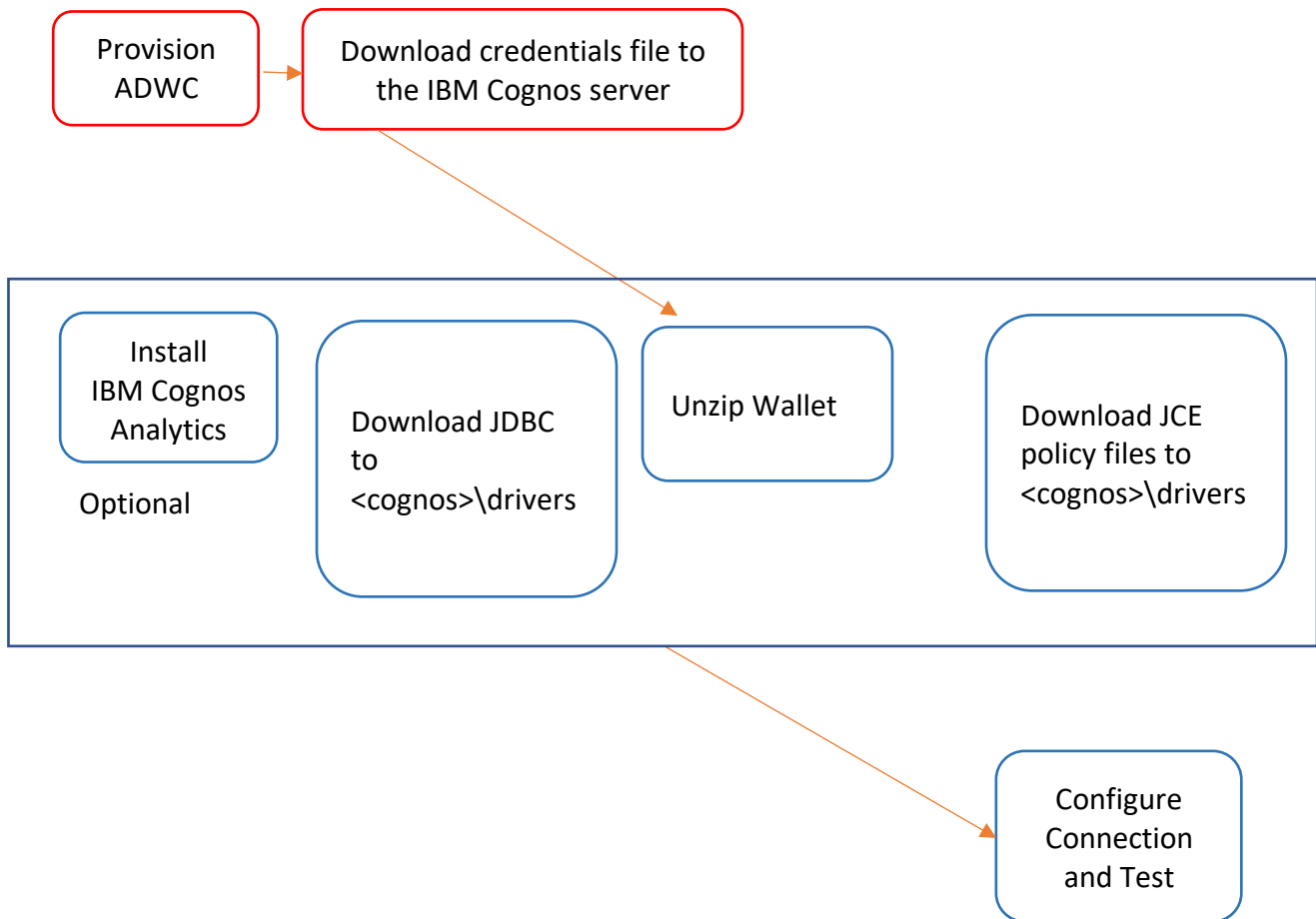# Creating a connection from IBM Cognos Analytics server to Oracle Autonomous Data Warehouse (ADW)

Author: Vijay Balebail

Certification Matrix	Version
IBM Cognos Analytics	11.0.13 and 11.1.X or higher
JDBC Driver	Oracle JDBC Driver 18.3

Configuration Steps

Provision ADWC

Download credentials file to the IBM Cognos server

Install IBM Cognos Analytics

Optional

Download JDBC to <cognos>\drivers

Unzip Wallet

Download JCE policy files to <cognos>\drivers

Configure Connection and Test

Step 1. Install IBM Cognos Analytics Software

If you have an existing Cognos Analytics software installed, then you can jump to Step 2 which describes the steps to configure ADWC as a target.

