Configuring CyberArk Application Server Credential Provider for New IBM Navigator Application Configurations On IBM WebSphere 9.x

PreRequsites:

A CyberArk vault must be accessible by all nodes within the WebSphere cluster.
The CyberArk Credential Provider must be installed on the nodes prior to configuration of WebSphere. Instructions may be found at https://docs.cyberark.com

Step 1: Copying CyberArk Libraries to Appropriate Locations

1.Please copy the javapassword.jar which may be found in the C:\Program Files (x86)\CyberArk\ApplicationPassword\SDK\ folder to the WebSphere lib folder (folder location will vary based on WebSphere installation location)

2.Please copy the CyberArk.jdbc.Generic.jar which is provided separately by CyberArk to the WebSphere lib folder (folder location will vary based on WebSphere installation location)

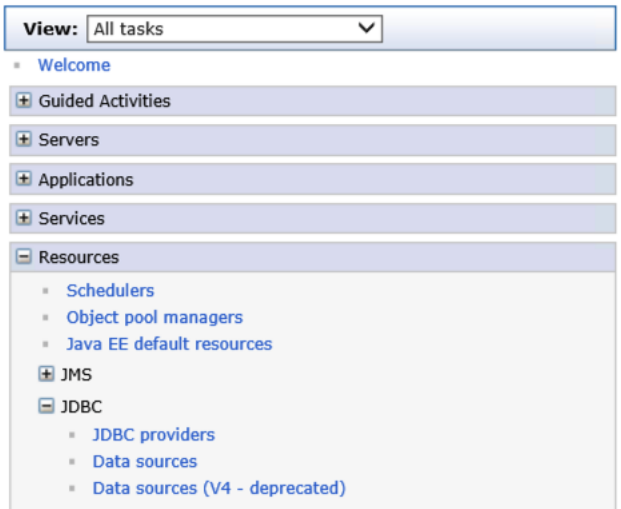
3. Repeat this on *all* nodes of the cluster including the Deployment Manager

Step 2: Restart The Application Server

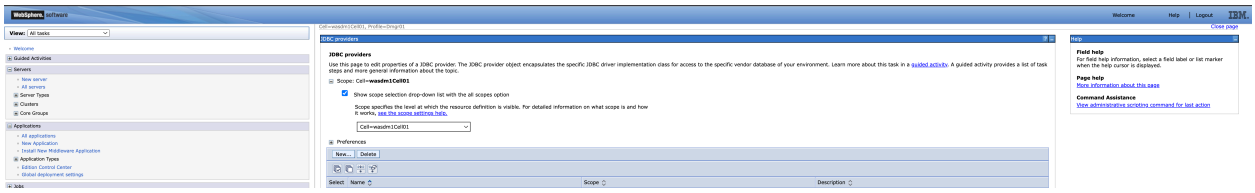
Please restart the application server and deployment manager to read in the CyberArk libraries.

Step 3: Creating the JDBC Provider

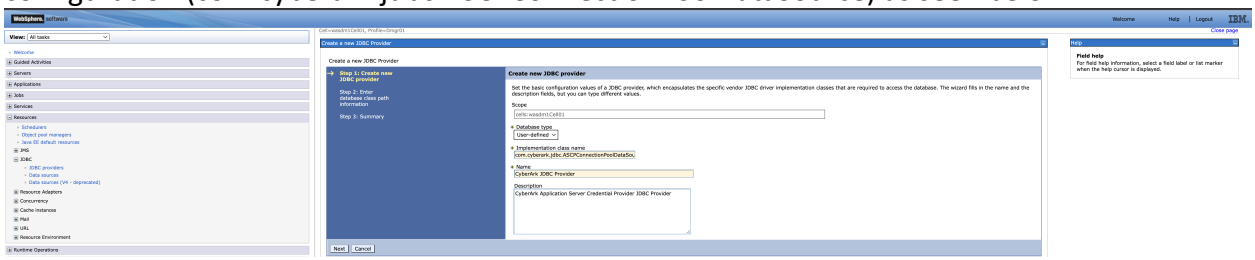
1. Log into WebSphere as an administrative user then navigate to the “Resources” Pull down as seen below:



