

Cloudera Manager 7.11.0

Release Notes

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Cloudera Manager 7.11.0 Release Notes

Known issues, fixed issues and new features for Cloudera Manager 7.11.0.

What's New in Cloudera Manager 7.11.0

New features and changed behavior for Cloudera Manager 7.11.0.

OPSAPS-66992: Cloudera Manager 7.11.0 supports Python 3.8

Cloudera Manager 7.11.0 adds support for using Python 3.8 with the Cloudera Manager agents. Python 3.8 is required for using Cloudera Manager 7.11.0. Cloudera Manager 7.11.0 is supported only on Python 3.8. In this release of Cloudera Manager 7.11.0, the Cloudera Manager Agent requires Python 3.8 instead of Python 2 for the below listed platforms. Python 3.8 is only supported with the following operating systems:

- RHEL 8.4
- RHEL 7.9

OPSAPS-66217: ZooKeeper-less connection support for HBase clients

Clients are required to connect to ZooKeeper to find the location of the RegionServer that hosts the meta table region. Site configuration provides the client a list of ZooKeeper quorum peers and the client uses an embedded ZooKeeper client to query meta location.

New configuration settings are introduced in Cloudera Manager that provide a list of well-known master and backup master locations, and with this information the client can contact any of the master processes directly. Any master in either active or passive state tracks meta location and responds to requests for it with its cached last known location. This removes the dependency of ZooKeeper client from HBase clients and also simplifies the firewall configuration to access HBase.

Fixed Issues in Cloudera Manager 7.11.0

Fixed issues in Cloudera Manager 7.11.0.

OPSAPS-67031: Increase the hive split threads to 64 for AWS and GCP

This fix addresses a performance issue for Ranger Raz with specific cloud providers. As part of this fix, the default value for Hive split processing threads (`hive.compute.splits.num.threads`) is increased to 64. This change affects only Amazon Web Services (AWS) and Google Cloud Platform (GCP) deployments.

OPSAPS-64882: Upgraded PostgreSQL version

The PostgreSQL version is upgraded from 42.2.24.jre7 to 42.5.1 version to fix CVE issues.

OPSAPS-65870: Log4J 1.2.17 replaced with Reload4J

In this release, Cloudera has replaced all Apache Log4j 1.2.x logging libraries included with Cloudera Manager 7.9.0 with equivalent Reload4j libraries.

OPSAPS-64033: Upgraded Bouncy Castle version

The Bouncy Castle version is upgraded to 1.70 version to fix CVE issues.

OPSAPS-66508: Upgraded commons-codec version

The commons-codec version is upgraded to 1.15 version to fix CVE issues.

OPSAPS-66388: Upgraded commons-fileupload version

The commons-fileupload version is upgraded to 1.5 version to fix CVE issues.

Known Issues in Cloudera Manager 7.11.0

Known issues in Cloudera Manager 7.11.0

OPSAPS-67152: Cloudera Manager does not allow you to update some configuration parameters.

Cloudera Manager does not allow you to set to "0" for the `dfs_access_time_precision` and `dfs_name_node_accesstime_precision` configuration parameters.

You will not be able to update `dfs_access_time_precision` and `dfs_namenode_accesstime_precision` to "0". If you try to enter "0" in these configuration input fields, then the field gets cleared off and results in a validation error: This field is required.

To fix this issue, perform the workaround steps as mentioned in the [KB article](#).

If you need any guidance during this process, contact Cloudera support.

OPSAPS-68629: HDFS HTTPFS GateWay is not able to start with custom krb5.conf location set in Cloudera Manager.

