

Certification Matrix	Version
Looker	5.4
JDBC Driver	Oracle JDBC 12.1.0.2 and higher
ODBC Driver	-
OCI Driver	-

1. This document assumes that the Autonomous Data Warehouse Cloud (ADWC) has been provisioned and the corresponding wallet zip file has been downloaded to the system that has the Looker install. For the Oracle documentation to provision ADWC please check [here](#).
2. Follow the instructions in this Looker document to configure your Oracle ADWC instance for Looker. This will include creation of the *looker* user, which is referenced later in these instructions.

<https://docs.looker.com/setup-and-management/database-config/oracle>

The instructions for ADWC vary slightly. The first step, *Encrypt Network Traffic*, can be skipped as connections to ADWC are secured by default. Also, the instructions reference objects owned by the *sys* user. For ADWC, the *admin* user should be substituted wherever the *sys* user is referenced.

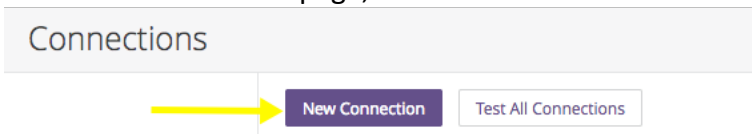
3. Click on the *Admin* link on the top right of the Looker UI



4. From the Admin Menu on the left side of the page, click on the *Connections* link



5. From the Connections page, click the New Connection Button



6. Populate the *Connection Settings* page based on the following table. There is an example of a properly completed *Connection Settings* page at the end of this document.

Fields highlighted in yellow indicate values that are taken from the *tnsnames.ora* file.

This file can be found by expanding the wallet zip file downloaded from your Autonomous Data Warehouse instance.

Field	Value	Notes
Name		A user defined connection name. Must be unique.
Dialect	Oracle ADWC	
Use TNS	Checked	
Host:Port		Use the values for <i>host</i> and <i>port</i> from your <i>tnsnames.ora</i> file
Service Name		Use the value for <i>service_name</i> from your <i>tnsnames.ora</i> file
Username	looker	
Password		The password assigned to the <i>looker</i> user in step 1 above
Persistent Derived Tables	Checked	After checking Persistent Derived Tables, additional fields for PDT Overrides will be displayed. The default values should be used for all of these fields.
Temp Database	looker	
Additional Params		The security section from your <i>tnsnames.ora</i> file. Please see note below.
SSL	Checked	
Verify SSL Cert	Unchecked	

Note: this includes the opening parenthesis before the word security as well as the two closing parenthesis at the end of the security section, however it does not include the final closing parenthesis - the one that matches the opening parenthesis for the description section. For example:

```
(security=(ssl_server_cert_dn="CN=ADWC-dev.uscom-east-1.oraclecloud.com,OU=Testing Domain,O=End Point,L=Redwood Shores,ST=California,C=US"))
```

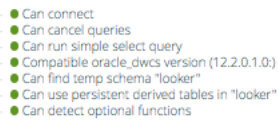
Also note that some unintended formatting may be inserted when copying this value and inserting it into the field on the Looker form. Verify that no additional formatting, such as additional spaces, were added during the copy and paste process.

7. Click the *Test These Settings* button at the bottom of the page. If your settings have all been entered correctly and Looker is able to connect to your ADWC instance, you should see a success message like this below the button:



Can connect

8. Once the test has completed successfully, click the *Add Connection* button to save your settings
9. After adding the connection, you will be returned to the *Connections* page. Click the Test button next to your new connection. This will perform a more complete test of your connection, verifying that all of the configuration performed in Step 1 was completed successfully. If all tests complete successfully (the test can take up to a minute to complete), you should see a success message like this:



- Can connect
- Can cancel queries
- Can run simple select query
- Compatible oracle_dwcs version (12.2.0.1.0)
- Can find temp schema "looker"
- Can use persistent derived tables in "looker"
- Can detect optional functions

10. You are now ready to get started exploring and visualizing your data! For instructions on how to get started, follow the Looker Developer Video Tutorials available at: <https://docs.looker.com/video-library/data-modeling>

and refer to our full set of online documentation at: <https://docs.looker.com>

Example of a completed form for adding a new connection:

[View Documentation](#)

Connection Settings		PDT Overrides	
Name *	<input type="text" value="looker_adwc_example"/>		
The name you use to refer to this connection in models.			
Dialect *	<input type="text" value="Oracle ADWC"/>		
Use TNS	<input checked="" type="checkbox"/>		
Host:Port *	<input type="text" value="adwc.uscom-east-1.oraclecloud.com"/> <input type="text" value="1522"/>	<input type="text" value="adwc.uscom-east-1.oraclecloud.com"/> <input type="text" value="1522"/>	
Service Name	<input type="text" value="example_lookertest_medium.adwc.oraclecloud.com"/>	<input type="text" value="example_lookertest_medium.adwc.oraclecloud.com"/>	
Username *	<input type="text" value="looker"/>	<input type="text" value="looker"/>	
Password	<input type="password" value="*****"/> <input type="button" value="Change Password"/>	<input type="password"/>	
Persistent Derived Tables	<input checked="" type="checkbox"/>		
Temp Database *	<input type="text" value="looker"/>		
The SCHEMA or DATABASE (depending on your dialect) in which Looker will write persistent derived tables.			
Additional Params	<input type="text" value="(security=(ssl_server_cert_dn='CN=adwc.uscom-east-1.oraclecloud.com,O..."/>	<input type="text" value="(security=(ssl_server_cert_dn='CN=adwc.uscom-east-1.oraclecloud.com,O..."/>	
Additional JDBC connection string parameters (advanced).			
PDT And Datagroup Maintenance Schedule	<input type="text" value="*/5 * * * *"/>		
Cron string specifying schedule for checking triggers and dropping expired tables. Interpreted in application timezone, currently 'America/Los_Angeles'			
SSL	<input checked="" type="checkbox"/>		
Verify SSL Cert	<input type="checkbox"/>		
Max Connections	<input type="text" value="30"/>		
Max number of connections Looker will allow at one time. Must be at least 5 and no more than 100.			
Connection Pool Timeout	<input type="text" value="120"/>		
The number of seconds a query will wait before timing out due to a full connection pool. Must be greater than 90.			
SQL Runner Precache	<input checked="" type="checkbox"/>		
Precache tables for faster lookup.			
Database Time Zone	<input type="text"/>		
Time zone the database stores dates and times in.			
Query Time Zone	<input type="text"/>		
Time zone to show dates and times in when querying.			