

Release Notes

Cloudera JDBC Connector for Apache Hive 2.6.17

Released 2021-12-24

These release notes provide details of enhancements, features, known issues, and workflow changes in Cloudera JDBC Connector for Apache Hive 2.6.17, as well as the version history.

For information about upcoming support deprecations or removals, see the Workflow Changes section. Deprecated features will not receive any updates, but will continue to be usable in their current state until support is removed in a future release.

Enhancements & New Features

[HIVEJ-704] Updated log4j third-party libraries

The JDBC 4.2 version of the connector has been updated to version 2.17.0 of the log4j third-party libraries.

The JDBC 4.1 version of the connector has been updated to version 2.12.2 of the log4j third-party libraries. To address security vulnerabilities, do one of the following:

- In PatternLayout in the logging configuration, replace Context Lookups like `{ctx:loginId}` or `$$ {ctx:loginId}` with Thread Context Map patterns (`%X`, `%mdc`, or `%MDC`).
- Otherwise, in the configuration, remove references to Context Lookups like `{ctx:loginId}` or `$$ {ctx:loginId}` where they originate from sources external to the application such as HTTP headers or user input.

Third-party library upgrades

The connector has been upgraded with the following third-party libraries:

- Apache Commons Codec 1.15 (previously 1.9)
- Apache HttpClient 4.5.13 (previously 4.5.3)
- Apache HttpCore 4.4.14 (previously 4.4.6)
- Jackson 2.12.3 (previously 2.10.1)

Resolved Issues

The following issues have been resolved in Cloudera JDBC Connector for Apache Hive 2.6.17.

- [HIVEJ-672] The HiveJDBCDataEngine does not check getFunctions and returns an empty result set.
- [HIVEJ-684] When a ZooKeeper connection URL does not contain a namespace for each host, the connector does not close the connection properly.

Workflow Changes

The following changes may disrupt established workflows for the driver.

In addition to changes that are already implemented in the current version of the driver, this section describes potentially disruptive changes that will be implemented in a future version of the driver, so that you can plan accordingly.

Version 2.6.15

Removed support for CDH versions 5.11 to 5.16

Beginning with this release, the driver no longer supports CDH versions 5.11 to 5.16. For a list of supported CDH versions, see the *Installation and Configuration Guide*.

Removed support for JDBC 4 (Java 6)

Beginning with this release, the driver no longer supports JDBC 4 (Java 6). For a list of supported JDBC versions, see the *Installation and Configuration Guide*.

Version 2.6.1

Removed support for JDBC 3 (Java 5)

Beginning with this release, the driver no longer supports JDBC 3 (Java 5). For a list of supported JDBC versions, see the *Installation and Configuration Guide*.

Version History

Version 2.6.15

Released 2021-03-31

Enhancements & New Features

[00263787][HIVEJ-641] SSO authentication

You can now authenticate using single sign-on (SSO) via SAML 2.0 on supported servers. For more information, see the *Installation and Configuration Guide*.

[00289968][HIVEJ-662] Updated SSL support

The driver now supports BCFKS TrustStores files. To specify the TrustStore type, set the `SSLTrustStoreType` property to the preferred type. For more information, see the *Installation and Configuration Guide*.

[HIVEJ-665] Simulate transactions

You can now specify whether the driver simulates or ignores transactions. To do this, set the `IgnoreTransactions` property. For more details, see the *Installation and Configuration Guide*.

[00304256][HIVEJ-670] Updated documentation

The `FastConnection` and `LoginTimeout` properties are now documented in the *Installation and Configuration Guide*. For more details, see the *Installation and Configuration Guide*.

Version 2.6.13

Released 2020-10-19

Enhancements & New Features

[HIVEJ-566] Updated Hive, CDH, and CDP support

The driver now supports Apache Hive versions 1.0.0 through 3.1, CDH versions 5.10 through 5.16 and 6.0 through 6.3, and CDP versions 7.0 and 7.1.

