

## Connections

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## Data connections in Cloudera Data Visualization

Cloudera Data Visualization allows you to create connections to many types of external data sources. You can set up connections to the different data sources that you can then use to build visuals.

The following connection types are supported:

- Hive
- Impala
- MariaDB
- MySQL
- PostgreSQL
- Solr [Technical Preview]
- Spark SQL
- SQLite (not supported in Cloudera Data Warehouse)
- Snowflake [Technical Preview]

For more information, see *Connecting to data*.

### Related Information

[Connecting to data](#)

## User impersonation in Cloudera Data Warehouse

User impersonation allows Cloudera Data Visualization to execute queries in Cloudera Data Warehouse on behalf of logged in users through a trusted service account.

When setting up a Hive or Impala data connection within the same Cloudera Data Warehouse environment as your Cloudera Data Visualization instance, the domain is considered secure and trusted and a default service account can be used for authentication. Impersonation in the Advanced settings is turned on by default. During setup, when a trusted connection is selected, the necessary information is auto-populated. These are passwordless connections, so only the username field is populated with the service user.

As a result of impersonation all incoming queries are evaluated against the data security policies of the users' setup in Ranger. From the query logs and profiles, you can see the trusted service user appears as the Connected User for authentication. The Cloudera Data Visualization user appears as the Delegated User for authorization, and their permissions will be evaluated before query runtime to ensure they have access to the data they are requesting.