

Release Notes

Cloudera JDBC Driver for Impala 2.6.17

Released 2020-02-12

These release notes provide details of enhancements, features, workflow changes, and known issues in Cloudera JDBC Driver for Impala 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

[IMPJ-547] Updated CDH support

The driver now supports CDH versions 5.11 through 5.16 and 6.0 through 6.3.

[IMPJ-493] 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 Driver for Impala 2.6.17.

- [00147825][IMPJ-516] The driver does not generate the correct syntax for character parameters in prepared statements if the length of the parameter value is greater than 510.
- [00147114][IMPJ-512] `getParameterMetaData()` returns VARCHAR for all parameters.
- [00147464][IMPJ-514] When you use the `com.cloudera.impala.jdbc.DataSource` class to connect with the JDBC 4.1 or 4.2 version of the driver, the driver returns a class cast exception.
- [IMPJ-520] The JDBC 4.1 version of the driver fails to connect to servers that require encryption using TLS 1.2.

This has been resolved. However, be aware that this issue still persists for the JDBC 4.0 version of the driver. For more information, see the "Known Issues" section.

Known Issues

The following are known issues that you may encounter due to limitations in the data source, the driver, or an application.

- The JDBC 4.0 version of the driver fails to connect to servers that require encryption using TLS 1.1 or later.

When you attempt to connect to the server, the connection fails and the driver returns an SSL handshake exception. This issue occurs only when you run the driver using Java Runtime Environment (JRE) 6.0.

As a workaround, run the driver using JRE 7.0 or 8.0.

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.

Upcoming

Removing support for JDBC 4.0 (Java 6)

As early as April 2020, the driver will no longer support JDBC 4.0 (Java 6). For a list of supported JDBC versions, see the *Installation and Configuration Guide*.

Version 2.6.17

[IMPJ-553] Removed support for earlier versions of Impala and CDH

Beginning with this release, the driver no longer supports Impala 2.7 and CDH 5.0 to 5.10. For a list of supported versions, see the *Installation and Configuration Guide*.

Version 2.6.16

[IMPJ-501] Removed support for Impala 1.0.1 to 2.6

Beginning with this release, the driver no longer supports Impala 1.0.1 to 2.6. For a list of supported Impala versions, see the *Installation and Configuration Guide*.

Version 2.6.15

New default port

Beginning with this release, if the port is not specified in the connection URL, the driver uses a default port depending on the specified transport mode:

- If the transport mode is specified as HTTP, the driver uses port 28000 as the default.
- If the transport mode is specified as SASL or binary, or is not specified, the driver uses port 21050 as the default.

Previously, the driver always used port 21050 as the default port.

Version 2.6.1

Removed support for JDBC 3 (Java 5)

Beginning with this release, the driver no longer supports JDBC 3 (Java 5). Only JDBC 4 (Java 6) and JDBC 4.1 (Java 7) are supported.

Version History

Version 2.6.16

Released 2019-09-06

Enhancements & New Features

[00143621] [IMPJ-484] Support for DATE data type

The driver now supports the DATE data type for Impala version 3.3.0 or later. For more information, see "Data Types" in the *Installation and Configuration Guide*.

[IMPJ-493] Zookeeper updated

The driver now uses Zookeeper version 3.4.14.

[MPJ-500] Jackson-databind updated

The driver now uses Jackson-databind version 2.9.9.3.

Version 2.6.15

Released 2019-07-24

Enhancements & New Features

[IMPJ-489] Default port

If a port is not specified in the connection URL, the driver now uses a default port depending on the specified transport mode:

- If the transport mode is specified as HTTP, the driver uses port 28000 as the default.
- If the transport mode is specified as SASL or binary, or is not specified, the driver uses port 21050 as the default.

[IMPJ-487] HTTP header host name

When the driver uses an HTTP header, the header now uses the host name instead of the resolved IP address.

Resolved Issues

The following issue has been resolved in Cloudera JDBC Driver for Impala 2.6.15.

- [IMPJ-488] If `AuthMech` is set to 0 and `UID` and `PWD` are specified in the connection URL, the username and password are not sent.

This has been resolved. Now, if `UID` or `PWD` are specified in the connection URL, the driver always sends them to the server.

Version 2.6.14

Released 2019-06-25

Enhancements & New Features

[IMPJ-465] Updated Impala and CDH support

The driver now supports Impala versions 1.0.1 through 3.2, and CDH versions 5.0 through 5.16 and 6.0 through 6.2.

[IMPJ-471] Support for JDBC 4.2

The driver now supports JDBC 4.2.

[00141942][IMPJ-463][IMPJ-479] Support for HTTP transport

The driver now supports the use of the HTTP transport protocol. To use this transport protocol, set the new `TransportMode` configuration option to `http`, and then set the new `httpPath` configuration option to the partial URL corresponding to the Impala server. For more information, see the *Installation and Configuration Guide*.

