Release Notes

Cloudera JDBC Connector for Apache Hive 2.6.21

Released 2022-08-05

These release notes provide details of enhancements, features, known issues, and workflow changes in Cloudera JDBC Connector for Apache Hive 2.6.21, as well as the version history.

Enhancements & New Features

[00371927][HIVEJ-733] Updated SAML SSO authentication behavior

When using SAML SSO authentication, the connector now automatically closes the browser tab opened by the connector. By default, the tab closes five seconds after successfully authenticating. Note that the tab does not automatically close after login credentials are entered during the first authentication attempt. Only tabs opened during subsequent authentication attempts, where login credentials are not required, are closed automatically. If a browser window is not already opened, SAML SSO authentication attempts always prompt the user for credentials.

Resolved Issues

The following issue has been resolved in Cloudera JDBC Connector for Apache Hive 2.6.21.

- [00391275][HIVEJ-753] After closing HTTP connections, the connector does not clean up native threads.

Workflow Changes

The following changes may disrupt established workflows for the connector.

Version 2.6.19

[HIVEJ-722] Removed slf4j-log4j12 dependency

Beginning with this release, the connector no longer includes the slf4j-log4j12 library in the `JAR` file.

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 2.6.20

Released 2022-06-30

Enhancements & New Features

[HIVEJ-750] Updated query behavior

You can now configure the connector to return a regular result set, rather than a row count. To do this, set the `NonRowcountQueryPrefixes` property to a comma-separated list of queries. For more information, see the *Installation and Configuration Guide*.

[HIVEJ-743] Updated Jackson library

The connector now uses the following Jackson versions:

- jackson-annotations 2.13.2 (previously 2.13.1)

- jackson-core 2.13.2 (previously 2.13.1)

- jackson-databind 2.13.2.2 (previously 2.13.1)

Resolved Issues

The following issue has been resolved in Cloudera JDBC Connector for Apache Hive 2.6.20.

- [00388538][HIVEJ-751] When the server closes the TCP connection due to an idle timeout, the connector attempts to reuse a TCP connection for an HTTP request afterwards, resulting in a "Communication link failure" error.

Version 2.6.18

Released 2022-03-18

Enhancements & New Features

[00374597][HIVEJ-723] Updated log4j third-party libraries

The JDBC 4.2 version of the connector has been updated to version 2.17.1 of the log4j third-party libraries.

The JDBC 4.1 version of the connector has been updated to version 2.12.4 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.

[HIVEJ-725] Updated Jackson library

The connector now uses version 2.13.1 of the Jackson library. Previously, the connector used Jackson version 2.12.3.

Version 2.6.18

Released 2022-02-08

Resolved Issues

The following issue has been resolved in Cloudera JDBC Connector for Apache Hive 2.6.18.

- [00372375] [HIVEJ-728] When close() is not called on the connection object, the connector prevents the JVM from exiting.

Version 2.6.17

Released 2021-12-24

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.

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.

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.