

Cloudera Runtime 7.2.11

Configuring Apache Hive

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CLOUDERA

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Configuring Hive in Cloudera Data Warehouse

Configuring Hive performance in the Cloud is rarely, if ever, required relative to the extensive performance tuning typical in a bare metal environment. You might occasionally want to configure Hive properties unrelated to performance, such as HiveServer (HS2) administration or logging level properties.

About this task

Changing one of the vast array of configuration parameters from Cloudera Data Warehouse is recommended only when following Cloudera instructions. For example, you follow instructions in a compaction alert or the product documentation that describes the property and value to change, and how to do it.

In Cloudera Data Warehouse, if you have required permissions, you can configure Hive, Hive metastore, or HiveServer properties from a Database Catalog or Virtual Warehouse. In this task, you see how to change a property and add a property from the Database Catalog, and then from a Virtual Warehouse.

Before you begin

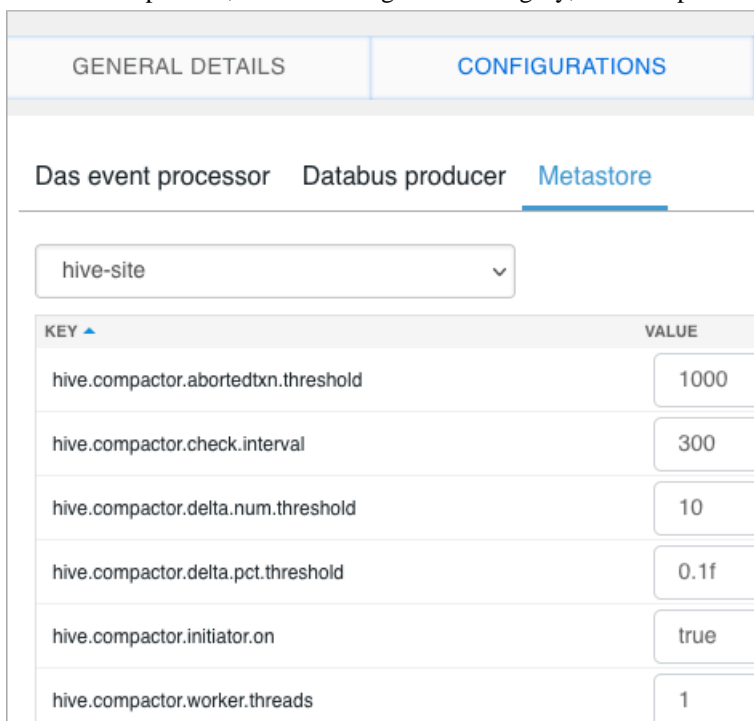
- You have the appropriate Admin role to make the configuration change.

Procedure

1.

Click  Edit Configurations Metastore .

2. From the drop-down, select a configuration category, for example hive-site.



KEY ▲	VALUE
hive.compactor.abortedtxn.threshold	1000
hive.compactor.check.interval	300
hive.compactor.delta.num.threshold	10
hive.compactor.delta.pct.threshold	0.1f
hive.compactor.initiator.on	true
hive.compactor.worker.threads	1

3. Change, or set, the property value.

4. Click + to add a property to hive-site, for example.

Add Custom Configurations ✕

Single and double quotes are not supported yet
Enter key values delimited by =
Comma separated for multiple values

5. Enter the name of the property you want to add, the equals symbol, and one or more comma-separated values.
Do not use single or double quotation marks to enclose the property or value.
6. Click Add.
7. Save, and restart the Database Catalog.
8. Click Virtual Warehouses, and select a Hive Virtual Warehouse.
9. Click Actions Edit Metastore HiveServer2 .