Note: The `TransportMode` option replaces and supersedes the deprecated `UseSasl` option.

[IMPJ-472] 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.impala.jdbc.Driver`
- `com.cloudera.impala.jdbc.DataSource`

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

[IMPJ-477] Updated Jackson library

The driver has been updated to use Jackson 2.9.9.

Version 2.6.13

Released 2019-05-24

Resolved Issues

The following issue has been resolved in Cloudera JDBC Driver for Impala 2.6.13.

- [00142091][IMPJ-461] The driver casts empty strings to `CHAR(0)`, causing issues on the server.

This issue is resolved. The driver now casts empty strings to `CHAR(1)`.

Version 2.6.12

Released 2019-05-17

Resolved Issues

The following issue has been resolved in Cloudera JDBC Driver for Impala 2.6.12.

- [00141482][IMPJ-468] The driver executes UPSERT queries incorrectly, causing errors to be shown.

Version 2.6.11

Released 2019-04-30

Enhancements & New Features

[00140475][IMPJ-453] Private IP address for Altus Service Discovery

The driver can now be configured to always use a private IP address with Altus Service Discovery. To do this, set the `AltusUsePrivateIP` configuration property to `true`. For more information, see the *Installation and Configuration Guide*.

[00141482][IMPJ-458] Improved performance of prepared statements with large numbers of parameters.

Preparing statements no longer takes exponentially more time for each parameter. Additionally, `DatabaseMetaData.supportsBatchUpdates()` now returns `true`.

[00138441][IMPJ-443] Always pass UID parameter to server

If the UID parameter is specified in the connection URL, the driver now passes it to the server even when No Authentication is specified (`AuthMech=0`).

[00140157][IMPJ-450] Thrift Support Update

The driver now uses version 0.12.0 of the Thrift library.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.6.11.

- [00141235][IMPJ-454] The driver incorrectly treats `SSLTrustStore` and `SSLTrustStorePWD` as server-side properties.
- [IMPJ-444] 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 2.6.9

Released 2019-02-08

Enhancements & New Features

[IMPJ-448] Updated Impala and CDH support

The driver now supports Impala versions 1.0.1 through 3.1, and CDH versions 5.0 through 5.16 and 6.0 through 6.1.

Resolved Issues

The following issue has been resolved in Cloudera JDBC Driver for Impala 2.6.9.

- [00137281][IMPJ-437] After a query fails on the server side, subsequent queries on the driver side also fail.

Version 2.6.8

Released 2019-01-25

Enhancements & New Features

[IMPJ-422] Support for Impala 3.0 and CDH 6.0

The driver now supports Impala versions 1.0.1 through 3.0, and CDH versions 5.0 through 6.0.

[00134274][IMPJ-419] UPSERT queries supported for Apache Kudu tables

You can now execute UPSERT queries when using prepared statements to query Kudu tables through Impala.

[IMPJ-415][IMPJ-420] Updated third-party libraries

The driver has been updated to use the following libraries:

- Hive Service RPC 3.1.1
- Apache ZooKeeper 3.4.13

[IMPJ-433] Updated Altus SDK for Java

The driver now uses a newer version of the Altus SDK for Java, which provides protection against security vulnerabilities that have been found in the Jackson libraries.

[IMPJ-427] Improved error messaging for Altus Service Discovery

The driver now provides more detailed messages for errors related to the Altus Service Discovery feature.

Resolved Issues

The following issue was resolved in Cloudera JDBC Driver for Impala 2.6.8

- [00133349][IMPJ-402] When executing a statement that only contains a comment, the driver returns an error.

Version 2.6.6

Released 2018-11-08

Enhancements & New Features

[IMPJ-361] Improved scalar function support

The driver now defaults to the native implementations of scalar functions where they are supported by the Impala server.

[IMPJ-403][IMPJ-413][IMPJ-416] Updated third-party libraries

The driver has been updated to use:

- Thrift 0.11.0
- Log4j 1.2.17
- slf4j-api and slf4j-log4j12 1.7.25

[IMPJ-410] Dynamic service discovery through Cloudera Altus

The driver can now discover and connect to Impala services through Cloudera Altus. For detailed information about configuring this type of connection, see the *Installation and Configuration Guide*.

Version 2.6.4

Released 2018-06-29

Enhancements & New Features

[IMPJ-397] Support for Impala 2.12 and CDH 5.15

The driver now supports Impala versions 1.0.1 through 2.12, and CDH versions 5.0 through 5.15.

Resolved Issues

The following issue was resolved in Cloudera JDBC Driver for Impala 2.6.4.

- [00116966][IMPJ-386] Documentation for the `SocketTimeout` configuration option is incorrect.

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.