

# Cloudera Manager Health Tests

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# CLUDERA

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## Cloudera Manager Health Tests

This section provides information on health tests supported by Cloudera Manager.

This section provides information on health tests supported by Cloudera Manager.



**Note:** Cloudera Manager provides monitoring of network port information at the Operating System level. The underlying network issues from the upper level of Big Data software cannot be resolved from the Cloudera Manager point of view. The frame error, if seen, requires you to contact the relevant network team for inspection and further action. Note that this kind of frame errors are typically related to hardware, such as server network port, network cable or related lines, switch ports, and pertinent items.

For more information, refer to these KB articles - [Cloudera Manager Monitoring Frame Error Bonded Network](#) and [CDH and Network Frame Errors](#).

There are two types of health tests:

- Pass-fail tests - there are two types:
  - Compare a property to a yes-no value. For example, whether a service or role started as expected, a DataNode is connected to its NameNode, or a TaskTracker is (or is not) blocked.
  - Exercise a service lightly to confirm it is working and responsive. HDFS (NameNode role), HBase, and ZooKeeper services perform these tests, which are referred to as "canary" tests.

Both types of pass-fail tests result in the health reported as being either Good or Bad.

- Metric tests - compare a property to a numeric value. For example, the number of file descriptors in use, the amount of disk space used or free, how much time spent in garbage collection, or how many pages were swapped to disk in the previous 15 minutes. In these tests the property is compared to a threshold that determine whether everything is Good, (for example, plenty of disk space available), whether it is Concerning (disk space getting low), or is Bad (a critically low amount of disk space).

By default most health tests are enabled and (if appropriate) configured with reasonable thresholds. You can modify threshold values by editing the monitoring properties under the entity's Configuration tab. You can also enable or disable individual or summary health tests, and in some cases specify what should be included in the calculation of overall health for the service, role instance, or host.



**Important:** Activity Monitor feature is not supported with Cloudera Manager. Note that when you load a backup of Cloudera Manager, you could come across the configuration settings of Activity Monitor.

## Active Database Health Tests

### Active Database Audit Pipeline Test

This Active Database health test checks that the Auditing for the Active Database role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Active Database process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Active Database host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Active Database monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Active Database File Descriptors**

This Active Database health test checks that the number of file descriptors used does not rise above some percentage of the Active Database file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Active Database monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

db\_active\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

## PERCENT

## Active Database Host Health

This Active Database health test factors in the health of the host upon which the Active Database is running. A failure of this test means that the host running the Active Database is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Active Database Host Health Test Active Database monitoring setting.

Short Name: Host Health

### Active Database Host Health Test

**Description**

When computing the overall Active Database health, consider the host's health.

**Template Name**

db\_active\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Active Database Process Status

This Active Database health test checks that the Cloudera Manager Agent on the Active Database host is heart beating correctly and that the process associated with the Active Database role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Active Database process, a lack of connectivity to the Cloudera Manager Agent on the Active Database host, or a problem with the Cloudera Manager Agent. This test can fail either because the Active Database has crashed or because the Active Database will not start or stop in a timely fashion. Check the Active Database logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Active Database host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Active Database host, or look in the Cloudera Manager Agent logs on the Active Database host for more details. This test can be enabled or disabled using the Active Database Process Health Test Active Database monitoring setting.

Short Name: Process Status

### Active Database Process Health Test

**Description**

Enables the health test that the Active Database's process state is consistent with the role configuration

**Template Name**

db\_active\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Active Database Swap Memory Usage

This Active Database health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Active Database Swap Memory Usage Rate Beta

This Active Database health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Active Database Unexpected Exits

This Active Database health test checks that the Active Database has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates

whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Active Database monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Active Key Trustee Server Health Tests

### Active Key Trustee Server Audit Pipeline Test

This Active Key Trustee Server health test checks that the Auditing for the Active Key Trustee Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Active Key Trustee Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Active Key Trustee Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Active Key Trustee Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**Active Key Trustee Server File Descriptors**

This Active Key Trustee Server health test checks that the number of file descriptors used does not rise above some percentage of the Active Key Trustee Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Active Key Trustee Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**`keytrustee_active_server_fd_thresholds`**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Active Key Trustee Server Host Health**



This Active Key Trustee Server health test factors in the health of the host upon which the Active Key Trustee Server is running. A failure of this test means that the host running the Active Key Trustee Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Active Key Trustee Server Host Health Test Active Key Trustee Server monitoring setting.

Short Name: Host Health

### Active Key Trustee Server Host Health Test

#### Description

When computing the overall Active Key Trustee Server health, consider the host's health.

#### Template Name

keytrustee\_active\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Active Key Trustee Server Log Directory Free Space

This Active Key Trustee Server health test checks that the filesystem containing the log directory of this Active Key Trustee Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Active Key Trustee Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Active Key Trustee Server Process Status

This Active Key Trustee Server health test checks that the Cloudera Manager Agent on the Active Key Trustee Server host is heart beating correctly and that the process associated with the Active Key Trustee Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Active Key Trustee Server process, a lack of connectivity to the Cloudera Manager Agent on the Active Key Trustee Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Active Key Trustee Server has crashed or because the Active Key Trustee Server will not start or stop in a timely fashion. Check the Active Key Trustee Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Active Key Trustee Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Active Key Trustee Server host, or look in the Cloudera Manager Agent logs on the Active Key Trustee Server host for more details. This test can be enabled or disabled using the Active Key Trustee Server Process Health Test Active Key Trustee Server monitoring setting.

Short Name: Process Status

### Active Key Trustee Server Process Health Test

#### Description

Enables the health test that the Active Key Trustee Server's process state is consistent with the role configuration

#### Template Name

`keytrustee_active_server_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Active Key Trustee Server Swap Memory Usage

This Active Key Trustee Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Active Key Trustee Server Swap Memory Usage Rate Beta

This Active Key Trustee Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Active Key Trustee Server Unexpected Exits

This Active Key Trustee Server health test checks that the Active Key Trustee Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Active Key Trustee Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Activity Monitor - Unsupported Since 7.0.0 Health Tests

### Activity Monitor - Unsupported Since 7.0.0 Activity Monitor Pipeline

This Activity Monitor - Unsupported Since 7.0.0 health test checks that no messages are being dropped by the activity monitor stage of the Activity Monitor - Unsupported Since 7.0.0 pipeline. A failure of this health test indicates a problem with the Activity Monitor - Unsupported Since 7.0.0. This may indicate a configuration problem or a bug in the Activity Monitor - Unsupported Since 7.0.0. This test can be configured using the Activity Monitor Activity Monitor Pipeline Monitoring Time Period monitoring setting.

Short Name: Activity Monitor Pipeline

#### Activity Monitor Activity Monitor Pipeline Monitoring Thresholds

**Description**

The health test thresholds for monitoring the Activity Monitor activity monitor pipeline. This specifies the number of dropped messages that will be tolerated over the monitoring time period.

**Template Name**

activitymonitor\_activity\_monitor\_pipeline\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

#### Activity Monitor Activity Monitor Pipeline Monitoring Time Period

**Description**

The time period over which the Activity Monitor activity monitor pipeline will be monitored for dropped messages.

**Template Name**

activitymonitor\_activity\_monitor\_pipeline\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Activity Monitor - Unsupported Since 7.0.0 Activity Tree Pipeline

This Activity Monitor - Unsupported Since 7.0.0 health test checks that no messages are being dropped by the activity tree stage of the Activity Monitor - Unsupported Since 7.0.0 pipeline. A failure of this health test indicates a problem with the Activity Monitor - Unsupported Since 7.0.0. This may indicate a configuration problem or a bug in the Activity Monitor - Unsupported Since 7.0.0. This test can be configured using the Activity Monitor Activity Tree Pipeline Monitoring Time Period monitoring setting.

Short Name: Activity Tree Pipeline

### Activity Monitor Activity Tree Pipeline Monitoring Thresholds

#### Description

The health test thresholds for monitoring the Activity Monitor activity tree pipeline. This specifies the number of dropped messages that will be tolerated over the monitoring time period.

#### Template Name

activitymonitor\_activity\_tree\_pipeline\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

### Activity Monitor Activity Tree Pipeline Monitoring Time Period

#### Description

The time period over which the Activity Monitor activity tree pipeline will be monitored for dropped messages.

#### Template Name

activitymonitor\_activity\_tree\_pipeline\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Activity Monitor - Unsupported Since 7.0.0 Audit Pipeline Test

This Activity Monitor - Unsupported Since 7.0.0 health test checks that the Auditing for the Activity Monitor - Unsupported Since 7.0.0 role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Activity Monitor - Unsupported Since 7.0.0 process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Activity Monitor - Unsupported Since 7.0.0 host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Activity Monitor - Unsupported Since 7.0.0 monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**Activity Monitor - Unsupported Since 7.0.0 Cloudera Manager Descriptor Age**

This is a Activity Monitor - Unsupported Since 7.0.0 health test that checks if the Cloudera Manager descriptor has been refreshed recently. The Cloudera Manager descriptor is used to pass configuration information from the Cloudera Manager Server to the Activity Monitor - Unsupported Since 7.0.0. If the descriptor becomes stale, Activity Monitor - Unsupported Since 7.0.0 operation may be impacted because the Activity Monitor - Unsupported Since 7.0.0 will receive information about new hosts, roles, and services, or changes to existing hosts, roles, and services. A stale descriptor usually indicates problems communicating with the Cloudera Manager Server but can also indicate performance problems or a bug. Consult the Activity Monitor - Unsupported Since 7.0.0 log and the Cloudera Manager Server log for more information. This test can be configured using the Cloudera Manager Descriptor Age Thresholds Cloudera Manager Activity Monitor - Unsupported Since 7.0.0 setting.

Short Name: Cloudera Manager Descriptor Age

**Cloudera Manager Descriptor Age Thresholds****Description**

The health test thresholds for monitoring the time since the Cloudera Manager descriptor was last refreshed.

**Template Name**

`scm_descriptor_age_thresholds`

**Default Value**

critical:120000.0, warning:60000.0

**Unit(s)**

no unit

**Activity Monitor - Unsupported Since 7.0.0 File Descriptors**

This Activity Monitor - Unsupported Since 7.0.0 health test checks that the number of file descriptors used does not rise above some percentage of the Activity Monitor - Unsupported Since 7.0.0 file descriptor limit. A failure of this

health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Activity Monitor - Unsupported Since 7.0.0 monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

activitymonitor\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Activity Monitor - Unsupported Since 7.0.0 Heap Dump Directory Free Space

This Activity Monitor - Unsupported Since 7.0.0 health test checks that the filesystem containing the heap dump directory of this Activity Monitor - Unsupported Since 7.0.0 has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Activity Monitor - Unsupported Since 7.0.0 monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Activity Monitor - Unsupported Since 7.0.0 Host Health

This Activity Monitor - Unsupported Since 7.0.0 health test factors in the health of the host upon which the Activity Monitor - Unsupported Since 7.0.0 is running. A failure of this test means that the host running the Activity Monitor - Unsupported Since 7.0.0 is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Activity Monitor - Unsupported Since 7.0.0 Host Health Test Activity Monitor - Unsupported Since 7.0.0 monitoring setting.

Short Name: Host Health

### Activity Monitor - Unsupported Since 7.0.0 Host Health Test

#### Description

When computing the overall Activity Monitor - Unsupported Since 7.0.0 health, consider the host's health.

#### Template Name

activitymonitor\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Activity Monitor - Unsupported Since 7.0.0 Log Directory Free Space

This Activity Monitor - Unsupported Since 7.0.0 health test checks that the filesystem containing the log directory of this Activity Monitor - Unsupported Since 7.0.0 has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Activity Monitor - Unsupported Since 7.0.0 monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never



**Unit(s)**

PERCENT

**Activity Monitor - Unsupported Since 7.0.0 Pause Duration**

This Activity Monitor - Unsupported Since 7.0.0 health test checks that the Activity Monitor - Unsupported Since 7.0.0 threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Activity Monitor - Unsupported Since 7.0.0 that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Activity Monitor - Unsupported Since 7.0.0 is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Activity Monitor - Unsupported Since 7.0.0 logs for any pause monitor output and check garbage collection metrics exposed by the Activity Monitor - Unsupported Since 7.0.0. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period Activity Monitor - Unsupported Since 7.0.0 monitoring settings.

Short Name: Pause Duration

**Pause Duration Monitoring Period****Description**

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

```
activitymonitor_pause_duration_window
```

**Default Value**

5

**Unit(s)**

MINUTES

**Pause Duration Thresholds****Description**

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

**Template Name**

```
activitymonitor_pause_duration_thresholds
```

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

**Activity Monitor - Unsupported Since 7.0.0 Process Status**

This Activity Monitor - Unsupported Since 7.0.0 health test checks that the Cloudera Manager Agent on the Activity Monitor - Unsupported Since 7.0.0 host is heart beating correctly and that the process associated with the Activity Monitor - Unsupported Since 7.0.0 role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Activity Monitor - Unsupported Since 7.0.0 process, a lack of connectivity to the Cloudera Manager Agent on the Activity Monitor - Unsupported Since 7.0.0 host, or a problem with the Cloudera Manager Agent. This test can fail either because the Activity Monitor - Unsupported Since 7.0.0 has crashed or because the Activity Monitor - Unsupported Since 7.0.0 will not start or stop in a timely fashion. Check the Activity Monitor - Unsupported Since 7.0.0 logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Activity Monitor - Unsupported Since 7.0.0 host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Activity Monitor - Unsupported Since 7.0.0

host, or look in the Cloudera Manager Agent logs on the Activity Monitor - Unsupported Since 7.0.0 host for more details. This test can be enabled or disabled using the Activity Monitor - Unsupported Since 7.0.0 Process Health Test Activity Monitor - Unsupported Since 7.0.0 monitoring setting.

Short Name: Process Status

### Activity Monitor - Unsupported Since 7.0.0 Process Health Test

#### Description

Enables the health test that the Activity Monitor - Unsupported Since 7.0.0's process state is consistent with the role configuration

#### Template Name

activitymonitor\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Activity Monitor - Unsupported Since 7.0.0 Swap Memory Usage

This Activity Monitor - Unsupported Since 7.0.0 health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Activity Monitor - Unsupported Since 7.0.0 Swap Memory Usage Rate Beta

This Activity Monitor - Unsupported Since 7.0.0 health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Activity Monitor - Unsupported Since 7.0.0 Unexpected Exits**

This Activity Monitor - Unsupported Since 7.0.0 health test checks that the Activity Monitor - Unsupported Since 7.0.0 has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Activity Monitor - Unsupported Since 7.0.0 monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Activity Monitor - Unsupported Since 7.0.0 Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Activity Monitor - Unsupported Since 7.0.0, a misconfiguration of the Activity Monitor - Unsupported Since 7.0.0, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Activity Monitor - Unsupported Since 7.0.0 for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Activity Monitor - Unsupported Since 7.0.0's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Activity Monitor - Unsupported Since 7.0.0's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Activity Monitor - Unsupported Since 7.0.0 monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

activitymonitor\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

activitymonitor\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Alert Publisher Health Tests

### Alert Publisher Audit Pipeline Test

This Alert Publisher health test checks that the Auditing for the Alert Publisher role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Alert Publisher process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Alert Publisher host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Alert Publisher monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Alert Publisher File Descriptors

This Alert Publisher health test checks that the number of file descriptors used does not rise above some percentage of the Alert Publisher file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Alert Publisher monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

alertpublisher\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Alert Publisher Heap Dump Directory Free Space

This Alert Publisher health test checks that the filesystem containing the heap dump directory of this Alert Publisher has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Alert Publisher monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Alert Publisher Host Health

This Alert Publisher health test factors in the health of the host upon which the Alert Publisher is running. A failure of this test means that the host running the Alert Publisher is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Alert Publisher Host Health Test Alert Publisher monitoring setting.

Short Name: Host Health

### Alert Publisher Host Health Test

**Description**

When computing the overall Alert Publisher health, consider the host's health.

**Template Name**

alertpublisher\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Alert Publisher Log Directory Free Space

This Alert Publisher health test checks that the filesystem containing the log directory of this Alert Publisher has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Alert Publisher monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Alert Publisher Process Status

This Alert Publisher health test checks that the Cloudera Manager Agent on the Alert Publisher host is heart beating correctly and that the process associated with the Alert Publisher role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Alert Publisher process, a lack of connectivity to the Cloudera Manager Agent on the Alert Publisher host, or a problem with the Cloudera Manager Agent. This test can fail either because the Alert Publisher has crashed or because the Alert Publisher will not start or stop in a timely fashion. Check the Alert Publisher logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Alert Publisher host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Alert Publisher host, or look in the Cloudera Manager Agent logs on the Alert Publisher host for more details. This test can be enabled or disabled using the Alert Publisher Process Health Test Alert Publisher monitoring setting.

Short Name: Process Status

### Alert Publisher Process Health Test

#### Description

Enables the health test that the Alert Publisher's process state is consistent with the role configuration

#### Template Name

alertpublisher\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Alert Publisher Swap Memory Usage

This Alert Publisher health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Alert Publisher Swap Memory Usage Rate Beta

This Alert Publisher health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES



### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Alert Publisher Unexpected Exits

This Alert Publisher health test checks that the Alert Publisher has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Alert Publisher monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Atlas Health Tests

### Atlas Server Health

This is a Atlas service-level health test that checks that enough of the Atlas Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Atlas Servers falls below a warning threshold, expressed as a percentage of the total number of Atlas Servers. The test returns "Bad" health if the number of healthy and "Concerning" Atlas Servers falls below a critical threshold, expressed as a percentage of the total number of Atlas Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Atlas Servers, this test would return "Good" health if 95 or more Atlas Servers have good health. This test would return "Concerning" health if at least 90 Atlas Servers have either "Good" or "Concerning" health. If more than 10 Atlas Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Atlas Servers. Check the status of the individual Atlas Servers for more information. This test can be configured using the Atlas Atlas service-wide monitoring setting.

Short Name: Atlas Server Health

### Healthy Atlas Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Atlas Server health. The check returns "Concerning" health if the percentage of "Healthy" Atlas Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Atlas Servers falls below the critical threshold.

#### Template Name

ATLAS\_ATLAS\_SERVER\_healthy\_thresholds

#### Default Value

critical:90.0, warning:99.0

#### Unit(s)

PERCENT

## Atlas Server Health Tests

### Atlas Server Atlas Server Canary

This is an Atlas server role-level status test that checks whether the Atlas Server's login page is reachable or not. A failure of this health test indicates that the Atlas Server is not fully functional. This test can be enabled or disabled using the Atlas Server Url Canary Enabled setting.

Short Name: Atlas Server Canary

### Atlas Server Audit Pipeline Test

This Atlas Server health test checks that the Auditing for the Atlas Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Atlas Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Atlas Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Atlas Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**Atlas Server File Descriptors**

This Atlas Server health test checks that the number of file descriptors used does not rise above some percentage of the Atlas Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Atlas Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**`atlas_server_fd_thresholds`**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Atlas Server Host Health

This Atlas Server health test factors in the health of the host upon which the Atlas Server is running. A failure of this test means that the host running the Atlas Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Atlas Server Host Health Test Atlas Server monitoring setting.

Short Name: Host Health

### Atlas Server Host Health Test

#### Description

When computing the overall Atlas Server health, consider the host's health.

#### Template Name

atlas\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Atlas Server Log Directory Free Space

This Atlas Server health test checks that the filesystem containing the log directory of this Atlas Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Atlas Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Atlas Server Process Status

This Atlas Server health test checks that the Cloudera Manager Agent on the Atlas Server host is heart beating correctly and that the process associated with the Atlas Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Atlas Server process, a lack of connectivity to the Cloudera Manager Agent on the Atlas Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Atlas Server has crashed or because the Atlas Server will not start or stop in a timely fashion. Check the Atlas Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Atlas Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Atlas Server host, or look in the Cloudera Manager Agent logs on the Atlas Server host for more details. This test can be enabled or disabled using the Atlas Server Process Health Test Atlas Server monitoring setting.

Short Name: Process Status

### Atlas Server Process Health Test

#### Description

Enables the health test that the Atlas Server's process state is consistent with the role configuration

#### Template Name

`atlas_server_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Atlas Server Swap Memory Usage

This Atlas Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Atlas Server Swap Memory Usage Rate Beta

This Atlas Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Atlas Server Unexpected Exits

This Atlas Server health test checks that the Atlas Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Atlas Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Authentication Server Health Tests

### Authentication Server Audit Pipeline Test

This Authentication Server health test checks that the Auditing for the Authentication Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Authentication Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Authentication Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Authentication Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

```
mgmt_navigator_failure_window
```

**Default Value**

```
20
```

**Unit(s)**

```
MINUTES
```

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

```
mgmt_navigator_failure_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
BYTES
```

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

```
mgmt_navigator_status_check_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## Authentication Server File Descriptors

This Authentication Server health test checks that the number of file descriptors used does not rise above some percentage of the Authentication Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Authentication Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

authserver\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Authentication Server Heap Dump Directory Free Space

This Authentication Server health test checks that the filesystem containing the heap dump directory of this Authentication Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Authentication Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.



**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Authentication Server Host Health

This Authentication Server health test factors in the health of the host upon which the Authentication Server is running. A failure of this test means that the host running the Authentication Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Authentication Server Host Health Test Authentication Server monitoring setting.

Short Name: Host Health

### Authentication Server Host Health Test

**Description**

When computing the overall Authentication Server health, consider the host's health.

**Template Name**

authserver\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Authentication Server Log Directory Free Space

This Authentication Server health test checks that the filesystem containing the log directory of this Authentication Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Authentication Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Authentication Server Process Status

This Authentication Server health test checks that the Cloudera Manager Agent on the Authentication Server host is heart beating correctly and that the process associated with the Authentication Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Authentication Server process, a lack of connectivity to the Cloudera Manager Agent on the Authentication Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Authentication Server has crashed or because the Authentication Server will not start or stop in a timely fashion. Check the Authentication Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Authentication Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Authentication Server host, or look in the Cloudera Manager Agent logs on the Authentication Server host for more details. This test can be enabled or disabled using the Authentication Server Process Health Test Authentication Server monitoring setting.

Short Name: Process Status

### Authentication Server Process Health Test

**Description**

Enables the health test that the Authentication Server's process state is consistent with the role configuration

**Template Name**

authserver\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Authentication Server Swap Memory Usage

This Authentication Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Authentication Server Swap Memory Usage Rate Beta

This Authentication Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Authentication Server Unexpected Exits

This Authentication Server health test checks that the Authentication Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Authentication Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Authentication Server Load Balancer Health Tests

### Authentication Server Load Balancer Audit Pipeline Test

This Authentication Server Load Balancer health test checks that the Auditing for the Authentication Server Load Balancer role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Authentication Server Load Balancer process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Authentication Server Load Balancer host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Authentication Server Load Balancer monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Authentication Server Load Balancer File Descriptors**

This Authentication Server Load Balancer health test checks that the number of file descriptors used does not rise above some percentage of the Authentication Server Load Balancer file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Authentication Server Load Balancer monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

auth\_load\_balancer\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Authentication Server Load Balancer Host Health**

This Authentication Server Load Balancer health test factors in the health of the host upon which the Authentication Server Load Balancer is running. A failure of this test means that the host running the Authentication Server Load Balancer is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Authentication Server Load Balancer Host Health Test Authentication Server Load Balancer monitoring setting.

Short Name: Host Health

**Authentication Server Load Balancer Host Health Test****Description**

When computing the overall Authentication Server Load Balancer health, consider the host's health.

**Template Name**

auth\_load\_balancer\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Authentication Server Load Balancer Log Directory Free Space

This Authentication Server Load Balancer health test checks that the filesystem containing the log directory of this Authentication Server Load Balancer has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Authentication Server Load Balancer monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Authentication Server Load Balancer Process Status

This Authentication Server Load Balancer health test checks that the Cloudera Manager Agent on the Authentication Server Load Balancer host is heart beating correctly and that the process associated with the Authentication Server Load Balancer role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Authentication Server Load Balancer process, a lack of connectivity to the Cloudera Manager Agent on the Authentication Server Load Balancer host, or a problem with the Cloudera Manager Agent. This test can fail either because the Authentication Server Load Balancer has crashed or because the Authentication Server Load Balancer will not start or stop in a timely fashion. Check the Authentication Server Load Balancer logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Authentication Server Load Balancer host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on

the Authentication Server Load Balancer host, or look in the Cloudera Manager Agent logs on the Authentication Server Load Balancer host for more details. This test can be enabled or disabled using the Authentication Server Load Balancer Process Health Test Authentication Server Load Balancer monitoring setting.

Short Name: Process Status

### Authentication Server Load Balancer Process Health Test

#### Description

Enables the health test that the Authentication Server Load Balancer's process state is consistent with the role configuration

#### Template Name

auth\_load\_balancer\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Authentication Server Load Balancer Swap Memory Usage

This Authentication Server Load Balancer health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Authentication Server Load Balancer Swap Memory Usage Rate Beta

This Authentication Server Load Balancer health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Authentication Server Load Balancer Unexpected Exits**

This Authentication Server Load Balancer health test checks that the Authentication Server Load Balancer has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Authentication Server Load Balancer monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit



## Authentication Service Health Tests

### Authentication Service Authentication Server Health

This is a Authentication Service service-level health test that checks that enough of the Authentication Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Authentication Servers falls below a warning threshold, expressed as a percentage of the total number of Authentication Servers. The test returns "Bad" health if the number of healthy and "Concerning" Authentication Servers falls below a critical threshold, expressed as a percentage of the total number of Authentication Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Authentication Servers, this test would return "Good" health if 95 or more Authentication Servers have good health. This test would return "Concerning" health if at least 90 Authentication Servers have either "Good" or "Concerning" health. If more than 10 Authentication Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Authentication Servers. Check the status of the individual Authentication Servers for more information. This test can be configured using the Authentication Service Authentication Service service-wide monitoring setting.

Short Name: Authentication Server Health

#### Healthy Authentication Server Monitoring Thresholds

##### Description

The health test thresholds of the overall Authentication Server health. The check returns "Concerning" health if the percentage of "Healthy" Authentication Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Authentication Servers falls below the critical threshold.

##### Template Name

auth\_authservers\_healthy\_thresholds

##### Default Value

critical:51.0, warning:99.0

##### Unit(s)

PERCENT

### Authentication Service Authentication Server Load Balancer Health

This is a Authentication Service service-level health test that checks that enough of the Authentication Server Load Balancers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Authentication Server Load Balancers falls below a warning threshold, expressed as a percentage of the total number of Authentication Server Load Balancers. The test returns "Bad" health if the number of healthy and "Concerning" Authentication Server Load Balancers falls below a critical threshold, expressed as a percentage of the total number of Authentication Server Load Balancers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Authentication Server Load Balancers, this test would return "Good" health if 95 or more Authentication Server Load Balancers have good health. This test would return "Concerning" health if at least 90 Authentication Server Load Balancers have either "Good" or "Concerning" health. If more than 10 Authentication Server Load Balancers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Authentication Server Load Balancers. Check the status of the individual Authentication Server Load Balancers for more information. This test can be configured using the Authentication Service Authentication Service service-wide monitoring setting.

Short Name: Authentication Server Load Balancer Health

#### Healthy Authentication Server Load Balancer Monitoring Thresholds

##### Description

The health test thresholds of the overall Authentication Server Load Balancer health. The check returns "Concerning" health if the percentage of "Healthy" Authentication Server Load Balancers

falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Authentication Server Load Balancers falls below the critical threshold.

**Template Name**

auth\_auth\_load\_balancers\_healthy\_thresholds

**Default Value**

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## Authentication Service Canary

This canary checks whether it is possible to log in to the Authentication Service. A failure of this check indicates that it will not be possible to log in to anything that uses the Authentication Service for single-sign-on. Look in the Authentication Service logs for more information.

Short Name: Authentication Service Canary

## Cloudera Management Service Health Tests

### Cloudera Management Service Activity Monitor - Unsupported Since 7.0.0 Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Activity Monitor - Unsupported Since 7.0.0. The test returns "Bad" health if the service is running and the Activity Monitor - Unsupported Since 7.0.0 is not running. In all other cases it returns the health of the Activity Monitor - Unsupported Since 7.0.0. A failure of this health test indicates a stopped or unhealthy Activity Monitor - Unsupported Since 7.0.0. Check the status of the Activity Monitor - Unsupported Since 7.0.0 for more information. This test can be enabled or disabled using the Activity Monitor - Unsupported Since 7.0.0 Role Health Test Activity Monitor - Unsupported Since 7.0.0 service-wide monitoring setting.

Short Name: Activity Monitor - Unsupported Since 7.0.0 Health

#### Activity Monitor - Unsupported Since 7.0.0 Role Health Test

**Description**

When computing the overall MGMT health, consider Activity Monitor - Unsupported Since 7.0.0's health

**Template Name**

mgmt\_activitymonitor\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

### Cloudera Management Service Alert Publisher Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Alert Publisher. The test returns "Bad" health if the service is running and the Alert Publisher is not running. In all other cases it returns the health of the Alert Publisher. A failure of this health test indicates a stopped or unhealthy Alert Publisher. Check the status of the Alert Publisher for more information. This test can be enabled or disabled using the Alert Publisher Role Health Test Alert Publisher service-wide monitoring setting.

Short Name: Alert Publisher Health

### Alert Publisher Role Health Test

#### Description

When computing the overall MGMT health, consider Alert Publisher's health

#### Template Name

mgmt\_alertpublisher\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Cloudera Management Service Certificate Expiration

This health test checks the expiry time of the TLS certificate for the Cloudera Manager Server. This test can be configured using the Cloudera Manager TLS Certificate Expiry Thresholds Cloudera Manager Service monitoring setting. This test alerts when the certificate is close to expiry.

Short Name: Certificate Expiration

### Cloudera Manager TLS Certificate Expiry Thresholds

#### Description

The health test thresholds for monitoring the certificate of Cloudera Manager Server.

#### Template Name

mgmt\_certificate\_expiry\_thresholds

#### Default Value

critical:7.0, warning:60.0

#### Unit(s)

DAYS

## Cloudera Management Service Cloudera Manager Server Clock Offset

This is a health test that checks if the clock offset between Cloudera Manager Server and Service Monitor is too large. This test can be configured using the Cloudera Manager Server Clock Offset Thresholds Cloudera Manager Service monitoring setting. This test calculates clock offset using the timestamp in messages that Cloudera Manager Server sends to Service Monitor and the timestamp when Service Monitor gets the messages. Check the NTP configuration on both Cloudera Manager Server and Service Monitor machines if this test fails.

Short Name: Cloudera Manager Server Clock Offset

### Cloudera Manager Server Clock Offset Thresholds

#### Description

The health test thresholds for monitoring the clock offset between the Cloudera Manager Server and the Service Monitor.

#### Template Name

mgmt\_clock\_offset\_with\_smon\_thresholds

#### Default Value

critical:60000.0, warning:30000.0

#### Unit(s)

MILLISECONDS

## Cloudera Management Service Cloudera Manager Server Cluster Availability

This health test checks the Cloudera Manager Server clusters availability. This test alerts when Cloudera Manager Server cluster does not have enough healthy nodes.

Short Name: Cloudera Manager Server Cluster Availability

### Cloudera Manager Server Cluster Availability Threshold Percents

#### Description

The health test thresholds for the Cloudera Manager Server Cluster Availability. Specify the minimum required percent of healthy and running CM cluster nodes.

#### Template Name

mgmt\_cm\_ha\_availability\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Cloudera Management Service Cloudera Manager Server Heap Size

This Cloudera Manager Server health test checks that the Cloudera Manager Server heap size is adequate for the it. Consider increasing the heap when it is in critical state A failure of this health test may indicate that the Cloudera Manager Server is not getting the optimal heap size. Inspect the Cloudera Manager Server logs for any pause monitor output, check garbage collection metrics exposed by the Cloudera Manager Server. This test can be configured using the Cloudera Management Service settings.

Short Name: Cloudera Manager Server Heap Size

### Cloudera Manager Server Heap Size Thresholds

#### Description

The health test thresholds for the Cloudera Manager Server heap usage.

#### Template Name

mgmt\_heap\_size\_thresholds

#### Default Value

critical:95.0, warning:90.0

#### Unit(s)

PERCENT

### Cloudera Management Service Cloudera Manager Server Pause Duration

This health test checks that the Cloudera Manager Server threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Cloudera Manager Server that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Cloudera Manager Server is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Cloudera Manager Server logs for any pause monitor output and check garbage collection metrics exposed by the Service Monitor. This test can be configured using the Cloudera Manager Server Pause Duration Thresholds and Cloudera Manager Server Pause Duration Monitoring Period Cloudera Manager Server settings.

Short Name: Cloudera Manager Server Pause Duration

### Cloudera Manager Server Pause Duration Monitoring Period

#### Description

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

mgmt\_pause\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Cloudera Manager Server Pause Duration Thresholds****Description**

The health test thresholds for the Cloudera Manager Server pause duration time.

**Template Name**

mgmt\_pause\_duration\_thresholds

**Default Value**

critical:5.0, warning:2.0

**Unit(s)**

PERCENT

**Cloudera Management Service Command Storage Directory Free Space**

This Command Storage Directory Free Space Monitoring Thresholds health test checks that the filesystem containing the directory used to store the Cloudera Manager Server's command data has sufficient space. This test can be configured using the Command Storage Directory Free Space Monitoring Thresholds Management Services monitoring settings. This directory can be changed by setting the Cloudera Manager Server Local Data Storage Directory path in Cloudera Manager settings.

Short Name: Command Storage Directory Free Space

**Cloudera Manager Server Local Data Storage Directory****Description**

Local path used by Cloudera Manager for storing data, including command result files. Note that changes to this configuration will only apply to commands started after the change. It is highly recommended that existing data be migrated over to the new location for the data to be accessible via and managed by Cloudera Manager.

**Template Name**

command\_storage\_path

**Default Value**

/var/lib/cloudera-scm-server

**Unit(s)**

no unit

**Command Storage Directory Free Space Monitoring Thresholds****Description**

The health test thresholds for monitoring the free space on the filesystem that contains the Cloudera Manager Server command storage directory.

**Template Name**

mgmt\_command\_storage\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:1.073741824E9, warning:2.147483648E9

**Unit(s)**

BYTES

## Cloudera Management Service Embedded Database Free Space

The embedded PostgreSQL database running on the Cloudera Manager Server host is using a partition with a small amount of free space. Typically, the data for this embedded PostgreSQL server is in `/var/lib/cloudera-scm-server-db`. Increase the available disk space or adjust the retention period of activity monitoring or auditing data. This test can be configured using the Embedded Database Free Space Monitoring Thresholds Management Services monitoring settings.

Short Name: Embedded Database Free Space

### Embedded Database Free Space Monitoring Thresholds

**Description**

The health test thresholds for monitoring the free space on the volume for the embedded PostgreSQL database optionally running on the Cloudera Manager Server. If the embedded database is not in use, this has no effect.

**Template Name**

mgmt\_embedded\_database\_free\_space\_absolute\_thresholds

**Default Value**

critical:1.073741824E9, warning:2.147483648E9

**Unit(s)**

BYTES

## Cloudera Management Service Event Server Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Event Server. The test returns "Bad" health if the service is running and the Event Server is not running. In all other cases it returns the health of the Event Server. A failure of this health test indicates a stopped or unhealthy Event Server. Check the status of the Event Server for more information. This test can be enabled or disabled using the Event Server Role Health Test Event Server service-wide monitoring setting.

Short Name: Event Server Health

### Event Server Role Health Test

**Description**

When computing the overall MGMT health, consider Event Server's health

**Template Name**

mgmt\_eventserver\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Cloudera Management Service Host Monitor Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Host Monitor. The test returns "Bad" health if the service is running and the Host Monitor is not running. In all other cases it returns the health of the Host Monitor. A failure of this health test indicates a stopped or unhealthy Host

Monitor. Check the status of the Host Monitor for more information. This test can be enabled or disabled using the Host Monitor Role Health Test Host Monitor service-wide monitoring setting.

Short Name: Host Monitor Health

### Host Monitor Role Health Test

#### Description

When computing the overall MGMT health, consider Host Monitor's health

#### Template Name

mgmt\_hostmonitor\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Cloudera Management Service KDC Server Connection Health

This health test checks the KDC Service Connection's Health. This test can be configured using the KDC Connection Health Check Enabled Cloudera Manager Service monitoring setting. This test alerts when connection to the KDC Server is slow or not available.

Short Name: KDC Server Connection Health

### Cloudera Manager KDC Server Connection Health Thresholds

#### Description

The health test thresholds for monitoring the KDC Server connection health by login time.

#### Template Name

kdc\_availability\_thresholds

#### Default Value

critical:2000.0, warning:1500.0

#### Unit(s)

MILLISECONDS

### KDC Connection Health Check Enabled

#### Description

Enable or disable Cloudera Manager KDC Server Connection Health Check execution. Restart Cloudera Manager Server to apply changes.

#### Template Name

kdc\_monitoring\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Cloudera Management Service LDAP Server Connection Health

This health test checks the LDAP Service Connection's Health. This test can be configured using the LDAP Connection Health Check Enabled Cloudera Manager Service monitoring setting. This test alerts when connection to the LDAP Server is slow or not available.

Short Name: LDAP Server Connection Health

### Cloudera Manager LDAP Monitoring Period

#### Description

The Period of the Cloudera Manager's LDAP Monitoring functionality.

#### Template Name

ldap\_monitoring\_period

#### Default Value

60000

#### Unit(s)

no unit

### Cloudera Manager LDAP Server Connection Health Thresholds

#### Description

The health test thresholds for monitoring the LDAP Server connection health by login time.

#### Template Name

ldap\_availability\_thresholds

#### Default Value

critical:2000.0, warning:1500.0

#### Unit(s)

MILLISECONDS

### LDAP Connection Health Check Enabled

#### Description

Enable or disable Cloudera Manager LDAP Server Connection Health Check execution. Restart Cloudera Manager Server to apply changes.

#### Template Name

ldap\_monitoring\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Cloudera Management Service Navigator Audit Server Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Navigator Audit Server. The test returns "Bad" health if the service is running and the Navigator Audit Server is not running. In all other cases it returns the health of the Navigator Audit Server. A failure of this health test indicates a stopped or unhealthy Navigator Audit Server. Check the status of the Navigator Audit Server for more information. This test can be enabled or disabled using the Navigator Audit Server Role Health Test Navigator Audit Server service-wide monitoring setting.

Short Name: Navigator Audit Server Health

### Navigator Audit Server Role Health Test

#### Description

When computing the overall MGMT health, consider Navigator Audit Server's health

#### Template Name



|                      |  |
|----------------------|--|
|                      | <code>mgmt_navigator_health_enabled</code> |
| <b>Default Value</b> | <code>true</code>                          |
| <b>Unit(s)</b>       | <code>no unit</code>                       |

## Cloudera Management Service Navigator Metadata Server Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Navigator Metadata Server. The test returns "Bad" health if the service is running and the Navigator Metadata Server is not running. In all other cases it returns the health of the Navigator Metadata Server. A failure of this health test indicates a stopped or unhealthy Navigator Metadata Server. Check the status of the Navigator Metadata Server for more information. This test can be enabled or disabled using the Navigator Metadata Server Role Health Test Navigator Metadata Server service-wide monitoring setting.

Short Name: Navigator Metadata Server Health

### Navigator Metadata Server Role Health Test

#### Description

When computing the overall MGMT health, consider Navigator Metadata Server's health

#### Template Name

`mgmt_navigatormetaserver_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Cloudera Management Service Reports Manager Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Reports Manager. The test returns "Bad" health if the service is running and the Reports Manager is not running. In all other cases it returns the health of the Reports Manager. A failure of this health test indicates a stopped or unhealthy Reports Manager. Check the status of the Reports Manager for more information. This test can be enabled or disabled using the Reports Manager Role Health Test Reports Manager service-wide monitoring setting.

Short Name: Reports Manager Health

### Reports Manager Role Health Test

#### Description

When computing the overall MGMT health, consider Reports Manager's health

#### Template Name

`mgmt_reportsmanager_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Cloudera Management Service Service Monitor Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Service Monitor. The test returns "Bad" health if the service is running and the Service Monitor is not running. In all other

cases it returns the health of the Service Monitor. A failure of this health test indicates a stopped or unhealthy Service Monitor. Check the status of the Service Monitor for more information. This test can be enabled or disabled using the Service Monitor Role Health Test Service Monitor service-wide monitoring setting.

Short Name: Service Monitor Health

### Service Monitor Role Health Test

#### Description

When computing the overall MGMT health, consider Service Monitor's health

#### Template Name

mgmt\_servicemonitor\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Cloudera Management Service Telemetry Publisher Health

This Cloudera Management Service service-level health test checks for the presence of a running, healthy Telemetry Publisher. The test returns "Bad" health if the service is running and the Telemetry Publisher is not running. In all other cases it returns the health of the Telemetry Publisher. A failure of this health test indicates a stopped or unhealthy Telemetry Publisher. Check the status of the Telemetry Publisher for more information. This test can be enabled or disabled using the Telemetry Publisher Role Health Test Telemetry Publisher service-wide monitoring setting.

Short Name: Telemetry Publisher Health

### Telemetry Publisher Role Health Test

#### Description

When computing the overall MGMT health, consider Telemetry Publisher's health

#### Template Name

mgmt\_telemetrypublisher\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Cruise Control Health Tests

### Cruise Control Server Health

This Cruise Control service-level health test checks for the presence of a running, healthy Cruise Control Server. The test returns "Bad" health if the service is running and the Cruise Control Server is not running. In all other cases it returns the health of the Cruise Control Server. A failure of this health test indicates a stopped or unhealthy Cruise Control Server. Check the status of the Cruise Control Server for more information. This test can be enabled or disabled using the Cruise Control Server Role Health Test Cruise Control Server service-wide monitoring setting.

Short Name: Cruise Control Server Health

### Cruise Control Server Role Health Test

#### Description

When computing the overall CRUISE\_CONTROL health, consider Cruise Control Server's health

**Template Name**

CRUISE\_CONTROL\_CRUISE\_CONTROL\_SERVER\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Cruise Control Server Health Tests

### Cruise Control Server Audit Pipeline Test

This Cruise Control Server health test checks that the Auditing for the Cruise Control Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Cruise Control Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Cruise Control Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Cruise Control Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Cruise Control Server File Descriptors

This Cruise Control Server health test checks that the number of file descriptors used does not rise above some percentage of the Cruise Control Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Cruise Control Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

cruise\_control\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Cruise Control Server Host Health

This Cruise Control Server health test factors in the health of the host upon which the Cruise Control Server is running. A failure of this test means that the host running the Cruise Control Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Cruise Control Server Host Health Test Cruise Control Server monitoring setting.

Short Name: Host Health

### Cruise Control Server Host Health Test

**Description**

When computing the overall Cruise Control Server health, consider the host's health.

**Template Name**

cruise\_control\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Cruise Control Server Log Directory Free Space

This Cruise Control Server health test checks that the filesystem containing the log directory of this Cruise Control Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute

Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Cruise Control Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Cruise Control Server Process Status

This Cruise Control Server health test checks that the Cloudera Manager Agent on the Cruise Control Server host is heart beating correctly and that the process associated with the Cruise Control Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Cruise Control Server process, a lack of connectivity to the Cloudera Manager Agent on the Cruise Control Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Cruise Control Server has crashed or because the Cruise Control Server will not start or stop in a timely fashion. Check the Cruise Control Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Cruise Control Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Cruise Control Server host, or look in the Cloudera Manager Agent logs on the Cruise Control Server host for more details. This test can be enabled or disabled using the Cruise Control Server Process Health Test Cruise Control Server monitoring setting.

Short Name: Process Status

### Cruise Control Server Process Health Test

#### Description

Enables the health test that the Cruise Control Server's process state is consistent with the role configuration

#### Template Name

cruise\_control\_server\_scm\_health\_enabled

#### Default Value

true

**Unit(s)**

no unit

## Cruise Control Server Swap Memory Usage

This Cruise Control Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## Cruise Control Server Swap Memory Usage Rate Beta

This Cruise Control Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

**Unit(s)**

MINUTES

## Cruise Control Server Unexpected Exits

This Cruise Control Server health test checks that the Cruise Control Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Cruise Control Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## DOCKER Health Tests

### DOCKER Docker Registry Canary

Check Docker Registry for problems.

Short Name: Docker Registry Canary

### DOCKER Docker Server Health

This is a DOCKER service-level health test that checks that enough of the Docker Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Docker Servers falls below a warning threshold, expressed as a percentage of the total number of Docker Servers. The test returns "Bad" health if the number of healthy and "Concerning" Docker Servers falls below a critical threshold, expressed as a percentage of the total

number of Docker Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Docker Servers, this test would return "Good" health if 95 or more Docker Servers have good health. This test would return "Concerning" health if at least 90 Docker Servers have either "Good" or "Concerning" health. If more than 10 Docker Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Docker Servers. Check the status of the individual Docker Servers for more information. This test can be configured using the DOCKER DOCKER service-wide monitoring setting.

Short Name: Docker Server Health

### Healthy Docker Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Docker Server health. The check returns "Concerning" health if the percentage of "Healthy" Docker Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Docker Servers falls below the critical threshold.

#### Template Name

docker\_docker\_servers\_healthy\_thresholds

#### Default Value

critical:90.0, warning:95.0

#### Unit(s)

PERCENT

## Data Analytics Studio Eventprocessor Health Tests

### Data Analytics Studio Eventprocessor Audit Pipeline Test

This Data Analytics Studio Eventprocessor health test checks that the Auditing for the Data Analytics Studio Eventprocessor role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Data Analytics Studio Eventprocessor process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Data Analytics Studio Eventprocessor host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Data Analytics Studio Eventprocessor monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description



The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**Data Analytics Studio Eventprocessor File Descriptors**

This Data Analytics Studio Eventprocessor health test checks that the number of file descriptors used does not rise above some percentage of the Data Analytics Studio Eventprocessor file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Data Analytics Studio Eventprocessor monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`das_event_processor_fd_thresholds`

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Data Analytics Studio Eventprocessor Host Health**

This Data Analytics Studio Eventprocessor health test factors in the health of the host upon which the Data Analytics Studio Eventprocessor is running. A failure of this test means that the host running the Data Analytics Studio Eventprocessor is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Data Analytics Studio Eventprocessor Host Health Test Data Analytics Studio Eventprocessor monitoring setting.

Short Name: Host Health

### Data Analytics Studio Eventprocessor Host Health Test

#### Description

When computing the overall Data Analytics Studio Eventprocessor health, consider the host's health.

#### Template Name

das\_event\_processor\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Data Analytics Studio Eventprocessor Log Directory Free Space

This Data Analytics Studio Eventprocessor health test checks that the filesystem containing the log directory of this Data Analytics Studio Eventprocessor has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Data Analytics Studio Eventprocessor monitoring settings.

Short Name: Log Directory Free Space

#### Log Directory Free Space Monitoring Absolute Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

##### Template Name

log\_directory\_free\_space\_absolute\_thresholds

##### Default Value

critical:5.36870912E9, warning:1.073741824E10

##### Unit(s)

BYTES

#### Log Directory Free Space Monitoring Percentage Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

##### Template Name

log\_directory\_free\_space\_percentage\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

PERCENT

### Data Analytics Studio Eventprocessor Process Status

This Data Analytics Studio Eventprocessor health test checks that the Cloudera Manager Agent on the Data Analytics Studio Eventprocessor host is heart beating correctly and that the process associated with the Data Analytics Studio Eventprocessor role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Data Analytics Studio Eventprocessor process, a lack of connectivity to the Cloudera Manager Agent on the Data Analytics Studio Eventprocessor host, or a problem with the Cloudera Manager Agent. This test can fail either

because the Data Analytics Studio Eventprocessor has crashed or because the Data Analytics Studio Eventprocessor will not start or stop in a timely fashion. Check the Data Analytics Studio Eventprocessor logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Data Analytics Studio Eventprocessor host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Data Analytics Studio Eventprocessor host, or look in the Cloudera Manager Agent logs on the Data Analytics Studio Eventprocessor host for more details. This test can be enabled or disabled using the Data Analytics Studio Eventprocessor Process Health Test Data Analytics Studio Eventprocessor monitoring setting.

Short Name: Process Status

### Data Analytics Studio Eventprocessor Process Health Test

#### Description

Enables the health test that the Data Analytics Studio Eventprocessor's process state is consistent with the role configuration

#### Template Name

`das_event_processor_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

no unit

### Data Analytics Studio Eventprocessor Swap Memory Usage

This Data Analytics Studio Eventprocessor health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

BYTES

### Data Analytics Studio Eventprocessor Swap Memory Usage Rate Beta

This Data Analytics Studio Eventprocessor health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Data Analytics Studio Eventprocessor Unexpected Exits**

This Data Analytics Studio Eventprocessor health test checks that the Data Analytics Studio Eventprocessor has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Data Analytics Studio Eventprocessor monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Data Analytics Studio Webapp Server Health Tests

### Data Analytics Studio Webapp Server Audit Pipeline Test

This Data Analytics Studio Webapp Server health test checks that the Auditing for the Data Analytics Studio Webapp Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Data Analytics Studio Webapp Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Data Analytics Studio Webapp Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Data Analytics Studio Webapp Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

|                |         |
|----------------|---------|
|                | true    |
| <b>Unit(s)</b> | no unit |

## Data Analytics Studio Webapp Server File Descriptors

This Data Analytics Studio Webapp Server health test checks that the number of file descriptors used does not rise above some percentage of the Data Analytics Studio Webapp Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Data Analytics Studio Webapp Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

das\_webapp\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Data Analytics Studio Webapp Server Host Health

This Data Analytics Studio Webapp Server health test factors in the health of the host upon which the Data Analytics Studio Webapp Server is running. A failure of this test means that the host running the Data Analytics Studio Webapp Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Data Analytics Studio Webapp Server Host Health Test Data Analytics Studio Webapp Server monitoring setting.

Short Name: Host Health

### Data Analytics Studio Webapp Server Host Health Test

#### Description

When computing the overall Data Analytics Studio Webapp Server health, consider the host's health.

#### Template Name

das\_webapp\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Data Analytics Studio Webapp Server Log Directory Free Space

This Data Analytics Studio Webapp Server health test checks that the filesystem containing the log directory of this Data Analytics Studio Webapp Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Data Analytics Studio Webapp Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Data Analytics Studio Webapp Server Process Status

This Data Analytics Studio Webapp Server health test checks that the Cloudera Manager Agent on the Data Analytics Studio Webapp Server host is heart beating correctly and that the process associated with the Data Analytics Studio Webapp Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Data Analytics Studio Webapp Server process, a lack of connectivity to the Cloudera Manager Agent on the Data Analytics Studio Webapp Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Data Analytics Studio Webapp Server has crashed or because the Data Analytics Studio Webapp Server will not start or stop in a timely fashion. Check the Data Analytics Studio Webapp Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Data Analytics Studio Webapp Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Data Analytics Studio Webapp Server host, or look in the Cloudera Manager Agent logs on the Data Analytics Studio Webapp Server host for more details. This test can be enabled or disabled using the Data Analytics Studio Webapp Server Process Health Test Data Analytics Studio Webapp Server monitoring setting.

Short Name: Process Status

### Data Analytics Studio Webapp Server Process Health Test

#### Description

Enables the health test that the Data Analytics Studio Webapp Server's process state is consistent with the role configuration

#### Template Name

das\_webapp\_scm\_health\_enabled

#### Default Value

true

**Unit(s)**

no unit

## Data Analytics Studio Webapp Server Swap Memory Usage

This Data Analytics Studio Webapp Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

BYTES

## Data Analytics Studio Webapp Server Swap Memory Usage Rate Beta

This Data Analytics Studio Webapp Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

5

**Unit(s)**



MINUTES

## Data Analytics Studio Webapp Server Unexpected Exits

This Data Analytics Studio Webapp Server health test checks that the Data Analytics Studio Webapp Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Data Analytics Studio Webapp Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Data Discovery Service Agent Health Tests

### Data Discovery Service Agent Audit Pipeline Test

This Data Discovery Service Agent health test checks that the Auditing for the Data Discovery Service Agent role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Data Discovery Service Agent process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Data Discovery Service Agent host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Data Discovery Service Agent monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Data Discovery Service Agent File Descriptors

This Data Discovery Service Agent health test checks that the number of file descriptors used does not rise above some percentage of the Data Discovery Service Agent file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Data Discovery Service Agent monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

data\_discovery\_service\_agent\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Data Discovery Service Agent Host Health

This Data Discovery Service Agent health test factors in the health of the host upon which the Data Discovery Service Agent is running. A failure of this test means that the host running the Data Discovery Service Agent is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Data Discovery Service Agent Host Health Test Data Discovery Service Agent monitoring setting.

Short Name: Host Health

### Data Discovery Service Agent Host Health Test

**Description**

When computing the overall Data Discovery Service Agent health, consider the host's health.

**Template Name**

```
data_discovery_service_agent_host_health_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## Data Discovery Service Agent Log Directory Free Space

This Data Discovery Service Agent health test checks that the filesystem containing the log directory of this Data Discovery Service Agent has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Data Discovery Service Agent monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

```
log_directory_free_space_absolute_thresholds
```

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

```
log_directory_free_space_percentage_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
PERCENT
```

## Data Discovery Service Agent Process Status

This Data Discovery Service Agent health test checks that the Cloudera Manager Agent on the Data Discovery Service Agent host is heart beating correctly and that the process associated with the Data Discovery Service Agent role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Data Discovery Service Agent process, a lack of connectivity to the Cloudera Manager Agent on the Data Discovery Service Agent host, or a problem with the Cloudera Manager Agent. This test can fail either because the Data Discovery Service Agent has crashed or because the Data Discovery Service Agent will not start or stop in a timely fashion. Check the Data Discovery Service Agent logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Data Discovery Service Agent host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Data Discovery Service Agent host, or look in the Cloudera Manager Agent logs on the Data Discovery Service Agent host for more details. This test can be enabled or disabled using the Data Discovery Service Agent Process Health Test Data Discovery Service Agent monitoring setting.

