

Installation Guide
Oracle Banking APIs
Release 20.1.0.0.0

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ORACLE®

Installation Guide

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking APIs Release 20.1.0.0.0, refer to the following documents:

- Oracle Banking APIs Installation Manuals

2. Introduction

2.1 Purpose of the Document

The purpose of the OBAPI Installation Manual is to provide a step by step overview on the installation process of the solution.

It includes:

- Reference to prerequisites software installation required for OBAPI & OBAPI installer
- Setup of OBAPI with Oracle's own Core Banking and Origination Products along with Third-party HOST system.
- Running the installation in silent mode
- Advanced Configurations (Post installation)
- Installation Verification
- Multi-Entity Installation and configuration
- Best Practice
- Troubleshoot Overview

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3. Prerequisites

OBAPI pre-requisite software should be installed and available before proceeding.

For OBAPI pre-requisite software setup refers document “**Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual**” .

Installer Pre-requisite verification

Post installation of OBAPI Installer prerequisite software’s, verification can be done using below steps.

Note: Verification should be performed on Server where Oracle Weblogic is locally installed and by OS user (which is owner for Oracle Weblogic home directory) for non-root steps. The same user will be used to execute installer.

Oracle Instant client

Step 1: Login using root user.

Step 2: Run below command to verify if Oracle Instant client is installed.

rpm -qa | grep oracle

```
bash-4.2# rpm -qa | grep oracle
oraclelinux-release-7.7-1.0.5.el7.x86_64
oracle-epel-release-el7-1.0-2.el7.x86_64
oracle-instantclient19.3-basic-19.3.0.0-1.x86_64
oraclelinux-release-el7-1.0-8.el7.x86_64
oracle-release-el7-1.0-2.el7.x86_64
bash-4.2#
```

Note: Above package verification command is specific to Oracle Linux and RHEL distributions only. For other Linux distributions or OS please refer to OS specific package manager documentation.

Python:

Step 1: Execute python -V command

python -V

```
[devops@ /]$ python -V
Python 2.7.5
```

Note: Ensure Python 2.7.5 supported version is installed. Above command should reflect the same.

cx_Oracle & Urwid:

Step 1: Execute python command

python

Note: Ensure Python 2.7.5 version should be available in PATH variable. Above execution should be done using Python 2.7.5.

Step 2: Import Urwid and check version

import urwid (Press Enter)

urwid.__version__

```
[ urwid-1.3.1]# python
Python 2.7.5 (default, May 8 2014, 17:35:19)
[GCC 4.8.2 20140120 (Red Hat 4.8.2-16)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import urwid
>>> urwid.__version__
'1.3.1'
```

If version is displayed, then Urwid is installed and available for use.

Note: Ensure Urwid 1.3.1 supported version is installed. Above command should reflect the same.

Step 3: Similarly import cx_Oracle and check version

import cx_Oracle (Press Enter)

cx_Oracle.version

```
[devops@ /]$ python
Python 2.7.5 (default, Apr 11 2018, 17:41:36)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-28.0.1)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import cx_Oracle
>>> cx_Oracle.version
'7.3.0'
```

If version is displayed, then cx_Oracle is installed and available for use.

Note: Ensure cx_Oracle 7.3.0 supported version is installed. Above command should reflect the same.

Python 3.8 for Linux Operating System: --

Step 1: Execute below commands to install the dependencies

yum -y groupinstall development

yum -y install zlib-devel

```

yum install openssl-devel -y

yum install zlib-devel bzip2-devel openssl-devel ncurses-devel sqlite-devel

yum install zlib-devel bzip2-devel openssl-devel ncurses-devel sqlite-devel -y

yum install python38-pip -y

yum install libreadline-gplv2-dev libncursesw5-dev libssl-dev libsqlite3-dev tk-dev      libgdbm-
dev libc6-dev libbz2-dev -y

yum install -y libffi-devel

yum install python36u-devel -y

yum install python38u-devel -y

yum install yum-utils -y

yum install epel-release -y

yum install python3.8-pip -y

yum install python3-pip -y

```

Note: In case wget is not installed , perform following step to install wget

```

yum install wget

#Download the python.tar.xz of the required version

wget https://www.python.org/ftp/python/3.8.0/Python-3.8.0.tar.xz

#Untar the Python tar file

tar xJf Python-3.8.0.tar.xz

#Navigate to the Python-<version> directory and run the below commands

cd Python-3.8.0

./configure

make

make install

```

Step 2: To install the Python3 compatible libraries to Python2.7 , configuration of pip needs to be done

```

cd /root

mkdir .pip

vi ~/.pip/pip.conf

```



```
[global]
trusted-host = pypi.python.org
               pypi.org
               files.pythonhosted.org
```

Step3: Give permission to pip.conf file and a soft link needs to be created.

Note: pip version 20.1.1

```
ln -s ~/.pip/pip.conf /etc/pip.conf
ls -lrt ~/.pip/pip.conf
chmod 777 /root/.pip/pip.conf
ls -lrt ~/.pip/pip.conf
pip3 list
pip3 install --upgrade pip
```

Step4: Once above steps are executed successfully install the following required modules.

```
pip3 install cx-Oracle==7.3.0
pip3 install urwid==2.1.0
```

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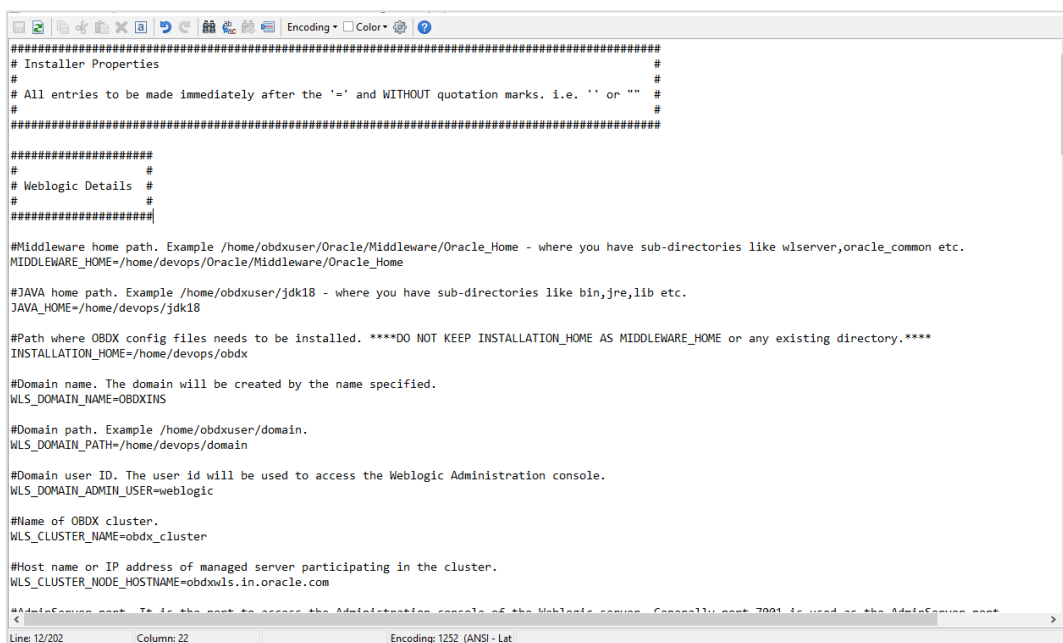
4. Installation

Pre-Installation

- Install all the prerequisite software and packages mentioned above

Steps of Installation

- Download and extract the installer zip file (Base).
- Navigate to “<OBAPI INSTALLER DIR>/core/config”
- Open the “installer.properties” file to maintain key configurations for BASE ENTITY (OBDX_BU)



```
#####
# Installer Properties
#
# All entries to be made immediately after the '=' and WITHOUT quotation marks. i.e. '' or ""
#
#####

#####
# Weblogic Details
#
#####

#Middleware home path. Example /home/obdxuser/Oracle/Middleware/Oracle_Home - where you have sub-directories like wlsuser,oracle_common etc.
MIDDLEWARE_HOME=/home/devops/Oracle/Middleware/Oracle_Home

#JAVA home path. Example /home/obdxuser/jdk18 - where you have sub-directories like bin,jre,lib etc.
JAVA_HOME=/home/devops/jdk18

#Path where OBDX config files needs to be installed. ****DO NOT KEEP INSTALLATION_HOME AS MIDDLEWARE_HOME or any existing directory.****
INSTALLATION_HOME=/home/devops/obdx

#Domain name. The domain will be created by the name specified.
WLS_DOMAIN_NAME=OBDXINS

#Domain path. Example /home/obdxuser/domain.
WLS_DOMAIN_PATH=/home/devops/domain

#Domain user ID. The user id will be used to access the Weblogic Administration console.
WLS_DOMAIN_ADMIN_USER=weblogic

#Name of OBDX cluster.
WLS_CLUSTER_NAME=obdx_cluster

#Host name or IP address of managed server participating in the cluster.
WLS_CLUSTER_NODE_HOSTNAME=obdxwls.in.oracle.com

**MetaServer port. It is the port to access the Administration console of the Weblogic domain. Conventionally port 7001 is used as the MetaServer port
<
Line: 12/202      Column: 22      Encoding: 1252 (ANSI - Lat
```

IMPORTANT:

- Enter the values right after the “=” sign
- DO NOT change anything to the left of the “=”
- DO NOT change any of the flag values or pre-filled values (such as **WLS_JDBC_DIGX_NAME**, **WLS_JDBC_DIGX_JNDI**, Flag values etc) available in “Factory Shipped” section.
- Ensure there is no blank space after “=” sign, except specific flavor specific configuration.
- Throughout this document consider UBS as UBS core banking with OBPM as payments engine.

Only below parameters should be set in installer.properties file.

Component	Parameter	Description	Example
DB details (for Weblogic RCU and OBAPI schema)	OBAPI_DATABASE_HOSTNAME	Enter the hostname of the database server which would host the database schema for OBAPI and Weblogic RCU	abc.xyc.com
	OBAPI_DATABASE_PORT	Enter the port number of the database listener	1521
	OBAPI_DATABASE_SID	Enter the Oracle Service Name for database instance	obapidb.in.oracle.com
	OBAPI_DATABASE_SYS_USER	Enter the username with 'sys' privileges	Sys
	POST_FIX	For OBAPI schema name like "OBAPI_DEV" POST FIX is 'DEV'. SHOULD BE IN UPPERCASE ONLY.	DEV
	OBAPI_DBA_DIRECTORY_NAME	Enter the directory name in which you want the OBAPI schema tablespace datafile to be created. Enter Logical name (i.e. DIRECTORY_NAME column) from DBA_DIRECTORIES table NOT the physical path.	OBAPI_DIR
	OBAPI_AUDIT_DBA_DIRECTORY_NAME	Enter the directory name in which you want the OBAPI AUDIT tablespace datafile to be created. Enter Logical name (i.e. DIRECTORY_NAME column) from DBA_DIRECTORIES table NOT the physical path.	OBAPI_AUDIT_DIR

Component	Parameter	Description	Example
EHMS DB details (to be configured only in-case of FLAVOR as UBS,FCORE &OBPM)	EHMS_DATABASE_HOSTNAME	Enter the hostname for EHMS database server	abc.xyz.com
	EHMS_DATABASE_PORT	Enter the port number of EHMS database listener	1521
	EHMS_SCHEMA_NAME	Enter the Complete OBAPI-EXT (B1A1) HostInterfaceschema name you want installer to create as new schema. SHOULD BE IN UPPERCASE ONLY.	EHMS182SCH EMA
	EHMS_DBA_DIRECTORY_NAME	Enter the directory name in which you want the OBAPI-EXT (B1A1) schema tablespace datafile to be created. Enter Logical name (i.e. DIRECTORY_NAME column) from DBA_DIRECTORIES table NOT the physical path.	OPATCH_LOG _DIR
	EHMS_DATABASE_SYS_USER	Enter the username with 'sys' privileges	Sys
	EHMS_DATABASE_SID	Enter the EHMS database Service Name	obapiehms.in.or acle.com
	EHMS_HOST_SCHEMA_NAME	Enter the EXISTING EHMS HOST schema name	OBAPIUBS
	EHMS_CCY(to be configured for UBS and OBPM HOST only)	Enter the Country code for EHMS HOME Branch	GB
	EHMS_HB (to be configured for UBS and OBPM HOST only)	Enter the Branch code for code for EHMS HOME Branch	AT3

	EHMS_FCORE_FCUBS_SCHEM A_NAME (to be configured for FCORE HOST only)	FCORE-FCUBS schema name	FCRUBSHOST
--	---	----------------------------	------------

Component	Parameter	Description	Example
Weblogic server details	MIDDLEWARE_HOME	Oracle Weblogic Middleware home path. Example /home/obapiuser/Oracle/Middleware/Oracle_Home - where you have sub-directories like wlsuser,oracle_common etc.	/home/obapiuser/Oracle/Middleware/Oracle_Home
	JAVA_HOME	Path where JAVA (JDK) is installed	/home/obapiuser/jdk18
	INSTALLATION_HOME	Path where OBAPI is to be installed. All configuration files will be copied as a sub-directory "config" under this directory. DO NOT KEEP INSTALLATION_HOME AS MiddlewareHome.	/home/obapiuser/obapi
	WLS_DOMAIN_PATH	Path where OBAPI Weblogic domain should be created. Users can now enter custom path as per their requirements.	/home/obapiuser/domains
	WLS_CLUSTER_NAME	Name of cluster; this cluster would have one single managed server.	obapi_cluster
	WLS_CLUSTER_NODE_HOSTNAME	Host name or IP address of managed server participating in the cluster. Currently only single node is supported.	abc.xyz.com
	WLS_ADMIN_SERVER_PORT	Weblogic AdminServer port. It is the port to access the administration console of the Weblogic server. Generally port 7001 is used as the AdminServer port. Custom port are supported.	7001
	WLS_ADMIN_SERVER_SSL_PORT	AdminServer SSL port. It is the port used to securely access (https) the administration console of the Weblogic server.	7002
	WLS_NODE_PORT	Node Manager Port. It is the port used by Node Manager to be configured for OBAPI domain.	5556

		Generally, 5556 is utilized as Node Manager Port. Custom ports are supported.	
	WLS_MS_SERVER_NAME	Managed server name. This will be the name of the managed server created in the cluster followed by indexes. eg- If this is set as 'clip' managed servers would be clip1.	clip
	WLS_MS_SERVER_PORT	Managed Server Port. Managed server will utilize this port for hosting OBAPI components and associated resources. Custom ports are supported.	9001
	WLS_DOMAIN_NAME	Enter Weblogic Domain name.	obapi_domain1
	WLS_DOMAIN_ADMIN_USER	Domain user ID. The user id will be used to access the Weblogic Administration console.	weblogic
	WLS_JMS_FILEUPLOAD_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the FileUpload JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/FileUpload
	WLS_JMS_AUDIT_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the Audit JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/Audit
	WLS_JMS_REPORT_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the Reports JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/Reports
	WLS_JMS_JPA_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the JPA JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/JPA

	WLS_JMS_EXTSYS RECEIVER_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the ExtSystemReceiver JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/Receiver
	WLS_JMS_EXTSYS SENDER_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the ExtSystemSender JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/Sender
RCU	OBAPI_RCU_STB_P REFIX	STB schema name prefix. If schema pre-fix is 'OBAPI' then 'OBAPI_STB' would be the STB schema name.	OBAPI_STB
OBAPI Application Administrator user details	OBAPI_ADMIN_USE RNAME	Set username for OBAPI application Admin user. USERNAME IS CASE SENSITIVE. In-case of OUD as provider username should be the User ID mentioned during user creation steps mentioned in pre-requisite document (refer To create User and mapping it to the Group section)	superadmin
	OBAPI_ADMIN_EM AIL	Enter the Email ID for OBAPI application admin user.	superadmin@o racle.com
	OBAPI_ADMIN_CO NTACT_NO	Enter the mobile number for OBAPI application admin user. COUNTRY CODE IS MUST.	+91123456789 0

Note: Apart from above any other property values should not be modified

Ensure ORACLE_HOME, JAVA_HOME variable are set and their binaries are available in PATH variable before proceeding.