On a cluster with a custom `krb5.conf` file location configured in Cloudera Manager, HDFS HTTPFS role is not able to start because it does not have the custom Kerberos configuration file setting properly propagated to the service, and therefore it fails with a Kerberos related exception: in thread "main" java.io.IOException: Unable to initialize WebApplicationContext at org.apache.hadoop.http.HttpServer2.start(HttpServer2.java:1240) at org.apache.hadoop.fs.http.server.HttpFSServerWebServer.start(HttpFSServerWebServer.java:131) at org.apache.hadoop.fs.http.server.HttpFSServerWebServer.main(HttpFSServerWebServer.java:162) Caused by: java.lang.IllegalArgumentException: Can't get Kerberos realm at org.apache.hadoop.security.HadoopKerberosName.setConfiguration(HadoopKerberosName.java:71) at org.apache.hadoop.security.UserGroupInformation.initialize(UserGroupInformation.java:329) at org.apache.hadoop.security.UserGroupInformation.setConfiguration(UserGroupInformation.java:380) at org.apache.hadoop.lib.service.hadoop.FileSystemAccessService.init(FileSystemAccessService.java:166) at org.apache.hadoop.lib.server.BaseService.init(BaseService.java:71) at org.apache.hadoop.lib.server.Server.initServices(Server.java:581) at org.apache.hadoop.lib.server.Server.init(Server.java:377) at org.apache.hadoop.fs.http.server.HttpFSServerWebApp.init(HttpFSServerWebApp.java:100) at org.apache.hadoop.lib.servlet.ServerWebApp.contextInitialized(ServerWebApp.java:158) at org.eclipse.jetty.server.handler.ContextHandler.callContextInitialized(ContextHandler.java:1073) at org.eclipse.jetty.servlet.ServletContextHandler.callContextInitialized(ServletContextHandler.java:572) at org.eclipse.jetty.server.handler.ContextHandler.contextInitialized(ContextHandler.java:1002) at org.eclipse.jetty.servlet.ServletHandler.initialize(ServletHandler.java:765) at org.eclipse.jetty.servlet.ServletContextHandler.startContext(ServletContextHandler.java:379) at org.eclipse.jetty.webapp.WebApplicationContext.startWebapp(WebApplicationContext.java:1449) at org.eclipse.jetty.webapp.WebApplicationContext.startContext(WebApplicationContext.java:1414) at org.eclipse.jetty.server.handler.ContextHandler.doStart(ContextHandler.java:916) at org.eclipse.jetty.servlet.ServletContextHandler.doStart(ServletContextHandler.java:288) at org.eclipse.jetty.webapp.WebApplicationContext.doStart(WebApplicationContext.java:524) at org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:73) at org.eclipse.jetty.util.component.ContainerLifeCycle.start(ContainerLifeCycle.java:169) at org.eclipse.jetty.util.component.ContainerLifeCycle.doStart(ContainerLifeCycle.java:117) at org.eclipse.jetty.server.handler.AbstractHandler.doStart(AbstractHandler.java:97) at org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:73) at org.eclipse.jetty.util.component.ContainerLifeCycle.start(ContainerLifeCycle.java:169) at org.eclipse.jetty.server.Server.start(Server.java:423) at org.eclipse.jetty.util.component.ContainerLifeCycle.doStart(ContainerLifeCycle.java:110) at org.eclipse.jetty.server.handler.AbstractHandler.doStart(AbstractHandler.java:97) at org.eclipse.jetty.server.Server.doStart(Server.java:387) at org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:73) at org.apache.hadoop.http.HttpServer2.start(HttpServer2.java:1218) ... 2 more Caused by: java.lang.IllegalArgumentException: KrbException: Cannot locate default realm at java.security.jgss/javax.security.auth.kerberos.KerberosPrincipal.<init>(KerberosPrincipal.java:174) at org.apache.hadoop.security.authentication.util.KerberosU

```
til.getDefaultRealm(KerberosUtil.java:108) at org.apache.hadoop.security.HadoopKerberosName.  
e.setConfiguration(HadoopKerberosName.java:69) ...
```

1. Log in to Cloudera Manager.
2. Select the HDFS service.
3. Select Configurations tab.
4. Search for HttpFS Environment Advanced Configuration Snippet (Safety Valve)
5. Add to or extend the HADOOP_OPTS environment variable with the following value: -
Djava.security.krb5.conf=<the custom krb5.conf location>
6. Click Save Changes.

