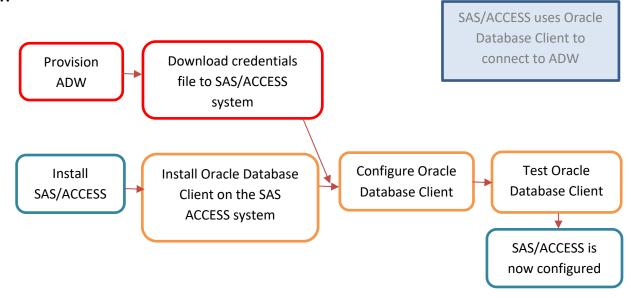
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| Certification Matrix | Version |
|--------------------------------|--------------------|
| SAS/ACCESS Interface to Oracle | 9.4 or higher |
| Oracle Client | 12.1.0.2 or higher |

Here is the overview of the install and configuration process to get SAS/ACCESS connected to ADW



- This document assumes that the Autonomous Data Warehouse has been provisioned and the corresponding credentials.zip file has been downloaded to the system that has the SAS/ACCESS Interface to Oracle installed. For the Oracle documentation to provision ADW please check here. Also check Downloading Client Credentials (Wallets).
- 2. Follow the instructions from the SAS documentation to install and configure <u>SAS ACCESS</u> <u>Interface to Oracle</u>. As a prerequisite make sure that you have installed the Oracle Database Client 12.1.0.2 or higher on the SAS/ACCESS environment.
- 3. All connections to Autonomous Data Warehouse use certificate-based authentication and Secure Sockets Layer (SSL). Copy the client credentials file that you downloaded in step 1 to the system running the SAS/ACCESS and uncompress it into a secure folder.
- 4. We first validate that the Oracle Database Client can communicate with ADW, and since it is installed on the same system as the SAS/ACCESS, it ensures that SAS/ACCESS Interface to Oracle is also configured correctly.
- 5. Steps 5, 6 and 7 configure and test the Oracle Database Client. Edit the sqlnet.ora file, replacing "?/network/admin" with the name of the folder containing the client credentials.

For example:

```
WALLET_LOCATION = (SOURCE = (METHOD = file) (METHOD_DATA =
  (DIRECTORY="/home/adwc_credentials")))
SSL_SERVER_DN_MATCH=yes
```

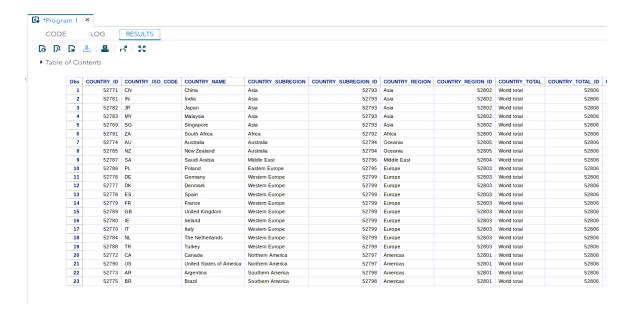
- 6. Create the TNS_ADMIN environment variable and set it to the location of the secure folder containing the credentials file you saved in Step 3. The tnsnames.ora file provided with the credentials zip file contains three database service names identifiable as high, medium and low. The predefined service names provide different levels of performance and concurrency for Autonomous Data Warehouse.
- 7. Test the Oracle Client with Oracle SQL*Plus

```
sqlplus password/\"Password\"@ConnectString
or
sqlplus /nolog
sql> set define off
sql> connect username/password@connectString
```

8. Now that you have successfully configured the Oracle Client it is time to test SAS/ACCESS connectivity to ADW. Once the connection is established at the oracle client layer, there is no change in configuration required from the SAS/ACCESS layer. Test out the connectivity using a tool like SAS Studio and run the following script to connect to ADW.

```
libname oralib oracle user=admin pw="<password from step 1>" path=<service name from tnsnames.ora>;
```

Creating a connection from SAS/ACCESS to Oracle Autonomous Data Warehouse



9. You are now ready to start exploring and visualizing your data.