Login with OS user which was used to perform OBAPI pre-requisite software installation (or has ownership on Oracle Weblogic home directory)

Ensure OBAPI Installation home and filestore path's maintained in installer.properties exists and user running the installer has read-write permissions.

Installation Steps:

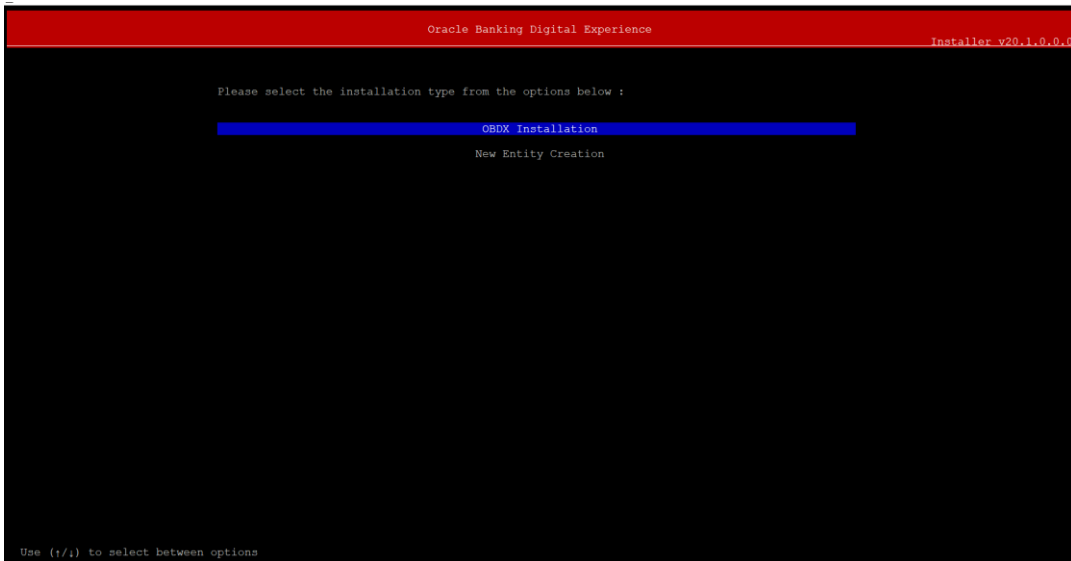
- From your terminal navigate to <OBAPI INSTALLER DIR>/

```
[ OBDX_Installer]$ pwd
/scratch/OPSFE/OBDX_Installer
[ OBDX_Installer]$ ls -ltr
Total 20
-rwxrwxrwx 1 54323 wheel 2569 Jun 28 12:04 runInstaller.py
drwxrwxrwx 12 54323 wheel 4096 Jun 28 12:04 installables
-rwxrwxrwx 1 54323 wheel  0 Jun 28 12:04 init__.py
drwxrwxrwx 5 54323 wheel 4096 Jun 29 13:15 core
drwxrwxrwx 5 54323 wheel 4096 Jun 29 13:15 framework
drwxrwxrwx 7 54323 wheel 4096 Jul  2 10:47 ExecInstances
[ OBDX_Installer]$
```

- Enter the following command

python runInstaller.py

Select the appropriate type of Installation



```
Oracle Banking Digital Experience
Installer v20.1.0.0.0

Please select the installation type from the options below :

OBDX Installation
New Entity Creation

Use (↑/↓) to select between options
```

- OBAPI Installation: This option should be used for first-time installation or for first entity only. Existing installation should not utilize this option unless performing “Reinstall” on already installed environment.
- New Entity Creation: This option should be used for multi-entity installation only.

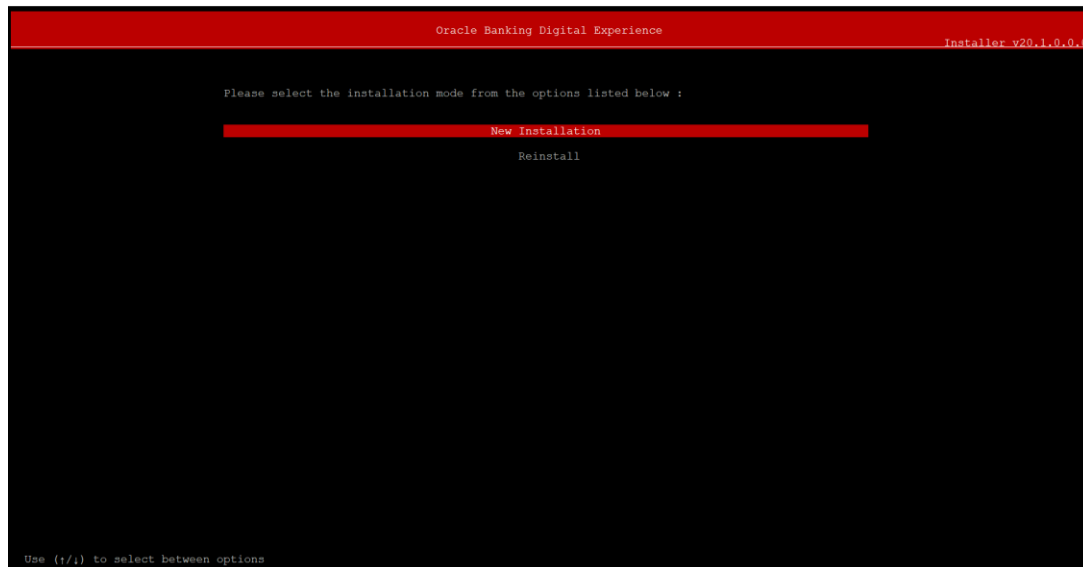
Post selection of installation type.

Select the appropriate host system for Installation



Oracle FLEXCUBE Universal Banking (OBAPI with UBS)

Select Installation mode



Mode of Installation - New Installation

- New installation

In-case of a fresh installation of OBAPI with appropriate host system for the first run on server.

Below screens would appear to taken end-user input

```

Oracle Banking Digital Experience                               Installer v20.1.0.0.0
>>*****
Valid.
Enter password for the STB schema 'UBSOBPM201_STB' :
>>*****
Valid.
Enter password for the weblogic domain user id 'weblogic' :
>>*****
Valid.
Enter the password for the user with sys privileges of OBPM database 'sys' :
>>*****
Valid.
Enter password for the OBPM schema 'COD144_IIR' (Existing) :
>>*****
Valid.
Enter password for the OBPM schema 'BIA1_UBSOBPM201' (new) :
>>*****
Valid.
Enter password for the Admin User 'superadmin' :
>>*****
Valid.
Use (!/;) keys to navigate between questions and press 'enter' after editing them
  
```

Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
- OBAPI schema password
- OBAPI STB schema password
- Weblogic console administrator user password
- SYS privilege user password where UBS host schema exists
- Existing UBS HOST schema password
- New OBAPI EHMS schema password
- Password for OBAPI application administrative user (In-case of OUD as provider, password should be similar to one used while user creation in OUD (or User Password field))

Third Party System (OBAPI with THP)

Post Third Party System selection, enter the required credentials details

```
Enter the password for the user with sys privileges 'sys' :
>>*****
Valid.
Enter password for the OBDX schema 'OBDX_INS' :
>>*****
Valid.
Enter password for the STB schema 'OBDXINS_STB' :
>>*****
Valid.
Enter password for the weblogic domain user id 'weblogic' :
>>*****
Valid.
Enter password for the Admin User 'superadmin' :
>>*****

Use (t/) keys to navigate between questions and press 'enter' after editing them
```

Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
 - OBAPI schema password
 - OBAPI STB schema password
 - Weblogic console administrator user password
- OBAPI application admin user password (In-case of OUD as provider, password should similar to one used while user creation in OUD (or User Password field))

Oracle FLEXCUBE Core Banking (OBAPI with FCORE)

Post Oracle FLEXCUBE Core Banking, enter the required credentials details

```

Oracle Banking Digital Experience
Installer v20.1.0.0.0

>>*****
Valid.
Enter password for the OBIX schema 'OBIX_OBIXFCR118' :
>>*****
Valid.
Enter password for the STB schema 'OBIXFCR118_STB' :
>>*****
Valid.
Enter password for the weblogic domain user id 'weblogic' :
>>*****
Valid.
Enter the password for the user with sys privileges of FCR database 'sys' :
>>*****
Valid.
Enter password for the FCORE schema 'BIA1_OBIXFCR201' (new) :
>>*****
Valid.
Enter password for the Admin User 'superadmin' :
>>*****
Valid.
Use (f/) keys to navigate between questions and press 'enter' after editing them
  
```

Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
- OBAPI schema password
- OBAPI STB schema password
- Weblogic console administrator user password
- SYS privilege user password where FCORE host schema exists
- New OBAPI EHMS schema password
- Password for OBAPI application administrative user (In-case of OUD as provider, password should be similar to one used while user creation in OUD (or User Password field))

Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM)

Enter the required credentials details

```

>>*****
Valid.
Enter password for the STB schema 'OBXINS_STB' :
>>*****
Valid.
Enter password for the weblogic domain user id 'weblogic' :
>>*****
Valid.
Enter the password for the user with sys privileges of OBPM database 'sys' :
>>*****
Valid.
Enter password for the OBPM schema 'OBPM143' (Existing) :
>>*****
Valid.
Enter password for the OBPM schema 'B1A1_FCORE' (new) :
>>*****
Valid.
Enter password for the Admin User 'superadmin' :
>>*****
Use (↑/↓) keys to navigate between questions and press 'enter' after editing them

```

Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
- OBAPI schema password
- OBAPI STB schema password
- Weblogic console administrator user password
- SYS privilege user password where OBPM host schema exists
- Existing OBPM HOST schema password
- New OBAPI EHMS schema password
- Password for OBAPI application administrative user (In-case of OUD as provider, password should be similar to one used while user creation in OUD (or User Password field))

Mode of Installation – Reinstall

```

Please select the installation mode from the
options listed below :

New Installation
Reinstall

Use (↑/↓) to select between options

```

In-case of an existing OBAPI installation that you want to overwrite OR in case of a previously failed installation user can opt for this option.

Pre-requisites

- Weblogic domain processes should be down (i.e. AdminServer, NodeManager, Managed Servers, Derby etc)
- No open session (user should not be logged-in) with OBAPI database schema (and OBAPI EHMS schema in-case of OBAPI UBS;OBPM and FCORE flavor) and RCU schema.

Over-write the policies files (Day0Policy.csv; Entitlement.csv; Resources.csv and Task.csv) from OBAPI Product zip into <OBAPI INSTALLER DIR>/installables/policies directory

Key pointers

- OBAPI schema (and OBAPI EHMS schema in-case of OBAPI UBS flavor) and RCU schema would be dropped and recreated (as per installer.properties). Tablespace would be re-used.
- Weblogic domain (as per installer.properties) would be deleted and created again.
- Installation Home would be cleaned up (all files/ sub-directories would be deleted) and re-created again.

Note: All input screens are similar to new installation option and as per the host system opted.

