Release Notes

Hortonworks Hive ODBC Driver with SQL Connector 2.6.1

Released 2018-08-17

The release notes provide details of enhancements and features in Hortonworks Hive ODBC Driver with SQL Connector 2.6.1, as well as the version history.

Enhancements & New Features

[HAR-732] Minimum TLS support

You can now specify the minimum version of TLS the driver accepts when authenticating the connection to the data source.

[HAR-822] Updated OpenSSL version

The driver now uses OpenSSL version 1.1.0h. Previously, the driver used OpenSSL version 1.0.2n.

[HAR-807] More informative SSL error messages

The driver now provides more detailed error messages for TLS/SSL errors.

[HAR-820] Catalog configuration improvements

Internal improvements were made to the way the driver configures the catalog, schema, table, and column name lengths.

[HAR-657] Configuration instructions for Delegation UID

The driver documentation now provides additional configuration instructions for enabling the Delegation UID function on a clustered server or when using Kerberos authentication.

[HAR-883] Hive 3.1 now supported

The driver now supports Apache Hive versions 0.11 through 3.1.

Resolved Issues

The following issues have been resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.6.1.

- [HAR-833] CAST AS VARCHAR(n) returns incorrect metadata.

- [HAR-853] HiveServerType value is incorrect in some documentation examples.
- [HAR-838] If the driver is installed into a folder that contains Unicode characters in its name, the driver fails to connect to the server and returns the following error message: "No worthy mechs found".
- [HAR-829] The driver cannot store ODBCMessages.xml files in folders with names that include Japanese characters.
- [HAR-835] The driver property key EnableUniqueColumnName is misspelled as EnalbeUniqueColumnName.

Workflow Changes

The following changes may disrupt workflows from earlier versions.

Version 2.6.1

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 2.1.16

Released 2018-03-08

Resolved Issues

The following issue has been resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.16.

- The logging feature is always enabled.

  This issue has been resolved. The driver now enables or disables logging based on the Log Level (or `LogLevel`) setting, instead of always enabling logging regardless of that setting.

Version 2.1.15

Released 2018-03-02

Enhancements & New Features

Hive 2.1 support

The driver now supports Apache Hive versions 0.11 through 2.1.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.6.1.

- When authenticating through Kerberos, if the Host FQDN option (the `KrbHostFQDN` property) is set to an invalid value, the driver terminates unexpectedly.

  This issue has been resolved. The driver now returns an error when an invalid value has been specified.

- When SQLColumns is called, the driver does not return column remarks.

- When returning query results, the driver does not include table names as part of the column names even when the server-side property `hive.resultset.use.unique.column.names` is set to `true`.

- When querying columns that contain CR/LF (carriage return/line feed) characters in their comments, the driver returns fewer columns than expected.

- When SQLGetInfo is called, the driver does not display information about the supported functions or properties.

- The driver does not support the SQL_FN_STR_LEFT and SQL_FN_STR_RIGHT functions.

- In some cases, during query execution the system message "Error creating temporary swap file name" may be displayed.

Version 2.1.14

Released 2017-10-20

Enhancements & New Features

Updated Kerberos configuration

The Host FQDN and Service Name configuration options (the `KrbHostFQDN` and `KrbServiceName` connection properties) are now optional. Also, the driver now automatically canonicalizes the server SPN when using Active Directory Kerberos.

Prefixes for log file names

You can now configure the driver to add a prefix to log file names. The prefix includes the user name associated with the connection and the process ID of the application through which the connection is made. To enable this feature, set the `UseLogPrefix` connection property to `1`. For more information, see the *Installation and Configuration Guide*.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.14.

- AD Kerberos authentication may use the wrong user when enabling constrained delegation in Tableau server on Windows.
- `SQLGetInfo(SQL_KEYWORDS)` returns an empty string.

  The driver now returns a comma separated list of keywords natively defined by the data source except for the ones that are also ODBC reserved words.

