



Simba Presto ODBC Data Connector

Installation and Configuration Guide

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About This Guide

Purpose

The *Simba Presto ODBC Data Connector Installation and Configuration Guide* explains how to install and configure the Simba Presto ODBC Data Connector. The guide also provides details related to features of the connector.

Audience

The guide is intended for end users of the Simba Presto ODBC Connector, as well as administrators and developers integrating the connector.

Knowledge Prerequisites

To use the Simba Presto ODBC Connector, the following knowledge is helpful:

- Familiarity with the platform on which you are using the Simba Presto ODBC Connector
- Ability to use the data source to which the Simba Presto ODBC Connector is connecting
- An understanding of the role of ODBC technologies and driver managers in connecting to a data source
- Experience creating and configuring ODBC connections
- Exposure to SQL

Document Conventions

Italics is used when referring to book and document titles.

Bold is used in procedures for graphical user interface elements that a user clicks and text that a user types.

Monospace font indicates commands, source code, or contents of text files.



Note: A text box with a pencil icon indicates a short note appended to a paragraph.



Important: A text box with an exclamation mark indicates an important comment related to the preceding paragraph.

About the Simba Presto ODBC Connector

About Presto

Presto is a low latency distributed query engine capable of querying large datasets from multiple data sources using SQL. Presto is designed for short, interactive queries useful for data exploration.

The data sources that Presto supports include MySQL and PostgreSQL. Presto also integrates seamlessly with the Hive metastore to complement existing Hive environments with low latency queries. Unlike traditional RDBMS or SQL-on-Hadoop solutions that require centralized schema definitions, Presto can query self-describing data as well as complex or multi-structured data that is commonly seen in big data systems. Moreover, Presto does not require a fully structured schema and can support semi-structured or nested data types such as JSON.

Presto processes the data in record batches and discovers the schema during the processing of each record batch. Thus, Presto has the capability to support changing schemas over the lifetime of a query. Presto reconfigures its operators and handles these situations to ensure that data is not lost.

**Note:**

For information about connecting Presto to data sources, see the Presto documentation: <https://prestodb.io/docs/current/>.

About the Driver

The Simba Presto ODBC Connector lets organizations connect their BI tools to Presto. Presto provides an ANSI SQL query layer and also exposes the metadata information through an ANSI SQL standard metadata database called INFORMATION_SCHEMA. The Simba Presto ODBC Connector leverages INFORMATION_SCHEMA to expose Presto's metadata to BI tools as needed.

The connector complies with the ODBC 3.80 data standard, including important functionality such as Unicode and 32- and 64-bit support for high-performance computing environments on all platforms.

ODBC is one of the most established and widely supported APIs for connecting to and working with databases. At the heart of the technology is the ODBC connector, which connects an application to the database. For more information about ODBC, see: <https://insightsoftware.com/blog/what-is-odbc/>. For complete information about the ODBC specification, see the *ODBC API Reference* from the Microsoft documentation: <https://docs.microsoft.com/en-us/sql/odbc/reference/syntax/odbc-api-reference>.

The Simba Presto ODBC Connector is available for Microsoft® Windows®, Linux, and macOS platforms.

The *Simba Presto ODBC Data Connector Installation and Configuration Guide* is suitable for users who are looking to access data residing within Presto from their desktop environment. Application developers may also find the information helpful. Refer to your application for details on connecting via ODBC.

About SQLParse Methods

The SOQL_FIRST and SQL_FIRST parse methods may lead to different behavior for similar queries. This occurs when the connector switches between the two modes trying to find a query language that

can support the inputted query. Behavior will be consistent when the query language the connector decides to use remains consistent, however changes to the query may cause it to fail in one of the languages. For example, when using SOQL_FIRST mode you issue a query that is executable as SOQL. In a subsequent transaction, you slightly modify the query and it becomes invalid in SOQL, but is valid in SQL. This results in the first query being executed using SOQL and the second query being executed using SQL. This can cause slight differences between the two result sets since the behavior is not the same for all SOQL and SQL queries.

One instance where this occurs is comparisons involving null values, because SOQL and SQL handle comparisons against null differently. SQL returns an unknown state if a comparison operator (such as = or >) is used with null, and the results contain zero rows. However, SOQL allows such a comparison and returns results.

Using the SOQL_FIRST mode, you issue the query `SELECT Name FROM Account WHERE NumberOfEmployees = NULL`. This query is valid SOQL and the returned values contain all non-null values as specified by SOQL. Next you issue the query `SELECT Account.Name FROM Account, Contact WHERE Account.Id = Contact.AccountId AND Account.NumberOfEmployees = NULL`. This query is not valid SOQL but is valid SQL. It returns zero values as specified by the SQL specification. The first query may have lead you to believe that the second query would also return results, but difference in query language used means second query returns no results.

If you require consistent behavior in these types of instances, use either SOQL_ONLY or the SQL_ONLY mode.

Platform and Data source version support

The Simba Presto ODBC Connector supports Windows, macOS, and Linux operating systems. For detailed information on supported operating systems and data source versions, please refer to the connector's release notes.

Windows Connector

This section provides an overview of the Connector in the Windows platform, outlining the required system specifications and the steps for installing and configuring the connector in Windows environments.

Windows System Requirements

Install the connector on client machines where the application is installed. Before installing the connector, make sure that you have the following:

- Administrator rights on your machine.
- 75 MB of available disk space

Before the connector can be used, the Visual C++ Redistributable for Visual Studio 2022 with the same bitness as the connector must also be installed. If you obtained the connector from the Simba website, then your installation of the connector automatically includes this dependency. Otherwise, you must install the redistributable manually. You can download the installation packages for the redistributable at <https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170>.

Installing the Connector in Windows

If you did not obtain this connector from the Simba website, you might need to follow a different installation procedure. For more information, see the *Simba OEM ODBC Connector Installation Guide*.

On 64-bit Windows operating systems, you can execute both 32-bit and 64-bit applications. However, 64-bit applications must use 64-bit connectors, and 32-bit applications must use 32-bit connectors. Make sure that you use a connector whose bitness matches the bitness of the client application:

- `SimbaPrestoODBC32.msi` for 32-bit applications
- `SimbaPrestoODBC64.msi` for 64-bit applications

You can install both versions of the connector on the same machine.

To install the Simba Presto ODBC Connector in Windows:

1. Click **Next**.
2. Select the check box to accept the terms of the License Agreement if you agree, and then click **Next**.
3. To change the installation location, click **Change**, then browse to the desired folder, and then click **OK**. To accept the installation location, click **Next**.
4. Click **Install**.
5. When the installation completes, click **Finish**.
6. If you received a license file through email, then copy the license file into the `\lib` subfolder of the installation folder you selected above. You must have Administrator privileges when changing the contents of this folder.

Creating a Data Source Name in Windows

Typically, after installing the Simba Presto ODBC Connector, you need to create a Data Source Name (DSN).

Alternatively, for information about DSN-less connections, see [Using a Connection String](#).

To create a Data Source Name in Windows:

1. From the Start menu, go to **ODBC Data Sources**.

Note: Make sure to select the ODBC Data Source Administrator that has the same bitness as the client application that you are using to connect to Presto.

2. In the ODBC Data Source Administrator, click the **Drivers** tab, and then scroll down as needed to confirm that the Simba Presto ODBC Connector appears in the alphabetical list of ODBC Drivers that are installed on your system.
3. Choose one:
 - To create a DSN that only the user currently logged into Windows can use, click the **User DSN** tab.
 - Or, to create a DSN that all users who log into Windows can use, click the **System DSN** tab.

Note: It is recommended that you create a System DSN instead of a User DSN. Some applications load the data using a different user account, and might not be able to detect User DSNs that are created under another user account.

4. Click **Add**.
5. In the Create New Data Source dialog box, select **Simba Presto ODBC Connector** and then click **Finish**. The Simba Presto ODBC Connector DSN Setup dialog box opens.
6. In the **Data Source Name** field, type a name for your DSN.
7. Optionally, in the **Description** field, type relevant details about the DSN.
8. If the database that you are connecting to requires authentication, then use the options in the Authentication area to configure authentication as needed. For more information, see .
9. In the **Host** field, type the IP address or host name of the Presto server.
10. In the **Port** field, type the number of the TCP port that the Presto server uses to listen for client connections.

Note: The default port number used by Presto is 8080.

11. In the **Catalog** field, type the name of the synthetic catalog under which all of the schemas/databases are organized.
12. In the **Schema** field, type the name of the schema for the connector to use.

13. Optionally, in the **Time Zone ID** field, type the name of the time zone for the connector to use, in tz database format. For a list of time zones in tz database format, see https://en.wikipedia.org/wiki/List_of_tz_database_time_zones. If a time zone is not specified, the connector uses the system time zone.
14. To configure client-server verification over SSL, click **SSL Options**. For more information, see [Configuring SSL Verification in Windows](#).
15. To configure advanced connector options, click **Advanced Options**. For more information, see [Configuring Advanced Options in Windows](#).
16. To configure a connection to a datasource through a proxy server, click **Proxy Options**. For more information, see [Configuring a Proxy Connection in Windows](#).
17. To configure logging behavior for the driver, click **Logging Options**. For more information, see [Configuring Logging Options in Windows](#).
18. To test the connection, click **Test**. Review the results as needed, and then click **OK**.



Note: If the connection fails, then confirm that the settings in the Simba Presto ODBC Driver DSN Setup dialog box are correct. Contact your Prestoserver administrator as needed.

19. To save your settings and close the Simba Presto ODBC Driver DSN Setup dialog box, click **OK**.
20. To close the ODBC Data Source Administrator, click **OK**.

Configuring Advanced Options in Windows

You can configure advanced options to modify the behavior of the connector.

To configure advanced options in Windows:

1. Open the ODBC Data Source Administrator where you created the DSN, then select the DSN, then click **Configure**, and then click **Advanced Options**.
2. To specify the version of the Prestoserver that the connector is connecting to, in the **Server Version** field, type the server version number.
3. To automatically test the connection, select **Connection Test**.
4. To automatically populate the metadata for parameters, select **Auto Populate Parameter Metadata**.
5. Choose one:
 - To return SQL_WVARCHAR for VARCHAR columns, and SQL_WCHAR for CHAR columns, select the **Use Unicode SQL Character Types** check box.
 - Or, to return SQL_VARCHAR for VARCHAR columns and SQL_CHAR for CHAR columns, clear the **Use Unicode SQL Character Types** check box.
6. To make calls to SQLTables and SQLColumns without specifying a catalog, select **Allow Metadata From Multiple Catalogs**.



Note: When this option is enabled and the connector makes a call to `SQLTables` or `SQLColumns`, the connector queries all catalogs. This may impact performance.

