

# Create Oracle Connections

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You can create connections to one or more Oracle databases from Trifacta® Self-Managed Enterprise Edition.

## Pre-requisites

**NOTE:** Dots (.) in the names of Oracle tables or table columns are not supported.

- If you haven't done so already, you must create and deploy an encryption key file for the Trifacta node to be shared by all relational connections. For more information, see *Create Encryption Key File*.

## SSL

If you are connecting to the Oracle database using SSL, additional configuration is required in Oracle.

Trifacta Self-Managed Enterprise Edition supports the use of the following SSL ciphers to communicate with Oracle:

```
SSL_RSA_WITH_3DES_EDE_CBC_SHA
SSL_RSA_WITH_RC4_128_SHA
SSL_RSA_WITH_RC4_128_MD5
SSL_RSA_WITH_DES_CBC_SHA
SSL_DH_anon_WITH_3DES_EDE_CBC_SHA
SSL_DH_anon_WITH_RC4_128_MD5
SSL_DH_anon_WITH_DES_CBC_SHA
SSL_RSA_EXPORT_WITH_RC4_40_MD5
SSL_RSA_EXPORT_WITH_DES40_CBC_SHA
```

For more information, please see the documentation that is provided with your Oracle distribution.

## Configure

To create this connection:

- In the Import Data page, click the Plus sign. Then, select the Relational tab. Click the Oracle card.
- You can also create connections through the Connections page. See *Connections Page*.

For additional details on creating an Oracle connection, see *Enable Relational Connections*.

This connection can also be created using the API.

- For details on values to use when creating via API, see *Connection Types*.
- See *API Reference*.

Modify the following properties as needed:

Property	Description
Host	Enter your hostname. Example:  <div style="border: 1px solid #ccc; padding: 5px; width: fit-content; margin: 5px auto;">testsql.database.windows.net</div>
Port	Set this value to 1521.
Connect String options	Please insert any connection options as a string here. See below.
Enable SSL	Select the option if the connection should use SSL.  <div style="border: 1px solid #ccc; padding: 10px; margin: 10px auto; width: 80%;"> <p><b>NOTE:</b> Additional configuration may be required in the database server. For more information, please consult the documentation that was provided with the distribution.</p> </div>  <div style="border: 1px solid #ccc; padding: 10px; margin: 10px auto; width: 80%;"> <p><b>NOTE:</b> Additional configuration is required. See <i>Configure Data Service</i>.</p> </div>
Service Name	Enter the name of the Oracle service.
User Name	(basic credential type only) Username to use to connect to the database.
Password	(basic credential type only) Password associated with the above username.
Test Connection	After you have defined the connection credentials type, credentials, and connection string, you can validate those credentials.
Connection Name	Display name of the connection
Connection Description	Description of the connection, which appears in the application.

## Reference

### Connection URL

The properties that you provide are inserted into the following URL, which connects Trifacta Self-Managed Enterprise Edition to the connection:

```
<host>:<port>/<service_name>
```

### Connect string options

The connect string options are optional. If non-standard connections are required, Oracle supports using tnames format.

When the connect string options field is used:

- The connect string options parameters are prepended with `jdbc:oracle:thin:@`.
- The following fields are ignored from the form. These values must be specified as part of the tnames :
  - Host
  - Port
  - Service
  - SSL

After you specify the connect string options, the generated connection URL is automatically prepended with the following protocol information. Do not add this to the connection URL or connect string options:

```
jdbc:oracle:thin:@
```

Examples are below.

### Use SID:

If you are using a service identifier, instead of a service name, please specify your connection string options as follows:

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=oracle.rds.example.com)(PORT=1521))(CONNECT_DATA=(SID=orcl)))
```

### Use TCPS:

If TCPS protocol is required, you can specify your connection string options as follows:

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcps)(HOST=oracle.rds.example.com)(PORT=1521))(CONNECT_DATA=(SERVICE_NAME=orcl)))
```

For more information, please see the documentation for the Oracle driver.

### Driver Information

This connection uses the following driver:

- **Driver name:** `oracle.jdbc.driver.OracleDriver`
- **Driver version:** `com.oracle.database.jdbc:ojdbc8:19.9.0.0`
- **Driver documentation:** <https://docs.oracle.com/en/database/oracle/oracle-database/19/index.html>

### Troubleshooting

For more information on common error messages, see [https://docs.oracle.com/cd/E11882\\_01/java.112/e16548/apxermmsg.htm#JJDBC28962](https://docs.oracle.com/cd/E11882_01/java.112/e16548/apxermmsg.htm#JJDBC28962).

### Use

For more information, see *Database Browser*.

### Data Conversion

For more information on how values are converted during input and output with this database, see *Oracle Data Type Conversions*.