Version 2.1.12

Released 2017-06-26

Enhancements & New Features

Convert letter case of delegated user names

You can now configure the driver to change the Delegation UID (or `DelegationUID`) value to all upper-case or all lower-case. To do this, set the `DelegationUserIDCase` connection property.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.12.

- The statement “set hive.support.quoted.identifiers=column” is executed incorrectly.
- Driver reports that only read operations are supported in the driver log.
- The INFINITY value for FLOAT columns is not correctly retrieved.
- Error/status code returned for query timeout error is incorrect.
- NaN value retrieved for FLOAT columns is incorrect.
- The operation handle for metadata API calls is not closed correctly.

Version 2.1.10

Released 2017-03-23

Enhancements & New Features

Updated third-party library dependencies

The driver has been updated to incorporate newer versions of the third-party library dependencies.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.10.

- When attempting to use the Windows trust store on Windows Server 2016, an access violation exception occurs.
- Error message contains typo, misspelling "URI" as "UIR".
- Driver converts COALESCE function to less efficient CASE statement.
- In the Hortonworks Hive ODBC Driver Configuration tool for DSN-less connections, the Enable Auto Reconnect option is disabled by default.

  This option is now enabled by default, which is the expected default setting.
- In some cases, when upgrading the macOS driver from an earlier version to a later one, the installation process fails to update the `odbcinst.ini` configuration file.

Before, upgrading the driver sometimes required you to make changes to the `~/Library/ODBC/odbcinst.ini` file manually. The driver installation process has been updated so that manual changes are no longer necessary.

- Segmentation fault in Driver Manager detection on Linux.

If you use an alias to refer to the Hive server host name while authenticating through Kerberos, the driver fails to connect.

Version 2.1.7

Released 2016-11-17

Enhancements & New Features

Support for the Windows trust store

You now have the option to use the CA certificates in the Windows trust store for server verification when using SSL.

Auto Reconnect

You can now configure the driver to automatically attempt reconnection to the Hive server if communications are lost.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.7.

- Driver fails to connect to the server when using TLS 1.2.
- When executing a query that contains a CASE statement, the driver replaces the greater than sign (>) with an equal sign (=).
- Driver does not correctly translate queries that contain the IS NOT NULL operator.

Version 2.1.6

Released 2016-10-06

Enhancements & New Features

New installation location for macOS

On macOS, the driver now installs to `/Library/hortonworks/hive`. Previously, the driver installed to `/opt/hortonworks/hive`.

Version 2.1.5

Released 2016-07-12

The release notes provide details of enhancements and features in Hortonworks Hive ODBC Driver with SQL Connector 2.1.5, as well as the version history.

Enhancements & New Features

Delegate Kerberos credentials

You can now have the driver forward your Kerberos user credentials to the server to simplify the authentication process.

Host FQDN default

If no value is set for the `Host FQDN` option, it will now default to `_HOST`.

Optimized Fast SQLPrepare behavior

The Fast SQLPrepare driver configuration option (the FastSQLPrepare key) is now disabled for non-SELECT queries. This ensures that the driver retrieves the necessary result set metadata at prepare time.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.5.

- Unicode characters in parameter values causing errors.
- Returning errors for some queries with dates in them.
- Unable to create new tables when "Unicode character types" option set.

Version 2.1.4

Released 2016-04-15

The release notes provide details of enhancements and features in Hortonworks Hive ODBC Driver with SQL Connector 2.1.4, as well as the version history.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.4.

- Driver reports duplicate entries for SQLTables and SQLColumns.

Version 2.1.3

Released 2016-04-07

Enhancements & New Features

Support added for Red Hat Enterprise Linux (RHEL) 7 and CentOS 7

You can now install and run the Linux version of the driver on machines that run RHEL 7 or CentOS 7.

Updated authentication support

For consistency with Microsoft Azure HDInsight updates, the Windows Azure HDInsight Emulator authentication mechanism (`AuthMech=5`) is now deprecated. The driver no longer supports connections to Hive server instances that run on Windows Azure HDInsight Emulator.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.3.