7. To use the schema name passed in the DSN for metadata queries, select **Use DSN Schema For Metadata**.
8. To use the System Catalog API to run metadata queries, select **Use System Catalog For Metadata**.
9. To use an equal sign (=) in metadata queries, select **Use Equal In Metadata Filters**.
10. To enable the connector to ignore `SQL_ATTR_AUTOCOMMIT` and always auto commit, select **AutoCommit Always True**.
11. To allow HTTP redirects, select **Allow HTTP Redirect**.
12. To make sure that the username is in lowercase, enable **Force LowerCase UserName**.
13. To specify the maximum data type length for complex types that the connector casts to VARCHAR (JSON, MAP, ROW, and ARRAY), in the **Max Complex Type Column Length** field, type the maximum length.
14. To specify the maximum number of characters that the connector can return for the names of certain database objects, do one or more of the following:
 - In the **Max Catalog Name Length** field, type the maximum number of characters that the reports for `SQL_MAX_CATALOG_NAME_LEN`.
 - In the **Max Schema Name Length** field, type the maximum number of characters that the reports for `SQL_MAX_SCHEMA_NAME_LEN`.
 - In the **Max Table Name Length** field, type the maximum number of characters that the reports for `SQL_MAX_TABLE_NAME_LEN`.
 - In the **Max Column Name Length** field, type the maximum number of characters that the reports for `SQL_MAX_COLUMN_NAME_LEN`.
 - In the **Max Varchar Column Length** field, type the maximum number of characters for VARCHAR column names.
 - In the **Max Prepared Statement Length** field, type the maximum prepared query size.
15. To configure the connector to use a Presto Resource Group, do one or more of the following:
 - Optionally, in the **Application Name Prefix** field, type any required prefixes for the Application Name property.
 - In the **Application Name** field, type the application flag you want applied to the queries sent by the connector.
 - In the **ClientTags** field, type a comma-separated list of resource group tags that you want applied to the queries sent by the connector.

16. In the **ExtraCredentials** field, type a comma-separated list of key-value pairs that you want to pass to an external service.
17. In the **Roles** field, type a comma-separated list of key-value pairs for catalog and role.
18. To save your settings and close the Advanced Options dialog box, click **OK**.

Configuring Authentication in Windows

Some Presto data stores require authentication. You can configure the Simba Presto ODBC Connector to provide your credentials and authenticate the connection to the database using one of the following methods:

- [Configuring Kerberos Authentication in Windows](#)
- [Configuring LDAP Authentication in Windows](#)

Note: If Kerberos or LDAP authentication is enabled, then SSL is automatically enabled.

Configuring Kerberos Authentication in Windows

You can configure the connector to use the Kerberos protocol to authenticate the connection.

When you log in to Windows, the operating system automatically caches your credentials. When the connector is run, it loads your Kerberos credentials from the Windows Kerberos cache.

When using Kerberos authentication:

- The connector sends the Kerberos default user principal name as the user name.
- When GSSAPI is enabled (MIT Kerberos) and the Kerberos ticket is generated, the default user principal name is retrieved from the MIT Kerberos credential cache.
- When GSSAPI is disabled (AD Kerberos) and the Kerberos ticket is generated, the default user principal name is retrieved from the Windows Kerberos credential cache.
- If the connector is unable to retrieve the Kerberos default user principal name in either case of MIT or AD Kerberos, the connector sends the default user name `PrestoODBC_Driver`, and reports a warning in the logs.

Note: If Kerberos authentication is enabled, then SSL is automatically enabled.

To configure the connector to use Kerberos authentication in Windows:

1. Open the ODBC Data Source Administrator where you created the DSN, select the DSN, and then click **Configure**. The DSN Setup dialog box opens.
2. From the **Authentication Type** drop-down list, select **Kerberos Authentication**.
3. To use the MIT Kerberos library, select the **Use GSSAPI** check box.

4. Optionally, to generate a ticket using a Kerberos user name and password:
 - a. Select the **Use Existing Kerberos Credentials** check box to use the existing Kerberos Credentials, or clear the check box to generate new credentials.
 - b. Click **Kinit Options**. The Kinit Options dialog box opens.
 - c. From the **Kinit Type** drop-down list, select **Kinit with Password**.
 - d. Optionally, to forward the generated Kerberos credentials, select **Delegate Kerberos Credentials**.
 - e. In the **Kerberos Username** field, type your Kerberos user name.
 - f. In the **Kerberos Password** field, type your Kerberos password.
5. Optionally, to generate a ticket using a Kerberos user name and a keytab file:
 - a. Select the **Use Existing Kerberos Credentials** check box to use the existing Kerberos Credentials, or clear the check box to generate new credentials.
 - b. Click **Kinit Options**. The Kinit Options dialog box opens.
 - c. From the **Kinit Type** drop-down list, select **Kinit with Keytab**.
 - d. Optionally, to forward the generated Kerberos credentials, select **Delegate Kerberos Credentials**.
 - e. In the **Kerberos Username** field, type your Kerberos user name.
 - f. In the **Keytab File Path** field, select the full path of the keytab file.
6. Optionally, to use a service principal name other than the default of HTTP, in the **Service Name** field, type the service name of the Prestoserver.
7. To configure client-server verification over SSL, click **SSL Options**. For more information, see [Configuring SSL Verification in Windows](#).
8. To save your settings and close the dialog box, click **OK**.

You can now use the connector to authenticate through Kerberos and connect to your Prestoserver.

Configuring LDAP Authentication in Windows

You can configure the connector to use the LDAP protocol to authenticate the connection.

Note: If LDAP authentication is enabled, then SSL is automatically enabled.

To configure LDAP authentication in Windows:

1. Open the ODBC Data Source Administrator where you created the DSN, select the DSN, and then click **Configure**.
2. From the **Authentication Type** drop-down list, select **LDAP Authentication**.
3. In the **User** field, type an appropriate user name for accessing the data store.
4. In the **Password** field, type the password corresponding to the user name that you specified above.

5. To encrypt your credentials, click **Password Options** and then select one of the following:
 - If the credentials are used only by the current Windows user, select **Current User Only**.
 - Or, if the credentials are used by all users on the current Windows machine, select **All Users Of This Machine**.
6. To configure client-server verification over SSL, click **SSL Options**. For more information, see [Configuring SSL Verification in Windows](#).
7. To save your settings and close the dialog box, click **OK**.

You can now use the connector to authenticate through LDAP and connect to your Prestoserver.

Configuring SSL Verification in Windows

If you are connecting to a Presto server that has Secure Sockets Layer (SSL) enabled, you can configure the connector to connect to an SSL-enabled socket. When using SSL to connect to a server, the connector can be configured to verify the identity of the server.

Note: If Kerberos or LDAP authentication is enabled, then SSL is automatically enabled.

To configure SSL verification in Windows:

1. To access SSL options, open the ODBC Data Source Administrator where you created the DSN, then select the DSN, then click **Configure**, and then click **SSL Options**.
2. Select the **Enable SSL** check box.
3. To allow authentication using self-signed certificates that have not been added to the list of trusted certificates, select the **Allow Self-signed Server Certificate** check box.
4. To allow the common name of a CA-issued SSL certificate to not match the host name of the Presto server, select the **Allow Common Name Host Name Mismatch** check box.
5. To specify the CA certificates that you want to use to verify the server, do one of the following:
 - To verify the server using the trusted CA certificates from a specific .pem file, specify the full path to the file in the **Trusted Certificates** field and clear the **Use System Trust Store** check box.
 - Or, to use the trusted CA certificates .pem file that is installed with the connector, leave the default value in the **Trusted Certificates** field, and clear the **Use System Trust Store** check box.

- Or, to use the Windows trust store, select the **Use System Trust Store** check box.



Important:

- If you are using the Windows trust store, make sure to import the trusted CA certificates into the trust store.
- If the trusted CA supports certificate revocation, select the **Check Certificate Revocation** check box.

6. From the **Minimum TLS Version** drop-down list, select the minimum version of TLS to use when connecting to your data store.
7. To configure two-way SSL verification, select the **Two-Way SSL** check box and then do the following:
 - a. In the **Client Certificate File** field, specify the full path of the PEM file containing the client's certificate.
 - b. In the **Client Private Key File** field, specify the full path of the file containing the client's private key.
 - c. If the private key file is protected with a password, type the password in the **Client Private Key Password** field.



Important: The password is obscured, that is, not saved in plain text. However, it is still possible for the encrypted password to be copied and used.

- d. To encrypt your credentials, click **Password Options** and then select one of the following:
 - If the credentials are used only by the current Windows user, select **Current User Only**.
 - Or, if the credentials are used by all users on the current Windows machine, select **All Users Of This Machine**.
8. To save your settings and close the SSL Options dialog box, click **OK**.

Configuring a Proxy Connection in Windows

If you are connecting to the data source through a proxy server, you must provide connection information for the proxy server.

To configure a proxy server connection in Windows:

1. To access proxy server options, open the ODBC Data Source Administrator where you created the DSN, then select the DSN, then click **Configure**, and then click **Proxy Options**.
2. Select the **Use Proxy Server** check box.
3. In the **Proxy Host** field, type the host name or IP address of the proxy server.
4. In the **Proxy Port** field, type the number of the TCP port that the proxy server uses to listen for client connections.

5. In the **Proxy Username** field, type your user name for accessing the proxy server.
6. In the **Proxy Password** field, type the password corresponding to the user name.
7. In the **Non Proxy Hosts** field, type a list of hosts separated by a comma (,), that the connector can access without connecting through the proxy server, when a proxy connection is enabled.
8. Optionally, to save the proxy server password in the Windows registry, select **Save Password (Encrypted)**.
9. To save your settings and close the Proxy Options dialog box, click **OK**.

Configuring FIPS in Windows

You can configure the FIPS (Federal Information Processing Standards) module to ensure the security, quality, and processing compatibility of various services.

Note: To enable FIPS support, a separate FIPS downloadable package is available for assistance.

To configure FIPS in Windows:

1. Unzip the `OpenSSL_3.0_Modules_Windows_vs2022.zip` Windows package released with the connector.
2. Follow the instructions mentioned in the **README.md** file.

Note: Make sure that all the FIPS module binary files are present in the `OPENSSL_MODULES` path, otherwise the connector does not work as expected.

Exporting a Data Source Name in Windows

After you configure a DSN, you can export it to be used on other machines. When you export a DSN, all of its configuration settings are saved in a `.sdc` file. You can then distribute the `.sdc` file to other users so that they can import your DSN configuration and use it on their machines.

To export a Data Source Name in Windows:

1. Open the ODBC Data Source Administrator where you created the DSN, select the DSN, click **Configure**, and then click **Logging Options**.
2. Click **Export Configuration**, specify a name and location for the exported DSN, and then click **Save**.

Your DSN is saved as a `.sdc` file in the location that you specified.

Importing a Data Source Name in Windows

You can import a DSN configuration from a `.sdc` file and then use those settings to connect to your data source.

To import a Data Source Name in Windows:

1. Open the ODBC Data Source Administrator where you created the DSN, select the DSN, click **Configure**, and then click **Logging Options**.
2. Click **Import Configuration**, browse to select the `.sdc` file that you want to import the DSN configuration from, and then click **Open**.
3. Click **OK** to close the Logging Options dialog box.

The SimbaPresto ODBC Driver DSN Setup dialog box loads the configuration settings from the selected `.sdc` file. You can now save this DSN and use it to connect to your data source.

Configuring Logging Options in Windows

To help troubleshoot issues, you can enable logging. In addition to functionality provided in the Simba Presto ODBC Connector, the ODBC Data Source Administrator provides tracing functionality.