SIZING AND SCALING **CONFIGURATIONS**

Das webapp **Hiveserver2** Hue Query coordinator

hadoop-mapred-site ▼

10. Search for a specific property, or view categories of properties by selecting a category in the dropdown.

The screenshot shows a web interface for configuring properties. A dropdown menu is open, displaying a list of configuration keys. The key 'hive-kerberos-config' is highlighted with a blue bar and a checkmark. Below the dropdown, a table of configurations is visible, with columns for 'KEY' and 'VALUE'. The table contains several rows, including 'hive-site', 'hive-site-standalone-compute', 'hadoop-mapred-site', 'hive-log4j2', 'hive-beeline-log4j2', 'hive-kerberos-config', 'hive-atlas-config', 'tez-site', 'hive-llap-log4j2', 'hive-llap-log4j2-standalone-compute', 'hive-ranger-security', 'hive-ranger-audit', 'hive-ranger-policymgr', 'hadoop-core-site', 'hadoop-core-site-default-warehouse', and 'hive.auto.convert.sortmerge.join'. The 'VALUE' column shows 'true' for several keys and '1431655765' for 'hadoop-core-site'.

Configuring legacy CREATE TABLE behavior

After you upgrade to CDP Private Cloud Base and migrate old tables, the legacy CREATE TABLE behavior of Hive is no longer available by default and you might want to switch to the legacy behavior. Legacy behavior might solve compatibility problems with your scripts during data migration, for example, when running ETL.

About this task

In CDP, running a CREATE TABLE statement by default creates a full ACID table for ORC file format and insert-only ACID table for other file formats. You can change the default behavior to use the legacy CREATE TABLE behavior. When you configure legacy behavior, CREATE TABLE creates external tables with the purge functionality enabled (`external.table.purge = 'true'`). Therefore, when the table is dropped, data is also deleted from the file system.

You can configure legacy CREATE TABLE behavior at the site level by configuring properties in Cloudera Manager. When configured at the site level, the behavior persists from session to session.

Procedure

1. In Cloudera Manager, click Clusters and select the Hive on Tez service.

- From the Hive on Tez service, go to the Configuration tab and search for hive.create.

The screenshot shows the Cloudera Manager Configuration page for the service HIVE_ON_TEZ-1. The search bar at the top contains the text "hive.create". On the left, there are two filter sections: "SCOPE" and "CATEGORY". Under "SCOPE", "HIVE_ON_TEZ-1 (Service-Wide)" is selected with a count of 2. Under "CATEGORY", "Main" is selected with a count of 0. The main content area displays two configuration properties, both of which are checked for the selected service:

- Default Table Format - Create Tables as ACID Insert Only**: HIVE_ON_TEZ-1 (Service-Wide). The property name is `hive.create.as.insert.only` and the configuration value is `hive_create_as_insert_only`.
- Default Table Format - Create Tables as Full ACID**: HIVE_ON_TEZ-1 (Service-Wide). The property name is `hive.create.as.acid` and the configuration value is `hive_create_as_acid`.

- If the following properties are selected, clear the selection to enable legacy CREATE TABLE behavior.

- Default Table Format - Create Tables as ACID Insert Only (`hive.create.as.insert.only`)
- Default Table Format - Create Tables as Full ACID (`hive.create.as.acid`)

Results

Legacy behavior is enabled and the CREATE TABLE statement now creates external tables with the `external.table.purge table` property set to true.

Limiting concurrent connections

To prevent a rogue application from repeatedly connecting to and monopolizing HiveServer, you can limit concurrent connections to HiveServer.

About this task

As administrator, you can limit concurrent connections using the Cloudera Manager Safety Valve to add one or more of the following properties to the `hive-site.xml` configuration file:

hive.server2.limit.connections.per.user

Maximum number of HiveServer concurrent connections per user

hive.server2.limit.connections.per.ipaddress

Maximum number of HiveServer concurrent connections per IP address

hive.server2.limit.connections.per.user.ipaddress

Maximum number of HiveServer concurrent connections per user and IP address combination

The default of each parameter is 0. You can change the value of each parameter to any number. You must configure concurrent connections on the server side; therefore, a `hive --hiveconf` command does not work.

