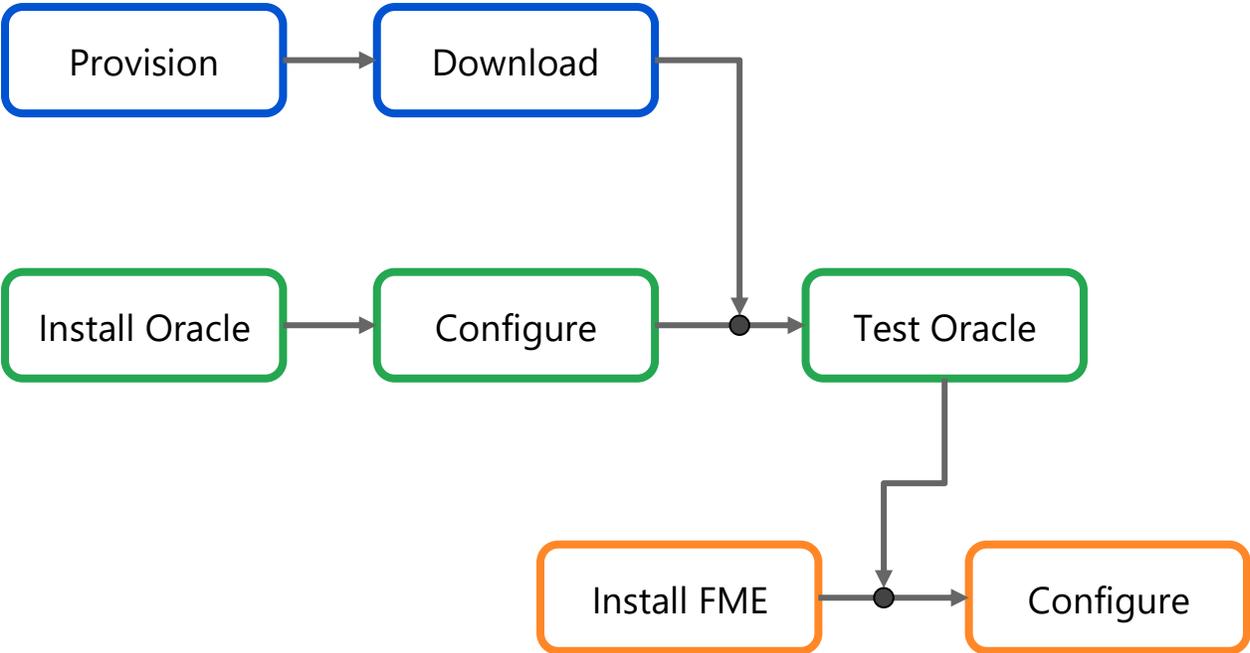


# Creating a connection from FME to Oracle Autonomous Data Warehouse (ADW)

Validation Matrix	Version
<b>FME</b>	2020.1 b20544 or higher 2021.0 b21090 or higher
<b>Oracle Client</b>	18.5 or higher

## Configuration Steps



## Step 1: Provision Autonomous Database plus Install and Configure Oracle Client

1. Provision Oracle Autonomous Database, either Autonomous Database Warehouse (ADW) or Autonomous Transaction Processing (ATP), and download the corresponding credentials.zip file to the system that will have the FME installation. For the Oracle documentation to provision ADW click [here](#). For the Oracle documentation to provision ATP, click [here](#). Also check [Downloading Client Credentials \(Wallets\)](#).
2. Download the Oracle [Instant Client and SQL\\*Plus Packages](#) to the same system that FME is installed. The next steps will validate that the Oracle Database Client can communicate with your Autonomous Database. Installing it on the same system as FME ensures that FME is also configured correctly.
3. Uncompress credentials.zip file into a secure folder.
4. In the uncompressed folder, edit the `sqlnet.ora` file, replacing “`*/network/admin`” with the name of the folder containing the client credentials. For example:

```
WALLET_LOCATION = (SOURCE = (METHOD = file) (METHOD_DATA =
(DIRECTORY="/home/adwc_credentials")))

SSL_SERVER_DN_MATCH=yes
```

5. Create an environment variable named `TNS_ADMIN`. Set it to the location of the secure folder containing the credentials file you saved in Step 3.
6. Test the Oracle Client with Oracle SQL\*Plus. The `tnsnames.ora` file in the uncompressed folder contains either three or five database service names identifiable as either `high,medium` and `low`, or `high, medium, low, tp` and `tpurgent` (the service names presented depend on whether your database is ADW or ATP). The predefined service names provide different levels of performance and concurrency for your database. Use one of these service names (for example, ‘`my_high`’) as your `ConnectionString`. For more information on these service names, click [here](#) for ADW databases, and [here](#) for ATP databases.