Short Name: Process Status

### Data Discovery Service Agent Process Health Test

**Description**

Enables the health test that the Data Discovery Service Agent's process state is consistent with the role configuration

**Template Name**

```
data_discovery_service_agent_scm_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Data Discovery Service Agent Swap Memory Usage

This Data Discovery Service Agent health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

BYTES

## Data Discovery Service Agent Swap Memory Usage Rate Beta

This Data Discovery Service Agent health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Data Discovery Service Agent Unexpected Exits

This Data Discovery Service Agent health test checks that the Data Discovery Service Agent has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Data Discovery Service Agent monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

|   |
|---|
| 5   |
| <b>Unit(s)</b>  |
| MINUTES   |
| <b>Unexpected Exits Thresholds</b>  |
| <b>Description</b>  |
| The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected_exits_window configuration for the role. |
| <b>Template Name</b>  |
| unexpected_exits_thresholds   |
| <b>Default Value</b>  |
| critical:any, warning:never   |
| <b>Unit(s)</b>  |
| no unit   |

## DataNode Health Tests

### DataNode Audit Pipeline Test

This DataNode health test checks that the Auditing for the DataNode role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of DataNode process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the DataNode host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check DataNode monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

|   |
|---|
| <b>Description</b>  |
| The period to review when checking if audits are blocked and not getting processed. |
| <b>Template Name</b>  |
| mgmt_navigator_failure_window   |
| <b>Default Value</b>  |
| 20  |
| <b>Unit(s)</b>  |
| MINUTES   |

#### Navigator Audit Failure Thresholds

|  |
|--|
| <b>Description</b>   |
| The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt_navigator_failure_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server. |
| <b>Template Name</b>   |
| mgmt_navigator_failure_thresholds  |
| <b>Default Value</b>   |
| critical:any, warning:never  |

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**DataNode Block Count**

This is a DataNode health test that checks for whether the DataNode has too many blocks. Having too many blocks on a DataNode may affect the DataNode's performance. A DataNode with a large number of blocks will require a larger java heap and may experience longer garbage collection pauses. Additionally, a large number of blocks may be an indicator of the presence of many small files. HDFS is not optimized for dealing with many small files, and processing times may suffer when operating across many small files. If only some DataNodes have a high number of blocks, running the HDFS Rebalance command may address this issue by moving data between DataNodes. If the HDFS Rebalance command reports the cluster as balanced without fixing the block imbalance then the problem is related to the presence of many small files. Consult the HDFS documentation for best-practices on addressing this issue. If many small files is not a concern for your use case, consider disabling this health test. If all DataNodes have a high number of blocks and the issue is not related to small files, additional DataNodes should be added. This test can be configured using the DataNode Block Count Thresholds DataNode monitoring setting.

Short Name: Block Count

**DataNode Block Count Thresholds****Description**

The health test thresholds of the number of blocks on a DataNode

**Template Name**

datanode\_block\_count\_thresholds

**Default Value**

CDH=[[CDH 4.0.0..CDH 4.5.0)=critical:never, warning:200000.0, [CDH 4.5.0..CDH 6.0.0)=critical:never, warning:500000.0, [CDH 6.0.0..CDH 8.0.0)=critical:never, warning:1000000.0]

**Unit(s)**

no unit

**DataNode Data Directory Status**

This is a DataNode health test that checks for whether the DataNode has reported any failed volumes. A failure of this health test indicates that there is a problem with one or more volumes on the DataNode. See the DataNode system for more information. This test can be configured using the DataNode Volume Failures Thresholds DataNode monitoring setting.

Short Name: Data Directory Status

### DataNode Volume Failures Thresholds

#### Description

The health test thresholds of failed volumes in a DataNode.

#### Template Name

datanode\_volume\_failures\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

### DataNode DataNode Data Directory Free Space

This is a DataNode health test that checks that the filesystem containing the DataNode Data Directory of this DataNode has sufficient free space. See the DataNode Data Directory description on the DataNode configuration page for more information on this directory type. This test can be configured using the DataNode Data Directory Free Space Monitoring Absolute Thresholds and DataNode Data Directory Free Space Monitoring Percentage Thresholds DataNode monitoring settings.

Short Name: DataNode Data Directory Free Space

### DataNode Data Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's DataNode Data Directory.

#### Template Name

datanode\_data\_directories\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### DataNode Data Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's DataNode Data Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a DataNode Data Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

datanode\_data\_directories\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### DataNode File Descriptors

This DataNode health test checks that the number of file descriptors used does not rise above some percentage of the DataNode file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds DataNode monitoring setting.



Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

datanode\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### DataNode Free Space

This is a DataNode health test that checks that the amount of free space available for HDFS block data on the DataNode does not fall below some percentage of total configured capacity of the DataNode. A failure of this health test may indicate a capacity planning problem. Try adding more disk capacity and additional data directories to the DataNode, or add additional DataNodes and take steps to rebalance your HDFS cluster. This test can be configured using the DataNode Free Space Monitoring Thresholds DataNode monitoring setting.

Short Name: Free Space

### DataNode Free Space Monitoring Thresholds

#### Description

The health test thresholds of free space in a DataNode. Specified as a percentage of the capacity on the DataNode.

#### Template Name

datanode\_free\_space\_thresholds

#### Default Value

critical:10.0, warning:20.0

#### Unit(s)

PERCENT

### DataNode Heap Dump Directory Free Space

This DataNode health test checks that the filesystem containing the heap dump directory of this DataNode has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds DataNode monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Heap Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**DataNode Host Health**

This DataNode health test factors in the health of the host upon which the DataNode is running. A failure of this test means that the host running the DataNode is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the DataNode Host Health Test DataNode monitoring setting.

Short Name: Host Health

**DataNode Host Health Test****Description**

When computing the overall DataNode health, consider the host's health.

**Template Name**

datanode\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**DataNode Log Directory Free Space**

This DataNode health test checks that the filesystem containing the log directory of this DataNode has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds DataNode monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**DataNode NameNode Connectivity**

This is a DataNode health test that checks that all the running NameNodes in the HDFS service consider the DataNode alive. A failure of this health test may indicate that the DataNode is having trouble communicating with some or all NameNodes in the service. Look in the DataNode logs for more details. This test can be enabled or disabled using the DataNode Connectivity Health Test DataNode monitoring setting. The DataNode Connectivity Tolerance at Startup DataNode monitoring setting and the Health Test Startup Tolerance NameNode monitoring setting can be used to control the test's tolerance windows around DataNode and NameNode restarts respectively.

Short Name: NameNode Connectivity

**DataNode Connectivity Health Test****Description**

Enables the health test that verifies the DataNode is connected to the NameNode

**Template Name**

datanode\_connectivity\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**DataNode Connectivity Tolerance at Startup****Description**

The amount of time to wait for the DataNode to fully start up and connect to the NameNode before enforcing the connectivity check.

**Template Name**

datanode\_connectivity\_tolerance

**Default Value**

180

**Unit(s)**

SECONDS

**Health Test Startup Tolerance****Description**

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

**Template Name**

namenode\_startup\_tolerance

**Default Value**

5

**Unit(s)**

MINUTES

## DataNode Pause Duration

This DataNode health test checks that the DataNode threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the DataNode that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the DataNode is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the DataNode logs for any pause monitor output and check garbage collection metrics exposed by the DataNode. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period DataNode monitoring settings.

Short Name: Pause Duration

### Pause Duration Monitoring Period

**Description**

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

datanode\_pause\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Pause Duration Thresholds

**Description**

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

**Template Name**

datanode\_pause\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## DataNode Process Status

This DataNode health test checks that the Cloudera Manager Agent on the DataNode host is heart beating correctly and that the process associated with the DataNode role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the DataNode process, a lack of connectivity to the Cloudera Manager Agent on the DataNode host, or a problem with the Cloudera Manager Agent. This test can fail either because the DataNode

has crashed or because the DataNode will not start or stop in a timely fashion. Check the DataNode logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the DataNode host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the DataNode host, or look in the Cloudera Manager Agent logs on the DataNode host for more details. This test can be enabled or disabled using the DataNode Process Health Test DataNode monitoring setting.

Short Name: Process Status

### DataNode Process Health Test

#### Description

Enables the health test that the DataNode's process state is consistent with the role configuration

#### Template Name

`datanode_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### DataNode Swap Memory Usage

This DataNode health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### DataNode Swap Memory Usage Rate Beta

This DataNode health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**DataNode Transceiver Usage**

This is a DataNode health test that checks for whether the DataNode transceivers usage is nearing the configured transceivers limit. A transceiver is a thread used to transfer data into or out of the DataNode. If a DataNode hits its transceivers limit, HDFS reads and writes begin to fail. This test can be configured using the DataNode Transceivers Usage Thresholds DataNode monitoring setting. The Maximum Number of Transfer Threads DataNode setting controls the DataNode transceivers limit.

Short Name: Transceiver Usage

**DataNode Transceivers Usage Thresholds****Description**

The health test thresholds of transceivers usage in a DataNode. Specified as a percentage of the total configured number of transceivers.

**Template Name**

datanode\_transceivers\_usage\_thresholds

**Default Value**

critical:95.0, warning:75.0

**Unit(s)**

PERCENT

**Maximum Number of Transfer Threads****Description**

Specifies the maximum number of threads to use for transferring data in and out of the DataNode.

**Template Name**

dfs\_datanode\_max\_xcievers

**Default Value**

4096

**Unit(s)**

no unit

**DataNode Unexpected Exits**

This DataNode health test checks that the DataNode has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period DataNode monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## DataNode Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the DataNode, a misconfiguration of the DataNode, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the DataNode for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the DataNode's web server are failing or timing out. If the test's failure message indicates an unexpected response, the DataNode's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection DataNode monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

datanode\_web\_metric\_collection\_enabled

#### Default Value

|                |         |
|----------------|---------|
|                | true    |
| <b>Unit(s)</b> | no unit |

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

datanode\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Docker Server Health Tests

### Docker Server Audit Pipeline Test

This Docker Server health test checks that the Auditing for the Docker Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Docker Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Docker Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Docker Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)



BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Docker Server File Descriptors**

This Docker Server health test checks that the number of file descriptors used does not rise above some percentage of the Docker Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Docker Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

docker\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Docker Server Heap Dump Directory Free Space**

This Docker Server health test checks that the filesystem containing the heap dump directory of this Docker Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Docker Server monitoring settings.

Short Name: Heap Dump Directory Free Space

**Heap Dump Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Heap Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Docker Server Host Health**

This Docker Server health test factors in the health of the host upon which the Docker Server is running. A failure of this test means that the host running the Docker Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Docker Server Host Health Test Docker Server monitoring setting.

Short Name: Host Health

**Docker Server Host Health Test****Description**

When computing the overall Docker Server health, consider the host's health.

**Template Name**

docker\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Docker Server Log Directory Free Space**

This Docker Server health test checks that the filesystem containing the log directory of this Docker Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Docker Server monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Docker Server Process Status**

This Docker Server health test checks that the Cloudera Manager Agent on the Docker Server host is heart beating correctly and that the process associated with the Docker Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Docker Server process, a lack of connectivity to the Cloudera Manager Agent on the Docker Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Docker Server has crashed or because the Docker Server will not start or stop in a timely fashion. Check the Docker Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Docker Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Docker Server host, or look in the Cloudera Manager Agent logs on the Docker Server host for more details. This test can be enabled or disabled using the Docker Server Process Health Test Docker Server monitoring setting.

Short Name: Process Status

**Docker Server Process Health Test****Description**

Enables the health test that the Docker Server's process state is consistent with the role configuration

**Template Name**

docker\_server\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Docker Server Swap Memory Usage**

This Docker Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

**Process Swap Memory Thresholds****Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Docker Server Swap Memory Usage Rate Beta

This Docker Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Docker Server Unexpected Exits

This Docker Server health test checks that the Docker Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Docker Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## ECS Health Tests

### ECS Control Plane Health

Check Control Plane health status.

Short Name: Control Plane Health

### ECS Ecs Agent Health

This is a ECS service-level health test that checks that enough of the Ecs Agents in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ecs Agents falls below a warning threshold, expressed as a percentage of the total number of Ecs Agents. The test returns "Bad" health if the number of healthy and "Concerning" Ecs Agents falls below a critical threshold, expressed as a percentage of the total number of Ecs Agents. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ecs Agents, this test would return "Good" health if 95 or more Ecs Agents have good health. This test would return "Concerning" health if at least 90 Ecs Agents have either "Good" or "Concerning" health. If more than 10 Ecs Agents have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ecs Agents. Check the status of the individual Ecs Agents for more information. This test can be configured using the ECS ECS service-wide monitoring setting.

Short Name: Ecs Agent Health

### Healthy Ecs Agent Monitoring Thresholds

**Description**

The health test thresholds of the overall Ecs Agent health. The check returns "Concerning" health if the percentage of "Healthy" Ecs Agents falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ecs Agents falls below the critical threshold.

**Template Name**

```
ecs_ecs_agents_healthy_thresholds
```

**Default Value**

```
critical:90.0, warning:95.0
```

**Unit(s)**

```
PERCENT
```

## ECS Ecs Server Health

This is a ECS service-level health test that checks that enough of the Ecs Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ecs Servers falls below a warning threshold, expressed as a percentage of the total number of Ecs Servers. The test returns "Bad" health if the number of healthy and "Concerning" Ecs Servers falls below a critical threshold, expressed as a percentage of the total number of Ecs Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ecs Servers, this test would return "Good" health if 95 or more Ecs Servers have good health. This test would return "Concerning" health if at least 90 Ecs Servers have either "Good" or "Concerning" health. If more than 10 Ecs Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ecs Servers. Check the status of the individual Ecs Servers for more information. This test can be configured using the ECS ECS service-wide monitoring setting.

Short Name: Ecs Server Health

### Healthy Ecs Server Monitoring Thresholds

**Description**

The health test thresholds of the overall Ecs Server health. The check returns "Concerning" health if the percentage of "Healthy" Ecs Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ecs Servers falls below the critical threshold.

**Template Name**

```
ecs_ecs_servers_healthy_thresholds
```

**Default Value**

```
critical:90.0, warning:95.0
```

**Unit(s)**

```
PERCENT
```

## ECS Infrastructure Prometheus Health

Check Infra Prometheus health status.

Short Name: Infrastructure Prometheus Health

## ECS Kubernetes Health

Check Kubernetes Components for health status.

Short Name: Kubernetes Health

## ECS Longhorn Health

Check Longhorn health status.

Short Name: Longhorn Health

## ECS Vault Health

Check Vault health status.

Short Name: Vault Health

## Ecs Agent Health Tests

### Ecs Agent Audit Pipeline Test

This Ecs Agent health test checks that the Auditing for the Ecs Agent role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ecs Agent process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ecs Agent host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ecs Agent monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## Ecs Agent File Descriptors

This Ecs Agent health test checks that the number of file descriptors used does not rise above some percentage of the Ecs Agent file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ecs Agent monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

ecs\_agent\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Ecs Agent Heap Dump Directory Free Space

This Ecs Agent health test checks that the filesystem containing the heap dump directory of this Ecs Agent has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Ecs Agent monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT



## Ecs Agent Host Health

This Ecs Agent health test factors in the health of the host upon which the Ecs Agent is running. A failure of this test means that the host running the Ecs Agent is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ecs Agent Host Health Test Ecs Agent monitoring setting.

Short Name: Host Health

### Ecs Agent Host Health Test

#### Description

When computing the overall Ecs Agent health, consider the host's health.

#### Template Name

ecs\_agent\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ecs Agent Log Directory Free Space

This Ecs Agent health test checks that the filesystem containing the log directory of this Ecs Agent has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ecs Agent monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Ecs Agent Process Status

This Ecs Agent health test checks that the Cloudera Manager Agent on the Ecs Agent host is heart beating correctly and that the process associated with the Ecs Agent role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ecs Agent process, a lack of connectivity to the Cloudera Manager Agent on the Ecs Agent host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ecs Agent has crashed or because the Ecs Agent will not start or stop in a timely fashion. Check the Ecs Agent logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ecs Agent host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ecs Agent host, or look in the Cloudera Manager Agent logs on the Ecs Agent host for more details. This test can be enabled or disabled using the Ecs Agent Process Health Test Ecs Agent monitoring setting.

Short Name: Process Status

### Ecs Agent Process Health Test

#### Description

Enables the health test that the Ecs Agent's process state is consistent with the role configuration

#### Template Name

`ecs_agent_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Ecs Agent Swap Memory Usage

This Ecs Agent health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Ecs Agent Swap Memory Usage Rate Beta

This Ecs Agent health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Ecs Agent Unexpected Exits**

This Ecs Agent health test checks that the Ecs Agent has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ecs Agent monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Ecs Server Health Tests

### Ecs Server Audit Pipeline Test

This Ecs Server health test checks that the Auditing for the Ecs Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ecs Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ecs Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ecs Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

**Unit(s)**

no unit

## Ecs Server File Descriptors

This Ecs Server health test checks that the number of file descriptors used does not rise above some percentage of the Ecs Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ecs Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

ecs\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Ecs Server Heap Dump Directory Free Space

This Ecs Server health test checks that the filesystem containing the heap dump directory of this Ecs Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Ecs Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Ecs Server Host Health

This Ecs Server health test factors in the health of the host upon which the Ecs Server is running. A failure of this test means that the host running the Ecs Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ecs Server Host Health Test Ecs Server monitoring setting.

Short Name: Host Health

### Ecs Server Host Health Test

#### Description

When computing the overall Ecs Server health, consider the host's health.

#### Template Name

ecs\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ecs Server Log Directory Free Space

This Ecs Server health test checks that the filesystem containing the log directory of this Ecs Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ecs Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

**Unit(s)**

PERCENT

## Ecs Server Process Status

This Ecs Server health test checks that the Cloudera Manager Agent on the Ecs Server host is heart beating correctly and that the process associated with the Ecs Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ecs Server process, a lack of connectivity to the Cloudera Manager Agent on the Ecs Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ecs Server has crashed or because the Ecs Server will not start or stop in a timely fashion. Check the Ecs Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ecs Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ecs Server host, or look in the Cloudera Manager Agent logs on the Ecs Server host for more details. This test can be enabled or disabled using the Ecs Server Process Health Test Ecs Server monitoring setting.

Short Name: Process Status

### Ecs Server Process Health Test

**Description**

Enables the health test that the Ecs Server's process state is consistent with the role configuration

**Template Name**

```
ecs_server_scm_health_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## Ecs Server Swap Memory Usage

This Ecs Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Ecs Server Swap Memory Usage Rate Beta

This Ecs Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

`process_swap_memory_rate_thresholds`

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

`process_swap_memory_rate_window`

**Default Value**

5

**Unit(s)**

MINUTES

## Ecs Server Unexpected Exits

This Ecs Server health test checks that the Ecs Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ecs Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

`unexpected_exits_window`

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**



```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Event Server Health Tests

### Event Server Audit Pipeline Test

This Event Server health test checks that the Auditing for the Event Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Event Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Event Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Event Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

```
mgmt_navigator_failure_window
```

**Default Value**

```
20
```

**Unit(s)**

```
MINUTES
```

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

```
mgmt_navigator_failure_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
BYTES
```

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

```
mgmt_navigator_status_check_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## Event Server Cloudera Manager Descriptor Age

This is a Event Server health test that checks if the Cloudera Manager descriptor has been refreshed recently. The Cloudera Manager descriptor is used to pass configuration information from the Cloudera Manager Server to the Event Server. If the descriptor becomes stale, Event Server operation may be impacted because the Event Server will receive information about new hosts, roles, and services, or changes to existing hosts, roles, and services. A stale descriptor usually indicates problems communicating with the Cloudera Manager Server but can also indicate performance problems or a bug. Consult the Event Server log and the Cloudera Manager Server log for more information. This test can be configured using the Cloudera Manager Descriptor Age Thresholds Cloudera Manager Event Server setting.

Short Name: Cloudera Manager Descriptor Age

### Cloudera Manager Descriptor Age Thresholds

**Description**

The health test thresholds for monitoring the time since the Cloudera Manager descriptor was last refreshed.

**Template Name**

scm\_descriptor\_age\_thresholds

**Default Value**

critical:120000.0, warning:60000.0

**Unit(s)**

no unit

## Event Server Event Server Index Directory Free Space

This is a Event Server health test that checks that the filesystem containing the Event Server Index Directory of this Event Server has sufficient free space. See the Event Server Index Directory description on the Event Server configuration page for more information on this directory type. This test can be configured using the Event Server Index Directory Free Space Monitoring Absolute Thresholds and Event Server Index Directory Free Space Monitoring Percentage Thresholds Event Server monitoring settings.

Short Name: Event Server Index Directory Free Space

### Event Server Index Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Event Server Index Directory.

**Template Name**

eventserver\_index\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Event Server Index Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Event Server Index Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Event Server Index Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

eventserver\_index\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Event Server Event Store Size

This is an Event Server health test that checks that the event store size has not grown too far above the configured event store capacity. A failure of this health test indicates that the Event Server is having a problem performing cleanup. This may indicate a configuration problem or bug in the Event Server. This test can be configured using the Event Store Capacity Monitoring Thresholds Event Server monitoring setting.

Short Name: Event Store Size

### Event Store Capacity Monitoring Thresholds

#### Description

The health test thresholds on the number of events in the event store. Specified as a percentage of the maximum number of events in Event Server store.

#### Template Name

eventserver\_capacity\_thresholds

#### Default Value

critical:130.0, warning:115.0

#### Unit(s)

PERCENT

### Event Server File Descriptors

This Event Server health test checks that the number of file descriptors used does not rise above some percentage of the Event Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Event Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

eventserver\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Event Server GC Duration

This Event Server health test checks that the Event Server is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the Event Server. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period Event Server monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

**Description**

The period to review when computing the moving average of garbage collection time.

**Template Name**

eventserver\_gc\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Garbage Collection Duration Thresholds

**Description**

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

**Template Name**

eventserver\_gc\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## Event Server Heap Dump Directory Free Space

This Event Server health test checks that the filesystem containing the heap dump directory of this Event Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Event Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Heap Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Event Server Host Health**

This Event Server health test factors in the health of the host upon which the Event Server is running. A failure of this test means that the host running the Event Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Event Server Host Health Test Event Server monitoring setting.

Short Name: Host Health

**Event Server Host Health Test****Description**

When computing the overall Event Server health, consider the host's health.

**Template Name**

eventserver\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Event Server Log Directory Free Space**

This Event Server health test checks that the filesystem containing the log directory of this Event Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Event Server monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Event Server Process Status**

This Event Server health test checks that the Cloudera Manager Agent on the Event Server host is heart beating correctly and that the process associated with the Event Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Event Server process, a lack of connectivity to the Cloudera Manager Agent on the Event Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Event Server has crashed or because the Event Server will not start or stop in a timely fashion. Check the Event Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Event Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Event Server host, or look in the Cloudera Manager Agent logs on the Event Server host for more details. This test can be enabled or disabled using the Event Server Process Health Test Event Server monitoring setting.

Short Name: Process Status

**Event Server Process Health Test****Description**

Enables the health test that the Event Server's process state is consistent with the role configuration

**Template Name**

eventserver\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Event Server Swap Memory Usage**

This Event Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

**Process Swap Memory Thresholds****Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**`process_swap_memory_thresholds`**Default Value**`critical:never, warning:200.0`**Unit(s)**

BYTES

## Event Server Swap Memory Usage Rate Beta

This Event Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**`process_swap_memory_rate_thresholds`**Default Value**`critical:never, warning:never`**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**`process_swap_memory_rate_window`**Default Value**

5

**Unit(s)**

MINUTES

## Event Server Unexpected Exits

This Event Server health test checks that the Event Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Event Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**Event Server Web Server Status**

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Event Server, a misconfiguration of the Event Server, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Event Server for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Event Server's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Event Server's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Event Server monitoring setting.

Short Name: Web Server Status

**Web Metric Collection****Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**

eventserver\_web\_metric\_collection\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

eventserver\_web\_metric\_collection\_thresholds



**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## Event Server Write Pipeline

This Event Server health test checks that no messages are being dropped by the writer stage of the Event Server pipeline. A failure of this health test indicates a problem with the Event Server. This may indicate a configuration problem or a bug in the Event Server. This test can be configured using the Event Server Write Pipeline Monitoring Time Period monitoring setting.

Short Name: Write Pipeline

### Event Server Write Pipeline Monitoring Thresholds

**Description**

The health test thresholds for monitoring the Event Server write pipeline. This specifies the number of dropped messages that will be tolerated over the monitoring time period.

**Template Name**

eventserver\_write\_pipeline\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

### Event Server Write Pipeline Monitoring Time Period

**Description**

The time period over which the Event Server write pipeline will be monitored for dropped messages.

**Template Name**

eventserver\_write\_pipeline\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Failover Controller Health Tests

### Failover Controller Audit Pipeline Test

This Failover Controller health test checks that the Auditing for the Failover Controller role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Failover Controller process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Failover Controller host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Failover Controller monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Failover Controller File Descriptors

This Failover Controller health test checks that the number of file descriptors used does not rise above some percentage of the Failover Controller file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Failover Controller monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

failovercontroller\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Failover Controller Heap Dump Directory Free Space

This Failover Controller health test checks that the filesystem containing the heap dump directory of this Failover Controller has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Failover Controller monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Failover Controller Host Health

This Failover Controller health test factors in the health of the host upon which the Failover Controller is running. A failure of this test means that the host running the Failover Controller is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Failover Controller Host Health Test Failover Controller monitoring setting.

Short Name: Host Health

### Failover Controller Host Health Test

**Description**

When computing the overall Failover Controller health, consider the host's health.

**Template Name**

|                      |  |
|----------------------|--|
|                      | failovercontroller_host_health_enabled |
| <b>Default Value</b> | true                                   |
| <b>Unit(s)</b>       | no unit                                |

## Failover Controller Log Directory Free Space

This Failover Controller health test checks that the filesystem containing the log directory of this Failover Controller has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Failover Controller monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Failover Controller Process Status

This Failover Controller health test checks that the Cloudera Manager Agent on the Failover Controller host is heart beating correctly and that the process associated with the Failover Controller role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Failover Controller process, a lack of connectivity to the Cloudera Manager Agent on the Failover Controller host, or a problem with the Cloudera Manager Agent. This test can fail either because the Failover Controller has crashed or because the Failover Controller will not start or stop in a timely fashion. Check the Failover Controller logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Failover Controller host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Failover Controller host, or look in the Cloudera Manager Agent logs on the Failover Controller host for more details. This test can be enabled or disabled using the Failover Controller Process Health Test Failover Controller monitoring setting.

Short Name: Process Status

### Failover Controller Process Health Test

#### Description

Enables the health test that the Failover Controller's process state is consistent with the role configuration

#### Template Name

failovercontroller\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Failover Controller Swap Memory Usage

This Failover Controller health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

#### Process Swap Memory Thresholds

##### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

##### Template Name

process\_swap\_memory\_thresholds

##### Default Value

critical:never, warning:200.0

##### Unit(s)

BYTES

### Failover Controller Swap Memory Usage Rate Beta

This Failover Controller health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

#### Swap Memory Usage Rate Thresholds

##### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

##### Template Name

process\_swap\_memory\_rate\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Failover Controller Unexpected Exits

This Failover Controller health test checks that the Failover Controller has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Failover Controller monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Flink Dashboard Health Tests

### Flink Dashboard Audit Pipeline Test

This Flink Dashboard health test checks that the Auditing for the Flink Dashboard role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Flink Dashboard process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Flink Dashboard host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Flink Dashboard monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Flink Dashboard File Descriptors

This Flink Dashboard health test checks that the number of file descriptors used does not rise above some percentage of the Flink Dashboard file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Flink Dashboard monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`flink_history_server_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Flink Dashboard Host Health

This Flink Dashboard health test factors in the health of the host upon which the Flink Dashboard is running. A failure of this test means that the host running the Flink Dashboard is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Flink Dashboard Host Health Test Flink Dashboard monitoring setting.

Short Name: Host Health

### Flink Dashboard Host Health Test

#### Description

When computing the overall Flink Dashboard health, consider the host's health.

#### Template Name

`flink_history_server_host_health_enabled`

#### Default Value

true

#### Unit(s)

no unit

### Flink Dashboard Log Directory Free Space

This Flink Dashboard health test checks that the filesystem containing the log directory of this Flink Dashboard has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Flink Dashboard monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

`log_directory_free_space_absolute_thresholds`

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES



## Log Directory Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

log\_directory\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## Flink Dashboard Process Status

This Flink Dashboard health test checks that the Cloudera Manager Agent on the Flink Dashboard host is heart beating correctly and that the process associated with the Flink Dashboard role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Flink Dashboard process, a lack of connectivity to the Cloudera Manager Agent on the Flink Dashboard host, or a problem with the Cloudera Manager Agent. This test can fail either because the Flink Dashboard has crashed or because the Flink Dashboard will not start or stop in a timely fashion. Check the Flink Dashboard logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Flink Dashboard host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Flink Dashboard host, or look in the Cloudera Manager Agent logs on the Flink Dashboard host for more details. This test can be enabled or disabled using the Flink Dashboard Process Health Test Flink Dashboard monitoring setting.

Short Name: Process Status

## Flink Dashboard Process Health Test

### Description

Enables the health test that the Flink Dashboard's process state is consistent with the role configuration

### Template Name

flink\_history\_server\_scm\_health\_enabled

### Default Value

true

### Unit(s)

no unit

## Flink Dashboard Swap Memory Usage

This Flink Dashboard health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

## Process Swap Memory Thresholds

### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

### Template Name

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Flink Dashboard Swap Memory Usage Rate Beta

This Flink Dashboard health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

## Flink Dashboard Unexpected Exits

This Flink Dashboard health test checks that the Flink Dashboard has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Flink Dashboard monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Flume Health Tests

### Flume Agent Health

This is a Flume service-level health test that checks that enough of the Agents in the cluster are healthy. The test returns "Concerning" health if the number of healthy Agents falls below a warning threshold, expressed as a percentage of the total number of Agents. The test returns "Bad" health if the number of healthy and "Concerning" Agents falls below a critical threshold, expressed as a percentage of the total number of Agents. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Agents, this test would return "Good" health if 95 or more Agents have good health. This test would return "Concerning" health if at least 90 Agents have either "Good" or "Concerning" health. If more than 10 Agents have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Agents. Check the status of the individual Agents for more information. This test can be configured using the Flume Flume service-wide monitoring setting.

Short Name: Agent Health

**Healthy Agent Monitoring Thresholds****Description**

The health test thresholds of the overall Agent health. The check returns "Concerning" health if the percentage of "Healthy" Agents falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Agents falls below the critical threshold.

**Template Name**

flume\_agents\_healthy\_thresholds

**Default Value**

critical:never, warning:95.0

**Unit(s)**

PERCENT

## Flume Agent Health Tests

### Flume Agent Audit Pipeline Test

This Agent health test checks that the Auditing for the Agent role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Agent process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Agent host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Agent monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## Flume Agent File Descriptors

This Agent health test checks that the number of file descriptors used does not rise above some percentage of the Agent file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Agent monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

flume\_agent\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Flume Agent Heap Dump Directory Free Space

This Agent health test checks that the filesystem containing the heap dump directory of this Agent has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Agent monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Flume Agent Host Health

This Agent health test factors in the health of the host upon which the Agent is running. A failure of this test means that the host running the Agent is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Agent Host Health Test Agent monitoring setting.

Short Name: Host Health

### Agent Host Health Test

#### Description

When computing the overall Agent health, consider the host's health.

#### Template Name

flume\_agent\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Flume Agent Log Directory Free Space

This Agent health test checks that the filesystem containing the log directory of this Agent has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Agent monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Flume Agent Process Status

This Agent health test checks that the Cloudera Manager Agent on the Agent host is heart beating correctly and that the process associated with the Agent role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Agent process, a lack of connectivity to the Cloudera Manager Agent on the Agent host, or a problem with the Cloudera Manager Agent. This test can fail either because the Agent has crashed or because the Agent will not start or stop in a timely fashion. Check the Agent logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Agent host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Agent host, or look in the Cloudera Manager Agent logs on the Agent host for more details. This test can be enabled or disabled using the Agent Process Health Test Agent monitoring setting.

Short Name: Process Status

### Agent Process Health Test

#### Description

Enables the health test that the Agent's process state is consistent with the role configuration

#### Template Name

`flume_agent_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Flume Agent Swap Memory Usage

This Agent health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Flume Agent Swap Memory Usage Rate Beta

This Agent health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Flume Agent Unexpected Exits**

This Agent health test checks that the Agent has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Agent monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**



critical:any, warning:never

**Unit(s)**

no unit

## Flume Agent Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Agent, a misconfiguration of the Agent, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Agent for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Agent's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Agent's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Agent monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

agent\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

agent\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Garbage Collector Health Tests

### Garbage Collector Audit Pipeline Test

This Garbage Collector health test checks that the Auditing for the Garbage Collector role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Garbage Collector process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Garbage Collector host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Garbage Collector monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Garbage Collector File Descriptors

This Garbage Collector health test checks that the number of file descriptors used does not rise above some percentage of the Garbage Collector file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Garbage Collector monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

accumulo16\_gc\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Garbage Collector Host Health

This Garbage Collector health test factors in the health of the host upon which the Garbage Collector is running. A failure of this test means that the host running the Garbage Collector is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Garbage Collector Host Health Test Garbage Collector monitoring setting.

Short Name: Host Health

### Garbage Collector Host Health Test

**Description**

When computing the overall Garbage Collector health, consider the host's health.

**Template Name**

accumulo16\_gc\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Garbage Collector Log Directory Free Space

This Garbage Collector health test checks that the filesystem containing the log directory of this Garbage Collector has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Garbage Collector monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Garbage Collector Process Status

This Garbage Collector health test checks that the Cloudera Manager Agent on the Garbage Collector host is heart beating correctly and that the process associated with the Garbage Collector role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Garbage Collector process, a lack of connectivity to the Cloudera Manager Agent on the Garbage Collector host, or a problem with the Cloudera Manager Agent. This test can fail either because the Garbage Collector has crashed or because the Garbage Collector will not start or stop in a timely fashion. Check the Garbage Collector logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Garbage Collector host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Garbage Collector host, or look in the Cloudera Manager Agent logs on the Garbage Collector host for more details. This test can be enabled or disabled using the Garbage Collector Process Health Test Garbage Collector monitoring setting.

Short Name: Process Status

### Garbage Collector Process Health Test

**Description**

Enables the health test that the Garbage Collector's process state is consistent with the role configuration

**Template Name**

accumulo16\_gc\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Garbage Collector Swap Memory Usage

This Garbage Collector health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Garbage Collector Swap Memory Usage Rate Beta

This Garbage Collector health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Garbage Collector Unexpected Exits

This Garbage Collector health test checks that the Garbage Collector has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Garbage Collector monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

`critical:any, warning:never`

#### Unit(s)

no unit

## HBase Health Tests

### HBase Master Health

This is an HBase service-level health test that checks for an active, healthy HBase Master. The test returns "Bad" health if the service is running and an active Master cannot be found. If an active Master is found, then the test checks the health of that Master as well as the health of any standby Masters configured. A "Good" health result will only be returned if the active Master is healthy and all running standby Masters are healthy. A failure of this health test may indicate stopped or unhealthy Master roles, or it may indicate a problem with communication between the Cloudera Manager Service Monitor and the HBase service. Check the status of the HBase service's Master roles and look in the Cloudera Manager Service Monitor's log files for more information when this test fails. This test can be enabled or disabled using the Active Master Health Test HBase service-wide monitoring setting. The check for a healthy standby Master can be enabled or disabled with Backup Masters Health Test. In addition, the HBase Active Master Detection Window can be used to adjust the amount of time that the Cloudera Manager Service Monitor has to detect the active HBase Master before this health test fails.

Short Name: HBase Master Health

### Active Master Health Test

#### Description

When computing the overall HBase cluster health, consider the active HBase Master's health.

#### Template Name

`hbase_master_health_enabled`

#### Default Value

`true`

#### Unit(s)

no unit

### Backup Masters Health Test

#### Description

When computing the overall HBase cluster health, consider the health of the backup HBase Masters.

#### Template Name

`hbase_backup_masters_health_enabled`

#### Default Value

`true`

#### Unit(s)

no unit

### HBase Active Master Detection Window

**Description**

The tolerance window that will be used in HBase service tests that depend on detection of the active HBase Master.

**Template Name**

hbase\_active\_master\_detection\_window

**Default Value**

3

**Unit(s)**

MINUTES

### HBase RegionServer Health

This is a HBase service-level health test that checks that enough of the RegionServers in the cluster are healthy. The test returns "Concerning" health if the number of healthy RegionServers falls below a warning threshold, expressed as a percentage of the total number of RegionServers. The test returns "Bad" health if the number of healthy and "Concerning" RegionServers falls below a critical threshold, expressed as a percentage of the total number of RegionServers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 RegionServers, this test would return "Good" health if 95 or more RegionServers have good health. This test would return "Concerning" health if at least 90 RegionServers have either "Good" or "Concerning" health. If more than 10 RegionServers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy RegionServers. Check the status of the individual RegionServers for more information. This test can be configured using the HBase HBase service-wide monitoring setting.

Short Name: RegionServer Health

### Healthy RegionServer Monitoring Thresholds

**Description**

The health test thresholds of the overall RegionServer health. The check returns "Concerning" health if the percentage of "Healthy" RegionServers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" RegionServers falls below the critical threshold.

**Template Name**

hbase\_regionservers\_healthy\_thresholds

**Default Value**

critical:90.0, warning:95.0

**Unit(s)**

PERCENT

### HBase REST Server Health Tests

#### HBase REST Server Audit Pipeline Test

This HBase REST Server health test checks that the Auditing for the HBase REST Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of HBase REST Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the HBase REST Server host isn't able to send audits because of some network issue.

Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check HBase REST Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## HBase REST Server File Descriptors

This HBase REST Server health test checks that the number of file descriptors used does not rise above some percentage of the HBase REST Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds HBase REST Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description



The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

hbaserestserver\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## HBase REST Server Heap Dump Directory Free Space

This HBase REST Server health test checks that the filesystem containing the heap dump directory of this HBase REST Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds HBase REST Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## HBase REST Server Host Health

This HBase REST Server health test factors in the health of the host upon which the HBase REST Server is running. A failure of this test means that the host running the HBase REST Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the HBase REST Server Host Health Test HBase REST Server monitoring setting.

Short Name: Host Health

### HBase REST Server Host Health Test

#### Description

When computing the overall HBase REST Server health, consider the host's health.

#### Template Name

hbaserestserver\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### HBase REST Server Log Directory Free Space

This HBase REST Server health test checks that the filesystem containing the log directory of this HBase REST Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds HBase REST Server monitoring settings.

Short Name: Log Directory Free Space

#### Log Directory Free Space Monitoring Absolute Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

##### Template Name

log\_directory\_free\_space\_absolute\_thresholds

##### Default Value

critical:5.36870912E9, warning:1.073741824E10

##### Unit(s)

BYTES

#### Log Directory Free Space Monitoring Percentage Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

##### Template Name

log\_directory\_free\_space\_percentage\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

PERCENT

### HBase REST Server Process Status

This HBase REST Server health test checks that the Cloudera Manager Agent on the HBase REST Server host is heart beating correctly and that the process associated with the HBase REST Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the HBase REST Server process, a lack of connectivity to the Cloudera Manager Agent on the HBase REST Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the HBase REST Server has crashed or because the HBase REST Server will not start or stop in a timely fashion. Check the HBase REST Server logs for more details. If the test fails

because of problems communicating with the Cloudera Manager Agent on the HBase REST Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the HBase REST Server host, or look in the Cloudera Manager Agent logs on the HBase REST Server host for more details. This test can be enabled or disabled using the HBase REST Server Process Health Test HBase REST Server monitoring setting.

Short Name: Process Status

### HBase REST Server Process Health Test

#### Description

Enables the health test that the HBase REST Server's process state is consistent with the role configuration

#### Template Name

`hbaserestserver_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### HBase REST Server Swap Memory Usage

This HBase REST Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### HBase REST Server Swap Memory Usage Rate Beta

This HBase REST Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**HBase REST Server Unexpected Exits**

This HBase REST Server health test checks that the HBase REST Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period HBase REST Server monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## HBase Thrift Server Health Tests

### HBase Thrift Server Audit Pipeline Test

This HBase Thrift Server health test checks that the Auditing for the HBase Thrift Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of HBase Thrift Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the HBase Thrift Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check HBase Thrift Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

### HBase Thrift Server File Descriptors

This HBase Thrift Server health test checks that the number of file descriptors used does not rise above some percentage of the HBase Thrift Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds HBase Thrift Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

hbasethriftserver\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### HBase Thrift Server Heap Dump Directory Free Space

This HBase Thrift Server health test checks that the filesystem containing the heap dump directory of this HBase Thrift Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds HBase Thrift Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## HBase Thrift Server Host Health

This HBase Thrift Server health test factors in the health of the host upon which the HBase Thrift Server is running. A failure of this test means that the host running the HBase Thrift Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the HBase Thrift Server Host Health Test HBase Thrift Server monitoring setting.

Short Name: Host Health

### HBase Thrift Server Host Health Test

#### Description

When computing the overall HBase Thrift Server health, consider the host's health.

#### Template Name

hbasethriftserver\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## HBase Thrift Server Log Directory Free Space

This HBase Thrift Server health test checks that the filesystem containing the log directory of this HBase Thrift Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds HBase Thrift Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## HBase Thrift Server Process Status

This HBase Thrift Server health test checks that the Cloudera Manager Agent on the HBase Thrift Server host is heart beating correctly and that the process associated with the HBase Thrift Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the HBase Thrift Server process, a lack of connectivity to the Cloudera Manager Agent on the HBase Thrift Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the HBase Thrift Server has crashed or because the HBase Thrift Server will not start or stop in a timely fashion. Check the HBase Thrift Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the HBase Thrift Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the HBase Thrift Server host, or look in the Cloudera Manager Agent logs on the HBase Thrift Server host for more details. This test can be enabled or disabled using the HBase Thrift Server Process Health Test HBase Thrift Server monitoring setting.

Short Name: Process Status

### HBase Thrift Server Process Health Test

#### Description

Enables the health test that the HBase Thrift Server's process state is consistent with the role configuration

#### Template Name

`hbasethriftserver_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## HBase Thrift Server Swap Memory Usage

This HBase Thrift Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## HBase Thrift Server Swap Memory Usage Rate Beta

This HBase Thrift Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta



### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## HBase Thrift Server Unexpected Exits

This HBase Thrift Server health test checks that the HBase Thrift Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period HBase Thrift Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## HDFS Health Tests

### HDFS Canary

This is an HDFS service-level health test that checks that basic client operations are working and are completing in a reasonable amount of time. This test reports the results of a periodic "canary" test that performs the following sequence of operations. First, it creates a file. By default, the path is /tmp/.cloudera\_health\_monitoring\_canary\_timestamp. The canary test then writes a small amount of data to that file, reads that data back, and verifies that the data is correct. Lastly, the canary test removes the created file. The test returns "Bad" health if any of the basic operations fail. The test returns "Concerning" health if the canary test runs too slowly. A failure of this health test may indicate that the cluster is failing to satisfy basic client requests correctly or in a timely fashion. Check the status of the NameNode and other service-level health tests. Look in the Service Monitor logs for log messages from the canary test. Look in the NameNode logs for more details about the processing of the canary test requests. This test can be enabled or disabled using the HDFS Canary Health Check HDFS service-wide monitoring setting.

Short Name: HDFS Canary

#### HDFS Canary Health Check

**Description**

Enables the health check that a client can create, read, write, and delete files

**Template Name**

```
hdfs_canary_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

### HDFS Corrupt Blocks

This is an HDFS service-level health test that checks that the number of corrupt blocks does not rise above some percentage of the cluster's total blocks. A block is called corrupt by HDFS if it has at least one corrupt replica along with at least one live replica. As such, a corrupt block does not indicate unavailable data, but they do indicate an increased chance that data may become unavailable. If none of a block's replicas are live, the block is called a missing block by HDFS, not a corrupt block. HDFS automatically fixes corrupt blocks in the background. A failure of this health test may indicate a problem with the underlying storage or filesystem of a DataNode. Use the HDFS fsck command to identify which files contain corrupt blocks. This test can be configured using the Blocks With Corrupt Replicas Monitoring Thresholds HDFS service-wide monitoring setting.

Short Name: Corrupt Blocks

#### Blocks With Corrupt Replicas Monitoring Thresholds

**Description**

The health check thresholds of the number of blocks that have at least one corrupt replica. Specified as a percentage of the total number of blocks.

**Template Name**

hdfs\_blocks\_with\_corrupt\_replicas\_thresholds

**Default Value**

critical:1.0, warning:0.5

**Unit(s)**

PERCENT

## HDFS DataNode Health

This is a HDFS service-level health test that checks that enough of the DataNodes in the cluster are healthy. The test returns "Concerning" health if the number of healthy DataNodes falls below a warning threshold, expressed as a percentage of the total number of DataNodes. The test returns "Bad" health if the number of healthy and "Concerning" DataNodes falls below a critical threshold, expressed as a percentage of the total number of DataNodes. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 DataNodes, this test would return "Good" health if 95 or more DataNodes have good health. This test would return "Concerning" health if at least 90 DataNodes have either "Good" or "Concerning" health. If more than 10 DataNodes have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy DataNodes. Check the status of the individual DataNodes for more information. This test can be configured using the HDFS HDFS service-wide monitoring setting.

Short Name: DataNode Health

### Healthy DataNode Monitoring Thresholds

**Description**

The health test thresholds of the overall DataNode health. The check returns "Concerning" health if the percentage of "Healthy" DataNodes falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" DataNodes falls below the critical threshold.

**Template Name**

hdfs\_datanodes\_healthy\_thresholds

**Default Value**

critical:90.0, warning:95.0

**Unit(s)**

PERCENT

## HDFS Erasure Coding Policy Verification Test

There is a high risk of losing data if the offending erasure coding policy is used. For more information, see [Best Practices for Rack and Node Setup for EC](#). Do one of the following to clear this health issue:

- Add more DataNodes or Racks to your Cluster, if you want to use all the enabled erasure coding policies.
- Disable the offending erasure coding policy:
  - Change the default erasure coding policy, if the offending policy is set as the default policy: Go to the HDFS configuration page, search for 'Fallback Erasure Coding Policy', and select one that is compliant with your existing cluster setup.
  - Disable the offending erasure coding policy: Use the 'hdfs ec -disablePolicy -policy \*policyName\*' command.
- Disable the health test: Go to the HDFS configuration page, search for 'Erasure Coding Policy Verification Health Check', and unselect it. This is not recommended, because there is a high risk of losing data if the offending erasure coding policy is used.

Short Name: Erasure Coding Policy Verification Test

### Erasure Coding Policy Verification Health Check

**Description**

Enables the health test for verifying if the cluster topology supports all the enabled erasure coding policies.

**Template Name**

hdfs\_verify\_ec\_with\_topology\_enabled

**Default Value**

false

**Unit(s)**

no unit

**Fallback Erasure Coding Policy****Description**

The fallback Erasure Coding policy that HDFS uses if no policy is specified when you run the -setPolicy command.

**Template Name**

erasure\_coding\_default\_policy

**Default Value**

CDH=[[CDH 6.0.0..CDH 8.0.0)=RS\_6\_3\_1024K]

**Unit(s)**

no unit

**HDFS Failover Controllers Health**

This is a HDFS service-level health test that checks that all the Failover Controllers associated with this service are healthy and running. The test returns "Bad" health if any of Failover Controllers that the service depends on is unhealthy or not running. Check the Failover Controllers logs for more details This test can be enabled or disabled using the Failover Controllers Healthy service-wide monitoring setting.

Short Name: Failover Controllers Health

**Failover Controllers Healthy****Description**

Enables the health check that verifies that the failover controllers associated with this service are healthy and running.

**Template Name**

failover\_controllers\_healthy\_enabled

**Default Value**

true

**Unit(s)**

no unit

**HDFS Free Space**

This is an HDFS service-level health test that checks that the amount of free space in the HDFS cluster does not fall below some percentage of total configured capacity. A failure of this health test may indicate a capacity planning problem, or a loss of DataNodes. An unfinalized HDFS metadata upgrade can also significantly decrease free space. This test can be configured using the HDFS Free Space Monitoring Thresholds HDFS service-wide monitoring setting.

Short Name: Free Space

## HDFS Free Space Monitoring Thresholds

### Description

The health check thresholds of free space in HDFS. Specified as a percentage of total HDFS capacity.

### Template Name

hdfs\_free\_space\_thresholds

### Default Value

critical:10.0, warning:20.0

### Unit(s)

PERCENT

## HDFS Missing Blocks

This is an HDFS service-level health test that checks the number of missing blocks does not rise above some percentage of the cluster's total blocks. A missing block is a block with no live replicas. All replicas are either missing or corrupt. This may happen because of corruption or because DataNodes are offline or being decommissioned. A failure of this health test may indicate the loss of several DataNodes at once. If there are files stored in the cluster with a replication factor value of 1, you may see missing blocks with the loss or malfunction of a single DataNode. Use the HDFS fsck command to identify which files contain missing blocks. This test can be configured using the Missing Block Monitoring Thresholds HDFS service-wide monitoring setting.

Short Name: Missing Blocks

### Missing Block Monitoring Thresholds

#### Description

The health check thresholds of the number of missing blocks. Specified as a percentage of the total number of blocks.

#### Template Name

hdfs\_missing\_blocks\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

PERCENT

## HDFS NameNode Health

This is an HDFS service-level health test that checks for and active, healthy NameNode. The test returns "Bad" health if the service is running and an active NameNode cannot be found. If an active NameNode is found, then the test checks the health of that NameNode as well as the health of any standby NameNode configured. A "Good" health result will only be returned if both the active and Standby NameNodes are healthy. A failure of this health test may indicate stopped or unhealthy NameNode roles, or it may indicate a problem with communication between the Cloudera Manager Service Monitor and the NameNodes. Check the status of the HDFS service's NameNode roles and look in the Cloudera Manager Service Monitor's log files for more information when this test fails. This test can be enabled or disabled using the Active NameNode Role Health Check HDFS service-wide monitoring setting. The check for a healthy standby NameNode can be enabled or disabled with Standby NameNode Health Check. In addition, the Active NameNode Detection Window can be used to adjust the amount of time that the Cloudera Manager Service Monitor has to detect the active NameNode before this health test fails, and the NameNode Activation Startup Tolerance can be used to adjust the amount of time around NameNode startup that the test allows for a NameNode to be made active.

Short Name: NameNode Health

### Active NameNode Detection Window

**Description**

The tolerance window that will be used in HDFS service tests that depend on detection of the active NameNode.

**Template Name**

hdfs\_active\_namenode\_detection\_window

**Default Value**

3

**Unit(s)**

MINUTES

### Active NameNode Role Health Check

**Description**

When computing the overall HDFS cluster health, consider the active NameNode's health

**Template Name**

hdfs\_namenode\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

### NameNode Activation Startup Tolerance

**Description**

The amount of time after NameNode(s) start that the lack of an active NameNode will be tolerated. This is intended to allow either the auto-failover daemon to make a NameNode active, or a specifically issued failover command to take effect. This is an advanced option that does not often need to be changed.

**Template Name**

hdfs\_namenode\_activation\_startup\_tolerance

**Default Value**

180

**Unit(s)**

SECONDS

### Standby NameNode Health Check

**Description**

When computing the overall HDFS cluster health, consider the health of the standby NameNode.

**Template Name**

hdfs\_standby\_namenodes\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## HDFS Under-Replicated Blocks

This is an HDFS service-level health test that checks that the number of under-replicated blocks does not rise above some percentage of the cluster's total blocks. A failure of this health test may indicate a loss of DataNodes. Use the HDFS fsck command to identify which files contain under-replicated blocks. This test can be configured using the Under-replicated Block Monitoring Thresholds HDFS service-wide monitoring setting.

Short Name: Under-Replicated Blocks

### Under-replicated Block Monitoring Thresholds

#### Description

The health check thresholds of the number of under-replicated blocks. Specified as a percentage of the total number of blocks.

#### Template Name

hdfs\_under\_replicated\_blocks\_thresholds

#### Default Value

critical:40.0, warning:10.0

#### Unit(s)

PERCENT

## History Server Health Tests

### History Server Audit Pipeline Test

This History Server health test checks that the Auditing for the History Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of History Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the History Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check History Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**History Server File Descriptors**

This History Server health test checks that the number of file descriptors used does not rise above some percentage of the History Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds History Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

spark3\_yarn\_history\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**History Server Host Health**

This History Server health test factors in the health of the host upon which the History Server is running. A failure of this test means that the host running the History Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the History Server Host Health Test History Server monitoring setting.

Short Name: Host Health

**History Server Host Health Test****Description**

When computing the overall History Server health, consider the host's health.

**Template Name**

spark3\_yarn\_history\_server\_host\_health\_enabled

**Default Value**



|                |         |
|----------------|---------|
|                | true    |
| <b>Unit(s)</b> |         |
|                | no unit |

## History Server Log Directory Free Space

This History Server health test checks that the filesystem containing the log directory of this History Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds History Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## History Server Process Status

This History Server health test checks that the Cloudera Manager Agent on the History Server host is heart beating correctly and that the process associated with the History Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the History Server process, a lack of connectivity to the Cloudera Manager Agent on the History Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the History Server has crashed or because the History Server will not start or stop in a timely fashion. Check the History Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the History Server host, check the status of the Cloudera Manager Agent by running `etc/init.d/cloudera-scm-agent status` on the History Server host, or look in the Cloudera Manager Agent logs on the History Server host for more details. This test can be enabled or disabled using the History Server Process Health Test History Server monitoring setting.

Short Name: Process Status

### History Server Process Health Test

#### Description

Enables the health test that the History Server's process state is consistent with the role configuration

#### Template Name

spark3\_yarn\_history\_server\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### History Server Swap Memory Usage

This History Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

#### Process Swap Memory Thresholds

##### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

##### Template Name

process\_swap\_memory\_thresholds

##### Default Value

critical:never, warning:200.0

##### Unit(s)

BYTES

### History Server Swap Memory Usage Rate Beta

This History Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

#### Swap Memory Usage Rate Thresholds

##### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

##### Template Name

process\_swap\_memory\_rate\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

### History Server Unexpected Exits

This History Server health test checks that the History Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period History Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Hive Health Tests

### Hive Compaction System Health Check

This is compaction system health test that checks whether compaction processes are properly configured and operational. Failure of this health test could indicate a problem with the compaction that could severely degrade query performance. Use the guidelines below for troubleshooting.

- Oldest initiated compaction passed threshold: Check the last successful compactions in the SYS.COMPACTON view. If no compactions have finished recently, check the logs for errors in the Worker threads for either the Compactor Virtual Warehouse or in the DataHub clusters, if applicable. If compactions are running successfully, but there are many queued compactions, increase the number of Worker threads set for 'hive.compactor.worker.threads' in the Compactor Virtual Warehouse or DataHub clusters. Alternatively, you can increase the amount of available resources
- Large number of compaction failures: Many compactions are failing.
  1. Run `SELECT * FROM SYS.COMPACTIONS WHERE C_STATE IN ("failed", "did not initiate");` to check the error message in the sys.compaction table.
  2. Check the logs in the Compactor Virtual Warehouse for the "Caught exception while trying to compact" message.
- Oldest uncleaned compaction passed threshold: Compactor cleaner process cannot clean obsolete data.
  1. Check the metastore log to make sure the cleaner thread is running.
  2. Run `SHOW TRANSACTIONS;` to check if there are open transactions blocking the cleaner. If the blocking transactions are not of the 'type=REPL\_CREATED', they can be aborted by running `ABORT TRANSACTIONS *transactionID*;`
- Old aborted transaction not cleared: An old aborted transaction was not cleared. This can impact your overall query performance. This is most likely caused by an uncompact table. Check for failed compactions in the SYS.COMPACTON view.
- Tables/partitions with many aborts: At least one table or partition has not been compacted and have more than `hive.metastore.acidmetrics.table.aborted.txns.threshold` (default: 1500) aborts.
  1. Verify that the "hive.compactor.abortedtxn.threshold" is not set to a value higher than 1000.
  2. Find the affected table/partition by running `SELECT TC_DATABASE, TC_TABLE, TC_PARTITION, COUNT() FROM SYS.TRANSACTIONS WHERE STATE='aborted' GROUP BY TC_DATABASE, TC_TABLE, TC_PARTITION HAVING COUNT()*n;` Where n is the value of `hive.metastore.acidmetrics.table.aborted.txns.threshold`. The default is 1500.
  3. Check the SYS.COMPACTIONS table for compactions on this table or partition in the "did not initiate", "failed", or "ready for cleaning" state.
  4. Check the Compactor Virtual Warehouse logs for "compactor.Initiator errors associated with this table or partition.
  5. Manually initiate compaction on the table/partition by running `ALTER TABLE *table-name* [PARTITION (*partition-column*=*partition-value*) COMPACT 'minor';`
- Oldest open transaction passed threshold: A transaction has been open for longer than the set threshold. Stuck transactions can block cleaning obsolete files and ACID metadata, which can lead to performance degradation. Check for old open transactions with `SHOW TRANSACTIONS`. If these are not type=REPL\_CREATED, they can be aborted with `ABORT TRANSACTIONS *txnid*;`
- Oldest open replication transaction passed threshold: A replication transaction has been open longer than the set threshold. Stuck transactions can block cleaning of ACID metadata, which can lead to performance degradation. Before you abort a transaction that was created by replication, and which has been open a long time, make sure that the `hive.repl.txn.timeout` threshold has expired. If it has, there may be an issue with replication. Please contact Cloudera Support.
- Excessive ACID metadata: An excessive amount of Hive ACID metadata exists, which can cause serious performance degradation. Failing compactions or metadata cleanup service problems can cause this.
  1. Check for failed compactions by running `SELECT * FROM SYS.COMPACTIONS WHERE c_state IN ("failed", "did not initiate");` against the SYS.COMPACTIONS view.
  2. Search for failed compactions in the HiveServer2 logs, which are indicated with the message "Caught exception while trying to compact"

- Excessive ACID metadata: An excessive amount of Hive ACID metadata exists, which can cause serious performance degradation. Failing compactions or metadata cleanup service problems can cause this.
  1. Check for failed compactions by running `SELECT * FROM SYS.COMPACTIONS WHERE c_state IN ("failed", "did not initiate");` against the `SYS.COMPACTIONS` view.
  2. Search for failed compactions in the HiveServer2 logs, which are indicated with the message "Caught exception while trying to compact"
- Activity on table with disabled auto-compaction: A change has been made on a table where automated compaction is disabled. If this is not intended, re-enable compaction on the table by running `ALTER TABLE table_name SET TBLPROPERTIES ("no_auto_compaction" = "false")`.
- Table/partition with large number of active delta directories There are tables with a large number of delta directories, which can cause performance degradation. Check the "Top 100 partitions or unpartitioned tables with the most active deltas" chart in CM to see affected tables and partitions. These tables and partitions should be compacted.
- Table/partition with large number of small delta directories There are tables with a large number of small delta directories, which can cause performance degradation. Check the "Top 100 partitions or unpartitioned tables with the most small deltas" chart in CM to see affected tables and partitions. These tables and partitions should be compacted.

This test can be configured using the Hive Compaction Health Test Hive monitoring settings.

Short Name: Compaction System Health Check

### Excessive ACID metadata (CompletedTxnComponents) Thresholds

#### Description

The health test thresholds for excessive acid metadata in CompletedTxnComponents

#### Template Name

hive\_compaction\_metadata\_comp\_thresholds

#### Default Value

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:1000000.0, warning:500000.0, [CDH 7.2.14..CDH 8.0.0)=critical:1000000.0, warning:500000.0]

#### Unit(s)

no unit

### Excessive ACID metadata (TxnToWriteId) Thresholds

#### Description

The health test thresholds for excessive acid metadata in TxnToWriteId

#### Template Name

hive\_compaction\_metadata\_ttw\_thresholds

#### Default Value

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:1000000.0, warning:500000.0, [CDH 7.2.14..CDH 8.0.0)=critical:1000000.0, warning:500000.0]

#### Unit(s)

TIMES

### Failed Compaction Thresholds

#### Description

The health test thresholds for the number of failed compactions.

#### Template Name

hive\_compaction\_failed\_thresholds

**Default Value**

critical:never, warning:1.0

**Unit(s)**

PERCENT

**Hive Compaction Health Test****Description**

Enables the health test that checks whether compaction processes are properly configured and operational.

**Template Name**

hive\_compaction\_health\_check\_enabled

**Default Value**

false

**Unit(s)**

no unit

**Oldest Initiated Compaction Thresholds****Description**

The health test thresholds for the oldest initiated compaction.

**Template Name**

hive\_compaction\_oldest\_initiated\_thresholds

**Default Value**

critical:43200.0, warning:3600.0

**Unit(s)**

SECONDS

**Oldest Open non replication Transaction Thresholds****Description**

The health test thresholds for the oldest open non replication transaction

**Template Name**

hive\_compaction\_oldest\_open\_txn\_thresholds

**Default Value**

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:259200.0, warning:86400.0, [CDH 7.2.14..CDH 8.0.0)=critical:259200.0, warning:86400.0]

**Unit(s)**

SECONDS

**Oldest Open replication Transaction Thresholds****Description**

The health test thresholds for the oldest open replication transaction

**Template Name**

hive\_compaction\_oldest\_open\_repl\_txn\_thresholds

**Default Value**

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:1814400.0, warning:1209600.0, [CDH 7.2.14..CDH 8.0.0)=critical:1814400.0, warning:1209600.0]

**Unit(s)**

SECONDS

**Oldest Uncleaned Aborted Transaction Thresholds****Description**

The health test thresholds for the oldest uncleaned aborted transaction.

**Template Name**

hive\_compaction\_aborted\_txn\_not\_cleaned\_thresholds

**Default Value**

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:172800.0, warning:86400.0, [CDH 7.2.14..CDH 8.0.0)=critical:172800.0, warning:86400.0]

**Unit(s)**

SECONDS

**Oldest Uncleaned Compaction Thresholds****Description**

The health test thresholds for the oldest uncleaned compaction.

**Template Name**

hive\_compaction\_oldest\_ready\_for\_cleaning\_thresholds

**Default Value**

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:never, warning:86400.0, [CDH 7.2.14..CDH 8.0.0)=critical:never, warning:86400.0]

**Unit(s)**

SECONDS

**Tables/Partitions With Many Aborts Thresholds****Description**

The health test thresholds for tables/partitions with many aborted transactions.

**Template Name**

hive\_compaction\_aborted\_txn\_thresholds

**Default Value**

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:1.0, warning:never, [CDH 7.2.14..CDH 8.0.0)=critical:1.0, warning:never]

**Unit(s)**

TIMES

**Tables/Partitions with Large Number of Active Delta Directories Thresholds****Description**

The health test thresholds for table/partition with large number of active delta directories.

**Template Name**

hive\_compaction\_active\_delta\_thresholds

**Default Value**

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:never, warning:200.0, [CDH 7.2.14..CDH 8.0.0)=critical:never, warning:200.0]

**Unit(s)**

TIMES

### Tables/Partitions with Large Number of Small Delta Directories Thresholds

#### Description

The health test thresholds for table/partition with large number of small delta directories

#### Template Name

hive\_compaction\_small\_delta\_thresholds

#### Default Value

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:never, warning:200.0, [CDH 7.2.14..CDH 8.0.0)=critical:never, warning:200.0]

#### Unit(s)

TIMES

### Writes to Tables with Disabled Auto-Compaction Thresholds

#### Description

The health test thresholds for writes to tables where the auto-compaction is disabled

#### Template Name

hive\_compaction\_disabled\_thresholds

#### Default Value

CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:never, warning:1.0, [CDH 7.2.14..CDH 8.0.0)=critical:never, warning:1.0]

#### Unit(s)

TIMES

## Hive Metastore Server Health

This is a Hive service-level health test that checks that enough of the Hive Metastore Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Hive Metastore Servers falls below a warning threshold, expressed as a percentage of the total number of Hive Metastore Servers. The test returns "Bad" health if the number of healthy and "Concerning" Hive Metastore Servers falls below a critical threshold, expressed as a percentage of the total number of Hive Metastore Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Hive Metastore Servers, this test would return "Good" health if 95 or more Hive Metastore Servers have good health. This test would return "Concerning" health if at least 90 Hive Metastore Servers have either "Good" or "Concerning" health. If more than 10 Hive Metastore Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Hive Metastore Servers. Check the status of the individual Hive Metastore Servers for more information. This test can be configured using the Hive Hive service-wide monitoring setting.

Short Name: Hive Metastore Server Health

### Healthy Hive Metastore Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Hive Metastore Server health. The check returns "Concerning" health if the percentage of "Healthy" Hive Metastore Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Hive Metastore Servers falls below the critical threshold.

#### Template Name

hive\_hivemetastores\_healthy\_thresholds

#### Default Value

critical:51.0, warning:99.0

#### Unit(s)



## PERCENT

## Hive WebHCat Server Health

This is a Hive service-level health test that checks that enough of the WebHCat Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy WebHCat Servers falls below a warning threshold, expressed as a percentage of the total number of WebHCat Servers. The test returns "Bad" health if the number of healthy and "Concerning" WebHCat Servers falls below a critical threshold, expressed as a percentage of the total number of WebHCat Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 WebHCat Servers, this test would return "Good" health if 95 or more WebHCat Servers have good health. This test would return "Concerning" health if at least 90 WebHCat Servers have either "Good" or "Concerning" health. If more than 10 WebHCat Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy WebHCat Servers. Check the status of the individual WebHCat Servers for more information. This test can be configured using the Hive Hive service-wide monitoring setting.

Short Name: WebHCat Server Health

### Healthy WebHCat Server Monitoring Thresholds

**Description**

The health test thresholds of the overall WebHCat Server health. The check returns "Concerning" health if the percentage of "Healthy" WebHCat Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" WebHCat Servers falls below the critical threshold.

**Template Name**

hive\_webhcats\_healthy\_thresholds

**Default Value**

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## HiveServer2 Health

This is a Hive service-level health test that checks that enough of the HiveServer2s in the cluster are healthy. The test returns "Concerning" health if the number of healthy HiveServer2s falls below a warning threshold, expressed as a percentage of the total number of HiveServer2s. The test returns "Bad" health if the number of healthy and "Concerning" HiveServer2s falls below a critical threshold, expressed as a percentage of the total number of HiveServer2s. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 HiveServer2s, this test would return "Good" health if 95 or more HiveServer2s have good health. This test would return "Concerning" health if at least 90 HiveServer2s have either "Good" or "Concerning" health. If more than 10 HiveServer2s have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy HiveServer2s. Check the status of the individual HiveServer2s for more information. This test can be configured using the Hive Hive service-wide monitoring setting.

Short Name: HiveServer2 Health

### Healthy HiveServer2 Monitoring Thresholds

**Description**

The health test thresholds of the overall HiveServer2 health. The check returns "Concerning" health if the percentage of "Healthy" HiveServer2s falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" HiveServer2s falls below the critical threshold.

**Template Name**

hive\_hiveserver2s\_healthy\_thresholds

**Default Value**

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## Hive Execution Health Tests

### Hive Execution HiveServer2 Health

This is a Hive Execution service-level health test that checks that enough of the HiveServer2s in the cluster are healthy. The test returns "Concerning" health if the number of healthy HiveServer2s falls below a warning threshold, expressed as a percentage of the total number of HiveServer2s. The test returns "Bad" health if the number of healthy and "Concerning" HiveServer2s falls below a critical threshold, expressed as a percentage of the total number of HiveServer2s. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 HiveServer2s, this test would return "Good" health if 95 or more HiveServer2s have good health. This test would return "Concerning" health if at least 90 HiveServer2s have either "Good" or "Concerning" health. If more than 10 HiveServer2s have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy HiveServer2s. Check the status of the individual HiveServer2s for more information. This test can be configured using the Hive Execution Hive Execution service-wide monitoring setting.

Short Name: HiveServer2 Health

#### Healthy HiveServer2 Monitoring Thresholds

**Description**

The health test thresholds of the overall HiveServer2 health. The check returns "Concerning" health if the percentage of "Healthy" HiveServer2s falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" HiveServer2s falls below the critical threshold.

**Template Name**

hive\_exec\_hiveserver2s\_healthy\_thresholds

**Default Value**

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## Hive LLAP Health Tests

### Hive LLAP HiveServer2 Health

This is a Hive LLAP service-level health test that checks that enough of the HiveServer2s in the cluster are healthy. The test returns "Concerning" health if the number of healthy HiveServer2s falls below a warning threshold, expressed as a percentage of the total number of HiveServer2s. The test returns "Bad" health if the number of healthy and "Concerning" HiveServer2s falls below a critical threshold, expressed as a percentage of the total number of HiveServer2s. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 HiveServer2s, this test would return "Good" health if 95 or more HiveServer2s have good health. This test would return "Concerning" health if at least 90 HiveServer2s have either "Good" or "Concerning" health. If more than 10 HiveServer2s have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy HiveServer2s. Check the status of the individual HiveServer2s for more information. This test can be configured using the Hive LLAP Hive LLAP service-wide monitoring setting.

Short Name: HiveServer2 Health

### Healthy HiveServer2 Monitoring Thresholds

#### Description

The health test thresholds of the overall HiveServer2 health. The check returns "Concerning" health if the percentage of "Healthy" HiveServer2s falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" HiveServer2s falls below the critical threshold.

#### Template Name

hive\_llap\_hiveserver2s\_healthy\_thresholds

#### Default Value

critical:51.0, warning:99.0

#### Unit(s)

PERCENT

### Hive LLAP LLAP Proxy Health

This Hive LLAP service-level health test checks for the presence of a running, healthy LLAP Proxy. The test returns "Bad" health if the service is running and the LLAP Proxy is not running. In all other cases it returns the health of the LLAP Proxy. A failure of this health test indicates a stopped or unhealthy LLAP Proxy. Check the status of the LLAP Proxy for more information. This test can be enabled or disabled using the LLAP Proxy Role Health Test LLAP Proxy service-wide monitoring setting.

Short Name: LLAP Proxy Health

### LLAP Proxy Role Health Test

#### Description

When computing the overall HIVE\_LLAP health, consider LLAP Proxy's health

#### Template Name

hive\_llap\_llaproxy\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Hive Metastore Server Health Tests

### Hive Metastore Server Audit Pipeline Test

This Hive Metastore Server health test checks that the Auditing for the Hive Metastore Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Hive Metastore Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Hive Metastore Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Hive Metastore Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Hive Metastore Server File Descriptors**

This Hive Metastore Server health test checks that the number of file descriptors used does not rise above some percentage of the Hive Metastore Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Hive Metastore Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

hivemetastore\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Hive Metastore Server Heap Dump Directory Free Space

This Hive Metastore Server health test checks that the filesystem containing the heap dump directory of this Hive Metastore Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Hive Metastore Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Hive Metastore Server Hive Metastore Canary

This is a Hive Metastore health test that checks that a client can connect and perform basic operations. The operations include: (1) creating a database, (2) creating a table within that database with several types of columns and two partition keys, (3) creating a number of partitions, and (4) dropping both the table and the database. The database is created under the `/user/hue/.cloudera_manager_hive_metastore_canary/*Hive Metastore role name*/` and is named `"cloudera_manager_metastore_canary_test_db"`. The test returns "Bad" health if any of these operations fail. The test returns "Concerning" health if an unknown failure happens. The canary publishes a metric 'canary\_duration' for the time it took for the canary to complete. Here is an example of a trigger, defined for the Hive Metastore role configuration group, that changes the health to "Bad" when the duration of the canary is longer than 5 sec: "IF (SELECT canary\_duration WHERE entityName=\$ROLENAME AND category = ROLE and last(canary\_duration) > 5s) DO health:bad" A failure of this health test may indicate that the Hive Metastore is failing basic operations. Check the logs of the Hive Metastore and the Cloudera Manager Service Monitor for more details. This test can be enabled or disabled using the Hive Metastore Canary Health Test Hive Metastore monitoring setting.

Short Name: Hive Metastore Canary

### Hive Metastore Canary Health Test

#### Description

Enables the health test that checks that basic Hive Metastore operations succeed

#### Template Name

metastore\_canary\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Hive Metastore Server Host Health

This Hive Metastore Server health test factors in the health of the host upon which the Hive Metastore Server is running. A failure of this test means that the host running the Hive Metastore Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Hive Metastore Server Host Health Test Hive Metastore Server monitoring setting.

Short Name: Host Health

### Hive Metastore Server Host Health Test

#### Description

When computing the overall Hive Metastore Server health, consider the host's health.

#### Template Name

hivemetastore\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Hive Metastore Server Log Directory Free Space

This Hive Metastore Server health test checks that the filesystem containing the log directory of this Hive Metastore Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Hive Metastore Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Hive Metastore Server Pause Duration

This Hive Metastore Server health test checks that the Hive Metastore Server threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Hive Metastore Server that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Hive Metastore Server is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Hive Metastore Server logs for any pause monitor output and check garbage collection metrics exposed by the Hive Metastore Server. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period Hive Metastore Server monitoring settings.

Short Name: Pause Duration

#### Pause Duration Monitoring Period

##### Description

The period to review when computing the moving average of extra time the pause monitor spent paused.

##### Template Name

hivemetastore\_pause\_duration\_window

##### Default Value

5

##### Unit(s)

MINUTES

#### Pause Duration Thresholds

##### Description

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

##### Template Name

hivemetastore\_pause\_duration\_thresholds

##### Default Value

critical:60.0, warning:30.0

##### Unit(s)

no unit

### Hive Metastore Server Process Status

This Hive Metastore Server health test checks that the Cloudera Manager Agent on the Hive Metastore Server host is heart beating correctly and that the process associated with the Hive Metastore Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Hive Metastore Server process, a lack of connectivity to the Cloudera Manager Agent on the Hive Metastore Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Hive Metastore Server has crashed or because the Hive Metastore Server will not start or stop in a timely fashion. Check the Hive Metastore Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Hive Metastore Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Hive Metastore Server host, or look in the Cloudera Manager Agent logs on the Hive Metastore Server host for more details. This test can be enabled or disabled using the Hive Metastore Server Process Health Test Hive Metastore Server monitoring setting.

Short Name: Process Status

### Hive Metastore Server Process Health Test

#### Description

Enables the health test that the Hive Metastore Server's process state is consistent with the role configuration

#### Template Name

`hivemetastore_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Hive Metastore Server Swap Memory Usage

This Hive Metastore Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Hive Metastore Server Swap Memory Usage Rate Beta

This Hive Metastore Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta



### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Hive Metastore Server Unexpected Exits

This Hive Metastore Server health test checks that the Hive Metastore Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Hive Metastore Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Hive on Tez Health Tests

### Hive on Tez Compaction System Health Check

This is compaction system health test that checks whether compaction processes are properly configured and operational. Failure of this health test could indicate a problem with the compaction that could severely degrade query performance. Use the guidelines below for troubleshooting.

- Oldest initiated compaction passed threshold: Check the last successful compactions in the SYS.COMPACTON view. If no compactions have finished recently, check the logs for errors in the Worker threads for either the Compactor Virtual Warehouse or in the DataHub clusters, if applicable. If compactions are running successfully, but there are many queued compactions, increase the number of Worker threads set for 'hive.compactor.worker.threads' in the Compactor Virtual Warehouse or DataHub clusters. Alternatively, you can increase the amount of available resources
- Large number of compaction failures: Many compactions are failing.
  1. Run `SELECT * FROM SYS.COMPACTIONS WHERE C_STATE IN ("failed", "did not initiate");` to check the error message in the sys.compaction table.
  2. Check the logs in the Compactor Virtual Warehouse for the "Caught exception while trying to compact" message.
- Oldest uncleaned compaction passed threshold: Compactor cleaner process cannot clean obsolete data.
  1. Check the metastore log to make sure the cleaner thread is running.
  2. Run `SHOW TRANSACTIONS;` to check if there are open transactions blocking the cleaner. If the blocking transactions are not of the 'type=REPL\_CREATED', they can be aborted by running `ABORT TRANSACTIONS *transactionID*;`
- Old aborted transaction not cleared: An old aborted transaction was not cleared. This can impact your overall query performance. This is most likely caused by an uncompact table. Check for failed compactions in the SYS.COMPACTON view.
- Tables/partitions with many aborts: At least one table or partition has not been compacted and have more than `hive.metastore.acidmetrics.table.aborted.txns.threshold` (default: 1500) aborts.
  1. Verify that the "hive.compactor.abortedtxn.threshold" is not set to a value higher than 1000.
  2. Find the affected table/partition by running `SELECT TC_DATABASE, TC_TABLE, TC_PARTITION, COUNT() FROM SYS.TRANSACTIONS WHERE STATE='aborted' GROUP BY TC_DATABASE, TC_TABLE, TC_PARTITION HAVING COUNT()*n;` Where n is the value of `hive.metastore.acidmetrics.table.aborted.txns.threshold`. The default is 1500.
  3. Check the SYS.COMPACTIONS table for compactions on this table or partition in the "did not initiate", "failed", or "ready for cleaning" state.
  4. Check the Compactor Virtual Warehouse logs for "compactor.Initiator errors associated with this table or partition.
  5. Manually initiate compaction on the table/partition by running `ALTER TABLE *table-name* [PARTITION (*partition-column*=*partition-value*) COMPACT 'minor';`
- Oldest open transaction passed threshold: A transaction has been open for longer than the set threshold. Stuck transactions can block cleaning obsolete files and ACID metadata, which can lead to performance degradation. Check for old open transactions with `SHOW TRANSACTIONS`. If these are not type=REPL\_CREATED, they can be aborted with `ABORT TRANSACTIONS *txnid*;`

- Oldest open replication transaction passed threshold: A replication transaction has been open longer than the set threshold. Stuck transactions can block cleaning of ACID metadata, which can lead to performance degradation. Before you abort a transaction that was created by replication, and which has been open a long time, make sure that the `hive.repl.txn.timeout` threshold has expired. If it has, there may be an issue with replication. Please contact Cloudera Support.
- Excessive ACID metadata: An excessive amount of Hive ACID metadata exists, which can cause serious performance degradation. Failing compactions or metadata cleanup service problems can cause this.
  1. Check for failed compactions by running `SELECT * FROM SYS.COMPACTIONS WHERE c_state IN ("failed", "did not initiate");` against the `SYS.COMPACTIONS` view.
  2. Search for failed compactions in the HiveServer2 logs, which are indicated with the message "Caught exception while trying to compact"
- Excessive ACID metadata: An excessive amount of Hive ACID metadata exists, which can cause serious performance degradation. Failing compactions or metadata cleanup service problems can cause this.
  1. Check for failed compactions by running `SELECT * FROM SYS.COMPACTIONS WHERE c_state IN ("failed", "did not initiate");` against the `SYS.COMPACTIONS` view.
  2. Search for failed compactions in the HiveServer2 logs, which are indicated with the message "Caught exception while trying to compact"
- Activity on table with disabled auto-compaction: A change has been made on a table where automated compaction is disabled. If this is not intended, re-enable compaction on the table by running `ALTER TABLE table_name SET TBLPROPERTIES ("no_auto_compaction" = "false");`
- Table/partition with large number of active delta directories There are tables with a large number of delta directories, which can cause performance degradation. Check the "Top 100 partitions or unpartitioned tables with the most active deltas" chart in CM to see affected tables and partitions. These tables and partitions should be compacted.
- Table/partition with large number of small delta directories There are tables with a large number of small delta directories, which can cause performance degradation. Check the "Top 100 partitions or unpartitioned tables with the most small deltas" chart in CM to see affected tables and partitions. These tables and partitions should be compacted.

This test can be configured using the Tables/Partitions with Large Number of Active Delta Directories Thresholds Hive monitoring settings.

Short Name: Compaction System Health Check

### Tables/Partitions with Large Number of Active Delta Directories Thresholds

#### Description

The health test thresholds for table/partition with large number of active delta directories.

#### Template Name

`hive_compaction_active_delta_thresholds`

#### Default Value

`CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:never, warning:200.0, [CDH 7.2.14..CDH 8.0.0)=critical:never, warning:200.0]`

#### Unit(s)

TIMES

### Tables/Partitions with Large Number of Small Delta Directories Thresholds

#### Description

The health test thresholds for table/partition with large number of small delta directories

#### Template Name

`hive_compaction_small_delta_thresholds`

#### Default Value