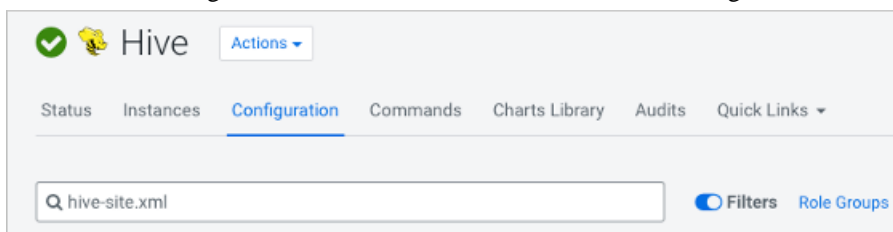
In this task, limit the number of connections per user to 25.

Before you begin

- The following components are running:
 - HiveServer
 - Hive Metastore
 - Hive client
- Minimum Required Role: Configurator (also provided by Cluster Administrator, Full Administrator)

Procedure

1. In Cloudera Manager Clusters select the Hive service. Click Configuration, and search for hive-site.xml.



2. In HiveServer2 Advanced Configuration Snippet (Safety Valve) for hive-site.xml, click + and add the hive.server2.limit.connections.per.user property.
3. Enter a value representing the maximum number of concurrent connections: for example 25.

4. Click Save.
5. Click Actions Deploy Client Configuration .
6. Restart HIVE.

Hive on Tez configurations

Understanding key Hive on Tez properties might help you tune performance or troubleshoot problems, such as running multiple TEZ Application Master (AM) when your default sessions configuration allows running only one. After upgrading, the number of default sessions allowed might be only one. Making Hive on Tez configuration changes is recommended for users who know what they are doing.

Property and Default Value	Description	How to Check and Configure
hive.server2.tez.default.queues (default: "default")	A list of comma separated values corresponding to YARN queues for which to maintain a Tez session pool	Use the Cloudera Manager Safety Valve. When specifying additional queues, they must already exist in YARN.
hive.server2.tez.sessions.per.default.queue (default:1)	<p>The number of Tez sessions (DAGAppMaster) to maintain in the pool per YARN queue</p> <p>The total number of concurrent Tez session running can be calculated with:</p> $(\text{Tez Sessions})_{\text{total}} = \text{HiveServer2instances} \times (\text{default.queues}) \times (\text{sessions.per.default.queue})$ <p>The pooled Tez Sessions are always running, even on an idle cluster.</p>	Use the Cloudera Manager Safety Valve. A value of 1 means only one query can run at a time

Property and Default Value	Description	How to Check and Configure
hive.server2.tez.initialize.default.sessions (default: false)	<p>If enabled, HiveServer (HS2), at startup, will launch all necessary Tez sessions within the specified default.queues to meet the sessions .per.default.queue requirements.</p> <p>Disable this property if you want to improve query performance and do not want to limit all the queries to the same Tez AM pool.</p> <p>You can enable this property and increase the sessions.per.default.queue value based on your resource availability and query concurrency/load on the server.</p>	Use the Cloudera Manager Safety Valve.

Related Information

[Custom Configuration \(about Cloudera Manager Safety Valve\)](#)

[Example of using the Cloudera Manager Safety Valve](#)

Configuring HiveServer high availability using a load balancer

To enable high availability for multiple HiveServer (HS2) hosts, you need to know how to configure a load balancer to manage them. First, you configure the Hive Delegation Token Store, next you add HS2 roles, and finally, you configure the load balancer.

About this task

HiveServer HA does not automatically fail and retry long-running Hive queries. If any of the HS2 instances fail, all queries running on that instance fail and are not retried. The client application must re-submit the queries.

After you enable HS2 high availability, ensure that all your clients reflect the load balancer's principal in the connection string. On Kerberos-enabled clusters, you must use the load balancer's principal to connect to HS2 directly; otherwise, after you enable HS2 high availability, direct connections to HS2 instances fail.

