Cloudera Observability

Cloudera Observability Release Notes

Date published: 2023-04-31
Date modified: 2024-12-20

https://docs.cloudera.com/

Legal Notice

Contents

Release Summary

Cloudera Observability is Cloudera's single pane of glass observability solution, continually discovering and collecting performance telemetry across data, applications, and infrastructure components running in all your Cloudera deployments on private and public clouds. It enables you to interactively explore and understand your existing environments, data services, workloads, clusters, and resources running in Cloudera.

With advanced intelligent analytics and correlations, it provides insights and easy to follow recommendations that reduce time to resolution of complex issues, help manage and optimize costs, and improve performance. Cloudera Observability also supports better financial governance by tracking and reporting on the costs associated with your business' cost centers.

Cloudera Observability helps Administrators and Developers to:

- **Watch and protect against budget overruns** with its financial governance capabilities, allowing you to define cost centers and chargeback reports.
- **Keep workloads and services healthy** with active system monitoring, so you not only know what's going on right now, you'll be comparing to previous trends and historical analysis, to predict issues before they happen, receive alerts to take actions, and get automatic mitigations when possible.
- **Improve performance** with automations that help things run as best as they can, helping you optimize resource utilization and improve performance. With recommendations, you'll get insights into how to tune, and with custom automatic actions, Cloudera can be configured to auto-tune, your way.
- **Maintain end to end health** by identifying and eliminating service bottlenecks that impact performance, while also ensuring your entire system, from infrastructure to platform, and workload, is healthy and optimized.
- **Get actionable insights** through self-service analytics, putting easy to use visualizations into everyone's hands.

Cloudera Observability also helps you get better support. When telemetry is sent to the online service, it's shareable with Cloudera technical support. This dramatically shortens the troubleshooting time and helps you partner with your support team to get faster time to resolution on the more complex issues that may arise.

Cloudera Observability collects and visualizes a wide range of metrics and health tests, enabling you to do the following:

- Gain insights on current and completed workload jobs and queries, resource consumption, and system performance from a wide range of metrics.
- Identify bottlenecks, performance, and resource health issues from a wide range of health tests.
- Address performance issues with performance tuning and prescriptive guidance and recommendations.
- Gain visibility into the workload resource costs of your environment's infrastructure with the Financial Governance Chargeback feature.
- Achieve faster resolution and minimal downtime for support cases by providing read-only troubleshooting access to Cloudera Support with the Expedited Support feature.
- Define workload thresholds and consumption rules, create actions and alerts, and securely control user access, with the Workload Views and Access Management features.

Cloudera Observability has two tiers:

- **Cloudera Observability Essential**:

  Available free of charge, which provides a number of valuable capabilities for self-service troubleshooting and a limited set of mitigation and auto action features. Essential also supports expedited support case resolution.
- **Cloudera Observability Premium**:

  A licensed tier that extends self-service insights further while providing full access to powerful, automated optimization.

In this release, we deliver observability covering Hive, Impala, MapReduce, Oozie, and Spark.

Related Information

What is Expedited Support
Triggering actions across jobs and queries
Analyzing your environment costs with Cloudera Observability cost centers
Classifying workloads for analysis with workload views
Managing user access to workloads
Hive, MapReduce, Oozie, and Spark Health Checks
Impala Health Checks
Cloudera Observability Hive Cluster Metrics

Known Issues

Current known issues and limitations in Cloudera Observability.

Cloudera AI secret key expiration impacts workload data collection

The Cloudera AI secret key expires every 24 hours. The key is renewed automatically through an internal scheduled process. If the key expires while the Cloudera AI workspace is suspended, it does not refresh immediately upon resuming. This delay causes a temporary halt in workload data collection for Cloudera Observability. The automated Cloudera AI process refreshes the key within 12 hours, and data collection resumes. You can view the error in the logs when the secret expires.

The automatic key refresh runs every 12 hours at 00.00 UTC and 12.00 UTC. To avoid issues, ensure your workspace is active during these times.

This issue is fixed in Cloudera Machine Learning Workspace 2.0.46 and higher.

Exporting of Impala queries fail for Telemetry Publisher with Cloudera Manager 7.11.3

Telemetry Publisher for Impala queries does not work with Cloudera Manager7.11.3

Upgrade Cloudera Manager from 7.11.3 to 7.11.3 cumulative hotfix 6 (CHF6) version to successfully export Impala queries.

Telemetry publisher test altus connection fails for Cloudera Manager 7.11.3 hotfix (CHF6, 7, and 8) versions

Test connection fails with the following error:

```
Exception in thread "main" java.lang.NoSuchMethodError: 'com.goo
gle.common.collect.ImmutableSet com.google.common.collect.Immuta
bleSet.copyOf(java.util.Collection)'
 at com.cloudera.cdp.http.HttpCodesRetryChecker.<init>(HttpCode
sRetryChecker.java:57)
 at com.cloudera.cdp.client.CdpClientConfigurationBuilder.<init>(
CdpClientConfigurationBuilder.java:53)
 at com.cloudera.cdp.client.CdpClientConfigurationBuilder.default
Builder(CdpClientConfigurationBuilder.java:400)
 at com.cloudera.cdx.client.TestDatabusConnection.main(TestDatab
usConnection.java:55)
```

This issue only affects the test connection method.

Upgrade Cloudera Manager to 7.11.3 cumulative hotfix 9 (CHF9) version, and then start Telemetry Publisher.

Auto Action trigger for Impala Engine

Impala Auto Action triggers do not work for the Kerberos-enabled Private Cloud base cluster running onCloudera Manager 7.9.5 and 7.11.3.

Upgrade Cloudera Manager to 7.11.3 cumulative hotfix 9 (CHF9) version.

Interruption of Observability data flow due to HiveServer node failure

In multiple Hive server instances (Active-Active), if one of the Hive server nodes hosting the main OpenTelemetry (OTel) pipeline fails, data flow to Cloudera Observability stops.

Refresh the cluster in Cloudera Manager. If the refresh cluster does not work, restart the Hive server.

For information, see *Starting, Stopping, Refreshing, and Restarting a Cluster* and *Restarting a Cloudera Runtime Service* in Cloudera Manager documentation.

Related Information

Starting, Stopping, Refreshing, and Restarting a Cluster

Restarting a Cloudera Runtime Service

Fixed Issues

Lists the issues that were fixed in the Cloudera Observability release.

OBS-5212: Spark jobs are not shown on the Jobs & Queries tab of the Cloudera Observability Real-time monitoring user interface

The issue occurs when CDP Data Hub clusters are created with versions from 7.2.18.100 to 7.2.18.400. The issue has been fixed on CDP Data Hub version 7.2.18.500 or higher.