

Configure Connectivity

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This section covers the following areas around general connectivity of the Trifacta® platform.

Additional configuration may be required for individual connection types. For more information, see *Connection Types*.

Enable

The platform automatically enables connectivity to relational databases for reading in datasets and writing results back out.

NOTE: Relational connectivity requires the use of an encryption key file, which must be created and deployed before you create relational connections. For more information, see *Create Encryption Key File* in the Install Guide.

Data Service

The platform streams records from relational sources through the data service. These records are applied to transformation and sampling jobs on the Photon running environment, which is native to the Trifacta node.

Tip: In general, you should not have to modify settings for the data service. However, if you are experiencing general performance issues or issues with specific connection types, you may experiment with settings in the data service.

For more information, see *Configure Data Service* in the Configuration Guide.

Relational Features

Custom SQL Query

To enhance performance of your relational datasets, you can enable the use of custom SQL queries against your relational datasources, which allows you to pre-filter your datasets before you ingest them into the platform. This feature is enabled by default, but additional configuration can be applied. See *Enable Custom SQL Query*.

JDBC Ingestion

By default, the platform ingests data from your relational datasources to the base storage layer for faster job execution. See *Configure JDBC Ingestion*.

Append userId to logged queries

NOTE: This feature may be available via Hot Fix only. Please contact *Trifacta Support*.

Optionally, you can choose to enable appending the Trifacta user identifier as a comment to the SQL queries that are written to your database logs. Example:

```
execute <unnamed>: SELECT * FROM "public"."artifacts" LIMIT 10 /* userId: 1 */
```

In the above, the Trifacta userId (1) is written in the comment.

These types of queries are logged for the following basic activities:

- Data preview: when previewing data from a relational source, a query is executed against the database
- Data import: when selecting a table to import
- Data import using custom SQL:
 - Click Validate button.
 - Custom SQL execution.

This feature enables auditing of Trifacta user activities through your database logs.

Steps:

1. You can apply this change through the *Admin Settings Page* (recommended) or `trifacta-conf.json`.
For more information, see *Platform Configuration Methods*.
2. Locate the following setting and set it to `true`:

```
"feature.addUserIdToSQLQuery.enabled": false,
```

3. Save your changes and restart the platform.

Enable Driver Logging

Optionally, you can enable the inclusion of log entries from the driver underlying a relational connection.

NOTE: This option applies only to relational connections that rely on CData drivers. Some connections may not support this option.

When you create or edit a relational connection, insert the following as part of the Connect String Options:

```
logfile=STDOUT://;verbosity=5;
```

Log entries are included in the `data-service.log` file is included in the standard Support Bundle. For more information, see *Support Bundle Contents*.

Configure Security

For more information, see *Configure Security for Relational Connections*.

Enable SSO Connections

If you have enabled Kerberos on the Hadoop cluster, you can leverage the Kerberos global keytab to enable SSO connections to relational sources. See *Enable SSO for Relational Connections*.

Type Inference

By default, the platform applies type inferencing to all imported datasources. However, for schematized sources, you may wish to disable type inferencing from the platform instead relying on the types provided from the source.

Tip: You can also toggle the use of type inferencing for individual connections or for individual imported datasets.

For more information, see *Configure Type Inference*.

Enable OAuth 2.0 Connectivity

Some supported relational datastores support authentication using OAuth 2.0.

- For each system to which you want to connect, you must create a client app in the target system. For more information, see *Enable OAuth 2.0 Authentication*.
- For a target system for which you have created a client app, you must create at least one client in the Trifacta application. For more information, see *Create OAuth2 Client*.