Release Notes

Cloudera ODBC Connector for Apache Hive 2.8.0

Released 2024-06-21

These release notes provide details of enhancements, features, and known issues in Cloudera ODBC Connector for Apache Hive 2.8.0, as well as the version history.

Enhancements & New Features

[HAR-1400] Updated platform support

The connector now supports the following platform versions:

- Windows 11

- Windows Server 2022

- Debian 11

- Red Hat® Enterprise Linux® (RHEL) 8 and 9

- Ubuntu 22.04 and 24.04

- macOS 13 (Universal Binary – Intel and ARM support)

- IBM AIX 7.1 and 7.2

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

[HAR-1392] Upgraded Visual Studio support

The connector now uses Windows Visual Studio 2022. For a list of supported platform versions, see the *Installation and Configuration Guide.*

[HAR-1392] Security updates

The connector has been updated with security improvements.

[HAR-1392] Updated third-party libraries

The connector now uses the following third-party libraries:

- Expat 2.6.2 (previously 2.5.0)

- libcURL 8.7.1 (previously 8.1.2)

- OpenSSL 3.0.13 (previously 3.0.9)

- Zlib 1.3.1 (previously 1.2.13)

[HAR-1392] Updated security flags

The following security flags have been used to improve security checks in the connector:

- /CETCOMPAT

- /CFG

- /Qspectre

- /SDL

Known Issues

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

- [HAR-1171] The Hive server does not currently support using scientific notation for FLOAT type.

  As a workaround, to use scientific notation, cast the data to a DECIMAL. For example:

  SELECT CAST(3.33333e-07 AS DECIMAL)

- On Hive 3.0 and later, when the server does not set the metastore schema reader properly, the driver returns the following error:

  ```
  Error from server: error code: '0' error message:
  'MetaException(message:java.lang.UnsupportedOperationExcept
  ion: Storage schema reading not supported)'
  ```

  To resolve this issue, set the following in the Hive server:
  ```
  metastore.storage.schema.reader.impl=org.apache.hadoop.hive
  .metastore.SerDeStorageSchemaReader
  ```

Workflow Changes

The following changes may disrupt workflows from earlier versions.

Version 2.8.0

[HAR-1392] Removed Visual Studio 2015 support

Beginning with this release, the connector no longer supports Visual Studio 2015. For information about the supported Visual C++ Redistributable for Visual Studio versions, see the *Installation and Configuration Guide.*

[HAR-1400] Removed support for earlier versions of platform

Beginning with this release, the connector no longer supports the following versions of platform:

- Windows 8.1

- Windows Server 2012

- RHEL 7

- IBM AIX 5.3 and 6.1

- Ubuntu 18.04

- Debian 8 and 9

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

Version 2.7.0

[HAR-1350] 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.*

[HAR-1346] Updated SAML SSO cookie cache option

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

Version 2.6.15

[00404497] [HAR-1315] Updated QueryTimeoutOverride

The default value for `QueryTimeoutOverride` is now an `empty string`. Previously, the default value for `QueryTimeoutOverride` was `Zero`. For more information, see the *Installation and Configuration Guide*.

[00354530] [HAR-1271] Updated HTTPAuthCookies default value

The default value for `HTTPAuthCookies` is now `hive.server2.auth,JSessionID,KNOXSESSIONID,KNOX_BACKEND-HIVE`. Previously, the default value for `HTTPAuthCookies` was `hive.server2.auth,JSessionID`. For more information, see the *Installation and Configuration Guide*.

[HAR-1316] Updated SSOIgnoreDriverNoPrompt default value

The default value for `SSOIgnoreDriverNoPrompt` is now `true`. Previously, the default value for `SSOIgnoreDriverNoPrompt` was `false`. For more information, see the *Installation and Configuration Guide*.

Version 2.6.13

[HAR-1087][HAR-1089][HAR-1224][HAR-1229][HAR-1230][HAR-1231] Removed support for OS platforms

Beginning with this release, the connector no longer supports the following OS platforms:

- macOS 10.9, 10.10, 10.11, and 10.12

- CentOS 6 / RHEL 6

- SLES 11

- Ubuntu 14.04 and 16.04

- Debian 6 and 7

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

[HAR-1095] Removed support for Visual C++ Redistributable for Visual Studio 2013

Beginning with this release, the connector no longer supports this version of the dependency and requires Visual C++ Redistributable for Visual Studio 2015

instead. For information about the supported Visual C++ Redistributable for Visual Studio versions, see the *Installation and Configuration Guide*.

Version 2.6.11

[HAR-1205] 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*.

Version 2.6.9

Removed support for Apache Hive versions earlier than 1.0.0

Beginning with this release, the driver no longer supports Apache Hive versions earlier than 1.0.0. For a list of supported Apache Hive 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 2.7.0

Released 2023-06-23

Enhancements & New Features

[HAR-1272] Updated Hive server version support

The connector now supports Apache Hive server versions 1.0 through 3.1.3. For a list of supported Hive server versions, see the *Installation and Configuration Guide.*

[HAR-1350] 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.

[HAR-1344][HAR-1349] [HAR-1351] Updated third-party libraries

The connector now uses the following third-party libraries:

- Apache Thrift 0.17.0 (previously 0.9.0)

- Apache ZooKeeper 3.7.1 (previously 3.4.6)

- 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 (previously 58.2.x)

- libcURL 8.1.2 (previously 7.84.0)

- lz4 1.9.4 (previously 1.9.3)

- OpenSSL 3.0.9 (previously 1.1.1s)

- Simba Engine SDK 10.2 (previously 10.1)

- Zlib 1.2.13 (previously 1.2.11)

Resolved Issues

The following issues have been resolved in Cloudera ODBC Connector for Apache Hive 2.7.0.

- [00420434] [HAR-1337] When in ZooKeeper discovery mode and a network error occurs, the connector does not connect to the same HS2 instance on a reconnecting attempt.

- [HAR-1325][HAR-1330] When executing a query with CREATE TABLE AS SELECT, the connector refers to a schema as an invalid table and returns an error.

Version 2.6.16

Released 2023-02-17

Resolved Issues

The following issue has been resolved in Cloudera ODBC Connector for Apache Hive 2.6.16.

[HAR-1335] In some cases, when handling primary keys and foreign keys catalog functions, the connector terminates unexpectedly.

Version 2.6.15

Released 2023-01-20

Enhancements & New Features

[HAR-1311] Updated OpenSSL support

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

[HAR-1314] SAML SSO cookie cache support

You can now avoid invoking multiple browser prompts when connecting with 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` property to 1). For more information, see the *Installation and Configuration Guide*.

Resolved Issues

The following issue has been resolved in Cloudera ODBC Connector for Apache Hive 2.6.15.

[00416069] [HAR-1323] The REMARKS column of the tables metadata does not populate with comments.

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.