Before you begin

Minimum Required Role: Configurator (also provided by Cluster Administrator, Full Administrator)

Configuring the Hive Delegation Token Store

You need to enable Hive Delegation Token Store implementation as the first step in configuring HiveServer high availability using a load balancer. You also need to understand the interaction between Oozie and HS2 with regard to the delegation token.

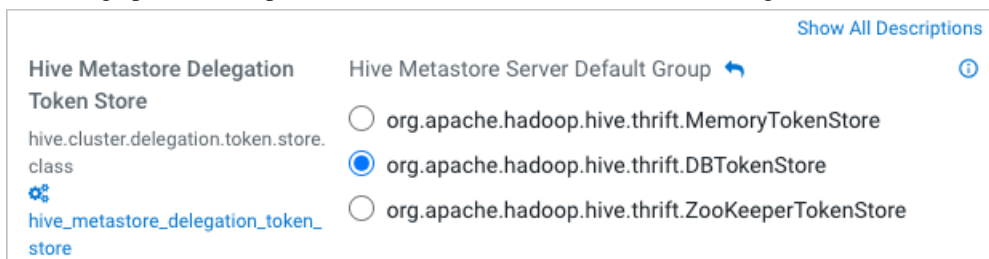
About this task

Oozie needs this implementation for secure HiveServer high availability (HA). Otherwise, the Oozie server can get a delegation token from one HS2 server, but the actual query might run against another HS2 server, which does not recognize the HS2 delegation token.

Procedure

1. In Cloudera Manager, click **Clusters Hive Configuration**.

2. Take one of the following actions:
 - If you have a cluster secured by Kerberos, search for Hive Delegation Token Store, which specifies storage for the Kerberos token as described below.
 - If you have an unsecured cluster, skip the next step.
3. Select `org.apache.hadoop.hive.thrift.DBTokenStore`, and save the change.



The screenshot shows a configuration page for 'Hive Metastore Delegation Token Store'. The property name is `hive.cluster.delegation.token.store.class`. There are three radio button options:

- `org.apache.hadoop.hive.thrift.MemoryTokenStore`
- `org.apache.hadoop.hive.thrift.DBTokenStore`
- `org.apache.hadoop.hive.thrift.ZooKeeperTokenStore`

 A 'Show All Descriptions' link is visible in the top right corner.

Storage for the Kerberos delegation token is defined by the `hive.cluster.delegation.token.store.class` property. The available choices are Zookeeper, the Metastore, and memory. Cloudera recommends using the database by setting the `org.apache.hadoop.hive.thrift.DBTokenStore` property. Do not use the `MemoryTokenStore`. This can cause failures because one HS2 does not recognize the delegation token issued by another.

4. Add HiveServer (HS2) roles as described in the next topic.

Adding a HiveServer role

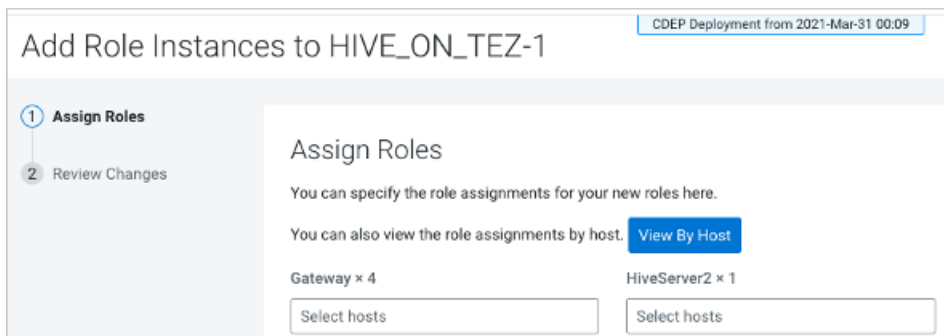
You can add a HiveServer (HS2) role to the Hive-on-Tez service, not to the Hive service.

Before you begin

You configured the Hive Delegation Token Store.

Procedure

1. In Cloudera Manager, click **Clusters** **Hive on Tez** .
Do not click **Clusters Hive** by mistake. Only the Hive on Tez service supports the HiveServer2 role.
2. Click **Actions** **Add Role Instances** .