The command to test your connection with SQL\*Plus will follow this format:

```
sqlplus connect username/password@connectString
```

For example:

```
sqlplus connect my_username/my_password@my_high
```

If the connection is successful you are ready to move to the next step.

## Step 2. Install FME 2020.1 or Higher

If there is a pre-existing FME 2020.1 or higher installed, jump to [Step 3](#) which describes the steps to configure ADWC as a target.

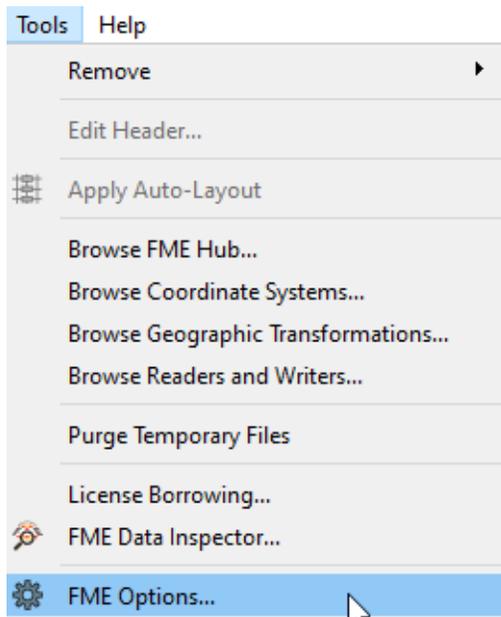
To install FME software please refer to the [Install Documentation](#).

For Mac OS only, there are additional steps...

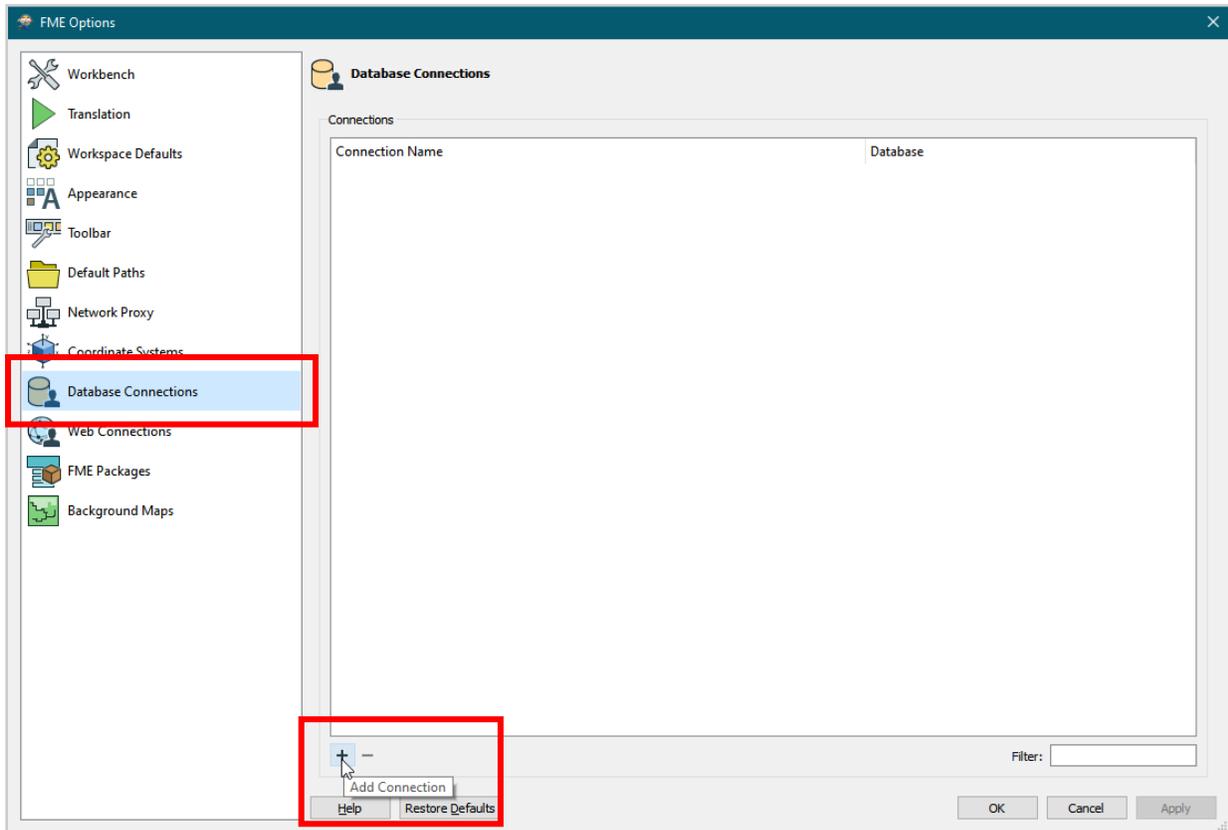
- [to allow FME to see the Oracle client](#); and
- [to allow FME to see the TNS\\_ADMIN environment variable](#).

