

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 Administrator.
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.)

Oracle

Server:

Service: Port:

Enter information to sign in to the server:

☐ Use Windows Authentication

☒ Use a specific username and password:

Username:

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](#)