Release Notes

Cloudera JDBC Connector for Apache Hive 2.6.23

Released 2023-09-13

These release notes provide details of enhancements, features, known issues, and workflow changes in Cloudera JDBC Connector for Apache Hive 2.6.23, as well as the version history.

Enhancements & New Features

[HIVEJ-748] Support for JWT authentication

You can now authenticate your connections to clusters with JWT authentication. To do this, select JWT Authentication from the `Mechanism` drop-down list (set the `AuthMech` property to 14). For more information, see the *Installation and Configuration Guide*.

[HIVEJ-762] Native GSS-API support

The connector now supports the native GSS-API feature in the JDK without the need to set the `AllowTgtSessionKey` property in the Windows registry. For more information, see the *Installation and Configuration Guide*.

[HIVEJ-765] Updated third-party library

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

- Apache HttpClient 4.5.14 (previously 4.5.13)

- Apache HttpCore 4.4.16 (previously 4.4.14)

- Google Guava 31.1 (previously 30.1)

- log4j-api 2.20.0 (previously 2.17.1)

- log4j-core 2.20.0 (previously 2.17.1)

- log4j-slf4j-impl 2.20.0 (previously 2.17.1)

- slf4j 1.7.36 (previously 1.7.30)

- thrift 0.17.0 (previously 0.13.0)

[HIVEJ-773][02840395] Updated Jackson libraries

The connector now uses the following libraries for the Jackson JSON parser:

- jackson-annotations-2.15.2 (previously 2.13.4)

- jackson-core-2.15.2 (previously 2.13.4)

- jackson-databind-2.15.2 (previously 2.13.4.2)

Workflow Changes

The following changes may disrupt established workflows for the connector.

Version 2.6.23

[HIVEJ-761] Removed support for Java 7

Beginning with this release, the connector no supports Java 7. For a list of supported JDBC versions, see the *Installation and Configuration Guide*.

[HIVEJ-649] Removed support for Hive Server 1.0.0

Beginning with this release, the connector no supports Hive Server 1.0.0. For a list of supported Hive Server versions, see the *Installation and Configuration Guide*.

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 2.6.21

Released 2022-08-05

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.

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 2.6.19

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.

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.