## Step 3: Configuring FME to connect with Autonomous Databases

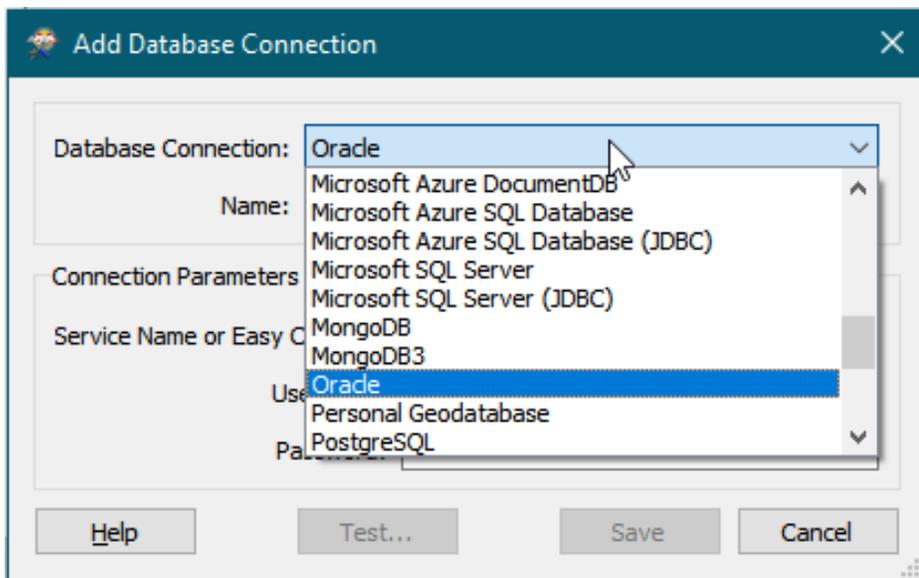
1. Open FME Workbench (2020.1 +), and navigate to **Tools > FME Options** (Windows/Linux). For Mac navigate to **FME Workbench > Preferences...**