The screenshot shows the 'Add Role Instances to HIVE_ON_TEZ-1' dialog. The 'Assign Roles' step is active. The dialog contains the following text:

- Assign Roles**
- You can specify the role assignments for your new roles here.
- You can also view the role assignments by host. [View By Host](#)
- Gateway x 4
- HiveServer2 x 1
- Select hosts (input field)
- Select hosts (input field)

 A 'CDEP Deployment from 2021-Mar-31 00:09' timestamp is visible in the top right corner.

- Click in the HiveServer2 box to select hosts.

<input type="checkbox"/>	Hostname	IP Address	Rack	Cores	Physical Memory	Existing Roles
<input checked="" type="checkbox"/>	nightly7x-unsecure-1.nightly7x-unsecure.root.hwx.site	172.27.75.0	/default	64	503.6 GiB	CCS G HB... M G HS2 LB HS AP ES HM RM SCM QS SRS SS G JHS RM
<input type="checkbox"/>	nightly7x-unsecure-2.nightly7x-	172.27.75.2	/default	64	503.6 GiB	RS DN G G NM SS G G

- In the Host name column, select a host for the HiveServer2 role, and click OK. The selected host name you assigned the HiveServer2 role appears under HiveServer2.

Assign Roles

You can specify the role assignments for your new roles here.

You can also view the role assignments by host. [View By Host](#)

Gateway × 4 HiveServer2 × (1 + 1 New)

Select hosts

- Click Continue. The new HiveServer2 role state is stopped.

- Select the new HiveServer2 role.

Actions for Selected (1) ▾				
<input type="checkbox"/>	Status	Role Type	State	Hostname
<input checked="" type="checkbox"/>		HiveServer2	Stopped	nightly7x-unsecure-2.
<input type="checkbox"/>		HiveServer2	Started	nightly7x-unsecure-1.

- In Actions for Selected, select Start, and then click Start to confirm. You see that the service successfully started.

Start

Status **Finished** Context [HiveServer2 \(nightly7x-unsecure-2\)](#) Apr 1, 3:08:53 AM

23.15s

Successfully started service.

✓ **Completed 1 of 1 step(s).**

Show All Steps
 Show Only Failed Steps
 Show Only Running Steps

> Starting 1 roles on service

Configuring the HiveServer load balancer

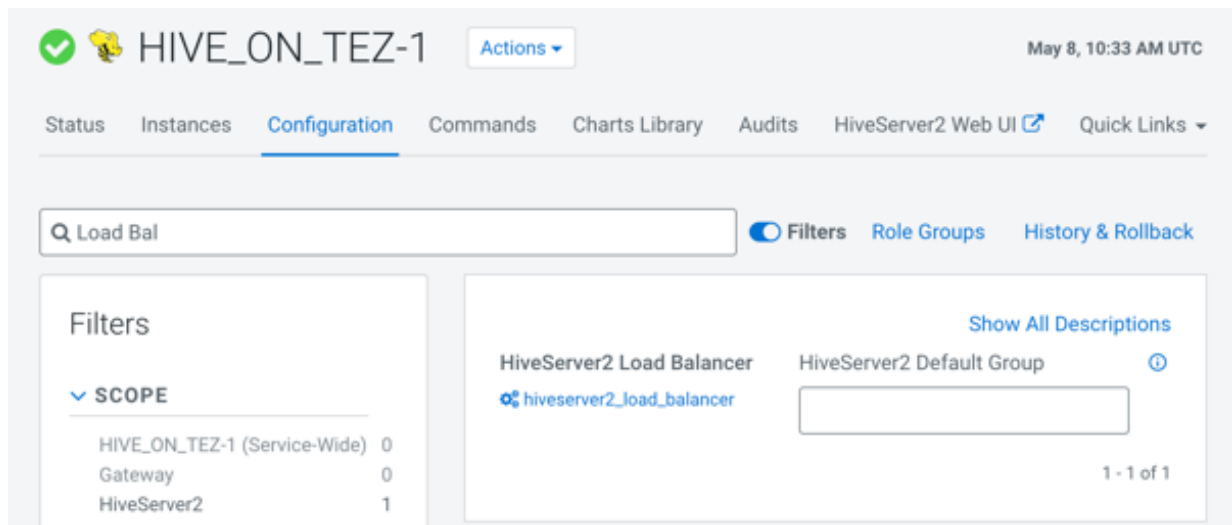
Cloudera Manager exposes the HiveServer load balancer property. You see how to access the property and set it.