Important: Only enable logging or tracing long enough to capture an issue. Logging or tracing decreases performance and can consume a large quantity of disk space.

Configuring Connector-wide Logging Options

The settings for logging apply to every connection that uses the Simba Presto ODBC Connector, so make sure to disable the feature after you are done using it. To configure logging for the current connection, see [Configuring Logging for the Current Connection](#).

To enable connector-wide logging in Windows:

1. To access logging options, open the ODBC Data Source Administrator where you created the DSN, then select the DSN, then click **Configure**, and then click **Logging Options**.
2. From the **Log Level** drop-down list, select the logging level corresponding to the amount of information that you want to include in log files:

Logging Level	Description
OFF	Disables all logging.
FATAL	Logs severe error events that lead the connector to abort.
ERROR	Logs error events that might allow the connector to continue running.
WARNING	Logs events that might result in an error if action is not taken.
INFO	Logs general information that describes the progress of the connector.
DEBUG	Logs detailed information that is useful for debugging the connector.
TRACE	Logs all connector activity.

3. In the **Log Path** field, specify the full path to the folder where you want to save log files.
4. In the **Max Number Files** field, type the maximum number of log files to keep.

Note: After the maximum number of log files is reached, each time an additional file is created, the connector deletes the oldest log file.

5. In the **Max File Size** field, type the maximum size of each log file in megabytes (MB).



Note: After the maximum file size is reached, the connector creates a new file and continues logging.

6. Click **OK**.
7. Restart your ODBC application to make sure that the new settings take effect.

The Simba Presto ODBC Connector produces the following log files at the location you specify in the Log Path field:

- A `simbaprestoodbcdriver.log` file that logs connector activity that is not specific to a connection.
- A `simbaprestoodbcdriver_connection_[Number].log` file for each connection made to the database, where *[Number]* is a number that identifies each log file. This file logs connector activity that is specific to the connection.

To disable connector logging in Windows:

1. Open the ODBC Data Source Administrator where you created the DSN, then select the DSN, then click **Configure**, and then click **Logging Options**.
2. From the **Log Level** drop-down list, select **LOG_OFF**.
3. Click **OK**.
4. Restart your ODBC application to make sure that the new settings take effect.

Configuring Logging for the Current Connection

You can configure logging for the current connection by setting the logging configuration properties in the DSN or in a connection string. For information about the logging configuration properties, see [Configuring Logging Options in Windows](#). Settings in the connection string take precedence over settings in the DSN, and settings in the DSN take precedence over connector-wide settings.




Note: If the LogLevel configuration property is passed in via the connection string or DSN, the rest of the logging configurations are read from the connection string or DSN and not from the existing connector-wide logging configuration.

To configure logging properties in the DSN, you must modify the Windows registry. For information about the Windows registry, see the Microsoft Windows documentation.



Important: Editing the Windows Registry incorrectly can potentially cause serious, system-wide problems that may require re-installing Windows to correct.

To add logging configurations to a DSN in Windows:


1. Choose one:
 - If you are using Windows 7 or earlier, click **Start** , then type **regedit** in the **Search** field, and then click **regedit.exe** in the search results.
 - Or, if you are using Windows 8 or later, on the Start screen, type **regedit**, and then click the **regedit** search result.
2. Navigate to the appropriate registry key for the bitness of your connector and your machine:
 - 32-bit System DSNs: **HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\ODBC\ODBC.INI***[DSN Name]*
 - 64-bit System DSNs: **HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBC.INI***[DSN Name]*
 - 32-bit and 64-bit User DSNs: **HKEY_CURRENT_USER\SOFTWARE\ODBC\ODBC.INI***[DSN Name]*
3. For each configuration option that you want to configure for the current connection, create a value by doing the following:
 - a. If the key name value does not already exist, create it. Right-click the *[DSN Name]* and then select **New > String Value**, type the key name of the configuration option, and then press **Enter**.
 - b. Right-click the key name and then click **Modify**.
To confirm the key names for each configuration option, .
 - c. In the Edit String dialog box, in the **Value Data** field, type the value for the configuration option.
4. Close the Registry Editor.
5. Restart your ODBC application to make sure that the new settings take effect.

Verifying the Connector Version Number in Windows

If you need to verify the version of the Simba Presto ODBC Connector that is installed on your Windows machine, you can find the version number in the ODBC Data Source Administrator.

To verify the connector version number in Windows:

1. From the Start menu, go to **ODBC Data Sources**.

 **Note:** Make sure to select the ODBC Data Source Administrator that has the same bitness as the client application that you are using to connect to Presto.

2. Click the **Drivers** tab and then find the Simba Presto ODBC Connector in the list of ODBC Connectors that are installed on your system. The version number is displayed in the **Version** column.

macOS Connector

This section provides an overview of the Connector in the macOS platform, outlining the required system specifications and the steps for installing and configuring the connector in macOS environments.

macOS System Requirements

Install the connector on client machines where the application is installed. Each client machine that you install the connector on must meet the following minimum system requirements:

- 150MB of available disk space
- One of the following ODBC driver managers installed:
 - iODBC 3.52.9 or later
 - unixODBC 2.3.6 or later

Installing the Connector in macOS

If you did not obtain this connector from the Simba website, you might need to follow a different installation procedure. For more information, see the *Simba OEM ODBC Connectors Installation Guide*.

The Simba Presto ODBC Connector is available for macOS as a .dmg file named `SimbaPrestoODBC.dmg`. The connector supports both 32- and 64-bit client applications.

To install the Simba Presto ODBC Connector in macOS:

1. Double-click **SimbaPrestoODBC.dmg** to mount the disk image.
2. Double-click **Simba Presto ODBC.pkg** to run the installer.
3. In the installer, click **Continue**.
4. On the Software License Agreement screen, click **Continue**, and when the prompt appears, click **Agree** if you agree to the terms of the License Agreement.
5. Optionally, to change the installation location, click **Change Install Location**, then select the desired location, and then click **Continue**.



Note: By default, the connector files are installed in the `/Library/simba/prestoodbc` directory.

6. To accept the installation location and begin the installation, click **Install**.
7. When the installation completes, click **Close**.
8. If you received a license file through email, then copy the license file into the `/lib` subfolder in the connector installation directory. You must have root privileges when changing the contents of this folder.

For example, if you installed the connector to the default location, you would copy the license file into the `/Library/simba/prestodbc/lib` folder.

Next, configure the environment variables on your machine to make sure that the ODBC Driver manager can work with the connector. For more information, see [Configuring the ODBC Driver Manager in Non-Windows Machines](#)

Configuring FIPS in mac OS

You can configure the FIPS (Federal Information Processing Standards) module to ensure the security, quality, and processing compatibility of various services.

Note: To enable FIPS support, a separate FIPS downloadable package is available for assistance.

To configure FIPS in mac OS:

1. Unzip the `OpenSSL_3.0_Modules_OSX_ARM_xcode13_2.tar.gz` package released with the connector.
2. Follow the instructions mentioned in the **README.md** file.

Note: Ensure that all the FIPS module binary files are present in the `OPENSSL_MODULES` path, otherwise the connector does not work as expected.

Verifying the Connector Version Number in macOS

If you need to verify the version of the Simba Presto ODBC Connector that is installed on your macOS machine, you can query the version number through the Terminal.

To verify the connector version number in macOS:

- At the Terminal, run the command:

```
pkgutil --info com.simba.prestodbc
```

The command returns information about the Simba Presto ODBC Connector that is installed on your machine, including the version number.

Uninstalling the Connector in macOS

You can uninstall the Simba Presto ODBC Connector in macOS by deleting the added files and folders from the Library.

To uninstall the Simba Presto ODBC Connector in macOS:

1. In the Finder, navigate to the location where the connector was installed.



Note: By default, the driver files are installed in the `/Library/simba/prestodb` directory.

2. Move all files and folders in this location to the Trash.

Linux Connector

This section provides an overview of the Connector in the Linux platform, outlining the required system specifications and the steps for installing and configuring the connector in Linux environments.

For most Linux distributions, you can install the connector using the RPM file. If you are installing the connector on a Debian machine, you must use the Debian package.

Linux System Requirements

Install the connector on client machines where the application is installed. Each client machine that you install the connector on must meet the following minimum system requirements:

- 90MB of available disk space
- One of the following ODBC driver managers installed:
 - iODBC 3.52.9 or later
 - unixODBC 2.2.14 or later
- The `krb5-libs` library that matches the bitness of the connector must be installed.



Note: If the package manager in your Linux distribution cannot resolve the dependency automatically when installing the connector, then download and manually install the package.

To install the connector, you must have root access on the machine.

Installing the Connector Using the RPM File

If you did not obtain this connector from the Simba website, you might need to follow a different installation procedure. For more information, see the *Simba OEM ODBC Connectors Installation Guide*.

On 64-bit editions of Linux, you can execute both 32- and 64-bit applications. However, 64-bit applications must use 64-bit connectors, and 32-bit applications must use 32-bit connectors. Make sure that you use a connector whose bitness matches the bitness of the client application:

- `simbaprestoODBC-32bit-[Version]-[Release].i686.rpm` for the 32-bit connector
- `simbaprestoODBC-[Version]-[Release].x86_64.rpm` for the 64-bit connector

The placeholders in the file names are defined as follows:

- `[Version]` is the version number of the connector.
- `[Release]` is the release number for this version of the connector.

You can install both the 32-bit and 64-bit versions of the connector on the same machine.



Note: For Linux ARM, only the 64-bit version of the connector is supported.

To install the Simba Presto ODBC Connector using the RPM File:

1. Log in as the root user.
2. Navigate to the folder containing the RPM package for the connector.
3. Depending on the Linux distribution that you are using, run one of the following commands from the command line, where *[RPMFileName]* is the file name of the RPM package:

- If you are using Red Hat Enterprise Linux or CentOS, run the following command:

```
yum --nogpgcheck localinstall [RPMFileName]
```

- Or, if you are using SUSE Linux Enterprise Server, run the following command:

```
zypper install [RPMFileName]
```

- Or, if you are using Linux ARM Server, navigate to the `Linux_ARM` folder containing the RPM and run the following command:

```
Linux_ARM/zypper install [RPMFileName]
```

- Or, if you are using Debian or Ubuntu, run the following command:

```
alien -i [RPMFileName]
```



Note: If the package manager in your Linux distribution cannot resolve the `krb5-libs` dependency automatically when installing the connector, then download and manually install the package.

4. If you received a license file through email, then copy the license file into the `/opt/simba/prestodbc/lib/32` or `/opt/simba/prestodbc/lib/64` folder, depending on the version of the connector that you installed.

Next, configure the environment variables on your machine to make sure that the ODBC Driver manager can work with the connector. For more information, see [Configuring the ODBC Driver Manager in Non-Windows Machines](#)

To install the Simba Presto ODBC Connector using the RPM File (Linux ARM):

1. Log in as the root user.
2. Double-click `prestodbc_[Version]-[Release]_aarch64.rpm`.
3. Follow the instructions in the installer to complete the installation process. The Simba Presto ODBC Connector files are installed in the `/opt/simba/prestodbc` directory.

4. If you received a license file via email, then copy the license file into the `/opt/simba/prestodb/64` folder. You must have root privileges when changing the contents of this folder.