To install Cognos Analytics software, please refer to the Install [Documentation](#).
Note that the Cognos Analytics server can run on more than one server. You will have to download and configure **on all the servers** following the steps below.

Step 2: Configuring IBM Cognos Analytics to connect to ADW (Windows OS)

- Oracle recommends using the latest Oracle JDBC Driver version 18c (18.3 or higher) to connect to ADWC. You may download the driver files from [Oracle Technology Network](#) and follow instructions described below to find out which files to download.

- Cognos supports TNS based JDBC Thin connection to ADW using the TCPS connection protocol.

- Download the following files from the OTN [JDBC downloads page](#):
  - ojdbc8.jar (Oracle JDBC driver jar file)
  - oraclepki.jar (Additional jar required to access Oracle Wallets from Java)
  - osdt_cert.jar (Additional jar required to access Oracle Wallets from Java)
  - osdt_core.jar (Additional jar required to access Oracle Wallets from Java)

These files need to be placed into the Drivers Folder of each of the Cognos Analytics server installations. The typical directory for the Drivers is <cognos>\drivers directory assuming you have installed Cognos Analytics server on Windows OS.
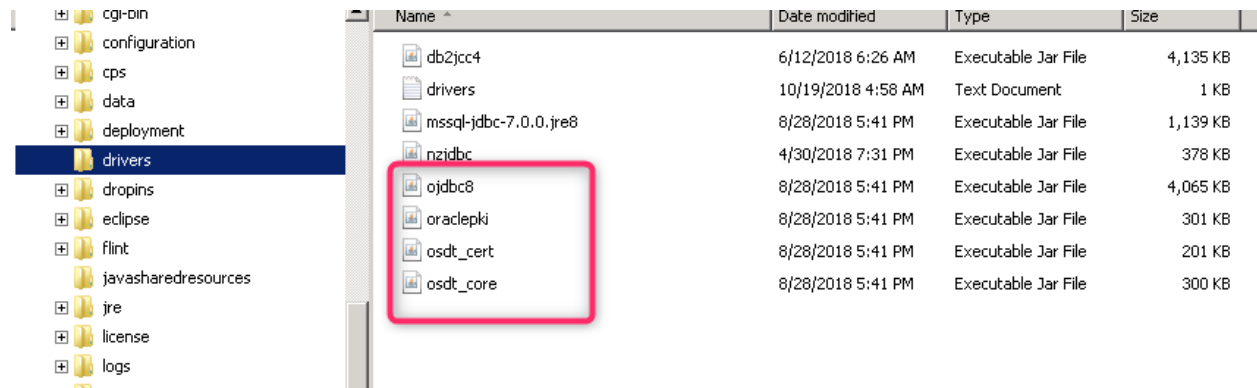

IBM Cognos Analytics needs to run in a JRE environment and needs JCE unrestricted policy files installed. Please use the IBM JRE.

IBM JRE:
Policy files available from the IBM Download Page.

Once JCE policy files are downloaded, place the local_policy.jar and ux_export_policy.jar files in the JRE Library Security sub directory. Usually the path to that directory on Windows OS is <cognos>\analytics\jre\lib\security
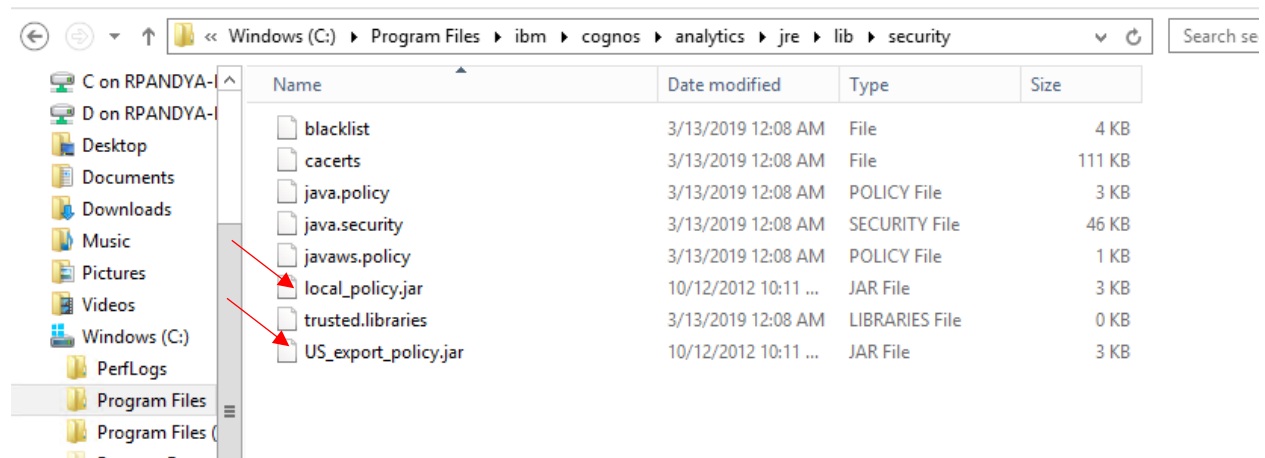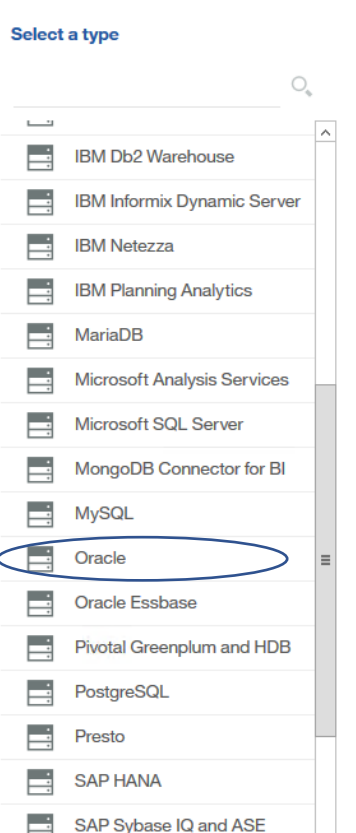