Installation Status

After selecting the mode and entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

```

Starting OBDM Database Installation with OBPM FLAVOR
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Role Created
Executing Grants...
Execution of clip_master_script.sql started
Execution of clip_master_script.sql completed
Execution of clip_constraints.sql started
Execution of clip_constraints.sql completed
Execution of clip_seeds_executable.sql started
Execution of clip_seeds_executable.sql completed
Execution of clip_master_generic_rest_script.sql started
Execution of clip_master_generic_rest_script.sql completed
SUCCESSFULLY installed OBDM database

Starting OBPM Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Role Created
Executing Grants...
Executing OBPM Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of uba_object_scripts.sql started
Execution of uba_object_scripts.sql completed
Execution of obpm_object_scripts.sql started
Execution of obpm_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
Execution of obpm-seeds.sql started
Execution of obpm-seeds.sql completed
SUCCESSFULLY installed OBPM database
Executed DIGX_FW_CONFIG_ALL_0.sql successfully
Executed DIGX_FW_CONFIG_ALL_1.sql successfully
Executed DIGX_FW_CONFIG_VAR_0.sql successfully

```

When the installation completes, the below message is displayed

```

installer/installables/app/components/obdx/deploy/obdx.app.core.domain.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:31:59 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.thirdparty.app.domain [archive: /scratch/obdx/
OBX_Installer/installables/app/components/obdx/deploy/obdx.thirdparty.app.domain.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:32:05 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.rest.idm [archive: /scratch/obdx/OBX_Inst
aller/installables/app/components/obdx/deploy/obdx.app.rest.idm.ear], to obdx_cluster .>
May 5, 2020 3:32:05 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, BatchResourceAdapter [archive: /scratch/obdx/OBX_I
nstaller/installables/app/components/obdx/deploy/BatchResourceAdapter.ear], to obdx_cluster .>
May 5, 2020 3:32:06 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, AuditMDBEAR [archive: /scratch/obdx/OBX_Installer/
installables/app/components/obdx/deploy/AuditMDBEAR.ear], to obdx_cluster .>
May 5, 2020 3:32:07 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, com.ofss.digx.app.connector [archive: /scratch/obdx
/OBX_Installer/installables/app/components/obdx/deploy/com.ofss.digx.app.connector.ear], to obdx_cluster .>
May 5, 2020 3:32:07 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.mdb.report [archive: /scratch/obdx/OBX_Insta
ller/installables/app/components/obdx/deploy/obdx.app.mdb.report.ear], to obdx_cluster .>
May 5, 2020 3:32:07 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.timer [archive: /scratch/obdx/OBX_Install
er/installables/app/components/obdx/deploy/obdx.app.timer.ear], to obdx_cluster .>
May 5, 2020 3:32:08 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.oauth [archive: /scratch/obdx/OBX_Install
er/installables/app/components/obdx/deploy/obdx.app.oauth.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:32:08 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.oauth.rest [archive: /scratch/obdx/OBX_Inst
aller/installables/app/components/obdx/deploy/obdx.app.oauth.rest.ear], to obdx_cluster .>
May 5, 2020 3:32:09 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.app.domain [archive: /scratch/obdx/OBX_Insta
ller/installables/app/cz/obdx.cz.app.domain.ear], to AdminServer obdx_cluster .>
May 5, 2020 3:32:09 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.extsystem.domain [archive: /scratch/obdx/OB
X_Installer/installables/app/cz/obdx.cz.extsystem.domain.ear], to AdminServer obdx_cluster .>
May 5, 2020 3:32:09 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.thirdparty.app.domain [archive: /scratch/ob
dx/OBX_Installer/installables/app/cz/obdx.cz.thirdparty.app.domain.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:32:10 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.soap [archive: /scratch/obdx/OBX_Installe
r/installables/app/components/obdx/deploy/obdx.app.soap.ear], to obdx_cluster .>
May 5, 2020 3:32:10 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, ExtXfaceSimulatorMDB [archive: /scratch/obdx/OBX_I
nstaller/installables/app/components/thp/deploy/ExtXfaceSimulatorMDB.ear], to obdx_cluster .>
Applications deployed successfully
Starting AdminServer
AdminServer started
Successfully created and configured OBDX2010UBS domain
May 5, 2020 3:33:55 PM GMT <Warning> <JNDI> <BEA-050001> <WLContext.close() was called in a different thread than the one in which it was created.>
Successfully configured jps-config.xml
Successfully Setup and Configured WEBLOGIC...
>>>> OBDX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<
devops@obdwls OBDX Installer]#

```

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5. Installation using Silent Mode

This chapter describes how to run the OBAPI installer in silent mode.

What is silent-mode installation?

During installation in silent mode, the installation program reads the details for your configuration parameters (flavor; mode; passwords etc) from the environment variables (same session in which installer is executed) and installer.properties that you set before beginning the installation. The installation program does not display any configuration options during the installation process.

Steps for Silent-Mode Installation

- Download and extract the installer zip file (Base – non localization version).
- Navigate to “<OBAPI INSTALLER DIR>/core/config”
- Open the “installer.properties” file to maintain key configurations for BASE ENTITY (OBDX_BU)
**Refer to page 9 to 14 (step 4) for filling up installer.properties.
- Set the environment variables , as shown below

```
export FLAVOUR=OBPM
export MODE=New
export DB_SYS_PASSWORD=welcome1
export SCHEMA_PASS=welcome1
export STBPassword=welcome1
export DomainPassword=welcome1
export EHMS_DATABASE_SYS_PASS=welcome1
export EHMS_HOST_SCHEMA_NAME_PASS=welcome1
export EHMS_SCHEMA_PASS=welcome1
export DBAuthPassword=welcome1
export LD_LIBRARY_PATH=/usr/lib/oracle/19.3/client64/lib/:$LD_LIBRARY_PATH
```

Below parameters should be set as environment variables, depending on the Host system the installer should be executed.

Host	Parameter	Description	Example
Environment variables to set for flavor:UBSFCORE	FLAVOUR	Flavour for installation UBS for Oracle FLEXCUBE Universal Banking 14.4.0.0.0 (OBAPI with UBS) FCORE for Oracle FLEXCUBE Core Banking 11.8.0.0.0 (OBAPI with FCORE)	export FLAVOUR=OBPM or export FLAVOUR=FCORE
	MODE	Mode of installation. 'New' in-case of a fresh installation of OBAPI for the first run on server 'Clean' in-case of an existing OBAPI installation that you want to overwrite OR in case of a previously failed installation or re-installation	export MODE=New or export MODE=Clean
	DB_SYS_PASSWORD	Sys user password of OBAPI database (Existing)	export DB_SYS_PASSWORD=obapi182sys
	SCHEMA_PASS	Password for new schema on OBAPI database	export SCHEMA_PASS=obapi#182
	STBPassword	Password for RCU STB schema	export STBPassword=obapi182#stb

	DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadm
	EHMS_DATABASE_SY S_PASS	Sys user password of EHMS HOST database (Existing)	export EHMS_DATABASE_SYS_PASS =obapiehmssys
	EHMS_HOST_SCHEM A_NAME_PASS ** Only required for UBS & OBPM Host. Ignore this parameter in-case of FCORE Host	Password of existing EHMS HOST schema (Existing)	export EHMS_HOST_SCHEMA_NAME _PASS =obapiehmshost
	EHMS_SCHEMA_PASS	Password for new OBAPI EHMS schema on EHMS HOST database	export EHMS_SCHEMA_PASS=obapi1 82ehms
	DBAuthPassword	Password for new OBAPI Administrator user of OBAPI application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obapiadm
	FLAVOUR	Flavour for installation 'OBAPI' for Third Party System 1.0 (OBAPI with THP)	export FLAVOUR=OBAPI
	Mode	Mode of installation. 'New' in-case of a fresh installation of OBAPI for the first run on server	export MODE=New or export MODE=Clean

Environment variables to set for flavor:		'Clean' in-case of an existing OBAPI installation that you want to overwrite OR in case of a previously failed installation or re-installation	
	DB_SYS_PASSWORD	Sys user password of OBAPI database (Existing)	export DB_SYS_PASSWORD=obapi182sys
	SCHEMA_PASS	Password for new schema on OBAPI database	export SCHEMA_PASS=obapi#182
	STBPassword	Password for RCU STB schema	export STBPassword=obapi#stb
	DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadm
	DBAuthPassword	Password for new OBAPI Administrator user of OBAPI application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obapiadm

Run the runInstaller.py file with '--silent' argument along with '--base' option

```
OBDX_Installer]$
OBDX_Installer]$ python runInstaller.py --silent --base
```

Installation Status

The status is displayed on the terminal to indicate the progress of the installation.

```
Starting OBDX Database Installation with OBPM FLAVOR
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Role Created
Recruiting Grants...
Execution of clip_master_script.sql started
Execution of clip_master_script.sql completed
Execution of clip_constraints.sql started
Execution of clip_constraints.sql completed
Execution of clip_seeds_executable.sql started
Execution of clip_seeds_executable.sql completed
Execution of clip_master_generic_rest_script.sql started
Execution of clip_master_generic_rest_script.sql completed
SUCCESSFULLY installed OBDX database

Starting OBPM Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Role Created
Recruiting Grants...
Recruiting OBPM Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of obs_object_scripts.sql started
Execution of obs_object_scripts.sql completed
Execution of obpm_object_scripts.sql started
Execution of obpm_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
Execution of obpm-seeds.sql started
Execution of obpm-seeds.sql completed
SUCCESSFULLY installed OBPM database
Executed DIGX_FW_CONFIG_ALL_0.sql successfully
Executed DIGX_FW_ABOUT_OBPM.sql successfully
Executed DIGX_FW_CONFIG_VAR_B.sql successfully
```

When the installation completes, the below message is displayed

```
Installer/installables/app/components/obdx/deploy/obdx.app.core.domain.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:32:05 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating Deploy operation for application, obdx.thirdparty.app.domain [archive: /scratch/obdx/
OBDX_Installer/installables/app/components/obdx/deploy/obdx.thirdparty.app.domain.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:32:05 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.rest.idm [archive: /scratch/obdx/OBDX_Inst
aller/installables/app/components/obdx/deploy/obdx.app.rest.idm.ear], to obdx_cluster .>
May 5, 2020 3:32:05 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, BatchResourceAdapter [archive: /scratch/obdx/OBDX_I
n
staller/installables/app/components/obdx/deploy/BatchResourceAdapter.ear], to obdx_cluster .>
May 5, 2020 3:32:06 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating Deploy operation for application, AuditMDEAR [archive: /scratch/obdx/OBDX_Installer/
installables/app/components/obdx/deploy/AuditMDEAR.ear], to obdx_cluster .>
May 5, 2020 3:32:07 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, com.ofss.digx.app.connector [archive: /scratch/obdx
/OBDX_Installer/installables/app/components/obdx/deploy/com.ofss.digx.app.connector.ear], to obdx_cluster .>
May 5, 2020 3:32:07 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.mdb.report [archive: /scratch/obdx/OBDX_Inst
aller/installables/app/components/obdx/deploy/obdx.app.mdb.report.ear], to obdx_cluster .>
May 5, 2020 3:32:07 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.timer [archive: /scratch/obdx/OBDX_Installe
r/installables/app/components/obdx/deploy/obdx.app.timer.ear], to obdx_cluster .>
May 5, 2020 3:32:08 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.oauth [archive: /scratch/obdx/OBDX_Installe
r/installables/app/components/obdx/deploy/obdx.app.oauth.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:32:08 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.oauth.rest [archive: /scratch/obdx/OBDX_Inst
aller/installables/app/components/obdx/deploy/obdx.app.oauth.rest.ear], to obdx_cluster .>
May 5, 2020 3:32:09 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.app.domain [archive: /scratch/obdx/OBDX_Inst
aller/installables/app/cz/obdx.cz.app.domain.ear], to AdminServer obdx_cluster .>
May 5, 2020 3:32:09 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.extsystem.domain [archive: /scratch/obdx/OB
DX_Installer/installables/app/cz/obdx.cz.extsystem.domain.ear], to AdminServer obdx_cluster .>
May 5, 2020 3:32:09 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating Deploy operation for application, obdx.cz.thirdparty.app.domain [archive: /scratch/ob
dx/OBDX_Installer/installables/app/cz/obdx.cz.thirdparty.app.domain.ear], to obdx_cluster AdminServer .>
May 5, 2020 3:32:10 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.soap [archive: /scratch/obdx/OBDX_Installe
r/installables/app/components/obs/deploy/obdx.app.soap.ear], to obdx_cluster .>
May 5, 2020 3:32:10 PM GMT <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, ExtxfaceSimulatorMDB [archive: /scratch/obdx/OBDX_I
n
staller/installables/app/components/thp/deploy/ExtxfaceSimulatorMDB.ear], to obdx_cluster .>
Applications deployed successfully
Starting AdminServer
AdminServer started
Successfully created and configured OBDX201UBS domain
May 5, 2020 3:33:55 PM GMT <Warning> <JNDI> <BEA-050001> <WLContext.close() was called in a different thread than the one in which it was created.>
Successfully configured jps-config.xml
Successfully Setup and Configured WEBLOGIC...
>>>> OBDX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<
[devops@obdxwls OBDX_Installer]$
```

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6. Installer Verification

Each execution creates a new directory as <DDMonthHHMM> under <OBAPI INSTALLER DIR>/ExecInstances directory where installer execution logs as described below are stored.

Log Description	PATH
Summarized Installer Activity Log	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/obapi_installer.log
Summarized Database Logs	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/DB_installation.log
Detailed OBAPI DB Logs per SQL file	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/OBAPI/*
Detailed EHMS schema Logs per SQL file (specific to EHMS host system only)	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/<EHMSHOST>/* <EHMSHOST> - values such as; FCORE; OBPM;; UBS
RCU Logs	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/app/obapi_stb_rcu_1600.log
Weblogic Configuration Logs	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/app/obapi_wls_post.log
Detailed OBAPI policy seeding logs	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/Entitlement.log <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/Task.log <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/Dashboard_seed.log Note: Check for SEVERE keyword; If found refer to Troubleshoot section to re-run the policy
Policy seeding execution Log	<OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/seedPolicies.log

	Note: Should be empty if no errors during policy execution. In-case non-empty refer to Troubleshoot section to re-run the policy
--	---

Check all the logs for any errors.