```
CDH=[[CDH 7.1.8..CDH 7.2.0)=critical:never, warning:200.0, [CDH 7.2.14..CDH
8.0.0)=critical:never, warning:200.0]
```

**Unit(s)**

TIMES

## Hive on Tez HiveServer2 Health

This is a Hive on Tez service-level health test that checks that enough of the HiveServer2s in the cluster are healthy. The test returns "Concerning" health if the number of healthy HiveServer2s falls below a warning threshold, expressed as a percentage of the total number of HiveServer2s. The test returns "Bad" health if the number of healthy and "Concerning" HiveServer2s falls below a critical threshold, expressed as a percentage of the total number of HiveServer2s. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 HiveServer2s, this test would return "Good" health if 95 or more HiveServer2s have good health. This test would return "Concerning" health if at least 90 HiveServer2s have either "Good" or "Concerning" health. If more than 10 HiveServer2s have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy HiveServer2s. Check the status of the individual HiveServer2s for more information. This test can be configured using the Hive on Tez Hive on Tez service-wide monitoring setting.

Short Name: HiveServer2 Health

### Healthy HiveServer2 Monitoring Thresholds

**Description**

The health test thresholds of the overall HiveServer2 health. The check returns "Concerning" health if the percentage of "Healthy" HiveServer2s falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" HiveServer2s falls below the critical threshold.

**Template Name**

hive\_on\_tez\_hiveserver2s\_healthy\_thresholds

**Default Value**

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## HiveServer2 Health Tests

### HiveServer2 Audit Pipeline Test

This HiveServer2 health test checks that the Auditing for the HiveServer2 role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of HiveServer2 process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the HiveServer2 host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check HiveServer2 monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**HiveServer2 File Descriptors**

This HiveServer2 health test checks that the number of file descriptors used does not rise above some percentage of the HiveServer2 file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds HiveServer2 monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**`hiveserver2_fd_thresholds`**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## HiveServer2 Heap Dump Directory Free Space

This HiveServer2 health test checks that the filesystem containing the heap dump directory of this HiveServer2 has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds HiveServer2 monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## HiveServer2 Hive Downloaded Resources Directory Free Space

This is a HiveServer2 health test that checks that the filesystem containing the Hive Downloaded Resources Directory of this HiveServer2 has sufficient free space. See the Hive Downloaded Resources Directory description on the HiveServer2 configuration page for more information on this directory type. This test can be configured using the Hive Downloaded Resources Directory Free Space Monitoring Absolute Thresholds and Hive Downloaded Resources Directory Free Space Monitoring Percentage Thresholds HiveServer2 monitoring settings.

Short Name: Hive Downloaded Resources Directory Free Space

### Hive Downloaded Resources Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Hive Downloaded Resources Directory.

#### Template Name

hiveserver2\_downloaded\_resources\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Hive Downloaded Resources Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Hive Downloaded Resources Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Hive Downloaded Resources Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

hiveserver2\_downloaded\_resources\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**HiveServer2 Hive Local Scratch Directory Free Space**

This is a HiveServer2 health test that checks that the filesystem containing the Hive Local Scratch Directory of this HiveServer2 has sufficient free space. See the Hive Local Scratch Directory description on the HiveServer2 configuration page for more information on this directory type. This test can be configured using the Hive Local Scratch Directory Free Space Monitoring Absolute Thresholds and Hive Local Scratch Directory Free Space Monitoring Percentage Thresholds HiveServer2 monitoring settings.

Short Name: Hive Local Scratch Directory Free Space

**Hive Local Scratch Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Hive Local Scratch Directory.

**Template Name**

hiveserver2\_exec\_local\_scratch\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Hive Local Scratch Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Hive Local Scratch Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Hive Local Scratch Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

hiveserver2\_exec\_local\_scratch\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## HiveServer2 Host Health

This HiveServer2 health test factors in the health of the host upon which the HiveServer2 is running. A failure of this test means that the host running the HiveServer2 is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the HiveServer2 Host Health Test HiveServer2 monitoring setting.

Short Name: Host Health

### HiveServer2 Host Health Test

#### Description

When computing the overall HiveServer2 health, consider the host's health.

#### Template Name

hiveserver2\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## HiveServer2 Log Directory Free Space

This HiveServer2 health test checks that the filesystem containing the log directory of this HiveServer2 has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds HiveServer2 monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT



## HiveServer2 Pause Duration

This HiveServer2 health test checks that the HiveServer2 threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the HiveServer2 that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the HiveServer2 is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the HiveServer2 logs for any pause monitor output and check garbage collection metrics exposed by the HiveServer2. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period HiveServer2 monitoring settings.

Short Name: Pause Duration

### Pause Duration Monitoring Period

#### Description

The period to review when computing the moving average of extra time the pause monitor spent paused.

#### Template Name

hiveserver2\_pause\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Pause Duration Thresholds

#### Description

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

#### Template Name

hiveserver2\_pause\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

## HiveServer2 Process Status

This HiveServer2 health test checks that the Cloudera Manager Agent on the HiveServer2 host is heart beating correctly and that the process associated with the HiveServer2 role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the HiveServer2 process, a lack of connectivity to the Cloudera Manager Agent on the HiveServer2 host, or a problem with the Cloudera Manager Agent. This test can fail either because the HiveServer2 has crashed or because the HiveServer2 will not start or stop in a timely fashion. Check the HiveServer2 logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the HiveServer2 host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the HiveServer2 host, or look in the Cloudera Manager Agent logs on the HiveServer2 host for more details. This test can be enabled or disabled using the HiveServer2 Process Health Test HiveServer2 monitoring setting.

Short Name: Process Status

### HiveServer2 Process Health Test

#### Description

Enables the health test that the HiveServer2's process state is consistent with the role configuration

**Template Name**

hiveserver2\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## HiveServer2 Swap Memory Usage

This HiveServer2 health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## HiveServer2 Swap Memory Usage Rate Beta

This HiveServer2 health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## HiveServer2 Unexpected Exits

This HiveServer2 health test checks that the HiveServer2 has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period HiveServer2 monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Host Health Tests

### Host Agent Log Directory

This is a host health test that checks that the filesystem containing the Cloudera Manager Agent's log directory has sufficient free space. This test can be configured using the Cloudera Manager Agent Log Directory Free Space Monitoring Absolute Thresholds and Cloudera Manager Agent Log Directory Free Space Monitoring Percentage Thresholds host monitoring settings.

Short Name: Agent Log Directory

### Cloudera Manager Agent Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health check thresholds for monitoring of free space on the filesystem that contains the Cloudera Manager Agent's log directory.

#### Template Name

host\_agent\_log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:1.073741824E9, warning:2.147483648E9

#### Unit(s)

BYTES

### Cloudera Manager Agent Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health check thresholds for monitoring of free space on the filesystem that contains the Cloudera Manager Agent's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Cloudera Manager Agent Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

host\_agent\_log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Host Agent Parcel Directory

This is a host health test that checks whether the filesystem containing the Cloudera Manager Agent's parcel directory has sufficient free space. This test can be configured using the Cloudera Manager Agent Parcel Directory Free Space Monitoring Absolute Thresholds and Cloudera Manager Agent Parcel Directory Free Space Monitoring Percentage Thresholds host monitoring settings.

Short Name: Agent Parcel Directory

### Cloudera Manager Agent Parcel Directory Free Space Monitoring Absolute Thresholds

#### Description

The health check thresholds for monitoring of free space on the filesystem that contains the Cloudera Manager Agent's parcel directory.

#### Template Name

host\_agent\_parcel\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Cloudera Manager Agent Parcel Directory Free Space Monitoring Percentage Thresholds

#### Description

The health check thresholds for monitoring of free space on the filesystem that contains the Cloudera Manager Agent's parcel directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Cloudera Manager Agent Parcel Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

host\_agent\_parcel\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Host Agent Process Directory

This is a host health test that checks that the filesystem containing the Cloudera Manager Agent's process directory has sufficient free space. The process directory contains the configuration files for the processes which the Cloudera Manager Agent starts. This test can be configured using the Cloudera Manager Agent Process Directory Free Space Monitoring Absolute Thresholds and Cloudera Manager Agent Process Directory Free Space Monitoring Percentage Thresholds host monitoring settings.

Short Name: Agent Process Directory

### Cloudera Manager Agent Process Directory Free Space Monitoring Absolute Thresholds

**Description**

The health check thresholds for monitoring of free space on the filesystem that contains the Cloudera Manager Agent's process directory.

**Template Name**

host\_agent\_process\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:1.048576E8, warning:2.097152E8

**Unit(s)**

BYTES

### Cloudera Manager Agent Process Directory Free Space Monitoring Percentage Thresholds

**Description**

The health check thresholds for monitoring of free space on the filesystem that contains the Cloudera Manager Agent's process directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Cloudera Manager Agent Process Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

host\_agent\_process\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Host Agent Status

This is a host health test that checks that the host's Cloudera Manager Agent is heartbeating correctly to the Cloudera Manager Server, is in contact with the Host Monitor, and has the correct software version. A failure of this health test may indicate a lack of connectivity between the host's Cloudera Manager Agent and the Cloudera Manager Server, a

lack of connectivity between the host's Cloudera Manager Agent and the Host Monitor, or that the Cloudera Manager Agent or Host Monitor software is out of date. Check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the host, or look in the host's Cloudera Manager Agent logs for more details. If this test reports a software version mismatch between the Cloudera Manager Agent and the Host Monitor, check the version of each component by consulting the appropriate logs or the appropriate status web pages. This test can be enabled or disabled using the Host Process Health Test host configuration setting.

Short Name: Agent Status

### Host Process Health Test

#### Description

Enables the health test that the host's process state is consistent with the role configuration

#### Template Name

`host_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Host Certificate Expiration

This health test checks the expiry time of the TLS certificate for the Cloudera Manager Agent on the given host. This test can be configured using the Cloudera Manager Agent TLS Certificate Expiry Thresholds host monitoring setting. This test alerts when the certificate is close to expiry.

Short Name: Certificate Expiration

### Cloudera Manager Agent TLS Certificate Expiry Thresholds

#### Description

The health test thresholds for monitoring the certificate of Cloudera Manager Agent.

#### Template Name

`host_agent_certificate_expiry_thresholds`

#### Default Value

`critical:7.0, warning:60.0`

#### Unit(s)

`DAYS`

### Host Clock Offset

This is a host health test that checks whether the host's system clock appears to be out-of-sync with its NTP server(s). The test uses either the `'ntpq -np'` (if `ntpd` is running) or `'chronyc sources'` (if `chronyd` is running) command to check that whether the host is synchronized to an NTP peer and that the absolute value of the host's clock offset from that peer is not too large. The test returns "Bad" health if the command fails to find a synchronized NTP peer or an offset between the peer and the host time is too large. To troubleshoot, run `'ntpq -np'` or `'chronyc sources'` on the host. The output should contain a row for each of the host's NTP servers. The row starting with a `'*'` (if `ntpd`) or `'^*'` (if `chronyc`) contains the peer to which the host is currently synchronized. If no row starts with a `'*'` or `'^*'`, this indicates that the host is not currently synchronized. Make sure you have a pool of valid ntp servers in your `ntp.conf` (if `ntpd`) or `chrony.conf` (if `chronyc`). Make sure that UDP port 123 is open on any firewall that is in use. Check the system log for `ntpd` or `chronyd` messages related to configuration errors. If the issue persists or the offset between the peer and the host time is too large, please seek assistance from your system administrator. If NTP is not in use on the host, disable this check by setting both 'Warning' and 'Critical' thresholds to 'NEVER' using the configuration options

shown below for the host. Cloudera recommends using NTP for time synchronization of Hadoop clusters. This test can be configured using the Host Clock Offset Thresholds host configuration setting.

Short Name: Clock Offset

### Host Clock Offset Thresholds

#### Description

The thresholds for the host clock offset health test. The test compares this threshold against the absolute value of the clock offset reported by the host's NTP service from the 'ntpd -np' or 'chronyc sources' command. Setting both the warning and critical threshold values to never turns off collection of the clock offset by the Cloudera Manager Agent. If no time synchronization is in use, both threshold values should be set to never. Cloudera recommends using NTP for time synchronization of Hadoop clusters.

#### Template Name

host\_clock\_offset\_thresholds

#### Default Value

critical:10000.0, warning:3000.0

#### Unit(s)

MILLISECONDS

### Host DNS Resolution

This is a host health test that checks that the host's hostname and canonical name are consistent when checked from a Java process, and that the DNS resolution completes in a timely manner. The DNS resolution duration is calculated by measuring the time taken to call `getLocalHost` in a Java process on this host. Note that DNS information may be cached on the host, and this caching can affect the reported resolution duration. A failure of this health test may indicate that the host's DNS configuration is not correct or the host's DNS server is responding slowly. Check the Cloudera Manager Agent log for the names that were detected by this test or for errors running the Java process. The hostname and canonical name are considered to be consistent if the hostname or the hostname plus a domain name is the same as the canonical name. This health test uses domain names from the domain and search lines in `/etc/resolv.conf`. This health test does not consult `/etc/nsswitch.conf` and may give incorrect results if `/etc/resolv.conf` is not used by the host. There may be a delay of up to 5 minutes before this health test picks up changes to `/etc/resolv.conf`. This test can be configured using the Hostname and Canonical Name Health Check host configuration setting.

Short Name: DNS Resolution

### Hostname and Canonical Name Health Check

#### Description

Whether the hostname and canonical names for this host are consistent when checked from a Java process.

#### Template Name

host\_dns\_resolution\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Host Entropy

This is a health test that checks that the host in a cluster has sufficient entropy. A failure of this health may indicate that entropy pool is depleted, which might cause applications waiting for the randomness to pause until more entropy

is available. Random connection timeout issues usually happen when the available entropy count reaches zero. Increase the entropy using rng-tools for the host. This test can be configured using the Host Entropy Thresholds host configuration settings.

Short Name: Entropy

### Host Entropy Thresholds

#### Description

The health check thresholds for the available entropy on the host.

#### Template Name

host\_available\_entropy\_thresholds

#### Default Value

critical:50.0, warning:100.0

#### Unit(s)

no unit

### Host Frame Errors

This is a host health test that checks for network frame errors across all network interfaces. A failure of this health test may indicate a problem with network hardware (e.g. switches) and can potentially cause other service or role-level performance problems. Check the host and network hardware logs for more details. This test can be configured using the Host Network Frame Error Percentage Thresholds, Host Network Frame Error Check Window, Host Network Frame Error Test Minimum Required Packets host configuration settings.

Short Name: Frame Errors

### Host Network Frame Error Check Window

#### Description

The amount of time over which the host frame error checks for frame errors.

#### Template Name

host\_network\_frame\_errors\_window

#### Default Value

15

#### Unit(s)

MINUTES

### Host Network Frame Error Percentage Thresholds

#### Description

The health check thresholds for the percentage of received packets that are frame errors.

#### Template Name

host\_network\_frame\_errors\_thresholds

#### Default Value

critical:0.5, warning:any

#### Unit(s)

PERCENT

### Host Network Frame Error Test Minimum Required Packets

#### Description



The minimum number of received packets that must be received within the test window for this test to return "Bad" health. If less than this number of packets is received during the test window, the health check will never return "Bad" health.

**Template Name**

host\_network\_frame\_errors\_floor

**Default Value**

0

**Unit(s)**

no unit

## Host Network Interface Speed

This is a host health test that checks for network interfaces that appear to be operating at less than full speed. The Cloudera Manager Agent uses `ethtool ioctl` to determine the network interface speed and duplex mode. A failure of this health test may indicate that network interface(s) may be configured incorrectly and may be causing performance problems. Use the `ethtool` command to check and configure the host's network interfaces to use the fastest available link speed and duplex mode. For inactive interfaces or for interfaces that do not support `ethtool ioctl`, the Cloudera Manager Agent cannot collect speed metrics. If the Cloudera Manager Agent fails to collect speed metrics for all network interfaces on the host, the test is disabled. This test can be configured using the Host's Network Interfaces Slow Link Modes Thresholds, Network Interface Expected Link Speed and Network Interface Expected Duplex Mode host configuration settings.

Short Name: Network Interface Speed

### Host's Network Interfaces Slow Link Modes Thresholds

**Description**

The thresholds for the health check of the number of network interfaces that appear to be operating at less than full speed.

**Template Name**

host\_network\_interfaces\_slow\_mode\_thresholds

**Default Value**

critical:never, warning:any

**Unit(s)**

no unit

### Network Interface Expected Duplex Mode

**Description**

The expected duplex mode for network interfaces.

**Template Name**

host\_nic\_expected\_duplex\_mode

**Default Value**

Full

**Unit(s)**

no unit

### Network Interface Expected Link Speed

**Description**

The expected network interface link speed.

**Template Name**

|                      |                         |
|----------------------|-------------------------|
|                      | host_nic_expected_speed |
| <b>Default Value</b> | 1000                    |
| <b>Unit(s)</b>       | no unit                 |

## Host Swapping

This is a health test that checks that the host has not swapped out more than a certain number of pages over the last fifteen minutes. A failure of this health test may indicate misconfiguration of the host operating system, or too many processes running on the host. Try reducing `vm.swappiness`, or add more memory to the host. This test can be configured using the Host Memory Swapping Thresholds, Host Memory Swapping Check Window host configuration settings.

Short Name: Swapping

### Host Memory Swapping Check Window

#### Description

The amount of time over which the memory swapping test checks for pages swapped.

#### Template Name

host\_memswap\_window

#### Default Value

15

#### Unit(s)

MINUTES

### Host Memory Swapping Thresholds

#### Description

The health test thresholds of the number of pages swapped out on the host in the last 15 minutes

#### Template Name

host\_memswap\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

PAGES

## Host Monitor Health Tests

### Host Monitor Audit Pipeline Test

This Host Monitor health test checks that the Auditing for the Host Monitor role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Host Monitor process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Host Monitor host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Host Monitor monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Host Monitor Cloudera Manager Descriptor Age

This is a Host Monitor health test that checks if the Cloudera Manager descriptor has been refreshed recently. The Cloudera Manager descriptor is used to pass configuration information from the Cloudera Manager Server to the Host Monitor. If the descriptor becomes stale, Host Monitor operation may be impacted because the Host Monitor will receive information about new hosts, roles, and services, or changes to existing hosts, roles, and services. A stale descriptor usually indicates problems communicating with the Cloudera Manager Server but can also indicate performance problems or a bug. Consult the Host Monitor log and the Cloudera Manager Server log for more information. This test can be configured using the Cloudera Manager Descriptor Age Thresholds Cloudera Manager Host Monitor setting.

Short Name: Cloudera Manager Descriptor Age

### Cloudera Manager Descriptor Age Thresholds

#### Description

The health test thresholds for monitoring the time since the Cloudera Manager descriptor was last refreshed.

**Template Name**

scm\_descriptor\_age\_thresholds

**Default Value**

critical:120000.0, warning:60000.0

**Unit(s)**

no unit

## Host Monitor Cloudera Manager Metric Schema Age

This is a Host Monitor health test that checks if the Cloudera Manager metric schema has been refreshed recently. If the metric schema becomes stale, Host Monitor operation may be impacted because the Host Monitor will not receive information about new metrics and changes to existing metrics. A stale metric schema usually indicates problems communicating with the Cloudera Manager Server but can also indicate performance problems or a bug. Consult the Host Monitor log and the Cloudera Manager Server log for more information. This test can be configured using the Cloudera Manager Metric Schema Age Thresholds Cloudera Manager Host Monitor setting.

Short Name: Cloudera Manager Metric Schema Age

### Cloudera Manager Metric Schema Age Thresholds

**Description**

The health test thresholds for monitoring the time since the Cloudera Manager metric schema was last refreshed.

**Template Name**

metric\_schema\_age\_thresholds\_name

**Default Value**

critical:120000.0, warning:60000.0

**Unit(s)**

no unit

## Host Monitor File Descriptors

This Host Monitor health test checks that the number of file descriptors used does not rise above some percentage of the Host Monitor file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Host Monitor monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

hostmonitor\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Host Monitor Heap Dump Directory Free Space

This Host Monitor health test checks that the filesystem containing the heap dump directory of this Host Monitor has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Host Monitor monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Host Monitor Host Health

This Host Monitor health test factors in the health of the host upon which the Host Monitor is running. A failure of this test means that the host running the Host Monitor is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Host Monitor Host Health Test Host Monitor monitoring setting.

Short Name: Host Health

### Host Monitor Host Health Test

#### Description

When computing the overall Host Monitor health, consider the host's health.

#### Template Name

hostmonitor\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Host Monitor Host Monitor Storage Directory Free Space

This is a Host Monitor health test that checks that the filesystem containing the Host Monitor Storage Directory of this Host Monitor has sufficient free space. See the Host Monitor Storage Directory description on the Host Monitor configuration page for more information on this directory type. This test can be configured using the Host Monitor Storage Directory Free Space Monitoring Absolute Thresholds and Host Monitor Storage Directory Free Space Monitoring Percentage Thresholds Host Monitor monitoring settings.

Short Name: Host Monitor Storage Directory Free Space

### Host Monitor Storage Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Host Monitor Storage Directory.

#### Template Name

firehose\_storage\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Host Monitor Storage Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Host Monitor Storage Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Host Monitor Storage Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

firehose\_storage\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Host Monitor Host Pipeline

This Host Monitor health test checks that no messages are being dropped by the host stage of the Host Monitor pipeline. A failure of this health test indicates a problem with the Host Monitor. This may indicate a configuration problem or a bug in the Host Monitor. This test can be configured using the Host Monitor Host Pipeline Monitoring Time Period monitoring setting.

Short Name: Host Pipeline

### Host Monitor Host Pipeline Monitoring Thresholds

#### Description

The health test thresholds for monitoring the Host Monitor host pipeline. This specifies the number of dropped messages that will be tolerated over the monitoring time period.

#### Template Name

hostmonitor\_host\_pipeline\_thresholds

#### Default Value

critical:any, warning:never

**Unit(s)**

no unit

**Host Monitor Host Pipeline Monitoring Time Period****Description**

The time period over which the Host Monitor host pipeline will be monitored for dropped messages.

**Template Name**

hostmonitor\_host\_pipeline\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Host Monitor Log Directory Free Space**

This Host Monitor health test checks that the filesystem containing the log directory of this Host Monitor has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Host Monitor monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Host Monitor Metrics Aggregation Run Duration Test**

This is a Host Monitor health test that checks whether Cloudera Manager's aggregation run durations are within the thresholds. If the test fails, Host Monitor operation may be impacted because the Host Monitor is not able to

process the metrics fast enough. This test can be configured using the Metrics Aggregation Run Duration Thresholds Cloudera Manager Host Monitor setting.

Short Name: Metrics Aggregation Run Duration Test

### Metrics Aggregation Run Duration Thresholds

#### Description

The health test thresholds for monitoring the metrics aggregation run duration.

#### Template Name

aggregation\_run\_duration\_thresholds

#### Default Value

critical:30000.0, warning:10000.0

#### Unit(s)

MILLISECONDS

## Host Monitor Pause Duration

This Host Monitor health test checks that the Host Monitor threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Host Monitor that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Host Monitor is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Host Monitor logs for any pause monitor output and check garbage collection metrics exposed by the Host Monitor. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period Host Monitor monitoring settings.

Short Name: Pause Duration

### Pause Duration Monitoring Period

#### Description

The period to review when computing the moving average of extra time the pause monitor spent paused.

#### Template Name

hostmonitor\_pause\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Pause Duration Thresholds

#### Description

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

#### Template Name

hostmonitor\_pause\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit



## Host Monitor Process Status

This Host Monitor health test checks that the Cloudera Manager Agent on the Host Monitor host is heart beating correctly and that the process associated with the Host Monitor role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Host Monitor process, a lack of connectivity to the Cloudera Manager Agent on the Host Monitor host, or a problem with the Cloudera Manager Agent. This test can fail either because the Host Monitor has crashed or because the Host Monitor will not start or stop in a timely fashion. Check the Host Monitor logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Host Monitor host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Host Monitor host, or look in the Cloudera Manager Agent logs on the Host Monitor host for more details. This test can be enabled or disabled using the Host Monitor Process Health Test Host Monitor monitoring setting.

Short Name: Process Status

### Host Monitor Process Health Test

#### Description

Enables the health test that the Host Monitor's process state is consistent with the role configuration

#### Template Name

`hostmonitor_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Host Monitor Swap Memory Usage

This Host Monitor health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Host Monitor Swap Memory Usage Rate Beta

This Host Monitor health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Host Monitor Unexpected Exits

This Host Monitor health test checks that the Host Monitor has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Host Monitor monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Host Monitor Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Host Monitor, a misconfiguration of the Host Monitor, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Host Monitor for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Host Monitor's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Host Monitor's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Host Monitor monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

**Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**

```
hostmonitor_web_metric_collection_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

### Web Metric Collection Duration

**Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

```
hostmonitor_web_metric_collection_thresholds
```

**Default Value**

```
critical:never, warning:10000.0
```

**Unit(s)**

```
MILLISECONDS
```

## HttpFS Health Tests

### HttpFS Audit Pipeline Test

This HttpFS health test checks that the Auditing for the HttpFS role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of HttpFS process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the HttpFS host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit

Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check HttpFS monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## HttpFS File Descriptors

This HttpFS health test checks that the number of file descriptors used does not rise above some percentage of the HttpFS file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds HttpFS monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

httpfs\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## HttpFS Heap Dump Directory Free Space

This HttpFS health test checks that the filesystem containing the heap dump directory of this HttpFS has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds HttpFS monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## HttpFS Host Health

This HttpFS health test factors in the health of the host upon which the HttpFS is running. A failure of this test means that the host running the HttpFS is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the HttpFS Host Health Test HttpFS monitoring setting.

Short Name: Host Health

### HttpFS Host Health Test

**Description**

When computing the overall HttpFS health, consider the host's health.

**Template Name**

httpfs\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## HttpFS Log Directory Free Space

This HttpFS health test checks that the filesystem containing the log directory of this HttpFS has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds HttpFS monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## HttpFS Process Status

This HttpFS health test checks that the Cloudera Manager Agent on the HttpFS host is heart beating correctly and that the process associated with the HttpFS role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the HttpFS process, a lack of connectivity to the Cloudera Manager Agent on the HttpFS host, or a problem with the Cloudera Manager Agent. This test can fail either because the HttpFS has crashed or because the HttpFS will not start or stop in a timely fashion. Check the HttpFS logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the HttpFS host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the HttpFS host, or look in the Cloudera Manager Agent logs on the HttpFS host for more details. This test can be enabled or disabled using the HttpFS Process Health Test HttpFS monitoring setting.

Short Name: Process Status

### HttpFS Process Health Test

#### Description

Enables the health test that the HttpFS's process state is consistent with the role configuration

#### Template Name

httpfs\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### HttpFS Swap Memory Usage

This HttpFS health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### HttpFS Swap Memory Usage Rate Beta

This HttpFS health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## HttpFS Unexpected Exits

This HttpFS health test checks that the HttpFS has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period HttpFS monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Hue Health Tests

### Hue Kerberos Ticket Renewer Health



This is a Hue service-level health test that checks that enough of the Kerberos Ticket Renewers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Kerberos Ticket Renewers falls below a warning threshold, expressed as a percentage of the total number of Kerberos Ticket Renewers. The test returns "Bad" health if the number of healthy and "Concerning" Kerberos Ticket Renewers falls below a critical threshold, expressed as a percentage of the total number of Kerberos Ticket Renewers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Kerberos Ticket Renewers, this test would return "Good" health if 95 or more Kerberos Ticket Renewers have good health. This test would return "Concerning" health if at least 90 Kerberos Ticket Renewers have either "Good" or "Concerning" health. If more than 10 Kerberos Ticket Renewers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Kerberos Ticket Renewers. Check the status of the individual Kerberos Ticket Renewers for more information. This test can be configured using the Hue Hue service-wide monitoring setting.

Short Name: Kerberos Ticket Renewer Health

### Healthy Kerberos Ticket Renewer Monitoring Thresholds

#### Description

The health test thresholds of the overall Kerberos Ticket Renewer health. The check returns "Concerning" health if the percentage of "Healthy" Kerberos Ticket Renewers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Kerberos Ticket Renewers falls below the critical threshold.

#### Template Name

hue\_kt\_renewers\_healthy\_thresholds

#### Default Value

critical:51.0, warning:99.0

#### Unit(s)

PERCENT

### Hue Load Balancer Health

This is a Hue service-level health test that checks that enough of the Load Balancers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Load Balancers falls below a warning threshold, expressed as a percentage of the total number of Load Balancers. The test returns "Bad" health if the number of healthy and "Concerning" Load Balancers falls below a critical threshold, expressed as a percentage of the total number of Load Balancers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Load Balancers, this test would return "Good" health if 95 or more Load Balancers have good health. This test would return "Concerning" health if at least 90 Load Balancers have either "Good" or "Concerning" health. If more than 10 Load Balancers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Load Balancers. Check the status of the individual Load Balancers for more information. This test can be configured using the Hue Hue service-wide monitoring setting.

Short Name: Load Balancer Health

### Healthy Load Balancer Monitoring Thresholds

#### Description

The health test thresholds of the overall Load Balancer health. The check returns "Concerning" health if the percentage of "Healthy" Load Balancers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Load Balancers falls below the critical threshold.

#### Template Name

hue\_load\_balancer\_healthy\_thresholds

#### Default Value

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## Hue Server Health

This is a Hue service-level health test that checks that enough of the Hue Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Hue Servers falls below a warning threshold, expressed as a percentage of the total number of Hue Servers. The test returns "Bad" health if the number of healthy and "Concerning" Hue Servers falls below a critical threshold, expressed as a percentage of the total number of Hue Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Hue Servers, this test would return "Good" health if 95 or more Hue Servers have good health. This test would return "Concerning" health if at least 90 Hue Servers have either "Good" or "Concerning" health. If more than 10 Hue Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Hue Servers. Check the status of the individual Hue Servers for more information. This test can be configured using the Hue service-wide monitoring setting.

Short Name: Hue Server Health

### Healthy Hue Server Monitoring Thresholds

**Description**

The health test thresholds of the overall Hue Server health. The check returns "Concerning" health if the percentage of "Healthy" Hue Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Hue Servers falls below the critical threshold.

**Template Name**

hue\_hue\_servers\_healthy\_thresholds

**Default Value**

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## Hue Server Health Tests

### Hue Server Audit Pipeline Test

This Hue Server health test checks that the Auditing for the Hue Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Hue Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Hue Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Hue Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

`critical:any, warning:never`

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

`true`

**Unit(s)**

no unit

**Hue Server File Descriptors**

This Hue Server health test checks that the number of file descriptors used does not rise above some percentage of the Hue Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Hue Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`hue_server_fd_thresholds`

**Default Value**

`critical:70.0, warning:50.0`

**Unit(s)**

PERCENT

**Hue Server Heap Dump Directory Free Space**

This Hue Server health test checks that the filesystem containing the heap dump directory of this Hue Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Hue Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Hue Server Host Health

This Hue Server health test factors in the health of the host upon which the Hue Server is running. A failure of this test means that the host running the Hue Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Hue Server Host Health Test Hue Server monitoring setting.

Short Name: Host Health

### Hue Server Host Health Test

#### Description

When computing the overall Hue Server health, consider the host's health.

#### Template Name

hue\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Hue Server Log Directory Free Space

This Hue Server health test checks that the filesystem containing the log directory of this Hue Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Hue Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Hue Server Process Status

This Hue Server health test checks that the Cloudera Manager Agent on the Hue Server host is heart beating correctly and that the process associated with the Hue Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Hue Server process, a lack of connectivity to the Cloudera Manager Agent on the Hue Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Hue Server has crashed or because the Hue Server will not start or stop in a timely fashion. Check the Hue Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Hue Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Hue Server host, or look in the Cloudera Manager Agent logs on the Hue Server host for more details. This test can be enabled or disabled using the Hue Server Process Health Test Hue Server monitoring setting.

Short Name: Process Status

### Hue Server Process Health Test

#### Description

Enables the health test that the Hue Server's process state is consistent with the role configuration

#### Template Name

hue\_server\_scm\_health\_enabled

#### Default Value

true

**Unit(s)**

no unit

## Hue Server Swap Memory Usage

This Hue Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

BYTES

## Hue Server Swap Memory Usage Rate Beta

This Hue Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

5

**Unit(s)**

MINUTES

## Hue Server Unexpected Exits

This Hue Server health test checks that the Hue Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Hue Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Hue Server Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Hue Server, a misconfiguration of the Hue Server, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Hue Server for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Hue Server's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Hue Server's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Hue Server monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

```
hue_server_web_metric_collection_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

```
hue_server_web_metric_collection_thresholds
```

**Default Value**

```
critical:never, warning:10000.0
```

**Unit(s)**

```
MILLISECONDS
```

## Impala Health Tests

### Impala Catalog Server Health

This Impala service-level health test checks for the presence of a running, healthy Impala Catalog Server. The test returns "Bad" health if the service is running and the Impala Catalog Server is not running. In all other cases it returns the health of the Impala Catalog Server. A failure of this health test indicates a stopped or unhealthy Impala Catalog Server. Check the status of the Impala Catalog Server for more information. This test can be enabled or disabled using the Impala Catalog Server Role Health Test Impala Catalog Server service-wide monitoring setting.

Short Name: Impala Catalog Server Health

**Impala Catalog Server Role Health Test****Description**

When computing the overall IMPALA health, consider Impala Catalog Server's health

**Template Name**

```
impala_catalogserver_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

### Impala Daemon Health

This is a Impala service-level health test that checks that enough of the Impala Daemons in the cluster are healthy. The test returns "Concerning" health if the number of healthy Impala Daemons falls below a warning threshold, expressed as a percentage of the total number of Impala Daemons. The test returns "Bad" health if the number of healthy and "Concerning" Impala Daemons falls below a critical threshold, expressed as a percentage of the total number of Impala Daemons. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Impala Daemons, this test would return "Good" health if 95 or more Impala Daemons have good health. This test would return "Concerning" health if at least 90 Impala Daemons have either "Good" or "Concerning" health. If more than 10 Impala Daemons have bad health, this test would return "Bad"



health. A failure of this health test indicates unhealthy Impala Daemons. Check the status of the individual Impala Daemons for more information. This test can be configured using the Impala Impala service-wide monitoring setting.

Short Name: Impala Daemon Health

### Healthy Impala Daemon Monitoring Thresholds

#### Description

The health test thresholds of the overall Impala Daemon health. The check returns "Concerning" health if the percentage of "Healthy" Impala Daemons falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Impala Daemons falls below the critical threshold.

#### Template Name

impala\_impalads\_healthy\_thresholds

#### Default Value

critical:90.0, warning:95.0

#### Unit(s)

PERCENT

## Impala Llama ApplicationMaster Health

This is a Impala service-level health test that checks that enough of the Impala Llama ApplicationMasters in the cluster are healthy. The test returns "Concerning" health if the number of healthy Impala Llama ApplicationMasters falls below a warning threshold, expressed as a percentage of the total number of Impala Llama ApplicationMasters. The test returns "Bad" health if the number of healthy and "Concerning" Impala Llama ApplicationMasters falls below a critical threshold, expressed as a percentage of the total number of Impala Llama ApplicationMasters. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Impala Llama ApplicationMasters, this test would return "Good" health if 95 or more Impala Llama ApplicationMasters have good health. This test would return "Concerning" health if at least 90 Impala Llama ApplicationMasters have either "Good" or "Concerning" health. If more than 10 Impala Llama ApplicationMasters have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Impala Llama ApplicationMasters. Check the status of the individual Impala Llama ApplicationMasters for more information. This test can be configured using the Impala Impala service-wide monitoring setting.

Short Name: Impala Llama ApplicationMaster Health

### Healthy Impala Llama ApplicationMaster Monitoring Thresholds

#### Description

The health test thresholds of the overall Impala Llama ApplicationMaster health. The check returns "Concerning" health if the percentage of "Healthy" Impala Llama ApplicationMasters falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Impala Llama ApplicationMasters falls below the critical threshold.

#### Template Name

impala\_llamas\_healthy\_thresholds

#### Default Value

critical:51.0, warning:99.0

#### Unit(s)

PERCENT

## Impala StateStore Health

This Impala service-level health test checks for the presence of a running, healthy Impala StateStore. The test returns "Bad" health if the service is running and the Impala StateStore is not running. In all other cases it returns the health

of the Impala StateStore. A failure of this health test indicates a stopped or unhealthy Impala StateStore. Check the status of the Impala StateStore for more information. This test can be enabled or disabled using the Impala StateStore Role Health Test Impala StateStore service-wide monitoring setting.

Short Name: Impala StateStore Health

### Impala StateStore Role Health Test

#### Description

When computing the overall IMPALA health, consider Impala StateStore's health

#### Template Name

impala\_statestore\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Impala Catalog Server Health Tests

### Impala Catalog Server Audit Pipeline Test

This Impala Catalog Server health test checks that the Auditing for the Impala Catalog Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Impala Catalog Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Impala Catalog Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Impala Catalog Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Impala Catalog Server File Descriptors**

This Impala Catalog Server health test checks that the number of file descriptors used does not rise above some percentage of the Impala Catalog Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Impala Catalog Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

catalogserver\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Impala Catalog Server Heap Dump Directory Free Space**

This Impala Catalog Server health test checks that the filesystem containing the heap dump directory of this Impala Catalog Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Impala Catalog Server monitoring settings.

Short Name: Heap Dump Directory Free Space

**Heap Dump Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Heap Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Impala Catalog Server Host Health**

This Impala Catalog Server health test factors in the health of the host upon which the Impala Catalog Server is running. A failure of this test means that the host running the Impala Catalog Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Impala Catalog Server Host Health Test Impala Catalog Server monitoring setting.

Short Name: Host Health

**Impala Catalog Server Host Health Test****Description**

When computing the overall Impala Catalog Server health, consider the host's health.

**Template Name**

catalogserver\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Impala Catalog Server Log Directory Free Space**

This Impala Catalog Server health test checks that the filesystem containing the log directory of this Impala Catalog Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Impala Catalog Server monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Impala Catalog Server Process Status**

This Impala Catalog Server health test checks that the Cloudera Manager Agent on the Impala Catalog Server host is heart beating correctly and that the process associated with the Impala Catalog Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Impala Catalog Server process, a lack of connectivity to the Cloudera Manager Agent on the Impala Catalog Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Impala Catalog Server has crashed or because the Impala Catalog Server will not start or stop in a timely fashion. Check the Impala Catalog Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Impala Catalog Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Impala Catalog Server host, or look in the Cloudera Manager Agent logs on the Impala Catalog Server host for more details. This test can be enabled or disabled using the Impala Catalog Server Process Health Test Impala Catalog Server monitoring setting.

Short Name: Process Status

**Impala Catalog Server Process Health Test****Description**

Enables the health test that the Impala Catalog Server's process state is consistent with the role configuration

**Template Name**

catalogserver\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Impala Catalog Server Resident Set Size**

This Impala Catalog Server health test checks that the size of the resident set does not rise above a configured threshold value. A failure of this health test may indicate that the Impala Catalog Server process is consuming more memory than expected. It is possible that that unexpected memory consumption may lead to swapping and decreased performance for processes running on the same host as this Impala Catalog Server. Increased Impala Catalog Server memory consumption may be caused by an increased workload on the Impala service, or by a bug in the Impala Catalog Server software. To avoid failures of this health test, free up additional memory for this Impala Catalog

Server process and increase the Resident Set Size Thresholds monitoring setting. This test can be configured using the Resident Set Size Thresholds Impala Catalog Server monitoring setting.

Short Name: Resident Set Size

### Resident Set Size Thresholds

#### Description

The health test thresholds on the resident size of the process.

#### Template Name

`process_resident_set_size_thresholds`

#### Default Value

`critical:never, warning:never`

#### Unit(s)

BYTES

## Impala Catalog Server StateStore Connectivity

This is a Catalog Server health test that checks whether the StateStore considers the Catalog Server alive. A failure of this health test may indicate that the Catalog Server is having trouble communicating with the StateStore. Look in the Catalog Server logs for more details. This test may return an unknown result if the Service Monitor is not able to communicate with the StateStore web server. Check the status of the StateStore web server and the Service Monitor logs if this test is returning an unknown result. This test can be enabled or disabled using the Catalog Server Connectivity Health Test Catalog Server monitoring setting. The Catalog Server Connectivity Tolerance at Startup Catalog Server monitoring setting and the Health Test Startup Tolerance StateStore monitoring setting can be used to control the test's tolerance windows around Catalog Server and StateStore restarts respectively.

Short Name: StateStore Connectivity

### Catalog Server Connectivity Health Test

#### Description

Enables the health test that verifies the Catalog Server is connected to the StateStore

#### Template Name

`catalogserver_connectivity_health_enabled`

#### Default Value

`true`

#### Unit(s)

no unit

### Catalog Server Connectivity Tolerance at Startup

#### Description

The amount of time to wait for the Catalog Server to fully start up and connect to the StateStore before enforcing the connectivity check.

#### Template Name

`catalogserver_connectivity_tolerance`

#### Default Value

`180`

#### Unit(s)

SECONDS

### Health Test Startup Tolerance

#### Description

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

#### Template Name

statestore\_startup\_tolerance

#### Default Value

5

#### Unit(s)

MINUTES

### Impala Catalog Server Swap Memory Usage

This Impala Catalog Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

#### Process Swap Memory Thresholds

##### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

##### Template Name

process\_swap\_memory\_thresholds

##### Default Value

critical:never, warning:200.0

##### Unit(s)

BYTES

### Impala Catalog Server Swap Memory Usage Rate Beta

This Impala Catalog Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

#### Swap Memory Usage Rate Thresholds

##### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

##### Template Name

process\_swap\_memory\_rate\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Impala Catalog Server Unexpected Exits

This Impala Catalog Server health test checks that the Impala Catalog Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Impala Catalog Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Impala Catalog Server Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Impala Catalog Server, a misconfiguration of the Impala Catalog Server, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Impala Catalog Server for more detail. If the test failure message indicates a communication problem, the Cloudera



Manager Agent's HTTP requests to the Impala Catalog Server's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Impala Catalog Server's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Impala Catalog Server monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

catalogserver\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

catalogserver\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Impala Daemon Health Tests

### Impala Daemon Audit Pipeline Test

This Impala Daemon health test checks that the Auditing for the Impala Daemon role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Impala Daemon process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Impala Daemon host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Impala Daemon monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**Impala Daemon File Descriptors**

This Impala Daemon health test checks that the number of file descriptors used does not rise above some percentage of the Impala Daemon file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Impala Daemon monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**`impalad_fd_thresholds`**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Impala Daemon Heap Dump Directory Free Space**

This Impala Daemon health test checks that the filesystem containing the heap dump directory of this Impala Daemon has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Impala Daemon monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Impala Daemon Host Health

This Impala Daemon health test factors in the health of the host upon which the Impala Daemon is running. A failure of this test means that the host running the Impala Daemon is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Impala Daemon Host Health Test Impala Daemon monitoring setting.

Short Name: Host Health

### Impala Daemon Host Health Test

#### Description

When computing the overall Impala Daemon health, consider the host's health.

#### Template Name

impalad\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Impala Daemon Impala Concurrent Client Connections

This is an Impala Daemon health test that checks the number of active client connections. This check will warn or fail when the number of active connections reaches the user-defined thresholds. This test can be configured using the Impala Daemon Concurrent Client Connections Monitoring Percentage Thresholds Impala Daemon monitoring setting.

Short Name: Impala Concurrent Client Connections

### Impala Daemon Concurrent Client Connections Monitoring Percentage Thresholds

#### Description

The health check thresholds for monitoring of the number of concurrent client connections to Impala Daemon. Specified as a percentage of the maximum client connections parameter.

#### Template Name

`impalad_frontend_connections_thresholds`

#### Default Value

critical:95.0, warning:80.0

#### Unit(s)

PERCENT

## Impala Daemon Impala Daemon Ready Check

This is an Impala Daemon health test that checks if the Impala Daemon is ready to process queries. This test can be configured using the Impala Daemon Ready Status Health Check and Impala Daemon Ready Status Startup Tolerance `impalad` monitoring settings.

Short Name: Impala Daemon Ready Check

### Impala Daemon Ready Status Health Check

#### Description

Enables the health check that determines if the Impala daemon is ready to process queries.

#### Template Name

`impalad_ready_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

### Impala Daemon Ready Status Startup Tolerance

#### Description

The amount of time at Impala Daemon startup allowed for the Impala Daemon to start accepting new queries for processing.

#### Template Name

`impalad_ready_status_check_startup_tolerance`

#### Default Value

180

#### Unit(s)

SECONDS

## Impala Daemon Impala Daemon Scratch Directories Free Space

This is a Impala Daemon health test that checks that the filesystem containing the Impala Daemon Scratch Directories of this Impala Daemon has sufficient free space. See the Impala Daemon Scratch Directories description on the Impala Daemon configuration page for more information on this directory type. This test can be configured using the Impala Daemon Scratch Directories Free Space Monitoring Absolute Thresholds and Impala Daemon Scratch Directories Free Space Monitoring Percentage Thresholds Impala Daemon monitoring settings.

Short Name: Impala Daemon Scratch Directories Free Space

### Impala Daemon Scratch Directories Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Impala Daemon Scratch Directories.

#### Template Name

impalad\_scratch\_directories\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Impala Daemon Scratch Directories Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Impala Daemon Scratch Directories. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Impala Daemon Scratch Directories Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

impalad\_scratch\_directories\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Impala Daemon Log Directory Free Space

This Impala Daemon health test checks that the filesystem containing the log directory of this Impala Daemon has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Impala Daemon monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Impala Daemon Pause Duration**

This Impala Daemon health test checks that the Impala Daemon threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Impala Daemon that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Impala Daemon is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Impala Daemon logs for any pause monitor output and check garbage collection metrics exposed by the Impala Daemon. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period Impala Daemon monitoring settings.

Short Name: Pause Duration

**Pause Duration Monitoring Period****Description**

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

impalad\_pause\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Pause Duration Thresholds****Description**

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

**Template Name**

impalad\_pause\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## Impala Daemon Process Status

This Impala Daemon health test checks that the Cloudera Manager Agent on the Impala Daemon host is heart beating correctly and that the process associated with the Impala Daemon role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Impala Daemon process, a lack of connectivity to the Cloudera Manager Agent on the Impala Daemon host, or a problem with the Cloudera Manager Agent. This test can fail either because the Impala Daemon has crashed or because the Impala Daemon will not start or stop in a timely fashion. Check the Impala Daemon logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Impala Daemon host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Impala Daemon host, or look in the Cloudera Manager Agent logs on the Impala Daemon host for more details. This test can be enabled or disabled using the Impala Daemon Process Health Test Impala Daemon monitoring setting.

Short Name: Process Status

### Impala Daemon Process Health Test

#### Description

Enables the health test that the Impala Daemon's process state is consistent with the role configuration

#### Template Name

`impalad_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Impala Daemon Query Monitoring Status Check

This is an Impala Daemon health test that checks if query monitoring for the Impala Daemon is successful. This check fails if the Impala Daemon web server is not available, or error is encountered when processing Impala query profiles. If the Impala Daemon web server is not available, no Impala queries that are currently running can be collected. If there is error processing Impala query profiles, collection of completed queries will be impacted. Check Cloudera Manager Agent log for more details. This test can be configured using the Impala Daemon Query Collection Status Health Check Impala Daemon monitoring setting.

Short Name: Query Monitoring Status Check

### Impala Daemon Query Collection Status Health Check

#### Description

Enables the health check that determines if query collection for the Impala Daemon is successful.

#### Template Name

`impala_query_monitoring_status_check_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Monitoring Period For Query Monitoring Failures

#### Description

The period to review when computing query monitoring failures.

#### Template Name

```
impala_query_monitoring_failure_window
```

**Default Value**

5

**Unit(s)**

MINUTES

**Query Monitoring Failures Thresholds****Description**

The health test thresholds for failures encountered when monitoring queries within a recent period specified by the `impala_query_monitoring_failure_window` configuration for the role.

**Template Name**

```
impala_query_monitoring_failure_thresholds
```

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**Query Monitoring Full Sync Period****Description**

The full sync period of the Impala query monitor in the Cloudera Manager Agent, specified in minutes. When a full sync is happening, all query profiles are sent over regardless of having been updated or not. If set to zero, a full sync is performed at each polling period.

**Template Name**

```
query_monitoring_full_sync_period_minutes
```

**Default Value**

2.0

**Unit(s)**

MINUTES

**Query Monitoring Period****Description**

The polling period of the Impala query monitor in the Cloudera Manager Agent, specified in seconds. If set to zero, query monitoring is disabled.

**Template Name**

```
query_monitoring_period_seconds
```

**Default Value**

1.0

**Unit(s)**

SECONDS

**Impala Daemon Resident Set Size**

This Impala Daemon health test checks that the size of the resident set does not rise above a configured threshold value. A failure of this health test may indicate that the Impala Daemon process is consuming more memory than expected. It is possible that that unexpected memory consumption may lead to swapping and decreased performance for processes running on the same host as this Impala Daemon. Increased Impala Daemon memory consumption may be caused by an increased workload on the Impala service, or by a bug in the Impala Daemon software. To avoid



failures of this health test, free up additional memory for this Impala Daemon process and increase the Resident Set Size Thresholds monitoring setting. This test can be configured using the Resident Set Size Thresholds Impala Daemon monitoring setting.

Short Name: Resident Set Size

### Resident Set Size Thresholds

#### Description

The health test thresholds on the resident size of the process.

#### Template Name

process\_resident\_set\_size\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

## Impala Daemon StateStore Connectivity

This is an Impala Daemon health test that checks whether the StateStore considers the Impala Daemon alive. A failure of this health test may indicate that the Impala Daemon is having trouble communicating with the StateStore. Look in the Impala Daemon logs for more details. This test may return an unknown result if the Service Monitor is not able to communicate with the StateStore web server. Check the status of the StateStore web server and the Service Monitor logs if this test is returning an unknown result. This test can be enabled or disabled using the Impala Daemon Connectivity Health Test Impala Daemon monitoring setting. The Impala Daemon Connectivity Tolerance at Startup Impala Daemon monitoring setting and the Health Test Startup Tolerance StateStore monitoring setting can be used to control the test's tolerance windows around Impala Daemon and StateStore restarts respectively.

Short Name: StateStore Connectivity

### Health Test Startup Tolerance

#### Description

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

#### Template Name

statestore\_startup\_tolerance

#### Default Value

5

#### Unit(s)

MINUTES

### Impala Daemon Connectivity Health Test

#### Description

Enables the health test that verifies the Impala Daemon is connected to the StateStore.

#### Template Name

impalad\_connectivity\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Impala Daemon Connectivity Tolerance at Startup

#### Description

The amount of time to wait for the Impala Daemon to fully start up and connect to the StateStore before enforcing the connectivity check.

#### Template Name

impalad\_connectivity\_tolerance

#### Default Value

180

#### Unit(s)

SECONDS

### Impala Daemon Swap Memory Usage

This Impala Daemon health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

#### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:any, warning:any

#### Unit(s)

BYTES

### Impala Daemon Swap Memory Usage Rate Beta

This Impala Daemon health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

#### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Impala Daemon Unexpected Exits

This Impala Daemon health test checks that the Impala Daemon has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Impala Daemon monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

### Impala Daemon Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Impala Daemon, a misconfiguration of the Impala Daemon, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Impala Daemon for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests

to the Impala Daemon's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Impala Daemon's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Impala Daemon monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

`impalad_web_metric_collection_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

`impalad_web_metric_collection_thresholds`

#### Default Value

`critical:never, warning:10000.0`

#### Unit(s)

`MILLISECONDS`

## Impala Llama ApplicationMaster Health Tests

### Impala Llama ApplicationMaster Audit Pipeline Test

This Impala Llama ApplicationMaster health test checks that the Auditing for the Impala Llama ApplicationMaster role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Impala Llama ApplicationMaster process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Impala Llama ApplicationMaster host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Impala Llama ApplicationMaster monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

`mgmt_navigator_failure_window`

##### Default Value

`20`

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**Impala Llama ApplicationMaster File Descriptors**

This Impala Llama ApplicationMaster health test checks that the number of file descriptors used does not rise above some percentage of the Impala Llama ApplicationMaster file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Impala Llama ApplicationMaster monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**`llama_fd_thresholds`**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Impala Llama ApplicationMaster Heap Dump Directory Free Space**

This Impala Llama ApplicationMaster health test checks that the filesystem containing the heap dump directory of this Impala Llama ApplicationMaster has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Impala Llama ApplicationMaster monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Impala Llama ApplicationMaster Host Health

This Impala Llama ApplicationMaster health test factors in the health of the host upon which the Impala Llama ApplicationMaster is running. A failure of this test means that the host running the Impala Llama ApplicationMaster is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Impala Llama ApplicationMaster Host Health Test Impala Llama ApplicationMaster monitoring setting.

Short Name: Host Health

### Impala Llama ApplicationMaster Host Health Test

#### Description

When computing the overall Impala Llama ApplicationMaster health, consider the host's health.

#### Template Name

llama\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Impala Llama ApplicationMaster Log Directory Free Space

This Impala Llama ApplicationMaster health test checks that the filesystem containing the log directory of this Impala Llama ApplicationMaster has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Impala Llama ApplicationMaster monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Impala Llama ApplicationMaster Process Status

This Impala Llama ApplicationMaster health test checks that the Cloudera Manager Agent on the Impala Llama ApplicationMaster host is heart beating correctly and that the process associated with the Impala Llama ApplicationMaster role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Impala Llama ApplicationMaster process, a lack of connectivity to the Cloudera Manager Agent on the Impala Llama ApplicationMaster host, or a problem with the Cloudera Manager Agent. This test can fail either because the Impala Llama ApplicationMaster has crashed or because the Impala Llama ApplicationMaster will not start or stop in a timely fashion. Check the Impala Llama ApplicationMaster logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Impala Llama ApplicationMaster host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Impala Llama ApplicationMaster host, or look in the Cloudera Manager Agent logs on the Impala Llama ApplicationMaster host for more details. This test can be enabled or disabled using the Impala Llama ApplicationMaster Process Health Test Impala Llama ApplicationMaster monitoring setting.

Short Name: Process Status

### Impala Llama ApplicationMaster Process Health Test

#### Description

Enables the health test that the Impala Llama ApplicationMaster's process state is consistent with the role configuration

**Template Name**

llama\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Impala Llama ApplicationMaster Swap Memory Usage

This Impala Llama ApplicationMaster health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Impala Llama ApplicationMaster Swap Memory Usage Rate Beta

This Impala Llama ApplicationMaster health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**



The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Impala Llama ApplicationMaster Unexpected Exits

This Impala Llama ApplicationMaster health test checks that the Impala Llama ApplicationMaster has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Impala Llama ApplicationMaster monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Impala StateStore Health Tests

### Impala StateStore Audit Pipeline Test

This Impala StateStore health test checks that the Auditing for the Impala StateStore role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Impala StateStore process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera

Manager Agent on the Impala StateStore host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Impala StateStore monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Impala StateStore File Descriptors

This Impala StateStore health test checks that the number of file descriptors used does not rise above some percentage of the Impala StateStore file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Impala StateStore monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

statestore\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Impala StateStore Heap Dump Directory Free Space

This Impala StateStore health test checks that the filesystem containing the heap dump directory of this Impala StateStore has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Impala StateStore monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Impala StateStore Host Health

This Impala StateStore health test factors in the health of the host upon which the Impala StateStore is running. A failure of this test means that the host running the Impala StateStore is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Impala StateStore Host Health Test Impala StateStore monitoring setting.