- When executing a query that uses regular expressions in the fields, an error occurs.

  This issue has been resolved. Before, this problem occurred when querying Hive servers that are configured to not allow quoted identifiers (the `hive.support.quoted.identifiers` parameter is set to `none`), because these servers cannot parse the backquotes (`` ` ``) used for regular expressions.

- Driver truncates passwords that exceed the maximum character length of the Password field in the Hortonworks Hive ODBC Driver DSN Setup dialog box.

  The maximum character length of the Password field has been increased to 5000 characters.

- In some cases, the driver stops working intermittently.

  This issue has been resolved. Before, this problem occurred due to improper timing and sequence of operations between the execution context and the fetch thread.

Version 2.1.2

Released 2016-03-01

Enhancements & New Features

Updated handling of result set metadata

When connected to Hive 0.14 or later, the driver now reports result set columns as being updatable, improving compatibility with the DotNet Odbc library and OdbcDataAdapter.

Updated default socket timeout threshold

The default value of the Socket Timeout option (the SocketTimeout key) has been changed from 30 to 60.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.2.

- When attempting to connect to the server using a non-Windows version of the driver with Service Discovery Mode enabled, the client stops working.
- When executing a parameterized INSERT statement on a DATE, DECIMAL, or TIMESTAMP column, an error occurs.
- When executing a query that contains a large number of filters using OR operators, an error occurs.

Version 2.1.0

Released 2015-12-24

Enhancements & New Features

Support added for ODBC 3.80

The driver now supports ODBC 3.80. Previously, the driver supported ODBC 3.52.

Red Hat Enterprise Linux (RHEL) 7 now supported

You can now install and run the Linux version of the driver on machines that run Red Hat Enterprise Linux 7.

Improved implementation of SQLCancel

The driver now implements industry-standard behavior for when SQLCancel is called while query results are being fetched.

Upgraded OpenSSL library

The driver now uses OpenSSL 1.0.1l. Previously, the driver used OpenSSL 1.0.0q.

Upgraded ICU library

The driver now uses ICU 53.1. Previously, the driver used ICU 3.8.1.

Implemented driver configuration option for automatically opening a new session against Hive Server 2 when the existing session becomes invalid

You can now use the Invalid Session Auto Recover option (the InvalidSessionAutoRecover key) to configure the driver to automatically open a new session when it detects that the current session is no longer valid. This feature is available only for connections to Hive Server 2 instances.

Automatically configure settings in hortonworks.hiveodbc.ini file

On non-Windows platforms, the DriverManagerEncoding and ODBCInst settings are now configured automatically based on the driver manager (iODBC or unixODBC) that is used.

Updated driver logging options

You can now specify the maximum size of each log file by using the "Max File Size" option (the LogFileSize key), and specify the maximum number of log files to keep by using the "Max Number Files" option (the LogFileCount key). Also, in the Logging Options dialog box for the Windows driver, you now have the option of browsing for the folder where you want to save log files instead of typing the path.

Updated installation directory for the Mac OS X driver

The Mac OS X version of the driver is now installed to the `/opt/hortonworks/hiveodbc` directory. Before, the driver was installed to the `/usr/lib/hive/lib/native/` directory.

Resolved Issues

The following issues were resolved in Hortonworks Hive ODBC Driver with SQL Connector 2.1.0.

- DSN configurations cannot be saved when you are working as a non-administrator user.
- When query execution results in a MapReduce error, the driver closes the current connection and opens a new one.
- Driver terminates unexpectedly when preparing a parameterized INSERT statement.

- Driver terminates unexpectedly when the application unloads the driver without closing all connections.

Contact Us

If you have difficulty using the Hortonworks Hive ODBC Driver with SQL Connector, please contact our support staff. We welcome your questions, comments, and feature requests.

Please have a detailed summary of the client and server environment (OS version, patch-level, Hadoop distribution version, Spark version, configuration etc.) ready, before you call or write us. Supplying this information accelerates support.

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