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7. Installer Scope

OBAPI Installer currently covers below activities:

Flavor: Third Party system (OBAPI with THP)

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
OBAPI with THP	OBAPI DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
		Policy Seeding	√	√
	Weblogic Setup and Configuration	RCU schema and Create Domain	√	√ (drop and re-create RCU schema's)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√
		Configure JDBC	√	√
		Configure DB Authenticator, JMS servers, Persistent stores and JMS Modules	√	√
		Application Deployment	√	√
		JTA	√	√
		Enable Production Mode	√	√
		Start AdminServer and NodeManager	√	√

	OBAPI Configuration	Copy config files into OBAPI Installation Home	√	√ (Delete old and copy new from installer zip)
--	---------------------	--	---	--

Flavor: Oracle FLEXCUBE Core Banking (OBAPI with FCORE)

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
OBAPI with FCORE	OBAPI DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
		Policy Seeding	√	√
	EHMS DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
	Weblogic Setup and Configuration	RCU schema and Create Domain	√	√ (drop and re-create RCU schema's)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√
		Configure JDBC	√	√

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Configure DB Authenticator, JMS servers, Persistent stores and JMS Modules	√	√
		Application Deployment	√	√
		JTA	√	√
		Enable Production Mode	√	√
		Start AdminServer and NodeManager	√	√
	OBAPI Configuration	Copy config files into OBAPI Installation Home	√	√ (Delete old and copy new from installer zip)

Flavor: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM)

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
OBAPI with OBPM (14.4.0.0.0 version)	OBAPI DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Execute OBPM HOST specific scripts	√	√
		Compile Schema	√	√
		Policy Seeding	√	√
	EHMS DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
	Weblogic Setup and Configuration	RCU schema and Create Domain	√	√ (drop and re-create RCU schema's)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√
		Configure JDBC	√	√
		Configure DB Authenticator, JMS servers, Persistent stores and JMS Modules	√	√

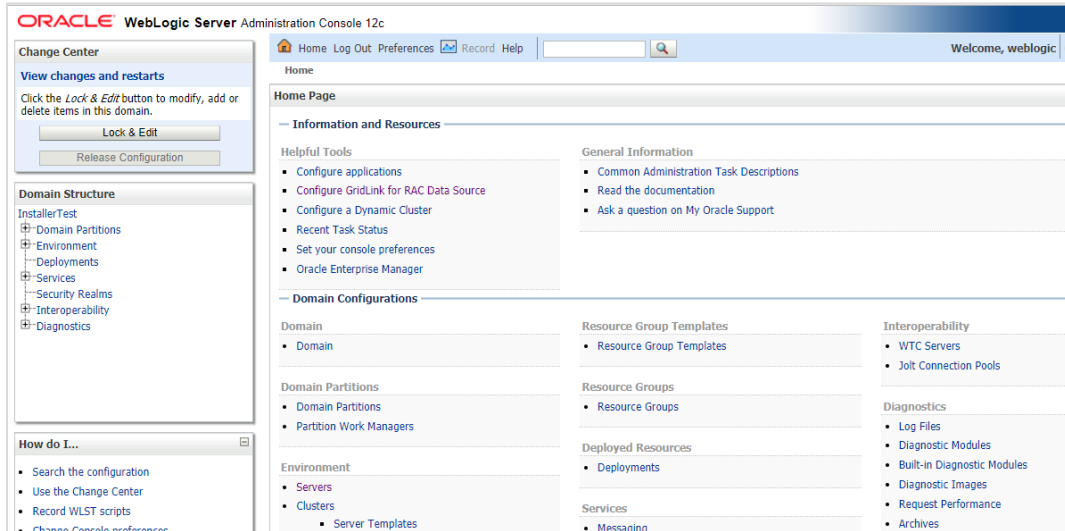
Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Application Deployment	√	√
		JTA	√	√
		Enable Production Mode	√	√
		Start AdminServer and NodeManager	√	√
	OBAPI Configuration	Copy config files into OBAPI Installation Home	√	√ (Delete old and copy new from installer zip)

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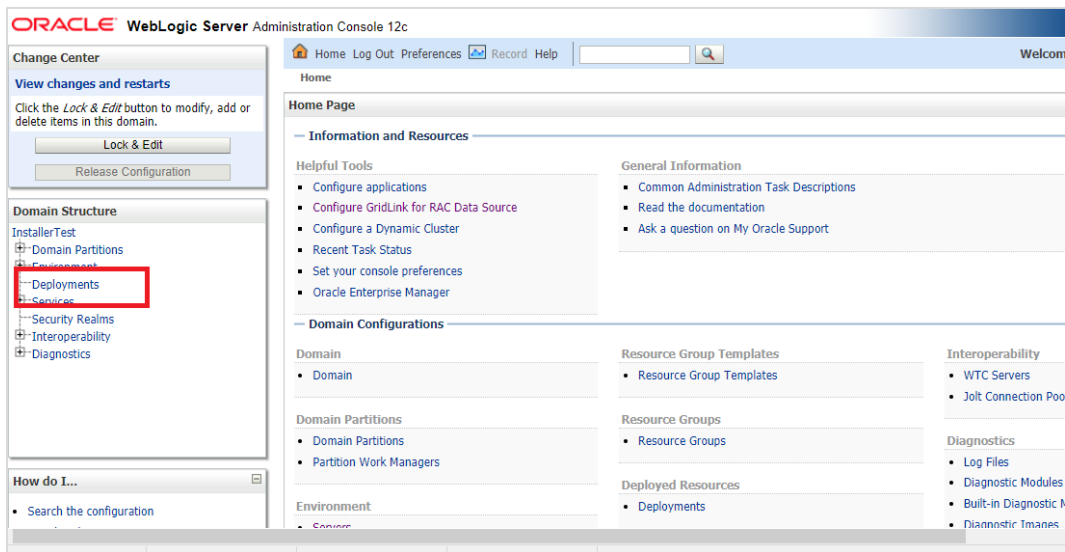
8. Post Installation Steps

Once Installation is successful and no errors are observed, proceed with below set of steps.

Login Weblogic Admin console.



In the left panel of the Console, Click on **Deployments**, A table in the right pane displays all deployed Enterprise Applications and Application Modules.



In the table, locate the **oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)** library to re-target and click on its name.

<input type="checkbox"/>	oracle.bi.jbips(11.1.1.0.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.dconfig-infra(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.jrf.system.filter	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.jsp.next(12.2.1,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.pwdgen(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.sdp_client(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.sdp.messaging(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.webcenter.composer(2.0,12.2.1)	Active		Library	AdminServer	Global		300
<input type="checkbox"/>	oracle.webcenter.skin(2.0,12.2.1)	Active		Library	AdminServer	Global		300
<input type="checkbox"/>	oracle.wsm.console.core.view(1.0,12.2.1.3)	Active		Library	AdminServer	Global		311
<input type="checkbox"/>	oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.wsm.seedpolicies(2.0,12.2.1.3)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	orai18n-adf(11,11.1.1.0.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	owasp.esapi(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	state-management-provider-memory-rar	Active	OK	Resource Adapter	AdminServer	Global		100
<input type="checkbox"/>	UIX(11,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	wsm-pm	New		Enterprise Application	obdx_cluster	Global		5

Click on **Lock & Edit**

The screenshot shows the Oracle WebLogic Server Administration Console interface. The breadcrumb trail is: Home > Summary of Environment > Summary of Deployments > oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3). The page title is "Settings for oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)". There are tabs for "Overview", "Targets", and "Notes". A "Lock & Edit" button is highlighted with a red box. Below the button, there is a "Release Configuration" button. The main content area contains instructions to click the "Lock & Edit" button to modify settings. Below this, there is a "Save" button and a description of the page's purpose. A configuration table is visible with the following data:

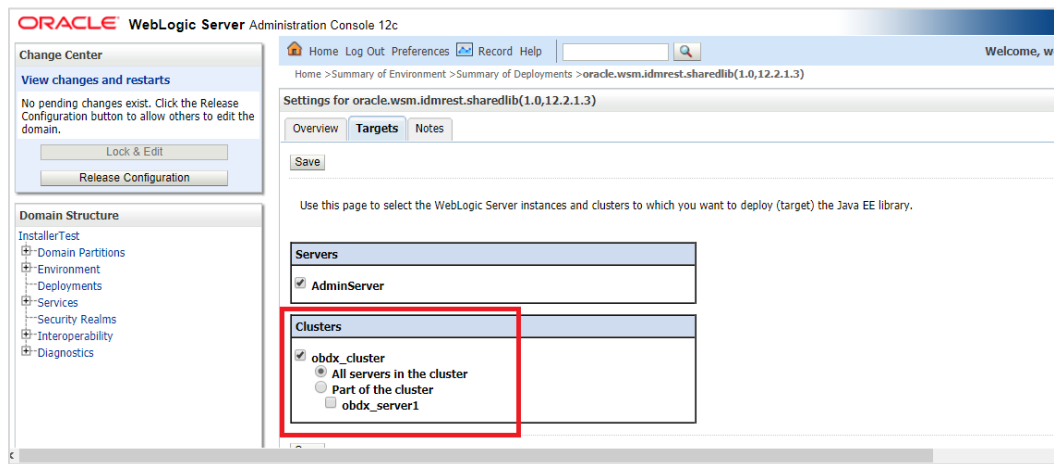
Name:	oracle.wsm.idmrest.sharedlib	The name of this Java EE library. More Info...
Scope:	Global	Specifies if this library is accessible within the domain resource group template. More Info...
Specification Version:	1.0	The specification version, specified from the manifest deployment. More Info...
Implementation Version:	12.2.1.3	The implementation version, specified from the manifest during deployment. More Info...

Click on **Targets** Tab

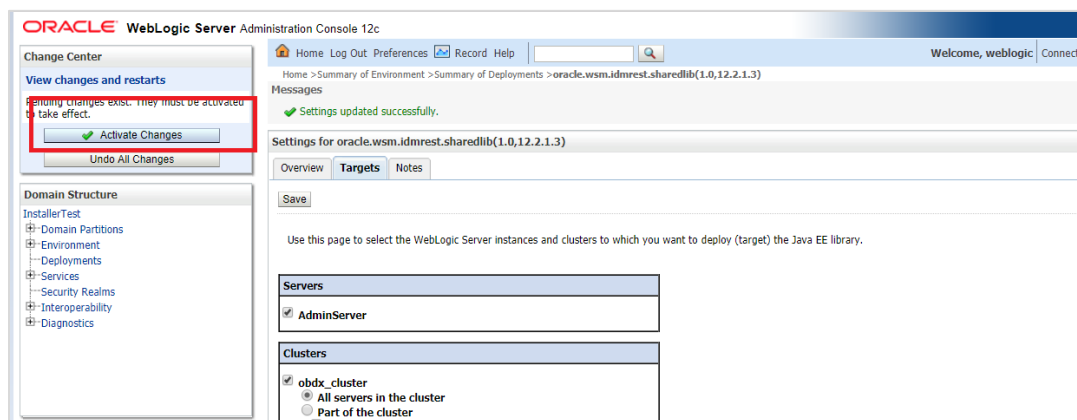
The screenshot shows the Oracle WebLogic Server Administration Console interface with the "Targets" tab selected and highlighted with a red box. The breadcrumb trail is: Home > Summary of Environment > Summary of Deployments > oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3). The page title is "Settings for oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)". There are tabs for "Overview", "Targets", and "Notes". The "Targets" tab is active. Below the tabs, there is a "Save" button and a "Targets Tab" button. The main content area contains instructions to use the page to view and edit general configuration information about the Java EE library. Below this, there is a configuration table with the following data:

Name:	oracle.wsm.idmrest.sharedlib	The name of this Java EE library. More Info...
Scope:	Global	Specifies if this library is accessible within the domain resource group template. More Info...
Specification Version:	1.0	The specification version, specified from the manifest deployment. More Info...
Implementation Version:	12.2.1.3	The implementation version, specified from the manifest during deployment. More Info...
Path:	/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/modules/oracle	The path to the source of the deployable unit.

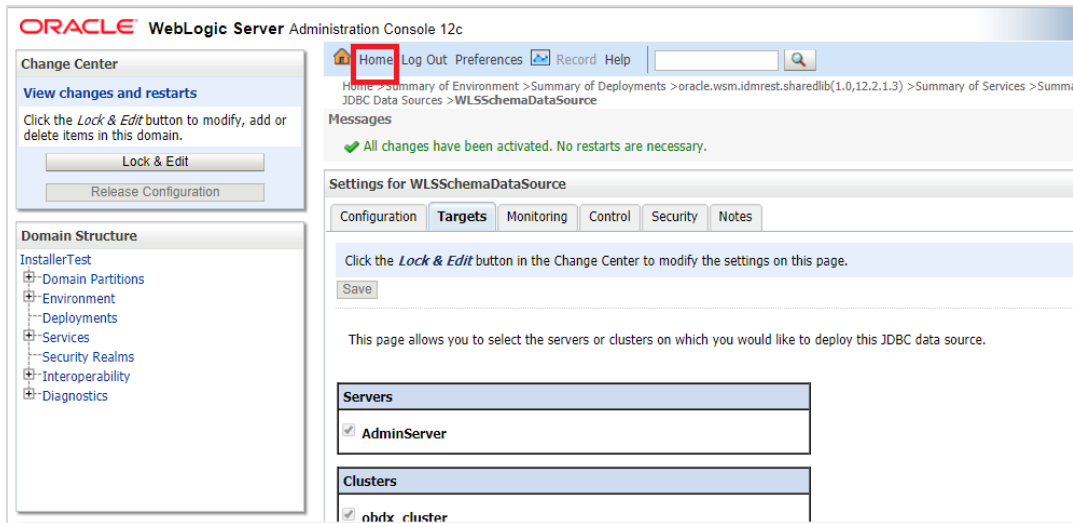
In the Servers box, select **Cluster** if it is not already selected and click **Save**.



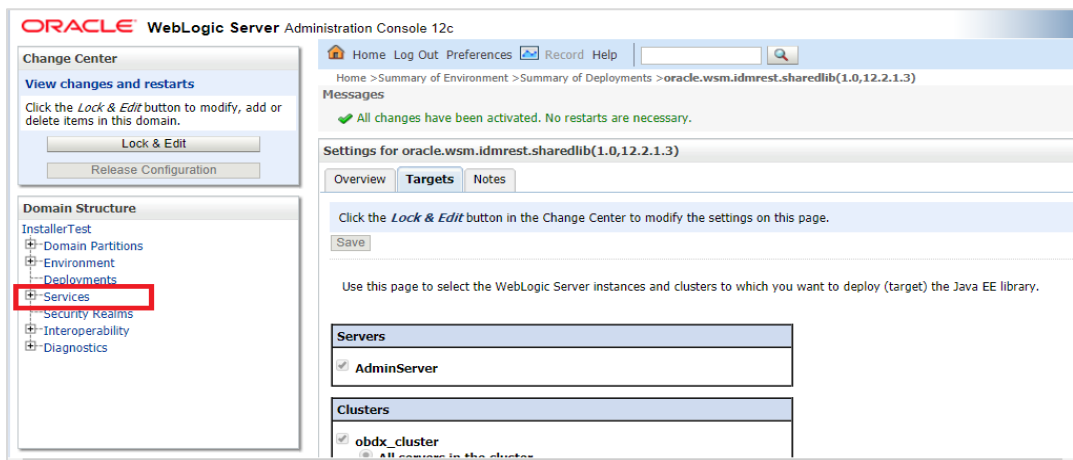
Click on **Activate Changes**.