Fixed Common Vulnerabilities and Exposures in Cloudera Manager 7.11.0 (Cloudera Runtime 7.2.17)

Common Vulnerabilities and Exposures (CVE) that are fixed in this release.

- CVE-2022-29580
- CVE-2021-36373
- CVE-2021-36374
- CVE-2020-9493
- CVE-2022-23305
- CVE-2018-14721
- CVE-2018-14718
- CVE-2018-14719
- CVE-2018-14720
- CVE-2018-19360
- CVE-2018-19361
- CVE-2018-19362
- CVE-2018-12022
- CVE-2018-12023
- CVE-2022-36364
- CVE-2017-15095
- CVE-2018-5968
- CVE-2022-40146
- CVE-2022-41704
- CVE-2022-42890
- CVE-2022-38398
- CVE-2022-38648
- CVE-2020-26939
- CVE-2020-13955
- CVE-2021-4125
- CVE-2022-31129
- CVE-2018-11792
- CVE-2021-28131
- CVE-2018-11785
- CVE-2022-21724
- CVE-2022-31197
- CVE-2022-41946
- CVE-2021-27905
- CVE-2021-44548
- CVE-2021-29943

- CVE-2020-13941
- CVE-2017-3163
- CVE-2017-3164
- CVE-2018-1308
- CVE-2019-12401
- CVE-2019-0193
- CVE-2015-8795
- CVE-2015-8796
- CVE-2015-8797
- CVE-2018-11802
- CVE-2020-5421
- CVE-2022-22978
- CVE-2021-22112
- CVE-2022-22976
- CVE-2022-40152
- CVE-2022-40151
- CVE-2022-41966
- CVE-2020-10683
- CVE-2014-0229
- CVE-2014-3627
- CVE-2013-4221
- CVE-2013-4271
- CVE-2017-14868
- CVE-2017-14949
- CVE-2014-1868
- CVE-2017-5637
- CVE-2021-37533
- CVE-2022-25168
- CVE-2021-33036
- CVE-2022-37865
- CVE-2022-37866
- CVE-2013-2035
- CVE-2021-33813
- CVE-2022-40149
- CVE-2022-40150
- CVE-2022-45685
- CVE-2022-45693
- CVE-2017-7657
- CVE-2017-7658
- CVE-2017-7656
- CVE-2017-9735
- CVE-2020-27216
- CVE-2019-10247
- CVE-2019-10241
- CVE-2016-5725
- CVE-2022-36033
- CVE-2018-1320
- CVE-2019-0205
- CVE-2019-0210
- CVE-2018-11798

- CVE-2016-2402
- CVE-2022-26336
- CVE-2022-38752
- CVE-2022-41854
- CVE-2017-8028
- CVE-2018-1258
- CVE-2020-11988

Cumulative hotfixes

You can review the list of cumulative hotfixes that were shipped for Cloudera Manager 7.11.0 release.

Cloudera Manager 7.11.0-h8

Know more about the Cloudera Manager 7.11.0-h8 hotfix version which is a corresponding Cloudera Manager hotfix version for Cloudera Runtime 7.2.17.800 service pack release.

This cumulative hotfix was released on October 31, 2024.



Note: Contact Cloudera Support for questions related to any specific hotfixes.

Following are the list of fixed issues that were shipped for Cloudera Manager 7.11.0-h8 (version: 7.11.0-h8-57918262):

OPSAPS-71005: RemoteCmdWork is using a singlethreaded executor

By default, Replication Manager runs the remote commands for a replication policy through a single-thread executor. You can search and enable the `enable_multithreaded_remote_cmd_executor` property in the target Cloudera Manager Administration Settings page to run future replication policies through the multi-threaded executor. This action improves the processing performance of the replication workloads.

Additionally, you can also change the `multithreaded_remote_cmd_executor_max_threads` and `multithreaded_remote_cmd_executor_keepalive_time` properties to fine-tune the replication policy performance.