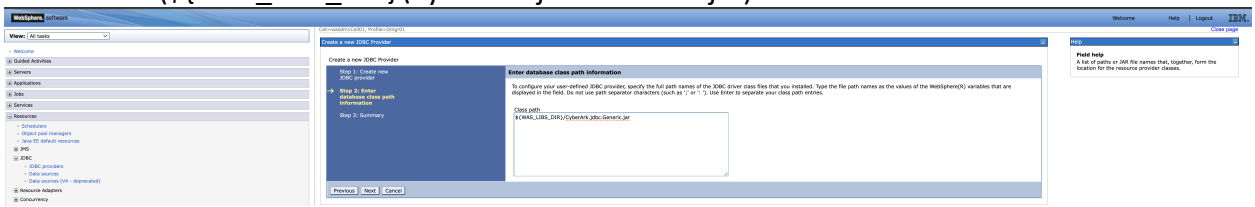
2. Select “JDBC Providers” and the following screen will appear:



3. Select New and the create a new JDBC Wizard will appear. Please fill out the configuration (com.cyberark.jdbc.ASCPConnectionPoolDataSource) as seen below:



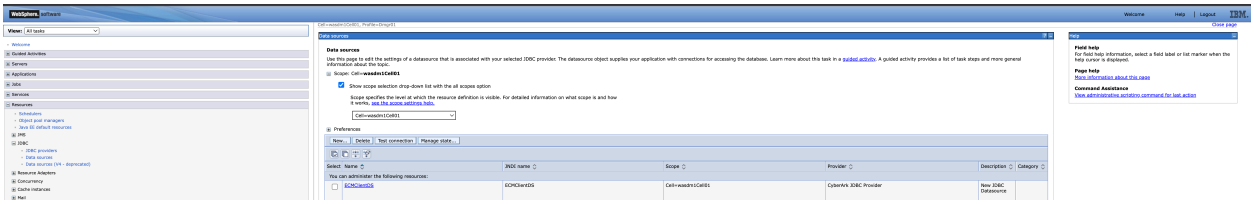
4. Click Next and configure the database class path information(${WAS_LIBS_DIR}\CyberArk.jdbc.Generic.jar) as seen below:



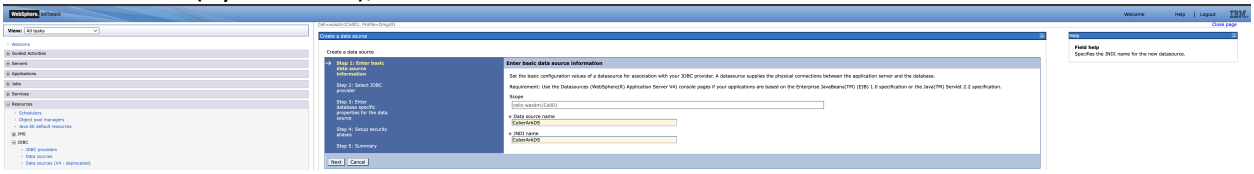
5. Click Next again which will bring up the Summary screen. Please review the information to make sure it is correct, then click the Finish button to complete the JDBC Provider Creation

Step 4: Modifying the Navigator DataSource Configuration

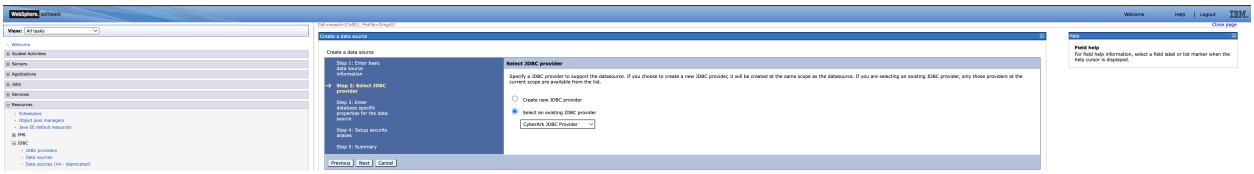
1. Please navigate to the Data sources configuration located under Resources->JDBC as seen below:



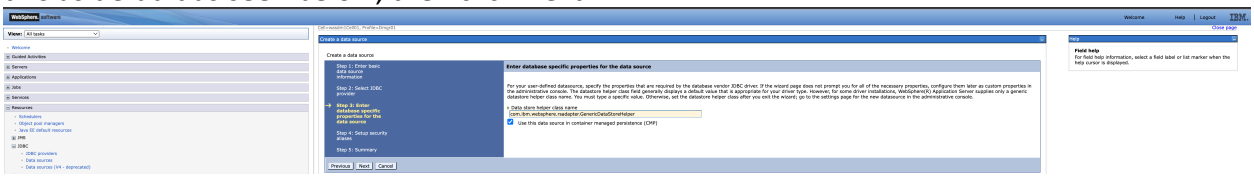
2. Create a New Datasource and the Datasource creation wizard will appear; please fill out as seen below (CyberArkDS), then click Next:



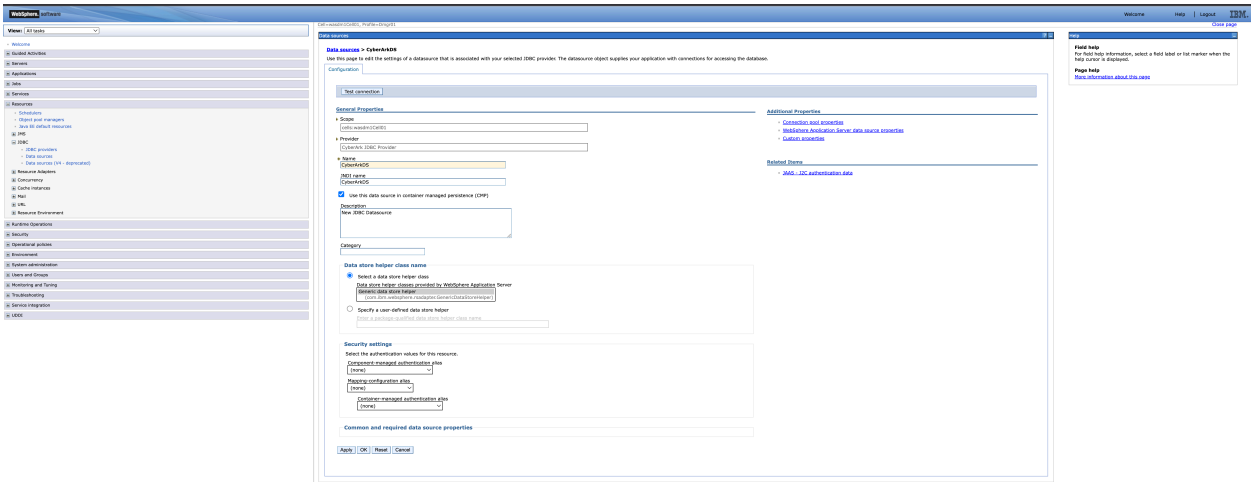
3. The wizard will then ask to select a JDBC provider please select as seen below (CyberArk JDBC Provider), then click Next:



4. The wizard will then ask to enter any specific properties for the datasource, please leave this as default as seen below, then click Next:



5. Finally, the wizard will ask to setup any security aliases, this should all be set to none as seen below, then click next to see the summary of the configuration.
6. Please review the summary to make sure all information has been configured correctly then click Finish. The datasource will now be created.
7. Click again on the CyberArkDS datasource and select custom properties to the right as seen below:



8. Please configure the following custom properties (Please create the properties if they do not already exist):

☐	ascp_AppId	apptest		false
☐	internalDataSource	oracle.jdbc.pool.OracleConnectionPoolDataSource		false
☐	ascp_VendorClass	oracle.jdbc.pool.OracleConnectionPoolDataSource		false
☐	ascp_Query	Safe=safetest;Folder=Root;Object=usertest		false
☐	url	jdbc:oracle:thin:@10.20.3.216:1521:XE		false

ascp_AppId – The CyberArk ApplicationID used for the application
internalDataSource – The datasource driver for the database.
ascp_VendorClass – The Vendor Factory used to create the vendor datasource
ascp_Query – The location of the credential required by the application
url – The URL for the database that the application will be using

9. Upon returning to the Datasource page there should be a datasource named ECMClientDS. Please click on the ECMClientDS datasource to rename it.
10. Rename the ECMClientDS to ECMClientDSOLD so that the old configuration is now out of production.
11. Click OK, then remember to save/sync the configuration.
12. Please click on the CyberArkDS to rename that datasource.
13. Please rename the CyberArkDS to ECMClientDS and click OK, then save/sync the configuration.
14. Please click the checkbox for the ECMClientDS datasource and click the Test connection button. If everything has been configured correctly. Websphere will say that the test was successful with 2 warnings

Step 5: Restart the Application & Test

Please restart the application and run any tests required to validate the application is working as expected.