Re-start the Cognos Analytics server and now you are ready to configure a connection to ADWC.

Log into the Cognos Analytics server to configure a new Data Server Connection. Choose Manage → Data Server Connections → New Data Server Connection.
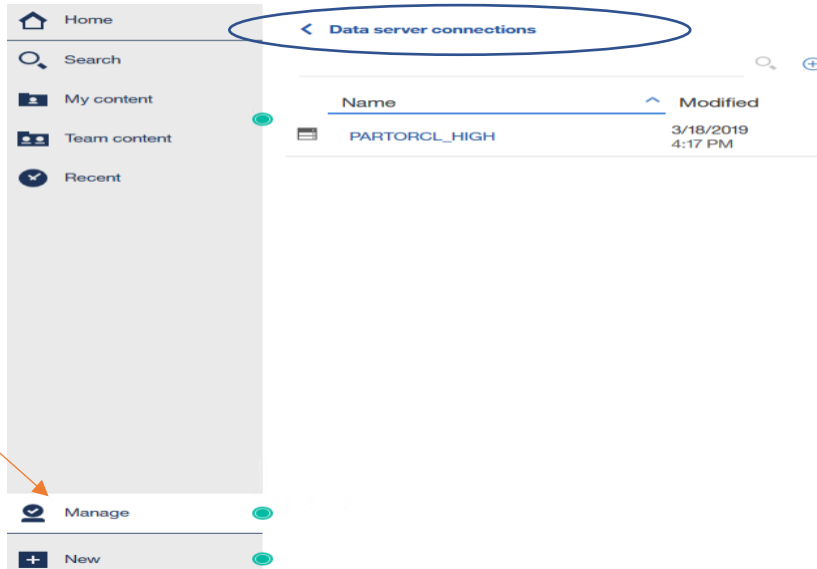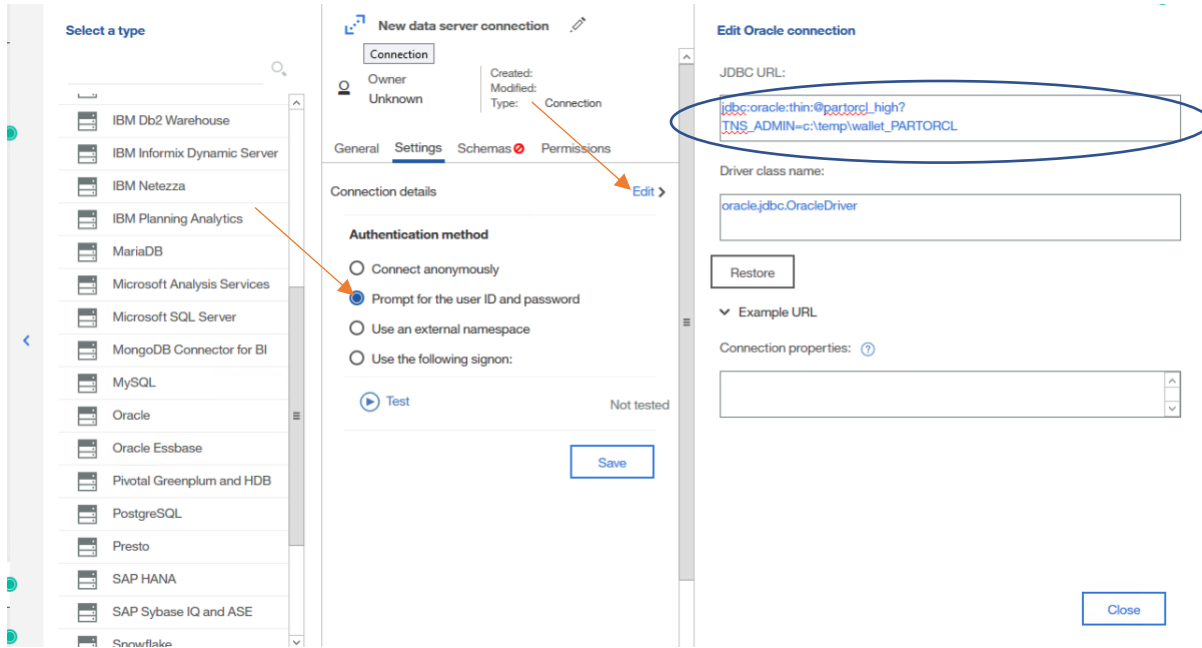