Short Name: Host Health

### Impala StateStore Host Health Test

#### Description

When computing the overall Impala StateStore health, consider the host's health.

#### Template Name

statestore\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Impala StateStore Log Directory Free Space

This Impala StateStore health test checks that the filesystem containing the log directory of this Impala StateStore has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Impala StateStore monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Impala StateStore Process Status

This Impala StateStore health test checks that the Cloudera Manager Agent on the Impala StateStore host is heart beating correctly and that the process associated with the Impala StateStore role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Impala StateStore process, a lack of connectivity to the Cloudera Manager Agent on the Impala StateStore host, or a problem with the Cloudera Manager

Agent. This test can fail either because the Impala StateStore has crashed or because the Impala StateStore will not start or stop in a timely fashion. Check the Impala StateStore logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Impala StateStore host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Impala StateStore host, or look in the Cloudera Manager Agent logs on the Impala StateStore host for more details. This test can be enabled or disabled using the Impala StateStore Process Health Test Impala StateStore monitoring setting.

Short Name: Process Status

### Impala StateStore Process Health Test

#### Description

Enables the health test that the Impala StateStore's process state is consistent with the role configuration

#### Template Name

`statestore_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Impala StateStore Resident Set Size

This Impala StateStore health test checks that the size of the resident set does not rise above a configured threshold value. A failure of this health test may indicate that the Impala StateStore process is consuming more memory than expected. It is possible that that unexpected memory consumption may lead to swapping and decreased performance for processes running on the same host as this Impala StateStore. Increased Impala StateStore memory consumption may be caused by an increased workload on the Impala service, or by a bug in the Impala StateStore software. To avoid failures of this health test, free up additional memory for this Impala StateStore process and increase the Resident Set Size Thresholds monitoring setting. This test can be configured using the Resident Set Size Thresholds Impala StateStore monitoring setting.

Short Name: Resident Set Size

### Resident Set Size Thresholds

#### Description

The health test thresholds on the resident size of the process.

#### Template Name

`process_resident_set_size_thresholds`

#### Default Value

`critical:never, warning:never`

#### Unit(s)

`BYTES`

### Impala StateStore Swap Memory Usage

This Impala StateStore health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Impala StateStore Swap Memory Usage Rate Beta

This Impala StateStore health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Impala StateStore Unexpected Exits

This Impala StateStore health test checks that the Impala StateStore has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Impala StateStore monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Impala StateStore Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Impala StateStore, a misconfiguration of the Impala StateStore, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Impala StateStore for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Impala StateStore's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Impala StateStore's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Impala StateStore monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

**Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**

statestore\_web\_metric\_collection\_enabled

**Default Value**

true

**Unit(s)**

no unit

### Web Metric Collection Duration

**Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

statestore\_web\_metric\_collection\_thresholds

**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## JobHistory Server Health Tests

### JobHistory Server Audit Pipeline Test

This JobHistory Server health test checks that the Auditing for the JobHistory Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of JobHistory Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the JobHistory Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check JobHistory Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**



```
mgmt_navigator_status_check_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## JobHistory Server File Descriptors

This JobHistory Server health test checks that the number of file descriptors used does not rise above some percentage of the JobHistory Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds JobHistory Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

```
jobhistory_fd_thresholds
```

**Default Value**

```
critical:70.0, warning:50.0
```

**Unit(s)**

```
PERCENT
```

## JobHistory Server GC Duration

This JobHistory Server health test checks that the JobHistory Server is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the JobHistory Server. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period JobHistory Server monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

**Description**

The period to review when computing the moving average of garbage collection time.

**Template Name**

```
jobhistory_gc_duration_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

### Garbage Collection Duration Thresholds

**Description**

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

**Template Name**

jobhistory\_gc\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## JobHistory Server Heap Dump Directory Free Space

This JobHistory Server health test checks that the filesystem containing the heap dump directory of this JobHistory Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds JobHistory Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## JobHistory Server Host Health

This JobHistory Server health test factors in the health of the host upon which the JobHistory Server is running. A failure of this test means that the host running the JobHistory Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the JobHistory Server Host Health Test JobHistory Server monitoring setting.

Short Name: Host Health

### JobHistory Server Host Health Test

**Description**

When computing the overall JobHistory Server health, consider the host's health.

**Template Name**

jobhistory\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## JobHistory Server Log Directory Free Space

This JobHistory Server health test checks that the filesystem containing the log directory of this JobHistory Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds JobHistory Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## JobHistory Server Process Status

This JobHistory Server health test checks that the Cloudera Manager Agent on the JobHistory Server host is heart beating correctly and that the process associated with the JobHistory Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the JobHistory Server process, a lack of connectivity to the Cloudera Manager Agent on the JobHistory Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the JobHistory Server has crashed or because the JobHistory Server will not start or stop in a timely fashion. Check the JobHistory Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the JobHistory Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the JobHistory Server host, or look in

the Cloudera Manager Agent logs on the JobHistory Server host for more details. This test can be enabled or disabled using the JobHistory Server Process Health Test JobHistory Server monitoring setting.

Short Name: Process Status

### JobHistory Server Process Health Test

#### Description

Enables the health test that the JobHistory Server's process state is consistent with the role configuration

#### Template Name

jobhistory\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### JobHistory Server Swap Memory Usage

This JobHistory Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### JobHistory Server Swap Memory Usage Rate Beta

This JobHistory Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## JobHistory Server Unexpected Exits

This JobHistory Server health test checks that the JobHistory Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period JobHistory Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## JobHistory Server Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the JobHistory Server, a misconfiguration of the JobHistory Server, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the JobHistory Server for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the JobHistory Server's web server are failing or timing out. If the test's failure message indicates an unexpected response, the JobHistory Server's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection JobHistory Server monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

jobhistory\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

jobhistory\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## JobTracker Health Tests

### JobTracker Audit Pipeline Test

This JobTracker health test checks that the Auditing for the JobTracker role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of JobTracker process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the JobTracker host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check JobTracker monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**JobTracker File Descriptors**

This JobTracker health test checks that the number of file descriptors used does not rise above some percentage of the JobTracker file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds JobTracker monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

jobtracker\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

## PERCENT

## JobTracker GC Duration

This JobTracker health test checks that the JobTracker is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the JobTracker. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period JobTracker monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

**Description**

The period to review when computing the moving average of garbage collection time.

**Template Name**

jobtracker\_gc\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Garbage Collection Duration Thresholds

**Description**

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

**Template Name**

jobtracker\_gc\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## JobTracker Heap Dump Directory Free Space

This JobTracker health test checks that the filesystem containing the heap dump directory of this JobTracker has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds JobTracker monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**



BYTES

**Heap Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**JobTracker Host Health**

This JobTracker health test factors in the health of the host upon which the JobTracker is running. A failure of this test means that the host running the JobTracker is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the JobTracker Host Health Test JobTracker monitoring setting.

Short Name: Host Health

**JobTracker Host Health Test****Description**

When computing the overall JobTracker health, consider the host's health.

**Template Name**

jobtracker\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**JobTracker Log Directory Free Space**

This JobTracker health test checks that the filesystem containing the log directory of this JobTracker has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds JobTracker monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

## Log Directory Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

log\_directory\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## JobTracker Process Status

This JobTracker health test checks that the Cloudera Manager Agent on the JobTracker host is heart beating correctly and that the process associated with the JobTracker role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the JobTracker process, a lack of connectivity to the Cloudera Manager Agent on the JobTracker host, or a problem with the Cloudera Manager Agent. This test can fail either because the JobTracker has crashed or because the JobTracker will not start or stop in a timely fashion. Check the JobTracker logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the JobTracker host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the JobTracker host, or look in the Cloudera Manager Agent logs on the JobTracker host for more details. This test can be enabled or disabled using the JobTracker Process Health Test JobTracker monitoring setting.

Short Name: Process Status

## JobTracker Process Health Test

### Description

Enables the health test that the JobTracker's process state is consistent with the role configuration

### Template Name

jobtracker\_scm\_health\_enabled

### Default Value

true

### Unit(s)

no unit

## JobTracker Swap Memory Usage

This JobTracker health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

## Process Swap Memory Thresholds

### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

### Template Name

process\_swap\_memory\_thresholds

### Default Value

critical:never, warning:200.0

**Unit(s)**

BYTES

## JobTracker Swap Memory Usage Rate Beta

This JobTracker health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## JobTracker Unexpected Exits

This JobTracker health test checks that the JobTracker has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period JobTracker monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**`unexpected_exits_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**JobTracker Web Server Status**

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the JobTracker, a misconfiguration of the JobTracker, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the JobTracker for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the JobTracker's web server are failing or timing out. If the test's failure message indicates an unexpected response, the JobTracker's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection JobTracker monitoring setting.

Short Name: Web Server Status

**Web Metric Collection****Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**`jobtracker_web_metric_collection_enabled`**Default Value**

true

**Unit(s)**

no unit

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**`jobtracker_web_metric_collection_thresholds`**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## JournalNode Health Tests

### JournalNode Audit Pipeline Test

This JournalNode health test checks that the Auditing for the JournalNode role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of JournalNode process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the JournalNode host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check JournalNode monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## JournalNode File Descriptors

This JournalNode health test checks that the number of file descriptors used does not rise above some percentage of the JournalNode file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds JournalNode monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

journalnode\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## JournalNode Fsync Latency

This is a JournalNode health test that checks the JournalNode's fsync latency. This test returns "Bad" health if the 99th percentile fsync latency over the previous minute is above a configured threshold value. Poor fsync performance may indicate a bad or overloaded disk and will negatively impact the performance of HDFS metadata operations performed by the NameNode. This test can be configured using the JournalNode Fsync Latency Thresholds JournalNode monitoring settings.

Short Name: Fsync Latency

### JournalNode Fsync Latency Thresholds

#### Description

The health test thresholds for JournalNode fsync latency.

#### Template Name

journalnode\_fsync\_latency\_thresholds

#### Default Value

critical:3000.0, warning:1000.0

#### Unit(s)

MILLISECONDS

## JournalNode GC Duration

This JournalNode health test checks that the JournalNode is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the JournalNode. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period JournalNode monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

**Template Name**

journalnode\_gc\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Garbage Collection Duration Thresholds****Description**

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

**Template Name**

journalnode\_gc\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

**JournalNode Heap Dump Directory Free Space**

This JournalNode health test checks that the filesystem containing the heap dump directory of this JournalNode has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds JournalNode monitoring settings.

Short Name: Heap Dump Directory Free Space

**Heap Dump Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Heap Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## JournalNode Host Health

This JournalNode health test factors in the health of the host upon which the JournalNode is running. A failure of this test means that the host running the JournalNode is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the JournalNode Host Health Test JournalNode monitoring setting.

Short Name: Host Health

### JournalNode Host Health Test

**Description**

When computing the overall JournalNode health, consider the host's health.

**Template Name**

journalnode\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## JournalNode JournalNode Edits Directory Free Space

This is a JournalNode health test that checks that the filesystem containing the JournalNode Edits Directory of this JournalNode has sufficient free space. See the JournalNode Edits Directory description on the JournalNode configuration page for more information on this directory type. This test can be configured using the JournalNode Edits Directory Free Space Monitoring Absolute Thresholds and JournalNode Edits Directory Free Space Monitoring Percentage Thresholds JournalNode monitoring settings.

Short Name: JournalNode Edits Directory Free Space

### JournalNode Edits Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's JournalNode Edits Directory.

**Template Name**

journalnode\_edits\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### JournalNode Edits Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's JournalNode Edits Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a JournalNode Edits Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

journalnode\_edits\_directory\_free\_space\_percentage\_thresholds



**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## JournalNode Log Directory Free Space

This JournalNode health test checks that the filesystem containing the log directory of this JournalNode has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds JournalNode monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## JournalNode Process Status

This JournalNode health test checks that the Cloudera Manager Agent on the JournalNode host is heart beating correctly and that the process associated with the JournalNode role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the JournalNode process, a lack of connectivity to the Cloudera Manager Agent on the JournalNode host, or a problem with the Cloudera Manager Agent. This test can fail either because the JournalNode has crashed or because the JournalNode will not start or stop in a timely fashion. Check the JournalNode logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the JournalNode host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the JournalNode host, or look in the Cloudera Manager Agent logs on the JournalNode host for more details. This test can be enabled or disabled using the JournalNode Process Health Test JournalNode monitoring setting.

Short Name: Process Status

### JournalNode Process Health Test

**Description**

Enables the health test that the JournalNode's process state is consistent with the role configuration

**Template Name**

journalnode\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

### JournalNode Swap Memory Usage

This JournalNode health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

#### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

### JournalNode Swap Memory Usage Rate Beta

This JournalNode health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

#### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

#### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## JournalNode Sync Status

This is a JournalNode health test that checks that the active NameNode is in sync with this JournalNode. This test returns "Bad" health if the active NameNode is out-of-sync with the JournalNode. This test is disabled when there is no active NameNode. This test can be configured using the Active NameNode Sync Status Health Check and Active NameNode Sync Status Startup Tolerance JournalNode monitoring settings.

Short Name: Sync Status

### Active NameNode Sync Status Health Check

**Description**

Enables the health check that verifies the active NameNode's sync status to the JournalNode

**Template Name**

journalnode\_sync\_status\_enabled

**Default Value**

true

**Unit(s)**

no unit

### Active NameNode Sync Status Startup Tolerance

**Description**

The amount of time at JournalNode startup allowed for the active NameNode to get in sync with the JournalNode.

**Template Name**

journalnode\_sync\_status\_startup\_tolerance

**Default Value**

180

**Unit(s)**

SECONDS

## JournalNode Unexpected Exits

This JournalNode health test checks that the JournalNode has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period JournalNode monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## JournalNode Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the JournalNode, a misconfiguration of the JournalNode, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the JournalNode for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the JournalNode's web server are failing or timing out. If the test's failure message indicates an unexpected response, the JournalNode's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection JournalNode monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

**Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**

journalnode\_web\_metric\_collection\_enabled

**Default Value**

true

**Unit(s)**

no unit

### Web Metric Collection Duration

**Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

journalnode\_web\_metric\_collection\_thresholds

**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## Kafka Health Tests

### Kafka Broker Health

This is a Kafka service-level health test that checks that enough of the Kafka Brokers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Kafka Brokers falls below a warning threshold, expressed as a percentage of the total number of Kafka Brokers. The test returns "Bad" health if the number of healthy and "Concerning" Kafka Brokers falls below a critical threshold, expressed as a percentage of the total number of Kafka Brokers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Kafka Brokers, this test would return "Good" health if 95 or more Kafka Brokers have good health. This test would return "Concerning" health if at least 90 Kafka Brokers have either "Good" or "Concerning" health. If more than 10 Kafka Brokers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Kafka Brokers. Check the status of the individual Kafka Brokers for more information. This test can be configured using the Kafka Kafka service-wide monitoring setting.

Short Name: Kafka Broker Health

#### Healthy Kafka Broker Monitoring Thresholds

**Description**

The health test thresholds of the overall Kafka Broker health. The check returns "Concerning" health if the percentage of "Healthy" Kafka Brokers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Kafka Brokers falls below the critical threshold.

**Template Name**

KAFKA\_KAFKA\_BROKER\_healthy\_thresholds

**Default Value**

critical:49.99, warning:94.99

**Unit(s)**

PERCENT

### Kafka Connect Health

This is a Kafka service-level health test that checks that enough of the Kafka Connects in the cluster are healthy. The test returns "Concerning" health if the number of healthy Kafka Connects falls below a warning threshold, expressed as a percentage of the total number of Kafka Connects. The test returns "Bad" health if the number of healthy and "Concerning" Kafka Connects falls below a critical threshold, expressed as a percentage of the total number of Kafka Connects. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Kafka Connects, this test would return "Good" health if 95 or more Kafka Connects have good health. This test would return "Concerning" health if at least 90 Kafka Connects have either "Good" or "Concerning" health. If more than 10 Kafka Connects have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Kafka Connects. Check the status of the individual Kafka Connects for more information. This test can be configured using the Kafka Kafka service-wide monitoring setting.

Short Name: Kafka Connect Health

### Healthy Kafka Connect Monitoring Thresholds

#### Description

The health test thresholds of the overall Kafka Connect health. The check returns "Concerning" health if the percentage of "Healthy" Kafka Connects falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Kafka Connects falls below the critical threshold.

#### Template Name

KAFKA\_KAFKA\_CONNECT\_healthy\_thresholds

#### Default Value

critical:49.99, warning:94.99

#### Unit(s)

PERCENT

## Kafka Broker Health Tests

### Kafka Broker Audit Pipeline Test

This Kafka Broker health test checks that the Auditing for the Kafka Broker role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Kafka Broker process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Kafka Broker host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Kafka Broker monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Kafka Broker File Descriptors

This Kafka Broker health test checks that the number of file descriptors used does not rise above some percentage of the Kafka Broker file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Kafka Broker monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

kafka\_broker\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Kafka Broker Host Health

This Kafka Broker health test factors in the health of the host upon which the Kafka Broker is running. A failure of this test means that the host running the Kafka Broker is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Kafka Broker Host Health Test Kafka Broker monitoring setting.

Short Name: Host Health

### Kafka Broker Host Health Test

#### Description

When computing the overall Kafka Broker health, consider the host's health.

#### Template Name

kafka\_broker\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Kafka Broker Lagging Replicas Test

Short Name: Lagging Replicas Test

## Kafka Broker Log Directory Free Space

This Kafka Broker health test checks that the filesystem containing the log directory of this Kafka Broker has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Kafka Broker monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Kafka Broker Network Processor Capacity Test

Short Name: Network Processor Capacity Test

## Kafka Broker Offline Directory Test

Short Name: Offline Directory Test

## Kafka Broker Offline Partitions Test

Short Name: Offline Partitions Test

## Kafka Broker Process Status



This Kafka Broker health test checks that the Cloudera Manager Agent on the Kafka Broker host is heart beating correctly and that the process associated with the Kafka Broker role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Kafka Broker process, a lack of connectivity to the Cloudera Manager Agent on the Kafka Broker host, or a problem with the Cloudera Manager Agent. This test can fail either because the Kafka Broker has crashed or because the Kafka Broker will not start or stop in a timely fashion. Check the Kafka Broker logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Kafka Broker host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Kafka Broker host, or look in the Cloudera Manager Agent logs on the Kafka Broker host for more details. This test can be enabled or disabled using the Kafka Broker Process Health Test Kafka Broker monitoring setting.

Short Name: Process Status

### Kafka Broker Process Health Test

#### Description

Enables the health test that the Kafka Broker's process state is consistent with the role configuration

#### Template Name

`kafka_broker_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Kafka Broker Request Handler Capacity Test

Short Name: Request Handler Capacity Test

### Kafka Broker Swap Memory Usage

This Kafka Broker health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Kafka Broker Swap Memory Usage Rate Beta

This Kafka Broker health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Kafka Broker Unexpected Exits

This Kafka Broker health test checks that the Kafka Broker has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Kafka Broker monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

|                      |                             |
|----------------------|-----------------------------|
| <b>Template Name</b> | unexpected_exits_thresholds |
| <b>Default Value</b> | critical:any, warning:never |
| <b>Unit(s)</b>       | no unit                     |

## Kafka Connect Health Tests

### Kafka Connect Audit Pipeline Test

This Kafka Connect health test checks that the Auditing for the Kafka Connect role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Kafka Connect process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Kafka Connect host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Kafka Connect monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

|                      |   |
|----------------------|---|
| <b>Description</b>   | The period to review when checking if audits are blocked and not getting processed. |
| <b>Template Name</b> | mgmt_navigator_failure_window   |
| <b>Default Value</b> | 20  |
| <b>Unit(s)</b>       | MINUTES   |

#### Navigator Audit Failure Thresholds

|                      |  |
|----------------------|--|
| <b>Description</b>   | The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt_navigator_failure_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server. |
| <b>Template Name</b> | mgmt_navigator_failure_thresholds  |
| <b>Default Value</b> | critical:any, warning:never  |
| <b>Unit(s)</b>       | BYTES  |

#### Navigator Audit Pipeline Health Check

|                      |  |
|----------------------|--|
| <b>Description</b>   | Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit. |
| <b>Template Name</b> |  |

```
mgmt_navigator_status_check_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Kafka Connect File Descriptors

This Kafka Connect health test checks that the number of file descriptors used does not rise above some percentage of the Kafka Connect file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Kafka Connect monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

```
kafka_connect_fd_thresholds
```

**Default Value**

```
critical:70.0, warning:50.0
```

**Unit(s)**

```
PERCENT
```

## Kafka Connect Host Health

This Kafka Connect health test factors in the health of the host upon which the Kafka Connect is running. A failure of this test means that the host running the Kafka Connect is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Kafka Connect Host Health Test Kafka Connect monitoring setting.

Short Name: Host Health

### Kafka Connect Host Health Test

**Description**

When computing the overall Kafka Connect health, consider the host's health.

**Template Name**

```
kafka_connect_host_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Kafka Connect Log Directory Free Space

This Kafka Connect health test checks that the filesystem containing the log directory of this Kafka Connect has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Kafka Connect monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Kafka Connect Process Status

This Kafka Connect health test checks that the Cloudera Manager Agent on the Kafka Connect host is heart beating correctly and that the process associated with the Kafka Connect role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Kafka Connect process, a lack of connectivity to the Cloudera Manager Agent on the Kafka Connect host, or a problem with the Cloudera Manager Agent. This test can fail either because the Kafka Connect has crashed or because the Kafka Connect will not start or stop in a timely fashion. Check the Kafka Connect logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Kafka Connect host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Kafka Connect host, or look in the Cloudera Manager Agent logs on the Kafka Connect host for more details. This test can be enabled or disabled using the Kafka Connect Process Health Test Kafka Connect monitoring setting.

Short Name: Process Status

### Kafka Connect Process Health Test

#### Description

Enables the health test that the Kafka Connect's process state is consistent with the role configuration

#### Template Name

kafka\_connect\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Kafka Connect Swap Memory Usage

This Kafka Connect health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## Kafka Connect Swap Memory Usage Rate Beta

This Kafka Connect health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Kafka Connect Unexpected Exits

This Kafka Connect health test checks that the Kafka Connect has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Kafka Connect monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Kafka MirrorMaker Health Tests

### Kafka MirrorMaker Audit Pipeline Test

This Kafka MirrorMaker health test checks that the Auditing for the Kafka MirrorMaker role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Kafka MirrorMaker process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Kafka MirrorMaker host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Kafka MirrorMaker monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Kafka MirrorMaker File Descriptors**

This Kafka MirrorMaker health test checks that the number of file descriptors used does not rise above some percentage of the Kafka MirrorMaker file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Kafka MirrorMaker monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

kafka\_mirror\_maker\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT



## Kafka MirrorMaker Host Health

This Kafka MirrorMaker health test factors in the health of the host upon which the Kafka MirrorMaker is running. A failure of this test means that the host running the Kafka MirrorMaker is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Kafka MirrorMaker Host Health Test Kafka MirrorMaker monitoring setting.

Short Name: Host Health

### Kafka MirrorMaker Host Health Test

#### Description

When computing the overall Kafka MirrorMaker health, consider the host's health.

#### Template Name

kafka\_mirror\_maker\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Kafka MirrorMaker Log Directory Free Space

This Kafka MirrorMaker health test checks that the filesystem containing the log directory of this Kafka MirrorMaker has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Kafka MirrorMaker monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Kafka MirrorMaker Process Status

This Kafka MirrorMaker health test checks that the Cloudera Manager Agent on the Kafka MirrorMaker host is heart beating correctly and that the process associated with the Kafka MirrorMaker role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Kafka MirrorMaker process, a lack of connectivity to the Cloudera Manager Agent on the Kafka MirrorMaker host, or a problem with the Cloudera Manager Agent. This test can fail either because the Kafka MirrorMaker has crashed or because the Kafka MirrorMaker will not start or stop in a timely fashion. Check the Kafka MirrorMaker logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Kafka MirrorMaker host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Kafka MirrorMaker host, or look in the Cloudera Manager Agent logs on the Kafka MirrorMaker host for more details. This test can be enabled or disabled using the Kafka MirrorMaker Process Health Test Kafka MirrorMaker monitoring setting.

Short Name: Process Status

### Kafka MirrorMaker Process Health Test

#### Description

Enables the health test that the Kafka MirrorMaker's process state is consistent with the role configuration

#### Template Name

`kafka_mirror_maker_scm_health_enabled`

#### Default Value

true

#### Unit(s)

no unit

## Kafka MirrorMaker Swap Memory Usage

This Kafka MirrorMaker health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## Kafka MirrorMaker Swap Memory Usage Rate Beta

This Kafka MirrorMaker health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

`process_swap_memory_rate_thresholds`

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

`process_swap_memory_rate_window`

**Default Value**

5

**Unit(s)**

MINUTES

## Kafka MirrorMaker Unexpected Exits

This Kafka MirrorMaker health test checks that the Kafka MirrorMaker has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Kafka MirrorMaker monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

`unexpected_exits_window`

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Kerberos Ticket Renewer Health Tests

### Kerberos Ticket Renewer Audit Pipeline Test

This Kerberos Ticket Renewer health test checks that the Auditing for the Kerberos Ticket Renewer role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Kerberos Ticket Renewer process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Kerberos Ticket Renewer host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Kerberos Ticket Renewer monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

```
mgmt_navigator_status_check_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Kerberos Ticket Renewer File Descriptors

This Kerberos Ticket Renewer health test checks that the number of file descriptors used does not rise above some percentage of the Kerberos Ticket Renewer file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Kerberos Ticket Renewer monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

```
kt_renewer_fd_thresholds
```

**Default Value**

```
critical:70.0, warning:50.0
```

**Unit(s)**

```
PERCENT
```

## Kerberos Ticket Renewer Heap Dump Directory Free Space

This Kerberos Ticket Renewer health test checks that the filesystem containing the heap dump directory of this Kerberos Ticket Renewer has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Kerberos Ticket Renewer monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

```
heap_dump_directory_free_space_absolute_thresholds
```

**Default Value**

```
critical:5.36870912E9, warning:1.073741824E10
```

**Unit(s)**

```
BYTES
```

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Kerberos Ticket Renewer Host Health

This Kerberos Ticket Renewer health test factors in the health of the host upon which the Kerberos Ticket Renewer is running. A failure of this test means that the host running the Kerberos Ticket Renewer is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Kerberos Ticket Renewer Host Health Test Kerberos Ticket Renewer monitoring setting.

Short Name: Host Health

### Kerberos Ticket Renewer Host Health Test

**Description**

When computing the overall Kerberos Ticket Renewer health, consider the host's health.

**Template Name**

kt\_renewer\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Kerberos Ticket Renewer Log Directory Free Space

This Kerberos Ticket Renewer health test checks that the filesystem containing the log directory of this Kerberos Ticket Renewer has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Kerberos Ticket Renewer monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

## Log Directory Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

log\_directory\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## Kerberos Ticket Renewer Process Status

This Kerberos Ticket Renewer health test checks that the Cloudera Manager Agent on the Kerberos Ticket Renewer host is heart beating correctly and that the process associated with the Kerberos Ticket Renewer role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Kerberos Ticket Renewer process, a lack of connectivity to the Cloudera Manager Agent on the Kerberos Ticket Renewer host, or a problem with the Cloudera Manager Agent. This test can fail either because the Kerberos Ticket Renewer has crashed or because the Kerberos Ticket Renewer will not start or stop in a timely fashion. Check the Kerberos Ticket Renewer logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Kerberos Ticket Renewer host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Kerberos Ticket Renewer host, or look in the Cloudera Manager Agent logs on the Kerberos Ticket Renewer host for more details. This test can be enabled or disabled using the Kerberos Ticket Renewer Process Health Test Kerberos Ticket Renewer monitoring setting.

Short Name: Process Status

## Kerberos Ticket Renewer Process Health Test

### Description

Enables the health test that the Kerberos Ticket Renewer's process state is consistent with the role configuration

### Template Name

kt\_renewer\_scm\_health\_enabled

### Default Value

true

### Unit(s)

no unit

## Kerberos Ticket Renewer Swap Memory Usage

This Kerberos Ticket Renewer health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

## Process Swap Memory Thresholds

### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

### Template Name

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Kerberos Ticket Renewer Swap Memory Usage Rate Beta

This Kerberos Ticket Renewer health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

## Kerberos Ticket Renewer Unexpected Exits

This Kerberos Ticket Renewer health test checks that the Kerberos Ticket Renewer has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Kerberos Ticket Renewer monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**



The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Key Management Server Health Tests

### Key Management Server Audit Pipeline Test

This Key Management Server health test checks that the Auditing for the Key Management Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Key Management Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Key Management Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Key Management Server monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**Key Management Server File Descriptors**

This Key Management Server health test checks that the number of file descriptors used does not rise above some percentage of the Key Management Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Key Management Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`kms_fd_thresholds`

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Key Management Server Host Health**

This Key Management Server health test factors in the health of the host upon which the Key Management Server is running. A failure of this test means that the host running the Key Management Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Key Management Server Host Health Test Key Management Server monitoring setting.

Short Name: Host Health

### Key Management Server Host Health Test

#### Description

When computing the overall Key Management Server health, consider the host's health.

#### Template Name

kms\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Key Management Server Log Directory Free Space

This Key Management Server health test checks that the filesystem containing the log directory of this Key Management Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Key Management Server monitoring settings.

Short Name: Log Directory Free Space

#### Log Directory Free Space Monitoring Absolute Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

##### Template Name

log\_directory\_free\_space\_absolute\_thresholds

##### Default Value

critical:5.36870912E9, warning:1.073741824E10

##### Unit(s)

BYTES

#### Log Directory Free Space Monitoring Percentage Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

##### Template Name

log\_directory\_free\_space\_percentage\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

PERCENT

### Key Management Server Process Status

This Key Management Server health test checks that the Cloudera Manager Agent on the Key Management Server host is heart beating correctly and that the process associated with the Key Management Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Key Management Server process, a lack of connectivity to the Cloudera Manager Agent on the Key Management Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Key Management Server has crashed or because the Key Management Server will not start or stop in a timely fashion. Check the Key Management Server

logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Key Management Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Key Management Server host, or look in the Cloudera Manager Agent logs on the Key Management Server host for more details. This test can be enabled or disabled using the Key Management Server Process Health Test Key Management Server monitoring setting.

Short Name: Process Status

### Key Management Server Process Health Test

#### Description

Enables the health test that the Key Management Server's process state is consistent with the role configuration

#### Template Name

`kms_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Key Management Server Swap Memory Usage

This Key Management Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Key Management Server Swap Memory Usage Rate Beta

This Key Management Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**Key Management Server Unexpected Exits**

This Key Management Server health test checks that the Key Management Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Key Management Server monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

```
unexpected_exits_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Key Management Server Proxy Health Tests

### Key Management Server Proxy Audit Pipeline Test

This Key Management Server Proxy health test checks that the Auditing for the Key Management Server Proxy role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Key Management Server Proxy process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Key Management Server Proxy host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Key Management Server Proxy monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## Key Management Server Proxy File Descriptors

This Key Management Server Proxy health test checks that the number of file descriptors used does not rise above some percentage of the Key Management Server Proxy file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Key Management Server Proxy monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

kms\_keytrustee\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Key Management Server Proxy Host Health

This Key Management Server Proxy health test factors in the health of the host upon which the Key Management Server Proxy is running. A failure of this test means that the host running the Key Management Server Proxy is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Key Management Server Proxy Host Health Test Key Management Server Proxy monitoring setting.

Short Name: Host Health

### Key Management Server Proxy Host Health Test

#### Description

When computing the overall Key Management Server Proxy health, consider the host's health.

#### Template Name

kms\_keytrustee\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Key Management Server Proxy Log Directory Free Space

This Key Management Server Proxy health test checks that the filesystem containing the log directory of this Key Management Server Proxy has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Key Management Server Proxy monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Key Management Server Proxy Process Status**

This Key Management Server Proxy health test checks that the Cloudera Manager Agent on the Key Management Server Proxy host is heart beating correctly and that the process associated with the Key Management Server Proxy role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Key Management Server Proxy process, a lack of connectivity to the Cloudera Manager Agent on the Key Management Server Proxy host, or a problem with the Cloudera Manager Agent. This test can fail either because the Key Management Server Proxy has crashed or because the Key Management Server Proxy will not start or stop in a timely fashion. Check the Key Management Server Proxy logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Key Management Server Proxy host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Key Management Server Proxy host, or look in the Cloudera Manager Agent logs on the Key Management Server Proxy host for more details. This test can be enabled or disabled using the Key Management Server Proxy Process Health Test Key Management Server Proxy monitoring setting.

Short Name: Process Status

**Key Management Server Proxy Process Health Test****Description**

Enables the health test that the Key Management Server Proxy's process state is consistent with the role configuration

**Template Name**

kms\_keytrustee\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Key Management Server Proxy Swap Memory Usage**



This Key Management Server Proxy health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Key Management Server Proxy Swap Memory Usage Rate Beta

This Key Management Server Proxy health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Key Management Server Proxy Unexpected Exits

This Key Management Server Proxy health test checks that the Key Management Server Proxy has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Key Management Server Proxy monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Key-Value Store Indexer Health Tests

### Key-Value Store Indexer Lily HBase Indexer Health

This is a Key-Value Store Indexer service-level health test that checks that enough of the Lily HBase Indexers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Lily HBase Indexers falls below a warning threshold, expressed as a percentage of the total number of Lily HBase Indexers. The test returns "Bad" health if the number of healthy and "Concerning" Lily HBase Indexers falls below a critical threshold, expressed as a percentage of the total number of Lily HBase Indexers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Lily HBase Indexers, this test would return "Good" health if 95 or more Lily HBase Indexers have good health. This test would return "Concerning" health if at least 90 Lily HBase Indexers have either "Good" or "Concerning" health. If more than 10 Lily HBase Indexers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Lily HBase Indexers. Check the status of the individual Lily HBase Indexers for more information. This test can be configured using the Key-Value Store Indexer Key-Value Store Indexer service-wide monitoring setting.

Short Name: Lily HBase Indexer Health

### Healthy Lily HBase Indexer Monitoring Thresholds

#### Description

The health test thresholds of the overall Lily HBase Indexer health. The check returns "Concerning" health if the percentage of "Healthy" Lily HBase Indexers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Lily HBase Indexers falls below the critical threshold.

#### Template Name

ks\_indexer\_indexers\_healthy\_thresholds

#### Default Value

critical:90.0, warning:95.0

#### Unit(s)

PERCENT

## Knox Health Tests

### Knox Gateway Health

This is a Knox service-level health test that checks that enough of the Knox Gateways in the cluster are healthy. The test returns "Concerning" health if the number of healthy Knox Gateways falls below a warning threshold, expressed as a percentage of the total number of Knox Gateways. The test returns "Bad" health if the number of healthy and "Concerning" Knox Gateways falls below a critical threshold, expressed as a percentage of the total number of Knox Gateways. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Knox Gateways, this test would return "Good" health if 95 or more Knox Gateways have good health. This test would return "Concerning" health if at least 90 Knox Gateways have either "Good" or "Concerning" health. If more than 10 Knox Gateways have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Knox Gateways. Check the status of the individual Knox Gateways for more information. This test can be configured using the Knox Knox service-wide monitoring setting.

Short Name: Knox Gateway Health

### Healthy Knox Gateway Monitoring Thresholds

#### Description

The health test thresholds of the overall Knox Gateway health. The check returns "Concerning" health if the percentage of "Healthy" Knox Gateways falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Knox Gateways falls below the critical threshold.

#### Template Name

KNOX\_KNOX\_GATEWAY\_healthy\_thresholds

#### Default Value

critical:49.0, warning:99.0

#### Unit(s)

PERCENT

### Knox IDBroker Health

This is a Knox service-level health test that checks that enough of the Knox IDBrokers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Knox IDBrokers falls below a warning threshold, expressed as a percentage of the total number of Knox IDBrokers. The test returns "Bad" health if the number of healthy and "Concerning" Knox IDBrokers falls below a critical threshold, expressed as a percentage of the total number of Knox IDBrokers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90%

for a cluster of 100 Knox IDBrokers, this test would return "Good" health if 95 or more Knox IDBrokers have good health. This test would return "Concerning" health if at least 90 Knox IDBrokers have either "Good" or "Concerning" health. If more than 10 Knox IDBrokers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Knox IDBrokers. Check the status of the individual Knox IDBrokers for more information. This test can be configured using the Knox Knox service-wide monitoring setting.

Short Name: Knox IDBroker Health

### Healthy Knox IDBroker Monitoring Thresholds

#### Description

The health test thresholds of the overall Knox IDBroker health. The check returns "Concerning" health if the percentage of "Healthy" Knox IDBrokers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Knox IDBrokers falls below the critical threshold.

#### Template Name

KNOX\_IDBROKER\_healthy\_thresholds

#### Default Value

critical:49.0, warning:99.0

#### Unit(s)

PERCENT

## Knox Gateway Health Tests

### Knox Gateway Audit Pipeline Test

This Knox Gateway health test checks that the Auditing for the Knox Gateway role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Knox Gateway process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Knox Gateway host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Knox Gateway monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Knox Gateway File Descriptors**

This Knox Gateway health test checks that the number of file descriptors used does not rise above some percentage of the Knox Gateway file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Knox Gateway monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

knox\_gateway\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Knox Gateway Host Health**

This Knox Gateway health test factors in the health of the host upon which the Knox Gateway is running. A failure of this test means that the host running the Knox Gateway is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Knox Gateway Host Health Test Knox Gateway monitoring setting.

Short Name: Host Health

**Knox Gateway Host Health Test****Description**

When computing the overall Knox Gateway health, consider the host's health.

**Template Name**

knox\_gateway\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Knox Gateway Log Directory Free Space

This Knox Gateway health test checks that the filesystem containing the log directory of this Knox Gateway has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Knox Gateway monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Knox Gateway Process Status

This Knox Gateway health test checks that the Cloudera Manager Agent on the Knox Gateway host is heart beating correctly and that the process associated with the Knox Gateway role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Knox Gateway process, a lack of connectivity to the Cloudera Manager Agent on the Knox Gateway host, or a problem with the Cloudera Manager Agent. This test can fail either because the Knox Gateway has crashed or because the Knox Gateway will not start or stop in a timely fashion. Check the Knox Gateway logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Knox Gateway host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Knox Gateway host, or look in the Cloudera Manager Agent logs on the Knox Gateway host for more details. This test can be enabled or disabled using the Knox Gateway Process Health Test Knox Gateway monitoring setting.

Short Name: Process Status

### Knox Gateway Process Health Test

#### Description

Enables the health test that the Knox Gateway's process state is consistent with the role configuration

#### Template Name

knox\_gateway\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Knox Gateway Swap Memory Usage

This Knox Gateway health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Knox Gateway Swap Memory Usage Rate Beta

This Knox Gateway health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Knox Gateway Unexpected Exits

This Knox Gateway health test checks that the Knox Gateway has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Knox Gateway monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Knox IDBroker Health Tests



## Knox IDBroker Audit Pipeline Test

This Knox IDBroker health test checks that the Auditing for the Knox IDBroker role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Knox IDBroker process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Knox IDBroker host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Knox IDBroker monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Knox IDBroker File Descriptors

This Knox IDBroker health test checks that the number of file descriptors used does not rise above some percentage of the Knox IDBroker file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or

Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Knox IDBroker monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

idbroker\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Knox IDBroker Host Health

This Knox IDBroker health test factors in the health of the host upon which the Knox IDBroker is running. A failure of this test means that the host running the Knox IDBroker is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Knox IDBroker Host Health Test Knox IDBroker monitoring setting.

Short Name: Host Health

### Knox IDBroker Host Health Test

#### Description

When computing the overall Knox IDBroker health, consider the host's health.

#### Template Name

idbroker\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Knox IDBroker Log Directory Free Space

This Knox IDBroker health test checks that the filesystem containing the log directory of this Knox IDBroker has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Knox IDBroker monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Knox IDBroker Process Status**

This Knox IDBroker health test checks that the Cloudera Manager Agent on the Knox IDBroker host is heart beating correctly and that the process associated with the Knox IDBroker role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Knox IDBroker process, a lack of connectivity to the Cloudera Manager Agent on the Knox IDBroker host, or a problem with the Cloudera Manager Agent. This test can fail either because the Knox IDBroker has crashed or because the Knox IDBroker will not start or stop in a timely fashion. Check the Knox IDBroker logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Knox IDBroker host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Knox IDBroker host, or look in the Cloudera Manager Agent logs on the Knox IDBroker host for more details. This test can be enabled or disabled using the Knox IDBroker Process Health Test Knox IDBroker monitoring setting.

Short Name: Process Status

**Knox IDBroker Process Health Test****Description**

Enables the health test that the Knox IDBroker's process state is consistent with the role configuration

**Template Name**

idbroker\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Knox IDBroker Swap Memory Usage**

This Knox IDBroker health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

**Process Swap Memory Thresholds****Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Knox IDBroker Swap Memory Usage Rate Beta

This Knox IDBroker health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Knox IDBroker Unexpected Exits

This Knox IDBroker health test checks that the Knox IDBroker has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Knox IDBroker monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Kudu Health Tests

### Kudu Master Health

This is a Kudu service-level health test that checks that enough of the Masters in the cluster are healthy. The test returns "Concerning" health if the number of healthy Masters falls below a warning threshold, expressed as a percentage of the total number of Masters. The test returns "Bad" health if the number of healthy and "Concerning" Masters falls below a critical threshold, expressed as a percentage of the total number of Masters. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Masters, this test would return "Good" health if 95 or more Masters have good health. This test would return "Concerning" health if at least 90 Masters have either "Good" or "Concerning" health. If more than 10 Masters have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Masters. Check the status of the individual Masters for more information. This test can be configured using the Kudu Kudu service-wide monitoring setting.

Short Name: Master Health

### Healthy Master Monitoring Thresholds

#### Description

The health test thresholds of the overall Master health. The check returns "Concerning" health if the percentage of "Healthy" Masters falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Masters falls below the critical threshold.

#### Template Name

KUDU\_KUDU\_MASTER\_healthy\_thresholds

#### Default Value

critical:60.0, warning:80.1

#### Unit(s)

PERCENT

## Kudu Tablet Server Health

This is a Kudu service-level health test that checks that enough of the Tablet Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Tablet Servers falls below a warning threshold, expressed as a percentage of the total number of Tablet Servers. The test returns "Bad" health if the number of healthy and "Concerning" Tablet Servers falls below a critical threshold, expressed as a percentage of the total number of Tablet Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Tablet Servers, this test would return "Good" health if 95 or more Tablet Servers have good health. This test would return "Concerning" health if at least 90 Tablet Servers have either "Good" or "Concerning" health. If more than 10 Tablet Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Tablet Servers. Check the status of the individual Tablet Servers for more information. This test can be configured using the Kudu Kudu service-wide monitoring setting.

Short Name: Tablet Server Health

### Healthy Tablet Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Tablet Server health. The check returns "Concerning" health if the percentage of "Healthy" Tablet Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Tablet Servers falls below the critical threshold.

#### Template Name

KUDU\_KUDU\_TSERVER\_healthy\_thresholds

#### Default Value

critical:50.0, warning:75.0

#### Unit(s)

PERCENT

## LLAP Proxy Health Tests

### LLAP Proxy Audit Pipeline Test

This LLAP Proxy health test checks that the Auditing for the LLAP Proxy role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of LLAP Proxy process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the LLAP Proxy host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check LLAP Proxy monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

## LLAP Proxy File Descriptors

This LLAP Proxy health test checks that the number of file descriptors used does not rise above some percentage of the LLAP Proxy file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds LLAP Proxy monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`llaproxy_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## LLAP Proxy Heap Dump Directory Free Space

This LLAP Proxy health test checks that the filesystem containing the heap dump directory of this LLAP Proxy has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds LLAP Proxy monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## LLAP Proxy Host Health

This LLAP Proxy health test factors in the health of the host upon which the LLAP Proxy is running. A failure of this test means that the host running the LLAP Proxy is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the LLAP Proxy Host Health Test LLAP Proxy monitoring setting.

Short Name: Host Health

### LLAP Proxy Host Health Test

#### Description

When computing the overall LLAP Proxy health, consider the host's health.

#### Template Name

llaproxy\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## LLAP Proxy LLAP Daemons Ready Check

This is an LLAP daemons health test that checks whether LLAP daemons are ready to process queries. This test can be configured using the LLAP Proxy and Hive LLAP Daemons Ready Status Thresholds llap\_proxy monitoring settings.

Short Name: LLAP Daemons Ready Check



### Hive LLAP Daemons Ready Status Startup Tolerance

**Description**

Bad health state will be shown if, after this amount of time (after starting LLAP proxy role), 0 LLAP daemons are running.

**Template Name**

llapd\_ready\_status\_check\_daemon\_startup\_tolerance

**Default Value**

300

**Unit(s)**

SECONDS

### Hive LLAP Daemons Ready Status Thresholds

**Description**

The health test thresholds for monitoring the number of active LLAP daemons.

**Template Name**

llapd\_ready\_status\_thresholds

**Default Value**

critical:25.0, warning:75.0

**Unit(s)**

no unit

### Hive LLAP Proxy Role Ready Status Startup Tolerance

**Description**

Startup Tolerance time of the LLAP proxy role in which no health test is run. This is recommended to be kept minimal.

**Template Name**

llapd\_ready\_status\_check\_role\_startup\_tolerance

**Default Value**

1

**Unit(s)**

SECONDS

## LLAP Proxy Log Directory Free Space

This LLAP Proxy health test checks that the filesystem containing the log directory of this LLAP Proxy has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds LLAP Proxy monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**LLAP Proxy Pause Duration**

This LLAP Proxy health test checks that the LLAP Proxy threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the LLAP Proxy that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the LLAP Proxy is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the LLAP Proxy logs for any pause monitor output and check garbage collection metrics exposed by the LLAP Proxy. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period LLAP Proxy monitoring settings.

Short Name: Pause Duration

**Pause Duration Monitoring Period****Description**

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

llaproxy\_pause\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Pause Duration Thresholds****Description**

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

**Template Name**

llaproxy\_pause\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## LLAP Proxy Process Status

This LLAP Proxy health test checks that the Cloudera Manager Agent on the LLAP Proxy host is heart beating correctly and that the process associated with the LLAP Proxy role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the LLAP Proxy process, a lack of connectivity to the Cloudera Manager Agent on the LLAP Proxy host, or a problem with the Cloudera Manager Agent. This test can fail either because the LLAP Proxy has crashed or because the LLAP Proxy will not start or stop in a timely fashion. Check the LLAP Proxy logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the LLAP Proxy host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the LLAP Proxy host, or look in the Cloudera Manager Agent logs on the LLAP Proxy host for more details. This test can be enabled or disabled using the LLAP Proxy Process Health Test LLAP Proxy monitoring setting.

Short Name: Process Status

### LLAP Proxy Process Health Test

#### Description

Enables the health test that the LLAP Proxy's process state is consistent with the role configuration

#### Template Name

`llaproxy_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## LLAP Proxy Swap Memory Usage

This LLAP Proxy health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## LLAP Proxy Swap Memory Usage Rate Beta

This LLAP Proxy health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## LLAP Proxy Unexpected Exits

This LLAP Proxy health test checks that the LLAP Proxy has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period LLAP Proxy monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Lily HBase Indexer Health Tests

### Lily HBase Indexer Audit Pipeline Test

This Lily HBase Indexer health test checks that the Auditing for the Lily HBase Indexer role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Lily HBase Indexer process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Lily HBase Indexer host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Lily HBase Indexer monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

```
mgmt_navigator_failure_window
```

**Default Value**

```
20
```

**Unit(s)**

```
MINUTES
```

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

```
mgmt_navigator_failure_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
BYTES
```

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

```
mgmt_navigator_status_check_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## Lily HBase Indexer File Descriptors

This Lily HBase Indexer health test checks that the number of file descriptors used does not rise above some percentage of the Lily HBase Indexer file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Lily HBase Indexer monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

hbase\_indexer\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Lily HBase Indexer Heap Dump Directory Free Space

This Lily HBase Indexer health test checks that the filesystem containing the heap dump directory of this Lily HBase Indexer has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Lily HBase Indexer monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Lily HBase Indexer Host Health

This Lily HBase Indexer health test factors in the health of the host upon which the Lily HBase Indexer is running. A failure of this test means that the host running the Lily HBase Indexer is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Lily HBase Indexer Host Health Test Lily HBase Indexer monitoring setting.

Short Name: Host Health

### Lily HBase Indexer Host Health Test

**Description**

When computing the overall Lily HBase Indexer health, consider the host's health.

**Template Name**

hbase\_indexer\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Lily HBase Indexer Log Directory Free Space

This Lily HBase Indexer health test checks that the filesystem containing the log directory of this Lily HBase Indexer has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Lily HBase Indexer monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Lily HBase Indexer Process Status

This Lily HBase Indexer health test checks that the Cloudera Manager Agent on the Lily HBase Indexer host is heart beating correctly and that the process associated with the Lily HBase Indexer role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Lily HBase Indexer process, a lack of connectivity to the Cloudera Manager Agent on the Lily HBase Indexer host, or a problem with the Cloudera Manager Agent. This test can fail either because the Lily HBase Indexer has crashed or because the Lily HBase Indexer will not start or stop in a timely fashion. Check the Lily HBase Indexer logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Lily HBase Indexer host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Lily HBase Indexer host, or look in the Cloudera Manager Agent logs on the Lily HBase Indexer host for more details. This test can be enabled or disabled using the Lily HBase Indexer Process Health Test Lily HBase Indexer monitoring setting.

Short Name: Process Status

### Lily HBase Indexer Process Health Test

**Description**

Enables the health test that the Lily HBase Indexer's process state is consistent with the role configuration

**Template Name**

hbase\_indexer\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Lily HBase Indexer Swap Memory Usage

This Lily HBase Indexer health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES



## Lily HBase Indexer Swap Memory Usage Rate Beta

This Lily HBase Indexer health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Lily HBase Indexer Unexpected Exits

This Lily HBase Indexer health test checks that the Lily HBase Indexer has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Lily HBase Indexer monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

## MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

`unexpected_exits_thresholds`

**Default Value**

`critical:any, warning:never`

**Unit(s)**

no unit

## Livy Health Tests

### Livy Server Health

This is a Livy service-level health test that checks that enough of the Livy Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Livy Servers falls below a warning threshold, expressed as a percentage of the total number of Livy Servers. The test returns "Bad" health if the number of healthy and "Concerning" Livy Servers falls below a critical threshold, expressed as a percentage of the total number of Livy Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Livy Servers, this test would return "Good" health if 95 or more Livy Servers have good health. This test would return "Concerning" health if at least 90 Livy Servers have either "Good" or "Concerning" health. If more than 10 Livy Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Livy Servers. Check the status of the individual Livy Servers for more information. This test can be configured using the Livy Livy service-wide monitoring setting.

Short Name: Livy Server Health

**Healthy Livy Server Monitoring Thresholds****Description**

The health test thresholds of the overall Livy Server health. The check returns "Concerning" health if the percentage of "Healthy" Livy Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Livy Servers falls below the critical threshold.

**Template Name**

`LIVY_LIVY_SERVER_healthy_thresholds`

**Default Value**

`critical:90.0, warning:99.0`

**Unit(s)**

PERCENT

## Livy Server Health Tests

### Livy Server Audit Pipeline Test

This Livy Server health test checks that the Auditing for the Livy Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Livy Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Livy Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Livy Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Livy Server File Descriptors

This Livy Server health test checks that the number of file descriptors used does not rise above some percentage of the Livy Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Livy Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

livy\_server\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Livy Server Host Health

This Livy Server health test factors in the health of the host upon which the Livy Server is running. A failure of this test means that the host running the Livy Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Livy Server Host Health Test Livy Server monitoring setting.

Short Name: Host Health

### Livy Server Host Health Test

#### Description

When computing the overall Livy Server health, consider the host's health.

#### Template Name

livy\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Livy Server Log Directory Free Space

This Livy Server health test checks that the filesystem containing the log directory of this Livy Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Livy Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Livy Server Process Status

This Livy Server health test checks that the Cloudera Manager Agent on the Livy Server host is heart beating correctly and that the process associated with the Livy Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Livy Server process, a lack of connectivity to the Cloudera Manager Agent on the Livy Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Livy Server has crashed or because the Livy Server will not start or stop in a timely fashion. Check the Livy Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Livy Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Livy Server host, or look in the Cloudera Manager Agent logs on the Livy Server host for more details. This test can be enabled or disabled using the Livy Server Process Health Test Livy Server monitoring setting.

Short Name: Process Status

### Livy Server Process Health Test

**Description**

Enables the health test that the Livy Server's process state is consistent with the role configuration

**Template Name**

livy\_server\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Livy Server Swap Memory Usage

This Livy Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Livy Server Swap Memory Usage Rate Beta

This Livy Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Livy Server Unexpected Exits

This Livy Server health test checks that the Livy Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Livy Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Livy Server for Spark 3 Health Tests

### Livy Server for Spark 3 Audit Pipeline Test

This Livy Server for Spark 3 health test checks that the Auditing for the Livy Server for Spark 3 role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Livy Server for Spark 3 process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Livy Server for Spark 3 host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Livy Server for Spark 3 monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

## BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Livy Server for Spark 3 File Descriptors**

This Livy Server for Spark 3 health test checks that the number of file descriptors used does not rise above some percentage of the Livy Server for Spark 3 file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Livy Server for Spark 3 monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

livy\_server\_for\_spark3\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Livy Server for Spark 3 Host Health**

This Livy Server for Spark 3 health test factors in the health of the host upon which the Livy Server for Spark 3 is running. A failure of this test means that the host running the Livy Server for Spark 3 is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Livy Server for Spark 3 Host Health Test Livy Server for Spark 3 monitoring setting.

Short Name: Host Health

**Livy Server for Spark 3 Host Health Test****Description**

When computing the overall Livy Server for Spark 3 health, consider the host's health.

**Template Name**

livy\_server\_for\_spark3\_host\_health\_enabled

**Default Value**

true

**Unit(s)**



no unit

## Livy Server for Spark 3 Log Directory Free Space

This Livy Server for Spark 3 health test checks that the filesystem containing the log directory of this Livy Server for Spark 3 has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Livy Server for Spark 3 monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Livy Server for Spark 3 Process Status

This Livy Server for Spark 3 health test checks that the Cloudera Manager Agent on the Livy Server for Spark 3 host is heart beating correctly and that the process associated with the Livy Server for Spark 3 role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Livy Server for Spark 3 process, a lack of connectivity to the Cloudera Manager Agent on the Livy Server for Spark 3 host, or a problem with the Cloudera Manager Agent. This test can fail either because the Livy Server for Spark 3 has crashed or because the Livy Server for Spark 3 will not start or stop in a timely fashion. Check the Livy Server for Spark 3 logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Livy Server for Spark 3 host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Livy Server for Spark 3 host, or look in the Cloudera Manager Agent logs on the Livy Server for Spark 3 host for more details. This test can be enabled or disabled using the Livy Server for Spark 3 Process Health Test Livy Server for Spark 3 monitoring setting.

Short Name: Process Status

### Livy Server for Spark 3 Process Health Test

#### Description

Enables the health test that the Livy Server for Spark 3's process state is consistent with the role configuration

**Template Name**

livy\_server\_for\_spark3\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Livy Server for Spark 3 Swap Memory Usage

This Livy Server for Spark 3 health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Livy Server for Spark 3 Swap Memory Usage Rate Beta

This Livy Server for Spark 3 health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Livy Server for Spark 3 Unexpected Exits

This Livy Server for Spark 3 health test checks that the Livy Server for Spark 3 has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Livy Server for Spark 3 monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Livy for Spark 3 Health Tests

### Livy for Spark 3 Livy Server for Spark 3 Health

This is a Livy for Spark 3 service-level health test that checks that enough of the Livy Server for Spark 3s in the cluster are healthy. The test returns "Concerning" health if the number of healthy Livy Server for Spark 3s falls below a warning threshold, expressed as a percentage of the total number of Livy Server for Spark 3s. The test returns "Bad"

health if the number of healthy and "Concerning" Livy Server for Spark 3s falls below a critical threshold, expressed as a percentage of the total number of Livy Server for Spark 3s. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Livy Server for Spark 3s, this test would return "Good" health if 95 or more Livy Server for Spark 3s have good health. This test would return "Concerning" health if at least 90 Livy Server for Spark 3s have either "Good" or "Concerning" health. If more than 10 Livy Server for Spark 3s have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Livy Server for Spark 3s. Check the status of the individual Livy Server for Spark 3s for more information. This test can be configured using the Livy for Spark 3 Livy for Spark 3 service-wide monitoring setting.

Short Name: Livy Server for Spark 3 Health

### Healthy Livy Server for Spark 3 Monitoring Thresholds

#### Description

The health test thresholds of the overall Livy Server for Spark 3 health. The check returns "Concerning" health if the percentage of "Healthy" Livy Server for Spark 3s falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Livy Server for Spark 3s falls below the critical threshold.

#### Template Name

LIVY\_FOR\_SPARK3\_LIVY\_SERVER\_FOR\_SPARK3\_healthy\_thresholds

#### Default Value

critical:90.0, warning:99.0

#### Unit(s)

PERCENT

## Load Balancer Health Tests

### Load Balancer Audit Pipeline Test

This Load Balancer health test checks that the Auditing for the Load Balancer role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Load Balancer process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Load Balancer host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Load Balancer monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**Load Balancer File Descriptors**

This Load Balancer health test checks that the number of file descriptors used does not rise above some percentage of the Load Balancer file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Load Balancer monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`hue_load_balancer_fd_thresholds`

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Load Balancer Heap Dump Directory Free Space**

This Load Balancer health test checks that the filesystem containing the heap dump directory of this Load Balancer has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Load Balancer monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Load Balancer Host Health

This Load Balancer health test factors in the health of the host upon which the Load Balancer is running. A failure of this test means that the host running the Load Balancer is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Load Balancer Host Health Test Load Balancer monitoring setting.

Short Name: Host Health

### Load Balancer Host Health Test

#### Description

When computing the overall Load Balancer health, consider the host's health.

#### Template Name

hue\_load\_balancer\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Load Balancer Log Directory Free Space

This Load Balancer health test checks that the filesystem containing the log directory of this Load Balancer has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Load Balancer monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Load Balancer Process Status

This Load Balancer health test checks that the Cloudera Manager Agent on the Load Balancer host is heart beating correctly and that the process associated with the Load Balancer role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Load Balancer process, a lack of connectivity to the Cloudera Manager Agent on the Load Balancer host, or a problem with the Cloudera Manager Agent. This test can fail either because the Load Balancer has crashed or because the Load Balancer will not start or stop in a timely fashion. Check the Load Balancer logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Load Balancer host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Load Balancer host, or look in the Cloudera Manager Agent logs on the Load Balancer host for more details. This test can be enabled or disabled using the Load Balancer Process Health Test Load Balancer monitoring setting.

Short Name: Process Status

### Load Balancer Process Health Test

#### Description

Enables the health test that the Load Balancer's process state is consistent with the role configuration

#### Template Name

hue\_load\_balancer\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Load Balancer Swap Memory Usage

This Load Balancer health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## Load Balancer Swap Memory Usage Rate Beta

This Load Balancer health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES



## Load Balancer Unexpected Exits

This Load Balancer health test checks that the Load Balancer has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Load Balancer monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## MapReduce Health Tests

### MapReduce Failover Controllers Health

This is a MapReduce service-level health test that checks that all the Failover Controllers associated with this service are healthy and running. The test returns "Bad" health if any of Failover Controllers that the service depends on is unhealthy or not running. Check the Failover Controllers logs for more details. This test can be enabled or disabled using the Failover Controllers Healthy service-wide monitoring setting.

Short Name: Failover Controllers Health

### Failover Controllers Healthy

#### Description

Enables the health check that verifies that the failover controllers associated with this service are healthy and running.

#### Template Name

|                      |                                      |
|----------------------|--------------------------------------|
|                      | failover_controllers_healthy_enabled |
| <b>Default Value</b> | true                                 |
| <b>Unit(s)</b>       | no unit                              |

## MapReduce JobTracker Health

This is a MapReduce service-level health test that checks for an active, healthy JobTracker. The test returns "Bad" health if the service is running and an active JobTracker cannot be found. If an active JobTracker is found, then the test checks the health of that JobTracker as well as the health of any standby JobTracker configured. A "Good" health result will only be returned if both the active and Standby JobTrackers are healthy. A failure of this health test may indicate stopped or unhealthy JobTracker roles, or it may indicate a problem with communication between the Cloudera Manager Service Monitor and the JobTrackers. Check the status of the MapReduce service's JobTracker roles and look in the Cloudera Manager Service Monitor's log files for more information when this test fails. This test can be enabled or disabled using the JobTracker Role Health Test MapReduce service-wide monitoring setting. The check for a healthy standby JobTracker can be enabled or disabled with Standby JobTracker Health Test. In addition, the Active JobTracker Detection Window can be used to adjust the amount of time that the Cloudera Manager Service Monitor has to detect the active JobTracker before this health test fails, and the JobTracker Activation Startup Tolerance can be used to adjust the amount of time around JobTracker startup that the test allows for the JobTracker to be made active.

Short Name: JobTracker Health

### Active JobTracker Detection Window

#### Description

The tolerance window that will be used in Mapreduce service tests that depend on detection of the active JobTracker.

#### Template Name

mapreduce\_active\_jobtracker\_detection\_window

#### Default Value

3

#### Unit(s)

MINUTES

### JobTracker Activation Startup Tolerance

#### Description

The amount of time after JobTracker(s) start that the lack of an active JobTracker will be tolerated. This is intended to allow either the auto-failover daemon to make a JobTracker active, or a specifically issued failover command to take effect. This is an advanced option that does not often need to be changed.

#### Template Name

mapreduce\_jobtracker\_activation\_startup\_tolerance

#### Default Value

180

#### Unit(s)

SECONDS

### JobTracker Role Health Test

#### Description

When computing the overall MapReduce cluster health, consider the JobTracker's health

**Template Name**

mapreduce\_jobtracker\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Standby JobTracker Health Test****Description**

When computing the overall cluster health, consider the health of the standby JobTracker.

**Template Name**

mapreduce\_standby\_jobtrackers\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**MapReduce TaskTracker Health**

This is a MapReduce service-level health test that checks that enough of the TaskTrackers in the cluster are healthy. The test returns "Concerning" health if the number of healthy TaskTrackers falls below a warning threshold, expressed as a percentage of the total number of TaskTrackers. The test returns "Bad" health if the number of healthy and "Concerning" TaskTrackers falls below a critical threshold, expressed as a percentage of the total number of TaskTrackers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 TaskTrackers, this test would return "Good" health if 95 or more TaskTrackers have good health. This test would return "Concerning" health if at least 90 TaskTrackers have either "Good" or "Concerning" health. If more than 10 TaskTrackers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy TaskTrackers. Check the status of the individual TaskTrackers for more information. This test can be configured using the MapReduce MapReduce service-wide monitoring setting.

Short Name: TaskTracker Health

**Healthy TaskTracker Monitoring Thresholds****Description**

The health test thresholds of the overall TaskTracker health. The check returns "Concerning" health if the percentage of "Healthy" TaskTrackers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" TaskTrackers falls below the critical threshold.

**Template Name**

mapreduce\_tasktrackers\_healthy\_thresholds

**Default Value**

critical:90.0, warning:95.0

**Unit(s)**

PERCENT

**Master Health Tests**

## Master Audit Pipeline Test

This Master health test checks that the Auditing for the Master role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Master process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Master host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Master monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Master Failed Data Directories

Short Name: Failed Data Directories

## Master File Descriptors

This Master health test checks that the number of file descriptors used does not rise above some percentage of the Master file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Master monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

master\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Master Full Data Directories

Short Name: Full Data Directories

## Master GC Duration

This Master health test checks that the Master is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the Master. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period Master monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

master\_gc\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

master\_gc\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## Master HBase Master Canary

This is an HBase Master health test that checks that a client can connect to and get basic information from the Master in a reasonable amount of time. The test returns "Bad" health if the connection to or basic queries of the Master fail. The test returns "Concerning" health if the connection attempt or queries do not complete in a reasonable time. A failure of this health test may indicate that the Master is failing to satisfy basic client requests correctly or in a timely fashion. Check the status of the Master, and look in the Master logs for more details. This test can be enabled or disabled using the HBase Master Canary Health Test HBase Master monitoring setting.

Short Name: HBase Master Canary

### HBase Master Canary Health Test

**Description**

Enables the health test that a client can connect to the HBase Master

**Template Name**

```
master_canary_health_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## Master HBase Regions In Transition Over Threshold

This is an HBase Master health test that checks whether there are regions staying in transition state for a duration longer than the configured threshold in HBase. The test returns "Bad" health if there are regions in transition over the threshold. A failure of this health test may indicate configuration errors or corrupted hfiles. Check the status of the Master, and look into the Master UI for more details. This test can be enabled or disabled using the HBase Regions In Transition Over Threshold Health Test HBase Master monitoring setting.