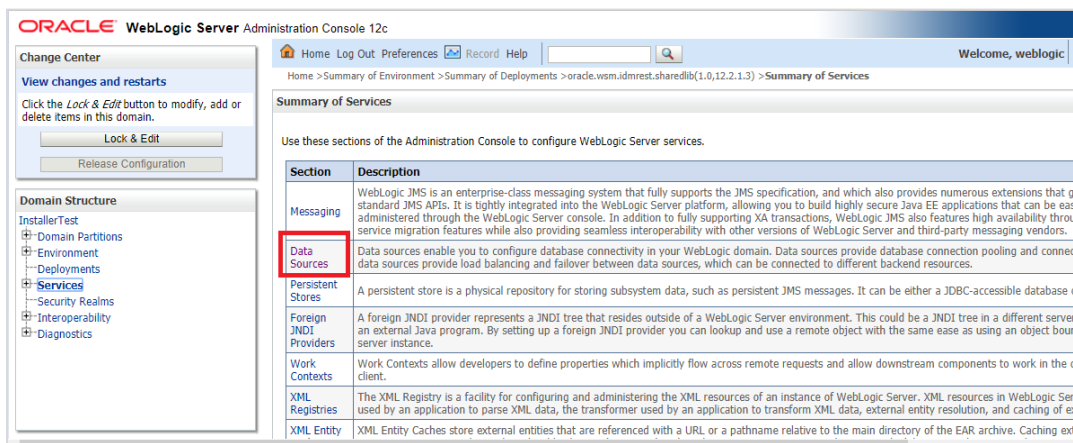
Click on **Home Tab**



In the left panel of the Console, Click on **Services**,



Click on **Data Sources**



Locate **WLSSchemaDataSource** to change target ,click on its name

Data Sources (Filtered - More Columns Exist)

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type	JNDI Name	Targets
BATCH	Generic	BATCH	obdx_cluster
DIGX	Generic	DIGX	obdx_cluster
LocalSvcTbIDataSource	Generic	jdbc/LocalSvcTbIDataSource	AdminServer
mids-owsm	Generic	jdbc/mids/owsm	AdminServer, obdx_cluster
NONXA	Generic	NONXA	obdx_cluster
opss-audit-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, obdx_cluster
opss-audit-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, obdx_cluster
opss-data-source	Generic	jdbc/OpssDataSource	AdminServer, obdx_cluster
WLSSchemaDataSource	Generic	jdbc/WLSSchemaDataSource	

Click on **Targets** Tab

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Environment > Summary of Deployments > oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3) > Summary of Services > Summary of JDBC D

Settings for WLSSchemaDataSource

Configuration **Targets** Monitoring Control Security Notes

General Connection **Targets- Tab** ONS Transaction Diagnostics Identity Options

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

Name: WLSSchemaDataSource

Datasource Type: GENERIC

Scope: Global

Click on **Lock & Edit**

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Environment > Summary of Deployments > oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3) > Summary of Services > Summary

Settings for WLSSchemaDataSource

Configuration **Targets** Monitoring Control Security Notes

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

This page allows you to select the servers or clusters on which you would like to deploy this JDBC data source.

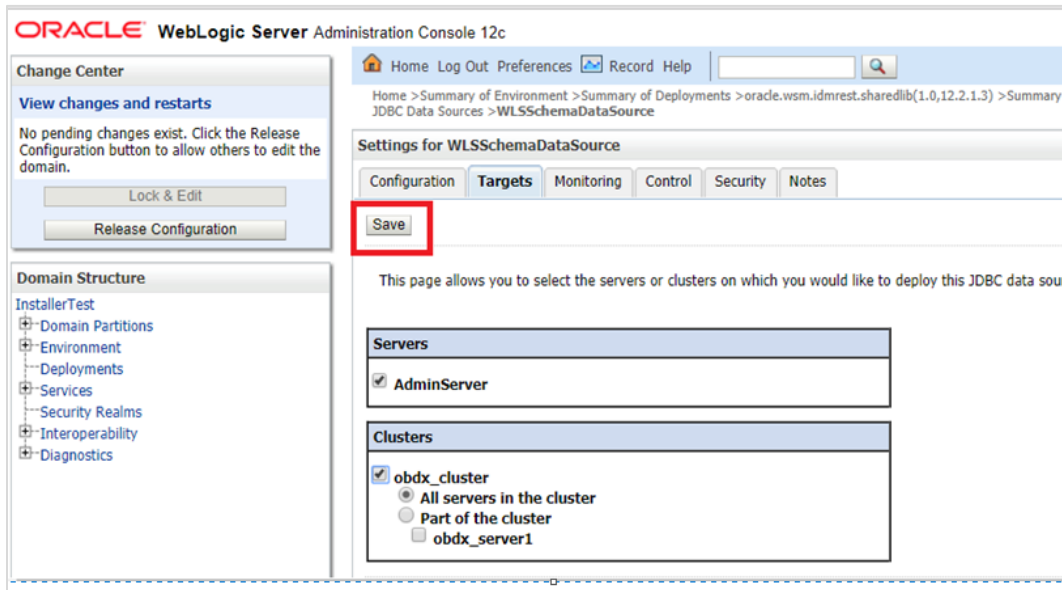
Servers

- AdminServer

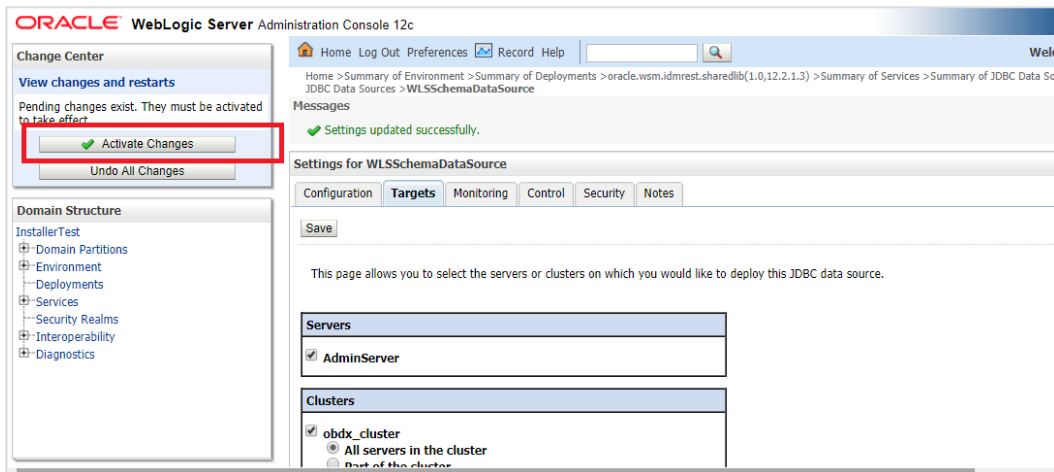
Clusters

- obdx_cluster
 - All servers in the cluster
 - Part of the cluster
 - obdx_server1

In the Servers Box, select **AdminServer** & **OBAPI Cluster** and Click on **Save**

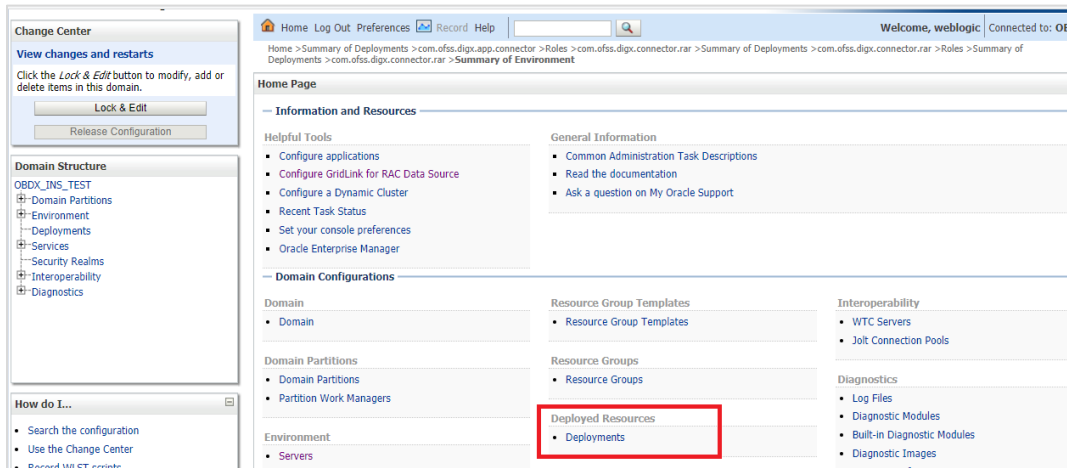


Click on **Activate Changes**



Outbound credential mappings

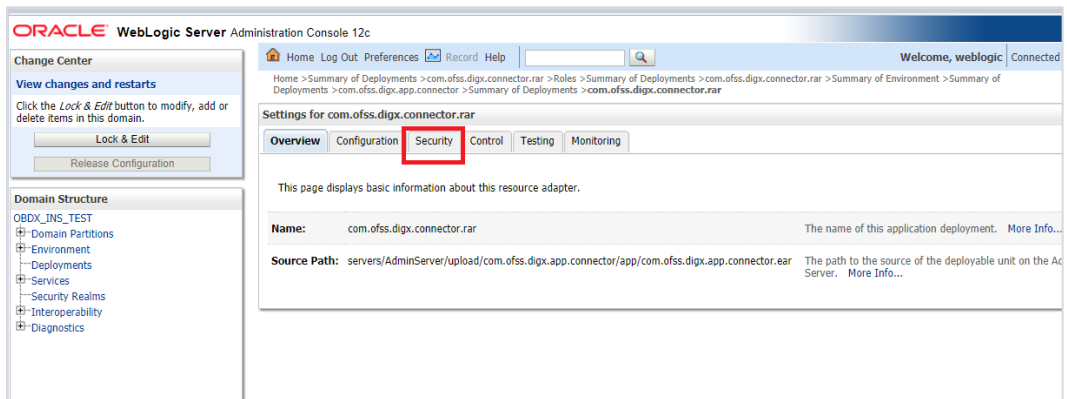
Login Weblogic Admin Console. Click on Deployments.



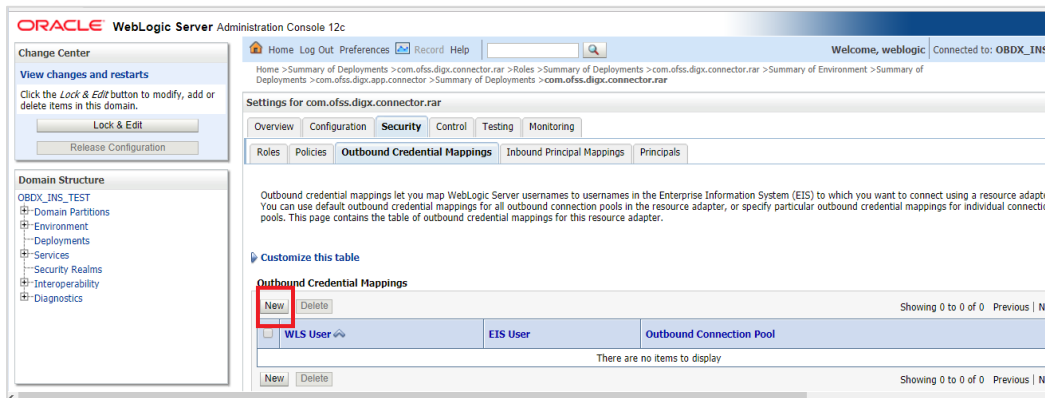
Click on com.ofss.digx.app.connector > com.ofss.digx.connector.rar



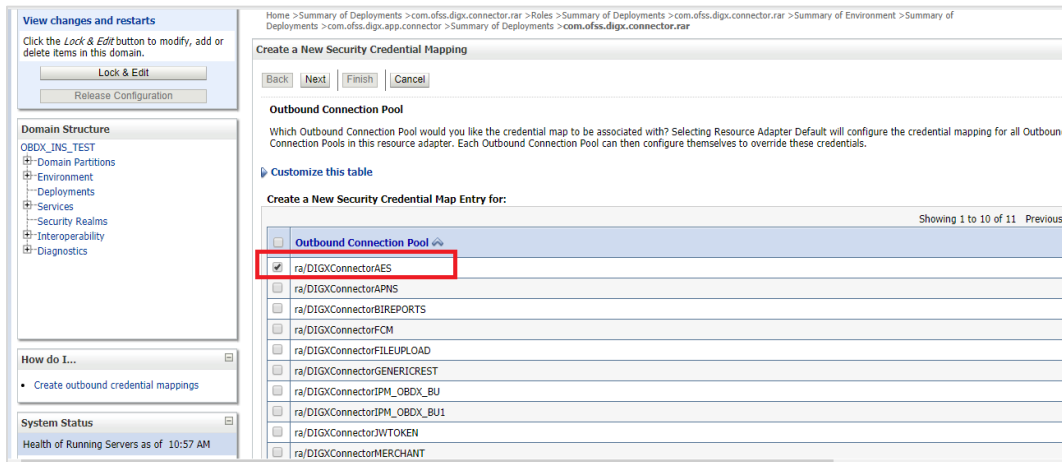
Click on **Security Tab** > **Outbound Credential Mappings**



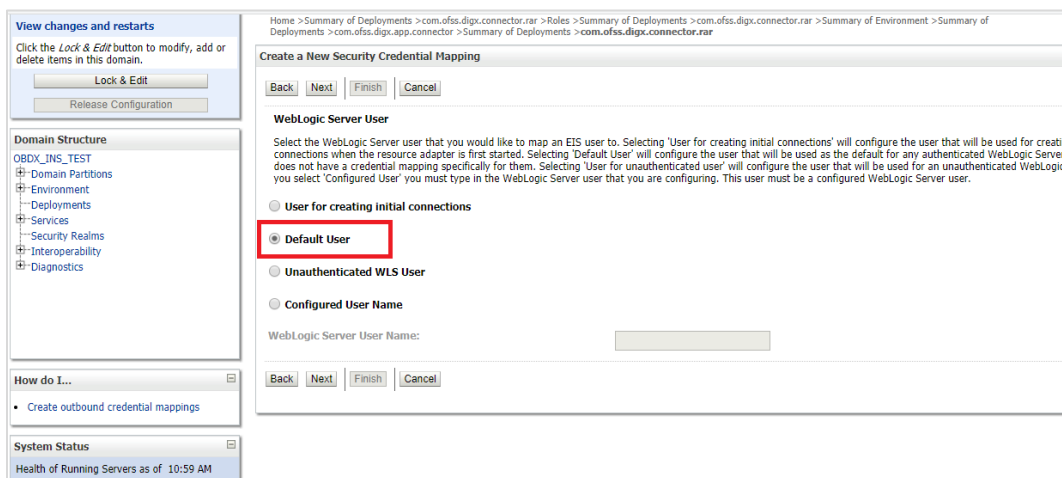
Click on **New**



Select **ra/DIGXConnectorAES** > **Next**



Select **"Default User"** > **Next**



Enter "EIS User Name" should be set to AES_KEY

Enter "EIS Password" . Password should be any 16 characters.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Create a New Security Credential Mapping' wizard. The current step is 'EIS User Name and Password', which includes instructions to configure the EIS User Name and Password. The input fields for 'EIS User Name' and 'EIS Password' are highlighted with a red rectangular box. The 'EIS User Name' field is currently empty, and the 'EIS Password' field is also empty. The 'Confirm Password' field is also empty. Navigation buttons 'Back', 'Next', 'Finish', and 'Cancel' are visible at the top and bottom of the wizard.

