Cloudera Manager 7.0.2

Release Notes

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Contents

What's New in Cloudera Manager 7.0.2

This topic describes new features in Cloudera Manager.

Core Configuration Service

The Core Configuration service allows you to create more types of clusters without having to include the HDFS service. Previously, the HDFS service was required in many cases even when data was not being stored in HDFS because some services like Sentry and Spark required cluster-wide configuration files that Cloudera Manager deploys within the HDFS service. The Core Configuration service provides this configuration in a standalone fashion and thus eliminates the need for an HDFS service for certain types of clusters where no HDFS storage is required (e.g. Kudu, Kafka, or 'Compute' clusters using exclusively object storage like S3 or ADLS). The Core Configuration service is also useful when creating a Compute cluster that accesses data on an HDFS service located in the Base cluster.

"Impala for Compute" and "Spark for Compute" no longer require HDFS. You can define the Core Configuration Service instead.

Metric Filtering

Metrics Filters allow you to limit the amount of metric data sent to the Cloudera Manager Service Monitor. In large clusters, some services, such as Kudu, send a high volume of non-essential metrics data to the Service Monitor, which can overload it, causing gaps in the data reported from these metrics in charts, dashboards, and metric queries, and potentially limiting the ability for Cloudera Manager to effectively monitor cluster health. To mitigate this problem, you can configure Metric Filters that limit the amount of data sent to the Service Monitor. You can configure Metric Filters for any service deployed in a cluster.

See Filtering Metrics

YARN Scheduler

The default scheduler in the YARN Resource Manager is set to Capacity Scheduler. Preemption, Node Labels, Queue Mutation API, and Asynchronous Scheduling are enabled by default.

Solr, HBase, and Kudu on Compute Clusters

Creation of Solr, HBase and Kudu services on Compute Clusters is now enabled.

LDAP authentication for Kafka clients

You can now configure LDAP to allow Kafka clients to authenticate using LDAP.

Auto TLS

You can now use Cloudera Manager to Automatically configure TLS for your clusters.

HTTP Strict-Transport-Security

When TLS is enabled for the Cloudera Manager Admin Console, web requests now include the HTTP Strict-Transport-Security header. For more details about this header, see Strict-Transport-Security (Mozilla).

Diagnostic Bundle Changes

The value of the Cloudera Manager parameter CDP_ENVIRONMENT now appears in support bundles from Data Center deployments.

Ranger Service and Kafka

The Ranger service name for Kafka clusters is now configurable. The default (and initialized) value is cm_kafka.

Cloudera Manager Licensing

When a license for Cloudera Manager expires, or the trial period expires, access to the Cloudera Manager Admin Console will be limited to only the license page until you install a new valid license. The Cloudera Manager Admin Console features will no longer be disabled, but you will be unable to view or modify those features from the Cloudera Manager Admin Console.

New Health Tests

- LDAP connections. The LDAP health check requires you to set a bind user to enable monitoring.
- Key Distribution Center (KDC) connections. The KDC health check requires Cloudera Manager Server to use Kerberos to enable monitoring.

New configuration parameters for Azure

Two new core-site configurations have been added to support delegation token collection on Azure cloud storage:

- fs.azure.identity.transformer.service.principal.substitution.list
- fs.azure.identity.transformer.service.principal.id

New Kafka Metric

A new metric has been added to the Kafka service for JVM Garbage Collection Rate: kafka_jvm_gc_runs.

New notification suppression parameters

Notification suppression parameters for role-level validators are now available.

Redaction in Cloudera Manager API

Previously redaction was opt-in through a JVM parameter, causing major security concerns. Customers relying on the API for backups now have a viable alternative that does not rely on exposing passwords via the API.

Cloudera Manager User Interface Improvements

Cluster-level Configuration History

Configuration changes across all the services in a cluster are now shown in a single screen. The new configuration screen now has a search function and time-based filters.

Configuration Page Changes

- You can now toggle display of the filters on and off.
- When entering name/value pairs for environment Advanced Configuration Snippets has been enhanced with name and value fields.
- The Reason for change field is now populated automatically. You can override the field or add to the automatically-generated text.
- You can now use CNTRL + S to save configuration changes.

All Hosts Page

You can now toggle display of the filters on and off. There is a new refresh button and the page refreshes automatically every 90 seconds.

Global Search

The global search function (accessible from the left navigation menu) has been enhanced with improved sorting of results.

Fixed Issues in Cloudera Manager 7.0.2

This topic lists the issues that have been fixed in Cloudera Manager since the previous release of Cloudera Manager.

OPSAPS-52782: Compute cluster services were receiving client configurations from unrelated services.

This fix may result in staleness in compute clusters after upgrading.

OPSAPS-51856: Single User Mode (SUM) is not supported in Cloudera Manager 7

The following Cloudera Manager global parameters are no longer supported and are not visible in the Cloudera Manager Admin Console:

"Enable Single User Mode", "Single User Mode User", "Single User Mode Group".

These parameters correspond to the following API parameter names: config.scm.single_user_enabled, config.scm.single_user_name, and config.scm.single_user_group.

Customers using Single User Mode in Cloudera Manager 5 installations should migrate out of Single user mode prior to upgrading to Cloudera Manager 6 or 7. Please contact Cloudera support before upgrading for help in this.

OPSAPS-35664: Added two new health checks

One for LDAP connection and one for KDC connection. The LDAP health check requires you to set a bind user to enable monitoring. The KDC health check requires Cloudera Manager Server to use Kerberos to enable monitoring.

OPSAPS-50104: Disabled support for Server Name Indication(SNI) in Cloudera Manager

To avoid the following issues when interacting with the below clients: - Chrome This site can’t provide a secure connectionhost-10-17-100-224.coe.myco.com uses an unsupported protocol.ERR_SSL_VERSION_OR_CIPHER_MISMATCH - Firefox Secure Connection Failed. An error occurred during a connection to host-10-17-100-224.coe.myco.com:7183. Cannot communicate securely with peer: no common encryption algorithm(s). Error code: SSL_ERROR_NO_CYPHER_OVERLAP - curl (curl-7.29.0-46) * NSS error -12286 (SSL_ERROR_NO_CYPHER_OVERLAP) * Cannot communicate securely with peer: no common encryption algorithm(s). * Closing connection 0 curl: (35) Cannot communicate securely with peer: no common encryption algorithm(s).

OPSAPS-44883: Fixed the issue when the DB statement fails with the following error while installing or upgrading Cloudera Manager:

"Key column 'REVISION_ID' doesn't exist in table" Description

OPSAPS-53041:

Fixed an issue that occurred when using very long host names (possibly caused by very long SDX environment names). This sometimes caused an error when generating TLS certificates.

OPSAPS-52953:

Fixed an issue that occurred when Auto-TLS is enabled. You might encounter a "no valid keystore" error when starting the HBase Thrift Server

OPSAPS-52445:

The property atlas.kafka.bootstrap.servers is no more required to be a manual input from user, it will be calculated from back-end by Cloudera Manager and will be populated with appropriate value of Kafka bootstrap servers.

OPSAPS-52897: The default scheduler in YARN Resource Manager is set to CapacityScheduler

Preemption, Node Labels, Queue Mutation API and Asynchronous Scheduling are enabled by default.

OPSAPS-47386:

Leading and trailing whitespace is now trimmed from user names when creating new users either form the Cloudera Manager Admin Console the Cloudera Manager API v40+

OPSAPS-51487: Users are now able to collect an Application Bundle of Yarn applications that uses the IndexedFile log aggregation format