Before you begin

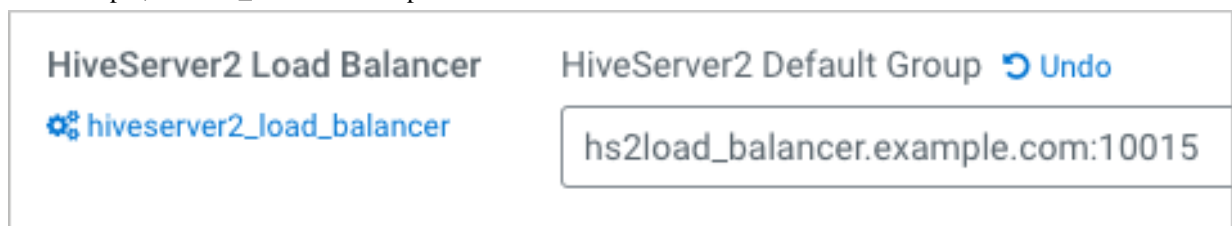
- You configured the Hive Delegation Token Store.
- You added one or more HiveServer roles.

Procedure

1. In Cloudera Manager, click Clusters Hive On Tez Configuration , and search for HiveServer2 Load Balancer.



2. Set the value, using the following format: <hostname>:<port number>.
For example, hs2load_balancer.example.com:10015.



3. Save the change.

Configuring HiveServer high availability using ZooKeeper

You need to know how to configure your Hive-on-Tez to use ZooKeeper for HiveServer high availability.

When you add one or more additional HiveServer (HS2) role instances to the Hive-on-Tez service, the multiple role instances can register themselves with ZooKeeper. The JDBC client (client driver) can find a HiveServer through ZooKeeper. Using Beeline, you connect to Hive, and the ZooKeeper discovery mechanism locates and connects to one of the running HiveServer instances.

If more than one HiveServer instance is registered with ZooKeeper, and all instances fail except one, ZooKeeper passes the link to the instance that is running and the client can connect successfully. Failed instances must be restarted manually.

Automatic failover does not occur. If an HS2 instance failed while a client is connected, the session is lost. Since this situation needs to be handed at the client, there is no automatic failover; the client needs to reconnect using ZooKeeper.

Using binary transport mode in HiveServer (HS2), Knox, and Dynamic Discovery, possibly supported on your platform before upgrading to CDP, are not supported on CDP. Use alternate solutions, such as HAProxy.

Related Information

[Adding a Role Instance](#)

Generating Hive statistics in Cloudera Data Warehouse

A cost-based optimizer (CBO) generates efficient query plans. Hive does not use the CBO until you generate column statistics for tables. By default, Hive gathers only table statistics. You need to configure Hive to enable gathering of column statistics.

The CBO, powered by Apache Calcite, is a core component in the Hive query processing engine. The CBO optimizes plans for executing a query, calculates the cost, and selects the least expensive plan to use. In addition to increasing the efficiency of execution plans, the CBO conserves resources.

How the CBO works

After parsing a query, a process converts the query to a logical tree (Abstract Syntax Tree) that represents the operations to perform, such as reading a table or performing a JOIN. Calcite applies optimizations, such as query rewrite, JOIN re-ordering, JOIN elimination, and deriving implied predicates to the query to produce logically equivalent plans. Bushy plans provide maximum parallelism. Each logical plan is assigned a cost that is based on distinct, value-based heuristics.

