Connect to the Data Warehouse from Tableau

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To access the Data Warehouse from Tableau:

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

Note on Tableau Oracle Connection

JDBC driver versus OCI driver

Beginning with version 2020.2, Tableau recommends that you use the JDBC driver (available from the Driver Download page) with this connector. The newer JDBC driver resolves some limitations found with the OCI driver, such as no spatial support or Kerberos delegation on Linux.
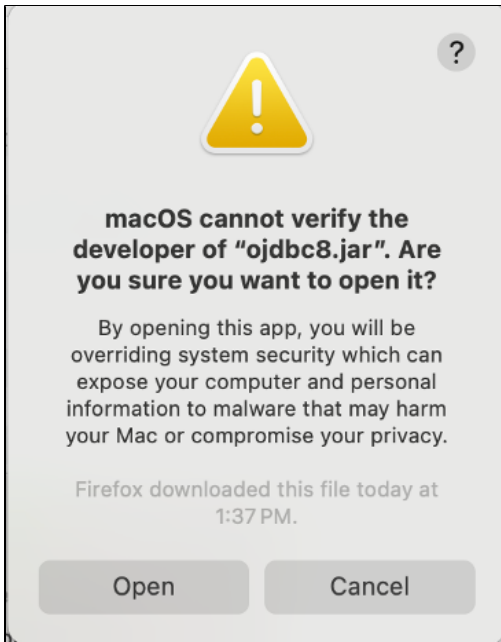
Windows Setup

1. Download the Oracle JDBC driver version 19.18: ojdbc8.jar
2. Copy the .jar file to `C:\Program Files\Tableau\Drivers`

   ℹ️ You may have to create the Drivers directory manually)
3. If you are prompted with a "Destination Folder Access Denied" pop up message box, select **Continue**
4. Save this TNSNames.ora file to `C:\Program Files\Tableau\Drivers`
5. Make sure the `TNS_ADMIN` environment variable points to the directory containing the `tnsnames.ora` file `C:\Program Files\Tableau\Drivers`
   a. Go to **Start > Control Panel > System**
      or
      Click on **Start**, search "Edit environment" select **Edit the system environment variables** *or* **Edit environment variables for your account**.
   b. Click **Advanced system settings / User variables for User**
   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.
6. 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. You should see the following message.

macOS cannot verify the developer of "ojdbc8.jar". Are you sure you want to open it?

By opening this app, you will be overriding system security which can expose your computer and personal information to malware that may harm your Mac or compromise your privacy.

Firefox downloaded this file today at 1:37 PM.

Open   Cancel

5. Click **Open**.
   Result: The message should disappear. Double clicking the OJDBC file again should not trigger this warning anymore.
6. Save these three files to your desktop and move them to your /etc folder
   - TNSNames.ora file
   - ldap.ora
   - 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
7. Create a plist file by doing the following:
   a. Start **Terminal** and type the following command:

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

   ⚠️ If the folder LaunchAgents has not already been created, you will need to create one by:

      i. Navigate to the library folder: `cd ~/library`
      ii. Create the folder `mkdir LaunchAgents`
   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.
8. Verify the location for TNS_ADMIN in terminal by entering: `echo $TNS_ADMIN`.
   Result: This should return /etc
9. Restart the Mac.

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

```
ping warehouse
```

11. 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