Installing the Connector on Debian

To install the connector on a Debian machine, use the Debian package instead of the RPM file.

On 64-bit editions of Debian(Non-ARM machine), you can execute both 32- and 64-bit applications. In this case, 64-bit applications must use 64-bit connectors, and 32-bit applications must use 32-bit connectors. Make sure that you use the version of the connector that matches the bitness of the client application:

- `simbapresto_[Version]-[Release]_i386.deb` for the 32-bit connector
- `simbapresto_[Version]-[Release]_amd64.deb` for the 64-bit connector

[Version] is the version number of the connector, and *[Release]* is the release number for this version of the connector.

You can install both versions of the connector on the same machine.

 **Note:** For Linux ARM, only the 64-bit version of the connector is supported.

To install the Simba Presto ODBC Connector on Debian:

1. Log in as the root user, and then navigate to the folder containing the Debian package for the connector.
2. Double-click `simbapresto_[Version]-[Release]_i386.deb` or `simbapresto_[Version]-[Release]_amd64.deb`.
3. Follow the instructions in the installer to complete the installation process.

The Simba Presto ODBC Connector files are installed in the `/opt/simba/prestodb` directory.

4. If you received a license file via email, then copy the license file into the `/opt/simba/prestodb/lib/32` or `/opt/simba/prestodb/lib/64` folder, depending on the version of the connector that you installed. You must have root privileges when changing the contents of this folder.

To install the Simba Presto ODBC Connector on Debian (Linux ARM):

1. Log in as the root user, and then navigate to the `Linux_ARM` folder containing the Debian package for the connector.
2. Double-click `simbaprestodb_[Version]-[Release]_amd64.deb`.
3. Follow the instructions in the installer to complete the installation process. The Simba Presto ODBC Connector files are installed in the `/opt/simbaprestodb` directory.
4. If you received a license file via email, then copy the license file into the `/opt/simba/prestodb/64` folder. You must have root privileges when changing the contents of this folder.

Next, configure the environment variables on your machine to make sure that the ODBC driver manager can work with the connector. For more information, see [Configuring the ODBC Driver Manager in Non-Windows Machines](#).

Configuring FIPS in Linux

You can configure the FIPS (Federal Information Processing Standards) module to ensure the security, quality, and processing compatibility of various services.

Note: To enable FIPS support, a separate FIPS downloadable package is available for assistance.

To configure FIPS in Linux:

1. Unzip the `OpenSSL_3.0_Modules_Linux_gcc5_5.tar.gz` Linux package released with the connector.
2. Follow the instructions mentioned in the **README.md** file.

Note: Make sure that all the FIPS module binary files are present in the `OPENSSL_MODULES` path, otherwise the connector does not work as expected.

To configure FIPS in Linux ARM:

1. Unzip the `OpenSSL_3.0_Modules_Linux_gcc8_3__aarch64.tar` Linux package inside the `LINUX_ARM` folder released with the connector.
2. Follow the instructions mentioned in the **README.md** file.

Note: Make sure that all the FIPS module binary files are present in the `OPENSSL_MODULES` path, otherwise the connector does not work as expected.

Verifying the Connector Version Number in Linux

If you need to verify the version of the Simba Presto ODBC Connector that is installed on your Linux machine, you can query the version number through the command-line interface if the connector was installed using an RPM file. Alternatively, you can search the connector's binary file for version number information.

To verify the connector version number in Linux using the command-line interface:

- Depending on your package manager, at the command prompt, run one of the following commands:
 - `yum list | grep SimbaPrestoODBC`
 - `rpm -qa | grep SimbaPrestoODBC`

The command returns information about the Simba Presto ODBC Connector that is installed on your machine, including the version number.

To verify the connector version number in Linux using the binary file:

1. Navigate to the `/lib` subfolder in your connector installation directory. By default, the path to this directory is: `/opt/simba/prestodb/lib`.
2. Open the connector's `.so` binary file in a text editor, and search for the text `$driver_version_sb$`. The connector's version number is listed after this text.

Configuring the ODBC Driver Manager in Non-Windows Machines

To make sure that the ODBC Driver manager on your machine is configured to work with the Simba Presto ODBC Connector, do the following:

- Set the library path environment variable to make sure that your machine uses the correct ODBC Driver manager. For more information, see [Specifying ODBC Driver Managers in Non-Windows Machines](#).
- If the connector configuration files are not stored in the default locations expected by the ODBC driver manager, then set environment variables to make sure that the Driver manager locates and uses those files. For more information, see [Specifying the Locations of the Connector Configuration Files](#).

After configuring the ODBC Driver manager, you can configure a connection and access your data store through the connector.

Specifying ODBC Driver Managers in Non-Windows Machines

You need to make sure that your machine uses the correct ODBC Driver manager to load the connector. To do this, set the library path environment variable.

macOS

If you are using a macOS machine, then set the `DYLD_LIBRARY_PATH` environment variable to include the paths to the ODBC driver manager libraries. For example, if the libraries are installed in `/usr/local/lib`, then run the following command to set `DYLD_LIBRARY_PATH` for the current user session:

```
export DYLD_LIBRARY_PATH=$DYLD_LIBRARY_PATH:/usr/local/lib
```

For information about setting an environment variable permanently, refer to the macOS shell documentation.

Linux

If you are using a Linux machine, then set the `LD_LIBRARY_PATH` environment variable to include the paths to the ODBC driver manager libraries. For example, if the libraries are installed in `/usr/local/lib`, then run the following command to set `LD_LIBRARY_PATH` for the current user session:

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/local/lib
```

For information about setting an environment variable permanently, refer to the Linux shell documentation.

Specifying the Locations of the Connector Configuration Files

By default, ODBC Driver managers are configured to use hidden versions of the `odbc.ini` and `odbcinst.ini` configuration files (named `.odbc.ini` and `.odbcinst.ini`) located in the home directory, as well as the `simba.prestoodbc.ini` file in the `lib` subfolder of the connector installation directory. If you store these configuration files elsewhere, then you must set the environment variables described below so that the driver manager can locate the files.

If you are using iODBC, do the following:

- Set ODBCINI to the full path and file name of the `odbc.ini` file.
- Set ODBCINSTINI to the full path and file name of the `odbcinst.ini` file.
- Set SIMBAPRESTOINI to the full path and file name of the `simba.prestoodbc.ini` file.

If you are using unixODBC, do the following:

- Set ODBCINI to the full path and file name of the `odbc.ini` file.
- Set ODBCSYSINI to the full path of the directory that contains the `odbcinst.ini` file.
- Set SIMBAPRESTOINI to the full path and file name of the `simba.prestoodbc.ini` file.

For example, if your `odbc.ini` and `odbcinst.ini` files are located in `/usr/local/odbc` and your `simba.prestoodbc.ini` file is located in `/etc`, then set the environment variables as follows:

For iODBC:

```
export ODBCINI=/usr/local/odbc/odbc.ini
export ODBCINSTINI=/usr/local/odbc/odbcinst.ini
export SIMBAPRESTOINI=/etc/simba.prestoodbc.ini
```

For unixODBC:

```
export ODBCINI=/usr/local/odbc/odbc.ini
export ODBCSYSINI=/usr/local/odbc
export SIMBAPRESTOINI=/etc/simba.prestoodbc.ini
```

To locate the `simba.prestoodbc.ini` file, the connector uses the following search order:

1. If the SIMBAPRESTOINI environment variable is defined, then the connector searches for the file specified by the environment variable.
2. The connector searches the directory that contains the connector library files for a file named `simba.prestoodbc.ini`.
3. The connector searches the current working directory of the application for a file named `simba.prestoodbc.ini`.

4. The connector searches the home directory for a hidden file named `simba.prestoodbc.ini` (prefixed with a period).
5. The connector searches the `/etc` directory for a file named `simba.prestoodbc.ini`.

Configuring ODBC Connections in Non-Windows Machine

The following sections describe how to configure ODBC connections when using the Simba Presto ODBC Connector on non-Windows platforms:

- [Creating a Data Source Name in a Non-Windows Machine](#)
- [Configuring a DSN-less Connection in a Non-Windows Machine](#)
- [Configuring SSL Verification in a Non-Windows Machine](#)
- [Configuring Logging Options in a Non-Windows Machine](#)
- [Testing the Connection in Non-Windows Machine](#)

Creating a Data Source Name in a Non-Windows Machine

When connecting to your data store using a DSN, you only need to configure the `odbc.ini` file. Set the properties in the `odbc.ini` file to create a DSN that specifies the connection information for your data store. For information about configuring a DSN-less connection instead, see [Configuring a DSN-less Connection in a Non-Windows Machine](#).

If your machine is already configured to use an existing `odbc.ini` file, then update that file by adding the settings described below. Otherwise, copy the `odbc.ini` file from the `Setup` subfolder in the connector installation directory to the home directory, and then update the file as described below.

To create a Data Source Name on a non-Windows machine:

1. In a text editor, open the `odbc.ini` configuration file.



Note: If you are using a hidden copy of the `odbc.ini` file, you can remove the period (.) from the start of the file name to make the file visible while you are editing it.

2. In the `[ODBC Data Sources]` section, add a new entry by typing a name for the DSN, an equal sign (=), and then the name of the connector.

For example, on a macOS machine:

```
[ODBC Data Sources]
```

```
Sample DSN=Simba Presto ODBC Connector
```

As another example, for a 32-bit connector on a Linux machine:

```
[ODBC Data Sources]
```

```
Sample DSN=Simba Presto ODBC Connector 32-bit
```

3. Create a section that has the same name as your DSN, and then specify configuration options as key-value pairs in the section:

- a. Set the `Driver` property to the full path of the connector library file that matches the bitness of the application.

For example, on a macOS machine:

`Driver=/Library/simba/prestodbc/lib/libprestodbc_sbu.dylib`

As another example, for a 32-bit connector on a Linux machine:

`Driver=/opt/simba/prestodbc/lib/32/libprestodbc_sb32.so`

- b. Set the `Host` property to the IP address or host name of the server, and then set the `Port` property to the number of the TCP port that the server uses to listen for client connections.

For example:

`Host=192.168.222.160`

`Port=8080`

- c. If authentication is required to access the server, then specify the authentication mechanism and your credentials. For more information, see [Configuring Authentication in a Non-Windows Machine](#).
- d. Optionally, set additional key-value pairs as needed to specify other optional connection settings. For detailed information about all the configuration options supported by the Simba Presto ODBC Connector, see [Connector Configuration Options](#).

4. Save the `odbc.ini` configuration file.



Note: If you are storing this file in its default location in the home directory, then prefix the file name with a period (`.`) so that the file becomes hidden. If you are storing this file in another location, then save it as a non-hidden file (without the prefix), and make sure that the `ODBCINI` environment variable specifies the location. For more information, see [Specifying the Locations of the Connector Configuration Files](#).

For example, the following is an `odbc.ini` configuration file for macOS containing a DSN that connects to Presto using a user account:

[ODBC Data Sources]

Sample DSN=Simba Presto ODBC Connector

[Sample DSN]

`Driver=/Library/simba/prestodbc/lib/libprestodbc_sbu.dylib`

`Host=192.168.222.160`

`Port=8080`

As another example, the following is an `odbc.ini` configuration file for a 32-bit connector on a Linux machine, containing a DSN that connects to Presto using a user account:

[ODBC Data Sources]

Sample DSN=Simba Presto ODBC Connector 32-bit

[Sample DSN]

Driver=/opt/simba/prestodbc/lib/32/libprestodbc_sb32.so

Host=192.168.222.160

Port=8080

You can now use the DSN in an application to connect to the data store.

Configuring a DSN-less Connection in a Non-Windows Machine

To connect to your data store through a DSN-less connection, you need to define the connector in the `odbcinst.ini` file and then provide a DSN-less connection string in your application.

If your machine is already configured to use an existing `odbcinst.ini` file, then update that file by adding the settings described below. Otherwise, copy the `odbcinst.ini` file from the `Setup` subfolder in the connector installation directory to the home directory, and then update the file as described below.

To define a connector on a non-Windows machine:

1. In a text editor, open the `odbcinst.ini` configuration file.



Note: If you are using a hidden copy of the `odbcinst.ini` file, you can remove the period (.) from the start of the file name to make the file visible while you are editing it.

2. In the `[ODBC Drivers]` section, add a new entry by typing a name for the connector, an equal sign (=), and then `Installed`.

For example:

`[ODBC Drivers]`

`Simba Presto ODBC Connector=Installed`

3. Create a section that has the same name as the connector (as specified in the previous step), and then specify the following configuration options as key-value pairs in the section:
 - a. Set the `Driver` property to the full path of the connector library file that matches the bitness of the application.

For example, on a macOS machine:

`Driver=/Library/simba/prestodbc/lib/libprestodbc_sbu.dylib`

As another example, for a 32-bit connector on a Linux machine:

`Driver=/opt/simba/prestodbc/lib/32/libprestodbc_sb32.so`

- b. Optionally, set the `Description` property to a description of the connector.

For example:

`Description=Simba Presto ODBC Connector`

4. Save the `odbcinst.ini` configuration file.



Note: If you are storing this file in its default location in the home directory, then prefix the file name with a period (`.`) so that the file becomes hidden. If you are storing this file in another location, then save it as a non-hidden file (without the prefix), and make sure that the `ODBCINSTINI` or `ODBCSYSINI` environment variable specifies the location. For more information, see [Specifying the Locations of the Connector Configuration Files](#).

For example, the following is an `odbcinst.ini` configuration file for macOS:

```
[ODBC Drivers]
```

```
Simba Presto ODBC Connector=Installed
```

```
[Simba Presto ODBC Connector]
```

```
Description=Simba Presto ODBC Connector
```

```
Driver=/Library/simba/prestodbc/lib/libprestodbc_sbu.dylib
```

As another example, the following is an `odbcinst.ini` configuration file for both the 32- and 64-bit connectors in Linux:

```
[ODBC Drivers]
```

```
Simba Presto ODBC Connector 32-bit=Installed
```

```
Simba Presto ODBC Connector 64-bit=Installed
```

```
[Simba Presto ODBC Connector 32-bit]
```

```
Description=Simba Presto ODBC Connector (32-bit)
```

```
Driver=/opt/simba/prestodbc/lib/32/libprestodbc_sb32.so
```

```
[Simba Presto ODBC Connector 64-bit]
```

```
Description=Simba Presto ODBC Connector (64-bit)
```

```
Driver=/opt/simba/prestodbc/lib/64/libprestodbc_sb64.so
```

You can now connect to your data store by providing your application with a connection string where the `Driver` property is set to the connector name specified in the `odbcinst.ini` file, and all the other necessary connection properties are also set. For more information, see "DSN-less Connection String Examples" in [Using a Connection String](#)

Configuring Authentication in a Non-Windows Machine

Some Presto data stores require authentication. You can configure the Simba Presto ODBC Connector to provide your credentials and authenticate the connection to the database using one of the following methods:

- [Configuring Kerberos Authentication in a Non-Windows Machine](#)
- [Configuring LDAP Authentication in a Non-Windows Machine](#)

Note: If Kerberos or LDAP authentication is enabled, then SSL is automatically enabled.

Configuring Kerberos Authentication in a Non-Windows Machine

You can configure the connector to use the Kerberos protocol to authenticate the connection. You can set the connection properties in a connection string or in a DSN (in the `odbc.ini` file). Settings in the connection string take precedence over settings in the DSN.

Kerberos must be installed and configured before you can use this authentication mechanism. For information about how to install and configure Kerberos, see the MIT Kerberos Documentation:

<http://web.mit.edu/kerberos/krb5-latest/doc/>.

When you configure your Kerberos server, in the `/etc/presto/config.properties` file, set the following properties:

- `http.server.authentication.krb5.service-name=HTTP`
- `http.server.authentication.krb5.keytab=HTTP.keytab`

When you use Kerberos authentication, the connector loads the credentials from the Kerberos credential cache. Therefore, a Kerberos ticket must be generated before you run the connector. To generate a Kerberos ticket, run the `kinit` Kerberos command with the appropriate principal.

Additionally, when using Kerberos authentication:

- The connector sends the Kerberos default user principal name as the user name.
- When the Kerberos ticket is generated, the default user principal name is retrieved from the Kerberos credential cache.
- Or, if you would like to manually send a user name, pass it via the `UID` connection parameter in the connection string.

Note: If Kerberos authentication is enabled, then SSL is automatically enabled.

To configure the connector to use Kerberos authentication on a non-Windows machine:

1. Run the `kinit` command, using the following syntax, where `[Principal]` is the Kerberos user principal to use for authentication:
`kinit -k [Principal]`
2. In your `odbc.ini` configuration file or connection string, set the `AuthenticationType` property to `Kerberos Authentication`.
3. Optionally, to generate a ticket using a Kerberos user name and password:
 - a. Set the `UseExistingKrbCreds` property to `1` use the existing Kerberos Credentials, or to `0` to generate new credentials.
 - b. Set the `KinitType` property to `Kinit with Password`.

- c. Optionally, to forward the generated Kerberos credentials, set the `DelegateKrbCreds` property to 1.
 - d. Set the `KerberosUsername` property to your Kerberos user name.
 - e. Set the `KerberosPassword` property to your Kerberos password.
4. Optionally, to generate a ticket using a Kerberos user name and a keytab file:
 - a. Set the `UseExistingKrbCreds` property to 1 use the existing Kerberos Credentials, or to 0 to generate new credentials.
 - b. Set the `KinitType` property to `Kinit with Keytab`.
 - c. Optionally, to forward the generated Kerberos credentials, set the `DelegateKrbCreds` property to 1.
 - d. Set the `KerberosUsername` property to your Kerberos user name.
 - e. Set the `KerberosKeytab` property to the full path of the keytab file.
5. Optionally, to use a service name other than the default of HTTP, set the `KrbServiceName` property to the service name of the Prestoserver.
6. Configure the SSL settings as described in [Configuring SSL Verification in a Non-Windows Machine](#).

You can now use the connector to authenticate through Kerberos and connect to your Prestoserver.

Configuring LDAP Authentication in a Non-Windows Machine

You can configure the connector to use the LDAP protocol to authenticate the connection. You can set the connection properties in a connection string or in a DSN (in the `odbc.ini` file). Settings in the connection string take precedence over settings in the DSN.

Note: If LDAP authentication is enabled, then SSL is automatically enabled.

To configure LDAP authentication on a non-Windows machine:

1. Set the `AuthenticationType` property to `LDAP Authentication`.
2. Set the `UID` property to an appropriate user name for accessing the data store.
3. Set the `PWD` property to the password corresponding to the user name that you specified above.
4. Configure the SSL settings as described in [Configuring SSL Verification in a Non-Windows Machine](#).

You can now use the connector to authenticate through LDAP and connect to your Prestoserver.

Configuring SSL Verification in a Non-Windows Machine

If you are connecting to a Presto server that has Secure Sockets Layer (SSL) enabled, you can configure the connector to connect to an SSL-enabled socket. When using SSL to connect to a server, the connector can be configured to verify the identity of the server.



Note: If either Kerberos or LDAP authentication are enabled, the connector automatically uses SSL to communicate with the Prestoserver.

You can set the connection properties described below in a connection string or in a DSN (in the `odbc.ini` file). Settings in the connection string take precedence over settings in the DSN.

To configure SSL verification on a non-Windows machine:

1. To enable SSL connections, set the `SSL` attribute to 1.
2. To allow authentication using self-signed certificates that have not been added to the list of trusted certificates, set the `AllowSelfSignedServerCert` attribute to 1.
3. To allow the common name of a CA-issued SSL certificate to not match the host name of the Presto server, set the `AllowHostNameCNMismatch` attribute to 1.
4. Choose one:
 - To configure the connector to load SSL certificates from a specific `.pem` file when verifying the server, set the `TrustedCerts` attribute to the full path of the `.pem` file.
 - Or, to use the trusted CA certificates `.pem` file that is installed with the connector, do not specify a value for the `TrustedCerts` attribute.
5. To configure two-way SSL verification, set the `TwoWaySSL` attribute to 1 and then do the following:
 - a. Set the `ClientCert` attribute to the full path of the `.pem` file containing the client's certificate.
 - b. Set the `ClientPrivateKey` attribute to the full path of the file containing the client's private key.
 - c. If the private key file is protected with a password, set the `ClientPrivateKeyPassword` attribute to the password.
6. To allow authentication, when the certificate's revocation status is undetermined, set the `Accept Undetermined Revocation` attribute to 1.
7. To specify the minimum version of TLS to use, set the `Min_TLS` property to the minimum version of TLS. Supported options include 1.0 for TLS 1.0, 1.1 for TLS 1.1, 1.2 for TLS 1.2, and 1.3 for TLS 1.3.

Configuring Logging Options in a Non-Windows Machine

To help troubleshoot issues, you can enable logging in the connector.



Important: Only enable logging long enough to capture an issue. Logging decreases performance and can consume a large quantity of disk space.

You can set the connection properties described below in a connection string, in a DSN (in the `odbc.ini` file), or as a connector-wide setting (in the `simba.prestoodbc.ini` file). Settings in the connection string take precedence over settings in the DSN, and settings in the DSN take precedence over connector-wide settings.

To enable logging on a non-Windows machine:

1. To specify the level of information to include in log files, set the `LogLevel` property to one of the following numbers:

LogLevel Value	Description
0	Disables all logging.
1	Logs severe error events that lead the connector to abort.
2	Logs error events that might allow the connector to continue running.
3	Logs events that might result in an error if action is not taken.
4	Logs general information that describes the progress of the connector.
5	Logs detailed information that is useful for debugging the connector.
6	Logs all connector activity.

2. Set the `LogPath` key to the full path to the folder where you want to save log files.
3. Set the `LogFileCount` key to the maximum number of log files to keep.

Note: After the maximum number of log files is reached, each time an additional file is created, the connector deletes the oldest log file.

4. Set the `LogFileSize` key to the maximum size of each log file in bytes.

Note: After the maximum file size is reached, the connector creates a new file and continues logging.

5. Save the `simba.prestoodbc.ini` configuration file.
6. Restart your ODBC application to make sure that the new settings take effect.

The Simba Presto ODBC Connector produces the following log files at the location you specify using the `LogPath` key:

- A `simbaprestoodbcdriver.log` file that logs connector activity that is not specific to a connection.
- A `simbaprestoodbcdriver_connection_[Number].log` file for each connection made to the database, where `[Number]` is a number that identifies each log file. This file logs connector activity that is specific to the connection.

To disable logging on a non-Windows machine:

1. Set the `LogLevel` key to 0.
2. Save the `simba.prestoodbc.ini` configuration file.
3. Restart your ODBC application to make sure that the new settings take effect.

Testing the Connection in Non-Windows Machine

To test the connection, you can use an ODBC-enabled client application. For a basic connection test, you can also use the test utilities that are packaged with your driver manager installation. For example,

the iODBC driver manager includes simple utilities called `iodbctest` and `iodbctestw`. Similarly, the unixODBC driver manager includes simple utilities called `isql` and `iusql`.

Using the iODBC Driver Manager

You can use the `iodbctest` and `iodbctestw` utilities to establish a test connection with your connector. Use `iodbctest` to test how your connector works with an ANSI application, or use `iodbctestw` to test how your connector works with a Unicode application.

Note: There are 32-bit and 64-bit installations of the iODBC driver manager available. If you have only one or the other installed, then the appropriate version of `iodbctest` (or `iodbctestw`) is available. However, if you have both 32- and 64-bit versions installed, then you need to make sure that you are running the version from the correct installation directory.

For more information about using the iODBC driver manager, see <http://www.iodbc.org>.

To test your connection using the iODBC driver manager:

1. Run `iodbctest` or `iodbctestw`.
2. Optionally, if you do not remember the DSN, then type a question mark (?) to see a list of available DSNs.
3. Type the connection string for connecting to your data store, and then press ENTER. For more information, see [Using a Connection String](#).

If the connection is successful, then the `SQL>` prompt appears.

Using the unixODBC Driver Manager

You can use the `isql` and `iusql` utilities to establish a test connection with your connector and your DSN. `isql` and `iusql` can only be used to test connections that use a DSN. Use `isql` to test how your connector works with an ANSI application, or use `iusql` to test how your connector works with a Unicode application.

Note: There are 32-bit and 64-bit installations of the unixODBC driver manager available. If you have only one or the other installed, then the appropriate version of `isql` (or `iusql`) is available. However, if you have both 32- and 64-bit versions installed, then you need to make sure that you are running the version from the correct installation directory.

For more information about using the unixODBC driver manager, see <http://www.unixodbc.org>.

To test your connection using the unixODBC driver manager:


- Run `isql` or `iusql` by using the corresponding syntax:

```
■ isql [DataSourceName]

■ iusql [DataSourceName]
```

`[DataSourceName]` is the DSN that you are using for the connection.

If the connection is successful, then the `SQL>` prompt appears.

 **Note:** For information about the available options, run `isql` or `iusql` without providing a DSN.

Using a Connection String

For some applications, you might need to use a connection string to connect to your data source. For detailed information about how to use a connection string in an ODBC application, refer to the documentation for the application that you are using.

The connection strings in the following sections are examples showing the minimum set of connection attributes that you must specify to successfully connect to the data source. Depending on the configuration of the data source and the type of connection you are working with, you might need to specify additional connection attributes. For detailed information about all the attributes that you can use in the connection string, see [Connector Configuration Options](#).

DSN Connection String Example

The following is an example of a connection string for a connection that uses a DSN:

`DSN=[DataSourceName]`

`[DataSourceName]` is the DSN that you are using for the connection.

You can set additional configuration options by appending key-value pairs to the connection string. Configuration options that are passed in using a connection string take precedence over configuration options that are set in the DSN.

DSN-less Connection String Examples

Some applications provide support for connecting to a data source using a connector without a DSN. To connect to a data source without using a DSN, use a connection string instead.

The placeholders in the examples are defined as follows, in alphabetical order:

- `[AuthType]` is the method that is used for authentication.
- `[PortNumber]` is the number of the port that the Prestoserver uses to listen for client connections.
- `[Server]` is the IP address or host name of the Prestoserver to which you are connecting.
- `[YourAccessToken]` is the access token that you use to access the Prestoserver.
- `[YourUserName]` is the user name that you use to access the Prestoserver.

The following is the format of a DSN-less connection string:

`Driver=Simba Presto ODBC Driver;`
`Host=[Server];Port=[PortNumber];AuthMech=[Auth_Type];`

For example:

`Driver=Simba Presto ODBC Driver;`
`Host=http://host%3Dorg.api.imply.io/;Port=443;AuthMech=0`

Connecting to Presto Using Basic Authentication

The following is the format of a DSN-less connection string for connecting to Presto using basic authentication:

```
Driver=SimbaPresto ODBC Driver;Host=[YourInstanceURL];Auth_Type=Basic;UID=[YourAPIKey]
```

For example:

```
Driver=SimbaPresto ODBC Driver;Host=https://api.stripe.com;Auth_Type=Basic;UID=sk_test_
cXg9KLwthuyyu980694
```

Connecting to Trino Using Basic Auth (API Key authentication)

You can connect to the Trino server by using API Key authentication. The following is the format of a DSN-less connection string for connecting to Trino using API Key authentication:

```
Driver= Simba Trino ODBC Driver;
```

```
Host=[Server];Port=[PortNumber];AuthMech=[Auth_Type];UID=[Your_API_Key];PWD=
[YourPassword]
```

For example:

```
Driver= Simba Trino ODBC Driver;
```

```
Host=http://host%3Dorg.api.imply.io;Port=443;AuthMech=0;UID=some_API_Key;
```

Features

For more information on the features of the Simba Presto ODBC Connector, see the following:

- [Catalog and Schema Support](#)
- [Parameters](#)
- [Resource Group](#)
- [Data Types](#)
- [Security and Authentication](#)

Catalog and Schema Support

The Simba Presto ODBC Connector supports both catalogs and schemas to make it easy for the connector to work with various ODBC applications.

Note: SQLTables and SQLColumns only work if a catalog has been specified by the user in the connection string or set as a connection attribute.

The Simba Presto ODBC Connector supports querying against Hive, MySQL, and PostgreSQL schemas.

Parameters

A parameterized query contains placeholders that are used for parameters. The values of those parameters are supplied at execution time.

The Simba Presto ODBC Connector fully supports parameterized queries. If Auto Populate Parameter Metadata is selected or the `AutoIPD` option is set to 1, the connector automatically populates the metadata for parameters.

Resource Group

Resource groups are a Presto feature that allows administrators to control resource usage and query scheduling.

To use this feature, define either of the following properties:

- Application Name (or `ApplicationName`)
- ClientTags (or `ClientTags`)
- Application Name Prefix (or `ApplicationNamePrefix`) if required.

If the Prestoserver has a resource group that selects for those values, then the queries are executed according to the policies defined for that resource group.

Data Types

The Simba Presto ODBC Connector supports many common SQL data types.

The table below lists the supported data types.

Supported SQL types	
ARRAY <i>i</i> Note: The connector casts this type to VARCHAR.	REAL <i>i</i> Note: Only supported in Presto 0.152t and later.
BIGINT	ROW <i>i</i> Note: The connector casts this type to VARCHAR.
BOOLEAN	SMALLINT
CHAR(x) <i>i</i> Note: WCHAR is used instead if the Use Unicode SQL Character Types configuration option (the UseUnicodeSqlCharacterTypes key) is enabled.	TIME
Supported SQL types <i>i</i> Note: For all VARCHAR types, WVARCHAR is used instead if the Use Unicode SQL Character Types configuration option (the UseUnicodeSqlCharacterTypes key) is enabled.	TIME(P)
DATE	TIME WITH TIME ZONE
VARCHAR	TIME(P) WITH TIME ZONE
DECIMAL	TIMESTAMP
DECIMAL	TIMESTAMP(P)
DOUBLE	TIMESTAMP WITH TIME ZONE
INTEGER	VARBINARY
INTERVAL DAY TO SECOND	VARCHAR (fixed length)

Supported SQL types	
INTERVAL YEAR TO MONTH	VARCHAR (variable length)
FLOAT Note: Deprecated in Presto 0.152t and later.	TINYINT
MAP Note: The connector casts this type to VARCHAR.	VARCHAR(x)

Security and Authentication

To protect data from unauthorized access, some Presto data stores require connections to be authenticated with both user credentials and the SSL protocol. The Simba Presto ODBC Connector provides full support for these authentication protocols.

Note: In this documentation, "SSL" refers to both TLS (Transport Layer Security) and SSL (Secure Sockets Layer). The connector supports TLS 1.0, 1.1, and 1.2. The SSL version used for the connection is the highest version that is supported by both the connector and the server.

The connector provides a mechanism that enables you to authenticate your connection using the Kerberos protocol or the LDAP protocol. For detailed configuration instructions, see [Configuring Authentication in Windows](#) or [Configuring Authentication in a Non-Windows Machine](#).

Additionally, the connector supports the following types of SSL connections:

- One-way authentication
- Two-way authentication

It is recommended that you enable SSL whenever you connect to a server that is configured to support it. SSL encryption protects data and credentials when they are transferred over the network, and provides stronger security than authentication alone. For detailed configuration instructions, see [Configuring SSL Verification in a Non-Windows Machine](#).

Connector Configuration Options

Connector Configuration Options lists the configuration options available in the Simba Presto ODBC Connector alphabetically by field or button label. Options having only key names, that is, not appearing in the user interface of the connector, are listed alphabetically by key name.

When creating or configuring a connection from a Windows computer, the fields and buttons are available in the Simba Presto ODBC Driver DSN Setup dialog box. When using a connection string or configuring a connection from a Linux or macOS computer, use the key names provided.

Configuration Options Appearing in the User Interface

The following configuration options are accessible via the Windows user interface for the Simba Presto ODBC Connector, or via the key name when using a connection string or configuring a connection from a Linux or macOS computer:

<ul style="list-style-type: none"> Allow Common Name Host Name Mismatch Allow Metadata From Multiple Catalogs Allow Self-Signed Server Certificate ApplicationName Application Name Prefix Authentication Type Auto Populate Parameter Metadata Catalog CheckCertificate Revocation Client Certificate File Client Private Key File Client Private Key Password ClientTags 	<ul style="list-style-type: none"> MaxCatalogNameLen Max Column Name Length Max Complex Type Column Length Max File Size Max Number Files Max Prepared Statement Length Max Schema Name Length Max Table Name Length Max Varchar Column Length Minimum TLS Password Port Proxy Host Proxy Password Proxy Port
---	--

<ul style="list-style-type: none"> ▪ Connection Test ▪ Delegate Kerberos Credentials ▪ Enable SSL ▪ Encrypt Password ▪ ExtraCredentials ▪ Host ▪ Kerberos Password ▪ Kerberos Username ▪ Keytab File Path ▪ Kinit Type ▪ Log Level ▪ Log Path 	<ul style="list-style-type: none"> ▪ Proxy Uid ▪ Schema ▪ Server Version ▪ Service Name ▪ Time Zone ID ▪ Trusted Certificates ▪ Two-Way SSL ▪ Use DSN Schema For Metadata ▪ Use Equal In Metadata Filters ▪ Use Existing Kerberos Credentials ▪ Use GSSAPI ▪ Use Proxy Server ▪ Use System Catalog For Metadata ▪ Use System Trust Store ▪ Use Unicode SQL Character Types ▪ User
---	---

When creating or configuring a connection from a Windows computer, the fields and buttons are available in the Presto ODBC Driver DSN Setup dialog box. When using a connection string or configuring a connection from a Linux or macOS computer, use the key names provided.

Allow Common Name Host Name Mismatch

This option specifies whether a CA-issued SSL certificate name must match the host name of the Presto server.



Note: The key for this option used to be `CAIssuedCertNamesMismatch`, and is still recognized by the connector under that key. If both keys are defined, `AllowHostNameCNMismatch` will take precedence.

This setting is applicable only when SSL is enabled.

- Enabled (1): The connector allows a CA-issued SSL certificate name to not match the host name of the Presto server.

- Disabled (0): The CA-issued SSL certificate name must match the host name of the Presto server.

Key Name	Default Value	Required
AllowHostNameCNMismatch	Clear (0)	No

Allow Metadata From Multiple Catalogs

This option specifies whether metadata is retrieved from all catalogs when the connector makes a call to SQLTables or SQLColumns.

- Enabled (1): The connector retrieves metadata from all catalogs when making calls to SQLTables or SQLColumns, as per the ODBC standard.
- Disabled (0): The connector only retrieves metadata from the specified catalog when making calls to SQLTables or SQLColumns.



Note:

- If this option is disabled, you must specify a catalog to make calls to SQLTables or SQLColumns. You can specify a catalog in the call to SQLTables or SQLColumns, or in the Catalog DSN setting (the `Catalog` connection property).
- Disabling this option may improve connector performance.

Key Name	Default Value	Required
AllowMetadataFromMultipleCatalogs	Enabled (1)	No

Allow Self-Signed Server Certificate

This option specifies whether the connector allows a connection to a Presto server that uses a self-signed certificate, even if this certificate is not in the list of trusted certificates. This list is contained in the Trusted Certificates file, or in the system Trust Store if the system Trust Store is used instead of a file.

- Enabled (1): The connector authenticates the Presto server even if the server is using a self-signed certificate that has not been added to the list of trusted certificates.
- Disabled (0): The connector does not allow self-signed certificates from the server unless they have already been added to the list of trusted certificates.



Note: This setting is applicable only when SSL is enabled.

Key Name	Default Value	Required
AllowSelfSignedServerCert	Clear (0)	No

ApplicationName

Set this property to an application flag that you want to apply to the queries sent by the connector. If the application flag has been specified in a Presto resource group, then the queries are run according to the policies defined in that resource group.

Key Name	Default Value	Required
ApplicationName	None	No

Application Name Prefix

Use this property to apply any required prefixes to the Application Name (or `ApplicationName`) property.

Key Name	Default Value	Required
ApplicationNamePrefix	None	No

Authentication Type

This option specifies the type of authentication that the connector uses.

Select from the following:

- **No Authentication:** The connector does not authenticate the connection.
- **Kerberos Authentication:** The connector uses Kerberos to authenticate the connection. For more information about Kerberos authentication in Windows, see the Windows Kerberos documentation: [https://msdn.microsoft.com/en-us/library/windows/desktop/aa378747\(v=vs.85\).aspx](https://msdn.microsoft.com/en-us/library/windows/desktop/aa378747(v=vs.85).aspx). For more information about Kerberos authentication in macOS or Linux, see the MIT Kerberos Documentation: <http://web.mit.edu/kerberos/krb5-latest/doc/>.
- **LDAP Authentication:** The connector uses LDAP to authenticate the connection.



Note: If either Kerberos Authentication or LDAP Authentication are specified, the connector automatically uses SSL to communicate with the Presto server.

Key Name	Default Value	Required
AuthenticationType	No Authentication	No

AutoCommit Always True

This option specifies whether the connector always auto-commits.

- Enabled (1): The connector ignores the SQL_ATTR_AUTOCOMMIT value and auto-commits.
- Disabled (0): The connector considers the SQL_ATTR_AUTOCOMMIT value.

Key Name	Default Value	Required
AutoCommit	Disabled (0)	No

Auto Populate Parameter Metadata

This option specifies whether the connector automatically populates the parameter metadata for parameterized SQL statements.

The Presto server does not necessarily provide parameter metadata for every parameter in a parameterized SQL statement. When the server does not provide parameter metadata, the connector defines the parameter data type as SQL_VARCHAR.

Automatically populating parameter metadata may cause certain ODBC applications to not function correctly. In that case, this option should be disabled.

- Enabled (1): The connector automatically populates the metadata for parameters.
- Disabled (0): The connector does not automatically populate the metadata for parameters.

Key Name	Default Value	Required
AutoIPD	Enabled (1)	No

Calling App Name

This option passes the specified application name through the connector to use the application specific functionality.

- **PowerPivot:** When using Power Pivot in Excel, this options allows you to retrieve the list of tables and view table data using the "Select from a list of tables and views to choose the data to import" option.

Key Name	Default Value	Required
CallingAppName	NULL	No

Catalog

The current catalog context for all requests against the server.

Key Name	Default Value	Required
Catalog	None	No

CheckCertificate Revocation

This option specifies whether the connector checks to see if a certificate has been revoked while retrieving a certificate chain from the Windows Trust Store.

This option is only applicable if you are using a CA certificate from the Windows Trust Store (see [Use System Trust Store](#)).

- Enabled (1): The connector checks for certificate revocation while retrieving a certificate chain from the Windows Trust Store.
- Disabled (0): The connector does not check for certificate revocation while retrieving a certificate chain from the Windows Trust Store.

Note: This option is disabled when the `AllowSelfSignedServerCert` property is set to 1. This option is only available in Windows.

Key Name	Default Value	Required
CheckCertRevocation	Clear (0)	No

Client Certificate File

The full path to the .pem file containing the client's SSL certificate.

Note: This setting is applicable only when two-way SSL is enabled.

Key Name	Default Value	Required
ClientCert	None	No

Client Private Key File

The full path to the .pem file containing the client's SSL private key.

Note: This setting is applicable only when two-way SSL is enabled.

Key Name	Default Value	Required
ClientPrivateKey	None	Yes, if two-way SSL verification is enabled.

Client Private Key Password

The password of the private key file that is specified in the Client Private Key File field (`ClientPrivateKey`).

Key Name	Default Value	Required
<code>ClientPrivateKeyPassword</code>	None	Yes, if two-way SSL verification is enabled and the client's private key file is protected with a password.

ClientTags

Set this property to a comma-separated list of resource group tags that you want to apply to the queries sent by the connector. If the tags have been specified in a Presto resource group, then the queries are run according to the policies defined in that resource group.

Key Name	Default Value	Required
<code>ClientTags</code>	None	No

Connection Test

This option specifies whether the connector should automatically attempt to test the connection by contacting the server while establishing the connection.

- Enabled (1): The connector automatically tests the connection while establishing the connection.
- Disabled (0): The connector does not automatically test the connection.



Note:

- Disabling this option may improve connector performance.
- If this option is disabled, you should specify the version of the Presto server in the `Server Version` or `ServerVersion` configuration option (see [Server Version](#)).

Key Name	Default Value	Required
<code>ConnectionTest</code>	Enabled (1)	No

Delegate Kerberos Credentials

This options specifies whether the connector forwards the generated Kerberos credentials.

- Enabled (1): The connector forwards the generated Kerberos credentials.
- Disabled (0): The connector does not forward the generated Kerberos credentials.

Key Name	Default Value	Required
DelegateKrbCreds	Disabled (0)	No

Enable SSL

This option specifies whether the client uses an SSL encrypted connection to communicate with the Presto server.

- Enabled (1): The client communicates with the Presto server using SSL.
- Disabled (0): SSL is disabled.

SSL is configured independently of authentication. When authentication and SSL are both enabled, the connector performs the specified authentication method over an SSL connection.

Note: If either Kerberos Authentication or LDAP Authentication are specified, the connector automatically uses SSL to communicate with the Presto server.

Key Name	Default Value	Required
SSL	Clear (0)	No

Encrypt Password

This option specifies how the connector encrypts the credentials that are saved in the DSN:

- **Current User Only:** The credentials are encrypted, and can only be used by the current Windows user.
- **All Users Of This Machine:** The credentials are encrypted, but can be used by any user on the current Windows machine.