Short Name: HBase Regions In Transition Over Threshold

### HBase Regions In Transition Over Threshold Health Test

**Description**

Enable the health test that checks if there are regions in transition over the threshold configured in HBase.

**Template Name**

```
master_regions_in_transition_health_enabled
```

**Default Value**

```
CDH=[[CDH 5.0.0..CDH 8.0.0)=true]
```

**Unit(s)**

no unit

## Master Heap Dump Directory Free Space

This Master health test checks that the filesystem containing the heap dump directory of this Master has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Master monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Master Host Health

This Master health test factors in the health of the host upon which the Master is running. A failure of this test means that the host running the Master is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Master Host Health Test Master monitoring setting.

Short Name: Host Health

### Master Host Health Test

#### Description

When computing the overall Master health, consider the host's health.

#### Template Name

master\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Master Log Directory Free Space

This Master health test checks that the filesystem containing the log directory of this Master has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Master monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Master Process Status

This Master health test checks that the Cloudera Manager Agent on the Master host is heart beating correctly and that the process associated with the Master role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Master process, a lack of connectivity to the Cloudera Manager Agent on the Master host, or a problem with the Cloudera Manager Agent. This test can fail either because the Master has crashed or because the Master will not start or stop in a timely fashion. Check the Master logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Master host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Master host, or look in the Cloudera Manager Agent logs on the Master host for more details. This test can be enabled or disabled using the Master Process Health Test Master monitoring setting.

Short Name: Process Status

### Master Process Health Test

#### Description

Enables the health test that the Master's process state is consistent with the role configuration

#### Template Name

master\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Master Swap Memory Usage



This Master health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Master Swap Memory Usage Rate Beta

This Master health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Master Unexpected Exits

This Master health test checks that the Master has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical

threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Master monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

### Master Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Master, a misconfiguration of the Master, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Master for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Master's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Master's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Master monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

master\_web\_metric\_collection\_enabled

#### Default Value

true

**Unit(s)**

no unit

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

```
master_web_metric_collection_thresholds
```

**Default Value**

```
critical:never, warning:10000.0
```

**Unit(s)**

MILLISECONDS

## Materialized View Engine Health Tests

### Materialized View Engine Audit Pipeline Test

This Materialized View Engine health test checks that the Auditing for the Materialized View Engine role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Materialized View Engine process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Materialized View Engine host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Materialized View Engine monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

```
mgmt_navigator_failure_window
```

**Default Value**

```
20
```

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

```
mgmt_navigator_failure_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

## BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Materialized View Engine File Descriptors**

This Materialized View Engine health test checks that the number of file descriptors used does not rise above some percentage of the Materialized View Engine file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Materialized View Engine monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

materialized\_view\_engine\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Materialized View Engine Host Health**

This Materialized View Engine health test factors in the health of the host upon which the Materialized View Engine is running. A failure of this test means that the host running the Materialized View Engine is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Materialized View Engine Host Health Test Materialized View Engine monitoring setting.

Short Name: Host Health

**Materialized View Engine Host Health Test****Description**

When computing the overall Materialized View Engine health, consider the host's health.

**Template Name**

materialized\_view\_engine\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Materialized View Engine Log Directory Free Space

This Materialized View Engine health test checks that the filesystem containing the log directory of this Materialized View Engine has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Materialized View Engine monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Materialized View Engine Process Status

This Materialized View Engine health test checks that the Cloudera Manager Agent on the Materialized View Engine host is heart beating correctly and that the process associated with the Materialized View Engine role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Materialized View Engine process, a lack of connectivity to the Cloudera Manager Agent on the Materialized View Engine host, or a problem with the Cloudera Manager Agent. This test can fail either because the Materialized View Engine has crashed or because the Materialized View Engine will not start or stop in a timely fashion. Check the Materialized View Engine logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Materialized View Engine host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Materialized View Engine host, or look in the Cloudera Manager Agent logs on the Materialized View Engine host for more details. This test can be enabled or disabled using the Materialized View Engine Process Health Test Materialized View Engine monitoring setting.

Short Name: Process Status

### Materialized View Engine Process Health Test

#### Description

Enables the health test that the Materialized View Engine's process state is consistent with the role configuration

**Template Name**

materialized\_view\_engine\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Materialized View Engine Swap Memory Usage

This Materialized View Engine health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Materialized View Engine Swap Memory Usage Rate Beta

This Materialized View Engine health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Materialized View Engine Unexpected Exits

This Materialized View Engine health test checks that the Materialized View Engine has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Materialized View Engine monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Monitor Health Tests

### Monitor Audit Pipeline Test

This Monitor health test checks that the Auditing for the Monitor role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Monitor process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Monitor

host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Monitor monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Monitor File Descriptors

This Monitor health test checks that the number of file descriptors used does not rise above some percentage of the Monitor file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Monitor monitoring setting.

Short Name: File Descriptors



### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

accumulo\_monitor\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Monitor Host Health

This Monitor health test factors in the health of the host upon which the Monitor is running. A failure of this test means that the host running the Monitor is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Monitor Host Health Test Monitor monitoring setting.

Short Name: Host Health

### Monitor Host Health Test

#### Description

When computing the overall Monitor health, consider the host's health.

#### Template Name

accumulo\_monitor\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Monitor Log Directory Free Space

This Monitor health test checks that the filesystem containing the log directory of this Monitor has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Monitor monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Monitor Process Status

This Monitor health test checks that the Cloudera Manager Agent on the Monitor host is heart beating correctly and that the process associated with the Monitor role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Monitor process, a lack of connectivity to the Cloudera Manager Agent on the Monitor host, or a problem with the Cloudera Manager Agent. This test can fail either because the Monitor has crashed or because the Monitor will not start or stop in a timely fashion. Check the Monitor logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Monitor host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Monitor host, or look in the Cloudera Manager Agent logs on the Monitor host for more details. This test can be enabled or disabled using the Monitor Process Health Test Monitor monitoring setting.

Short Name: Process Status

### Monitor Process Health Test

**Description**

Enables the health test that the Monitor's process state is consistent with the role configuration

**Template Name**

accumulo\_monitor\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Monitor Swap Memory Usage

This Monitor health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Monitor Swap Memory Usage Rate Beta

This Monitor health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Monitor Unexpected Exits

This Monitor health test checks that the Monitor has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Monitor monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## NFS Gateway Health Tests

### NFS Gateway Audit Pipeline Test

This NFS Gateway health test checks that the Auditing for the NFS Gateway role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of NFS Gateway process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the NFS Gateway host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check NFS Gateway monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**NFS Gateway File Descriptors**

This NFS Gateway health test checks that the number of file descriptors used does not rise above some percentage of the NFS Gateway file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds NFS Gateway monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

nfsgateway\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**NFS Gateway Heap Dump Directory Free Space**

This NFS Gateway health test checks that the filesystem containing the heap dump directory of this NFS Gateway has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds NFS Gateway monitoring settings.

Short Name: Heap Dump Directory Free Space

**Heap Dump Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Heap Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**NFS Gateway Host Health**

This NFS Gateway health test factors in the health of the host upon which the NFS Gateway is running. A failure of this test means that the host running the NFS Gateway is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the NFS Gateway Host Health Test NFS Gateway monitoring setting.

Short Name: Host Health

**NFS Gateway Host Health Test****Description**

When computing the overall NFS Gateway health, consider the host's health.

**Template Name**

nfsgateway\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**NFS Gateway Log Directory Free Space**

This NFS Gateway health test checks that the filesystem containing the log directory of this NFS Gateway has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds NFS Gateway monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**NFS Gateway Process Status**

This NFS Gateway health test checks that the Cloudera Manager Agent on the NFS Gateway host is heart beating correctly and that the process associated with the NFS Gateway role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the NFS Gateway process, a lack of connectivity to the Cloudera Manager Agent on the NFS Gateway host, or a problem with the Cloudera Manager Agent. This test can fail either because the NFS Gateway has crashed or because the NFS Gateway will not start or stop in a timely fashion. Check the NFS Gateway logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the NFS Gateway host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the NFS Gateway host, or look in the Cloudera Manager Agent logs on the NFS Gateway host for more details. This test can be enabled or disabled using the NFS Gateway Process Health Test NFS Gateway monitoring setting.

Short Name: Process Status

**NFS Gateway Process Health Test****Description**

Enables the health test that the NFS Gateway's process state is consistent with the role configuration

**Template Name**

nfsgateway\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**NFS Gateway Swap Memory Usage**

This NFS Gateway health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

**Process Swap Memory Thresholds****Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## NFS Gateway Swap Memory Usage Rate Beta

This NFS Gateway health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## NFS Gateway Temporary Dump Directory Free Space

This is a NFS Gateway health test that checks that the filesystem containing the Temporary Dump Directory of this NFS Gateway has sufficient free space. See the Temporary Dump Directory description on the NFS Gateway configuration page for more information on this directory type. This test can be configured using the Temporary Dump Directory Free Space Monitoring Absolute Thresholds and Temporary Dump Directory Free Space Monitoring Percentage Thresholds NFS Gateway monitoring settings.

Short Name: Temporary Dump Directory Free Space

### Temporary Dump Directory Free Space Monitoring Absolute Thresholds

**Description**



The health test thresholds for monitoring of free space on the filesystem that contains this role's Temporary Dump Directory.

**Template Name**

nfsgateway\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Temporary Dump Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Temporary Dump Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Temporary Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

nfsgateway\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**NFS Gateway Unexpected Exits**

This NFS Gateway health test checks that the NFS Gateway has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period NFS Gateway monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## NameNode Health Tests

### NameNode Audit Pipeline Test

This NameNode health test checks that the Auditing for the NameNode role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of NameNode process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the NameNode host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check NameNode monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

```
mgmt_navigator_failure_window
```

**Default Value**

```
20
```

**Unit(s)**

```
MINUTES
```

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

```
mgmt_navigator_failure_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
BYTES
```

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

```
mgmt_navigator_status_check_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## NameNode Checkpoint Status

This is a NameNode health test that checks the NameNode's filesystem checkpoint is no older than some percentage of the Filesystem Checkpoint Period and that the number of transactions that have occurred since the last filesystem checkpoint does not exceed some percentage of the Filesystem Checkpoint Transaction Limit. A failure of this health test may indicate a problem with the active NameNode or its configured checkpointing role, i.e. either a standby NameNode or a SecondaryNameNode. Check the NameNode logs or the logs of the checkpointing role for more details. This test can be configured using the Filesystem Checkpoint Age Monitoring Thresholds and Filesystem Checkpoint Transactions Monitoring Thresholds NameNode monitoring setting.

Short Name: Checkpoint Status

### Filesystem Checkpoint Age Monitoring Thresholds

**Description**

The health test thresholds of the age of the HDFS namespace checkpoint. Specified as a percentage of the configured checkpoint interval.

**Template Name**

namenode\_checkpoint\_age\_thresholds

**Default Value**

critical:400.0, warning:200.0

**Unit(s)**

PERCENT

### Filesystem Checkpoint Transactions Monitoring Thresholds

**Description**

The health test thresholds of the number of transactions since the last HDFS namespace checkpoint. Specified as a percentage of the configured checkpointing transaction limit.

**Template Name**

namenode\_checkpoint\_transactions\_thresholds

**Default Value**

critical:400.0, warning:200.0

**Unit(s)**

PERCENT

## NameNode File Descriptors

This NameNode health test checks that the number of file descriptors used does not rise above some percentage of the NameNode file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds NameNode monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

namenode\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## NameNode Heap Dump Directory Free Space

This NameNode health test checks that the filesystem containing the heap dump directory of this NameNode has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds NameNode monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## NameNode Host Health

This NameNode health test factors in the health of the host upon which the NameNode is running. A failure of this test means that the host running the NameNode is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the NameNode Host Health Test NameNode monitoring setting.

Short Name: Host Health

### NameNode Host Health Test

**Description**

When computing the overall NameNode health, consider the host's health.

**Template Name**

namenode\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## NameNode JournalNode Sync Status

This is a NameNode health test that checks that the NameNode is not out-of-sync with too many JournalNodes. This test is disabled if Quorum-based storage is not in use. A failure of this health test may indicate a problem with the JournalNodes or a communication problem between the NameNode and the JournalNodes. Check the NameNode and the JournalNode logs for more details. This test can be configured using the NameNode Out-Of-Sync JournalNodes Thresholds NameNode monitoring setting.

Short Name: JournalNode Sync Status

### NameNode Out-Of-Sync JournalNodes Thresholds

**Description**

The health check thresholds for the number of out-of-sync JournalNodes for this NameNode.

**Template Name**

namenode\_out\_of\_sync\_journal\_nodes\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## NameNode Log Directory Free Space

This NameNode health test checks that the filesystem containing the log directory of this NameNode has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds NameNode monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## NameNode Name Directory Status

This is a NameNode health test that checks for whether the NameNode has reported any failed data directories. A failure of this health test indicates that there is a problem with one or more data directories on the NameNode. See the NameNode system web UI for more information. Note that unless the configuration `dfs.namenode.name.dir.restore` is configured to true, the NameNode will require a restart to recognize data directories that have been restored (e.g., after an NFS outage). This test can be configured using the NameNode Directory Failures Thresholds NameNode monitoring setting.

Short Name: Name Directory Status

### NameNode Directory Failures Thresholds

**Description**

The health test thresholds of failed status directories in a NameNode.

**Template Name**

namenode\_directory\_failures\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## NameNode NameNode Data Directories Free Space

This is a NameNode health test that checks that the filesystem containing the NameNode Data Directories of this NameNode has sufficient free space. See the NameNode Data Directories description on the NameNode configuration page for more information on this directory type. This test can be configured using the NameNode Data Directories Free Space Monitoring Absolute Thresholds and NameNode Data Directories Free Space Monitoring Percentage Thresholds NameNode monitoring settings.

Short Name: NameNode Data Directories Free Space

### NameNode Data Directories Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's NameNode Data Directories.

**Template Name**

namenode\_data\_directories\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

## BYTES

**NameNode Data Directories Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's NameNode Data Directories. Specified as a percentage of the capacity on that filesystem. This setting is not used if a NameNode Data Directories Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

namenode\_data\_directories\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**NameNode Pause Duration**

This NameNode health test checks that the NameNode threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the NameNode that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the NameNode is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the NameNode logs for any pause monitor output and check garbage collection metrics exposed by the NameNode. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period NameNode monitoring settings.

Short Name: Pause Duration

**Pause Duration Monitoring Period****Description**

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

namenode\_pause\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Pause Duration Thresholds****Description**

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

**Template Name**

namenode\_pause\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## NameNode Process Status

This NameNode health test checks that the Cloudera Manager Agent on the NameNode host is heart beating correctly and that the process associated with the NameNode role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the NameNode process, a lack of connectivity to the Cloudera Manager Agent on the NameNode host, or a problem with the Cloudera Manager Agent. This test can fail either because the NameNode has crashed or because the NameNode will not start or stop in a timely fashion. Check the NameNode logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the NameNode host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the NameNode host, or look in the Cloudera Manager Agent logs on the NameNode host for more details. This test can be enabled or disabled using the NameNode Process Health Test NameNode monitoring setting.

Short Name: Process Status

### NameNode Process Health Test

#### Description

Enables the health test that the NameNode's process state is consistent with the role configuration

#### Template Name

`namenode_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## NameNode RPC Latency

This is a NameNode health test that checks that a moving average of the average time it takes for the NameNode to respond to requests does not exceed some value. A failure of this health test could indicate misconfiguration of the NameNode, that the NameNode is having a problem writing to one of its data directories, or may indicate a capacity planning problem. Check the NameNode's `RpcQueueTime_avg_time` and if this indicates that the bulk of the RPC latency is spent with requests queued, try increasing the NameNode Handler Count. If the NameNode's `RpcProcessingTime_avg_time` indicates the bulk of the RPC latency is due to request processing, check to see that each of the directories in which the HDFS metadata is being stored is performing adequately. This test can be configured using the NameNode RPC Latency Thresholds and NameNode RPC Latency Monitoring Window NameNode monitoring settings.

Short Name: RPC Latency

### NameNode RPC Latency Monitoring Window

#### Description

The period to review when computing the moving average of the NameNode's RPC latency.

#### Template Name

`namenode_rpc_latency_window`

#### Default Value

`5`

#### Unit(s)

`MINUTES`

### NameNode RPC Latency Thresholds

#### Description

The health check thresholds of the NameNode's RPC latency.



**Template Name**

namenode\_rpc\_latency\_thresholds

**Default Value**

critical:5000.0, warning:1000.0

**Unit(s)**

MILLISECONDS

## NameNode Rolling Upgrade Status

This is a NameNode health test that checks for the presence of an unfinalized HDFS rolling metadata upgrade. If an unfinalized HDFS rolling metadata upgrade is detected, this test returns "Concerning" health. A failure of this health test indicates that a previously performed rolling metadata upgrade needs to be finalized. This can be done via HDFS Finalize Rolling Metadata Upgrade command. This test can be enabled or disabled using the HDFS Rolling Metadata Upgrade Status Health Test NameNode monitoring setting.

Short Name: Rolling Upgrade Status

### HDFS Rolling Metadata Upgrade Status Health Test

**Description**

Enables the health test of the rolling metadata upgrade status of the NameNode. This covers rolling metadata upgrades. Nonrolling metadata upgrades are covered in a separate health test.

**Template Name**

namenode\_rolling\_upgrade\_status\_enabled

**Default Value**

true

**Unit(s)**

no unit

## NameNode Safe Mode Status

This is a NameNode health test that checks that the NameNode is not in safemode. A failure of this health test indicates that the NameNode is in safemode. Look in the NameNode logs for more details. This test can be enabled or disabled using the NameNode Safemode Health Test NameNode monitoring setting. The Health Test Startup Tolerance NameNode monitoring setting also controls the amount of time at NameNode start up to tolerate safemode.

Short Name: Safe Mode Status

### Health Test Startup Tolerance

**Description**

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

**Template Name**

namenode\_startup\_tolerance

**Default Value**

5

**Unit(s)**

MINUTES

### NameNode Safemode Health Test

**Description**

Enables the health test that the NameNode is not in safemode

**Template Name**

namenode\_safe\_mode\_enabled

**Default Value**

true

**Unit(s)**

no unit

## NameNode Swap Memory Usage

This NameNode health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## NameNode Swap Memory Usage Rate Beta

This NameNode health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## NameNode Unexpected Exits

This NameNode health test checks that the NameNode has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period NameNode monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## NameNode Upgrade Status

This is a NameNode health test that checks for the presence of an unfinalized HDFS metadata upgrade. If an unfinalized HDFS metadata upgrade is detected, this test returns "Concerning" health. A failure of this health test indicates that a previously performed HDFS upgrade needs to be finalized. This can be done via the Finalize Metadata Upgrade NameNode command linked above. This test can be enabled or disabled using the HDFS Metadata Upgrade Status Health Test NameNode monitoring setting.

Short Name: Upgrade Status

### HDFS Metadata Upgrade Status Health Test

#### Description

Enables the health test of the metadata upgrade status of the NameNode. This covers nonrolling metadata upgrades. Rolling metadata upgrades are covered in a separate health test.

#### Template Name

namenode\_upgrade\_status\_enabled

#### Default Value

true

#### Unit(s)

no unit

## NameNode Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the NameNode, a misconfiguration of the NameNode, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the NameNode for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the NameNode's web server are failing or timing out. If the test's failure message indicates an unexpected response, the NameNode's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection NameNode monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

namenode\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

namenode\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Navigator Audit Server Health Tests

## Navigator Audit Server Audit Pipeline Test

This Navigator Audit Server health test checks that the Auditing for the Navigator Audit Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Navigator Audit Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Navigator Audit Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Navigator Audit Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Navigator Audit Server File Descriptors

This Navigator Audit Server health test checks that the number of file descriptors used does not rise above some percentage of the Navigator Audit Server file descriptor limit. A failure of this health test may indicate a bug in

either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Navigator Audit Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

navigator\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Navigator Audit Server GC Duration

This Navigator Audit Server health test checks that the Navigator Audit Server is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the Navigator Audit Server. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period Navigator Audit Server monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

navigator\_gc\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

navigator\_gc\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

### Navigator Audit Server Heap Dump Directory Free Space

This Navigator Audit Server health test checks that the filesystem containing the heap dump directory of this Navigator Audit Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Navigator Audit Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Navigator Audit Server Host Health

This Navigator Audit Server health test factors in the health of the host upon which the Navigator Audit Server is running. A failure of this test means that the host running the Navigator Audit Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Navigator Audit Server Host Health Test Navigator Audit Server monitoring setting.

Short Name: Host Health

### Navigator Audit Server Host Health Test

#### Description

When computing the overall Navigator Audit Server health, consider the host's health.

#### Template Name

navigator\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Navigator Audit Server Log Directory Free Space

This Navigator Audit Server health test checks that the filesystem containing the log directory of this Navigator Audit Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Navigator Audit Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Navigator Audit Server Process Status

This Navigator Audit Server health test checks that the Cloudera Manager Agent on the Navigator Audit Server host is heart beating correctly and that the process associated with the Navigator Audit Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Navigator Audit Server process, a lack of connectivity to the Cloudera Manager Agent on the Navigator Audit Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Navigator Audit Server has crashed or because the Navigator Audit Server will not start or stop in a timely fashion. Check the Navigator Audit Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Navigator Audit Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Navigator Audit Server host, or look in the Cloudera Manager Agent logs on the Navigator Audit Server host for more details. This test can be enabled or disabled using the Navigator Audit Server Process Health Test Navigator Audit Server monitoring setting.

Short Name: Process Status

### Navigator Audit Server Process Health Test

#### Description

Enables the health test that the Navigator Audit Server's process state is consistent with the role configuration



**Template Name**

navigator\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Navigator Audit Server Swap Memory Usage

This Navigator Audit Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Navigator Audit Server Swap Memory Usage Rate Beta

This Navigator Audit Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

|                      |                                 |
|----------------------|---------------------------------|
|                      | process_swap_memory_rate_window |
| <b>Default Value</b> | 5                               |
| <b>Unit(s)</b>       | MINUTES                         |

## Navigator Audit Server Unexpected Exits

This Navigator Audit Server health test checks that the Navigator Audit Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Navigator Audit Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Navigator Audit Server Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Navigator Audit Server, a misconfiguration of the Navigator Audit Server, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Navigator Audit Server for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Navigator Audit Server's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Navigator Audit Server's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Navigator Audit Server monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

navigator\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

navigator\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Navigator Luna KMS Metastore Health Tests

### Navigator Luna KMS Metastore Audit Pipeline Test

This Navigator Luna KMS Metastore health test checks that the Auditing for the Navigator Luna KMS Metastore role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Navigator Luna KMS Metastore process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Navigator Luna KMS Metastore host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Navigator Luna KMS Metastore monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

### Navigator Luna KMS Metastore File Descriptors

This Navigator Luna KMS Metastore health test checks that the number of file descriptors used does not rise above some percentage of the Navigator Luna KMS Metastore file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Navigator Luna KMS Metastore monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`hsmkp_metastore_luna_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Navigator Luna KMS Metastore Host Health

This Navigator Luna KMS Metastore health test factors in the health of the host upon which the Navigator Luna KMS Metastore is running. A failure of this test means that the host running the Navigator Luna KMS Metastore is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Navigator Luna KMS Metastore Host Health Test Navigator Luna KMS Metastore monitoring setting.

Short Name: Host Health

### Navigator Luna KMS Metastore Host Health Test

#### Description

When computing the overall Navigator Luna KMS Metastore health, consider the host's health.

#### Template Name

hsmkp\_metastore\_luna\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Navigator Luna KMS Metastore Process Status

This Navigator Luna KMS Metastore health test checks that the Cloudera Manager Agent on the Navigator Luna KMS Metastore host is heart beating correctly and that the process associated with the Navigator Luna KMS Metastore role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Navigator Luna KMS Metastore process, a lack of connectivity to the Cloudera Manager Agent on the Navigator Luna KMS Metastore host, or a problem with the Cloudera Manager Agent. This test can fail either because the Navigator Luna KMS Metastore has crashed or because the Navigator Luna KMS Metastore will not start or stop in a timely fashion. Check the Navigator Luna KMS Metastore logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Navigator Luna KMS Metastore host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Navigator Luna KMS Metastore host, or look in the Cloudera Manager Agent logs on the Navigator Luna KMS Metastore host for more details. This test can be enabled or disabled using the Navigator Luna KMS Metastore Process Health Test Navigator Luna KMS Metastore monitoring setting.

Short Name: Process Status

### Navigator Luna KMS Metastore Process Health Test

#### Description

Enables the health test that the Navigator Luna KMS Metastore's process state is consistent with the role configuration

#### Template Name

hsmkp\_metastore\_luna\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Navigator Luna KMS Metastore Swap Memory Usage

This Navigator Luna KMS Metastore health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Navigator Luna KMS Metastore Swap Memory Usage Rate Beta

This Navigator Luna KMS Metastore health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Navigator Luna KMS Metastore Unexpected Exits

This Navigator Luna KMS Metastore health test checks that the Navigator Luna KMS Metastore has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Navigator Luna KMS Metastore monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**Navigator Luna KMS Proxy Health Tests****Navigator Luna KMS Proxy Audit Pipeline Test**

This Navigator Luna KMS Proxy health test checks that the Auditing for the Navigator Luna KMS Proxy role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Navigator Luna KMS Proxy process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Navigator Luna KMS Proxy host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Navigator Luna KMS Proxy monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**Navigator Luna KMS Proxy File Descriptors**

This Navigator Luna KMS Proxy health test checks that the number of file descriptors used does not rise above some percentage of the Navigator Luna KMS Proxy file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Navigator Luna KMS Proxy monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`hsmkp_luna_fd_thresholds`

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Navigator Luna KMS Proxy Host Health**

This Navigator Luna KMS Proxy health test factors in the health of the host upon which the Navigator Luna KMS Proxy is running. A failure of this test means that the host running the Navigator Luna KMS Proxy is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Navigator Luna KMS Proxy Host Health Test Navigator Luna KMS Proxy monitoring setting.

Short Name: Host Health



### Navigator Luna KMS Proxy Host Health Test

#### Description

When computing the overall Navigator Luna KMS Proxy health, consider the host's health.

#### Template Name

hsmkp\_luna\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Navigator Luna KMS Proxy Log Directory Free Space

This Navigator Luna KMS Proxy health test checks that the filesystem containing the log directory of this Navigator Luna KMS Proxy has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Navigator Luna KMS Proxy monitoring settings.

Short Name: Log Directory Free Space

#### Log Directory Free Space Monitoring Absolute Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

##### Template Name

log\_directory\_free\_space\_absolute\_thresholds

##### Default Value

critical:5.36870912E9, warning:1.073741824E10

##### Unit(s)

BYTES

#### Log Directory Free Space Monitoring Percentage Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

##### Template Name

log\_directory\_free\_space\_percentage\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

PERCENT

### Navigator Luna KMS Proxy Process Status

This Navigator Luna KMS Proxy health test checks that the Cloudera Manager Agent on the Navigator Luna KMS Proxy host is heart beating correctly and that the process associated with the Navigator Luna KMS Proxy role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Navigator Luna KMS Proxy process, a lack of connectivity to the Cloudera Manager Agent on the Navigator Luna KMS Proxy host, or a problem with the Cloudera Manager Agent. This test can fail either because the Navigator Luna KMS Proxy has crashed or because the Navigator Luna KMS Proxy will not start or stop in a timely fashion. Check the

Navigator Luna KMS Proxy logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Navigator Luna KMS Proxy host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Navigator Luna KMS Proxy host, or look in the Cloudera Manager Agent logs on the Navigator Luna KMS Proxy host for more details. This test can be enabled or disabled using the Navigator Luna KMS Proxy Process Health Test Navigator Luna KMS Proxy monitoring setting.

Short Name: Process Status

### Navigator Luna KMS Proxy Process Health Test

#### Description

Enables the health test that the Navigator Luna KMS Proxy's process state is consistent with the role configuration

#### Template Name

`hsmkp_luna_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Navigator Luna KMS Proxy Swap Memory Usage

This Navigator Luna KMS Proxy health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Navigator Luna KMS Proxy Swap Memory Usage Rate Beta

This Navigator Luna KMS Proxy health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**Navigator Luna KMS Proxy Unexpected Exits**

This Navigator Luna KMS Proxy health test checks that the Navigator Luna KMS Proxy has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Navigator Luna KMS Proxy monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

```
unexpected_exits_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Navigator Metadata Server Health Tests

### Navigator Metadata Server Audit Log Directory Free Space

This is a Navigator Metadata Server health test that checks that the filesystem containing the Audit Log Directory of this Navigator Metadata Server has sufficient free space. See the Audit Log Directory description on the Navigator Metadata Server configuration page for more information on this directory type. This test can be configured using the Audit Log Directory Free Space Monitoring Absolute Thresholds and Audit Log Directory Free Space Monitoring Percentage Thresholds Navigator Metadata Server monitoring settings.

Short Name: Audit Log Directory Free Space

#### Audit Log Directory Free Space Monitoring Absolute Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Audit Log Directory.

##### Template Name

`navigatormetaserver_audit_event_log_directory_free_space_absolute_thresholds`

##### Default Value

critical:5.36870912E9, warning:1.073741824E10

##### Unit(s)

BYTES

#### Audit Log Directory Free Space Monitoring Percentage Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Audit Log Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Audit Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

##### Template Name

`navigatormetaserver_audit_event_log_directory_free_space_percentage_thresholds`

##### Default Value

critical:never, warning:never

##### Unit(s)

PERCENT

### Navigator Metadata Server Audit Pipeline Test

This Navigator Metadata Server health test checks that the Auditing for the Navigator Metadata Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Navigator Metadata Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Navigator Metadata Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Navigator Metadata Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Navigator Metadata Server File Descriptors**

This Navigator Metadata Server health test checks that the number of file descriptors used does not rise above some percentage of the Navigator Metadata Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Navigator Metadata Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

navigatormetaserver\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Navigator Metadata Server Heap Dump Directory Free Space

This Navigator Metadata Server health test checks that the filesystem containing the heap dump directory of this Navigator Metadata Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Navigator Metadata Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Navigator Metadata Server Host Health

This Navigator Metadata Server health test factors in the health of the host upon which the Navigator Metadata Server is running. A failure of this test means that the host running the Navigator Metadata Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Navigator Metadata Server Host Health Test Navigator Metadata Server monitoring setting.

Short Name: Host Health

### Navigator Metadata Server Host Health Test

#### Description

When computing the overall Navigator Metadata Server health, consider the host's health.

#### Template Name

navigatormetaserver\_host\_health\_enabled

#### Default Value

true

**Unit(s)**

no unit

**Navigator Metadata Server Log Directory Free Space**

This Navigator Metadata Server health test checks that the filesystem containing the log directory of this Navigator Metadata Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Navigator Metadata Server monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Navigator Metadata Server Navigator Metadata Server Storage Dir Free Space**

This is a Navigator Metadata Server health test that checks that the filesystem containing the Navigator Metadata Server Storage Dir of this Navigator Metadata Server has sufficient free space. See the Navigator Metadata Server Storage Dir description on the Navigator Metadata Server configuration page for more information on this directory type. This test can be configured using the Navigator Metadata Server Storage Dir Free Space Monitoring Absolute Thresholds and Navigator Metadata Server Storage Dir Free Space Monitoring Percentage Thresholds Navigator Metadata Server monitoring settings.

Short Name: Navigator Metadata Server Storage Dir Free Space

**Navigator Metadata Server Storage Dir Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Navigator Metadata Server Storage Dir.

**Template Name**

```

navigatormetaserver_data_directory_free_space_absolute_thresholds

```

**Default Value**

```

critical:5.36870912E9, warning:1.073741824E10

```

**Unit(s)**

```

BYTES

```

**Navigator Metadata Server Storage Dir Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Navigator Metadata Server Storage Dir. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Navigator Metadata Server Storage Dir Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

```

navigatormetaserver_data_directory_free_space_percentage_thresholds

```

**Default Value**

```

critical:never, warning:never

```

**Unit(s)**

```

PERCENT

```

**Navigator Metadata Server Process Status**

This Navigator Metadata Server health test checks that the Cloudera Manager Agent on the Navigator Metadata Server host is heart beating correctly and that the process associated with the Navigator Metadata Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Navigator Metadata Server process, a lack of connectivity to the Cloudera Manager Agent on the Navigator Metadata Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Navigator Metadata Server has crashed or because the Navigator Metadata Server will not start or stop in a timely fashion. Check the Navigator Metadata Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Navigator Metadata Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Navigator Metadata Server host, or look in the Cloudera Manager Agent logs on the Navigator Metadata Server host for more details. This test can be enabled or disabled using the Navigator Metadata Server Process Health Test Navigator Metadata Server monitoring setting.

Short Name: Process Status

**Navigator Metadata Server Process Health Test****Description**

Enables the health test that the Navigator Metadata Server's process state is consistent with the role configuration

**Template Name**

```

navigatormetaserver_scm_health_enabled

```

**Default Value**

```

true

```

**Unit(s)**

```

no unit

```

**Navigator Metadata Server Solr Element Count Threshold Test**

This alert indicates when the document count in the Navigator Elements Solr core is reaching Solr's maximum limit. Typically, the maximum number of documents in a Solr core is around 2 billion. When the document count



reaches the critical threshold, Navigator Metadata Server will stop working. The warning threshold is set to give administrators time to reduce the volume of documents before Navigator can no longer function. Consider changing these thresholds if you want to give more time between when the alerts are triggered and when Navigator Metadata Server stops working. To reduce the number of documents, make sure Navigator purge is running regularly. For more information, see [Troubleshooting Cloudera Navigator Metadata Server](#)

Short Name: Solr Element Count Threshold Test

### Solr Element Count Threshold

#### Description

Threshold for throwing alert when the Solr Element Count reaches

#### Template Name

`navigatormetasever_solr_element_count_threshold`

#### Default Value

critical:1.0E9, warning:5.0E8

#### Unit(s)

no unit

## Navigator Metadata Server Solr Relation Count Threshold Test

This alert indicates when the document count in the Navigator Relations Solr core is reaching Solrs maximum limit. Typically, the maximum number of documents in a Solr core is around 2 billion. When the document count reaches the critical threshold, Navigator Metadata Server will stop working. The warning threshold is set to give administrators time to reduce the volume of documents before Navigator can no longer function. Consider changing these thresholds if you want to give more time between when the alerts are triggered and when Navigator Metadata Server stops working. To reduce the number of documents, make sure Navigator purge is running regularly. For more information, see [Troubleshooting Cloudera Navigator Metadata Server](#)

Short Name: Solr Relation Count Threshold Test

### Solr Relation Count Threshold

#### Description

Threshold for throwing alert when the Solr Relation Count reaches

#### Template Name

`navigatormetasever_solr_relation_count_threshold`

#### Default Value

critical:1.0E9, warning:5.0E8

#### Unit(s)

no unit

## Navigator Metadata Server Swap Memory Usage

This Navigator Metadata Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Navigator Metadata Server Swap Memory Usage Rate Beta

This Navigator Metadata Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

## Navigator Metadata Server Unexpected Exits

This Navigator Metadata Server health test checks that the Navigator Metadata Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Navigator Metadata Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Navigator Thales KMS Metastore Health Tests

### Navigator Thales KMS Metastore Audit Pipeline Test

This Navigator Thales KMS Metastore health test checks that the Auditing for the Navigator Thales KMS Metastore role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Navigator Thales KMS Metastore process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Navigator Thales KMS Metastore host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Navigator Thales KMS Metastore monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**Navigator Thales KMS Metastore File Descriptors**

This Navigator Thales KMS Metastore health test checks that the number of file descriptors used does not rise above some percentage of the Navigator Thales KMS Metastore file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Navigator Thales KMS Metastore monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`hsmkp_metastore_thales_fd_thresholds`

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Navigator Thales KMS Metastore Host Health**

This Navigator Thales KMS Metastore health test factors in the health of the host upon which the Navigator Thales KMS Metastore is running. A failure of this test means that the host running the Navigator Thales KMS Metastore is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Navigator Thales KMS Metastore Host Health Test Navigator Thales KMS Metastore monitoring setting.

Short Name: Host Health

### Navigator Thales KMS Metastore Host Health Test

#### Description

When computing the overall Navigator Thales KMS Metastore health, consider the host's health.

#### Template Name

hsmkp\_metastore\_thales\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Navigator Thales KMS Metastore Process Status

This Navigator Thales KMS Metastore health test checks that the Cloudera Manager Agent on the Navigator Thales KMS Metastore host is heart beating correctly and that the process associated with the Navigator Thales KMS Metastore role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Navigator Thales KMS Metastore process, a lack of connectivity to the Cloudera Manager Agent on the Navigator Thales KMS Metastore host, or a problem with the Cloudera Manager Agent. This test can fail either because the Navigator Thales KMS Metastore has crashed or because the Navigator Thales KMS Metastore will not start or stop in a timely fashion. Check the Navigator Thales KMS Metastore logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Navigator Thales KMS Metastore host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Navigator Thales KMS Metastore host, or look in the Cloudera Manager Agent logs on the Navigator Thales KMS Metastore host for more details. This test can be enabled or disabled using the Navigator Thales KMS Metastore Process Health Test Navigator Thales KMS Metastore monitoring setting.

Short Name: Process Status

### Navigator Thales KMS Metastore Process Health Test

#### Description

Enables the health test that the Navigator Thales KMS Metastore's process state is consistent with the role configuration

#### Template Name

hsmkp\_metastore\_thales\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Navigator Thales KMS Metastore Swap Memory Usage

This Navigator Thales KMS Metastore health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Navigator Thales KMS Metastore Swap Memory Usage Rate Beta

This Navigator Thales KMS Metastore health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

## Navigator Thales KMS Metastore Unexpected Exits

This Navigator Thales KMS Metastore health test checks that the Navigator Thales KMS Metastore has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Navigator Thales KMS Metastore monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Navigator Thales KMS Proxy Health Tests

### Navigator Thales KMS Proxy Audit Pipeline Test

This Navigator Thales KMS Proxy health test checks that the Auditing for the Navigator Thales KMS Proxy role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Navigator Thales KMS Proxy process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Navigator Thales KMS Proxy host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Navigator Thales KMS Proxy monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**Navigator Thales KMS Proxy File Descriptors**

This Navigator Thales KMS Proxy health test checks that the number of file descriptors used does not rise above some percentage of the Navigator Thales KMS Proxy file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Navigator Thales KMS Proxy monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`hsmkp_thales_fd_thresholds`

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Navigator Thales KMS Proxy Host Health**

This Navigator Thales KMS Proxy health test factors in the health of the host upon which the Navigator Thales KMS Proxy is running. A failure of this test means that the host running the Navigator Thales KMS Proxy is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Navigator Thales KMS Proxy Host Health Test Navigator Thales KMS Proxy monitoring setting.

Short Name: Host Health



### Navigator Thales KMS Proxy Host Health Test

#### Description

When computing the overall Navigator Thales KMS Proxy health, consider the host's health.

#### Template Name

hsmkp\_thales\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Navigator Thales KMS Proxy Log Directory Free Space

This Navigator Thales KMS Proxy health test checks that the filesystem containing the log directory of this Navigator Thales KMS Proxy has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Navigator Thales KMS Proxy monitoring settings.

Short Name: Log Directory Free Space

#### Log Directory Free Space Monitoring Absolute Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

##### Template Name

log\_directory\_free\_space\_absolute\_thresholds

##### Default Value

critical:5.36870912E9, warning:1.073741824E10

##### Unit(s)

BYTES

#### Log Directory Free Space Monitoring Percentage Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

##### Template Name

log\_directory\_free\_space\_percentage\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

PERCENT

### Navigator Thales KMS Proxy Process Status

This Navigator Thales KMS Proxy health test checks that the Cloudera Manager Agent on the Navigator Thales KMS Proxy host is heart beating correctly and that the process associated with the Navigator Thales KMS Proxy role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Navigator Thales KMS Proxy process, a lack of connectivity to the Cloudera Manager Agent on the Navigator Thales KMS Proxy host, or a problem with the Cloudera Manager Agent. This test can fail either because the Navigator Thales KMS Proxy has crashed or because the Navigator Thales KMS Proxy will not start or stop in a timely fashion. Check

the Navigator Thales KMS Proxy logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Navigator Thales KMS Proxy host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Navigator Thales KMS Proxy host, or look in the Cloudera Manager Agent logs on the Navigator Thales KMS Proxy host for more details. This test can be enabled or disabled using the Navigator Thales KMS Proxy Process Health Test Navigator Thales KMS Proxy monitoring setting.

Short Name: Process Status

### Navigator Thales KMS Proxy Process Health Test

#### Description

Enables the health test that the Navigator Thales KMS Proxy's process state is consistent with the role configuration

#### Template Name

`hsmkp_thales_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Navigator Thales KMS Proxy Swap Memory Usage

This Navigator Thales KMS Proxy health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Navigator Thales KMS Proxy Swap Memory Usage Rate Beta

This Navigator Thales KMS Proxy health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**Navigator Thales KMS Proxy Unexpected Exits**

This Navigator Thales KMS Proxy health test checks that the Navigator Thales KMS Proxy has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Navigator Thales KMS Proxy monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

```
unexpected_exits_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## NodeManager Health Tests

### NodeManager Audit Pipeline Test

This NodeManager health test checks that the Auditing for the NodeManager role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of NodeManager process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the NodeManager host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check NodeManager monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## NodeManager File Descriptors

This NodeManager health test checks that the number of file descriptors used does not rise above some percentage of the NodeManager file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds NodeManager monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

nodemanager\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## NodeManager GC Duration

This NodeManager health test checks that the NodeManager is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the NodeManager. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period NodeManager monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

nodemanager\_gc\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

nodemanager\_gc\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

## NodeManager Heap Dump Directory Free Space

This NodeManager health test checks that the filesystem containing the heap dump directory of this NodeManager has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds NodeManager monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## NodeManager Host Health

This NodeManager health test factors in the health of the host upon which the NodeManager is running. A failure of this test means that the host running the NodeManager is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the NodeManager Host Health Test NodeManager monitoring setting.

Short Name: Host Health

### NodeManager Host Health Test

#### Description

When computing the overall NodeManager health, consider the host's health.

#### Template Name

nodemanager\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## NodeManager Log Directory Free Space

This NodeManager health test checks that the filesystem containing the log directory of this NodeManager has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds NodeManager monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## NodeManager NodeManager Container Log Directories Free Space

This is a NodeManager health test that checks that the filesystem containing the NodeManager Container Log Directories of this NodeManager has sufficient free space. See the NodeManager Container Log Directories description on the NodeManager configuration page for more information on this directory type. This test can be configured using the NodeManager Container Log Directories Free Space Monitoring Absolute Thresholds and NodeManager Container Log Directories Free Space Monitoring Percentage Thresholds NodeManager monitoring settings.

Short Name: NodeManager Container Log Directories Free Space

### NodeManager Container Log Directories Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's NodeManager Container Log Directories.

#### Template Name

nodemanager\_log\_directories\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**NodeManager Container Log Directories Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's NodeManager Container Log Directories. Specified as a percentage of the capacity on that filesystem. This setting is not used if a NodeManager Container Log Directories Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

nodemanager\_log\_directories\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**NodeManager NodeManager Health Checker**

This is a NodeManager health test that checks whether the ResourceManager considers the NodeManager healthy. A failure of this health test indicates that the NodeManager disk health checker or a health check script, if one is configured, reported an unhealthy condition. The NodeManager health report may include more details about the failure. Look in the NodeManager logs for more details. This test may return an unknown result if the Service Monitor is not able to communicate with the ResourceManager web server. Check the status of the ResourceManager web server and the Service Monitor logs if this test is returning an unknown result. This test can be enabled or disabled using the NodeManager Health Checker Health Check NodeManager monitoring setting. The NodeManager Connectivity Tolerance at Startup Node Manager monitoring setting and the Health Test Startup Tolerance ResourceManager monitor setting can be used to control the test's tolerance windows around NodeManager and ResourceManager restarts, respectively. The NodeManager disk health checker configuration can be configured using Disk Health Checker Minimum Health Disks Fraction, Disk Health Checker Minimum Health Disk Space, and Dish Health Checker Max Disk Utilization Percent.

Short Name: NodeManager Health Checker

**Dish Health Checker Max Disk Utilization Percent****Description**

The maximum percentage of disk space utilization allowed after which a disk is marked as bad. Values can range from 0.0 to 100.0. If the value is greater than or equal to 100, the NodeManager will check for full disk. This applies to local directories and log directories.

**Template Name**

yarn\_nodemanager\_disk\_health\_checker\_max\_disk\_utilization\_per\_disk\_percentage

**Default Value**

CDH=[[CDH 5.2.0..CDH 8.0.0)=90.0]

**Unit(s)**

PERCENT

**Disk Health Checker Minimum Health Disk Space****Description**

The minimum space that must be available on a disk for it to be used. This applies to local directories and log directories.

**Template Name**



```
yarn_nodemanager_disk_health_checker_min_free_space_per_disk_mb
```

**Default Value**

```
CDH=[[CDH 5.2.0..CDH 8.0.0)=0]
```

**Unit(s)**

```
MEGABYTES
```

**Disk Health Checker Minimum Health Disks Fraction****Description**

The minimum fraction of number of disks to be healthy for the NodeManager to launch new containers. This correspond to both local directories and log directories; that is, if there are fewer healthy local directories (or log directories) available, then new containers will not be launched on this node.

**Template Name**

```
yarn_nodemanager_disk_health_checker_min_healthy_disks
```

**Default Value**

```
0.25
```

**Unit(s)**

```
no unit
```

**Health Test Startup Tolerance****Description**

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

**Template Name**

```
resourcemanager_startup_tolerance_minutes
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**NodeManager Connectivity Tolerance at Startup****Description**

The amount of time to wait for the NodeManager to fully start up and connect to the ResourceManager before enforcing the connectivity check.

**Template Name**

```
nodemanager_connectivity_tolerance_seconds
```

**Default Value**

```
180
```

**Unit(s)**

```
SECONDS
```

**NodeManager Health Checker Health Check****Description**

Enables the health check that verifies the NodeManager is seen as healthy by the ResourceManager.

**Template Name**

```
nodemanager_health_checker_health_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## NodeManager NodeManager Local Directories Free Space

This is a NodeManager health test that checks that the filesystem containing the NodeManager Local Directories of this NodeManager has sufficient free space. See the NodeManager Local Directories description on the NodeManager configuration page for more information on this directory type. This test can be configured using the NodeManager Local Directories Free Space Monitoring Absolute Thresholds and NodeManager Local Directories Free Space Monitoring Percentage Thresholds NodeManager monitoring settings.

Short Name: NodeManager Local Directories Free Space

### NodeManager Local Directories Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's NodeManager Local Directories.

**Template Name**

nodemanager\_local\_data\_directories\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### NodeManager Local Directories Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's NodeManager Local Directories. Specified as a percentage of the capacity on that filesystem. This setting is not used if a NodeManager Local Directories Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

nodemanager\_local\_data\_directories\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## NodeManager NodeManager Recovery Directory Free Space

This is a NodeManager health test that checks that the filesystem containing the NodeManager Recovery Directory of this NodeManager has sufficient free space. See the NodeManager Recovery Directory description on the NodeManager configuration page for more information on this directory type. This test can be configured using the NodeManager Recovery Directory Free Space Monitoring Absolute Thresholds and NodeManager Recovery Directory Free Space Monitoring Percentage Thresholds NodeManager monitoring settings.

Short Name: NodeManager Recovery Directory Free Space

### NodeManager Recovery Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's NodeManager Recovery Directory.

**Template Name**

nodemanager\_recovery\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**NodeManager Recovery Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's NodeManager Recovery Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a NodeManager Recovery Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

nodemanager\_recovery\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**NodeManager Process Status**

This NodeManager health test checks that the Cloudera Manager Agent on the NodeManager host is heart beating correctly and that the process associated with the NodeManager role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the NodeManager process, a lack of connectivity to the Cloudera Manager Agent on the NodeManager host, or a problem with the Cloudera Manager Agent. This test can fail either because the NodeManager has crashed or because the NodeManager will not start or stop in a timely fashion. Check the NodeManager logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the NodeManager host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the NodeManager host, or look in the Cloudera Manager Agent logs on the NodeManager host for more details. This test can be enabled or disabled using the NodeManager Process Health Test NodeManager monitoring setting.

Short Name: Process Status

**NodeManager Process Health Test****Description**

Enables the health test that the NodeManager's process state is consistent with the role configuration

**Template Name**

nodemanager\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**NodeManager ResourceManager Connectivity**

This is a NodeManager health test that checks whether the ResourceManager considers the NodeManager alive. A failure of this health test may indicate that the NodeManager is having trouble communicating with the ResourceManager. Look in the NodeManager logs for more details. This test may return an unknown result if the Service Monitor is not able to communicate with the ResourceManager web server. Check the status of the ResourceManager web server and the Service Monitor logs if this test is returning an unknown result. This test can be enabled or disabled using the NodeManager Connectivity Health Check NodeManager monitoring setting. The NodeManager Connectivity Tolerance at Startup NodeManager monitoring setting and the Health Test Startup Tolerance ResourceManager monitoring setting can be used to control the test's tolerance windows around NodeManager and ResourceManager restarts respectively.

Short Name: ResourceManager Connectivity

### Health Test Startup Tolerance

#### Description

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

#### Template Name

resourcemanager\_startup\_tolerance\_minutes

#### Default Value

5

#### Unit(s)

MINUTES

### NodeManager Connectivity Health Check

#### Description

Enables the health check that verifies the NodeManager is connected to the ResourceManager.

#### Template Name

nodemanager\_connectivity\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### NodeManager Connectivity Tolerance at Startup

#### Description

The amount of time to wait for the NodeManager to fully start up and connect to the ResourceManager before enforcing the connectivity check.

#### Template Name

nodemanager\_connectivity\_tolerance\_seconds

#### Default Value

180

#### Unit(s)

SECONDS

### NodeManager Swap Memory Usage

This NodeManager health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### NodeManager Swap Memory Usage Rate Beta

This NodeManager health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

### NodeManager Unexpected Exits

This NodeManager health test checks that the NodeManager has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits

were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period NodeManager monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## NodeManager Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the NodeManager, a misconfiguration of the NodeManager, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the NodeManager for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the NodeManager's web server are failing or timing out. If the test's failure message indicates an unexpected response, the NodeManager's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection NodeManager monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

nodemanager\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

nodemanager\_web\_metric\_collection\_thresholds

**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## Omid Health Tests

### Omid tso server Health

This is a Omid service-level health test that checks that enough of the Omid tso servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Omid tso servers falls below a warning threshold, expressed as a percentage of the total number of Omid tso servers. The test returns "Bad" health if the number of healthy and "Concerning" Omid tso servers falls below a critical threshold, expressed as a percentage of the total number of Omid tso servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Omid tso servers, this test would return "Good" health if 95 or more Omid tso servers have good health. This test would return "Concerning" health if at least 90 Omid tso servers have either "Good" or "Concerning" health. If more than 10 Omid tso servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Omid tso servers. Check the status of the individual Omid tso servers for more information. This test can be configured using the Omid Omid service-wide monitoring setting.

Short Name: Omid tso server Health

**Healthy Omid tso server Monitoring Thresholds****Description**

The health test thresholds of the overall Omid tso server health. The check returns "Concerning" health if the percentage of "Healthy" Omid tso servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Omid tso servers falls below the critical threshold.

**Template Name**

OMID\_OMID\_TSO\_healthy\_thresholds

**Default Value**

critical:90.0, warning:99.0

**Unit(s)**

PERCENT

## Omid tso server Health Tests

### Omid tso server Audit Pipeline Test

This Omid tso server health test checks that the Auditing for the Omid tso server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Omid tso server

process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Omid tso server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Omid tso server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Omid tso server File Descriptors

This Omid tso server health test checks that the number of file descriptors used does not rise above some percentage of the Omid tso server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Omid tso server monitoring setting.

Short Name: File Descriptors



### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

omid\_tso\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Omid tso server Host Health

This Omid tso server health test factors in the health of the host upon which the Omid tso server is running. A failure of this test means that the host running the Omid tso server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Omid tso server Host Health Test Omid tso server monitoring setting.

Short Name: Host Health

### Omid tso server Host Health Test

#### Description

When computing the overall Omid tso server health, consider the host's health.

#### Template Name

omid\_tso\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Omid tso server Log Directory Free Space

This Omid tso server health test checks that the filesystem containing the log directory of this Omid tso server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Omid tso server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Omid tso server Process Status

This Omid tso server health test checks that the Cloudera Manager Agent on the Omid tso server host is heart beating correctly and that the process associated with the Omid tso server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Omid tso server process, a lack of connectivity to the Cloudera Manager Agent on the Omid tso server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Omid tso server has crashed or because the Omid tso server will not start or stop in a timely fashion. Check the Omid tso server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Omid tso server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Omid tso server host, or look in the Cloudera Manager Agent logs on the Omid tso server host for more details. This test can be enabled or disabled using the Omid tso server Process Health Test Omid tso server monitoring setting.

Short Name: Process Status

### Omid tso server Process Health Test

#### Description

Enables the health test that the Omid tso server's process state is consistent with the role configuration

#### Template Name

omid\_tso\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Omid tso server Swap Memory Usage

This Omid tso server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Omid tso server Swap Memory Usage Rate Beta

This Omid tso server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

## Omid tso server Unexpected Exits

This Omid tso server health test checks that the Omid tso server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Omid tso server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Oozie Health Tests

### Oozie Server Health

This is a Oozie service-level health test that checks that enough of the Oozie Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Oozie Servers falls below a warning threshold, expressed as a percentage of the total number of Oozie Servers. The test returns "Bad" health if the number of healthy and "Concerning" Oozie Servers falls below a critical threshold, expressed as a percentage of the total number of Oozie Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Oozie Servers, this test would return "Good" health if 95 or more Oozie Servers have good health. This test would return "Concerning" health if at least 90 Oozie Servers have either "Good" or "Concerning" health. If more than 10 Oozie Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Oozie Servers. Check the status of the individual Oozie Servers for more information. This test can be configured using the Oozie Oozie service-wide monitoring setting.

Short Name: Oozie Server Health

**Healthy Oozie Server Monitoring Thresholds****Description**

The health test thresholds of the overall Oozie Server health. The check returns "Concerning" health if the percentage of "Healthy" Oozie Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Oozie Servers falls below the critical threshold.

**Template Name**

oozie\_servers\_healthy\_thresholds

**Default Value**

critical:51.0, warning:99.0

**Unit(s)**

PERCENT

## Oozie Server Health Tests

### Oozie Server Audit Pipeline Test

This Oozie Server health test checks that the Auditing for the Oozie Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Oozie Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Oozie Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Oozie Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

### Oozie Server Callable Queue Size

This is an Oozie Server health test that checks that a moving average of the size of the Oozie Server's callable queue does not exceed some percentage of the configured maximum size for the queue. The callable queue contains tasks (e.g., StartCommand task, ActionCommand task) for asynchronous execution. When the queue is full the callable queue service stops queuing tasks. This may cause running jobs and submissions of new jobs to fail. A failure of this health test indicates a high load on the Oozie Server. Make sure the Oozie server has enough heap and is not running out of memory. You can also increase the number of threads handling the callable queue items by changing Number Threads For Executing Callables and the max size of the callable queue by changing Maximum Callable Queue Size. This test can be configured using the Oozie Server Callable Queue Monitoring Threshold and Oozie Server Callable Queue Monitoring Period Oozie Server monitoring settings.

Short Name: Callable Queue Size

### Maximum Callable Queue Size

#### Description

Maximum callable queue size

#### Template Name

oozie\_service\_callablequeueservice\_queue\_size

#### Default Value

10000

#### Unit(s)

no unit

### Number Threads For Executing Callables

#### Description

Number of threads used for executing callables

#### Template Name

oozie\_service\_callablequeueservice\_threads

#### Default Value

50

#### Unit(s)

no unit

### Oozie Server Callable Queue Monitoring Period

#### Description

The period over which to compute the moving average of the callable queue size.

#### Template Name

oozie\_server\_callable\_queue\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Oozie Server Callable Queue Monitoring Threshold

#### Description

The health test thresholds of the weighted average size of the Oozie Server callable queue over a recent period. See also Oozie Server Callable Queue Monitoring Period.

#### Template Name

oozie\_server\_callable\_queue\_threshold

**Default Value**

critical:95.0, warning:80.0

**Unit(s)**

PERCENT

## Oozie Server File Descriptors

This Oozie Server health test checks that the number of file descriptors used does not rise above some percentage of the Oozie Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Oozie Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

oozie\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Oozie Server Heap Dump Directory Free Space

This Oozie Server health test checks that the filesystem containing the heap dump directory of this Oozie Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Oozie Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Oozie Server Host Health

This Oozie Server health test factors in the health of the host upon which the Oozie Server is running. A failure of this test means that the host running the Oozie Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Oozie Server Host Health Test Oozie Server monitoring setting.

Short Name: Host Health

### Oozie Server Host Health Test

**Description**

When computing the overall Oozie Server health, consider the host's health.

**Template Name**

oozie\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Oozie Server Log Directory Free Space

This Oozie Server health test checks that the filesystem containing the log directory of this Oozie Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Oozie Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**



```
log_directory_free_space_percentage_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
PERCENT
```

## Oozie Server Oozie Server Shared Library Check

This is an Oozie Server health test that verifies that the installed shared library is correct. If the shared library is missing, is out-of-sync with the Oozie build version, or does not match the Oozie MapReduce service dependency, the check will return "Bad" health. Follow the instructions in the Cloudera Manager documentation to install or upgrade it. For other failures of this health test, consult the Cloudera Manager Service Monitor logs. This test can be enabled or disabled using the Enable Oozie Server Shared Libraries Version Check Oozie Server monitoring setting.

Short Name: Oozie Server Shared Library Check

### Enable Oozie Server Shared Libraries Version Check

**Description**

If true, enables version check for Oozie Server and installed shared libraries.

**Template Name**

```
oozie_server_shared_lib_version_check_enabled
```

**Default Value**

```
CDH=[[CDH 5.0.0..CDH 8.0.0)=true]
```

**Unit(s)**

```
no unit
```

## Oozie Server Pause Duration

This Oozie Server health test checks that the Oozie Server threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Oozie Server that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Oozie Server is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Oozie Server logs for any pause monitor output and check garbage collection metrics exposed by the Oozie Server. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period Oozie Server monitoring settings.