Select Database type as Oracle.

Under the settings section, choose Prompt for the user ID and password. Click on Edit to create a JDBC Thin URI using the service name from the tnsnames.ora file. You will find this information

in the tnsnames.ora file that is a part of the credentials zip file you had earlier unzipped in your TNS_ADMIN directory.

Before saving your connection, test the connection for success.
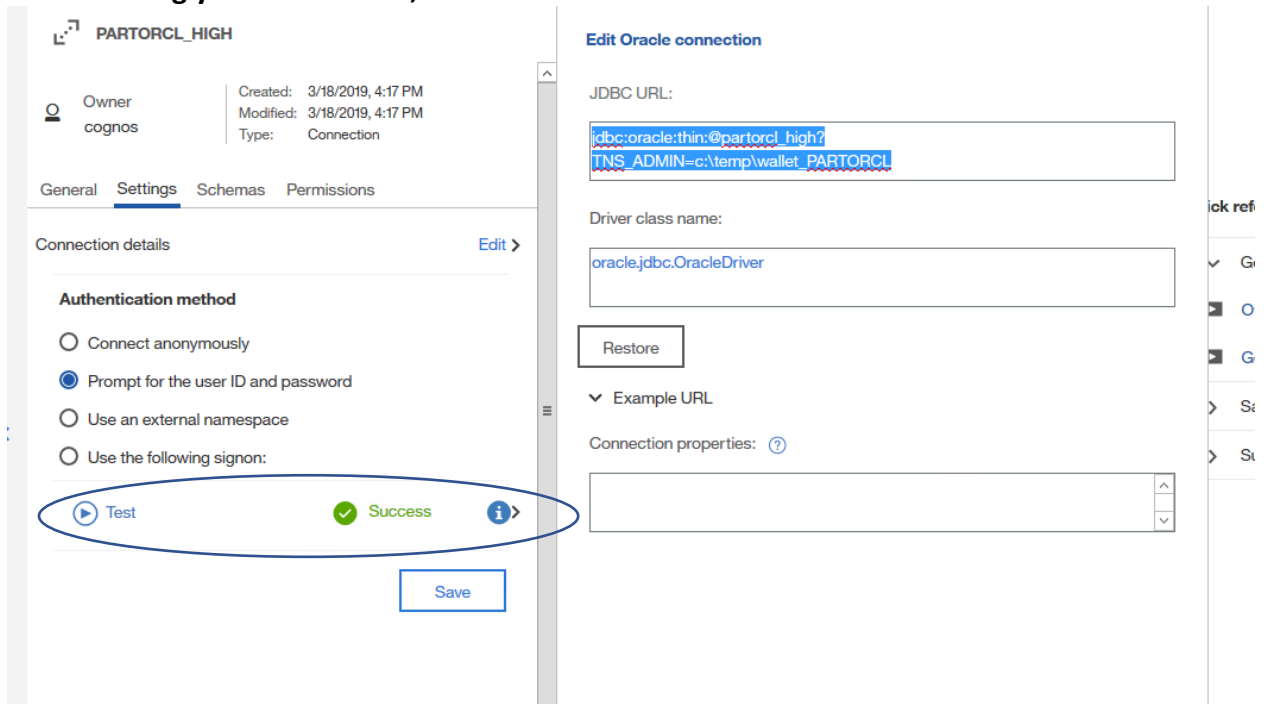
You have successfully configured IBM Cognos Analytics to connect to ADWC!