

Release Notes

Cloudera ODBC Data Connector for Apache Impala 2.7.0

Released 2023-09-15

These release notes provide details of enhancements, features, known issues, and workflow changes in Cloudera ODBC Connector for Impala 2.7.0, as well as the version history.

Enhancements & New Features

[IMP-940][00420456] Support for JWT authentication

You can now authenticate your connection with a JSON Web Token (JWT). To do this, select JWT authentication from the Mechanism drop-down list (set the `Mechanism` property to `JWT`). For more information, see the *Installation and Configuration Guide*.

[IMP-941] Updated Windows Server support

The connector now supports Windows Server 2022. For a list of supported Windows versions, see the *Installation and Configuration Guide*.

[IMP-951] Updated third-party libraries

The connector now uses the following third-party libraries:

- Apache Thrift 0.17.0 (previously 0.9.0)
- Boost 1.81.0 (previously 1.64.0)
- Cyrus SASL 2.1.28 (previously 2.1.26)
- Expat 2.5.0 (previously 2.4.6)
- ICU 71.1.x (previously 58.2.x)
- libcurl 8.1.2 (newly added)
- MIT Kerberos 4.1 (previously 4.0.1)
- OpenSSL 3.0.9 (previously 1.1.1s)

- Simba Engine SDK 10.2 (previously 10.1)
- Zlib 1.2.13 (newly added)

[IMP-958] Updated macOS support

On macOS, the connector is now a Universal driver that natively supports Apple Silicon. For security best practices, it is suggested to keep both the connector and OS updated.

[IMP-960] [03449597] Updated Windows platform support

The connector now supports Windows 11. For a list of supported Windows versions, see the *Installation and Configuration Guide*.

Resolved Issues

The following issue has been resolved in Cloudera ODBC Connector for Impala 2.7.0.

- [IMP-946][02795738] The connector does not generate the last COALESCE parameter from the ELSE expression in the CASE statement.

Known Issues

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

[IMP-843][00294390] Limited support for query translation

The connector does not support query translation if the query contains the "LIMIT x OFFSET y" syntax.

Limited support for BINARY, DATE, and TIME data types

- BINARY is not a supported data type in Impala.
- DATE is supported only when you connect to Impala version 3.3 or later.
- As a result of the limitations above, some values of TIME data types are also not supported.

Workflow Changes

The following changes may disrupt established workflows for the connector.

Version 2.7.0

[IMP-949] Updated SAML SSO cookie cache option

When using SAML SSO cookie cache with SAML SSO authentication, the username and password are now optional for the Windows platform.

[IMP-958] Removed support for macOS universal bitness

Beginning with this release, the connector no longer supports universal bitness for macOS. Support for macOS versions 10.14 and 10.15 have been removed. For a list of supported macOS versions, see the *Installation and Configuration Guide*.

Version 2.6.18

[IMP-932][00405950] Updated HTTPAuthCookies default value

The default value for HTTPAuthCookies is now `impala.auth,JSESSIONID,KNOXSESSIONID,impala.session.id`. Previously, the default value was `impala.auth,JSESSIONID,KNOXSESSIONID`. For more information, see the *Installation and Configuration Guide*.

Version 2.6.14

[IMP-717][IMP-719] Removed support for Visual Studio 2013

Beginning with this release, the connector no longer supports Visual Studio 2013. For a list of supported Visual Studio versions, see the *Installation and Configuration Guide*.

[IMP-853][IMP-860][IMP-879][00305355][00352154] Updated HTTPAuthCookies default value

The default value for HTTPAuthCookies is now `impala.auth,JSESSIONID,KNOXSESSIONID`. Previously, there was no default value. For more information, see the *Installation and Configuration Guide*.

Version 2.6.12

[IMP-829] Removed support for earlier versions of CDH

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

[IMP-823] Removed support for earlier versions of AIX

Beginning with this release, the driver no longer supports AIX versions 5.2 through 6.1. For a list of supported AIX versions, see the *Installation and Configuration Guide*.

