Connect to the Data Warehouse from Tableau

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Answer

To access the Data Warehouse from Tableau:

- Windows Setup
- Mac Setup
- Connect to the warehouse in Tableau (Windows and Mac)

Windows Setup

1. Make sure the Oracle client is installed on your computer.
2. Download and install Oracle drivers from the Tableau website
3. Make sure that the tnsnames.ora file, usually in C:\oracle\product\11.2.0\client\network\admin, contains an entry for the Data Warehouse's database:

```
warehouse =
   (DESCRIPTION =
      (ADDRESS_LIST =
         (ADDRESS = (PROTOCOL = TCP)(HOST = warehouse.mit.edu)(PORT = 1521))
      )
      (CONNECT_DATA = (SID = DWRHS))
   )
```

   a. If your tnsnames file does not have the warehouse, copy and paste the above text into your existing tnsnames.ora file.
   b. If you do not have a tnsnames.ora file, save this TNSNames.ora file to C:\oracle\product\11.2.0\client\network\admin.
4. Make sure the TNS_ADMIN environment variable points to the directory containing the tnsnames.ora file "C:\oracle\product\11.2.0\client\network\admin" and not "C:\oracle\product\11.2.0\client\network\admin\TNSNames.ora".
   a. Go to **Start** > **Control Panel** > **System**.
   b. Click **Advanced system settings**.
   c. In the Advanced tab, click **Environment Variables**.
   d. Scroll through the System variables list for the "TNS_ADMIN" variable.
   e. If you see the variable, make sure the Value column matches the directory containing tnsnames.ora.
   f. If you don't see the variable, click **New** and add the variable and the directory in the Value.
   g. Click **OK** and close out of all the System/System properties windows.
5. Continue to Connect to the warehouse in Tableau.

Mac Setup

1. Make sure you're logged in as an Adminstrator.
2. Download the Oracle JDBC driver version 19.18 from here ojdbc8.jar
3. Copy the .jar file to this folder (you may have to create it manually):

```
~/Library/Tableau/Drivers
```

4. Double-click the downloaded **.jar** file.
5. Double-click **Tableau Oracle Libraries.pkg**.
6. Accept all defaults to install the package.
7. Save this TNSNames.ora file to your desktop and copy it to /etc:

> ARM-based Macs (M1/M2 chips) will also need the following files in /etc
> a. ldap.ora
> b. sqlnet.ora

- **Note: Do not use the command line to copy the file**

   a. In Finder, select **Go > Go To Folder**, and then type /etc (do not put a period after etc).
   b. Copy the **.ora** file to /etc
8. Configure the TNS_ADMIN environment variable:
   a. Start **Terminal** and type the following command:

```
sudo nano /etc/launchd.conf
```

   b. Type your local password when prompted.
   c. Type the following:

```
setenv TNS_ADMIN /etc
```

   d. Press **Ctrl-X**, then **Y**, then Enter to save changes and exit nano.
9.

ARM-based Macs (M1/M2 chips) will also need the following plist file

   a. Start **Terminal** and type the following command:

```
nano ~/Library/LaunchAgents/com.oracle.TNS_ADMIN.plist
```

   b. Copy and paste the text below

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>Label</key>
    <string>com.oracle.TNS_ADMIN</string>
    <key>ProgramArguments</key>
    <array>
      <string>/bin/launchctl</string>
      <string>setenv</string>
      <string>TNS_ADMIN</string>
      <string>/etc</string>
    </array>
    <key>RunAtLoad</key>
    <true/>
</dict>
</plist>
```

   c. Press **Ctrl-X**, then **Y**, then Enter to save changes and exit nano.

10. Restart the Mac.
11. Confirm you can connect to the Warehouse by opening Terminal and typing the following command:

```
ping warehouse
```

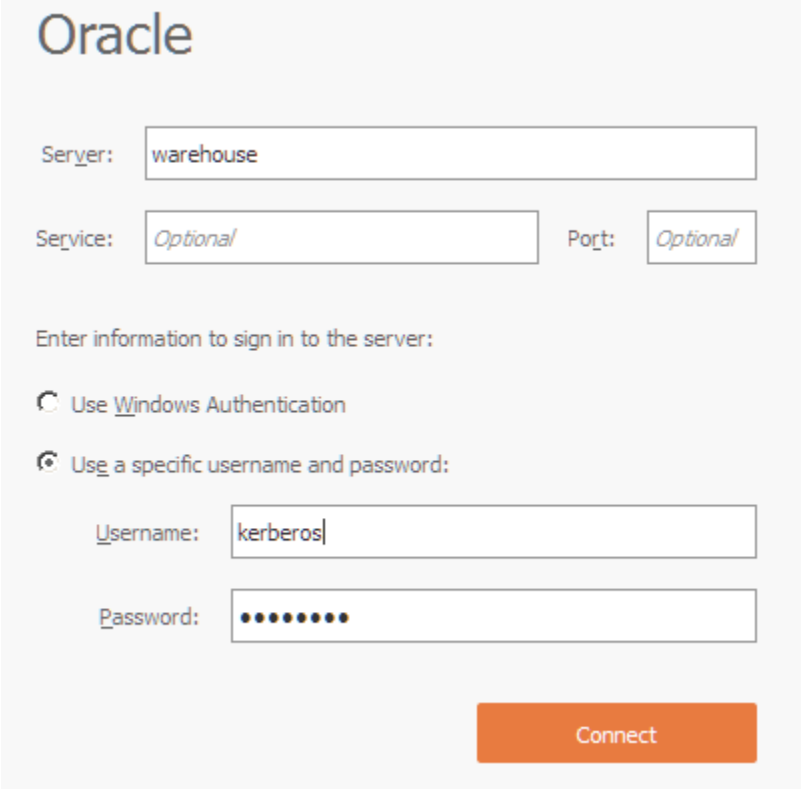
12. Exit Terminal and continue to Connect to the warehouse in Tableau.

Connect to the warehouse in Tableau (Windows and Mac)

1. In Tableau, click **Connect to Data**.
2. Under On a server, click **Oracle**.
3. Enter the following values and leave all other fields blank:

Server	warehouse
Select User	a specific username and password

Username	your Kerberos username
Password	your Data Warehouse password (If you don't have a Data Warehouse password or have forgotten it, see Change Your Data Warehouse Password.)



4. Click **Connect**.
5. If you get an error, enter ".world" (without the quotes) in the Service field and try again.
6. If you're on a Mac, try the following:
    - Oracle database error 21561 (ORA-21561: OID generation failed)
7. To add tables from the Data Warehouse, see I've successfully connected to the Data Warehouse in Tableau, but I don't see anything. What do I do?

See Also

- Tableau Landing Page