Short Name: Pause Duration

### Pause Duration Monitoring Period

**Description**

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

```
oozie_server_pause_duration_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

### Pause Duration Thresholds

#### Description

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

#### Template Name

oozie\_server\_pause\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

## Oozie Server Process Status

This Oozie Server health test checks that the Cloudera Manager Agent on the Oozie Server host is heart beating correctly and that the process associated with the Oozie Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Oozie Server process, a lack of connectivity to the Cloudera Manager Agent on the Oozie Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Oozie Server has crashed or because the Oozie Server will not start or stop in a timely fashion. Check the Oozie Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Oozie Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Oozie Server host, or look in the Cloudera Manager Agent logs on the Oozie Server host for more details. This test can be enabled or disabled using the Oozie Server Process Health Test Oozie Server monitoring setting.

Short Name: Process Status

### Oozie Server Process Health Test

#### Description

Enables the health test that the Oozie Server's process state is consistent with the role configuration

#### Template Name

oozie\_server\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Oozie Server Swap Memory Usage

This Oozie Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

**Unit(s)**

BYTES

## Oozie Server Swap Memory Usage Rate Beta

This Oozie Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Oozie Server Unexpected Exits

This Oozie Server health test checks that the Oozie Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Oozie Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**`unexpected_exits_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**Oozie Server Web Server Status**

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Service Monitor, and that the Cloudera Manager Service Monitor can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Oozie Server, a misconfiguration of the Oozie Server, or a problem with the Cloudera Manager Service Monitor. Consult the Cloudera Manager Service Monitor logs and the logs of the Oozie Server for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Service Monitor's HTTP requests to the Oozie Server's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Oozie Server's web server responded to the Cloudera Manager Service Monitor's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Oozie Server monitoring setting.

Short Name: Web Server Status

**Web Metric Collection****Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**`oozie_server_web_metric_collection_enabled`**Default Value**

true

**Unit(s)**

no unit

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**`oozie_server_web_metric_collection_thresholds`**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## Ozone Health Tests

### Ozone DataNode Health

This is a Ozone service-level health test that checks that enough of the Ozone DataNodes in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ozone DataNodes falls below a warning threshold, expressed as a percentage of the total number of Ozone DataNodes. The test returns "Bad" health if the number of healthy and "Concerning" Ozone DataNodes falls below a critical threshold, expressed as a percentage of the total number of Ozone DataNodes. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ozone DataNodes, this test would return "Good" health if 95 or more Ozone DataNodes have good health. This test would return "Concerning" health if at least 90 Ozone DataNodes have either "Good" or "Concerning" health. If more than 10 Ozone DataNodes have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ozone DataNodes. Check the status of the individual Ozone DataNodes for more information. This test can be configured using the Ozone Ozone service-wide monitoring setting.

Short Name: Ozone DataNode Health

#### Healthy Ozone DataNode Monitoring Thresholds

##### Description

The health test thresholds of the overall Ozone DataNode health. The check returns "Concerning" health if the percentage of "Healthy" Ozone DataNodes falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ozone DataNodes falls below the critical threshold.

##### Template Name

OZONE\_OZONE\_DATANODE\_healthy\_thresholds

##### Default Value

critical:90.0, warning:99.0

##### Unit(s)

PERCENT

### Ozone Manager Health

This is a Ozone service-level health test that checks that enough of the Ozone Managers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ozone Managers falls below a warning threshold, expressed as a percentage of the total number of Ozone Managers. The test returns "Bad" health if the number of healthy and "Concerning" Ozone Managers falls below a critical threshold, expressed as a percentage of the total number of Ozone Managers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ozone Managers, this test would return "Good" health if 95 or more Ozone Managers have good health. This test would return "Concerning" health if at least 90 Ozone Managers have either "Good" or "Concerning" health. If more than 10 Ozone Managers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ozone Managers. Check the status of the individual Ozone Managers for more information. This test can be configured using the Ozone Ozone service-wide monitoring setting.

Short Name: Ozone Manager Health

#### Healthy Ozone Manager Monitoring Thresholds

##### Description

The health test thresholds of the overall Ozone Manager health. The check returns "Concerning" health if the percentage of "Healthy" Ozone Managers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ozone Managers falls below the critical threshold.

**Template Name**

OZONE\_OZONE\_MANAGER\_healthy\_thresholds

**Default Value**

critical:50.0, warning:75.0

**Unit(s)**

PERCENT

## Ozone Storage Container Manager Health

This is a Ozone service-level health test that checks that enough of the Storage Container Managers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Storage Container Managers falls below a warning threshold, expressed as a percentage of the total number of Storage Container Managers. The test returns "Bad" health if the number of healthy and "Concerning" Storage Container Managers falls below a critical threshold, expressed as a percentage of the total number of Storage Container Managers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Storage Container Managers, this test would return "Good" health if 95 or more Storage Container Managers have good health. This test would return "Concerning" health if at least 90 Storage Container Managers have either "Good" or "Concerning" health. If more than 10 Storage Container Managers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Storage Container Managers. Check the status of the individual Storage Container Managers for more information. This test can be configured using the Ozone Ozone service-wide monitoring setting.

Short Name: Storage Container Manager Health

### Healthy Storage Container Manager Monitoring Thresholds

**Description**

The health test thresholds of the overall Storage Container Manager health. The check returns "Concerning" health if the percentage of "Healthy" Storage Container Managers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Storage Container Managers falls below the critical threshold.

**Template Name**

OZONE\_STORAGE\_CONTAINER\_MANAGER\_healthy\_thresholds

**Default Value**

critical:50.0, warning:75.0

**Unit(s)**

PERCENT

## Ozone DataNode Health Tests

### Ozone DataNode Audit Pipeline Test

This Ozone DataNode health test checks that the Auditing for the Ozone DataNode role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ozone DataNode process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ozone DataNode host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ozone DataNode monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Ozone DataNode File Descriptors**

This Ozone DataNode health test checks that the number of file descriptors used does not rise above some percentage of the Ozone DataNode file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ozone DataNode monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

ozone\_datanode\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Ozone DataNode Host Health

This Ozone DataNode health test factors in the health of the host upon which the Ozone DataNode is running. A failure of this test means that the host running the Ozone DataNode is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ozone DataNode Host Health Test Ozone DataNode monitoring setting.

Short Name: Host Health

### Ozone DataNode Host Health Test

**Description**

When computing the overall Ozone DataNode health, consider the host's health.

**Template Name**

ozone\_datanode\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ozone DataNode Log Directory Free Space

This Ozone DataNode health test checks that the filesystem containing the log directory of this Ozone DataNode has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ozone DataNode monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never



**Unit(s)**

PERCENT

## Ozone DataNode Process Status

This Ozone DataNode health test checks that the Cloudera Manager Agent on the Ozone DataNode host is heart beating correctly and that the process associated with the Ozone DataNode role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ozone DataNode process, a lack of connectivity to the Cloudera Manager Agent on the Ozone DataNode host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ozone DataNode has crashed or because the Ozone DataNode will not start or stop in a timely fashion. Check the Ozone DataNode logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ozone DataNode host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ozone DataNode host, or look in the Cloudera Manager Agent logs on the Ozone DataNode host for more details. This test can be enabled or disabled using the Ozone DataNode Process Health Test Ozone DataNode monitoring setting.

Short Name: Process Status

### Ozone DataNode Process Health Test

**Description**

Enables the health test that the Ozone DataNode's process state is consistent with the role configuration

**Template Name**

```
ozone_datanode_scm_health_enabled
```

**Default Value**

true

**Unit(s)**

no unit

## Ozone DataNode Swap Memory Usage

This Ozone DataNode health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Ozone DataNode Swap Memory Usage Rate Beta

This Ozone DataNode health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be

configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Ozone DataNode Unexpected Exits

This Ozone DataNode health test checks that the Ozone DataNode has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ozone DataNode monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Ozone Manager Health Tests

### Ozone Manager Audit Pipeline Test

This Ozone Manager health test checks that the Auditing for the Ozone Manager role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ozone Manager process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ozone Manager host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ozone Manager monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

`mgmt_navigator_failure_window`

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ozone Manager File Descriptors

This Ozone Manager health test checks that the number of file descriptors used does not rise above some percentage of the Ozone Manager file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ozone Manager monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

ozone\_manager\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Ozone Manager Host Health

This Ozone Manager health test factors in the health of the host upon which the Ozone Manager is running. A failure of this test means that the host running the Ozone Manager is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ozone Manager Host Health Test Ozone Manager monitoring setting.

Short Name: Host Health

### Ozone Manager Host Health Test

#### Description

When computing the overall Ozone Manager health, consider the host's health.

#### Template Name

ozone\_manager\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ozone Manager Log Directory Free Space

This Ozone Manager health test checks that the filesystem containing the log directory of this Ozone Manager has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ozone Manager monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Ozone Manager Ozone Manager Upgrade Need Finalization Canary

If this canary shows unhealthy, it indicates that Ozone OM's metadata layout version is lower than the capable software layout version. This typically means Ozone Manager hasn't been finalized after an upgrade yet. Some new features won't be available unless finalized.

Short Name: Ozone Manager Upgrade Need Finalization Canary

## Ozone Manager Process Status

This Ozone Manager health test checks that the Cloudera Manager Agent on the Ozone Manager host is heart beating correctly and that the process associated with the Ozone Manager role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ozone Manager process, a lack of connectivity to the Cloudera Manager Agent on the Ozone Manager host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ozone Manager has crashed or because the Ozone Manager will not start or stop in a timely fashion. Check the Ozone Manager logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ozone Manager host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ozone Manager host, or look in the Cloudera Manager Agent logs on the Ozone Manager host for more details. This test can be enabled or disabled using the Ozone Manager Process Health Test Ozone Manager monitoring setting.

Short Name: Process Status

### Ozone Manager Process Health Test

#### Description

Enables the health test that the Ozone Manager's process state is consistent with the role configuration

#### Template Name

ozone\_manager\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Ozone Manager Swap Memory Usage

This Ozone Manager health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

#### Process Swap Memory Thresholds

##### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

##### Template Name

process\_swap\_memory\_thresholds

##### Default Value

critical:never, warning:200.0

##### Unit(s)

BYTES

### Ozone Manager Swap Memory Usage Rate Beta

This Ozone Manager health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

#### Swap Memory Usage Rate Thresholds

##### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

##### Template Name

process\_swap\_memory\_rate\_thresholds

##### Default Value

critical:never, warning:never

##### Unit(s)

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

`process_swap_memory_rate_window`

**Default Value**

5

**Unit(s)**

MINUTES

### Ozone Manager Unexpected Exits

This Ozone Manager health test checks that the Ozone Manager has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ozone Manager monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

`unexpected_exits_window`

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

`unexpected_exits_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Ozone Prometheus Health Tests

### Ozone Prometheus Audit Pipeline Test

This Ozone Prometheus health test checks that the Auditing for the Ozone Prometheus role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ozone Prometheus process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ozone Prometheus host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ozone Prometheus monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ozone Prometheus File Descriptors

This Ozone Prometheus health test checks that the number of file descriptors used does not rise above some percentage of the Ozone Prometheus file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ozone Prometheus monitoring setting.

Short Name: File Descriptors



### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

ozone\_prometheus\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Ozone Prometheus Host Health

This Ozone Prometheus health test factors in the health of the host upon which the Ozone Prometheus is running. A failure of this test means that the host running the Ozone Prometheus is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ozone Prometheus Host Health Test Ozone Prometheus monitoring setting.

Short Name: Host Health

### Ozone Prometheus Host Health Test

#### Description

When computing the overall Ozone Prometheus health, consider the host's health.

#### Template Name

ozone\_prometheus\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Ozone Prometheus Process Status

This Ozone Prometheus health test checks that the Cloudera Manager Agent on the Ozone Prometheus host is heart beating correctly and that the process associated with the Ozone Prometheus role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ozone Prometheus process, a lack of connectivity to the Cloudera Manager Agent on the Ozone Prometheus host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ozone Prometheus has crashed or because the Ozone Prometheus will not start or stop in a timely fashion. Check the Ozone Prometheus logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ozone Prometheus host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ozone Prometheus host, or look in the Cloudera Manager Agent logs on the Ozone Prometheus host for more details. This test can be enabled or disabled using the Ozone Prometheus Process Health Test Ozone Prometheus monitoring setting.

Short Name: Process Status

### Ozone Prometheus Process Health Test

#### Description

Enables the health test that the Ozone Prometheus's process state is consistent with the role configuration

#### Template Name

ozone\_prometheus\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ozone Prometheus Swap Memory Usage

This Ozone Prometheus health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Ozone Prometheus Swap Memory Usage Rate Beta

This Ozone Prometheus health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5  
**Unit(s)**  
 MINUTES

## Ozone Prometheus Unexpected Exits

This Ozone Prometheus health test checks that the Ozone Prometheus has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ozone Prometheus monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Ozone Recon Health Tests

### Ozone Recon Audit Pipeline Test

This Ozone Recon health test checks that the Auditing for the Ozone Recon role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ozone Recon process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ozone Recon host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ozone Recon monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ozone Recon File Descriptors

This Ozone Recon health test checks that the number of file descriptors used does not rise above some percentage of the Ozone Recon file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ozone Recon monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

ozone\_recon\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Ozone Recon Host Health

This Ozone Recon health test factors in the health of the host upon which the Ozone Recon is running. A failure of this test means that the host running the Ozone Recon is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ozone Recon Host Health Test Ozone Recon monitoring setting.

Short Name: Host Health

### Ozone Recon Host Health Test

**Description**

When computing the overall Ozone Recon health, consider the host's health.

**Template Name**

ozone\_recon\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ozone Recon Log Directory Free Space

This Ozone Recon health test checks that the filesystem containing the log directory of this Ozone Recon has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ozone Recon monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Ozone Recon Process Status

This Ozone Recon health test checks that the Cloudera Manager Agent on the Ozone Recon host is heart beating correctly and that the process associated with the Ozone Recon role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ozone Recon process, a lack of connectivity to the Cloudera Manager Agent on the Ozone Recon host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ozone Recon has crashed or because the Ozone Recon will not start or stop in a timely fashion. Check the Ozone Recon logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ozone Recon host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ozone Recon host, or look in the Cloudera Manager Agent logs on the Ozone Recon host for more details. This test can be enabled or disabled using the Ozone Recon Process Health Test Ozone Recon monitoring setting.

Short Name: Process Status

### Ozone Recon Process Health Test

**Description**

Enables the health test that the Ozone Recon's process state is consistent with the role configuration

**Template Name**

ozone\_recon\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ozone Recon Swap Memory Usage

This Ozone Recon health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Ozone Recon Swap Memory Usage Rate Beta

This Ozone Recon health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Ozone Recon Unexpected Exits

This Ozone Recon health test checks that the Ozone Recon has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ozone Recon monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Passive Database Health Tests

### Passive Database Audit Pipeline Test

This Passive Database health test checks that the Auditing for the Passive Database role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Passive Database process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Passive Database host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Passive Database monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

`mgmt_navigator_failure_window`

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES



### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Passive Database File Descriptors

This Passive Database health test checks that the number of file descriptors used does not rise above some percentage of the Passive Database file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Passive Database monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

db\_passive\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Passive Database Host Health

This Passive Database health test factors in the health of the host upon which the Passive Database is running. A failure of this test means that the host running the Passive Database is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Passive Database Host Health Test Passive Database monitoring setting.

Short Name: Host Health

### Passive Database Host Health Test

#### Description

When computing the overall Passive Database health, consider the host's health.

#### Template Name

db\_passive\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Passive Database Process Status

This Passive Database health test checks that the Cloudera Manager Agent on the Passive Database host is heart beating correctly and that the process associated with the Passive Database role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Passive Database process, a lack of connectivity to the Cloudera Manager Agent on the Passive Database host, or a problem with the Cloudera Manager Agent. This test can fail either because the Passive Database has crashed or because the Passive Database will not start or stop in a timely fashion. Check the Passive Database logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Passive Database host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Passive Database host, or look in the Cloudera Manager Agent logs on the Passive Database host for more details. This test can be enabled or disabled using the Passive Database Process Health Test Passive Database monitoring setting.

Short Name: Process Status

### Passive Database Process Health Test

#### Description

Enables the health test that the Passive Database's process state is consistent with the role configuration

#### Template Name

`db_passive_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Passive Database Swap Memory Usage

This Passive Database health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Passive Database Swap Memory Usage Rate Beta

This Passive Database health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

`process_swap_memory_rate_thresholds`

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

`process_swap_memory_rate_window`

**Default Value**

5

**Unit(s)**

MINUTES

## Passive Database Unexpected Exits

This Passive Database health test checks that the Passive Database has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Passive Database monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

`unexpected_exits_window`

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

## Passive Key Trustee Server Health Tests

### Passive Key Trustee Server Audit Pipeline Test

This Passive Key Trustee Server health test checks that the Auditing for the Passive Key Trustee Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Passive Key Trustee Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Passive Key Trustee Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Passive Key Trustee Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

```
mgmt_navigator_failure_window
```

**Default Value**

```
20
```

**Unit(s)**

```
MINUTES
```

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

```
mgmt_navigator_failure_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
BYTES
```

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

```
mgmt_navigator_status_check_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Passive Key Trustee Server File Descriptors

This Passive Key Trustee Server health test checks that the number of file descriptors used does not rise above some percentage of the Passive Key Trustee Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Passive Key Trustee Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

```
keytrustee_passive_server_fd_thresholds
```

**Default Value**

```
critical:70.0, warning:50.0
```

**Unit(s)**

```
PERCENT
```

## Passive Key Trustee Server Host Health

This Passive Key Trustee Server health test factors in the health of the host upon which the Passive Key Trustee Server is running. A failure of this test means that the host running the Passive Key Trustee Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Passive Key Trustee Server Host Health Test Passive Key Trustee Server monitoring setting.

Short Name: Host Health

### Passive Key Trustee Server Host Health Test

**Description**

When computing the overall Passive Key Trustee Server health, consider the host's health.

**Template Name**

```
keytrustee_passive_server_host_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Passive Key Trustee Server Log Directory Free Space

This Passive Key Trustee Server health test checks that the filesystem containing the log directory of this Passive Key Trustee Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Passive Key Trustee Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Passive Key Trustee Server Process Status

This Passive Key Trustee Server health test checks that the Cloudera Manager Agent on the Passive Key Trustee Server host is heart beating correctly and that the process associated with the Passive Key Trustee Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Passive Key Trustee Server process, a lack of connectivity to the Cloudera Manager Agent on the Passive Key Trustee Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Passive Key Trustee Server has crashed or because the Passive Key Trustee Server will not start or stop in a timely fashion. Check the Passive Key Trustee Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Passive Key Trustee Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Passive Key Trustee Server host, or look in the Cloudera Manager Agent logs on the Passive Key Trustee Server host for more details. This test can be enabled or disabled using the Passive Key Trustee Server Process Health Test Passive Key Trustee Server monitoring setting.

Short Name: Process Status

### Passive Key Trustee Server Process Health Test

#### Description

Enables the health test that the Passive Key Trustee Server's process state is consistent with the role configuration

#### Template Name

keytrustee\_passive\_server\_scm\_health\_enabled

#### Default Value

true

**Unit(s)**

no unit

## Passive Key Trustee Server Swap Memory Usage

This Passive Key Trustee Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

BYTES

## Passive Key Trustee Server Swap Memory Usage Rate Beta

This Passive Key Trustee Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

5

**Unit(s)**

## MINUTES

## Passive Key Trustee Server Unexpected Exits

This Passive Key Trustee Server health test checks that the Passive Key Trustee Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Passive Key Trustee Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Phoenix Health Tests

### Phoenix Query Server Health

This is a Phoenix service-level health test that checks that enough of the Query Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Query Servers falls below a warning threshold, expressed as a percentage of the total number of Query Servers. The test returns "Bad" health if the number of healthy and "Concerning" Query Servers falls below a critical threshold, expressed as a percentage of the total number of Query Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Query Servers, this test would return "Good" health if 95 or more Query Servers have good health. This test would return "Concerning" health if at least 90 Query Servers have either "Good" or "Concerning" health. If more than 10 Query Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Query Servers. Check the status of the individual Query Servers for more information. This test can be configured using the Phoenix Phoenix service-wide monitoring setting.

Short Name: Query Server Health



## Healthy Query Server Monitoring Thresholds

### Description

The health test thresholds of the overall Query Server health. The check returns "Concerning" health if the percentage of "Healthy" Query Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Query Servers falls below the critical threshold.

### Template Name

PHOENIX\_PHOENIX\_QUERY\_SERVER\_healthy\_thresholds

### Default Value

critical:90.0, warning:99.0

### Unit(s)

PERCENT

## Profiler Admin Agent Health Tests

### Profiler Admin Agent Audit Pipeline Test

This Profiler Admin Agent health test checks that the Auditing for the Profiler Admin Agent role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Profiler Admin Agent process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Profiler Admin Agent host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Profiler Admin Agent monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Profiler Admin Agent File Descriptors

This Profiler Admin Agent health test checks that the number of file descriptors used does not rise above some percentage of the Profiler Admin Agent file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Profiler Admin Agent monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

profiler\_admin\_agent\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Profiler Admin Agent Host Health

This Profiler Admin Agent health test factors in the health of the host upon which the Profiler Admin Agent is running. A failure of this test means that the host running the Profiler Admin Agent is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Profiler Admin Agent Host Health Test Profiler Admin Agent monitoring setting.

Short Name: Host Health

### Profiler Admin Agent Host Health Test

#### Description

When computing the overall Profiler Admin Agent health, consider the host's health.

#### Template Name

profiler\_admin\_agent\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Profiler Admin Agent Log Directory Free Space

This Profiler Admin Agent health test checks that the filesystem containing the log directory of this Profiler Admin Agent has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Profiler Admin Agent monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Profiler Admin Agent Process Status

This Profiler Admin Agent health test checks that the Cloudera Manager Agent on the Profiler Admin Agent host is heart beating correctly and that the process associated with the Profiler Admin Agent role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Profiler Admin Agent process, a lack of connectivity to the Cloudera Manager Agent on the Profiler Admin Agent host, or a problem with the Cloudera Manager Agent. This test can fail either because the Profiler Admin Agent has crashed or because the Profiler Admin Agent will not start or stop in a timely fashion. Check the Profiler Admin Agent logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Profiler Admin Agent host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Profiler Admin Agent host, or look in the Cloudera Manager Agent logs on the Profiler Admin Agent host for more details. This test can be enabled or disabled using the Profiler Admin Agent Process Health Test Profiler Admin Agent monitoring setting.

Short Name: Process Status

### Profiler Admin Agent Process Health Test

#### Description

Enables the health test that the Profiler Admin Agent's process state is consistent with the role configuration

**Template Name**

```
profiler_admin_agent_scm_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Profiler Admin Agent Swap Memory Usage

This Profiler Admin Agent health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Profiler Admin Agent Swap Memory Usage Rate Beta

This Profiler Admin Agent health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

|                      |                                 |
|----------------------|---------------------------------|
|                      | process_swap_memory_rate_window |
| <b>Default Value</b> | 5                               |
| <b>Unit(s)</b>       | MINUTES                         |

## Profiler Admin Agent Unexpected Exits

This Profiler Admin Agent health test checks that the Profiler Admin Agent has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Profiler Admin Agent monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Profiler Metrics Agent Health Tests

### Profiler Metrics Agent Audit Pipeline Test

This Profiler Metrics Agent health test checks that the Auditing for the Profiler Metrics Agent role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Profiler Metrics Agent process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Profiler Metrics Agent host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Profiler Metrics Agent monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Profiler Metrics Agent File Descriptors

This Profiler Metrics Agent health test checks that the number of file descriptors used does not rise above some percentage of the Profiler Metrics Agent file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Profiler Metrics Agent monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

profiler\_metrics\_agent\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Profiler Metrics Agent Host Health

This Profiler Metrics Agent health test factors in the health of the host upon which the Profiler Metrics Agent is running. A failure of this test means that the host running the Profiler Metrics Agent is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Profiler Metrics Agent Host Health Test Profiler Metrics Agent monitoring setting.

Short Name: Host Health

### Profiler Metrics Agent Host Health Test

**Description**

When computing the overall Profiler Metrics Agent health, consider the host's health.

**Template Name**

profiler\_metrics\_agent\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Profiler Metrics Agent Log Directory Free Space

This Profiler Metrics Agent health test checks that the filesystem containing the log directory of this Profiler Metrics Agent has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Profiler Metrics Agent monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Profiler Metrics Agent Process Status

This Profiler Metrics Agent health test checks that the Cloudera Manager Agent on the Profiler Metrics Agent host is heart beating correctly and that the process associated with the Profiler Metrics Agent role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Profiler Metrics Agent process, a lack of connectivity to the Cloudera Manager Agent on the Profiler Metrics Agent host, or a problem with the Cloudera Manager Agent. This test can fail either because the Profiler Metrics Agent has crashed or because the Profiler Metrics Agent will not start or stop in a timely fashion. Check the Profiler Metrics Agent logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Profiler Metrics Agent host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Profiler Metrics Agent host, or look in the Cloudera Manager Agent logs on the Profiler Metrics Agent host for more details. This test can be enabled or disabled using the Profiler Metrics Agent Process Health Test Profiler Metrics Agent monitoring setting.

Short Name: Process Status

### Profiler Metrics Agent Process Health Test

**Description**

Enables the health test that the Profiler Metrics Agent's process state is consistent with the role configuration

**Template Name**

profiler\_metrics\_agent\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Profiler Metrics Agent Swap Memory Usage

This Profiler Metrics Agent health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds



**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Profiler Metrics Agent Swap Memory Usage Rate Beta

This Profiler Metrics Agent health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Profiler Metrics Agent Unexpected Exits

This Profiler Metrics Agent health test checks that the Profiler Metrics Agent has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Profiler Metrics Agent monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Profiler Scheduler Agent Health Tests

### Profiler Scheduler Agent Audit Pipeline Test

This Profiler Scheduler Agent health test checks that the Auditing for the Profiler Scheduler Agent role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Profiler Scheduler Agent process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Profiler Scheduler Agent host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Profiler Scheduler Agent monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

```
mgmt_navigator_failure_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
BYTES
```

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

```
mgmt_navigator_status_check_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

**Profiler Scheduler Agent File Descriptors**

This Profiler Scheduler Agent health test checks that the number of file descriptors used does not rise above some percentage of the Profiler Scheduler Agent file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Profiler Scheduler Agent monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

```
profiler_scheduler_agent_fd_thresholds
```

**Default Value**

```
critical:70.0, warning:50.0
```

**Unit(s)**

```
PERCENT
```

**Profiler Scheduler Agent Host Health**

This Profiler Scheduler Agent health test factors in the health of the host upon which the Profiler Scheduler Agent is running. A failure of this test means that the host running the Profiler Scheduler Agent is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Profiler Scheduler Agent Host Health Test Profiler Scheduler Agent monitoring setting.

Short Name: Host Health

**Profiler Scheduler Agent Host Health Test****Description**

When computing the overall Profiler Scheduler Agent health, consider the host's health.

**Template Name**

profiler\_scheduler\_agent\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Profiler Scheduler Agent Log Directory Free Space

This Profiler Scheduler Agent health test checks that the filesystem containing the log directory of this Profiler Scheduler Agent has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Profiler Scheduler Agent monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Profiler Scheduler Agent Process Status

This Profiler Scheduler Agent health test checks that the Cloudera Manager Agent on the Profiler Scheduler Agent host is heart beating correctly and that the process associated with the Profiler Scheduler Agent role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Profiler Scheduler Agent process, a lack of connectivity to the Cloudera Manager Agent on the Profiler Scheduler Agent host, or a problem with the Cloudera Manager Agent. This test can fail either because the Profiler Scheduler Agent has crashed or because the Profiler Scheduler Agent will not start or stop in a timely fashion. Check the Profiler Scheduler Agent logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Profiler Scheduler Agent host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Profiler Scheduler Agent host, or look in the Cloudera Manager Agent logs on the Profiler

Scheduler Agent host for more details. This test can be enabled or disabled using the Profiler Scheduler Agent Process Health Test Profiler Scheduler Agent monitoring setting.

Short Name: Process Status

### Profiler Scheduler Agent Process Health Test

#### Description

Enables the health test that the Profiler Scheduler Agent's process state is consistent with the role configuration

#### Template Name

profiler\_scheduler\_agent\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Profiler Scheduler Agent Swap Memory Usage

This Profiler Scheduler Agent health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Profiler Scheduler Agent Swap Memory Usage Rate Beta

This Profiler Scheduler Agent health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Profiler Scheduler Agent Unexpected Exits**

This Profiler Scheduler Agent health test checks that the Profiler Scheduler Agent has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Profiler Scheduler Agent monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Query Processor Health Tests

### Query Processor Audit Pipeline Test

This Query Processor health test checks that the Auditing for the Query Processor role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Query Processor process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Query Processor host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Query Processor monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## Query Processor File Descriptors

This Query Processor health test checks that the number of file descriptors used does not rise above some percentage of the Query Processor file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Query Processor monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

query\_processor\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Query Processor Host Health

This Query Processor health test factors in the health of the host upon which the Query Processor is running. A failure of this test means that the host running the Query Processor is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Query Processor Host Health Test Query Processor monitoring setting.

Short Name: Host Health

### Query Processor Host Health Test

#### Description

When computing the overall Query Processor health, consider the host's health.

#### Template Name

query\_processor\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Query Processor Log Directory Free Space

This Query Processor health test checks that the filesystem containing the log directory of this Query Processor has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Query Processor monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds



**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Query Processor Process Status**

This Query Processor health test checks that the Cloudera Manager Agent on the Query Processor host is heart beating correctly and that the process associated with the Query Processor role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Query Processor process, a lack of connectivity to the Cloudera Manager Agent on the Query Processor host, or a problem with the Cloudera Manager Agent. This test can fail either because the Query Processor has crashed or because the Query Processor will not start or stop in a timely fashion. Check the Query Processor logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Query Processor host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Query Processor host, or look in the Cloudera Manager Agent logs on the Query Processor host for more details. This test can be enabled or disabled using the Query Processor Process Health Test Query Processor monitoring setting.

Short Name: Process Status

**Query Processor Process Health Test****Description**

Enables the health test that the Query Processor's process state is consistent with the role configuration

**Template Name**

query\_processor\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Query Processor Swap Memory Usage**

This Query Processor health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Query Processor Swap Memory Usage Rate Beta

This Query Processor health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Query Processor Unexpected Exits

This Query Processor health test checks that the Query Processor has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Query Processor monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Query Server Health Tests

### Query Server Audit Pipeline Test

This Query Server health test checks that the Auditing for the Query Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Query Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Query Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Query Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

## Query Server File Descriptors

This Query Server health test checks that the number of file descriptors used does not rise above some percentage of the Query Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Query Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`phoenix_query_server_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Query Server Host Health

This Query Server health test factors in the health of the host upon which the Query Server is running. A failure of this test means that the host running the Query Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Query Server Host Health Test Query Server monitoring setting.

Short Name: Host Health

### Query Server Host Health Test

#### Description

When computing the overall Query Server health, consider the host's health.

#### Template Name

phoenix\_query\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Query Server Log Directory Free Space

This Query Server health test checks that the filesystem containing the log directory of this Query Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Query Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Query Server Process Status

This Query Server health test checks that the Cloudera Manager Agent on the Query Server host is heart beating correctly and that the process associated with the Query Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Query Server process, a lack of connectivity to the Cloudera Manager Agent on the Query Server host, or a problem with the Cloudera Manager Agent. This test can fail either

because the Query Server has crashed or because the Query Server will not start or stop in a timely fashion. Check the Query Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Query Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Query Server host, or look in the Cloudera Manager Agent logs on the Query Server host for more details. This test can be enabled or disabled using the Query Server Process Health Test Query Server monitoring setting.

Short Name: Process Status

### Query Server Process Health Test

#### Description

Enables the health test that the Query Server's process state is consistent with the role configuration

#### Template Name

`phoenix_query_server_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Query Server Swap Memory Usage

This Query Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Query Server Swap Memory Usage Rate Beta

This Query Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Query Server Unexpected Exits**

This Query Server health test checks that the Query Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Query Server monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Ranger Health Tests

### Ranger Admin Health

This is a Ranger service-level health test that checks that enough of the Ranger Admins in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ranger Admins falls below a warning threshold, expressed as a percentage of the total number of Ranger Admins. The test returns "Bad" health if the number of healthy and "Concerning" Ranger Admins falls below a critical threshold, expressed as a percentage of the total number of Ranger Admins. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ranger Admins, this test would return "Good" health if 95 or more Ranger Admins have good health. This test would return "Concerning" health if at least 90 Ranger Admins have either "Good" or "Concerning" health. If more than 10 Ranger Admins have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ranger Admins. Check the status of the individual Ranger Admins for more information. This test can be configured using the Ranger Ranger service-wide monitoring setting.

Short Name: Ranger Admin Health

#### Healthy Ranger Admin Monitoring Thresholds

##### Description

The health test thresholds of the overall Ranger Admin health. The check returns "Concerning" health if the percentage of "Healthy" Ranger Admins falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ranger Admins falls below the critical threshold.

##### Template Name

RANGER\_RANGER\_ADMIN\_healthy\_thresholds

##### Default Value

critical:49.0, warning:99.0

##### Unit(s)

PERCENT

### Ranger Tagsync Health

This Ranger service-level health test checks for the presence of a running, healthy Ranger Tagsync. The test returns "Bad" health if the service is running and the Ranger Tagsync is not running. In all other cases it returns the health of the Ranger Tagsync. A failure of this health test indicates a stopped or unhealthy Ranger Tagsync. Check the status of the Ranger Tagsync for more information. This test can be enabled or disabled using the Ranger Tagsync Role Health Test Ranger Tagsync service-wide monitoring setting.

Short Name: Ranger Tagsync Health

#### Ranger Tagsync Role Health Test

##### Description

When computing the overall RANGER health, consider Ranger Tagsync's health

##### Template Name

RANGER\_RANGER\_TAGSYNC\_health\_enabled

##### Default Value

true

##### Unit(s)

no unit



## Ranger Usersync Health

This Ranger service-level health test checks for the presence of a running, healthy Ranger Usersync. The test returns "Bad" health if the service is running and the Ranger Usersync is not running. In all other cases it returns the health of the Ranger Usersync. A failure of this health test indicates a stopped or unhealthy Ranger Usersync. Check the status of the Ranger Usersync for more information. This test can be enabled or disabled using the Ranger Usersync Role Health Test Ranger Usersync service-wide monitoring setting.

Short Name: Ranger Usersync Health

### Ranger Usersync Role Health Test

#### Description

When computing the overall RANGER health, consider Ranger Usersync's health

#### Template Name

RANGER\_RANGER\_USERSYNC\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ranger Admin Health Tests

### Ranger Admin Audit Pipeline Test

This Ranger Admin health test checks that the Auditing for the Ranger Admin role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ranger Admin process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ranger Admin host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ranger Admin monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Ranger Admin File Descriptors**

This Ranger Admin health test checks that the number of file descriptors used does not rise above some percentage of the Ranger Admin file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ranger Admin monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

ranger\_admin\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Ranger Admin Host Health**

This Ranger Admin health test factors in the health of the host upon which the Ranger Admin is running. A failure of this test means that the host running the Ranger Admin is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ranger Admin Host Health Test Ranger Admin monitoring setting.

Short Name: Host Health

**Ranger Admin Host Health Test****Description**

When computing the overall Ranger Admin health, consider the host's health.

**Template Name**

```
ranger_admin_host_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Ranger Admin Log Directory Free Space

This Ranger Admin health test checks that the filesystem containing the log directory of this Ranger Admin has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ranger Admin monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

```
log_directory_free_space_absolute_thresholds
```

**Default Value**

```
critical:5.36870912E9, warning:1.073741824E10
```

**Unit(s)**

```
BYTES
```

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

```
log_directory_free_space_percentage_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
PERCENT
```

## Ranger Admin Process Status

This Ranger Admin health test checks that the Cloudera Manager Agent on the Ranger Admin host is heart beating correctly and that the process associated with the Ranger Admin role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ranger Admin process, a lack of connectivity to the Cloudera Manager Agent on the Ranger Admin host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ranger Admin has crashed or because the Ranger Admin will not start or stop in a timely fashion. Check the Ranger Admin logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ranger Admin host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ranger Admin host, or look in the Cloudera Manager Agent logs on the Ranger Admin host for more details. This test can be enabled or disabled using the Ranger Admin Process Health Test Ranger Admin monitoring setting.

Short Name: Process Status

### Ranger Admin Process Health Test

#### Description

Enables the health test that the Ranger Admin's process state is consistent with the role configuration

#### Template Name

ranger\_admin\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Ranger Admin Ranger Admin URL Canary Check

This is a Ranger Admin role-level status test that checks whether the Ranger Admin URL is reachable or not. A failure of this health check indicates that Ranger Admin URL is not reachable.

Short Name: Ranger Admin URL Canary Check

### Ranger Admin Swap Memory Usage

This Ranger Admin health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Ranger Admin Swap Memory Usage Rate Beta

This Ranger Admin health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Ranger Admin Unexpected Exits**

This Ranger Admin health test checks that the Ranger Admin has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ranger Admin monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Ranger KMS Health Tests

### Ranger KMS Server Health

This is a Ranger KMS service-level health test that checks that enough of the Ranger KMS Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ranger KMS Servers falls below a warning threshold, expressed as a percentage of the total number of Ranger KMS Servers. The test returns "Bad" health if the number of healthy and "Concerning" Ranger KMS Servers falls below a critical threshold, expressed as a percentage of the total number of Ranger KMS Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ranger KMS Servers, this test would return "Good" health if 95 or more Ranger KMS Servers have good health. This test would return "Concerning" health if at least 90 Ranger KMS Servers have either "Good" or "Concerning" health. If more than 10 Ranger KMS Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ranger KMS Servers. Check the status of the individual Ranger KMS Servers for more information. This test can be configured using the Ranger KMS Ranger KMS service-wide monitoring setting.

Short Name: Ranger KMS Server Health

#### Healthy Ranger KMS Server Monitoring Thresholds

##### Description

The health test thresholds of the overall Ranger KMS Server health. The check returns "Concerning" health if the percentage of "Healthy" Ranger KMS Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ranger KMS Servers falls below the critical threshold.

##### Template Name

RANGER\_KMS\_RANGER\_KMS\_SERVER\_healthy\_thresholds

##### Default Value

critical:49.0, warning:99.0

##### Unit(s)

PERCENT

## Ranger KMS Server Health Tests

### Ranger KMS Server Audit Pipeline Test

This Ranger KMS Server health test checks that the Auditing for the Ranger KMS Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ranger KMS Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ranger KMS Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ranger KMS Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

|                |
|----------------|
| 20             |
| <b>Unit(s)</b> |
| MINUTES        |

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

## Ranger KMS Server File Descriptors

This Ranger KMS Server health test checks that the number of file descriptors used does not rise above some percentage of the Ranger KMS Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ranger KMS Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`ranger_kms_server_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Ranger KMS Server Host Health

This Ranger KMS Server health test factors in the health of the host upon which the Ranger KMS Server is running. A failure of this test means that the host running the Ranger KMS Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ranger KMS Server Host Health Test Ranger KMS Server monitoring setting.

Short Name: Host Health

### Ranger KMS Server Host Health Test

#### Description

When computing the overall Ranger KMS Server health, consider the host's health.

#### Template Name

ranger\_kms\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Ranger KMS Server Log Directory Free Space

This Ranger KMS Server health test checks that the filesystem containing the log directory of this Ranger KMS Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ranger KMS Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT



## Ranger KMS Server Process Status

This Ranger KMS Server health test checks that the Cloudera Manager Agent on the Ranger KMS Server host is heart beating correctly and that the process associated with the Ranger KMS Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ranger KMS Server process, a lack of connectivity to the Cloudera Manager Agent on the Ranger KMS Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ranger KMS Server has crashed or because the Ranger KMS Server will not start or stop in a timely fashion. Check the Ranger KMS Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ranger KMS Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ranger KMS Server host, or look in the Cloudera Manager Agent logs on the Ranger KMS Server host for more details. This test can be enabled or disabled using the Ranger KMS Server Process Health Test Ranger KMS Server monitoring setting.

Short Name: Process Status

### Ranger KMS Server Process Health Test

#### Description

Enables the health test that the Ranger KMS Server's process state is consistent with the role configuration

#### Template Name

`ranger_kms_server_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Ranger KMS Server Ranger KMS URL Canary Check

This is a Ranger KMS Server role-level status test that checks whether the Ranger KMS Server URL is reachable or not. A failure of this health check indicates that Ranger KMS Server URL is not reachable.

Short Name: Ranger KMS URL Canary Check

## Ranger KMS Server Swap Memory Usage

This Ranger KMS Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Ranger KMS Server Swap Memory Usage Rate Beta

This Ranger KMS Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Ranger KMS Server Unexpected Exits

This Ranger KMS Server health test checks that the Ranger KMS Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ranger KMS Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Ranger KMS Server with KTS Health Tests

### Ranger KMS Server with KTS Audit Pipeline Test

This Ranger KMS Server with KTS health test checks that the Auditing for the Ranger KMS Server with KTS role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ranger KMS Server with KTS process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ranger KMS Server with KTS host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ranger KMS Server with KTS monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

`mgmt_navigator_failure_window`

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

### Ranger KMS Server with KTS File Descriptors

This Ranger KMS Server with KTS health test checks that the number of file descriptors used does not rise above some percentage of the Ranger KMS Server with KTS file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ranger KMS Server with KTS monitoring setting.

Short Name: File Descriptors

#### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

ranger\_kms\_server\_kts\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

### Ranger KMS Server with KTS Host Health

This Ranger KMS Server with KTS health test factors in the health of the host upon which the Ranger KMS Server with KTS is running. A failure of this test means that the host running the Ranger KMS Server with KTS is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ranger KMS Server with KTS Host Health Test Ranger KMS Server with KTS monitoring setting.

Short Name: Host Health

#### Ranger KMS Server with KTS Host Health Test

**Description**

When computing the overall Ranger KMS Server with KTS health, consider the host's health.

**Template Name**

ranger\_kms\_server\_kts\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ranger KMS Server with KTS Log Directory Free Space

This Ranger KMS Server with KTS health test checks that the filesystem containing the log directory of this Ranger KMS Server with KTS has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ranger KMS Server with KTS monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Ranger KMS Server with KTS Process Status

This Ranger KMS Server with KTS health test checks that the Cloudera Manager Agent on the Ranger KMS Server with KTS host is heart beating correctly and that the process associated with the Ranger KMS Server with KTS role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ranger KMS Server with KTS process, a lack of connectivity to the Cloudera Manager Agent on the Ranger KMS Server with KTS host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ranger KMS Server with KTS has crashed or because the Ranger KMS Server with KTS will not start or stop in a timely fashion. Check the Ranger KMS Server with KTS logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ranger KMS Server with KTS host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ranger KMS Server with KTS host, or look in the Cloudera Manager Agent logs on the Ranger KMS Server with KTS host for more details. This test can be enabled or disabled using the Ranger KMS Server with KTS Process Health Test Ranger KMS Server with KTS monitoring setting.

Short Name: Process Status

### Ranger KMS Server with KTS Process Health Test

#### Description

Enables the health test that the Ranger KMS Server with KTS's process state is consistent with the role configuration

**Template Name**

ranger\_kms\_server\_kts\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ranger KMS Server with KTS Ranger KMS KTS URL Canary Check

This is a Ranger KMS KTS Server role-level status test that checks whether the Ranger KMS KTS Server URL is reachable or not. A failure of this health check indicates that Ranger KMS KTS Server URL is not reachable.

Short Name: Ranger KMS KTS URL Canary Check

## Ranger KMS Server with KTS Swap Memory Usage

This Ranger KMS Server with KTS health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Ranger KMS Server with KTS Swap Memory Usage Rate Beta

This Ranger KMS Server with KTS health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Ranger KMS Server with KTS Unexpected Exits

This Ranger KMS Server with KTS health test checks that the Ranger KMS Server with KTS has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ranger KMS Server with KTS monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Ranger KMS with Key Trustee Server Health Tests

## Ranger KMS with Key Trustee Server Ranger KMS Server with KTS Health

This is a Ranger KMS with Key Trustee Server service-level health test that checks that enough of the Ranger KMS Server with KTSs in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ranger KMS Server with KTSs falls below a warning threshold, expressed as a percentage of the total number of Ranger KMS Server with KTSs. The test returns "Bad" health if the number of healthy and "Concerning" Ranger KMS Server with KTSs falls below a critical threshold, expressed as a percentage of the total number of Ranger KMS Server with KTSs. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ranger KMS Server with KTSs, this test would return "Good" health if 95 or more Ranger KMS Server with KTSs have good health. This test would return "Concerning" health if at least 90 Ranger KMS Server with KTSs have either "Good" or "Concerning" health. If more than 10 Ranger KMS Server with KTSs have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ranger KMS Server with KTSs. Check the status of the individual Ranger KMS Server with KTSs for more information. This test can be configured using the Ranger KMS with Key Trustee Server Ranger KMS with Key Trustee Server service-wide monitoring setting.

Short Name: Ranger KMS Server with KTS Health

### Healthy Ranger KMS Server with KTS Monitoring Thresholds

#### Description

The health test thresholds of the overall Ranger KMS Server with KTS health. The check returns "Concerning" health if the percentage of "Healthy" Ranger KMS Server with KTSs falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ranger KMS Server with KTSs falls below the critical threshold.

#### Template Name

RANGER\_KMS\_KTS\_RANGER\_KMS\_SERVER\_KTS\_healthy\_thresholds

#### Default Value

critical:49.0, warning:99.0

#### Unit(s)

PERCENT

## Ranger RMS Health Tests

### Ranger RMS Server Health

This is a Ranger RMS service-level health test that checks that enough of the Ranger RMS Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ranger RMS Servers falls below a warning threshold, expressed as a percentage of the total number of Ranger RMS Servers. The test returns "Bad" health if the number of healthy and "Concerning" Ranger RMS Servers falls below a critical threshold, expressed as a percentage of the total number of Ranger RMS Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ranger RMS Servers, this test would return "Good" health if 95 or more Ranger RMS Servers have good health. This test would return "Concerning" health if at least 90 Ranger RMS Servers have either "Good" or "Concerning" health. If more than 10 Ranger RMS Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Ranger RMS Servers. Check the status of the individual Ranger RMS Servers for more information. This test can be configured using the Ranger RMS Ranger RMS service-wide monitoring setting.

Short Name: Ranger RMS Server Health

### Healthy Ranger RMS Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Ranger RMS Server health. The check returns "Concerning" health if the percentage of "Healthy" Ranger RMS Servers falls below the warning



threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ranger RMS Servers falls below the critical threshold.

**Template Name**

RANGER\_RMS\_RANGER\_RMS\_SERVER\_healthy\_thresholds

**Default Value**

critical:49.0, warning:99.0

**Unit(s)**

PERCENT

## Ranger RMS Server Health Tests

### Ranger RMS Server Audit Pipeline Test

This Ranger RMS Server health test checks that the Auditing for the Ranger RMS Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ranger RMS Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ranger RMS Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ranger RMS Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ranger RMS Server File Descriptors

This Ranger RMS Server health test checks that the number of file descriptors used does not rise above some percentage of the Ranger RMS Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ranger RMS Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

ranger\_rms\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Ranger RMS Server Host Health

This Ranger RMS Server health test factors in the health of the host upon which the Ranger RMS Server is running. A failure of this test means that the host running the Ranger RMS Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ranger RMS Server Host Health Test Ranger RMS Server monitoring setting.

Short Name: Host Health

### Ranger RMS Server Host Health Test

**Description**

When computing the overall Ranger RMS Server health, consider the host's health.

**Template Name**

ranger\_rms\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ranger RMS Server Log Directory Free Space

This Ranger RMS Server health test checks that the filesystem containing the log directory of this Ranger RMS Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ranger RMS Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Ranger RMS Server Process Status

This Ranger RMS Server health test checks that the Cloudera Manager Agent on the Ranger RMS Server host is heart beating correctly and that the process associated with the Ranger RMS Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ranger RMS Server process, a lack of connectivity to the Cloudera Manager Agent on the Ranger RMS Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ranger RMS Server has crashed or because the Ranger RMS Server will not start or stop in a timely fashion. Check the Ranger RMS Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ranger RMS Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ranger RMS Server host, or look in the Cloudera Manager Agent logs on the Ranger RMS Server host for more details. This test can be enabled or disabled using the Ranger RMS Server Process Health Test Ranger RMS Server monitoring setting.

Short Name: Process Status

### Ranger RMS Server Process Health Test

#### Description

Enables the health test that the Ranger RMS Server's process state is consistent with the role configuration

#### Template Name

ranger\_rms\_server\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ranger RMS Server Swap Memory Usage

This Ranger RMS Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Ranger RMS Server Swap Memory Usage Rate Beta

This Ranger RMS Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5  
**Unit(s)**  
 MINUTES

## Ranger RMS Server Unexpected Exits

This Ranger RMS Server health test checks that the Ranger RMS Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ranger RMS Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Ranger Raz Health Tests

### Ranger Raz Server Health

This is a Ranger Raz service-level health test that checks that enough of the Ranger Raz Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Ranger Raz Servers falls below a warning threshold, expressed as a percentage of the total number of Ranger Raz Servers. The test returns "Bad" health if the number of healthy and "Concerning" Ranger Raz Servers falls below a critical threshold, expressed as a percentage of the total number of Ranger Raz Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Ranger Raz Servers, this test would return "Good" health if 95 or more Ranger Raz Servers have good health. This test would return "Concerning" health if at least 90 Ranger Raz Servers have either "Good" or "Concerning" health. If more than 10 Ranger Raz Servers have bad health, this test

would return "Bad" health. A failure of this health test indicates unhealthy Ranger Raz Servers. Check the status of the individual Ranger Raz Servers for more information. This test can be configured using the Ranger Raz Ranger Raz service-wide monitoring setting.

Short Name: Ranger Raz Server Health

### Healthy Ranger Raz Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Ranger Raz Server health. The check returns "Concerning" health if the percentage of "Healthy" Ranger Raz Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Ranger Raz Servers falls below the critical threshold.

#### Template Name

RANGER\_RAZ\_RANGER\_RAZ\_SERVER\_healthy\_thresholds

#### Default Value

critical:49.0, warning:99.0

#### Unit(s)

PERCENT

## Ranger Raz Server Health Tests

### Ranger Raz Server Audit Pipeline Test

This Ranger Raz Server health test checks that the Auditing for the Ranger Raz Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ranger Raz Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ranger Raz Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ranger Raz Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Ranger Raz Server File Descriptors**

This Ranger Raz Server health test checks that the number of file descriptors used does not rise above some percentage of the Ranger Raz Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ranger Raz Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

ranger\_raz\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Ranger Raz Server Host Health**

This Ranger Raz Server health test factors in the health of the host upon which the Ranger Raz Server is running. A failure of this test means that the host running the Ranger Raz Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ranger Raz Server Host Health Test Ranger Raz Server monitoring setting.

Short Name: Host Health

**Ranger Raz Server Host Health Test****Description**

When computing the overall Ranger Raz Server health, consider the host's health.

**Template Name**

ranger\_raz\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Ranger Raz Server Log Directory Free Space

This Ranger Raz Server health test checks that the filesystem containing the log directory of this Ranger Raz Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ranger Raz Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Ranger Raz Server Process Status

This Ranger Raz Server health test checks that the Cloudera Manager Agent on the Ranger Raz Server host is heart beating correctly and that the process associated with the Ranger Raz Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ranger Raz Server process, a lack of connectivity to the Cloudera Manager Agent on the Ranger Raz Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ranger Raz Server has crashed or because the Ranger Raz Server will not start or stop in a timely fashion. Check the Ranger Raz Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ranger Raz Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ranger Raz Server host, or look in the Cloudera Manager Agent logs on the Ranger Raz Server host for more details. This test can be enabled or disabled using the Ranger Raz Server Process Health Test Ranger Raz Server monitoring setting.

Short Name: Process Status



### Ranger Raz Server Process Health Test

#### Description

Enables the health test that the Ranger Raz Server's process state is consistent with the role configuration

#### Template Name

ranger\_raz\_server\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Ranger Raz Server Ranger RAZ Server Status Check

This is a Ranger RAZ Server load status test that checks whether the Ranger RAZ Server is under load or not. A failure of this health check indicates that Ranger RAZ Server is in critical load state or it is not working properly.

Short Name: Ranger RAZ Server Status Check

### Ranger Raz Server Swap Memory Usage

This Ranger Raz Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

#### Process Swap Memory Thresholds

##### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

##### Template Name

process\_swap\_memory\_thresholds

##### Default Value

critical:never, warning:200.0

##### Unit(s)

BYTES

### Ranger Raz Server Swap Memory Usage Rate Beta

This Ranger Raz Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

#### Swap Memory Usage Rate Thresholds

##### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

##### Template Name

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Ranger Raz Server Unexpected Exits**

This Ranger Raz Server health test checks that the Ranger Raz Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ranger Raz Server monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Ranger Tagsync Health Tests

### Ranger Tagsync Audit Pipeline Test

This Ranger Tagsync health test checks that the Auditing for the Ranger Tagsync role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ranger Tagsync process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ranger Tagsync host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ranger Tagsync monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

### Ranger Tagsync File Descriptors

This Ranger Tagsync health test checks that the number of file descriptors used does not rise above some percentage of the Ranger Tagsync file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ranger Tagsync monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

ranger\_tagsync\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Ranger Tagsync Host Health

This Ranger Tagsync health test factors in the health of the host upon which the Ranger Tagsync is running. A failure of this test means that the host running the Ranger Tagsync is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ranger Tagsync Host Health Test Ranger Tagsync monitoring setting.

Short Name: Host Health

### Ranger Tagsync Host Health Test

#### Description

When computing the overall Ranger Tagsync health, consider the host's health.

#### Template Name

ranger\_tagsync\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Ranger Tagsync Log Directory Free Space

This Ranger Tagsync health test checks that the filesystem containing the log directory of this Ranger Tagsync has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ranger Tagsync monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Ranger Tagsync Process Status**

This Ranger Tagsync health test checks that the Cloudera Manager Agent on the Ranger Tagsync host is heart beating correctly and that the process associated with the Ranger Tagsync role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ranger Tagsync process, a lack of connectivity to the Cloudera Manager Agent on the Ranger Tagsync host, or a problem with the Cloudera Manager Agent. This test can fail either because the Ranger Tagsync has crashed or because the Ranger Tagsync will not start or stop in a timely fashion. Check the Ranger Tagsync logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ranger Tagsync host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ranger Tagsync host, or look in the Cloudera Manager Agent logs on the Ranger Tagsync host for more details. This test can be enabled or disabled using the Ranger Tagsync Process Health Test Ranger Tagsync monitoring setting.

Short Name: Process Status

**Ranger Tagsync Process Health Test****Description**

Enables the health test that the Ranger Tagsync's process state is consistent with the role configuration

**Template Name**

ranger\_tagsync\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Ranger Tagsync Swap Memory Usage**

This Ranger Tagsync health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Ranger Tagsync Swap Memory Usage Rate Beta

This Ranger Tagsync health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Ranger Tagsync Unexpected Exits

This Ranger Tagsync health test checks that the Ranger Tagsync has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ranger Tagsync monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Ranger Usersync Health Tests

### Ranger Usersync Audit Pipeline Test

This Ranger Usersync health test checks that the Auditing for the Ranger Usersync role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Ranger Usersync process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Ranger Usersync host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Ranger Usersync monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

## Ranger Usersync File Descriptors

This Ranger Usersync health test checks that the number of file descriptors used does not rise above some percentage of the Ranger Usersync file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Ranger Usersync monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`ranger_usersync_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Ranger Usersync Host Health

This Ranger Usersync health test factors in the health of the host upon which the Ranger Usersync is running. A failure of this test means that the host running the Ranger Usersync is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Ranger Usersync Host Health Test Ranger Usersync monitoring setting.



Short Name: Host Health

### Ranger Usersync Host Health Test

#### Description

When computing the overall Ranger Usersync health, consider the host's health.

#### Template Name

ranger\_usersync\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Ranger Usersync Log Directory Free Space

This Ranger Usersync health test checks that the filesystem containing the log directory of this Ranger Usersync has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Ranger Usersync monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Ranger Usersync Process Status

This Ranger Usersync health test checks that the Cloudera Manager Agent on the Ranger Usersync host is heart beating correctly and that the process associated with the Ranger Usersync role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Ranger Usersync process, a lack of connectivity to the Cloudera Manager Agent on the Ranger Usersync host, or a problem with the Cloudera Manager

Agent. This test can fail either because the Ranger Usersync has crashed or because the Ranger Usersync will not start or stop in a timely fashion. Check the Ranger Usersync logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Ranger Usersync host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Ranger Usersync host, or look in the Cloudera Manager Agent logs on the Ranger Usersync host for more details. This test can be enabled or disabled using the Ranger Usersync Process Health Test Ranger Usersync monitoring setting.

Short Name: Process Status

### Ranger Usersync Process Health Test

#### Description

Enables the health test that the Ranger Usersync's process state is consistent with the role configuration

#### Template Name

`ranger_usersync_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Ranger Usersync Swap Memory Usage

This Ranger Usersync health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Ranger Usersync Swap Memory Usage Rate Beta

This Ranger Usersync health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Ranger Usersync Unexpected Exits**

This Ranger Usersync health test checks that the Ranger Usersync has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Ranger Usersync monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## RegionServer Health Tests

### RegionServer Audit Pipeline Test

This RegionServer health test checks that the Auditing for the RegionServer role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of RegionServer process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the RegionServer host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check RegionServer monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## RegionServer Cluster Connectivity

This is a RegionServer health test that checks whether the Master considers the RegionServer alive. A failure of this health test may indicate that the RegionServer is having trouble communicating with at least the HBase Master and possibly the entire HBase cluster. Look in the RegionServer logs for more details. This test can be enabled or disabled using the HBase RegionServer to Master Connectivity Test RegionServer monitoring setting. The HBase Region Server Connectivity Tolerance at Startup RegionServer monitoring setting and the Health Test Startup Tolerance Master monitoring setting can be used to control the test's tolerance windows around RegionServer and Master restarts respectively.

Short Name: Cluster Connectivity

### HBase Region Server Connectivity Tolerance at Startup

#### Description

The amount of time to wait for the HBase Region Server to fully start up and connect to the HBase Master before enforcing the connectivity check.

#### Template Name

regionserver\_connectivity\_tolerance

#### Default Value

180

#### Unit(s)

SECONDS

### HBase RegionServer to Master Connectivity Test

#### Description

Enables the health test that the RegionServer is connected to the Master

#### Template Name

regionserver\_master\_connectivity\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Health Test Startup Tolerance

#### Description

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

#### Template Name

master\_startup\_tolerance

#### Default Value

5

#### Unit(s)

MINUTES

## RegionServer Compaction Queue Size

This is a RegionServer health test that checks that a moving average of the size of the RegionServer's compaction queue does not exceed some value. A failure of this health test indicates a high write load on the RegionServer. Try reducing the write load on the RegionServer, increasing capacity by adding additional disks to the RegionServer,

or adding additional RegionServers. This test can be configured using the HBase RegionServer Compaction Queue Monitoring Thresholds and HBase RegionServer Compaction Queue Monitoring Period RegionServer monitoring settings.

Short Name: Compaction Queue Size

### HBase RegionServer Compaction Queue Monitoring Period

#### Description

The period over which to compute the moving average of the compaction queue size.

#### Template Name

regionserver\_compaction\_queue\_window

#### Default Value

5

#### Unit(s)

MINUTES

### HBase RegionServer Compaction Queue Monitoring Thresholds

#### Description

The health test thresholds of the weighted average size of the HBase RegionServer compaction queue over a recent period. See HBase RegionServer Compaction Queue Monitoring Period.

#### Template Name

regionserver\_compaction\_queue\_thresholds

#### Default Value

critical:never, warning:10.0

#### Unit(s)

no unit

## RegionServer File Descriptors

This RegionServer health test checks that the number of file descriptors used does not rise above some percentage of the RegionServer file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds RegionServer monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

regionserver\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## RegionServer Flush Queue Size

This is a RegionServer health test that checks that a moving average of the size of the RegionServer's flush queue does not exceed some value. A failure of this health test indicates a high write load on the RegionServer. Try reducing the write load on the RegionServer, increasing capacity by adding additional disks to the RegionServer, or adding additional RegionServers. This test can be configured using the HBase RegionServer Flush Queue Monitoring Thresholds and HBase RegionServer Flush Queue Monitoring Period RegionServer monitoring settings.

Short Name: Flush Queue Size

### HBase RegionServer Flush Queue Monitoring Period

#### Description

The period over which to compute the moving average of the flush queue size.

#### Template Name

regionserver\_flush\_queue\_window

#### Default Value

5

#### Unit(s)

MINUTES

### HBase RegionServer Flush Queue Monitoring Thresholds

#### Description

The health test thresholds of the average size of the HBase RegionServer flush queue over a recent period. See HBase RegionServer Flush Queue Monitoring Period.

#### Template Name

regionserver\_flush\_queue\_thresholds

#### Default Value

critical:never, warning:10.0

#### Unit(s)

no unit

## RegionServer GC Duration

This RegionServer health test checks that the RegionServer is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the RegionServer. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period RegionServer monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

regionserver\_gc\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

regionserver\_gc\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

### RegionServer Heap Dump Directory Free Space

This RegionServer health test checks that the filesystem containing the heap dump directory of this RegionServer has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds RegionServer monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### RegionServer Host Health

This RegionServer health test factors in the health of the host upon which the RegionServer is running. A failure of this test means that the host running the RegionServer is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the RegionServer Host Health Test RegionServer monitoring setting.



Short Name: Host Health

### RegionServer Host Health Test

#### Description

When computing the overall RegionServer health, consider the host's health.

#### Template Name

regionserver\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## RegionServer Log Directory Free Space

This RegionServer health test checks that the filesystem containing the log directory of this RegionServer has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds RegionServer monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## RegionServer Memstore Size

This is a RegionServer health test that checks that the amount of the RegionServer's memory devoted to memstores does not exceed some percentage of the RegionServer's configured `hbase.regionserver.global.memstore.upperLimit`. When a RegionServer's memstores reach this maximum size, new updates are blocked while the RegionServer flushes. A failure of this health test indicates a high write load on the RegionServer. Try reducing the write load

on the RegionServer, increasing capacity by adding additional disks to the RegionServer, or adding additional RegionServers. This test can be configured using the HBase RegionServer Memstore Size Thresholds RegionServer monitoring setting.

Short Name: Memstore Size

### HBase RegionServer Memstore Size Thresholds

#### Description

The health test thresholds of the total size of RegionServer's memstores. Specified as a percentage of the configured upper limit. See Maximum Size of All Memstores in RegionServer.

#### Template Name

regionserver\_memstore\_size\_thresholds

#### Default Value

critical:100.0, warning:95.0

#### Unit(s)

PERCENT

## RegionServer Process Status

This RegionServer health test checks that the Cloudera Manager Agent on the RegionServer host is heart beating correctly and that the process associated with the RegionServer role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the RegionServer process, a lack of connectivity to the Cloudera Manager Agent on the RegionServer host, or a problem with the Cloudera Manager Agent. This test can fail either because the RegionServer has crashed or because the RegionServer will not start or stop in a timely fashion. Check the RegionServer logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the RegionServer host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the RegionServer host, or look in the Cloudera Manager Agent logs on the RegionServer host for more details. This test can be enabled or disabled using the RegionServer Process Health Test RegionServer monitoring setting.

Short Name: Process Status

### RegionServer Process Health Test

#### Description

Enables the health test that the RegionServer's process state is consistent with the role configuration

#### Template Name

regionserver\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## RegionServer Store File Index Size

This is a RegionServer health test that checks that the sum of the sizes of all store file indexes does not exceed some percentage of the RegionServer's maximum heap size. A failure of this health test indicates that the RegionServer is using a significant portion of its memory for store file indexes. If the amount of memory devoted to these indexes is undesirably high, the size of indexes can be reduced by increasing the HBase block size, by using smaller key values, or by using fewer columns. Each of these choices involves trade-offs. Contact Cloudera Support for more information on this topic. This test can be configured using the Percentage of Heap Used by HStoreFile Index RegionServer monitoring setting.

Short Name: Store File Index Size

### Percentage of Heap Used by HStoreFile Index

#### Description

The health test thresholds of the size used by the HStoreFile index. Specified as a percentage of the total heap size.

#### Template Name

regionserver\_store\_file\_idx\_size\_thresholds

#### Default Value

critical:never, warning:10.0

#### Unit(s)

PERCENT

## RegionServer Swap Memory Usage

This RegionServer health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## RegionServer Swap Memory Usage Rate Beta

This RegionServer health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

### RegionServer Unexpected Exits

This RegionServer health test checks that the RegionServer has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period RegionServer monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

### RegionServer Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the RegionServer, a misconfiguration of the RegionServer, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the RegionServer for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests

to the RegionServer's web server are failing or timing out. If the test's failure message indicates an unexpected response, the RegionServer's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection RegionServer monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

regionserver\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

regionserver\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Reports Manager Health Tests

### Reports Manager Audit Pipeline Test

This Reports Manager health test checks that the Auditing for the Reports Manager role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Reports Manager process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Reports Manager host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Reports Manager monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**Reports Manager Cloudera Manager Descriptor Age**

This is a Reports Manager health test that checks if the Cloudera Manager descriptor has been refreshed recently. The Cloudera Manager descriptor is used to pass configuration information from the Cloudera Manager Server to the Reports Manager. If the descriptor becomes stale, Reports Manager operation may be impacted because the Reports Manager will receive information about new hosts, roles, and services, or changes to existing hosts, roles, and services. A stale descriptor usually indicates problems communicating with the Cloudera Manager Server but can also indicate performance problems or a bug. Consult the Reports Manager log and the Cloudera Manager Server log for more information. This test can be configured using the Cloudera Manager Descriptor Age Thresholds Cloudera Manager Reports Manager setting.