[IMP-713][IMP-715] Removed support for earlier versions of Windows

Beginning with this release, the driver no longer supports the following versions of Windows:

- Windows 7
- Windows Server 2008
- Windows Server 2008r2

For a list of supported Windows versions, see the *Installation and Configuration Guide*.

[IMP-728][IMP-730] Removed support earlier versions of macOS

Beginning with this release, the driver no longer supports the following versions of macOS:

- macOS 10.12 "Sierra"
- macOS 10.11 "El Capitan"
- macOS 10.10 "Yosemite"
- macOS 10.9 "Mavericks"

For a list of supported macOS versions, see the *Installation and Configuration Guide*.

[IMP-732][IMP-744][IMP-816][IMP-818] [IMP-833] Removed support for earlier versions of Linux distributions

Beginning with this release, the driver no longer supports the following versions of Linux distributions:

- CentOS 6
- RHEL 6
- Ubuntu 14.04
- SLES 11
- Debian 6 and 7

For a list of supported Linux versions, see the *Installation and Configuration Guide*.

Version 2.6.10

[IMP-778] Removed support for earlier versions of Impala and CDH

Beginning with this release, the driver no longer supports Impala 2.7 and CDH 5.9 to 5.10. For a list of supported versions, see the *Installation and Configuration Guide*.

[IMP-713][IMP-717] Deprecated support for earlier versions of Windows

Beginning with this release, support for the following versions of Windows has been deprecated:

- Windows 7
- Windows Server 2008
- Windows Server 2008r2

In addition, beginning with this release, support for Visual Studio 2013 has been deprecated.

Support will be removed in a future release. For a list of supported Windows and Visual Studio versions, see the *Installation and Configuration Guide*.

[IMP-728] Deprecated support for earlier versions of macOS

Beginning with this release, support for the following versions of macOS has been deprecated:

- macOS 10.12 "Sierra"
- macOS 10.11 "El Capitan"
- macOS 10.10 "Yosemite"
- macOS 10.9 "Mavericks"

Support will be removed in a future release. For a list of supported macOS versions, see the *Installation and Configuration Guide*.

[IMP-732] Deprecated support for CentOS 6 and RHEL 6

Beginning with this release, support for CentOS 6 or Red Hat Enterprise Linux (RHEL) 6 has been deprecated.

Support will be removed in a future release. For a list of supported Linux versions, see the *Installation and Configuration Guide*.

Version 2.6.8

[IMP-680] Removed support for earlier versions of Impala and CDH

Beginning with this release, the driver no longer supports Impala 1.0.1 to 2.6 and CDH 5.0 to 5.8. For a list of supported versions, see the *Installation and Configuration Guide*.

Version 2.6.0

Minimum TLS Version

Beginning with this release, the driver requires a minimum version of TLS for encrypting the data store connection. By default, the driver requires TLS version 1.2. This requirement may cause existing DSNs and connection strings to stop working, if they are used to connect to data stores that use a TLS version earlier than 1.2.

To resolve this, in your DSN or connection string, set the Minimum TLS option (the `Min_TLS` property) to the appropriate version of TLS for your server. For more information, see the *Installation and Configuration Guide*.

Version History

Version 2.6.18

Released 2023-03-31

Resolved Issues

The following issue has been resolved in Cloudera ODBC Connector for Impala 2.6.18.

- [IMP- 935][00415011] For some unsupported queries, SQLPrepare() returns SQL_SUCCESS, but SQLExecute() returns SQL_ERROR.

Version 2.6.17

Released 2022-11-11

Enhancements & New Features

[IMP-927] Updated SSOLgnoreDriverNoPrompt default value

To create a new connection, when SQL_DRIVER_NOPROMPT parameter is passed, set the default value of SSOLgnoreDriverNoPrompt to true to pass the SAML SSO authentication. Previously, the default value for SSOLgnoreDriverNoPrompt was false. For more information, see the Installation and Configuration Guide.