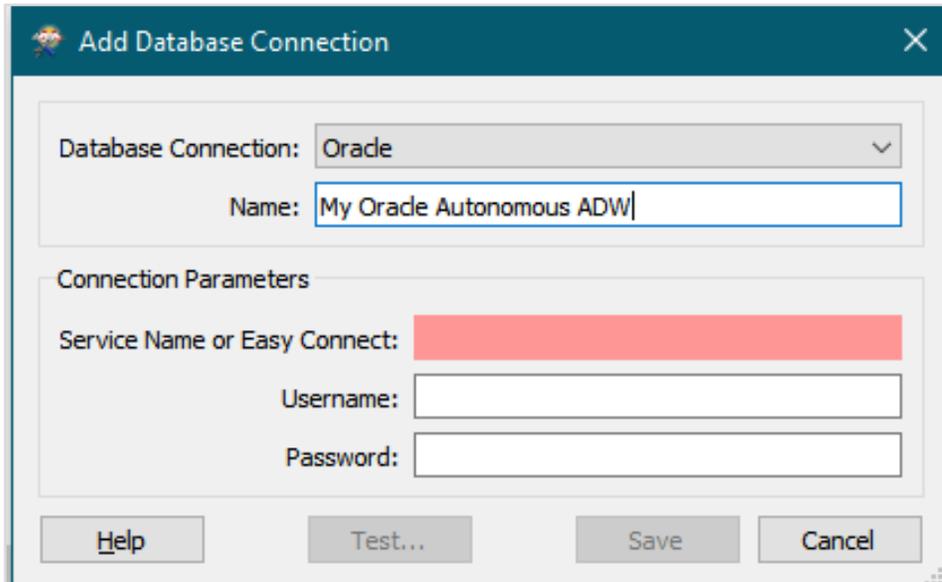
2. Choose the 'Database Connections' option on the left of the window, and then press the '+' on the bottom to add a connection



3. Under 'Database Connection:', choose Oracle



4. Give your connection a name, for example 'My Oracle Autonomous ADW'

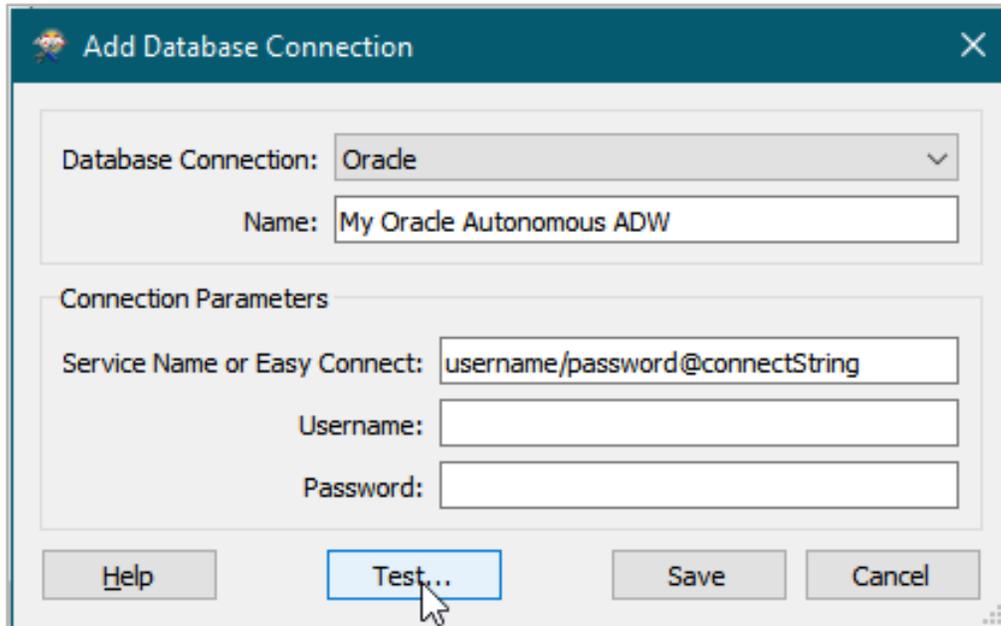


The screenshot shows a dialog box titled "Add Database Connection". It has a dark teal header with a close button (X) on the right. Below the header, there are several input fields and buttons. The "Database Connection:" dropdown menu is set to "Oracle". Below it, the "Name:" text box contains the text "My Oracle Autonomous ADW". Under the "Connection Parameters" section, the "Service Name or Easy Connect:" text box is highlighted with a red background. Below this are three empty text boxes for "Username:" and "Password:". At the bottom of the dialog, there are four buttons: "Help", "Test...", "Save", and "Cancel".

5. Under 'Connection Parameters', fill out 'Service Name or Easy Connect:' with the same connection parameters you used to connect with sqlplus ([instructions above](#)):

`username/password@connectString`

where `connectString` is one of the database service names listed in your



`tnsnames.ora` file.

6. Click the 'Test' button. After a successful connection test, you should now be able to connect to your Oracle Autonomous database in FME using the Oracle Autonomous Spatial Object and Oracle Autonomous Non-Spatial readers & writers.