[HIVEJ-604] Support for Java 11

The driver now supports Java 11.

Resolved Issues

The following issues have been resolved in Cloudera JDBC Connector for Apache Hive 2.6.13.

- [00184182][HIVEJ-602] The driver logs incorrect socket timeout values.
- [00255458][HIVEJ-637] When the connection is not valid, the driver does not notify the `ConnectionEventListener` object as expected.

Version 2.6.12

Released 2020-09-04

Enhancements & New Features

[HIVEJ-619] Binary column length

You can now specify the maximum size of binary columns. To do this, set the `BinaryColumnLength` property to the specified column length. For more details, see the *Installation and Configuration Guide*.

[HIVEJ-611] Updated third-party libraries

The JDBC 4.2 driver has been updated to use the following libraries:

- log4j 2.13.3
- slf4j 1.7.30

The JDBC 4.1 driver continues to use the previous versions of these libraries.

Resolved Issues

The following issue has been resolved in Cloudera JDBC Connector for Apache Hive 2.6.12.

- [00221973][HIVEJ-606] The driver does not honor the values set via the `Statement.setFetchSize` JDBC API call.

Version 2.6.11

Released 2020-07-24

Enhancements & New Features

Support for CDP 7.0

The driver now supports CDP 7.0.

Resolved Issues

The following issue has been resolved in Cloudera JDBC Connector for Apache Hive 2.6.11.

- [00222028][HIVEJ-610] Queries with a UNION clause are replaced with a UNION ALL clause.

Version 2.6.10

Released 2020-03-06

Enhancements & New Features

[00176863][HIVEJ-584] Updated Thrift library

The JDBC 4.2 version of the driver now uses version 0.13.0 of the Thrift library. Previously, this version of the driver used Thrift version 0.12.0.

The JDBC 4.0 and 4.1 versions of the driver continue to use Thrift version 0.12.0.

[HIVEJ-575] Updated Jackson library

The driver now uses version 2.10.1 of the Jackson library. Previously, the driver used Jackson version 2.9.9.

Resolved Issues

The following issues have been resolved in Cloudera JDBC Connector for Apache Hive 2.6.10.

- [HIVEJ-577] The JDBC 4.1 version of the driver fails to connect to servers that require encryption using TLS 1.2.

- [HIVEJ-578] When you invoke the JDBC 4.2 driver with the Datasource class, an exception occurs.
- [00176503][HIVEJ-583] When you use the driver with the Denodo application, it returns the following error: "Could not initialize Class".
- [HIVEJ-596] In some cases, Hive queries fail with the following error: "com.cloudera.hiveserver2.exceptions.ExceptionConverter.toSQLException: [JDBC Driver]Index: 4, Size: 4"
- [HIVEJ-597] SQL statements using the EXISTS predicate return an error.
- [HIVEJ-599] The driver returns incorrect results for decimal columns.

Version 2.6.9

Released 2019-10-04

Enhancements & New Features

[00144651][HIVEJ-561][00146044][HIVEJ-563][HIVEJ-554][HIVEJ-539] Updated third-party libraries

The driver now uses the following third-party libraries:

- jackson 2.9.9
- jackson-databind 2.9.9.3
- Thrift 0.12.0
- ZooKeeper 3.4.14

[HIVEJ-549] Support for JDBC 4.2

The driver now supports JDBC 4.2. For more details see the *Installation and Configuration Guide*.

[HIVEJ-551] New JDBC class names

The driver now supports the following class names for Driver and DataSource that are independent of the JDBC version used:

- `com.cloudera.hive.jdbc.HS1Driver`
- `com.cloudera.hive.jdbc.HS2Driver`
- `com.cloudera.hive.jdbc.HS1DataSource`

- `com.cloudera.hive.jdbc.HS2DataSource`

The previous JDBC-version-specific class names for 4.0 and 4.1 are still supported.

[00141040][HIVEJ-545] Renaming join columns

By default, the driver does not allow join columns to be renamed. To enable the renaming of join columns, set the `RenameJoinColumn` property to `true`.