The Calcite plan pruner selects the lowest-cost logical plan. Hive converts the chosen logical plan to a physical operator tree, optimizes the tree, and converts the tree to a Tez job for execution on the Hadoop cluster.

Explain plans

You can generate explain plans by running the EXPLAIN query command. An explain plan shows you the execution plan of a query by revealing the operations that occur when you run the query. Having a better understanding of the plan, you might rewrite the query or change Tez configuration parameters.

Setting up the cost-based optimizer and statistics

You can use the cost-based optimizer (CBO) and statistics to develop efficient query execution plans that can improve performance. You must generate column statistics to make CBO functional.

About this task

In this task, you enable and configure the cost-based optimizer (CBO) and configure Hive to gather column statistics as well as table statistics for evaluating query performance. Column and table statistics are critical for estimating predicate selectivity and the cost of the plan. Certain advanced rewrites require column statistics.

In this task, you check, and set the following properties:

- `hive.stats.autogather`
Controls collection of table-level statistics.
- `hive.stats.fetch.column.stats`
Controls collection of column-level statistics.
- `hive.compute.query.using.stats`
Instructs Hive to use statistics when generating query plans.

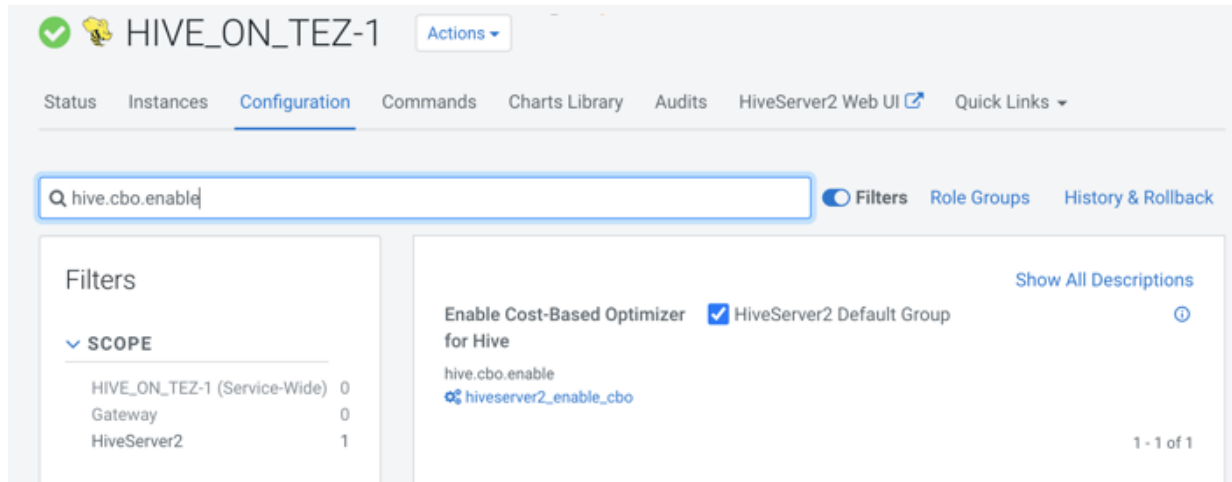
You can manually generate the table-level statistics for newly created tables and table partitions using the ANALYZE TABLE statement.

Before you begin

- The following components are running:
 - HiveServer
 - Hive Metastore
 - Hive clients
- Minimum Required Role: Configurator (also provided by Cluster Administrator, Full Administrator)

Procedure

1. In Cloudera Manager, click Clusters Hive On Tez Configuration .
2. In the Configuration page, search for the `hive.cbo.enable` property.



If the property is not visible in your version of Cloudera Manager, add the property to Hive site using the Cloudera Manager Safety Valve (see links below). Set the property to enabled.

3. Accept the default (enabled), or check to enable the `hive.cbo.enable` property for the HiveServer Default Group.
4. Search for and enable, if necessary, `hive.stats.fetch.column.stats`.
5. Search for and enable, if necessary, `hive.compute.query.using.stats`.
6. Click **Actions Restart** to restart the Hive on Tez service.

