

Workload XM 2.3.0

## Workload XM Release Notes

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# Contents

- What's new in Workload XM?..... 4**
  - Workload XM release 2.3.0..... 4
  - Workload XM release 2.2.2..... 4
  - Workload XM release 2.2.1..... 5
  - Workload XM release 2.2.0..... 5
- Known Issues..... 6**
- Fixed Issues..... 6**

## What's new in Workload XM?

This section lists the major features and updates for Workload XM.

### Workload XM release 2.3.0

This release provides the following additional features and functionality improvements:

#### Trigger actions across more service modules with the new and improved Workload XM Auto Actions

You can now trigger actions across more service modules on your workload applications, jobs, and queries with the Workload XM Auto Actions feature. Action notifications can act as checkpoints that help you monitor your workloads. They alert you with an email when you need to apply a corrective action, or they can alert you with an email and trigger an action that kills the application, job, or query.

New and improved changes include:

- A new auto action that enables you to kill an application, job, or query.
- Added support for defining auto actions specifically for Hive, Impala, MapReduce, and Spark.
- Additional conditions and operators that help you define your action's threshold value.

Additionally, all auto action events are now recorded in an Audit log to help you manage and troubleshoot your Workload XM auto actions.

#### Display and monitor the state, activity, and performance of your Workload XM cluster services with the new Workload XM metric charts and Health Checks

The Workload XM metrics collect information that measure the state, activity, and performance of the Workload XM cluster services. The metrics are visually displayed as charts in the Workload XM Cluster and the Workload XM Cluster Services pages from the Cloudera Manager Admin Console. Each metric chart can be opened to display more detailed information for further analysis.



**Note:** The Workload XM cluster services metrics are viewable in Cloudera Manager version 7.5.3 and above. They also require Workload XM version 2.2.2 or 2.3.0 and the latest version of Telemetry Publisher.

You can also manually build a Workload XM metric chart in Cloudera Manager using the Cloudera Manager Chart builder and the Workload XM services metric name. For more information, see [Related Information](#).

#### Related Information

[Triggering Actions across Jobs and Queries](#)

[Understanding the Workload XM Cluster Services Metrics](#)

[Workload XM Cluster Services Metrics](#)

[Workload XM Cluster Services Health Checks](#)

### Workload XM release 2.2.2

There are no new features or functionality improvements in the Workload XM 2.2.2 release. For more information, see [Fixed Issues](#).

#### Related Information

[Issues fixed in Workload XM 2.2.2](#)

## Workload XM release 2.2.1

This release provides the following additional features and functionality improvements:

### Remove obsolete HDFS files Manually with the Workload XM Purge Event

Reduce bottlenecks between Telemetry Publisher and Workload XM, by manually running a Workload XM purge event. The Workload XM purge feature now enables you to manually remove obsolete HDFS data that could cause a backlog or block Telemetry Publisher from ingesting and sending newer data to Workload XM. The purge event is based on the file's data group and the data group's retention limit.

### Control user access with the Workload XM Role Based Access Control (RBAC) feature

Control the security and access management of your Workload XM environment by assigning Workload XM roles with the Role Based Access Control (RBAC) feature.

Workload XM now supports cluster privilege role types that define who is entitled to access jobs and queries that are created by the user, who is entitled to create and administer cost centers and view cluster costs, and who is entitled to access and administer jobs and queries within either a specific cluster or across all clusters within the Workload XM environment.

Limiting the trust boundary for jobs, queries, cluster costs, and administrative management at the cluster level, enables more control over the security and access management of your Workload XM environment.

### Related Information

[Assigning Access Roles in Workload XM](#)

[Manually Executing a Workload XM Purge Event](#)

## Workload XM release 2.2.0

This release provides the following additional features and functionality improvements:

### Analyze your cluster, job, and query costs with the Workload XM Chargeback feature

Easily define customized cost centers with the Chargeback feature. Once defined Workload XM visually displays a cluster's current and historical costs. This new feature enables you to create Workload XM cost centers for your workload clusters based on user or pool resource criteria and CPU and memory consumption. Once created you can then plan and forecast budgets and future workload environments and/or justify current user groups and resources using your Workload cluster's cost insights.

### Trigger action events across your jobs and queries with the Workload XM Auto Actions - Notifications feature

This new feature triggers an action event in real-time based on your criteria. When a job or query meets your action's criteria and its conditions exist the action's event is triggered. For example, memory exhaustion can cause nodes to crash or jobs to fail. Knowing when available memory is falling below a specific threshold enables you to take steps before a potential problem occurs. With the Auto Actions feature, you can create an action that informs you through an email when a job is consuming too much memory so that you can take steps to alleviate a potential problem.

### Remove obsolete HDFS files with the Workload XM Purge Event

Reduce bottlenecks between Telemetry Publisher and Workload XM, by configuring and scheduling the new Workload XM purge event. This feature enables you to remove obsolete HDFS data that could cause a backlog or block Telemetry Publisher from ingesting and sending newer data to Workload XM. The purge event is based on the file's data group and the data group's retention limit.

### Control user access with the Workload XM Role Based Access Control (RBAC) feature

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Limiting the trust boundary for jobs, queries, cluster costs, and administrative management at the cluster level, enables more control over the security and access management of your Workload XM environment.

### Display and monitor your cluster and its services memory consumption with the new resource consumption widgets in the Summary page

- Resource Consumption By Services, displays the CPU and memory consumption for each service across the time range you selected. Hover your mouse over the time line, to display the amount of CPU or memory, as a percentage, that is consumed by each of the cluster's services.
- Resource Consumption By Nodes, displays the CPU and memory consumption for each node in the cluster. Hover your mouse over the time line, to display the amount of CPU or memory, as a percentage, that is consumed by each node and its services.

#### Related Information

[Analyzing Your Workload Cluster Costs with Workload XM Cost Centers](#)

[Triggering an Action across Jobs and Queries](#)

[Purging HDFS Data](#)

[Identify and Address Resource Contentions](#)

## Known Issues

Current known issues and limitations in Workload XM.

At this time, there are no known issues.

## Fixed Issues

Lists the issues that were fixed in the Workload XM 2.2.2 release.

### log4j2-CVE-2021-44228

The embedded Apache Log4j version was upgraded in the Workload XM 2.2.2 release to version 2.17.0, which provides a permanent fix for the log4j2-CVE-2021-44228 vulnerability.