Resolved Issues

The following issues have been resolved in Cloudera JDBC Connector for Apache Hive 2.6.9.

- [00146521][HIVEJ-569] The driver resolves the host name to an IP address for SSL verification, causing the host name verification step to fail.
- [HIVEJ-542] The driver incorrectly treats `SSLTrustStore` and `SSLTrustStorePWD` as server-side properties.

Version 2.6.5

Released 2019-02-21

Enhancements & New Features

[HIVEJ-548] Updated CDH support

The driver now supports CDH versions 5.0 through 5.16 and 6.0 through 6.2.

Resolved Issues

The following issue was resolved in Cloudera JDBC Connector for Apache Hive 2.6.5.

- [00139103][HIVEJ-534] If a SQL query ends in a semicolon, the driver reports an error.

This issue has been resolved. The driver now removes trailing semicolons from queries before sending them to the server.

Version 2.6.4

Released 2019-02-15

Enhancements & New Features

[HIVEJ-481] Updated Hive Service support

The driver now uses Hive Service 3.1.1 for HiverServer2 connections.

[HIVEJ-501] Updated Hive support

The driver now supports Apache Hive versions 0.11 through 3.1.

[HIVEJ-503][HIVEJ-509][HIVEJ-511][HIVEJ-512] Updated third-party libraries

The driver now uses the following third-party libraries:

- Thrift 0.11.0
- Log4j 1.2.17
- slf4j-api 1.7.25
- slf4j-log4j12 1.7.25
- ZooKeeper 3.4.13

Resolved Issues

The following issue was resolved in Cloudera JDBC Connector for Apache Hive 2.6.2.

- [00132424][HIVEJ-498] Queries that use REGEX column specification fail.

This issue has been resolved. The driver no longer attempts to parse REGEX column specification.

Version 2.6.2

Released 2018-05-22

Enhancements & New Features

[HIVEJ-505] CDH 5.15 now supported

The driver now supports CDH versions 5.0 through 5.15.

Resolved Issues

The following issue was resolved in Cloudera JDBC Connector for Apache Hive 2.6.2.

- [00119341] The driver does not behave according to the `SocketTimeout` setting, and stops responding instead of returning an error when the server takes too long to respond to a request.

This issue has been resolved. The driver now returns an error if the amount of time taken by the server to respond to a request exceeds the number of seconds specified by the `SocketTimeout` setting.

Version 2.6.1

Released 2018-04-27

Enhancements & New Features

Improved installation process

Third-party libraries are now bundled with the driver as a shaded jar file.

Updated hive-service

The driver has been upgraded to use `hive-service-2.0.1` with JDBC 4.1 and `hive-service-1.1.1` with JDBC 4.

Updated third-party libraries

The driver has been upgraded to use `http-client 4.5.3`, `http-core 4.4.6`, `commons-codec 1.9`, `commons-logging 1.2`, and `Zookeeper 3.4.11`.

Resolved Issues

The following issues were resolved in Cloudera JDBC Connector for Apache Hive 2.6.1.

- [00115543] A string literal after a back-tick (```) is treated as a comment.
- [00115424] When the driver attempts to connect to the server using Beeline, an error occurs on the server and an exception is logged by the driver.

This issue has been resolved. Now, when connecting to the server using Beeline, connection properties such as "driver" and "url" are no longer treated as configuration properties for the server, and the driver does not send SET queries to the server with these properties.

- [00114906] The driver removes query comments and hints when the `UseNativeQuery` property is set to 1.

Contact Us

If you are having difficulties using the driver, our [Community Forum](#) may have your solution. In addition to providing user to user support, our forums are a great place to share your questions, comments, and feature requests with us.

If you are a Subscription customer you may also use the [Cloudera Support Portal](#) to search the Knowledge Base or file a Case.

Important: To help us assist you, prior to contacting Cloudera Support please prepare a detailed summary of the client and server environment including operating system version, patch level, and configuration.