Important: This option is available only when you configure a DSN using the Presto ODBC Driver DSN Setup dialog box in the Windows connector. When you connect to the data store using a connection string, the connector does not encrypt your credentials.

Key Name	Default Value	Required
N/A	All Users Of This Machine	No

ExtraCredentials

Set this property to a comma-separated list of key-value pairs that you want to pass to an external service.

For example, to set the key-value pairs `Hadoop=Presto` and `Driver=Presto`, you would set this property as follows:

`ExtraCredentials=Hadoop:Presto,Driver:Presto`

Key Name	Default Value	Required
ExtraCredentials	None	No

Host

The IP address or host name of the Presto server.

Key Name	Default Value	Required
Host	None	Yes

Kerberos Password

The Kerberos password used to generate tickets.

Key Name	Default Value	Required
KerberosPassword	None	Yes, if connecting using <code>kinit</code> with a Kerberos user name and password.

Kerberos Username

The Kerberos user name used to generate tickets.

Key Name	Default Value	Required
KerberosUsername	None	Yes, if connecting using <code>kinit</code> with a Kerberos user name and password or a keytab file.

Keytab File Path

The full path to the keytab file used to generate Kerberos tickets.

Key Name	Default Value	Required
KerberosKeytab	None	Yes, if connecting using <code>kinit</code> with a Kerberos user name and a

Key Name	Default Value	Required
		keytab file.

Kinit Type

This option specifies whether the connector generates Kerberos tickets using `kinit` with a password or a keytab file.

- **Kinit with Password** (`Kinit with Password`): The connector generates tickets using a Kerberos user name and password.
- **Kinit with Keytab** (`Kinit with Keytab`): The connector generate tickets using a Kerberos user name and a keytab file.

Key Name	Default Value	Required
<code>KinitType</code>	None	Yes, if connecting using <code>kinit</code> with a Kerberos user name and password or a keytab file.

Log Level

Use this property to enable or disable logging in the connector and to specify the amount of detail included in log files.



Important:

- Only enable logging long enough to capture an issue. Logging decreases performance and can consume a large quantity of disk space.
- When logging with connection strings and DSNs, this option only applies to per-connection logs.

Set the property to one of the following values:

- **OFF (0)**: Disable all logging.
- **FATAL (1)**: Logs severe error events that lead the connector to abort.
- **ERROR (2)**: Logs error events that might allow the connector to continue running.
- **WARNING (3)**: Logs events that might result in an error if action is not taken.
- **INFO (4)**: Logs general information that describes the progress of the connector.
- **DEBUG (5)**: Logs detailed information that is useful for debugging the connector.
- **TRACE (6)**: Logs all connector activity.

When logging is enabled, the connector produces the following log files at the location you specify in the Log Path (LogPath) property:

- A `simbaprestoodbcdriver.log` file that logs connector activity that is not specific to a connection.
- A `simbaprestoodbcdriver_connection_[Number].log` file for each connection made to the database, where *[Number]* is a number that identifies each log file. This file logs connector activity that is specific to the connection.

Key Name	Default Value	Required
LogLevel	OFF (0)	No

Log Path

The full path to the folder where the connector saves log files when logging is enabled.



Important: When logging with connection strings and DSNs, this option only applies to per-connection logs.

Key Name	Default Value	Required
LogPath	None	Yes, if logging is enabled.

MaxCatalogNameLen

This option specifies the maximum number of characters that the driver reports for `SQL_MAX_CATALOG_NAME_LEN`. This allows the applications to allocate a large enough buffer to retrieve the catalog name.

This option can be set to any integer from 0 to 65535, inclusive. To indicate that there is no maximum length or that the length is unknown, set this option to 0.

Key Name	Default Value	Required
MaxCatalogNameLen	0	No

Max Column Name Length

This option specifies the maximum number of characters that the driver reports for `SQL_MAX_COLUMN_NAME_LEN`. This allows the applications to allocate a large enough buffer to retrieve the column name.

This option can be set to any integer from 0 to 65535, inclusive. To indicate that there is no maximum length or that the length is unknown, set this option to 0.

Key Name	Default Value	Required
MaxColumnNameLen	0	No

Max Complex Type Column Length

The maximum data length for complex types that the connector casts to VARCHAR, that is, JSON, MAP, ROW, and ARRAY.

Key Name	Default Value	Required
MaxComplexTypeColumnLength	2048	No

Max File Size

The maximum size of each log file in bytes. After the maximum file size is reached, the connector creates a new file and continues logging.

If this property is set using the Windows UI, the entered value is converted from megabytes (MB) to bytes before being set.



Important: When logging with connection strings and DSNs, this option only applies to per-connection logs.

Key Name	Default Value	Required
LogFileSize	20971520	No

Max Number Files

The maximum number of log files to keep. After the maximum number of log files is reached, each time an additional file is created, the connector deletes the oldest log file.



Important: When logging with connection strings and DSNs, this option only applies to per-connection logs.

Key Name	Default Value	Required
LogFileCount	50	No

Max Schema Name Length

This option specifies the maximum number of characters that the driver reports for SQL_MAX_SCHEMA_NAME_LEN. This allows the applications to allocate a large enough buffer to retrieve the schema name.

This option can be set to any integer from 0 to 65535, inclusive. To indicate that there is no maximum length or that the length is unknown, set this option to 0.

Key Name	Default Value	Required
MaxSchemaNameLength	256	No

Max Table Name Length

This option specifies the maximum number of characters that the driver reports for SQL_MAX_TABLE_NAME_LEN. This allows the applications to allocate a large enough buffer to retrieve the table name.

This option can be set to any integer from 0 to 65535, inclusive. To indicate that there is no maximum length or that the length is unknown, set this option to 0.

Key Name	Default Value	Required
MaxTableNameLen	0	No

Max Varchar Column Length

The maximum number of characters that can be returned for VARCHAR column lengths.

Key Name	Default Value	Required
MaxDefaultVarCharLength	2048	No

Max Prepared Statement Length

This option specifies the maximum length of the prepared statement.

Key Name	Default Value	Required
MaxPreparedStatementLength	7000	No

Minimum TLS

The minimum version of TLS/SSL that the connector allows the data store to use for encrypting connections. For example, if TLS 1.1 is specified, TLS 1.0 cannot be used to encrypt connections.

- TLS 1.0 (1.0): The connection must use at least TLS 1.0.
- TLS 1.1 (1.1): The connection must use at least TLS 1.1.
- TLS 1.2 (1.2): The connection must use at least TLS 1.2.

Key Name	Default Value	Required
Min_TLS	TLS 1.3 (1.3)	No

Password

The password corresponding to the LDAP user name that you provided in the User field (the `UID` key).

Note: This option is only available when the Authentication Type is set to LDAP Authentication.

Key Name	Default Value	Required
PWD	None	No

Port

The number of the TCP port that the Presto server uses to listen for client connections.

Key Name	Default Value	Required
Port	8080	Yes

Proxy Host

The host name or IP address of a proxy server that you want to connect through.

Key Name	Default Value	Required
ProxyHost	None	Yes, if connecting through a proxy server.

Proxy Password

The password that you use to access the proxy server.

Key Name	Default Value	Required
ProxyPwd	None	Yes, if connecting to a proxy server that requires authentication.

Proxy Port

The number of the port that the proxy server uses to listen for client connections.

Key Name	Default Value	Required
ProxyPort	None	Yes, if connecting through a proxy server.

Proxy Uid

The user name that you use to access the proxy server.

Key Name	Default Value	Required
ProxyUid	None	Yes, if connecting to a proxy server that requires authentication.

Schema

The current schema context for all requests against the server.

Note: This option is only used when the `Catalog` option is specified and the value is not an empty string.

Key Name	Default Value	Required
Schema	None	No

Server Version

This option specifies the version of the Presto server that the connector connects to, for example, `0.148-t`. This value is used when the connector cannot automatically detect the server version.

Note: If `Connection Test` is cleared or `ConnectionTest` is set to 0, this option should be set to the version of the Presto server that is being used.

Key Name	Default Value	Required
ServerVersion	None	No

Service Name

The Kerberos service principal name of the Presto server.

Key Name	Default Value	Required
KrbServiceName	HTTP	No

Time Zone ID

This option specifies the local time zone that the connector uses. Valid values for this option are specified in the IANA Time Zone Database. For a complete list of time zones, see https://en.wikipedia.org/wiki/List_of_tz_database_time_zones.

Key Name	Default Value	Required
TimeZoneID	System time zone	No

Trusted Certificates

The full path of the `.pem` file containing trusted CA certificates, for verifying the server when using SSL.

If this option is not set, then the connector defaults to using the trusted CA certificates `.pem` file installed by the connector. To use the trusted CA certificates in the `.pem` file, set the `UseSystemTrustStore` property to `0` or clear the Use System Trust Store check box in the SSL Options dialog.

Note: This setting is applicable only when SSL is enabled.

Key Name	Default Value	Required
TrustedCerts	The <code>cacerts.pem</code> file in the <code>\lib</code> subfolder within the connector's installation directory. The exact file path varies depending on the version of the connector that is installed. For example, the path for the Windows connector is different from the path for the macOS connector.	No

Two-Way SSL

This option specifies whether two-way SSL is enabled.

- Enabled (`1`): The client and the Presto server verify each other using SSL. See also the connector configuration options [Client Certificate File](#) and [Client Private Key File](#).
- Disabled (`0`): The server does not verify the client. Depending on whether one-way SSL is enabled, the client might verify the server. For more information, see [Enable SSL](#).

Note: This option is applicable only when connecting to a Presto server that supports SSL. You must enable SSL before Two Way SSL can be configured. For more information, see [Enable SSL](#).

Key Name	Default Value	Required
TwoWaySSL	Clear (<code>0</code>)	No

Use DSN Schema For Metadata

When the schema is not specified, this option specifies whether the connector uses the schema name passed in the DSN for metadata queries. The schema passed takes precedence over the DSN schema.

- Enabled (`true`): The connector uses the schema name passed in the DSN for metadata queries.
- Disabled (`false`): The connector does not use the schema name passed in the DSN for metadata queries.

Key Name	Default Value	Required
UseDSNSchemaForMetadata	Clear (false)	No

Use Equal In Metadata Filters

This option specifies whether the connector uses an equal sign (=) or the `LIKE` keyword in metadata queries.

- Enabled (true): The connector uses an equal sign (=) in metadata queries.
- Disabled (false): The connector uses the `LIKE` keyword in metadata qu

Key Name	Default Value	Required
UseEqualInMetadataFilters	Clear (false)	No

Use Existing Kerberos Credentials

This option specifies whether the connector uses existing Kerberos credentials or generates new Kerberos credentials.

- Enabled (1): The connector uses the existing Kerberos credentials.
- Disabled (0): The connector generates and uses new Kerberos credentials based on the `KinitType` settings.

Key Name	Default Value	Required
UseExistingKrbCreds	Enabled (1)	Yes, if connecting using <code>kinit</code> with a Kerberos user name and password or a keytab file.

Use GSSAPI

This option indicates whether the connector should use MIT Kerberos. To use this option, the MIT Kerberos library must be installed on the client machine. This option is only available in Windows.

- Enabled (1): The connector uses the MIT Kerberos library for Kerberos authentication.
- Disabled (0): The connector uses the Windows native SSP interface for Kerberos authentication.

Note: This option is only available in Windows.

Key Name	Default Value	Required
UseGSSAPI	Clear (0)	No

Use Proxy Server

This option specifies whether the connector uses a proxy server to connect to the data store.

- Enabled (1): The connector connects to a proxy server based on the information provided in the Proxy Host, Proxy Port, Proxy Username, and Proxy Password fields or the `ProxyHost`, `ProxyPort`, `ProxyUID`, and `ProxyPWD` keys.
- Disabled (0): The connector connects directly to the Presto server.

Key Name	Default Value	Required
UseProxy	Clear (0)	No

Use System Catalog For Metadata

This option specifies whether the connector uses the System Catalog or Information_Schema API to run metadata queries.

- Enabled (1): The connector uses the System Catalog API to run metadata queries.
- Disabled (0): The connector uses the Information_Schema API to run metadata queries.

Key Name	Default Value	Required
UseSystemCatalogForMetadata	0	No

Use System Trust Store

This option specifies whether to use a CA certificate from the system trust store, or from a specified .pem file.

- Enabled (1): The connector verifies the connection using a certificate in the system trust store.
- Disabled (0): The connector verifies the connection using a specified .pem file. For information about specifying a .pem file, see [Trusted Certificates](#).

Note: This option is only available in Windows.

Key Name	Default Value	Required
UseSystemTrustStore		No

Use Unicode SQL Character Types

This option specifies the SQL types to be returned for string data types.

- Enabled (1): The connector returns SQL_WVARCHAR for VARCHAR columns, and returns SQL_WCHAR for CHAR columns.

- Disabled (0): The connector returns SQL_VARCHAR for VARCHAR columns, and returns SQL_CHAR for CHAR columns.

Key Name	Default Value	Required
UseUnicodeSqlCharacterTypes	Selected (1)	No

User

The user name that you use to access the Presto server.



Note:

If using Kerberos authentication, make sure to confirm the default user name. For more information, see [Configuring Authentication in Windows](#) or [Configuring Authentication in a Non-Windows Machine](#).

Key Name	Default Value	Required
UID	PrestoODBC_Driver	No

Configuration Options Having Only Key Names

The `Driver` configuration option does not appear in the Windows user interface for the Simba Presto ODBC Connector. It is accessible only when you use a connection string or configure a connection in macOS or Linux.

Driver

In Windows, the name of the installed connector for (Simba Presto ODBC Connector).

On other platforms, the name of the installed connector as specified in `odbcinst.ini`, or the absolute path of the connector shared object file.

Key Name	Default Value	Required
Driver	Simba Presto ODBC Connector when installed in Windows, or the absolute path of the connector shared object file when installed on a non-Windows machine.	Yes

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