Click 'Finish'

This screenshot shows the same 'Create a New Security Credential Mapping' wizard, but now the 'Finish' button is highlighted with a red rectangular box. The 'EIS User Name' field contains the text 'AES_KEY'. The 'EIS Password' and 'Confirm Password' fields are filled with asterisks, indicating that the password has been entered. The 'Back', 'Next', 'Finish', and 'Cancel' buttons are visible at the top and bottom of the wizard.

Check AES_KEY mapping is created successfully.

The screenshot shows the 'Outbound Credential Mappings' table in the Oracle WebLogic Server Administration Console. The table has three columns: 'WLS User', 'EIS User', and 'Outbound Connection Pool'. There are two rows of data. The first row is 'WLS User' with an expandable icon. The second row is 'Default' with 'AES_KEY' in the 'EIS User' column and 'ra/DIGXConnectorAES' in the 'Outbound Connection Pool' column. There are 'New' and 'Delete' buttons above and below the table.

WLS User	EIS User	Outbound Connection Pool
WLS User		
Default	AES_KEY	ra/DIGXConnectorAES

Apply JRF Template

To apply JRF template follow below steps.

- To do this, ensure that the Admin Server is running. Login to the EM (Enterprise Manager) Console using the following URL:

http://<hostname>:<admin_port>/em

Note: EM console would be available on same hostname and port which was used for Weblogic Admin Console for OBAPI domain (created via installer), just replace the “/console” with “/em”.



SIGN IN TO
ORACLE ENTERPRISE MANAGER
FUSION MIDDLEWARE CONTROL 12c

Domain Domain_OBDX201UBS

* User Name

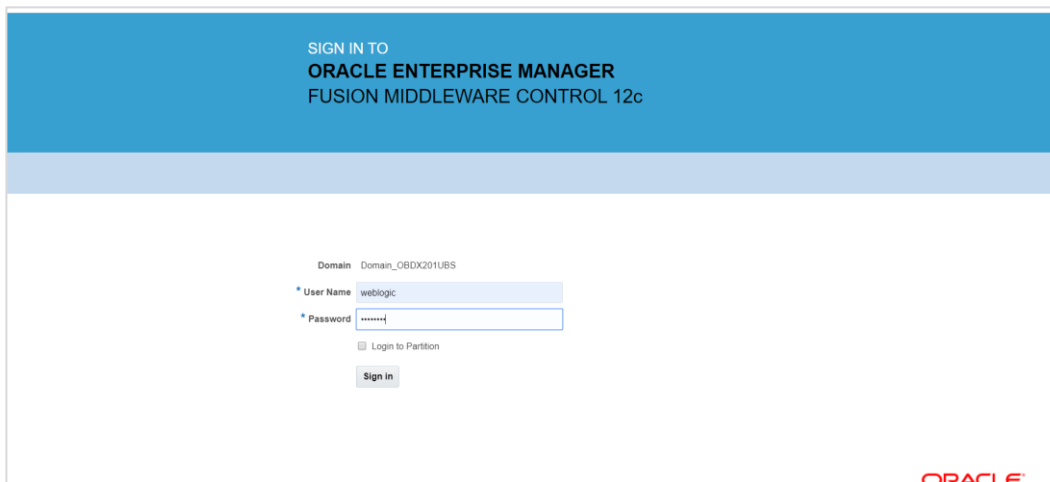
* Password

Login to Partition

Sign in

ORACLE

- Enter Weblogic administrator username and password (same used for Weblogic administrator console login)



SIGN IN TO
ORACLE ENTERPRISE MANAGER
FUSION MIDDLEWARE CONTROL 12c

Domain Domain_OBDX201UBS

* User Name weblogic

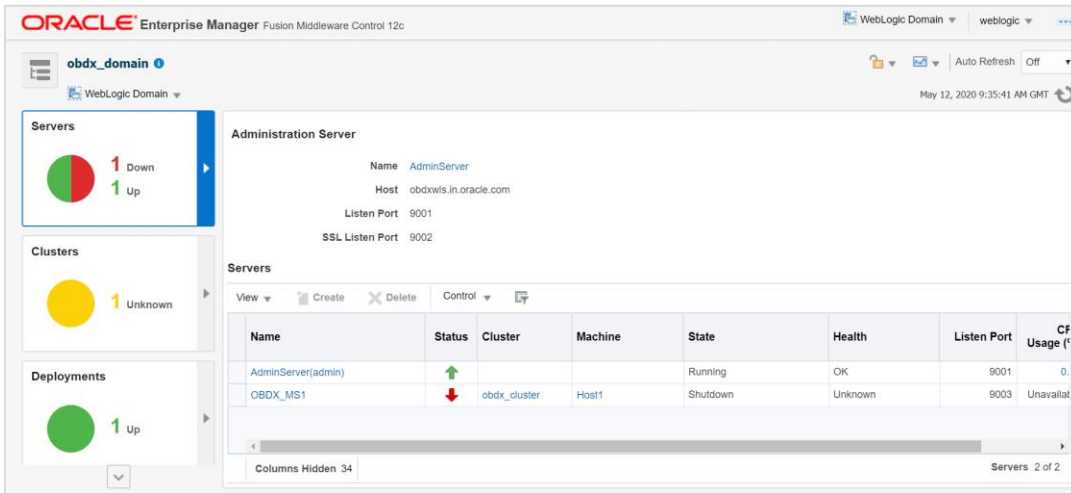
* Password

Login to Partition

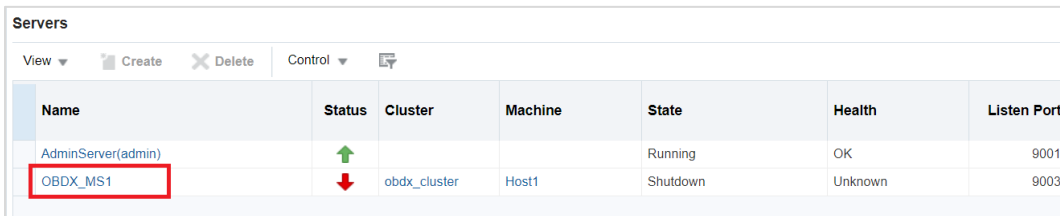
Sign in

ORACLE

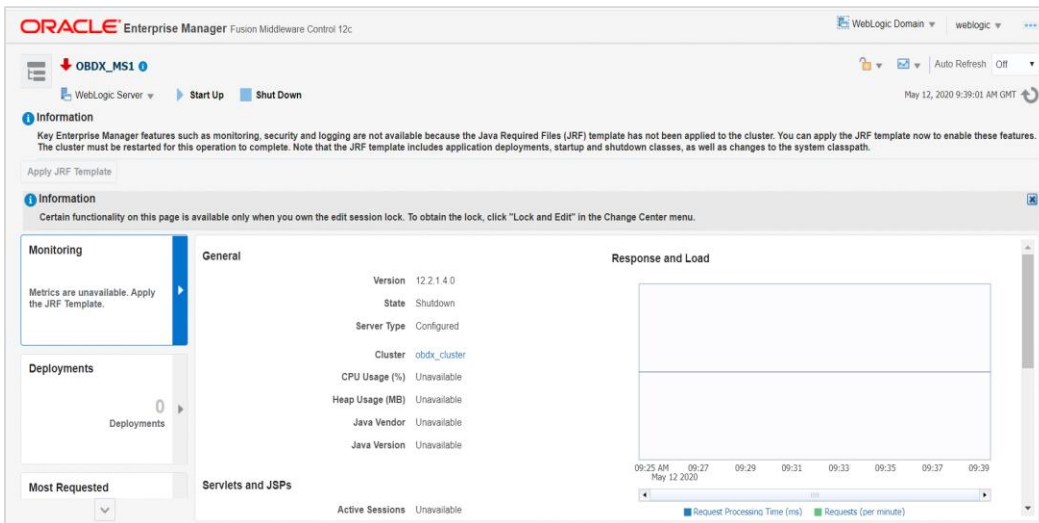
- Click on Sign In



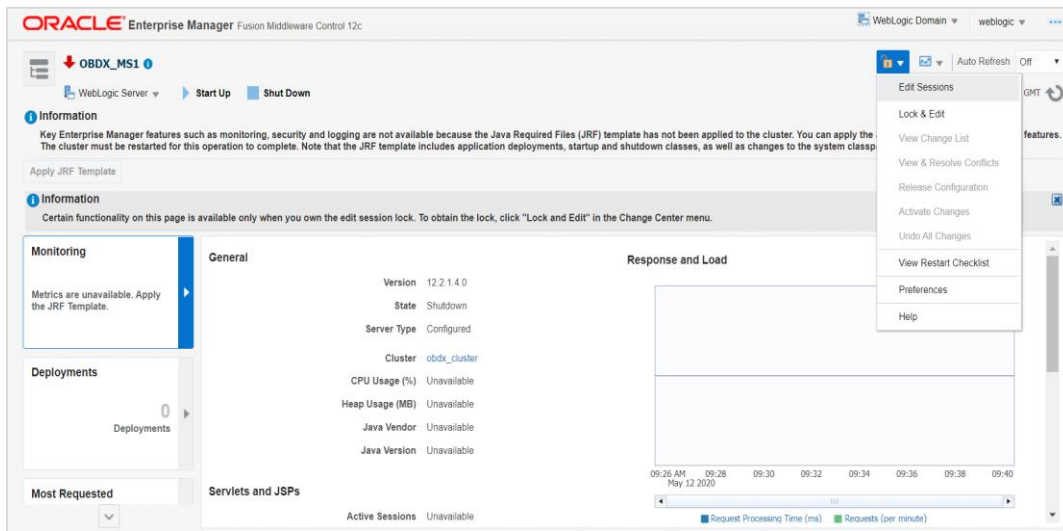
- Click on the Managed Server (as highlighted below)



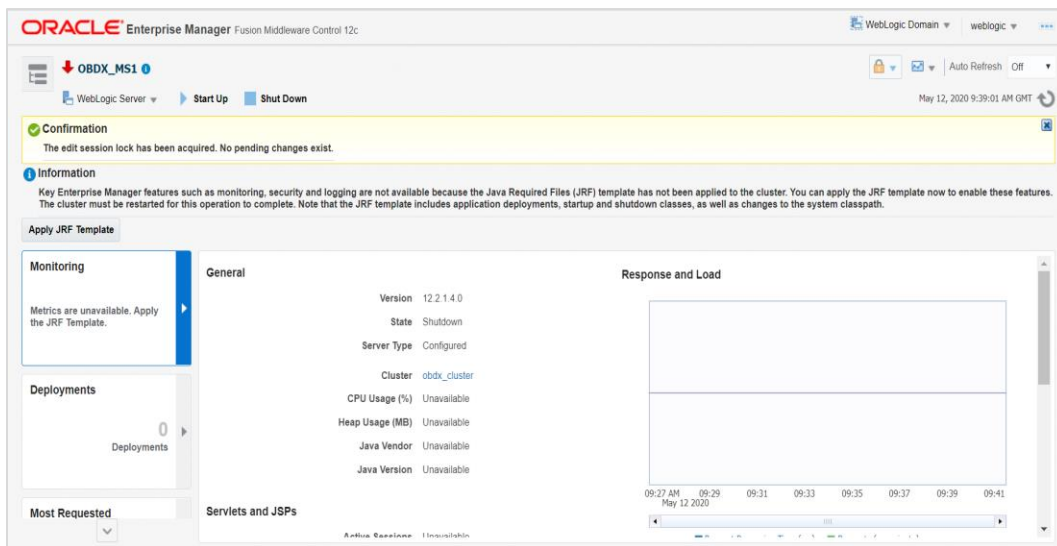
Note : Depending on installer.properties, Managed server will differ from above screenshot.



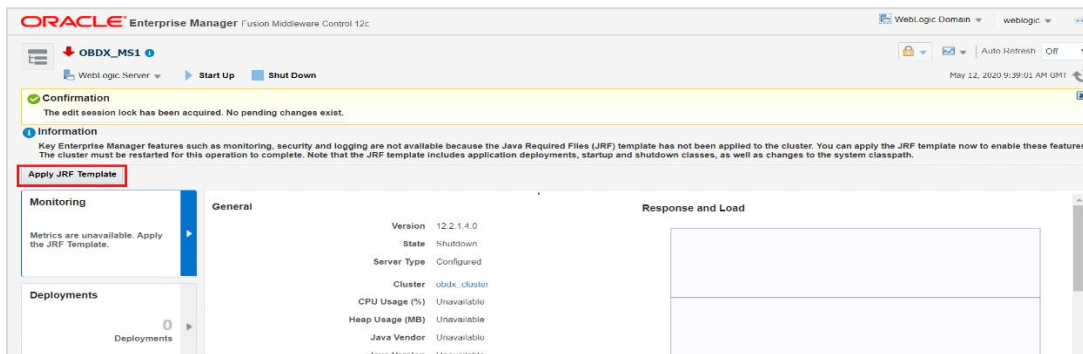
- Click on “Lock and Edit” option (as shown in screenshot).



