Creating a connection from BotSupply Insights to Oracle Autonomous Data Warehouse (ADW)
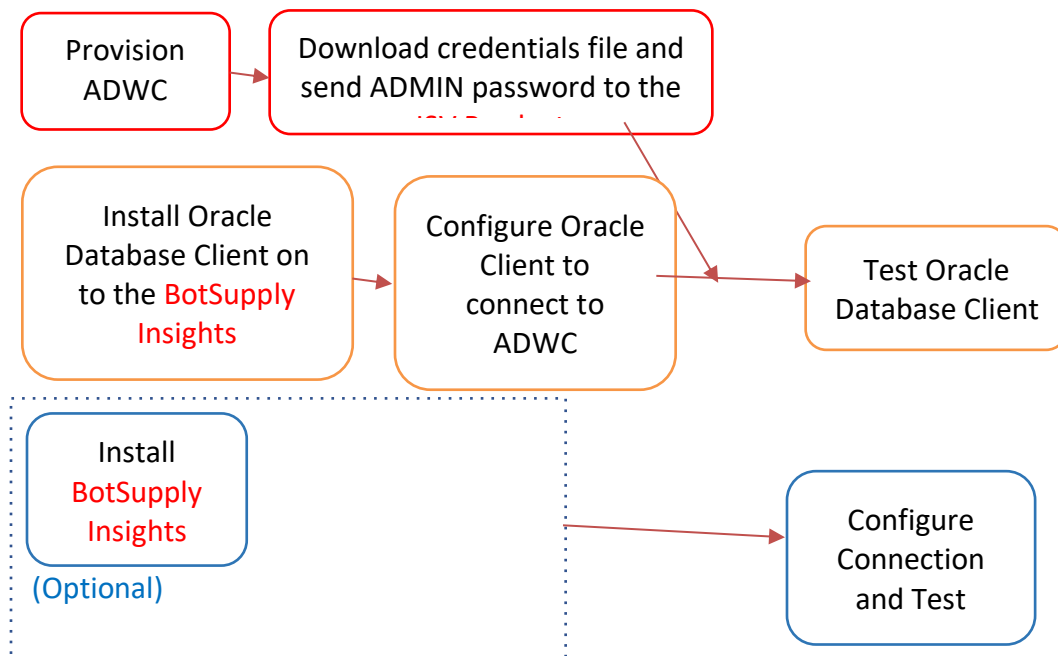
Author: Dhruman Bhadeshiya

Validation Matrix	Version
BotSupply Insights	1.0.0
Oracle Client	19.6

Configuration Steps

Provision ADWC → Download credentials file and send ADMIN password to the ~~ISV Product~~

Install Oracle Database Client on to the BotSupply Insights → Configure Oracle Client to connect to ADWC → Test Oracle Database Client

Install BotSupply Insights

(Optional)

→ Configure Connection and Test

Step 1: Provision ADWC and Configure Oracle Client on ISV

1. Provision Autonomous Data Warehouse Cloud (ADWC) and download the corresponding credentials.zip file to the system that will have the BotSupply Insights installation and also get password of ADMIN for the ADWC instance. For the Oracle documentation to provision ADWC click here. Also check Downloading Client Credentials (Wallets).

2. All connections to Autonomous Data Warehouse Cloud use certificate-based authentication and Secure Sockets Layer (SSL). Uncompress credentials.zip file into a secure folder.

3. Download the Oracle Database Client to the system where BotSupply Insights is installed. Validate that the Oracle Database Client can communicate with ADWC.

4. 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

5. Edit the `sqlnet.ora` file, replacing "?/network/admin" with the name of the folder containing the client credentials. The location of folder is stored in TNS_ADMIN environment variable so use that variable in `sqlnet.ora`

    For example:

    ```
    WALLET_LOCATION = (SOURCE = (METHOD = file) (METHOD_DATA =
    (DIRECTORY=${TNS_ADMIN})))

    SSL_SERVER_DN_MATCH=yes
    ```

6. 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 Cloud. Use one of these service names in your `ConnectString`.

7. Test the Oracle Client with oracledb NPM library

    ```
    try{
       let connection = await oracledb.getConnection({
         user: "admin",
         password: adminPassword,
         connectString
       });
    } catch(err){
        console.log(err);
    }
    ```

If the connection is successful you are ready to move to the next step.

Step 2. Install BotSupply Insights

To install BotSupply Insights software:

Dependencies:
1. MongoDB
2. Node >v12
3. NPM
4. OS Used: Ubuntu 16.04

Steps:
1. Copy example.env to .env and fill proper details.
2. Install pm2 globally with `npm install -g pm2`.
3. Install dependencies with `npm install`.
4. Run `npm run start` from ADW/api directory.
5. For subsequent runs use `npm run restart`.