Related Information

[Example of using the Cloudera Manager Safety Valve](#)

[Custom Configuration \(about Cloudera Manager Safety Valve\)](#)

Generate and view Apache Hive statistics in Cloudera Data Warehouse

You can use statistics to optimize queries for improved performance. The cost-based optimizer (CBO) also uses statistics to compare query plans and choose the best one. By viewing statistics instead of running a query, you can often get answers to your data questions faster.

About this task

This task shows how to generate different types of statistics about a table.

Procedure

1. Launch a Hive shell or editor.

2. Gather table statistics for the non-partitioned table mytable:

```
ANALYZE TABLE mytable COMPUTE STATISTICS;
```

3. View table statistics you generated:

```
DESCRIBE EXTENDED mytable;
```

4. Gather column-level statistics for the table:

```
ANALYZE TABLE mytable COMPUTE STATISTICS FOR COLUMNS;
```

5. View column statistics for the col_name column in my_table in the my_db database:

```
DESCRIBE FORMATTED my_db.my_table col_name;
```

Related Information

[Apache Hive Wiki language reference](#)

[Apache Hive Wiki - Statistics in Hive](#)

Statistics generation and viewing commands in Cloudera Data Warehouse

You can manually generate table and column statistics, and then view statistics using Hive queries. By default, Hive generates table statistics, but not column statistics, which you must generate manually to make cost-based optimization (CBO) functional.

Commands for generating statistics

The following ANALYZE TABLE command generates statistics for tables and columns:

```
ANALYZE TABLE [table_name] COMPUTE STATISTICS;
```

Gathers table statistics for non-partitioned tables.

```
ANALYZE TABLE [table_name] PARTITION(partition_column) COMPUTE STATISTICS;
```

Gathers table statistics for partitioned tables.

```
ANALYZE TABLE [table_name] COMPUTE STATISTICS for COLUMNS [comma_separated_column_list];
```

Gathers column statistics for the entire table.

```
ANALYZE TABLE partition2 (col1="x") COMPUTE STATISTICS for COLUMNS;
```

Gathers statistics for the partition2 column on a table partitioned on col1 with key x.

Commands for viewing statistics

You can use the following commands to view table and column statistics:

```
DESCRIBE [EXTENDED] table_name;
```

View table statistics. The EXTENDED keyword can be used only if the hive.stats.autogather property is enabled in the hive-site.xml configuration file. Use the Cloudera Manager Safety Valve feature (see link below).

```
DESCRIBE FORMATTED [db_name.]table_name [column_name] [PARTITION (partition_spec)];
```

View column statistics.

Related Information

[Example of using the Cloudera Manager Safety Valve](#)

[Custom Configuration \(about Cloudera Manager Safety Valve\)](#)

Removing scratch directories

You need to know how to periodically clear scratch directories used by Apache Hive to prevent problems, such as failing jobs.

About this task

Scratch directories where Hive stores intermediate, or temporary, files accumulate too much data over time and overflow. You can configure Hive to remove scratch directories periodically and without user intervention. Using Cloudera Manager, you add the following properties as shown in the procedure:

hive.start.cleanup.scratchdir

Value: true

Cleans up the Hive scratch directory while starting the HiveServer.

hive.server2.clear.dangling.scratchdir

Value: true

Starts a thread in HiveServer to clear out the dangling directories from the file system, such as HDFS.

hive.server2.clear.dangling.scratchdir.interval

Example Value: 1800s

Procedure

1. In Cloudera Manager, click **Clusters** **Hive on Tez Configuration** . **Clusters** > **Hive on Tez** > **Configuration**.
2. Search for the **Hive Service Advanced Configuration Snippet (Safety Valve) for hive-site.xml** setting.
3. In the **Hive Service Advanced Configuration Snippet (Safety Valve) for hive-site.xml** setting, click **+**.
4. In **Name** enter the property name and in **value** enter the value.