You will see below screen stating the edit session confirmation



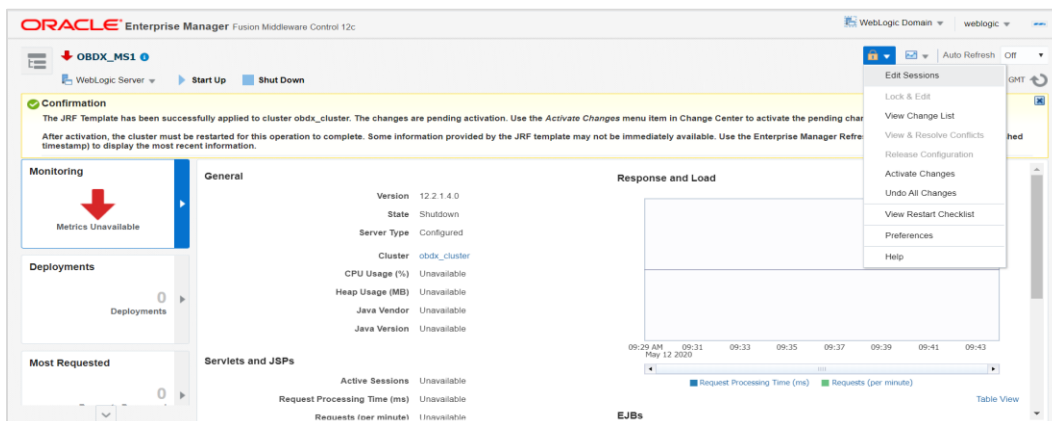
- Click on “Apply JRF Template” option (as shown in screenshot).



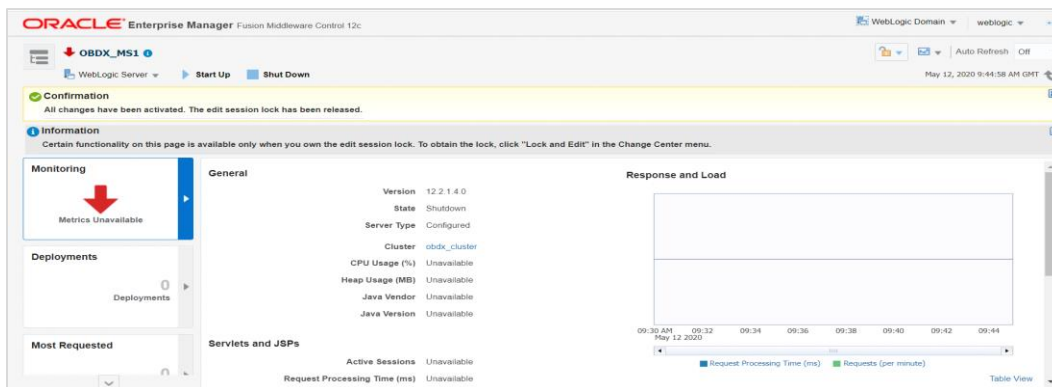
Is JRF successfully applied, you will get below Confirmation.



- Click on “Activates Changes” option (as shown in screenshot).



Post activation you will receive below Confirmation.



Configuring the Connector Credential Store

This step is required to setup the encryption key required for encryption of certain sensitive data within the OBAPI application.

For more information, refer the [Oracle Banking Digital Experience Connector Credential Store Guide.pdf](#)

Functionality / Module	OutBound Connection Pool Name
VAM	ra/DIGXConnectorOBVAM

Configure User Lockout attributes in Weblogic

The User Lockout attributes in Weblogic under Home>Security Realms>myrealm need to be in sync with the Password Policy Maintained in LDAP or DBAuthenticator. In case of DBAuthenticator it has to be in sync with Password Policy Maintenance in OBAPI.

Check for below values & change accordingly.

1] Lockout Threshold : It should be equal to Invalid attempts of Password Policy Maintenance.

2] Lockout Duration : It should be equal to property under prop_id "USER_LOCK_PERIOD" maintained in DIGX_FW_CONFIG_ALL_B table.

In case of OUD or other LDAP it needs to be sync with the Password Policy configured in LDAP. For e.g.: Refer to below values configured in OUD.

The screenshot shows the 'Lockout and History' configuration page. The 'Lockout Failure Count' is set to 5, and the 'Password Lockout Duration' is set to 20 days. The 'Lockout Soft Failure Count' is set to n.

Once the values are available, make appropriate change in respective highlighted configuration.

The screenshot shows the Oracle WebLogic Server Administration Console. The 'User Lockout' settings for 'myrealm' are displayed. The 'Lockout Threshold' is set to 5, and the 'Lockout Duration' is set to 30 minutes. Other settings include 'Lockout Enabled', 'Lockout Reset Duration', 'Lockout Cache Size', and 'Lockout GC Threshold'.

Save and Activate Changes

Restart AdminServer

OBAPI Application logging

To enable OBAPI activation logging make below change to logging.xml present at `${domain.home}/config/fmwconfig/servers/${ManagedServer}`.

```
[devops@ ~]$ cd /home/devops/domain/OBDX182_UBS140/config/fmwconfig/servers/OBDX_UBS141/
[devops@ OBDX_UBS141]$ ls -ltr
total 36
drwxr-x--- 2 devops devops 4096 Jul  4 06:33 diagnostics-registration
drwxr-x--- 2 devops devops 4096 Jul  4 06:33 mbeans
-rw-r----- 1 devops devops 2286 Jul  4 06:33 dms_config.xml
drwxr-x--- 2 devops devops 4096 Jul  4 06:33 dfw
-rw-r----- 1 devops devops 1796 Jul  4 06:33 dfw_config.xml
-rw-r----- 1 devops devops 11250 Jul  4 06:33 logging.xml
-rw-r----- 1 devops devops 109 Jul  4 06:35 loggers.exclude
[devops@ OBDX_UBS141]$
```

Open logging.xml and make a new entry under `<log_handlers>` tag using below code template:

```
<log_handler name='obapi-handler' level='<LOGLEVEL>'
class='oracle.core.ojdl.logging.ODLHandlerFactory'>

  <property name='path' value='<path for OBAPI log>/<OBAPI log filename>' />

  <property name='maxFileSize' value='<The maximum size in bytes for each log file>' />

  <property name='maxLogSize' value='<The maximum size in bytes for the entire log>' />

  <property name='encoding' value='<encoding>' />

  <property name='useThreadName' value='true' />

  <property name='supplementalAttributes' value='<supplementalAttributes>' />

</log_handler>
```

Below is a sample implementation for log_handlers file.

```
<log_handler name='obapi-handler' level='ERROR' class='oracle.core.ojdl.logging.ODLHandlerFactory'>

  <property name='path' value='${domain.home}/servers/${weblogic.Name}/logs/obapi.log' />

  <property name='maxFileSize' value='10485760' />

  <property name='maxLogSize' value='104857600' />

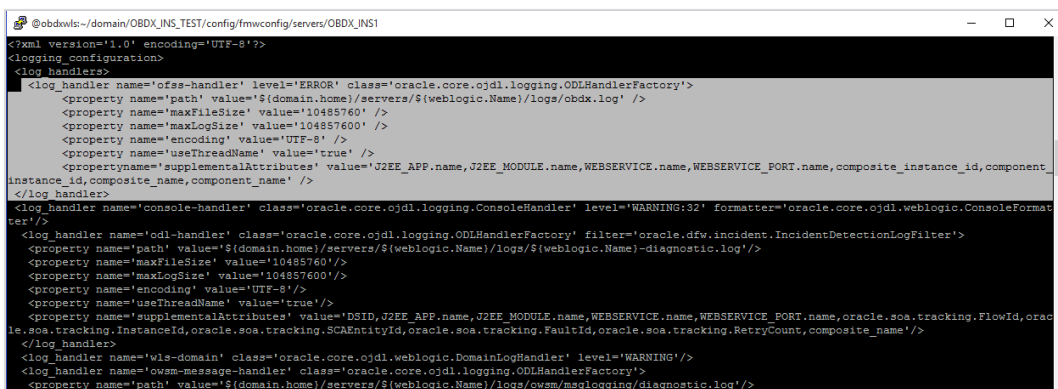
  <property name='encoding' value='UTF-8' />

  <property name='useThreadName' value='true' />

  <property name='supplementalAttributes'
value='J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_PORT.name,com
posite_instance_id,component_instance_id,composite_name,component_name' />

</log_handler>
```

```
</log_handler>
```



```
@obdwt:~/domain/OBDX_INS_TEST/config/fmwconfig/servers/OBDX_INS1
<?xml version='1.0' encoding='UTF-8'?>
<logging_configuration>
  <log_handlers>
    <log_handler name='ofss-handler' level='ERROR' class='oracle.core.ojdl.logging.ODLHandlerFactory'>
      <property name='path' value='${domain.home}/servers/${weblogic.Name}/logs/obdx.log' />
      <property name='maxFileSize' value='10485760' />
      <property name='maxLogSize' value='104857600' />
      <property name='encoding' value='UTF-8' />
      <property name='useThreadName' value='true' />
      <property name='supplementalAttributes' value='J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_PORT.name,composite_instance_id,component_instance_id,composite_name,component_name' />
    </log_handler>
    <log_handler name='console-handler' class='oracle.core.ojdl.logging.ConsoleHandler' level='WARNING:32' formatter='oracle.core.ojdl.weblogic.ConsoleFormatter' />
    <log_handler name='odl-handler' class='oracle.core.ojdl.logging.ODLHandlerFactory' filter='oracle.dfw.incident.IncidentDetectionLogFilter'>
      <property name='path' value='${domain.home}/servers/${weblogic.Name}/logs/${weblogic.Name}-diagnostic.log' />
      <property name='maxFileSize' value='10485760' />
      <property name='maxLogSize' value='104857600' />
      <property name='encoding' value='UTF-8' />
      <property name='useThreadName' value='true' />
      <property name='supplementalAttributes' value='DSID,J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_PORT.name,oracle.soa.tracking.FlowId,oracle.soa.tracking.InstanceId,oracle.soa.tracking.SCAEntityId,oracle.soa.tracking.FaultId,oracle.soa.tracking.RetryCount,composite_name' />
    </log_handler>
    <log_handler name='wis-domain' class='oracle.core.ojdl.weblogic.DomainLogHandler' level='WARNING' />
    <log_handler name='ovam-message-handler' class='oracle.core.ojdl.logging.ODLHandlerFactory'>
      <property name='path' value='${domain.home}/servers/${weblogic.Name}/logs/ovam/msglogging/diagnostic.log' />
  </log_handlers>
</logging_configuration>
```

Add loggers under <loggers> tag using below template:

```
<logger name='com.ofss' level='ERROR' useParentHandlers='false'>
```

```
  <handler name='obapi-handler' />
```

```
</logger>
```

```
<logger name='#BANKCODE#.com.ofss' level='ERROR' useParentHandlers='false'>
```

```
  <handler name='obapi-handler' />
```

```
</logger>
```

Note: Replace the #BANKCODE# with bank code.

Below is a sample implementation for loggers file

```
<logger name='com.ofss' level='ERROR' useParentHandlers='false'>
```

```
  <handler name='obapi-handler' />
```

```
</logger>
```

```
<logger name='000.com.ofss' level='ERROR' useParentHandlers='false'>
```

```
  <handler name='obapi-handler' />
```

```
</logger>
```

```

@obdxwls~/domain/OBDX_INS_TEST/config/fmwconfig/servers/OBDX_INS1
</log_handler>
</log_handlers>
<!--
<logger name='com.ofss' level='ERROR' useParentHandlers='false'>
  <handler name='ofss-handler' />
</logger>
<logger name='000.com.ofss' level='ERROR' useParentHandlers='false'>
  <handler name='ofss-handler' />
</logger>
<!--
<logger name='' level='WARNING:1' useParentHandlers='true'>
  <handler name='odl-handler' />
  <handler name='wls-domain' />
  <handler name='console-handler' />
</logger>
<!--
<logger name='oracle' level='NOTIFICATION:1' useParentHandlers='true' />
<logger name='oracle.adf' useParentHandlers='true' />
<logger name='oracle.adf.desktopintegration' useParentHandlers='true' />
<logger name='oracle.adf.faces' useParentHandlers='true' />
<logger name='oracle.adf.controller' useParentHandlers='true' />
<logger name='oracle.adfinternal' useParentHandlers='true' />
<logger name='oracle.adfinternal.controller' useParentHandlers='true' />
<logger name='oracle.jbo' useParentHandlers='true' />
<logger name='oracle.adfint' useParentHandlers='true' />
<logger name='oracle.adfinternal' useParentHandlers='true' />
<logger name='oracle.wsm' useParentHandlers='true' />
<logger name='oracle.wsm.mdg.logging' level='NOTIFICATION:1' useParentHandlers='false'>

```

Eclipselink logging

To modify eclipselink logging make changes in <INSTALLATION_HOME>\config\META-INF\persistence.xml using below link :

<https://wiki.eclipse.org/EclipseLink/Examples/JPA/Logging>

```

@obdxwls~/obdx/config/META-INF
[
META-INF]$
[
META-INF]$ pwd
/home/devops/obdx/config/META-INF