Short Name: Cloudera Manager Descriptor Age

**Cloudera Manager Descriptor Age Thresholds****Description**

The health test thresholds for monitoring the time since the Cloudera Manager descriptor was last refreshed.

**Template Name**`scm_descriptor_age_thresholds`**Default Value**

critical:120000.0, warning:60000.0

**Unit(s)**

no unit

## Reports Manager File Descriptors

This Reports Manager health test checks that the number of file descriptors used does not rise above some percentage of the Reports Manager file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Reports Manager monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

reportsmanager\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Reports Manager Heap Dump Directory Free Space

This Reports Manager health test checks that the filesystem containing the heap dump directory of this Reports Manager has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Reports Manager monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

## PERCENT

## Reports Manager Host Health

This Reports Manager health test factors in the health of the host upon which the Reports Manager is running. A failure of this test means that the host running the Reports Manager is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Reports Manager Host Health Test Reports Manager monitoring setting.

Short Name: Host Health

### Reports Manager Host Health Test

**Description**

When computing the overall Reports Manager health, consider the host's health.

**Template Name**

reportsmanager\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Reports Manager Log Directory Free Space

This Reports Manager health test checks that the filesystem containing the log directory of this Reports Manager has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Reports Manager monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**



## PERCENT

## Reports Manager Pause Duration

This Reports Manager health test checks that the Reports Manager threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Reports Manager that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Reports Manager is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Reports Manager logs for any pause monitor output and check garbage collection metrics exposed by the Reports Manager. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period Reports Manager monitoring settings.

Short Name: Pause Duration

### Pause Duration Monitoring Period

#### Description

The period to review when computing the moving average of extra time the pause monitor spent paused.

#### Template Name

reportsmanager\_pause\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Pause Duration Thresholds

#### Description

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

#### Template Name

reportsmanager\_pause\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

## Reports Manager Process Status

This Reports Manager health test checks that the Cloudera Manager Agent on the Reports Manager host is heart beating correctly and that the process associated with the Reports Manager role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Reports Manager process, a lack of connectivity to the Cloudera Manager Agent on the Reports Manager host, or a problem with the Cloudera Manager Agent. This test can fail either because the Reports Manager has crashed or because the Reports Manager will not start or stop in a timely fashion. Check the Reports Manager logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Reports Manager host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Reports Manager host, or look in the Cloudera Manager Agent logs on the Reports Manager host for more details. This test can be enabled or disabled using the Reports Manager Process Health Test Reports Manager monitoring setting.

Short Name: Process Status

### Reports Manager Process Health Test

#### Description

Enables the health test that the Reports Manager's process state is consistent with the role configuration

#### Template Name

reportsmanager\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Reports Manager Reports Manager Working Directory Free Space

This is a Reports Manager health test that checks that the filesystem containing the Reports Manager Working Directory of this Reports Manager has sufficient free space. See the Reports Manager Working Directory description on the Reports Manager configuration page for more information on this directory type. This test can be configured using the Reports Manager Working Directory Free Space Monitoring Absolute Thresholds and Reports Manager Working Directory Free Space Monitoring Percentage Thresholds Reports Manager monitoring settings.

Short Name: Reports Manager Working Directory Free Space

### Reports Manager Working Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Reports Manager Working Directory.

#### Template Name

reportsmanager\_scratch\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Reports Manager Working Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Reports Manager Working Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Reports Manager Working Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

reportsmanager\_scratch\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Reports Manager Swap Memory Usage

This Reports Manager health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Reports Manager Swap Memory Usage Rate Beta

This Reports Manager health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Reports Manager Unexpected Exits

This Reports Manager health test checks that the Reports Manager has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates

whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Reports Manager monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## ResourceManager Health Tests

### ResourceManager Audit Pipeline Test

This ResourceManager health test checks that the Auditing for the ResourceManager role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of ResourceManager process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the ResourceManager host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check ResourceManager monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

`mgmt_navigator_status_check_enabled`

**Default Value**

true

**Unit(s)**

no unit

**ResourceManager File Descriptors**

This ResourceManager health test checks that the number of file descriptors used does not rise above some percentage of the ResourceManager file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds ResourceManager monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

`resourcemanager_fd_thresholds`

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**ResourceManager GC Duration**

This ResourceManager health test checks that the ResourceManager is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java

garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the ResourceManager. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period ResourceManager monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

resourcemanager\_gc\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

resourcemanager\_gc\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

### ResourceManager Heap Dump Directory Free Space

This ResourceManager health test checks that the filesystem containing the heap dump directory of this ResourceManager has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds ResourceManager monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## ResourceManager Host Health

This ResourceManager health test factors in the health of the host upon which the ResourceManager is running. A failure of this test means that the host running the ResourceManager is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the ResourceManager Host Health Test ResourceManager monitoring setting.

Short Name: Host Health

### ResourceManager Host Health Test

**Description**

When computing the overall ResourceManager health, consider the host's health.

**Template Name**

resourcemanager\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## ResourceManager Log Directory Free Space

This ResourceManager health test checks that the filesystem containing the log directory of this ResourceManager has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds ResourceManager monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## ResourceManager Process Status

This ResourceManager health test checks that the Cloudera Manager Agent on the ResourceManager host is heart beating correctly and that the process associated with the ResourceManager role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the ResourceManager process, a lack of connectivity to the Cloudera Manager Agent on the ResourceManager host, or a problem with the Cloudera Manager Agent. This test can fail either because the ResourceManager has crashed or because the ResourceManager will not start or stop in a timely fashion. Check the ResourceManager logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the ResourceManager host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the ResourceManager host, or look in the Cloudera Manager Agent logs on the ResourceManager host for more details. This test can be enabled or disabled using the ResourceManager Process Health Test ResourceManager monitoring setting.

Short Name: Process Status

### ResourceManager Process Health Test

**Description**

Enables the health test that the ResourceManager's process state is consistent with the role configuration

**Template Name**

resourcemanager\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## ResourceManager Swap Memory Usage

This ResourceManager health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**



critical:never, warning:200.0

**Unit(s)**

BYTES

## ResourceManager Swap Memory Usage Rate Beta

This ResourceManager health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## ResourceManager Unexpected Exits

This ResourceManager health test checks that the ResourceManager has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period ResourceManager monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

```
unexpected_exits_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

```
unexpected_exits_thresholds
```

**Default Value**

```
critical:any, warning:never
```

**Unit(s)**

```
no unit
```

**ResourceManager Web Server Status**

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the ResourceManager, a misconfiguration of the ResourceManager, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the ResourceManager for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the ResourceManager's web server are failing or timing out. If the test's failure message indicates an unexpected response, the ResourceManager's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection ResourceManager monitoring setting.

Short Name: Web Server Status

**Web Metric Collection****Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**

```
resourcemanager_web_metric_collection_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

```
resourcemanager_web_metric_collection_thresholds
```

**Default Value**

```
critical:never, warning:10000.0
```

**Unit(s)**

MILLISECONDS

## S3 Gateway Health Tests

### S3 Gateway Audit Pipeline Test

This S3 Gateway health test checks that the Auditing for the S3 Gateway role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of S3 Gateway process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the S3 Gateway host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check S3 Gateway monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## S3 Gateway File Descriptors

This S3 Gateway health test checks that the number of file descriptors used does not rise above some percentage of the S3 Gateway file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds S3 Gateway monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

s3\_gateway\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## S3 Gateway Host Health

This S3 Gateway health test factors in the health of the host upon which the S3 Gateway is running. A failure of this test means that the host running the S3 Gateway is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the S3 Gateway Host Health Test S3 Gateway monitoring setting.

Short Name: Host Health

### S3 Gateway Host Health Test

#### Description

When computing the overall S3 Gateway health, consider the host's health.

#### Template Name

s3\_gateway\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## S3 Gateway Log Directory Free Space

This S3 Gateway health test checks that the filesystem containing the log directory of this S3 Gateway has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds S3 Gateway monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**S3 Gateway Process Status**

This S3 Gateway health test checks that the Cloudera Manager Agent on the S3 Gateway host is heart beating correctly and that the process associated with the S3 Gateway role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the S3 Gateway process, a lack of connectivity to the Cloudera Manager Agent on the S3 Gateway host, or a problem with the Cloudera Manager Agent. This test can fail either because the S3 Gateway has crashed or because the S3 Gateway will not start or stop in a timely fashion. Check the S3 Gateway logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the S3 Gateway host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the S3 Gateway host, or look in the Cloudera Manager Agent logs on the S3 Gateway host for more details. This test can be enabled or disabled using the S3 Gateway Process Health Test S3 Gateway monitoring setting.

Short Name: Process Status

**S3 Gateway Process Health Test****Description**

Enables the health test that the S3 Gateway's process state is consistent with the role configuration

**Template Name**

s3\_gateway\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**S3 Gateway Swap Memory Usage**

This S3 Gateway health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### S3 Gateway Swap Memory Usage Rate Beta

This S3 Gateway health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

### S3 Gateway Unexpected Exits

This S3 Gateway health test checks that the S3 Gateway has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period S3 Gateway monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## SRM Driver Health Tests

### SRM Driver Audit Pipeline Test

This SRM Driver health test checks that the Auditing for the SRM Driver role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of SRM Driver process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the SRM Driver host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check SRM Driver monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

### SRM Driver Distributed Herder Health Test

Short Name: Distributed Herder Health Test

### SRM Driver File Descriptors

This SRM Driver health test checks that the number of file descriptors used does not rise above some percentage of the SRM Driver file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds SRM Driver monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`streams_replication_manager_driver_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### SRM Driver Host Health



This SRM Driver health test factors in the health of the host upon which the SRM Driver is running. A failure of this test means that the host running the SRM Driver is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the SRM Driver Host Health Test SRM Driver monitoring setting.

Short Name: Host Health

### SRM Driver Host Health Test

#### Description

When computing the overall SRM Driver health, consider the host's health.

#### Template Name

streams\_replication\_manager\_driver\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## SRM Driver Log Directory Free Space

This SRM Driver health test checks that the filesystem containing the log directory of this SRM Driver has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds SRM Driver monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## SRM Driver Process Status

This SRM Driver health test checks that the Cloudera Manager Agent on the SRM Driver host is heart beating correctly and that the process associated with the SRM Driver role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the SRM Driver process, a lack of connectivity to the Cloudera Manager Agent on the SRM Driver host, or a problem with the Cloudera Manager Agent. This test can fail either because the SRM Driver has crashed or because the SRM Driver will not start or stop in a timely fashion. Check the SRM Driver logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the SRM Driver host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the SRM Driver host, or look in the Cloudera Manager Agent logs on the SRM Driver host for more details. This test can be enabled or disabled using the SRM Driver Process Health Test SRM Driver monitoring setting.

Short Name: Process Status

### SRM Driver Process Health Test

#### Description

Enables the health test that the SRM Driver's process state is consistent with the role configuration

#### Template Name

`streams_replication_manager_driver_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### SRM Driver Swap Memory Usage

This SRM Driver health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### SRM Driver Swap Memory Usage Rate Beta

This SRM Driver health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**SRM Driver Unexpected Exits**

This SRM Driver health test checks that the SRM Driver has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period SRM Driver monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## SRM Service Health Tests

### SRM Service Audit Pipeline Test

This SRM Service health test checks that the Auditing for the SRM Service role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of SRM Service process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the SRM Service host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check SRM Service monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

**Unit(s)**

no unit

## SRM Service File Descriptors

This SRM Service health test checks that the number of file descriptors used does not rise above some percentage of the SRM Service file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds SRM Service monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

streams\_replication\_manager\_service\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## SRM Service Host Health

This SRM Service health test factors in the health of the host upon which the SRM Service is running. A failure of this test means that the host running the SRM Service is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the SRM Service Host Health Test SRM Service monitoring setting.

Short Name: Host Health

### SRM Service Host Health Test

**Description**

When computing the overall SRM Service health, consider the host's health.

**Template Name**

streams\_replication\_manager\_service\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## SRM Service Log Directory Free Space

This SRM Service health test checks that the filesystem containing the log directory of this SRM Service has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds SRM Service monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**SRM Service Metrics Processor Health Test**

Short Name: Metrics Processor Health Test

**SRM Service Process Status**

This SRM Service health test checks that the Cloudera Manager Agent on the SRM Service host is heart beating correctly and that the process associated with the SRM Service role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the SRM Service process, a lack of connectivity to the Cloudera Manager Agent on the SRM Service host, or a problem with the Cloudera Manager Agent. This test can fail either because the SRM Service has crashed or because the SRM Service will not start or stop in a timely fashion. Check the SRM Service logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the SRM Service host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the SRM Service host, or look in the Cloudera Manager Agent logs on the SRM Service host for more details. This test can be enabled or disabled using the SRM Service Process Health Test SRM Service monitoring setting.

Short Name: Process Status

**SRM Service Process Health Test****Description**

Enables the health test that the SRM Service's process state is consistent with the role configuration

**Template Name**

streams\_replication\_manager\_service\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## SRM Service SRM Service - Remote SRM Service Discovery Endpoint Groups Aggregated Health Test

Short Name: SRM Service - Remote SRM Service Discovery Endpoint Groups Aggregated Health Test

## SRM Service SRM Service - Remote SRM Service Discovery Endpoint Groups Validated With Health Checks Aggregated Health Test

Short Name: SRM Service - Remote SRM Service Discovery Endpoint Groups Validated With Health Checks Aggregated Health Test

## SRM Service SRM Service - Remote SRM Service Discovery Topic Consumers Aggregated Health Test

Short Name: SRM Service - Remote SRM Service Discovery Topic Consumers Aggregated Health Test

## SRM Service SRM Service - Service Discovery Heartbeat Producers Aggregated Health Test

Short Name: SRM Service - Service Discovery Heartbeat Producers Aggregated Health Test

## SRM Service SRM Status Processor Streams App Kafka Connection Health Test

Short Name: SRM Status Processor Streams App Kafka Connection Health Test

## SRM Service SRM Streams App Kafka Connection Health Test

Short Name: SRM Streams App Kafka Connection Health Test

## SRM Service Status Metrics Processor Health Test

Short Name: Status Metrics Processor Health Test

## SRM Service Swap Memory Usage

This SRM Service health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## SRM Service Swap Memory Usage Rate Beta

This SRM Service health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## SRM Service Unexpected Exits

This SRM Service health test checks that the SRM Service has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period SRM Service monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES



### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

`critical:any, warning:never`

#### Unit(s)

no unit

## Schema Registry Health Tests

### Schema Registry Server Health

This is a Schema Registry service-level health test that checks that enough of the Schema Registry Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Schema Registry Servers falls below a warning threshold, expressed as a percentage of the total number of Schema Registry Servers. The test returns "Bad" health if the number of healthy and "Concerning" Schema Registry Servers falls below a critical threshold, expressed as a percentage of the total number of Schema Registry Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Schema Registry Servers, this test would return "Good" health if 95 or more Schema Registry Servers have good health. This test would return "Concerning" health if at least 90 Schema Registry Servers have either "Good" or "Concerning" health. If more than 10 Schema Registry Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Schema Registry Servers. Check the status of the individual Schema Registry Servers for more information. This test can be configured using the Schema Registry Schema Registry service-wide monitoring setting.

Short Name: Schema Registry Server Health

### Healthy Schema Registry Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Schema Registry Server health. The check returns "Concerning" health if the percentage of "Healthy" Schema Registry Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Schema Registry Servers falls below the critical threshold.

#### Template Name

`SCHEMAREGISTRY_SCHEMA_REGISTRY_SERVER_healthy_thresholds`

#### Default Value

`critical:49.99, warning:99.99`

#### Unit(s)

PERCENT

## Schema Registry Server Health Tests

### Schema Registry Server Audit Pipeline Test

This Schema Registry Server health test checks that the Auditing for the Schema Registry Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Schema Registry Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Schema Registry Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Schema Registry Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Schema Registry Server File Descriptors

This Schema Registry Server health test checks that the number of file descriptors used does not rise above some percentage of the Schema Registry Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Schema Registry Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

schema\_registry\_server\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Schema Registry Server Host Health

This Schema Registry Server health test factors in the health of the host upon which the Schema Registry Server is running. A failure of this test means that the host running the Schema Registry Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Schema Registry Server Host Health Test Schema Registry Server monitoring setting.

Short Name: Host Health

### Schema Registry Server Host Health Test

#### Description

When computing the overall Schema Registry Server health, consider the host's health.

#### Template Name

schema\_registry\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Schema Registry Server Log Directory Free Space

This Schema Registry Server health test checks that the filesystem containing the log directory of this Schema Registry Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Schema Registry Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

## Log Directory Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

log\_directory\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## Schema Registry Server Process Status

This Schema Registry Server health test checks that the Cloudera Manager Agent on the Schema Registry Server host is heart beating correctly and that the process associated with the Schema Registry Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Schema Registry Server process, a lack of connectivity to the Cloudera Manager Agent on the Schema Registry Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Schema Registry Server has crashed or because the Schema Registry Server will not start or stop in a timely fashion. Check the Schema Registry Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Schema Registry Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Schema Registry Server host, or look in the Cloudera Manager Agent logs on the Schema Registry Server host for more details. This test can be enabled or disabled using the Schema Registry Server Process Health Test Schema Registry Server monitoring setting.

Short Name: Process Status

## Schema Registry Server Process Health Test

### Description

Enables the health test that the Schema Registry Server's process state is consistent with the role configuration

### Template Name

schema\_registry\_server\_scm\_health\_enabled

### Default Value

true

### Unit(s)

no unit

## Schema Registry Server Swap Memory Usage

This Schema Registry Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

## Process Swap Memory Thresholds

### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

### Template Name

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Schema Registry Server Swap Memory Usage Rate Beta

This Schema Registry Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
BYTES
```

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

```
MINUTES
```

## Schema Registry Server Unexpected Exits

This Schema Registry Server health test checks that the Schema Registry Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Schema Registry Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## SecondaryNameNode Health Tests

### SecondaryNameNode Audit Pipeline Test

This SecondaryNameNode health test checks that the Auditing for the SecondaryNameNode role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of SecondaryNameNode process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the SecondaryNameNode host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check SecondaryNameNode monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**SecondaryNameNode File Descriptors**

This SecondaryNameNode health test checks that the number of file descriptors used does not rise above some percentage of the SecondaryNameNode file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds SecondaryNameNode monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

secondarynamenode\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**SecondaryNameNode GC Duration**

This SecondaryNameNode health test checks that the SecondaryNameNode is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the SecondaryNameNode. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period SecondaryNameNode monitoring settings.

Short Name: GC Duration

**Garbage Collection Duration Monitoring Period****Description**

The period to review when computing the moving average of garbage collection time.

**Template Name**

secondarynamenode\_gc\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Garbage Collection Duration Thresholds****Description**

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

**Template Name**

secondarynamenode\_gc\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

**SecondaryNameNode HDFS Checkpoint Directories Free Space**

This is a SecondaryNameNode health test that checks that the filesystem containing the HDFS Checkpoint Directories of this SecondaryNameNode has sufficient free space. See the HDFS Checkpoint Directories description on the SecondaryNameNode configuration page for more information on this directory type. This test can be configured using the HDFS Checkpoint Directories Free Space Monitoring Absolute Thresholds and HDFS Checkpoint Directories Free Space Monitoring Percentage Thresholds SecondaryNameNode monitoring settings.

Short Name: HDFS Checkpoint Directories Free Space

**HDFS Checkpoint Directories Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's HDFS Checkpoint Directories.

**Template Name**

secondarynamenode\_checkpoint\_directories\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**HDFS Checkpoint Directories Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's HDFS Checkpoint Directories. Specified as a percentage of the capacity on that filesystem. This setting is not used if a HDFS Checkpoint Directories Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

secondarynamenode\_checkpoint\_directories\_free\_space\_percentage\_thresholds



**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## SecondaryNameNode Heap Dump Directory Free Space

This SecondaryNameNode health test checks that the filesystem containing the heap dump directory of this SecondaryNameNode has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds SecondaryNameNode monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## SecondaryNameNode Host Health

This SecondaryNameNode health test factors in the health of the host upon which the SecondaryNameNode is running. A failure of this test means that the host running the SecondaryNameNode is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the SecondaryNameNode Host Health Test SecondaryNameNode monitoring setting.

Short Name: Host Health

### SecondaryNameNode Host Health Test

**Description**

When computing the overall SecondaryNameNode health, consider the host's health.

**Template Name**

```
secondarynamenode_host_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## SecondaryNameNode Log Directory Free Space

This SecondaryNameNode health test checks that the filesystem containing the log directory of this SecondaryNameNode has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds SecondaryNameNode monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

```
log_directory_free_space_absolute_thresholds
```

**Default Value**

```
critical:5.36870912E9, warning:1.073741824E10
```

**Unit(s)**

```
BYTES
```

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

```
log_directory_free_space_percentage_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
PERCENT
```

## SecondaryNameNode Process Status

This SecondaryNameNode health test checks that the Cloudera Manager Agent on the SecondaryNameNode host is heart beating correctly and that the process associated with the SecondaryNameNode role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the SecondaryNameNode process, a lack of connectivity to the Cloudera Manager Agent on the SecondaryNameNode host, or a problem with the Cloudera Manager Agent. This test can fail either because the SecondaryNameNode has crashed or because the SecondaryNameNode will not start or stop in a timely fashion. Check the SecondaryNameNode logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the SecondaryNameNode host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the SecondaryNameNode host, or look in the Cloudera Manager Agent logs on the SecondaryNameNode

host for more details. This test can be enabled or disabled using the SecondaryNameNode Process Health Test SecondaryNameNode monitoring setting.

Short Name: Process Status

### SecondaryNameNode Process Health Test

#### Description

Enables the health test that the SecondaryNameNode's process state is consistent with the role configuration

#### Template Name

secondarynamenode\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### SecondaryNameNode Swap Memory Usage

This SecondaryNameNode health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### SecondaryNameNode Swap Memory Usage Rate Beta

This SecondaryNameNode health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**SecondaryNameNode Unexpected Exits**

This SecondaryNameNode health test checks that the SecondaryNameNode has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period SecondaryNameNode monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**SecondaryNameNode Web Server Status**

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the SecondaryNameNode, a misconfiguration of the SecondaryNameNode, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the SecondaryNameNode for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the SecondaryNameNode's web server are failing or timing out. If the test's failure message indicates an unexpected response, the SecondaryNameNode's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection SecondaryNameNode monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

secondarynamenode\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

secondarynamenode\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Sentry Health Tests

### Sentry Server Health

This is a Sentry service-level health test that checks that enough of the Sentry Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Sentry Servers falls below a warning threshold, expressed as a percentage of the total number of Sentry Servers. The test returns "Bad" health if the number of healthy and "Concerning" Sentry Servers falls below a critical threshold, expressed as a percentage of the total number of Sentry Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Sentry Servers, this test would return "Good" health if 95 or more Sentry Servers have good health. This test would return "Concerning" health if at least 90 Sentry Servers have either "Good" or "Concerning" health. If more than 10 Sentry Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Sentry Servers. Check the status of the individual Sentry Servers for more information. This test can be configured using the Sentry Sentry service-wide monitoring setting.

Short Name: Sentry Server Health

### Healthy Sentry Server Monitoring Thresholds

#### Description

The health test thresholds of the overall Sentry Server health. The check returns "Concerning" health if the percentage of "Healthy" Sentry Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Sentry Servers falls below the critical threshold.

#### Template Name

sentry\_sentry\_server\_healthy\_thresholds

#### Default Value

critical:51.0, warning:99.0

#### Unit(s)

PERCENT

## Sentry Server Health Tests

### Sentry Server Audit Pipeline Test

This Sentry Server health test checks that the Auditing for the Sentry Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Sentry Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Sentry Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Sentry Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Sentry Server File Descriptors

This Sentry Server health test checks that the number of file descriptors used does not rise above some percentage of the Sentry Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Sentry Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

sentry\_server\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Sentry Server Heap Dump Directory Free Space

This Sentry Server health test checks that the filesystem containing the heap dump directory of this Sentry Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Sentry Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Sentry Server Host Health

This Sentry Server health test factors in the health of the host upon which the Sentry Server is running. A failure of this test means that the host running the Sentry Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Sentry Server Host Health Test Sentry Server monitoring setting.

Short Name: Host Health

### Sentry Server Host Health Test

#### Description

When computing the overall Sentry Server health, consider the host's health.

#### Template Name

sentry\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Sentry Server Log Directory Free Space

This Sentry Server health test checks that the filesystem containing the log directory of this Sentry Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Sentry Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES



## Log Directory Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

log\_directory\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## Sentry Server Process Status

This Sentry Server health test checks that the Cloudera Manager Agent on the Sentry Server host is heart beating correctly and that the process associated with the Sentry Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Sentry Server process, a lack of connectivity to the Cloudera Manager Agent on the Sentry Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Sentry Server has crashed or because the Sentry Server will not start or stop in a timely fashion. Check the Sentry Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Sentry Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Sentry Server host, or look in the Cloudera Manager Agent logs on the Sentry Server host for more details. This test can be enabled or disabled using the Sentry Server Process Health Test Sentry Server monitoring setting.

Short Name: Process Status

## Sentry Server Process Health Test

### Description

Enables the health test that the Sentry Server's process state is consistent with the role configuration

### Template Name

sentry\_server\_scm\_health\_enabled

### Default Value

true

### Unit(s)

no unit

## Sentry Server Swap Memory Usage

This Sentry Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

## Process Swap Memory Thresholds

### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

### Template Name

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Sentry Server Swap Memory Usage Rate Beta

This Sentry Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Sentry Server Unexpected Exits

This Sentry Server health test checks that the Sentry Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Sentry Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

|                      |                         |
|----------------------|-------------------------|
|                      | unexpected_exits_window |
| <b>Default Value</b> | 5                       |
| <b>Unit(s)</b>       | MINUTES                 |

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Service Monitor Health Tests

### Service Monitor Audit Pipeline Test

This Service Monitor health test checks that the Auditing for the Service Monitor role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Service Monitor process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Service Monitor host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Service Monitor monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Service Monitor Cloudera Manager Descriptor Age**

This is a Service Monitor health test that checks if the Cloudera Manager descriptor has been refreshed recently. The Cloudera Manager descriptor is used to pass configuration information from the Cloudera Manager Server to the Service Monitor. If the descriptor becomes stale, Service Monitor operation may be impacted because the Service Monitor will receive information about new hosts, roles, and services, or changes to existing hosts, roles, and services. A stale descriptor usually indicates problems communicating with the Cloudera Manager Server but can also indicate performance problems or a bug. Consult the Service Monitor log and the Cloudera Manager Server log for more information. This test can be configured using the Cloudera Manager Descriptor Age Thresholds Cloudera Manager Service Monitor setting.

Short Name: Cloudera Manager Descriptor Age

**Cloudera Manager Descriptor Age Thresholds****Description**

The health test thresholds for monitoring the time since the Cloudera Manager descriptor was last refreshed.

**Template Name**

scm\_descriptor\_age\_thresholds

**Default Value**

critical:120000.0, warning:60000.0

**Unit(s)**

no unit

**Service Monitor Cloudera Manager Metric Schema Age**

This is a Service Monitor health test that checks if the Cloudera Manager metric schema has been refreshed recently. If the metric schema becomes stale, Service Monitor operation may be impacted because the Service Monitor will not receive information about new metrics and changes to existing metrics. A stale metric schema usually indicates problems communicating with the Cloudera Manager Server but can also indicate performance problems or a bug. Consult the Service Monitor log and the Cloudera Manager Server log for more information. This test can be configured using the Cloudera Manager Metric Schema Age Thresholds Cloudera Manager Service Monitor setting.

Short Name: Cloudera Manager Metric Schema Age

### Cloudera Manager Metric Schema Age Thresholds

#### Description

The health test thresholds for monitoring the time since the Cloudera Manager metric schema was last refreshed.

#### Template Name

metric\_schema\_age\_thresholds\_name

#### Default Value

critical:120000.0, warning:60000.0

#### Unit(s)

no unit

### Service Monitor File Descriptors

This Service Monitor health test checks that the number of file descriptors used does not rise above some percentage of the Service Monitor file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Service Monitor monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

servicemonitor\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

### Service Monitor Heap Dump Directory Free Space

This Service Monitor health test checks that the filesystem containing the heap dump directory of this Service Monitor has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Service Monitor monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Service Monitor Heap Size

This Service Monitor health test checks that the Service Monitor heap size is adequate for the role. Consider increasing the heap when it is in critical state. A failure of this health test may indicate that the Service Monitor is not getting the optimal heap size. Inspect the Service Monitor logs for any pause monitor output, check garbage collection metrics exposed by the Service Monitor and check the number of entities monitored by Service Monitor on Cloudera Management Service Status page. This test can be configured using the Heap Size Thresholds Service Monitor monitoring settings.

Short Name: Heap Size

#### Heap Size Thresholds

##### Description

The health test thresholds for the heap used.

##### Template Name

servicemonitor\_heap\_size\_thresholds

##### Default Value

critical:95.0, warning:90.0

##### Unit(s)

PERCENT

### Service Monitor Host Health

This Service Monitor health test factors in the health of the host upon which the Service Monitor is running. A failure of this test means that the host running the Service Monitor is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Service Monitor Host Health Test Service Monitor monitoring setting.

Short Name: Host Health

#### Service Monitor Host Health Test

##### Description

When computing the overall Service Monitor health, consider the host's health.

##### Template Name

servicemonitor\_host\_health\_enabled

##### Default Value

true

##### Unit(s)

no unit

## Service Monitor Log Directory Free Space

This Service Monitor health test checks that the filesystem containing the log directory of this Service Monitor has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Service Monitor monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value



critical:never, warning:never

#### Unit(s)

PERCENT

## Service Monitor Metrics Aggregation Run Duration Test

This is a Service Monitor health test that checks whether Cloudera Manager's aggregation run durations are within the thresholds. If the test fails, Service Monitor operation may be impacted because the Service Monitor is not able to process the metrics fast enough. You can also turn off "Enable Metric Collection" setting for services that generate lot of metrics such as Hbase, Solr etc.. This test can be configured using the Metrics Aggregation Run Duration Thresholds Cloudera Manager Service Monitor setting.

It is safe to increase these thresholds if a Concerning  or Bad  status is reported often, as long as they remain less than or equal to the aggregation period (one minute by default). If other measures have failed to address the issue satisfactorily, then Cloudera recommends setting the critical threshold to 60 seconds, and the warning threshold to 45 seconds.

Short Name: Metrics Aggregation Run Duration Test

### Metrics Aggregation Run Duration Thresholds

#### Description

The health test thresholds for monitoring the metrics aggregation run duration.

**Template Name**

aggregation\_run\_duration\_thresholds

**Default Value**

critical:30000.0, warning:10000.0

**Unit(s)**

MILLISECONDS

## Service Monitor Pause Duration

This Service Monitor health test checks that the Service Monitor threads are not experiencing long scheduling pauses. The test uses a pause monitoring thread in the Service Monitor that tracks scheduling delay by noting if it is run on its requested schedule. If the thread is not run on its requested schedule, the delay is noted and considered pause time. The health test checks that no more than some percentage of recent time is spent paused. A failure of this health test may indicate that the Service Monitor is not getting enough CPU resources, or that it is spending too much time doing garbage collection. Inspect the Service Monitor logs for any pause monitor output and check garbage collection metrics exposed by the Service Monitor. This test can be configured using the Pause Duration Thresholds and Pause Duration Monitoring Period Service Monitor monitoring settings.

Short Name: Pause Duration

### Pause Duration Monitoring Period

**Description**

The period to review when computing the moving average of extra time the pause monitor spent paused.

**Template Name**

servicemonitor\_pause\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Pause Duration Thresholds

**Description**

The health test thresholds for the weighted average extra time the pause monitor spent paused. Specified as a percentage of elapsed wall clock time.

**Template Name**

servicemonitor\_pause\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## Service Monitor Process Status

This Service Monitor health test checks that the Cloudera Manager Agent on the Service Monitor host is heart beating correctly and that the process associated with the Service Monitor role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Service Monitor process, a lack of connectivity to the Cloudera Manager Agent on the Service Monitor host, or a problem with the Cloudera Manager Agent. This test can fail either because the Service Monitor has crashed or because the Service Monitor will not start or stop in a timely fashion. Check the Service Monitor logs for more details. If the test fails because of problems communicating



with the Cloudera Manager Agent on the Service Monitor host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Service Monitor host, or look in the Cloudera Manager Agent logs on the Service Monitor host for more details. This test can be enabled or disabled using the Service Monitor Process Health Test Service Monitor monitoring setting.

Short Name: Process Status

### Service Monitor Process Health Test

#### Description

Enables the health test that the Service Monitor's process state is consistent with the role configuration

#### Template Name

`servicemonitor_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Service Monitor Role Pipeline

This Service Monitor health test checks that no messages are being dropped by the role stage of the Service Monitor pipeline. A failure of this health test indicates a problem with the Service Monitor. This may indicate a configuration problem or a bug in the Service Monitor. This test can be configured using the Service Monitor Role Pipeline Monitoring Time Period monitoring setting.

Short Name: Role Pipeline

### Service Monitor Role Pipeline Monitoring Thresholds

#### Description

The health test thresholds for monitoring the Service Monitor role pipeline. This specifies the number of dropped messages that will be tolerated over the monitoring time period.

#### Template Name

`servicemonitor_role_pipeline_thresholds`

#### Default Value

`critical:any, warning:never`

#### Unit(s)

`no unit`

### Service Monitor Role Pipeline Monitoring Time Period

#### Description

The time period over which the Service Monitor role pipeline will be monitored for dropped messages.

#### Template Name

`servicemonitor_role_pipeline_window`

#### Default Value

`5`

#### Unit(s)

`MINUTES`

## Service Monitor Service Monitor Storage Directory Free Space

This is a Service Monitor health test that checks that the filesystem containing the Service Monitor Storage Directory of this Service Monitor has sufficient free space. See the Service Monitor Storage Directory description on the Service Monitor configuration page for more information on this directory type. This test can be configured using the Service Monitor Storage Directory Free Space Monitoring Absolute Thresholds and Service Monitor Storage Directory Free Space Monitoring Percentage Thresholds Service Monitor monitoring settings.

Short Name: Service Monitor Storage Directory Free Space

### Service Monitor Storage Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Service Monitor Storage Directory.

#### Template Name

firehose\_storage\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Service Monitor Storage Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Service Monitor Storage Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Service Monitor Storage Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

firehose\_storage\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Service Monitor Swap Memory Usage

This Service Monitor health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

**Unit(s)**

BYTES

## Service Monitor Swap Memory Usage Rate Beta

This Service Monitor health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

```
process_swap_memory_rate_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

```
process_swap_memory_rate_window
```

**Default Value**

```
5
```

**Unit(s)**

MINUTES

## Service Monitor Unexpected Exits

This Service Monitor health test checks that the Service Monitor has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Service Monitor monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

```
unexpected_exits_window
```

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**`unexpected_exits_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**Service Monitor Web Server Status**

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Service Monitor, a misconfiguration of the Service Monitor, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Service Monitor for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Service Monitor's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Service Monitor's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Service Monitor monitoring setting.

Short Name: Web Server Status

**Web Metric Collection****Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**`servicemonitor_web_metric_collection_enabled`**Default Value**

true

**Unit(s)**

no unit

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**`servicemonitor_web_metric_collection_thresholds`**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## Solr Health Tests

### Solr Server Health

This is a Solr service-level health test that checks that enough of the Solr Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Solr Servers falls below a warning threshold, expressed as a percentage of the total number of Solr Servers. The test returns "Bad" health if the number of healthy and "Concerning" Solr Servers falls below a critical threshold, expressed as a percentage of the total number of Solr Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Solr Servers, this test would return "Good" health if 95 or more Solr Servers have good health. This test would return "Concerning" health if at least 90 Solr Servers have either "Good" or "Concerning" health. If more than 10 Solr Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Solr Servers. Check the status of the individual Solr Servers for more information. This test can be configured using the Solr Solr service-wide monitoring setting.

Short Name: Solr Server Health

#### Healthy Solr Server Monitoring Thresholds

##### Description

The health test thresholds of the overall Solr Server health. The check returns "Concerning" health if the percentage of "Healthy" Solr Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Solr Servers falls below the critical threshold.

##### Template Name

`solr_solr_servers_healthy_thresholds`

##### Default Value

`critical:90.0, warning:95.0`

##### Unit(s)

PERCENT

## Solr Server Health Tests

### Solr Server Audit Pipeline Test

This Solr Server health test checks that the Auditing for the Solr Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Solr Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Solr Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Solr Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

`mgmt_navigator_failure_window`

##### Default Value

|                |         |
|----------------|---------|
|                | 20      |
| <b>Unit(s)</b> | MINUTES |

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

## Solr Server File Descriptors

This Solr Server health test checks that the number of file descriptors used does not rise above some percentage of the Solr Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Solr Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`solr_server_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Solr Server GC Duration

This Solr Server health test checks that the Solr Server is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the Solr Server. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period Solr Server monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

`solr_server_gc_duration_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

`solr_server_gc_duration_thresholds`

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

### Solr Server Heap Dump Directory Free Space

This Solr Server health test checks that the filesystem containing the heap dump directory of this Solr Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Solr Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

`heap_dump_directory_free_space_absolute_thresholds`

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### Solr Server Host Health

This Solr Server health test factors in the health of the host upon which the Solr Server is running. A failure of this test means that the host running the Solr Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Solr Server Host Health Test Solr Server monitoring setting.

Short Name: Host Health

#### Solr Server Host Health Test

##### Description

When computing the overall Solr Server health, consider the host's health.

##### Template Name

solr\_server\_host\_health\_enabled

##### Default Value

true

##### Unit(s)

no unit

### Solr Server Log Directory Free Space

This Solr Server health test checks that the filesystem containing the log directory of this Solr Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Solr Server monitoring settings.

Short Name: Log Directory Free Space

#### Log Directory Free Space Monitoring Absolute Thresholds

##### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

##### Template Name

log\_directory\_free\_space\_absolute\_thresholds

##### Default Value

critical:5.36870912E9, warning:1.073741824E10

##### Unit(s)

BYTES



## Log Directory Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

log\_directory\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## Solr Server Process Status

This Solr Server health test checks that the Cloudera Manager Agent on the Solr Server host is heart beating correctly and that the process associated with the Solr Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Solr Server process, a lack of connectivity to the Cloudera Manager Agent on the Solr Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Solr Server has crashed or because the Solr Server will not start or stop in a timely fashion. Check the Solr Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Solr Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Solr Server host, or look in the Cloudera Manager Agent logs on the Solr Server host for more details. This test can be enabled or disabled using the Solr Server Process Health Test Solr Server monitoring setting.

Short Name: Process Status

## Solr Server Process Health Test

### Description

Enables the health test that the Solr Server's process state is consistent with the role configuration

### Template Name

solr\_server\_scm\_health\_enabled

### Default Value

true

### Unit(s)

no unit

## Solr Server Solr Server API Liveness

This is a Solr Server health test that checks that the Solr Server is responding quickly to API requests by the Cloudera Manager Agent to collect the status of the Solr Server's Solr cores. A failure of this health test may indicate a problem with the Solr Server, a misconfiguration of the Solr Server or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Solr Server for more details. If the test's failure message indicates a communication problem, this means that the Cloudera Manager Agent's HTTP requests to the Solr Server are failing or timing out. These requests are completely local to the Solr Server's host, and so should never fail under normal conditions. If the test's failure message indicates an unexpected response, then the Solr Server responded to the Cloudera Manager Agent's request, but the Cloudera Manager Agent could not interpret the response for some reason. This test can be enabled or disabled using the Solr Server API Liveness Solr Server monitoring setting and can be configured using the Solr Server API Liveness Request Duration monitoring setting.

Short Name: Solr Server API Liveness

### Solr Server API Liveness

**Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather status of Solr Cores from the Solr Server with a simple API request.

**Template Name**

solr\_core\_status\_collection\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

### Solr Server API Liveness Request Duration

**Description**

The health test thresholds on the duration of the Solr Server API request.

**Template Name**

solr\_core\_status\_collection\_thresholds

**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## Solr Server Swap Memory Usage

This Solr Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Solr Server Swap Memory Usage Rate Beta

This Solr Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Solr Server Unexpected Exits**

This Solr Server health test checks that the Solr Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Solr Server monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Solr Server Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Solr Server, a misconfiguration of the Solr Server, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Solr Server for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Solr Server's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Solr Server's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Solr Server monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

`solr_server_web_metric_collection_enabled`

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

`solr_server_web_metric_collection_thresholds`

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Spark Health Tests

### Spark History Server Health

This Spark service-level health test checks for the presence of a running, healthy History Server. The test returns "Bad" health if the service is running and the History Server is not running. In all other cases it returns the health of the History Server. A failure of this health test indicates a stopped or unhealthy History Server. Check the status of the History Server for more information. This test can be enabled or disabled using the History Server Role Health Test History Server service-wide monitoring setting.

Short Name: History Server Health

**History Server Role Health Test****Description**

When computing the overall SPARK\_ON\_YARN health, consider History Server's health

**Template Name**

SPARK\_ON\_YARN\_SPARK\_YARN\_HISTORY\_SERVER\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Spark 3 Health Tests

### Spark 3 History Server Health

This Spark 3 service-level health test checks for the presence of a running, healthy History Server. The test returns "Bad" health if the service is running and the History Server is not running. In all other cases it returns the health of the History Server. A failure of this health test indicates a stopped or unhealthy History Server. Check the status of the History Server for more information. This test can be enabled or disabled using the History Server Role Health Test History Server service-wide monitoring setting.

Short Name: History Server Health

**History Server Role Health Test****Description**

When computing the overall SPARK3\_ON\_YARN health, consider History Server's health

**Template Name**

SPARK3\_ON\_YARN\_SPARK3\_YARN\_HISTORY\_SERVER\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Sqoop 2 Health Tests

### Sqoop 2 Server Health

This Sqoop 2 service-level health test checks for the presence of a running, healthy Sqoop 2 Server. The test returns "Bad" health if the service is running and the Sqoop 2 Server is not running. In all other cases it returns the health of the Sqoop 2 Server. A failure of this health test indicates a stopped or unhealthy Sqoop 2 Server. Check the status of the Sqoop 2 Server for more information. This test can be enabled or disabled using the Sqoop 2 Server Role Health Test Sqoop 2 Server service-wide monitoring setting.

Short Name: Sqoop 2 Server Health

**Sqoop 2 Server Role Health Test****Description**

When computing the overall SGOOP health, consider Sqoop 2 Server's health

**Template Name**

|                      |                                   |
|----------------------|-----------------------------------|
|                      | sqoop_sqoop_server_health_enabled |
| <b>Default Value</b> | true                              |
| <b>Unit(s)</b>       | no unit                           |

## Sqoop 2 Server Health Tests

### Sqoop 2 Server Audit Pipeline Test

This Sqoop 2 Server health test checks that the Auditing for the Sqoop 2 Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Sqoop 2 Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Sqoop 2 Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Sqoop 2 Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Sqoop 2 Server File Descriptors

This Sqoop 2 Server health test checks that the number of file descriptors used does not rise above some percentage of the Sqoop 2 Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Sqoop 2 Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

sqoop\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Sqoop 2 Server Heap Dump Directory Free Space

This Sqoop 2 Server health test checks that the filesystem containing the heap dump directory of this Sqoop 2 Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Sqoop 2 Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

**Template Name**

heap\_dump\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

heap\_dump\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Sqoop 2 Server Host Health

This Sqoop 2 Server health test factors in the health of the host upon which the Sqoop 2 Server is running. A failure of this test means that the host running the Sqoop 2 Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Sqoop 2 Server Host Health Test Sqoop 2 Server monitoring setting.

Short Name: Host Health

### Sqoop 2 Server Host Health Test

**Description**

When computing the overall Sqoop 2 Server health, consider the host's health.

**Template Name**

sqoop\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Sqoop 2 Server Log Directory Free Space

This Sqoop 2 Server health test checks that the filesystem containing the log directory of this Sqoop 2 Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Sqoop 2 Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.



**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

## Sqoop 2 Server Process Status

This Sqoop 2 Server health test checks that the Cloudera Manager Agent on the Sqoop 2 Server host is heart beating correctly and that the process associated with the Sqoop 2 Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Sqoop 2 Server process, a lack of connectivity to the Cloudera Manager Agent on the Sqoop 2 Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Sqoop 2 Server has crashed or because the Sqoop 2 Server will not start or stop in a timely fashion. Check the Sqoop 2 Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Sqoop 2 Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Sqoop 2 Server host, or look in the Cloudera Manager Agent logs on the Sqoop 2 Server host for more details. This test can be enabled or disabled using the Sqoop 2 Server Process Health Test Sqoop 2 Server monitoring setting.

Short Name: Process Status

### Sqoop 2 Server Process Health Test

**Description**

Enables the health test that the Sqoop 2 Server's process state is consistent with the role configuration

**Template Name**

sqoop\_server\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Sqoop 2 Server Swap Memory Usage

This Sqoop 2 Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Sqoop 2 Server Swap Memory Usage Rate Beta

This Sqoop 2 Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Sqoop 2 Server Unexpected Exits

This Sqoop 2 Server health test checks that the Sqoop 2 Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Sqoop 2 Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

`unexpected_exits_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Storage Container Manager Health Tests

### Storage Container Manager Audit Pipeline Test

This Storage Container Manager health test checks that the Auditing for the Storage Container Manager role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Storage Container Manager process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Storage Container Manager host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Storage Container Manager monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

`mgmt_navigator_failure_window`

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

`mgmt_navigator_failure_thresholds`

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Storage Container Manager File Descriptors**

This Storage Container Manager health test checks that the number of file descriptors used does not rise above some percentage of the Storage Container Manager file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Storage Container Manager monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

storage\_container\_manager\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Storage Container Manager Host Health**

This Storage Container Manager health test factors in the health of the host upon which the Storage Container Manager is running. A failure of this test means that the host running the Storage Container Manager is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Storage Container Manager Host Health Test Storage Container Manager monitoring setting.

Short Name: Host Health

**Storage Container Manager Host Health Test****Description**

When computing the overall Storage Container Manager health, consider the host's health.

**Template Name**

storage\_container\_manager\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Storage Container Manager Log Directory Free Space

This Storage Container Manager health test checks that the filesystem containing the log directory of this Storage Container Manager has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Storage Container Manager monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Storage Container Manager Ozone SCM Safemode Canary

If Ozone SCM is in safemode, it means the Ozone cluster is not ready. Either due to there being not enough registered Ozone DataNodes, or a minimum percentage of container replica has not been reported by the DataNodes.

Short Name: Ozone SCM Safemode Canary

## Storage Container Manager Ozone SCM Upgrade Need Finalization Canary

If this canary shows unhealthy, it indicates that Ozone SCM's metadata layout version is lower than the capable software layout version. This typically means Ozone SCM hasn't been finalized after an upgrade yet. Some new features won't be available unless finalized.

Short Name: Ozone SCM Upgrade Need Finalization Canary

## Storage Container Manager Process Status

This Storage Container Manager health test checks that the Cloudera Manager Agent on the Storage Container Manager host is heart beating correctly and that the process associated with the Storage Container Manager role is

in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Storage Container Manager process, a lack of connectivity to the Cloudera Manager Agent on the Storage Container Manager host, or a problem with the Cloudera Manager Agent. This test can fail either because the Storage Container Manager has crashed or because the Storage Container Manager will not start or stop in a timely fashion. Check the Storage Container Manager logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Storage Container Manager host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Storage Container Manager host, or look in the Cloudera Manager Agent logs on the Storage Container Manager host for more details. This test can be enabled or disabled using the Storage Container Manager Process Health Test Storage Container Manager monitoring setting.

Short Name: Process Status

### Storage Container Manager Process Health Test

#### Description

Enables the health test that the Storage Container Manager's process state is consistent with the role configuration

#### Template Name

`storage_container_manager_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

### Storage Container Manager Swap Memory Usage

This Storage Container Manager health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

### Storage Container Manager Swap Memory Usage Rate Beta

This Storage Container Manager health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Storage Container Manager Unexpected Exits**

This Storage Container Manager health test checks that the Storage Container Manager has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Storage Container Manager monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Streaming SQL Console Health Tests

### Streaming SQL Console Audit Pipeline Test

This Streaming SQL Console health test checks that the Auditing for the Streaming SQL Console role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Streaming SQL Console process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Streaming SQL Console host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Streaming SQL Console monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true



**Unit(s)**

no unit

## Streaming SQL Console File Descriptors

This Streaming SQL Console health test checks that the number of file descriptors used does not rise above some percentage of the Streaming SQL Console file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Streaming SQL Console monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

streaming\_sql\_console\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Streaming SQL Console Host Health

This Streaming SQL Console health test factors in the health of the host upon which the Streaming SQL Console is running. A failure of this test means that the host running the Streaming SQL Console is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Streaming SQL Console Host Health Test Streaming SQL Console monitoring setting.

Short Name: Host Health

### Streaming SQL Console Host Health Test

**Description**

When computing the overall Streaming SQL Console health, consider the host's health.

**Template Name**

streaming\_sql\_console\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Streaming SQL Console Log Directory Free Space

This Streaming SQL Console health test checks that the filesystem containing the log directory of this Streaming SQL Console has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Streaming SQL Console monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Streaming SQL Console Process Status

This Streaming SQL Console health test checks that the Cloudera Manager Agent on the Streaming SQL Console host is heart beating correctly and that the process associated with the Streaming SQL Console role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Streaming SQL Console process, a lack of connectivity to the Cloudera Manager Agent on the Streaming SQL Console host, or a problem with the Cloudera Manager Agent. This test can fail either because the Streaming SQL Console has crashed or because the Streaming SQL Console will not start or stop in a timely fashion. Check the Streaming SQL Console logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Streaming SQL Console host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Streaming SQL Console host, or look in the Cloudera Manager Agent logs on the Streaming SQL Console host for more details. This test can be enabled or disabled using the Streaming SQL Console Process Health Test Streaming SQL Console monitoring setting.

Short Name: Process Status

### Streaming SQL Console Process Health Test

#### Description

Enables the health test that the Streaming SQL Console's process state is consistent with the role configuration

#### Template Name

streaming\_sql\_console\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Streaming SQL Console Swap Memory Usage

This Streaming SQL Console health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## Streaming SQL Console Swap Memory Usage Rate Beta

This Streaming SQL Console health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Streaming SQL Console Unexpected Exits

This Streaming SQL Console health test checks that the Streaming SQL Console has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Streaming SQL Console monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Streaming SQL Engine Health Tests

### Streaming SQL Engine Audit Pipeline Test

This Streaming SQL Engine health test checks that the Auditing for the Streaming SQL Engine role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Streaming SQL Engine process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Streaming SQL Engine host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Streaming SQL Engine monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Streaming SQL Engine File Descriptors**

This Streaming SQL Engine health test checks that the number of file descriptors used does not rise above some percentage of the Streaming SQL Engine file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Streaming SQL Engine monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

streaming\_sql\_engine\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Streaming SQL Engine Host Health

This Streaming SQL Engine health test factors in the health of the host upon which the Streaming SQL Engine is running. A failure of this test means that the host running the Streaming SQL Engine is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Streaming SQL Engine Host Health Test Streaming SQL Engine monitoring setting.

Short Name: Host Health

### Streaming SQL Engine Host Health Test

#### Description

When computing the overall Streaming SQL Engine health, consider the host's health.

#### Template Name

streaming\_sql\_engine\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Streaming SQL Engine Log Directory Free Space

This Streaming SQL Engine health test checks that the filesystem containing the log directory of this Streaming SQL Engine has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Streaming SQL Engine monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Streaming SQL Engine Process Status

This Streaming SQL Engine health test checks that the Cloudera Manager Agent on the Streaming SQL Engine host is heart beating correctly and that the process associated with the Streaming SQL Engine role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Streaming SQL Engine process, a lack of connectivity to the Cloudera Manager Agent on the Streaming SQL Engine host, or a problem with the Cloudera Manager Agent. This test can fail either because the Streaming SQL Engine has crashed or because the Streaming SQL Engine will not start or stop in a timely fashion. Check the Streaming SQL Engine logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Streaming SQL Engine host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Streaming SQL Engine host, or look in the Cloudera Manager Agent logs on the Streaming SQL Engine host for more details. This test can be enabled or disabled using the Streaming SQL Engine Process Health Test Streaming SQL Engine monitoring setting.

Short Name: Process Status

### Streaming SQL Engine Process Health Test

#### Description

Enables the health test that the Streaming SQL Engine's process state is consistent with the role configuration

#### Template Name

`streaming_sql_engine_scm_health_enabled`

#### Default Value

`true`

#### Unit(s)

`no unit`

## Streaming SQL Engine Swap Memory Usage

This Streaming SQL Engine health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

`critical:never, warning:200.0`

#### Unit(s)

`BYTES`

## Streaming SQL Engine Swap Memory Usage Rate Beta

This Streaming SQL Engine health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Streaming SQL Engine Unexpected Exits

This Streaming SQL Engine health test checks that the Streaming SQL Engine has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Streaming SQL Engine monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.



|                      |                             |
|----------------------|-----------------------------|
| <b>Template Name</b> | unexpected_exits_thresholds |
| <b>Default Value</b> | critical:any, warning:never |
| <b>Unit(s)</b>       | no unit                     |

## Streams Messaging Manager Health Tests

### Streams Messaging Manager Rest Admin Server Health

This Streams Messaging Manager service-level health test checks for the presence of a running, healthy Streams Messaging Manager Rest Admin Server. The test returns "Bad" health if the service is running and the Streams Messaging Manager Rest Admin Server is not running. In all other cases it returns the health of the Streams Messaging Manager Rest Admin Server. A failure of this health test indicates a stopped or unhealthy Streams Messaging Manager Rest Admin Server. Check the status of the Streams Messaging Manager Rest Admin Server for more information. This test can be enabled or disabled using the Streams Messaging Manager Rest Admin Server Role Health Test Streams Messaging Manager Rest Admin Server service-wide monitoring setting.

Short Name: Streams Messaging Manager Rest Admin Server Health

#### Streams Messaging Manager Rest Admin Server Role Health Test

|                      |  |
|----------------------|--|
| <b>Description</b>   | When computing the overall STREAMS_MESSAGING_MANAGER health, consider Streams Messaging Manager Rest Admin Server's health |
| <b>Template Name</b> | STREAMS_MESSAGING_MANAGER_STREAMS_MESSAGING_MANAGER_SERVER_health_enabled  |
| <b>Default Value</b> | true   |
| <b>Unit(s)</b>       | no unit  |

### Streams Messaging Manager UI Server Health

This Streams Messaging Manager service-level health test checks for the presence of a running, healthy Streams Messaging Manager UI Server. The test returns "Bad" health if the service is running and the Streams Messaging Manager UI Server is not running. In all other cases it returns the health of the Streams Messaging Manager UI Server. A failure of this health test indicates a stopped or unhealthy Streams Messaging Manager UI Server. Check the status of the Streams Messaging Manager UI Server for more information. This test can be enabled or disabled using the Streams Messaging Manager UI Server Role Health Test Streams Messaging Manager UI Server service-wide monitoring setting.

Short Name: Streams Messaging Manager UI Server Health

#### Streams Messaging Manager UI Server Role Health Test

|                      |  |
|----------------------|--|
| <b>Description</b>   | When computing the overall STREAMS_MESSAGING_MANAGER health, consider Streams Messaging Manager UI Server's health |
| <b>Template Name</b> | STREAMS_MESSAGING_MANAGER_STREAMS_MESSAGING_MANAGER_UI_health_enabled  |

**Default Value**

true

**Unit(s)**

no unit

## Streams Messaging Manager Rest Admin Server Health Tests

### Streams Messaging Manager Rest Admin Server Audit Pipeline Test

This Streams Messaging Manager Rest Admin Server health test checks that the Auditing for the Streams Messaging Manager Rest Admin Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Streams Messaging Manager Rest Admin Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Streams Messaging Manager Rest Admin Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Streams Messaging Manager Rest Admin Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Streams Messaging Manager Rest Admin Server File Descriptors

This Streams Messaging Manager Rest Admin Server health test checks that the number of file descriptors used does not rise above some percentage of the Streams Messaging Manager Rest Admin Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Streams Messaging Manager Rest Admin Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

streams\_messaging\_manager\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Streams Messaging Manager Rest Admin Server Host Health

This Streams Messaging Manager Rest Admin Server health test factors in the health of the host upon which the Streams Messaging Manager Rest Admin Server is running. A failure of this test means that the host running the Streams Messaging Manager Rest Admin Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Streams Messaging Manager Rest Admin Server Host Health Test Streams Messaging Manager Rest Admin Server monitoring setting.

Short Name: Host Health

### Streams Messaging Manager Rest Admin Server Host Health Test

**Description**

When computing the overall Streams Messaging Manager Rest Admin Server health, consider the host's health.

**Template Name**

streams\_messaging\_manager\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Streams Messaging Manager Rest Admin Server Log Directory Free Space

This Streams Messaging Manager Rest Admin Server health test checks that the filesystem containing the log directory of this Streams Messaging Manager Rest Admin Server has sufficient free space. This test can be

configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Streams Messaging Manager Rest Admin Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Streams Messaging Manager Rest Admin Server Process Status

This Streams Messaging Manager Rest Admin Server health test checks that the Cloudera Manager Agent on the Streams Messaging Manager Rest Admin Server host is heart beating correctly and that the process associated with the Streams Messaging Manager Rest Admin Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Streams Messaging Manager Rest Admin Server process, a lack of connectivity to the Cloudera Manager Agent on the Streams Messaging Manager Rest Admin Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Streams Messaging Manager Rest Admin Server has crashed or because the Streams Messaging Manager Rest Admin Server will not start or stop in a timely fashion. Check the Streams Messaging Manager Rest Admin Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Streams Messaging Manager Rest Admin Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Streams Messaging Manager Rest Admin Server host, or look in the Cloudera Manager Agent logs on the Streams Messaging Manager Rest Admin Server host for more details. This test can be enabled or disabled using the Streams Messaging Manager Rest Admin Server Process Health Test Streams Messaging Manager Rest Admin Server monitoring setting.

Short Name: Process Status

### Streams Messaging Manager Rest Admin Server Process Health Test

#### Description

Enables the health test that the Streams Messaging Manager Rest Admin Server's process state is consistent with the role configuration

**Template Name**

streams\_messaging\_manager\_server\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Streams Messaging Manager Rest Admin Server Swap Memory Usage

This Streams Messaging Manager Rest Admin Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Streams Messaging Manager Rest Admin Server Swap Memory Usage Rate Beta

This Streams Messaging Manager Rest Admin Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

|                      |                                 |
|----------------------|---------------------------------|
|                      | process_swap_memory_rate_window |
| <b>Default Value</b> | 5                               |
| <b>Unit(s)</b>       | MINUTES                         |

## Streams Messaging Manager Rest Admin Server Unexpected Exits

This Streams Messaging Manager Rest Admin Server health test checks that the Streams Messaging Manager Rest Admin Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Streams Messaging Manager Rest Admin Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Streams Messaging Manager UI Server Health Tests

### Streams Messaging Manager UI Server Audit Pipeline Test

This Streams Messaging Manager UI Server health test checks that the Auditing for the Streams Messaging Manager UI Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Streams Messaging Manager UI Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Streams Messaging Manager UI Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and

Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Streams Messaging Manager UI Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Streams Messaging Manager UI Server File Descriptors

This Streams Messaging Manager UI Server health test checks that the number of file descriptors used does not rise above some percentage of the Streams Messaging Manager UI Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Streams Messaging Manager UI Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

streams\_messaging\_manager\_ui\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Streams Messaging Manager UI Server Host Health

This Streams Messaging Manager UI Server health test factors in the health of the host upon which the Streams Messaging Manager UI Server is running. A failure of this test means that the host running the Streams Messaging Manager UI Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Streams Messaging Manager UI Server Host Health Test Streams Messaging Manager UI Server monitoring setting.

Short Name: Host Health

### Streams Messaging Manager UI Server Host Health Test

**Description**

When computing the overall Streams Messaging Manager UI Server health, consider the host's health.

**Template Name**

streams\_messaging\_manager\_ui\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Streams Messaging Manager UI Server Log Directory Free Space

This Streams Messaging Manager UI Server health test checks that the filesystem containing the log directory of this Streams Messaging Manager UI Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Streams Messaging Manager UI Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES



## Log Directory Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

log\_directory\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## Streams Messaging Manager UI Server Process Status

This Streams Messaging Manager UI Server health test checks that the Cloudera Manager Agent on the Streams Messaging Manager UI Server host is heart beating correctly and that the process associated with the Streams Messaging Manager UI Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Streams Messaging Manager UI Server process, a lack of connectivity to the Cloudera Manager Agent on the Streams Messaging Manager UI Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Streams Messaging Manager UI Server has crashed or because the Streams Messaging Manager UI Server will not start or stop in a timely fashion. Check the Streams Messaging Manager UI Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Streams Messaging Manager UI Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Streams Messaging Manager UI Server host, or look in the Cloudera Manager Agent logs on the Streams Messaging Manager UI Server host for more details. This test can be enabled or disabled using the Streams Messaging Manager UI Server Process Health Test Streams Messaging Manager UI Server monitoring setting.

Short Name: Process Status

## Streams Messaging Manager UI Server Process Health Test

### Description

Enables the health test that the Streams Messaging Manager UI Server's process state is consistent with the role configuration

### Template Name

streams\_messaging\_manager\_ui\_scm\_health\_enabled

### Default Value

true

### Unit(s)

no unit

## Streams Messaging Manager UI Server Swap Memory Usage

This Streams Messaging Manager UI Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

## Process Swap Memory Thresholds

### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

process\_swap\_memory\_thresholds

**Default Value**

critical:never, warning:200.0

**Unit(s)**

BYTES

## Streams Messaging Manager UI Server Swap Memory Usage Rate Beta

This Streams Messaging Manager UI Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

**Description**

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

**Template Name**

process\_swap\_memory\_rate\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

BYTES

### Swap Memory Usage Rate Window

**Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Streams Messaging Manager UI Server Unexpected Exits

This Streams Messaging Manager UI Server health test checks that the Streams Messaging Manager UI Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Streams Messaging Manager UI Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

**Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## Streams Replication Manager Health Tests

### Streams Replication Manager SRM Driver Health

This is a Streams Replication Manager service-level health test that checks that enough of the SRM Drivers in the cluster are healthy. The test returns "Concerning" health if the number of healthy SRM Drivers falls below a warning threshold, expressed as a percentage of the total number of SRM Drivers. The test returns "Bad" health if the number of healthy and "Concerning" SRM Drivers falls below a critical threshold, expressed as a percentage of the total number of SRM Drivers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 SRM Drivers, this test would return "Good" health if 95 or more SRM Drivers have good health. This test would return "Concerning" health if at least 90 SRM Drivers have either "Good" or "Concerning" health. If more than 10 SRM Drivers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy SRM Drivers. Check the status of the individual SRM Drivers for more information. This test can be configured using the Streams Replication Manager Streams Replication Manager service-wide monitoring setting.

Short Name: SRM Driver Health

### Healthy SRM Driver Monitoring Thresholds

**Description**

The health test thresholds of the overall SRM Driver health. The check returns "Concerning" health if the percentage of "Healthy" SRM Drivers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" SRM Drivers falls below the critical threshold.

**Template Name**

STREAMS\_REPLICATION\_MANAGER\_STREAMS\_REPLICATION\_MANAGER\_DRIVER\_healthy\_thresholds

**Default Value**

critical:49.99, warning:94.99

**Unit(s)**

PERCENT

## Streams Replication Manager SRM Service Health

This is a Streams Replication Manager service-level health test that checks that enough of the SRM Services in the cluster are healthy. The test returns "Concerning" health if the number of healthy SRM Services falls below a warning threshold, expressed as a percentage of the total number of SRM Services. The test returns "Bad" health if the number of healthy and "Concerning" SRM Services falls below a critical threshold, expressed as a percentage of the total number of SRM Services. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 SRM Services, this test would return "Good" health if 95 or more SRM Services have good health. This test would return "Concerning" health if at least 90 SRM Services have either "Good" or "Concerning" health. If more than 10 SRM Services have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy SRM Services. Check the status of the individual SRM Services for more information. This test can be configured using the Streams Replication Manager Streams Replication Manager service-wide monitoring setting.

Short Name: SRM Service Health

### Healthy SRM Service Monitoring Thresholds

**Description**

The health test thresholds of the overall SRM Service health. The check returns "Concerning" health if the percentage of "Healthy" SRM Services falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" SRM Services falls below the critical threshold.

**Template Name**

STREAMS\_REPLICATION\_MANAGER\_STREAMS\_REPLICATION\_MANAGER\_SERVICE\_healthy\_threshold

**Default Value**

critical:49.99, warning:94.99

**Unit(s)**

PERCENT

## Tablet Server Health Tests

### Tablet Server Audit Pipeline Test

This Tablet Server health test checks that the Auditing for the Tablet Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Tablet Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Tablet Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Tablet Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**Tablet Server Failed Data Directories**

Short Name: Failed Data Directories

**Tablet Server File Descriptors**

This Tablet Server health test checks that the number of file descriptors used does not rise above some percentage of the Tablet Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Tablet Server monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**`kudu_tserver_fd_thresholds`**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**Tablet Server Full Data Directories**

Short Name: Full Data Directories

**Tablet Server Host Health**

This Tablet Server health test factors in the health of the host upon which the Tablet Server is running. A failure of this test means that the host running the Tablet Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Tablet Server Host Health Test Tablet Server monitoring setting.

Short Name: Host Health

**Tablet Server Host Health Test****Description**

When computing the overall Tablet Server health, consider the host's health.

**Template Name**

kudu\_tserver\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Tablet Server Log Directory Free Space**

This Tablet Server health test checks that the filesystem containing the log directory of this Tablet Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Tablet Server monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

```
log_directory_free_space_percentage_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
PERCENT
```

## Tablet Server Process Status

This Tablet Server health test checks that the Cloudera Manager Agent on the Tablet Server host is heart beating correctly and that the process associated with the Tablet Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Tablet Server process, a lack of connectivity to the Cloudera Manager Agent on the Tablet Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Tablet Server has crashed or because the Tablet Server will not start or stop in a timely fashion. Check the Tablet Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Tablet Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Tablet Server host, or look in the Cloudera Manager Agent logs on the Tablet Server host for more details. This test can be enabled or disabled using the Tablet Server Process Health Test Tablet Server monitoring setting.

Short Name: Process Status

### Tablet Server Process Health Test

**Description**

Enables the health test that the Tablet Server's process state is consistent with the role configuration

**Template Name**

```
kudu_tserver_scm_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## Tablet Server Swap Memory Usage

This Tablet Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## Tablet Server Swap Memory Usage Rate Beta

This Tablet Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Tablet Server Unexpected Exits

This Tablet Server health test checks that the Tablet Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Tablet Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

`unexpected_exits_window`

#### Default Value

5

#### Unit(s)

MINUTES



### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

#### Template Name

`unexpected_exits_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## TaskTracker Health Tests

### TaskTracker Audit Pipeline Test

This TaskTracker health test checks that the Auditing for the TaskTracker role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of TaskTracker process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the TaskTracker host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check TaskTracker monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

`mgmt_navigator_failure_window`

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

### TaskTracker Blacklisted Status

This is a TaskTracker health test that checks that the JobTracker has not blacklisted the TaskTracker. A failure of this health test indicates that the JobTracker has blacklisted the TaskTracker because of the failure rate of tasks on the TaskTracker is significantly higher than the average cluster failure rate. Check the TaskTracker logs for more details. This test can be enabled or disabled using the TaskTracker Blacklisted Health Test TaskTracker monitoring setting.