OPSAPS-69996: HBase snapshot creation in Cloudera Manager works as expected

During the HBase snapshot creation process, the snapshot create command sometimes tries to create the same snapshot twice because of an unhandled `OptimisticLockException` during the database write operation. This resulted in intermittent HBase snapshot creation failures. The issue is fixed now.

OPSAPS-66459: Enable concurrent Hive external table replication policies with the same cloud root

When the `HIVE_ALLOW_CONCURRENT_REPLICATION_WITH_SAME_CLOUD_ROOT_PATH` feature flag is enabled, Replication Manager can run two or more Hive external table replication policies with the same cloud root path concurrently.

For example, if two Hive external table replication policies have `s3a://bucket/hive/data` as the cloud root path and the feature flag is enabled, Replication manager can run these policies concurrently.

By default, this feature flag is disabled. To enable the feature flag, contact your Cloudera account team.

OPSAPS-69782: HBase replication policies work as expected when the peer Cloudera Manager's API version is higher than the local cluster's API version

HBase replication using HBase replication policies between two Data Hubs/COD clusters would fail if all the following conditions are true:

- The destination Data Hub/COD cluster's Cloudera Manager version is 7.9.0-h7 through 7.9.0-h9 or 7.11.0-h2 through 7.11.0-h4, or 7.12.0.0.
- The source Data Hub/COD cluster's Cloudera Manager major version is higher than the destination cluster's Cloudera Manager major version.
- The Initial Snapshot option is chosen during the HBase replication policy creation process and/or the source cluster is already participating in another HBase replication setup as a source or destination with a third cluster.

This issue is resolved.

The repositories for Cloudera Manager 7.11.0-h8 are listed in the following table:

Table 1: Cloudera Manager 7.11.0-h8

Repository Type	Repository Location
RHEL 8 Compatible	Repository: <pre>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h8-57918262/redhat8/yum</pre> Repository File: <pre>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h8-57918262/redhat8/yum/cloudera-manager.repo</pre>
RHEL 7 Compatible	Repository: <pre>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h8-57918262/redhat7/yum</pre> Repository File: <pre>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h8-57918262/redhat7/yum/cloudera-manager.repo</pre>

Cloudera Manager 7.11.0-h7

Know more about the Cloudera Manager 7.11.0-h7 hotfix version which is a corresponding Cloudera Manager hotfix version for Cloudera Runtime 7.2.17.700 service pack release.

This cumulative hotfix was released on September 17, 2024.



Note: Contact Cloudera Support for questions related to any specific hotfixes.

New features and changed behavior for Cloudera Manager 7.11.0-h7 (version: 7.11.0-h7-55447511):
OPSAPS-69495: Implemented support for Ranger Plugin Secure Auditing in Solr using Zookeeper.

Support has been added for Ranger plugin secure auditing in Solr by using ZooKeeper.

OPSAPS-70320: Added Zookeeper SSL connection support for Ranger & Ranger Raz

Support has been added for ZooKeeper SSL connection for Ranger and Ranger RAZ.

Following are the list of fixed issues that were shipped for Cloudera Manager 7.11.0-h7 (version: 7.11.0-h7-55447511):

OPSAPS-70859: Ranger metrics APIs were not working on FedRAMP cluster

On FedRAMP HA cloud cluster, Ranger metrics APIs were not working. This issue is fixed now by introducing new Ranger configurations.

This issue is fixed now by introducing new Ranger configurations.

The repositories for Cloudera Manager 7.11.0-h7 are listed in the following table:

Table 2: Cloudera Manager 7.11.0-h7

Repository Type	Repository Location
RHEL 8 Compatible	Repository: <code>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h7-55447511/redhat8/yum</code> Repository File: <code>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h7-55447511/redhat8/yum/cloudera-manager.repo</code>
RHEL 7 Compatible	Repository: <code>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h7-55447511/redhat7/yum</code> Repository File: <code>https://username:password@archive.cloudera.com/p/cm-public/7.11.0-h7-55447511/redhat7/yum/cloudera-manager.repo</code>