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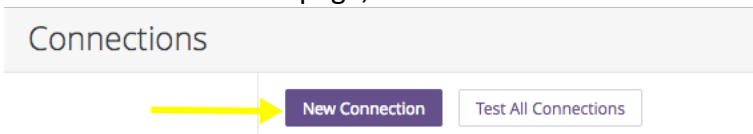
3. Click on the *Admin* link on the top right of the Looker UI

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.

Creating a connection from Looker to Oracle Autonomous Data Warehouse

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 *host* and *port* from your tnsnames.ora file
Service Name		Use the value for *service_name* from your tnsnames.ora file
Username	looker	
Password		The password assigned to the *looker* 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 tnsnames.ora 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:
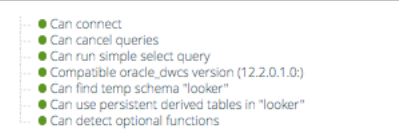
```
(security=(ssl_server_cert_dn="CN=ADWC-dev.uscom-east-
1.oraclecloud.com,OU=Testing Domain,O=End Point,L=Redwood
Shores,ST=California,C=US"))
```

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:

Connection Settings

Field	Value
Name *	looker_adwc_example

The name you use to refer to this connection in models.

Field	Value
Dialect *	Oracle ADWC
Use TNS	☑
Host:Port *	adwc.uscom-east-1.oraclecloud.com	1522
Service Name	example_lookertest_medium.adwc.oraclecloud.com
Username *	looker
Password	•••••••

Change Password

Field	Value
Persistent Derived Tables	☑
Temp Database *	looker

The SCHEMA or DATABASE (depending on your dialect) in which Looker will write persistent derived tables.

Field	Value
Additional Params	(security=(ssl_server_cert_dn="CN=adwc.uscom-east-1.oraclecloud.com,O

Additional JDBC connection string parameters (advanced).

Field	Value
PDT And Datagroup Maintenance Schedule	*/5 * * * *

Cron string specifying schedule for checking triggers and dropping expired tables. Interpreted in application timezone, currently 'America/Los_Angeles'

Field	Value
SSL	☑
Verify SSL Cert	☐
Max Connections	30

Max number of connections Looker will allow at one time. Must be at least 5 and no more than 100.

Field	Value
Connection Pool Timeout	120

The number of seconds a query will wait before timing out due to a full connection pool. Must be greater than 90.

Field	Value
SQL Runner Precache	☑

Precache tables for faster lookup.

Field	Value
Database Time Zone	

Time zone the database stores dates and times in.

Field	Value
Query Time Zone	

Time zone to show dates and times in when querying.

PDT Overrides

❓ View Documentation

Field	Value
Host:Port	adwc.uscom-east-1.oraclecloud.	1522
Service Name	example_lookertest_medium.adwc.oraclecloud
Username	looker
Password	
Additional Params	(security=(ssl_server_cert_dn="CN=adwc.uscon

Creating a connection from Looker to Oracle Autonomous Data Warehouse