Short Name: Blacklisted Status

### TaskTracker Blacklisted Health Test

**Description**

Enables the health test that the TaskTracker is not blacklisted

**Template Name**

tasktracker\_blacklisted\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

### TaskTracker File Descriptors

This TaskTracker health test checks that the number of file descriptors used does not rise above some percentage of the TaskTracker file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds TaskTracker monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

tasktracker\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## TaskTracker GC Duration

This TaskTracker health test checks that the TaskTracker is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the TaskTracker. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period TaskTracker monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

tasktracker\_gc\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

tasktracker\_gc\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

## TaskTracker Heap Dump Directory Free Space

This TaskTracker health test checks that the filesystem containing the heap dump directory of this TaskTracker has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds TaskTracker monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

### TaskTracker Host Health

This TaskTracker health test factors in the health of the host upon which the TaskTracker is running. A failure of this test means that the host running the TaskTracker is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the TaskTracker Host Health Test TaskTracker monitoring setting.

Short Name: Host Health

#### TaskTracker Host Health Test

##### Description

When computing the overall TaskTracker health, consider the host's health.

##### Template Name

tasktracker\_host\_health\_enabled

##### Default Value

true

##### Unit(s)

no unit

### TaskTracker JobTracker Connectivity

This is a TaskTracker health test that checks whether the JobTracker considers the TaskTracker alive. A failure of this health test may indicate that the TaskTracker is having trouble communicating with the JobTracker. Look in the TaskTracker logs for more details. This test can be enabled or disabled using the TaskTracker Connectivity Health Test TaskTracker monitoring setting. The TaskTracker Connectivity Tolerance at Startup TaskTracker monitoring setting and the Health Test Startup Tolerance JobTracker monitoring setting can be used to control the test's tolerance windows around TaskTracker and JobTracker restarts respectively.

Short Name: JobTracker Connectivity

#### Health Test Startup Tolerance

##### Description

The amount of time allowed after this role is started that failures of health tests that rely on communication with this role will be tolerated.

##### Template Name

jobtracker\_startup\_tolerance

##### Default Value

5

##### Unit(s)

MINUTES

**TaskTracker Connectivity Health Test****Description**

Enables the health test that the TaskTracker is connected to the JobTracker

**Template Name**

tasktracker\_connectivity\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**TaskTracker Connectivity Tolerance at Startup****Description**

The amount of time to wait for the TaskTracker to fully start up and connect to the JobTracker before enforcing the connectivity check.

**Template Name**

tasktracker\_connectivity\_tolerance

**Default Value**

180

**Unit(s)**

SECONDS

**TaskTracker Log Directory Free Space**

This TaskTracker health test checks that the filesystem containing the log directory of this TaskTracker has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds TaskTracker monitoring settings.

Short Name: Log Directory Free Space

**Log Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

```
log_directory_free_space_percentage_thresholds
```

**Default Value**

```
critical:never, warning:never
```

**Unit(s)**

```
PERCENT
```

## TaskTracker Process Status

This TaskTracker health test checks that the Cloudera Manager Agent on the TaskTracker host is heart beating correctly and that the process associated with the TaskTracker role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the TaskTracker process, a lack of connectivity to the Cloudera Manager Agent on the TaskTracker host, or a problem with the Cloudera Manager Agent. This test can fail either because the TaskTracker has crashed or because the TaskTracker will not start or stop in a timely fashion. Check the TaskTracker logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the TaskTracker host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the TaskTracker host, or look in the Cloudera Manager Agent logs on the TaskTracker host for more details. This test can be enabled or disabled using the TaskTracker Process Health Test TaskTracker monitoring setting.

Short Name: Process Status

### TaskTracker Process Health Test

**Description**

Enables the health test that the TaskTracker's process state is consistent with the role configuration

**Template Name**

```
tasktracker_scm_health_enabled
```

**Default Value**

```
true
```

**Unit(s)**

```
no unit
```

## TaskTracker Swap Memory Usage

This TaskTracker health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

**Description**

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

**Template Name**

```
process_swap_memory_thresholds
```

**Default Value**

```
critical:never, warning:200.0
```

**Unit(s)**

```
BYTES
```

## TaskTracker Swap Memory Usage Rate Beta

This TaskTracker health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## TaskTracker TaskTracker Local Data Directories Free Space

This is a TaskTracker health test that checks that the filesystem containing the TaskTracker Local Data Directories of this TaskTracker has sufficient free space. See the TaskTracker Local Data Directories description on the TaskTracker configuration page for more information on this directory type. This test can be configured using the TaskTracker Local Data Directories Free Space Monitoring Absolute Thresholds and TaskTracker Local Data Directories Free Space Monitoring Percentage Thresholds TaskTracker monitoring settings.

Short Name: TaskTracker Local Data Directories Free Space

### TaskTracker Local Data Directories Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's TaskTracker Local Data Directories.

#### Template Name

`tasktracker_local_data_directories_free_space_absolute_thresholds`

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

## TaskTracker Local Data Directories Free Space Monitoring Percentage Thresholds

### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's TaskTracker Local Data Directories. Specified as a percentage of the capacity on that filesystem. This setting is not used if a TaskTracker Local Data Directories Free Space Monitoring Absolute Thresholds setting is configured.

### Template Name

tasktracker\_local\_data\_directories\_free\_space\_percentage\_thresholds

### Default Value

critical:never, warning:never

### Unit(s)

PERCENT

## TaskTracker Unexpected Exits

This TaskTracker health test checks that the TaskTracker has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period TaskTracker monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## TaskTracker Web Server Status

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate



a problem with the web server of the TaskTracker, a misconfiguration of the TaskTracker, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the TaskTracker for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the TaskTracker's web server are failing or timing out. If the test's failure message indicates an unexpected response, the TaskTracker's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection TaskTracker monitoring setting.

Short Name: Web Server Status

### Web Metric Collection

#### Description

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

#### Template Name

tasktracker\_web\_metric\_collection\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Web Metric Collection Duration

#### Description

The health test thresholds on the duration of the metrics request to the web server.

#### Template Name

tasktracker\_web\_metric\_collection\_thresholds

#### Default Value

critical:never, warning:10000.0

#### Unit(s)

MILLISECONDS

## Telemetry Publisher Health Tests

### Telemetry Publisher Audit Pipeline Test

This Telemetry Publisher health test checks that the Auditing for the Telemetry Publisher role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Telemetry Publisher process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Telemetry Publisher host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Telemetry Publisher monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**`mgmt_navigator_failure_thresholds`**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**`mgmt_navigator_status_check_enabled`**Default Value**

true

**Unit(s)**

no unit

**Telemetry Publisher Data Export Test For Stream Hive-App**

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream HIVE-app. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Hive-App

**Metrics Data Export Failure Thresholds****Description**

The health test thresholds for monitoring the data export failure count.

**Template Name**`telemetrypublisher_data_export_failure_thresholds`**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

**Telemetry Publisher Data Export Monitoring Time Period****Description**

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

**Template Name**

telemetrypublisher\_data\_export\_failure\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Telemetry Publisher Data Export Test For Stream Hive-Query-Audits

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream HIVE-query-audits. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Hive-Query-Audits

### Metrics Data Export Failure Thresholds

**Description**

The health test thresholds for monitoring the data export failure count.

**Template Name**

telemetrypublisher\_data\_export\_failure\_thresholds

**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

### Telemetry Publisher Data Export Monitoring Time Period

**Description**

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

**Template Name**

telemetrypublisher\_data\_export\_failure\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Telemetry Publisher Data Export Test For Stream Hive-Tez-App

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream HIVE-tez-app. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Hive-Tez-App

### Metrics Data Export Failure Thresholds

**Description**

The health test thresholds for monitoring the data export failure count.

**Template Name**

telemetrypublisher\_data\_export\_failure\_thresholds

**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

**Telemetry Publisher Data Export Monitoring Time Period****Description**

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

**Template Name**

telemetrypublisher\_data\_export\_failure\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Telemetry Publisher Data Export Test For Stream Impala-Query-Profile**

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream IMPALA-query-profile. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Impala-Query-Profile

**Metrics Data Export Failure Thresholds****Description**

The health test thresholds for monitoring the data export failure count.

**Template Name**

telemetrypublisher\_data\_export\_failure\_thresholds

**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

**Telemetry Publisher Data Export Monitoring Time Period****Description**

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

**Template Name**

telemetrypublisher\_data\_export\_failure\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Telemetry Publisher Data Export Test For Stream Oozie-Workflows**

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream OOZIE-workflows. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Oozie-Workflows

### Metrics Data Export Failure Thresholds

#### Description

The health test thresholds for monitoring the data export failure count.

#### Template Name

telemetrypublisher\_data\_export\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Export Monitoring Time Period

#### Description

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

#### Template Name

telemetrypublisher\_data\_export\_failure\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Telemetry Publisher Data Export Test For Stream Spark2\_on\_yarn-Event-Log

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream SPARK2\_ON\_YARN-event-log. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Spark2\_on\_yarn-Event-Log

### Metrics Data Export Failure Thresholds

#### Description

The health test thresholds for monitoring the data export failure count.

#### Template Name

telemetrypublisher\_data\_export\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Export Monitoring Time Period

#### Description

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

#### Template Name

telemetrypublisher\_data\_export\_failure\_window

#### Default Value

5  
**Unit(s)**  
 MINUTES

## Telemetry Publisher Data Export Test For Stream Yarn-Apps

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream YARN-apps. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Yarn-Apps

### Metrics Data Export Failure Thresholds

#### Description

The health test thresholds for monitoring the data export failure count.

#### Template Name

telemetrypublisher\_data\_export\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Export Monitoring Time Period

#### Description

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

#### Template Name

telemetrypublisher\_data\_export\_failure\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Telemetry Publisher Data Export Test For Stream Yarn-Jhist

This is a Telemetry Publisher health test that checks whether data is exported successfully for stream YARN-jhist. A failure of this check indicates that one or more exports failed.

Short Name: Data Export Test For Stream Yarn-Jhist

### Metrics Data Export Failure Thresholds

#### Description

The health test thresholds for monitoring the data export failure count.

#### Template Name

telemetrypublisher\_data\_export\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Export Monitoring Time Period

#### Description

The time period over which the telemetry publisher data export for streams will be monitored for failed export.

#### Template Name

telemetrypublisher\_data\_export\_failure\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Telemetry Publisher Data Ingest Test For Stream Hive-App

This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream HIVE-app. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Hive-App

#### Metrics Data Ingest Failure Thresholds

#### Description

The health test thresholds for monitoring the data ingest failure count.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Ingest Monitoring Time Period

#### Description

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Telemetry Publisher Data Ingest Test For Stream Hive-Query-Audits

This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream HIVE-query-audits. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Hive-Query-Audits

#### Metrics Data Ingest Failure Thresholds

#### Description

The health test thresholds for monitoring the data ingest failure count.

**Template Name**

telemetrypublisher\_data\_ingest\_failure\_thresholds

**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

**Telemetry Publisher Data Ingest Monitoring Time Period****Description**

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

**Template Name**

telemetrypublisher\_data\_ingest\_failure\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Telemetry Publisher Data Ingest Test For Stream Hive-Tez-App**

This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream HIVE-tez-app. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Hive-Tez-App

**Metrics Data Ingest Failure Thresholds****Description**

The health test thresholds for monitoring the data ingest failure count.

**Template Name**

telemetrypublisher\_data\_ingest\_failure\_thresholds

**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

**Telemetry Publisher Data Ingest Monitoring Time Period****Description**

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

**Template Name**

telemetrypublisher\_data\_ingest\_failure\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Telemetry Publisher Data Ingest Test For Stream Impala-Query-Profile**



This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream IMPALA-query-profile. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Impala-Query-Profile

### Metrics Data Ingest Failure Thresholds

#### Description

The health test thresholds for monitoring the data ingest failure count.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Ingest Monitoring Time Period

#### Description

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Telemetry Publisher Data Ingest Test For Stream Oozie-Workflows

This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream OOZIE-workflows. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Oozie-Workflows

### Metrics Data Ingest Failure Thresholds

#### Description

The health test thresholds for monitoring the data ingest failure count.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Ingest Monitoring Time Period

#### Description

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_window

**Default Value**

5

**Unit(s)**

MINUTES

## Telemetry Publisher Data Ingest Test For Stream Spark2\_on\_yarn-Event-Log

This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream SPARK2\_ON\_YARN-event-log. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Spark2\_on\_yarn-Event-Log

### Metrics Data Ingest Failure Thresholds

**Description**

The health test thresholds for monitoring the data ingest failure count.

**Template Name**

```
telemetrypublisher_data_ingest_failure_thresholds
```

**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

### Telemetry Publisher Data Ingest Monitoring Time Period

**Description**

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

**Template Name**

```
telemetrypublisher_data_ingest_failure_window
```

**Default Value**

5

**Unit(s)**

MINUTES

## Telemetry Publisher Data Ingest Test For Stream Yarn-Apps

This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream YARN-apps. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Yarn-Apps

### Metrics Data Ingest Failure Thresholds

**Description**

The health test thresholds for monitoring the data ingest failure count.

**Template Name**

```
telemetrypublisher_data_ingest_failure_thresholds
```

**Default Value**

critical:5.0, warning:3.0

**Unit(s)**

TIMES

### Telemetry Publisher Data Ingest Monitoring Time Period

#### Description

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Telemetry Publisher Data Ingest Test For Stream Yarn-Jhist

This is a Telemetry Publisher health test that checks whether data is ingested successfully by stream YARN-jhist. A failure of this check indicates that one or more ingests failed.

Short Name: Data Ingest Test For Stream Yarn-Jhist

### Metrics Data Ingest Failure Thresholds

#### Description

The health test thresholds for monitoring the data ingest failure count.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_thresholds

#### Default Value

critical:5.0, warning:3.0

#### Unit(s)

TIMES

### Telemetry Publisher Data Ingest Monitoring Time Period

#### Description

The time period over which the telemetry publisher data ingest for streams will be monitored for failed ingest.

#### Template Name

telemetrypublisher\_data\_ingest\_failure\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Telemetry Publisher File Descriptors

This Telemetry Publisher health test checks that the number of file descriptors used does not rise above some percentage of the Telemetry Publisher file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Telemetry Publisher monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

telemetrypublisher\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Telemetry Publisher GC Duration

This Telemetry Publisher health test checks that the Telemetry Publisher is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the Telemetry Publisher. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period Telemetry Publisher monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

**Description**

The period to review when computing the moving average of garbage collection time.

**Template Name**

telemetrypublisher\_gc\_duration\_window

**Default Value**

5

**Unit(s)**

MINUTES

### Garbage Collection Duration Thresholds

**Description**

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

**Template Name**

telemetrypublisher\_gc\_duration\_thresholds

**Default Value**

critical:60.0, warning:30.0

**Unit(s)**

no unit

## Telemetry Publisher Heap Dump Directory Free Space

This Telemetry Publisher health test checks that the filesystem containing the heap dump directory of this Telemetry Publisher has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Telemetry Publisher monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Telemetry Publisher Host Health

This Telemetry Publisher health test factors in the health of the host upon which the Telemetry Publisher is running. A failure of this test means that the host running the Telemetry Publisher is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Telemetry Publisher Host Health Test Telemetry Publisher monitoring setting.

Short Name: Host Health

### Telemetry Publisher Host Health Test

#### Description

When computing the overall Telemetry Publisher health, consider the host's health.

#### Template Name

telemetrypublisher\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Telemetry Publisher Log Directory Free Space

This Telemetry Publisher health test checks that the filesystem containing the log directory of this Telemetry Publisher has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Telemetry Publisher monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Telemetry Publisher Process Status

This Telemetry Publisher health test checks that the Cloudera Manager Agent on the Telemetry Publisher host is heart beating correctly and that the process associated with the Telemetry Publisher role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Telemetry Publisher process, a lack of connectivity to the Cloudera Manager Agent on the Telemetry Publisher host, or a problem with the Cloudera Manager Agent. This test can fail either because the Telemetry Publisher has crashed or because the Telemetry Publisher will not start or stop in a timely fashion. Check the Telemetry Publisher logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Telemetry Publisher host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Telemetry Publisher host, or look in the Cloudera Manager Agent logs on the Telemetry Publisher host for more details. This test can be enabled or disabled using the Telemetry Publisher Process Health Test Telemetry Publisher monitoring setting.

Short Name: Process Status

### Telemetry Publisher Process Health Test

#### Description

Enables the health test that the Telemetry Publisher's process state is consistent with the role configuration

#### Template Name

telemetrypublisher\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Telemetry Publisher Swap Memory Usage

This Telemetry Publisher health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## Telemetry Publisher Swap Memory Usage Rate Beta

This Telemetry Publisher health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## Telemetry Publisher Telemetry Publisher Data Directory Free Space

This is a Telemetry Publisher health test that checks that the filesystem containing the Telemetry Publisher Data Directory of this Telemetry Publisher has sufficient free space. See the Telemetry Publisher Data Directory description on the Telemetry Publisher configuration page for more information on this directory type. This test can be configured using the Telemetry Publisher Data Directory Free Space Monitoring Absolute Thresholds and Telemetry Publisher Data Directory Free Space Monitoring Percentage Thresholds Telemetry Publisher monitoring settings.

Short Name: Telemetry Publisher Data Directory Free Space

### Telemetry Publisher Data Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Telemetry Publisher Data Directory.

#### Template Name

telemetrypublisher\_data\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Telemetry Publisher Data Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Telemetry Publisher Data Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Telemetry Publisher Data Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

telemetrypublisher\_data\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## Telemetry Publisher Unexpected Exits

This Telemetry Publisher health test checks that the Telemetry Publisher has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Telemetry Publisher monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name



unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

**Telemetry Publisher Web Server Status**

This health test checks that the role's web server is responding quickly to requests by the Cloudera Manager Agent, and that the Cloudera Manager Agent can collect metrics from the web server. Failure of this health test may indicate a problem with the web server of the Telemetry Publisher, a misconfiguration of the Telemetry Publisher, or a problem with the Cloudera Manager Agent. Consult the Cloudera Manager Agent logs and the logs of the Telemetry Publisher for more detail. If the test failure message indicates a communication problem, the Cloudera Manager Agent's HTTP requests to the Telemetry Publisher's web server are failing or timing out. If the test's failure message indicates an unexpected response, the Telemetry Publisher's web server responded to the Cloudera Manager Agent's request, but the response could not be interpreted for some reason. This test can be configured using the Web Metric Collection Telemetry Publisher monitoring setting.

Short Name: Web Server Status

**Web Metric Collection****Description**

Enables the health test that the Cloudera Manager Agent can successfully contact and gather metrics from the web server.

**Template Name**

telemetrypublisher\_web\_metric\_collection\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Web Metric Collection Duration****Description**

The health test thresholds on the duration of the metrics request to the web server.

**Template Name**

telemetrypublisher\_web\_metric\_collection\_thresholds

**Default Value**

critical:never, warning:10000.0

**Unit(s)**

MILLISECONDS

## Tracer Health Tests

### Tracer Audit Pipeline Test

This Tracer health test checks that the Auditing for the Tracer role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Tracer process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Tracer host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Tracer monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

**Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

mgmt\_navigator\_failure\_window

**Default Value**

20

**Unit(s)**

MINUTES

#### Navigator Audit Failure Thresholds

**Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

#### Navigator Audit Pipeline Health Check

**Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Tracer File Descriptors

This Tracer health test checks that the number of file descriptors used does not rise above some percentage of the Tracer file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Tracer monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

accumulo\_tracer\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## Tracer Host Health

This Tracer health test factors in the health of the host upon which the Tracer is running. A failure of this test means that the host running the Tracer is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Tracer Host Health Test Tracer monitoring setting.

Short Name: Host Health

### Tracer Host Health Test

#### Description

When computing the overall Tracer health, consider the host's health.

#### Template Name

accumulo\_tracer\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## Tracer Log Directory Free Space

This Tracer health test checks that the filesystem containing the log directory of this Tracer has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Tracer monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Tracer Process Status**

This Tracer health test checks that the Cloudera Manager Agent on the Tracer host is heart beating correctly and that the process associated with the Tracer role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Tracer process, a lack of connectivity to the Cloudera Manager Agent on the Tracer host, or a problem with the Cloudera Manager Agent. This test can fail either because the Tracer has crashed or because the Tracer will not start or stop in a timely fashion. Check the Tracer logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Tracer host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Tracer host, or look in the Cloudera Manager Agent logs on the Tracer host for more details. This test can be enabled or disabled using the Tracer Process Health Test Tracer monitoring setting.

Short Name: Process Status

**Tracer Process Health Test****Description**

Enables the health test that the Tracer's process state is consistent with the role configuration

**Template Name**

accumulo\_tracer\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Tracer Swap Memory Usage**

This Tracer health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### Tracer Swap Memory Usage Rate Beta

This Tracer health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

### Tracer Unexpected Exits

This Tracer health test checks that the Tracer has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Tracer monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## WebHCat Server Health Tests

### WebHCat Server Audit Pipeline Test

This WebHCat Server health test checks that the Auditing for the WebHCat Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of WebHCat Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the WebHCat Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check WebHCat Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

`mgmt_navigator_failure_thresholds`

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

`mgmt_navigator_status_check_enabled`

#### Default Value

true

#### Unit(s)

no unit

## WebHCat Server File Descriptors

This WebHCat Server health test checks that the number of file descriptors used does not rise above some percentage of the WebHCat Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds WebHCat Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

`webhcat_fd_thresholds`

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## WebHCat Server Heap Dump Directory Free Space

This WebHCat Server health test checks that the filesystem containing the heap dump directory of this WebHCat Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds WebHCat Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## WebHCat Server Host Health

This WebHCat Server health test factors in the health of the host upon which the WebHCat Server is running. A failure of this test means that the host running the WebHCat Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the WebHCat Server Host Health Test WebHCat Server monitoring setting.

Short Name: Host Health

### WebHCat Server Host Health Test

#### Description

When computing the overall WebHCat Server health, consider the host's health.

#### Template Name

webhcat\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## WebHCat Server Log Directory Free Space

This WebHCat Server health test checks that the filesystem containing the log directory of this WebHCat Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds WebHCat Server monitoring settings.



Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## WebHCat Server Process Status

This WebHCat Server health test checks that the Cloudera Manager Agent on the WebHCat Server host is heart beating correctly and that the process associated with the WebHCat Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the WebHCat Server process, a lack of connectivity to the Cloudera Manager Agent on the WebHCat Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the WebHCat Server has crashed or because the WebHCat Server will not start or stop in a timely fashion. Check the WebHCat Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the WebHCat Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the WebHCat Server host, or look in the Cloudera Manager Agent logs on the WebHCat Server host for more details. This test can be enabled or disabled using the WebHCat Server Process Health Test WebHCat Server monitoring setting.

Short Name: Process Status

### WebHCat Server Process Health Test

#### Description

Enables the health test that the WebHCat Server's process state is consistent with the role configuration

#### Template Name

webhcat\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## WebHCat Server Swap Memory Usage

This WebHCat Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## WebHCat Server Swap Memory Usage Rate Beta

This WebHCat Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## WebHCat Server Unexpected Exits

This WebHCat Server health test checks that the WebHCat Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period WebHCat Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## YARN Health Tests

### YARN Container Usage Aggregation

This health test checks whether Cloudera Manager can successfully aggregate YARN container usage metrics by reading them from HDFS and running a MapReduce job to aggregate them and store them in Service Monitor storage. A failure of this health test indicates that Cloudera Manager cannot generate cluster usage metrics for YARN jobs. If this test fails, look at Service Monitor logs for more details. This test can be enabled or disabled using the Enable Container Usage Metrics Collection YARN monitoring setting. .

Short Name: YARN Container Usage Aggregation

### Enable Container Usage Metrics Collection

#### Description

Enables storing YARN container usage metrics in HDFS and periodically running a MapReduce job from Cloudera Service Monitor to aggregate them into per-application metrics. This is required for YARN usage reporting to work.

**Template Name**

cm\_yarn\_enable\_container\_usage\_aggregation

**Default Value**

CDH=[[CDH 5.7.0..CDH 8.0.0)=false]

**Unit(s)**

no unit

## YARN JobHistory Server Health

This YARN service-level health test checks for the presence of a running, healthy JobHistory Server. The test returns "Bad" health if the service is running and the JobHistory Server is not running. In all other cases it returns the health of the JobHistory Server. A failure of this health test indicates a stopped or unhealthy JobHistory Server. Check the status of the JobHistory Server for more information. This test can be enabled or disabled using the JobHistory Server Role Health Test JobHistory Server service-wide monitoring setting.

Short Name: JobHistory Server Health

### JobHistory Server Role Health Test

**Description**

When computing the overall YARN health, consider JobHistory Server's health

**Template Name**

yarn\_jobhistoryserver\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## YARN NodeManager Health

This is a YARN service-level health test that checks that enough of the NodeManagers in the cluster are healthy. The test returns "Concerning" health if the number of healthy NodeManagers falls below a warning threshold, expressed as a percentage of the total number of NodeManagers. The test returns "Bad" health if the number of healthy and "Concerning" NodeManagers falls below a critical threshold, expressed as a percentage of the total number of NodeManagers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 NodeManagers, this test would return "Good" health if 95 or more NodeManagers have good health. This test would return "Concerning" health if at least 90 NodeManagers have either "Good" or "Concerning" health. If more than 10 NodeManagers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy NodeManagers. Check the status of the individual NodeManagers for more information. This test can be configured using the YARN YARN service-wide monitoring setting.

Short Name: NodeManager Health

### Healthy NodeManager Monitoring Thresholds

**Description**

The health test thresholds of the overall NodeManager health. The check returns "Concerning" health if the percentage of "Healthy" NodeManagers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" NodeManagers falls below the critical threshold.

**Template Name**

yarn\_nodemangers\_healthy\_thresholds

**Default Value**

critical:90.0, warning:95.0

**Unit(s)**

PERCENT

## YARN ResourceManager Health (HA)

This is a YARN service-level health test that checks for and active, healthy ResourceManager. The test returns "Bad" health if the service is running and an active ResourceManager cannot be found. If an active ResourceManager is found, then the test checks the health of that ResourceManager as well as the health of any standby ResourceManager configured. A "Good" health result will only be returned if both the active and Standby ResourceManagers are healthy. A failure of this health test may indicate stopped or unhealthy ResourceManager roles, or it may indicate a problem with communication between the Cloudera Manager Service Monitor and the ResourceManagers. Check the status of the YARN service's ResourceManager roles and look in the Cloudera Manager Service Monitor's log files for more information when this test fails. This test can be enabled or disabled using the Active ResourceManager Role Health Check YARN service-wide monitoring setting. The check for a healthy standby ResourceManager can be enabled or disabled with Standby ResourceManager Health Check. In addition, the Active ResourceManager Detection Window can be used to adjust the amount of time that the Cloudera Manager Service Monitor has to detect the active ResourceManager before this health test fails, and the ResourceManager Activation Startup Tolerance can be used to adjust the amount of time around ResourceManager startup that the test allows for a ResourceManager to be made active.

Short Name: ResourceManager Health

### Active ResourceManager Detection Window

**Description**

The tolerance window used in YARN service tests that depend on detection of the active ResourceManager.

**Template Name**

yarn\_active\_resourcemanager\_detection\_window

**Default Value**

CDH=[[CDH 5.0.0..CDH 8.0.0)=3]

**Unit(s)**

MINUTES

### Active ResourceManager Role Health Check

**Description**

When computing the overall YARN service health, whether to consider the active ResourceManager's health.

**Template Name**

yarn\_resourcemangers\_health\_enabled

**Default Value**

CDH=[[CDH 5.0.0..CDH 8.0.0)=true]

**Unit(s)**

no unit

### ResourceManager Activation Startup Tolerance

**Description**

The amount of time after ResourceManager(s) start that the lack of an active ResourceManager will be tolerated. This is an advanced option that does not often need to be changed.

**Template Name**

```
yarn_resourcemanager_activation_startup_tolerance
```

**Default Value**

```
CDH=[[CDH 5.0.0..CDH 8.0.0)=180]
```

**Unit(s)**

```
SECONDS
```

**Standby ResourceManager Health Check****Description**

When computing the overall YARN service health, whether to consider the health of the standby ResourceManager.

**Template Name**

```
yarn_standby_resourcemanager_health_enabled
```

**Default Value**

```
CDH=[[CDH 5.0.0..CDH 8.0.0)=true]
```

**Unit(s)**

```
no unit
```

## YARN Queue Manager Store Health Tests

### YARN Queue Manager Store Audit Pipeline Test

This YARN Queue Manager Store health test checks that the Auditing for the YARN Queue Manager Store role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of YARN Queue Manager Store process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the YARN Queue Manager Store host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check YARN Queue Manager Store monitoring setting.

Short Name: Audit Pipeline Test

**Monitoring Period For Audit Failures****Description**

The period to review when checking if audits are blocked and not getting processed.

**Template Name**

```
mgmt_navigator_failure_window
```

**Default Value**

```
20
```

**Unit(s)**

```
MINUTES
```

**Navigator Audit Failure Thresholds****Description**

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the `mgmt_navigator_failure_window` configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

**Template Name**

mgmt\_navigator\_failure\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

BYTES

**Navigator Audit Pipeline Health Check****Description**

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

**Template Name**

mgmt\_navigator\_status\_check\_enabled

**Default Value**

true

**Unit(s)**

no unit

**YARN Queue Manager Store File Descriptors**

This YARN Queue Manager Store health test checks that the number of file descriptors used does not rise above some percentage of the YARN Queue Manager Store file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds YARN Queue Manager Store monitoring setting.

Short Name: File Descriptors

**File Descriptor Monitoring Thresholds****Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

queuemanager\_store\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

**YARN Queue Manager Store Host Health**

This YARN Queue Manager Store health test factors in the health of the host upon which the YARN Queue Manager Store is running. A failure of this test means that the host running the YARN Queue Manager Store is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the YARN Queue Manager Store Host Health Test YARN Queue Manager Store monitoring setting.

Short Name: Host Health

**YARN Queue Manager Store Host Health Test****Description**

When computing the overall YARN Queue Manager Store health, consider the host's health.

**Template Name**

|                      |  |
|----------------------|--|
|                      | queuemanager_store_host_health_enabled |
| <b>Default Value</b> | true                                   |
| <b>Unit(s)</b>       | no unit                                |

## YARN Queue Manager Store Log Directory Free Space

This YARN Queue Manager Store health test checks that the filesystem containing the log directory of this YARN Queue Manager Store has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds YARN Queue Manager Store monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## YARN Queue Manager Store Process Status

This YARN Queue Manager Store health test checks that the Cloudera Manager Agent on the YARN Queue Manager Store host is heart beating correctly and that the process associated with the YARN Queue Manager Store role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the YARN Queue Manager Store process, a lack of connectivity to the Cloudera Manager Agent on the YARN Queue Manager Store host, or a problem with the Cloudera Manager Agent. This test can fail either because the YARN Queue Manager Store has crashed or because the YARN Queue Manager Store will not start or stop in a timely fashion. Check the YARN Queue Manager Store logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the YARN Queue Manager Store host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the YARN Queue Manager Store host, or look in the Cloudera



Manager Agent logs on the YARN Queue Manager Store host for more details. This test can be enabled or disabled using the YARN Queue Manager Store Process Health Test YARN Queue Manager Store monitoring setting.

Short Name: Process Status

### YARN Queue Manager Store Process Health Test

#### Description

Enables the health test that the YARN Queue Manager Store's process state is consistent with the role configuration

#### Template Name

queuemanager\_store\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

### YARN Queue Manager Store Swap Memory Usage

This YARN Queue Manager Store health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### YARN Queue Manager Store Swap Memory Usage Rate Beta

This YARN Queue Manager Store health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

**Unit(s)**

BYTES

**Swap Memory Usage Rate Window****Description**

The period to review when computing unexpected swap memory usage change of the process.

**Template Name**

process\_swap\_memory\_rate\_window

**Default Value**

5

**Unit(s)**

MINUTES

**YARN Queue Manager Store Unexpected Exits**

This YARN Queue Manager Store health test checks that the YARN Queue Manager Store has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period YARN Queue Manager Store monitoring settings.

Short Name: Unexpected Exits

**Unexpected Exits Monitoring Period****Description**

The period to review when computing unexpected exits.

**Template Name**

unexpected\_exits\_window

**Default Value**

5

**Unit(s)**

MINUTES

**Unexpected Exits Thresholds****Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

**Template Name**

unexpected\_exits\_thresholds

**Default Value**

critical:any, warning:never

**Unit(s)**

no unit

## YARN Queue Manager Webapp Health Tests

### YARN Queue Manager Webapp Audit Pipeline Test

This YARN Queue Manager Webapp health test checks that the Auditing for the YARN Queue Manager Webapp role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of YARN Queue Manager Webapp process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the YARN Queue Manager Webapp host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check YARN Queue Manager Webapp monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true

##### Unit(s)

no unit

## YARN Queue Manager Webapp File Descriptors

This YARN Queue Manager Webapp health test checks that the number of file descriptors used does not rise above some percentage of the YARN Queue Manager Webapp file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds YARN Queue Manager Webapp monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

queuemanager\_webapp\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## YARN Queue Manager Webapp Host Health

This YARN Queue Manager Webapp health test factors in the health of the host upon which the YARN Queue Manager Webapp is running. A failure of this test means that the host running the YARN Queue Manager Webapp is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the YARN Queue Manager Webapp Host Health Test YARN Queue Manager Webapp monitoring setting.

Short Name: Host Health

### YARN Queue Manager Webapp Host Health Test

#### Description

When computing the overall YARN Queue Manager Webapp health, consider the host's health.

#### Template Name

queuemanager\_webapp\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## YARN Queue Manager Webapp Log Directory Free Space

This YARN Queue Manager Webapp health test checks that the filesystem containing the log directory of this YARN Queue Manager Webapp has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds YARN Queue Manager Webapp monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**YARN Queue Manager Webapp Process Status**

This YARN Queue Manager Webapp health test checks that the Cloudera Manager Agent on the YARN Queue Manager Webapp host is heart beating correctly and that the process associated with the YARN Queue Manager Webapp role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the YARN Queue Manager Webapp process, a lack of connectivity to the Cloudera Manager Agent on the YARN Queue Manager Webapp host, or a problem with the Cloudera Manager Agent. This test can fail either because the YARN Queue Manager Webapp has crashed or because the YARN Queue Manager Webapp will not start or stop in a timely fashion. Check the YARN Queue Manager Webapp logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the YARN Queue Manager Webapp host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the YARN Queue Manager Webapp host, or look in the Cloudera Manager Agent logs on the YARN Queue Manager Webapp host for more details. This test can be enabled or disabled using the YARN Queue Manager Webapp Process Health Test YARN Queue Manager Webapp monitoring setting.

Short Name: Process Status

**YARN Queue Manager Webapp Process Health Test****Description**

Enables the health test that the YARN Queue Manager Webapp's process state is consistent with the role configuration

**Template Name**

queuemanager\_webapp\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**YARN Queue Manager Webapp Swap Memory Usage**

This YARN Queue Manager Webapp health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

process\_swap\_memory\_thresholds

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## YARN Queue Manager Webapp Swap Memory Usage Rate Beta

This YARN Queue Manager Webapp health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

process\_swap\_memory\_rate\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

process\_swap\_memory\_rate\_window

#### Default Value

5

#### Unit(s)

MINUTES

## YARN Queue Manager Webapp Unexpected Exits

This YARN Queue Manager Webapp health test checks that the YARN Queue Manager Webapp has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period YARN Queue Manager Webapp monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## Zeppelin Health Tests

### Zeppelin Server Health

This Zeppelin service-level health test checks for the presence of a running, healthy Zeppelin Server. The test returns "Bad" health if the service is running and the Zeppelin Server is not running. In all other cases it returns the health of the Zeppelin Server. A failure of this health test indicates a stopped or unhealthy Zeppelin Server. Check the status of the Zeppelin Server for more information. This test can be enabled or disabled using the Zeppelin Server Role Health Test Zeppelin Server service-wide monitoring setting.

Short Name: Zeppelin Server Health

### Zeppelin Server Role Health Test

#### Description

When computing the overall ZEPPELIN health, consider Zeppelin Server's health

#### Template Name

ZEPPELIN\_ZEPPELIN\_SERVER\_health\_enabled

#### Default Value

|                |         |
|----------------|---------|
|                | true    |
| <b>Unit(s)</b> | no unit |

## Zeppelin Server Health Tests

### Zeppelin Server Audit Pipeline Test

This Zeppelin Server health test checks that the Auditing for the Zeppelin Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Zeppelin Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Zeppelin Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Zeppelin Server monitoring setting.

Short Name: Audit Pipeline Test

#### Monitoring Period For Audit Failures

##### Description

The period to review when checking if audits are blocked and not getting processed.

##### Template Name

mgmt\_navigator\_failure\_window

##### Default Value

20

##### Unit(s)

MINUTES

#### Navigator Audit Failure Thresholds

##### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

##### Template Name

mgmt\_navigator\_failure\_thresholds

##### Default Value

critical:any, warning:never

##### Unit(s)

BYTES

#### Navigator Audit Pipeline Health Check

##### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

##### Template Name

mgmt\_navigator\_status\_check\_enabled

##### Default Value

true



**Unit(s)**

no unit

## Zeppelin Server File Descriptors

This Zeppelin Server health test checks that the number of file descriptors used does not rise above some percentage of the Zeppelin Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Zeppelin Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

**Description**

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

**Template Name**

zeppelin\_server\_fd\_thresholds

**Default Value**

critical:70.0, warning:50.0

**Unit(s)**

PERCENT

## Zeppelin Server Host Health

This Zeppelin Server health test factors in the health of the host upon which the Zeppelin Server is running. A failure of this test means that the host running the Zeppelin Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Zeppelin Server Host Health Test Zeppelin Server monitoring setting.

Short Name: Host Health

### Zeppelin Server Host Health Test

**Description**

When computing the overall Zeppelin Server health, consider the host's health.

**Template Name**

zeppelin\_server\_host\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

## Zeppelin Server Log Directory Free Space

This Zeppelin Server health test checks that the filesystem containing the log directory of this Zeppelin Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Zeppelin Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

**Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

**Template Name**

log\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Log Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

log\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT

**Zeppelin Server Process Status**

This Zeppelin Server health test checks that the Cloudera Manager Agent on the Zeppelin Server host is heart beating correctly and that the process associated with the Zeppelin Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Zeppelin Server process, a lack of connectivity to the Cloudera Manager Agent on the Zeppelin Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Zeppelin Server has crashed or because the Zeppelin Server will not start or stop in a timely fashion. Check the Zeppelin Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Zeppelin Server host, check the status of the Cloudera Manager Agent by running `etc/init.d/cloudera-scm-agent status` on the Zeppelin Server host, or look in the Cloudera Manager Agent logs on the Zeppelin Server host for more details. This test can be enabled or disabled using the Zeppelin Server Process Health Test Zeppelin Server monitoring setting.

Short Name: Process Status

**Zeppelin Server Process Health Test****Description**

Enables the health test that the Zeppelin Server's process state is consistent with the role configuration

**Template Name**

zeppelin\_server\_scm\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

**Zeppelin Server Swap Memory Usage**

This Zeppelin Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

## Zeppelin Server Swap Memory Usage Rate Beta

This Zeppelin Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

## Zeppelin Server Unexpected Exits

This Zeppelin Server health test checks that the Zeppelin Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Zeppelin Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Unexpected Exits Thresholds

#### Description

The health test thresholds for unexpected exits encountered within a recent period specified by the unexpected\_exits\_window configuration for the role.

#### Template Name

unexpected\_exits\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

no unit

## ZooKeeper Health Tests

### ZooKeeper Canary

This is a ZooKeeper service-level health test that checks that basic client operations are working and are completing in a reasonable amount of time. This test reports the results of a periodic "canary" test that performs the following sequence of operations. First, it connects to and establishes a session (the root session) with the ZooKeeper service and creates a permanent znode to serve as the root of all canary operations. The canary test then connects to and establishes sessions (the child sessions) with each ZooKeeper server of the service.. Each child session is used to create an ephemeral child znode under the canary root. After the child znodes have been created, watches that await znode deletion events are registered with each of the child znodes for each of the child sessions. The canary test then deletes each of the child znodes and then verifies that each child session has received deletion notifications for each of the child znodes. Finally the canary test closes all the child sessions, deletes the root znode and closes the root session. The test returns "Bad" health if the establishment of the root session to the ZooKeeper service fails, the creation of znodes (permanent or ephemeral) fails, the deletion of znodes fails or the retrieval of child znodes of the root znode fails. The test returns "Concerning" health when the canary test succeeds but has one or more servers that could not participate in the canary test operations or if the canary test runs too slowly. A failure of this health test may indicate that ZooKeeper is failing to satisfy client requests correctly or in a timely fashion. Check the status of the ZooKeeper servers, and look in the ZooKeeper server logs for more details. This test can be enabled or disabled using

the ZooKeeper Canary Health Check ZooKeeper service monitoring setting. The ZooKeeper Canary Root Znode Path, ZooKeeper Canary Connection Timeout, ZooKeeper Canary Session Timeout, ZooKeeper Canary Operation Timeout settings control the operation of the canary.

Short Name: ZooKeeper Canary

### ZooKeeper Canary Connection Timeout

**Description**

Configures the timeout used by the canary for connection establishment with ZooKeeper servers

**Template Name**

zookeeper\_canary\_connection\_timeout

**Default Value**

10000

**Unit(s)**

MILLISECONDS

### ZooKeeper Canary Health Check

**Description**

Enables the health check that a client can connect to ZooKeeper and perform basic operations

**Template Name**

zookeeper\_canary\_health\_enabled

**Default Value**

true

**Unit(s)**

no unit

### ZooKeeper Canary Operation Timeout

**Description**

Configures the timeout used by the canary for ZooKeeper operations

**Template Name**

zookeeper\_canary\_operation\_timeout

**Default Value**

30000

**Unit(s)**

MILLISECONDS

### ZooKeeper Canary Root Znode Path

**Description**

Configures the path of the root znode under which all canary updates are performed

**Template Name**

zookeeper\_canary\_root\_path

**Default Value**

/cloudera\_manager\_zookeeper\_canary

**Unit(s)**

no unit

### ZooKeeper Canary Session Timeout

#### Description

Configures the timeout used by the canary sessions with ZooKeeper servers

#### Template Name

zookeeper\_canary\_session\_timeout

#### Default Value

30000

#### Unit(s)

MILLISECONDS

### ZooKeeper Server Health

This is a ZooKeeper service-level health test that checks that enough of the Servers in the cluster are healthy. The test returns "Concerning" health if the number of healthy Servers falls below a warning threshold, expressed as a percentage of the total number of Servers. The test returns "Bad" health if the number of healthy and "Concerning" Servers falls below a critical threshold, expressed as a percentage of the total number of Servers. For example, if this test is configured with a warning threshold of 95% and a critical threshold of 90% for a cluster of 100 Servers, this test would return "Good" health if 95 or more Servers have good health. This test would return "Concerning" health if at least 90 Servers have either "Good" or "Concerning" health. If more than 10 Servers have bad health, this test would return "Bad" health. A failure of this health test indicates unhealthy Servers. Check the status of the individual Servers for more information. This test can be configured using the ZooKeeper ZooKeeper service-wide monitoring setting.

Short Name: Server Health

#### Healthy Server Monitoring Thresholds

##### Description

The health test thresholds of the overall Server health. The check returns "Concerning" health if the percentage of "Healthy" Servers falls below the warning threshold. The check is unhealthy if the total percentage of "Healthy" and "Concerning" Servers falls below the critical threshold.

##### Template Name

zookeeper\_servers\_healthy\_thresholds

##### Default Value

critical:51.0, warning:99.0

##### Unit(s)

PERCENT

### ZooKeeper Server Health Tests

#### ZooKeeper Server Audit Pipeline Test

This Server health test checks that the Auditing for the Server role is getting processed correctly and is not blocked. A failure of this health test may indicate a problem with the audit pipeline of Server process. This test can fail either because the Cloudera Audit Server is not accepting audits, or the Cloudera Manager Agent on the Server host isn't able to send audits because of some network issue. Check the Cloudera Manager Agent logs and Cloudera Audit Server logs for more details. This test can be enabled or disabled using the Navigator Audit Pipeline Health Check Server monitoring setting.

Short Name: Audit Pipeline Test

### Monitoring Period For Audit Failures

#### Description

The period to review when checking if audits are blocked and not getting processed.

#### Template Name

mgmt\_navigator\_failure\_window

#### Default Value

20

#### Unit(s)

MINUTES

### Navigator Audit Failure Thresholds

#### Description

The health test thresholds for failures encountered when monitoring audits within a recent period specified by the mgmt\_navigator\_failure\_window configuration for the role. The value that can be specified for this threshold is the number of bytes of audits data that is left to be sent to audit server.

#### Template Name

mgmt\_navigator\_failure\_thresholds

#### Default Value

critical:any, warning:never

#### Unit(s)

BYTES

### Navigator Audit Pipeline Health Check

#### Description

Enable test of audit events processing pipeline. This will test if audit events are not getting processed by Audit Server for a role that generates audit.

#### Template Name

mgmt\_navigator\_status\_check\_enabled

#### Default Value

true

#### Unit(s)

no unit

## ZooKeeper Server Connection Count

This is a ZooKeeper Server role-level health test that checks that a moving average of the ZooKeeper Server's connection count does not exceed some value. A failure of this health test indicates a high connection load on the ZooKeeper Server. This test can be configured using the ZooKeeper Server Connection Count Thresholds and ZooKeeper Server Connection Count Monitoring Period ZooKeeper Server monitoring settings.

Short Name: Connection Count

### ZooKeeper Server Connection Count Monitoring Period

#### Description

The period to review when computing the moving average of the connection count. Specified in minutes.

#### Template Name

zookeeper\_server\_connection\_count\_window

**Default Value**

3

**Unit(s)**

MINUTES

**ZooKeeper Server Connection Count Thresholds****Description**

The health check thresholds of the weighted average size of the ZooKeeper Server connection count over a recent period. See ZooKeeper Server Connection Count Monitoring Period.

**Template Name**

zookeeper\_server\_connection\_count\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

no unit

**ZooKeeper Server Data Directory Free Space**

This is a Server health test that checks that the filesystem containing the Data Directory of this Server has sufficient free space. See the Data Directory description on the Server configuration page for more information on this directory type. This test can be configured using the Data Directory Free Space Monitoring Absolute Thresholds and Data Directory Free Space Monitoring Percentage Thresholds Server monitoring settings.

Short Name: Data Directory Free Space

**Data Directory Free Space Monitoring Absolute Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Data Directory.

**Template Name**

zookeeper\_server\_data\_directory\_free\_space\_absolute\_thresholds

**Default Value**

critical:5.36870912E9, warning:1.073741824E10

**Unit(s)**

BYTES

**Data Directory Free Space Monitoring Percentage Thresholds****Description**

The health test thresholds for monitoring of free space on the filesystem that contains this role's Data Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Data Directory Free Space Monitoring Absolute Thresholds setting is configured.

**Template Name**

zookeeper\_server\_data\_directory\_free\_space\_percentage\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

PERCENT



## ZooKeeper Server File Descriptors

This Server health test checks that the number of file descriptors used does not rise above some percentage of the Server file descriptor limit. A failure of this health test may indicate a bug in either Hadoop or Cloudera Manager. Contact Cloudera support. This test can be configured using the File Descriptor Monitoring Thresholds Server monitoring setting.

Short Name: File Descriptors

### File Descriptor Monitoring Thresholds

#### Description

The health test thresholds of the number of file descriptors used. Specified as a percentage of file descriptor limit.

#### Template Name

zookeeper\_server\_fd\_thresholds

#### Default Value

critical:70.0, warning:50.0

#### Unit(s)

PERCENT

## ZooKeeper Server GC Duration

This Server health test checks that the Server is not spending too much time performing Java garbage collection. It checks that no more than some percentage of recent time is spent performing Java garbage collection. A failure of this health test may indicate a capacity planning problem or misconfiguration of the Server. This test can be configured using the Garbage Collection Duration Thresholds and Garbage Collection Duration Monitoring Period Server monitoring settings.

Short Name: GC Duration

### Garbage Collection Duration Monitoring Period

#### Description

The period to review when computing the moving average of garbage collection time.

#### Template Name

zookeeper\_server\_gc\_duration\_window

#### Default Value

5

#### Unit(s)

MINUTES

### Garbage Collection Duration Thresholds

#### Description

The health test thresholds for the weighted average time spent in Java garbage collection. Specified as a percentage of elapsed wall clock time.

#### Template Name

zookeeper\_server\_gc\_duration\_thresholds

#### Default Value

critical:60.0, warning:30.0

#### Unit(s)

no unit

## ZooKeeper Server Heap Dump Directory Free Space

This Server health test checks that the filesystem containing the heap dump directory of this Server has sufficient free space. This test can be configured using the Heap Dump Directory Free Space Monitoring Absolute Thresholds and Heap Dump Directory Free Space Monitoring Percentage Thresholds Server monitoring settings.

Short Name: Heap Dump Directory Free Space

### Heap Dump Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory.

#### Template Name

heap\_dump\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Heap Dump Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's heap dump directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Heap Dump Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

heap\_dump\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## ZooKeeper Server Host Health

This Server health test factors in the health of the host upon which the Server is running. A failure of this test means that the host running the Server is experiencing some problem. See that host's status page for more details. This test can be enabled or disabled using the Server Host Health Test Server monitoring setting.

Short Name: Host Health

### Server Host Health Test

#### Description

When computing the overall Server health, consider the host's health.

#### Template Name

zookeeper\_server\_host\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## ZooKeeper Server Log Directory Free Space

This Server health test checks that the filesystem containing the log directory of this Server has sufficient free space. This test can be configured using the Log Directory Free Space Monitoring Absolute Thresholds and Log Directory Free Space Monitoring Percentage Thresholds Server monitoring settings.

Short Name: Log Directory Free Space

### Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory.

#### Template Name

log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's log directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## ZooKeeper Server Maximum Request Latency

This is a ZooKeeper server health test that checks that the ratio of the maximum request latency to the maximum client-negotiable session timeout does not exceed some value. Note that the maximum client-negotiable timeout need not be the actual session timeout used by a client but is the upper bound of such client session timeouts. As a result, this test being in "Good" health does not preclude clients from experiencing timeouts based on the particular session timeout value they have negotiated with the server. A failure of this health test likely indicates a high load on the ZooKeeper Server. This test can be configured using the Maximum Latency Monitoring Thresholds ZooKeeper Server monitoring setting.

Short Name: Maximum Request Latency

### Maximum Latency Monitoring Thresholds

#### Description

The percentage thresholds of the ratio of the maximum request latency to the maximum client-negotiable session timeout since the server was started.

#### Template Name

zookeeper\_server\_max\_latency\_thresholds

#### Default Value

critical:100.0, warning:75.0

**Unit(s)**

PERCENT

## ZooKeeper Server Outstanding Requests

This is a ZooKeeper Server role-level health test that checks that a moving average of the size of the ZooKeeper Server's outstanding requests does not exceed some value. Outstanding requests are the number of queued requests in the server. It increases when the server is under load and is receiving more sustained requests than it can process. A failure of this health test indicates a high connection load on the ZooKeeper Server. This test can be configured using the ZooKeeper Server Outstanding Requests Thresholds and ZooKeeper Server Outstanding Requests Monitoring Period ZooKeeper Server monitoring settings.

Short Name: Outstanding Requests

### ZooKeeper Server Outstanding Requests Monitoring Period

**Description**

The period to review when computing the moving average of the outstanding requests queue size. Specified in minutes.

**Template Name**

zookeeper\_server\_outstanding\_requests\_window

**Default Value**

3

**Unit(s)**

MINUTES

### ZooKeeper Server Outstanding Requests Thresholds

**Description**

The health check thresholds of the weighted average size of the ZooKeeper Server outstanding requests queue over a recent period. See ZooKeeper Server Outstanding Requests Monitoring Period.

**Template Name**

zookeeper\_server\_outstanding\_requests\_thresholds

**Default Value**

critical:never, warning:never

**Unit(s)**

no unit

## ZooKeeper Server Process Status

This Server health test checks that the Cloudera Manager Agent on the Server host is heart beating correctly and that the process associated with the Server role is in the state expected by Cloudera Manager. A failure of this health test may indicate a problem with the Server process, a lack of connectivity to the Cloudera Manager Agent on the Server host, or a problem with the Cloudera Manager Agent. This test can fail either because the Server has crashed or because the Server will not start or stop in a timely fashion. Check the Server logs for more details. If the test fails because of problems communicating with the Cloudera Manager Agent on the Server host, check the status of the Cloudera Manager Agent by running `/etc/init.d/cloudera-scm-agent status` on the Server host, or look in the Cloudera Manager Agent logs on the Server host for more details. This test can be enabled or disabled using the Server Process Health Test Server monitoring setting.

Short Name: Process Status

### Server Process Health Test

#### Description

Enables the health test that the Server's process state is consistent with the role configuration

#### Template Name

zookeeper\_server\_scm\_health\_enabled

#### Default Value

true

#### Unit(s)

no unit

## ZooKeeper Server Quorum Membership

This is a ZooKeeper server role-level health test to verify that the server is part of a quorum. This check is disabled if the ZooKeeper Server is in standalone mode. The test returns "Concerning" health as long as the quorum membership status for the ZooKeeper Server was determined within the detection window and it is in leader election. The test returns "Bad" health if the ZooKeeper Server is not part of a quorum or the quorum status of the ZooKeeper Server could not be determined for the entire detection window. A failure of this health test may indicate a communication problem between this ZooKeeper Server and the rest of its peers or between the Cloudera Manager Service Monitor and the ZooKeeper Server. Check the ZooKeeper Server and Cloudera Manager Service Monitor logs for additional information. This test can be enabled or disabled using the Enable the Quorum Membership Check ZooKeeper Server monitoring setting. In addition, the Quorum Membership Detection Window setting can be used to adjust the time that the Cloudera Manager Service Monitor has to detect the ZooKeeper Server quorum membership status before this health test fails.

Short Name: Quorum Membership

### Enable the Quorum Membership Check

#### Description

Enables the quorum membership check for this ZooKeeper Server.

#### Template Name

zookeeper\_server\_quorum\_membership\_enabled

#### Default Value

true

#### Unit(s)

no unit

### Quorum Membership Detection Window

#### Description

The tolerance window that will be used in the detection of a ZooKeeper server's membership in a quorum. Specified in minutes.

#### Template Name

zookeeper\_server\_quorum\_membership\_detection\_window

#### Default Value

3

#### Unit(s)

MINUTES

## ZooKeeper Server Swap Memory Usage

This Server health test checks the amount of swap memory in use by the role. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Process Swap Memory Thresholds monitoring settings.

Short Name: Swap Memory Usage

### Process Swap Memory Thresholds

#### Description

The health test thresholds on the swap memory usage of the process. This takes precedence over the host level threshold.

#### Template Name

`process_swap_memory_thresholds`

#### Default Value

critical:never, warning:200.0

#### Unit(s)

BYTES

### ZooKeeper Server Swap Memory Usage Rate Beta

This Server health test checks the change of the amount of swap memory usage by the role during a predefined period. A failure of this health test may indicate that your machine is overloaded. This test can be configured using the Swap Memory Usage Rate Thresholds and Swap Memory Usage Rate Window monitoring settings.

Short Name: Swap Memory Usage Rate Beta

### Swap Memory Usage Rate Thresholds

#### Description

The health test thresholds on the swap memory usage rate of the process. Specified as the change of the used swap memory during the predefined period.

#### Template Name

`process_swap_memory_rate_thresholds`

#### Default Value

critical:never, warning:never

#### Unit(s)

BYTES

### Swap Memory Usage Rate Window

#### Description

The period to review when computing unexpected swap memory usage change of the process.

#### Template Name

`process_swap_memory_rate_window`

#### Default Value

5

#### Unit(s)

MINUTES

### ZooKeeper Server Transaction Log Directory Free Space

This is a Server health test that checks that the filesystem containing the Transaction Log Directory of this Server has sufficient free space. See the Transaction Log Directory description on the Server configuration page for more

information on this directory type. This test can be configured using the Transaction Log Directory Free Space Monitoring Absolute Thresholds and Transaction Log Directory Free Space Monitoring Percentage Thresholds Server monitoring settings.

Short Name: Transaction Log Directory Free Space

### Transaction Log Directory Free Space Monitoring Absolute Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Transaction Log Directory.

#### Template Name

zookeeper\_server\_data\_log\_directory\_free\_space\_absolute\_thresholds

#### Default Value

critical:5.36870912E9, warning:1.073741824E10

#### Unit(s)

BYTES

### Transaction Log Directory Free Space Monitoring Percentage Thresholds

#### Description

The health test thresholds for monitoring of free space on the filesystem that contains this role's Transaction Log Directory. Specified as a percentage of the capacity on that filesystem. This setting is not used if a Transaction Log Directory Free Space Monitoring Absolute Thresholds setting is configured.

#### Template Name

zookeeper\_server\_data\_log\_directory\_free\_space\_percentage\_thresholds

#### Default Value

critical:never, warning:never

#### Unit(s)

PERCENT

## ZooKeeper Server Unexpected Exits

This Server health test checks that the Server has not recently exited unexpectedly. The test returns "Bad" health if the number of unexpected exits exceeds a critical threshold. For example, if this test is configured with a critical threshold of 1, this test returns "Good" health if there have been no unexpected exits recently. If 1 or more unexpected exits occurred recently, this test returns "Bad" health. The test also indicates whether any of the exits were caused by an OutOfMemory error if the Cloudera Manager Kill When Out of Memory monitoring setting is enabled. This test can be configured using the Unexpected Exits Thresholds and Unexpected Exits Monitoring Period Server monitoring settings.

Short Name: Unexpected Exits

### Unexpected Exits Monitoring Period

#### Description

The period to review when computing unexpected exits.

#### Template Name

unexpected\_exits\_window

#### Default Value

5

#### Unit(s)

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MINUTES

### Unexpected Exits Thresholds

**Description**

The health test thresholds for unexpected exits encountered within a recent period specified by the `unexpected_exits_window` configuration for the role.

**Template Name**

`unexpected_exits_thresholds`

**Default Value**

`critical:any, warning:never`

**Unit(s)**

no unit