[IMP-921][00395874] SAML SSO cookie cache support

The connector now provides an option to avoid invoking multiple browser prompts when you connect using SAML SSO authentication to create multiple connections within the same application using the same DSN or connection string. To do this, select the Enable Auth Cookie Caching checkbox (set the EnableSamlCookieCaching connection property to 1). For more information, see the Installation and Configuration Guide.

[IMP-857] Updated OpenSSL support

The connector now uses OpenSSL 1.1.1q. Previously, the connector used OpenSSL 1.1.1n.

Resolved Issues

The following issues have been resolved in Cloudera ODBC Connector for Impala 2.6.17.

- [IMP- 924][00394280] When the Delegation UID is set, the server parameters are not effected.
- [IMP- 892][00356762] The connector returns successfully during SQLPrepare but throws an error, "Unsupported query" during SQLExecute for some queries.

Version 2.6.16

Released 2022-04-14

Enhancements & New Features

[IMP-899][00370402] Improvements to idempotent HTTP operations

The connector's ability to retry idempotent HTTP operations when a transport error occurs has been enhanced.

[IMP-904][00371927] New mechanism for SAML SSO

The connector now includes a mechanism to close the browser automatically upon successful authentication via SAML SSO.

Note that the browser tab for the authentication session of the first connection that requires the user to enter the credentials does not automatically close. The browser tab for all subsequent connections attempts that do not require the user to enter the credentials will close automatically.

[IMP-857] Updated OpenSSL support

The connector now uses OpenSSL 1.1.1n. Previously, the connector used OpenSSL 1.1.1k.

Resolved Issues

The following issues have been resolved in Cloudera ODBC Connector for Impala 2.6.16.

- [IMP-889] In some cases, when executing a complex query that involves multiple joins, aggregations, and searched case statements, the connector terminates unexpectedly.

- [IMP-902][00368911] In some cases, when using HTTP, SSL, or proxy connections, the connector returns an "SSL_connect: wrong version number" error.

Version 2.6.14

Released 2021-09-17

Enhancements & New Features

[IMP-854] SSOIgnoreDriverNoPrompt support

For the SAML_2.0 browser authentication flow, the connector now displays the web browser used to complete the browser-based authentication flow even when SQL_DRIVER_NOPROMPT is passed. To do this, select the Ignore SQL_DRIVER_NOPROMPT check box (set the SSOIgnoreDriverNoPrompt property to true). For more information, see the *Installation and Configuration Guide*.

[IMP-857] Updated OpenSSL support

The connector now uses OpenSSL 1.1.1k. Previously, the connector used OpenSSL 1.1.1g.

Resolved Issues

The following issue has been resolved in Cloudera ODBC Connector for Impala 2.6.14.

- [IMP-852][00303650] The cyrus-sasl libraries do not pass the Binskim scan.

Version 2.6.13

Released 2021-02-26

Enhancements & New Features

[IMP-805][00263785] New authentication method

You can now authenticate your connection using SAML 2.0. For more information, see the *Installation and Configuration Guide*.

[IMP-782] Updated authentication mechanism support

The `AuthMech` property now uses the name of the authentication mechanism instead of the corresponding numbers. The following are the supported authentication mechanisms:

- No Authentication
- Kerberos
- SASL User Name
- User Name and Password
- SAML_2.0

The driver continues to recognize the corresponding numbers (0, 1, 2, and 3) for backwards compatibility. For more information, see the *Installation and Configuration Guide*.

Resolved Issues

The following issue has been resolved in Cloudera ODBC Connector for Impala 2.6.13.

- [IMP-846][00280482] When HTTP is enabled and two API calls with a time lag between them are made, the server resets the connection and the driver returns an error.

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.