```

```

@obdxwls~/obdx/config/META-INF
META-INF]$ cat persistence.xml
<?xml version='1.0' encoding='UTF-8' standalone='no'?>
<persistence xmlns='http://java.sun.com/xml/ns/persistence' xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance' version='2.0' xsi:schemaLocation='http://java.sun.com/xml/ns/persistence http://java.sun.com/xml/ns/persistence/persistence_2_0.xsd'>
  <persistence-unit name='DIGX' transaction-type='JTA'>
    <jta-data-source>DIGX</jta-data-source>
    <mapping-file>META-INF/generic-mapping.ora.xml</mapping-file>
    <properties>
      <property name='eclipselink.logging.level' value='WARNING' />
      <property name='eclipselink.logging.file' value='jpa-eclipselink.log' />
      <property name='eclipselink.jdbc.connector' value='com.ofss.fc.infra.das.ora.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.ofss.digx.infra.das.ora.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
  <persistence-unit name='BATCH' transaction-type='RESOURCE_LOCAL'>
    <mapping-file>META-INF/generic-mapping.ora.xml</mapping-file>
    <properties>
      <property name='eclipselink.logging.level' value='WARNING' />
      <property name='eclipselink.logging.file' value='jpa-eclipselink-batch.log' />
      <property name='eclipselink.jdbc.connector' value='com.ofss.fc.infra.das.ora.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.ofss.digx.infra.das.ora.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
  <persistence-unit name='NONXA' transaction-type='RESOURCE_LOCAL'>
    <non-jta-data-source>NONXA</non-jta-data-source>
    <mapping-file>META-INF/generic-mapping.ora.xml</mapping-file>
    <properties>
      <property name='eclipselink.logging.level' value='WARNING' />
      <property name='eclipselink.logging.file' value='jpa-eclipselink-nomxa.log' />
      <property name='eclipselink.jdbc.connector' value='com.ofss.fc.infra.das.ora.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.ofss.digx.infra.das.ora.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
</persistence>
META-INF]$

```

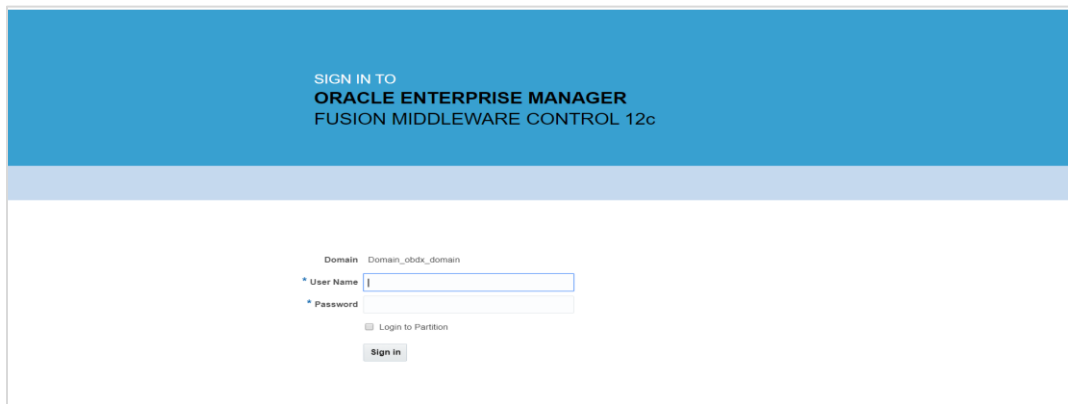
Change logging level during runtime

To change OBAPI application logging level at runtime (when OBAPI application is up and running) do following steps.

To do this, ensure that the Admin Server is running. Login to the EM (Enterprise Manager) Console using the following URL:

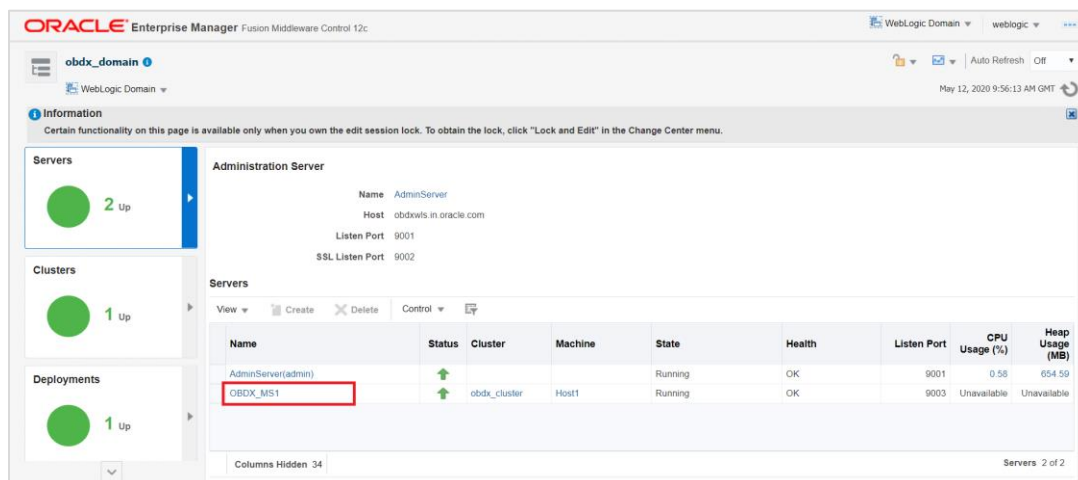
http://<hostname>:<admin_port>/em

Note: EM console would be available on same hostname and port which was used for Weblogic Admin Console for OBAPI domain (created via installer), just replace the “/console” with “/em”.



- Click on OBAPI_MS1

Note : Depending on installer.properties, Managed server will differ from above screenshot.



- In Weblogic Domain menu click on Logs -> Logs Configurations
- Select the logger and change the logging level and then click on apply.

ORACLE Enterprise Manager Fusion Middleware Control 12c

obdx-server WebLogic Server Start Up Shut Down

/Domain_base_domain/base_domain/obdx-server > Log Configuration

View Runtime Loggers

Search All Categories

Logger Name	Oracle Diagnostic Logging Level (Java Level)	Log File	Persistent Log Level State
Root Logger	ERROR:1 (SEVERE)	ofss-handler	ERROR:1
000	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
08	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
08.com.ofss	ERROR:1 (SEVERE)	ofss-handler	ERROR:1
ExampleApplication:Encoder	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
LifeCycle	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
Security	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
ServiceLoader	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
com	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
global	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
io	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
javax	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
jersey	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
jmx:fmw	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
oracle	NOTIFICATION:1 (INFO)	ofss-handler	NOTIFICATION:1
org	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	

Note : Logger name should be defined in logging.xml.

Oracle FLEXCUBE Universal Banking (OBAPI with UBS)

If during installer execution Oracle FLEXCUBE Universal Banking (OBAPI with UBS) is selected, then below steps needs to be done manually.

Foreign Server

- Login into Weblogic Admin console (OBAPI domain created using installer) and Browse to Summary of JMS Modules > UBSSystemModule (as shown below)

Summary of JMS Modules

JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed destinations, and foreign servers. This page summarizes the JMS system modules that have been created for this domain.

[Customize this table](#)

JMS Modules (Filtered - More Columns Exist)

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete

<input type="checkbox"/>	Name ↕	Type
<input type="checkbox"/>	AuditJMS	JMSSystemResource
<input type="checkbox"/>	FileUploadJMS	JMSSystemResource
<input type="checkbox"/>	ReportsJMSModule	JMSSystemResource
<input type="checkbox"/>	UBSSystemModule	JMSSystemResource

New Delete

Settings for UBSSystemModule

Configuration Subdeployments Targets Security Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: UBSSystemModule The name of this JMS system module. [More Info...](#)

Scope: Global Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template.

Descriptor File Name: jms/ubssystemmodule-jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

[Customize this table](#)

Summary of Resources

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete Showing 1 to 1 of 1

<input type="checkbox"/>	Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	UBSForeignServer	Foreign Server	N/A	UBSSubdeployment	obdx_cluster

New Delete Showing 1 to 1 of 1

- Click on UBSForeignServer

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

Save

A foreign server represents a JNDI provider that resides outside a WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a number of foreign server.

Name: UBSForeignServer

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte:

JNDI Connection URL: t3://<EHMS_WLS_SERVER>:<EHMS_WLS_SERVER_PORT>/

JNDI Properties Credential:

Confirm JNDI Properties Credential:

JNDI Properties:

```
java.naming.security.principal=
<EHMS_WLS_USERNAME>
```

- Click on Lock & Edit

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Save

A foreign server represents a JNDI provider that resides outside a WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a number of foreign server.

Name: UBSForeignServer

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte:

JNDI Connection URL: t3://<EHMS_WLS_SERVER>:<EHMS_WLS_SERVER_PORT>/

JNDI Properties Credential:

Confirm JNDI Properties Credential:

JNDI Properties:

```
java.naming.security.principal=
<EHMS_WLS_USERNAME>
```

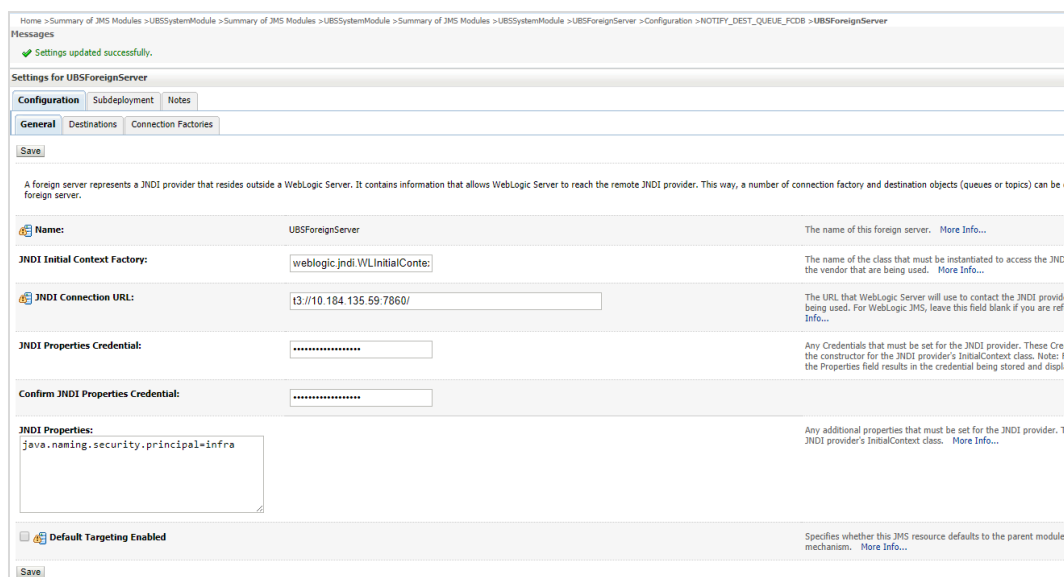
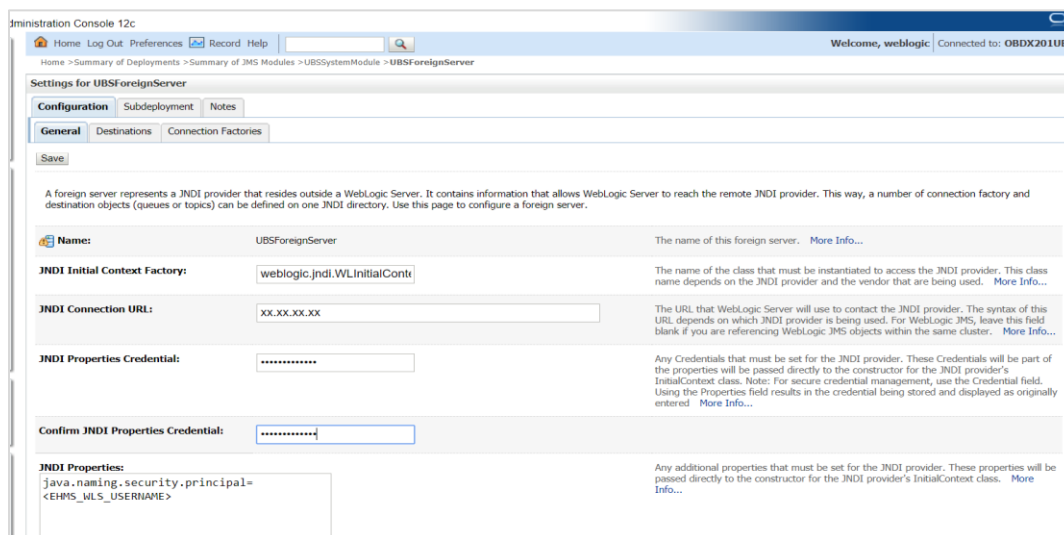
Set below configurations with:

- JNDI Connection URL** – Replace <EHMS_WLS_SERVER> with hostname or IP address of UBS HOST Weblogic server and <EHMS_WLS_SERVER_PORT> with port number of UBS HOST Weblogic Managed server (where NOTIFY_DEST_QUEUE and NOTIFY_DEST_QUEUE_FCDB are mapped).
- JNDI Properties Credential** – Password for username set in JNDI properties

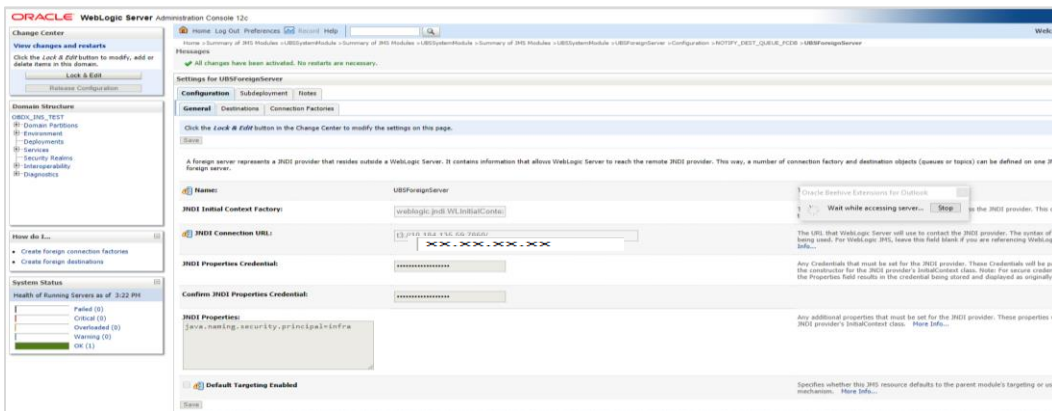
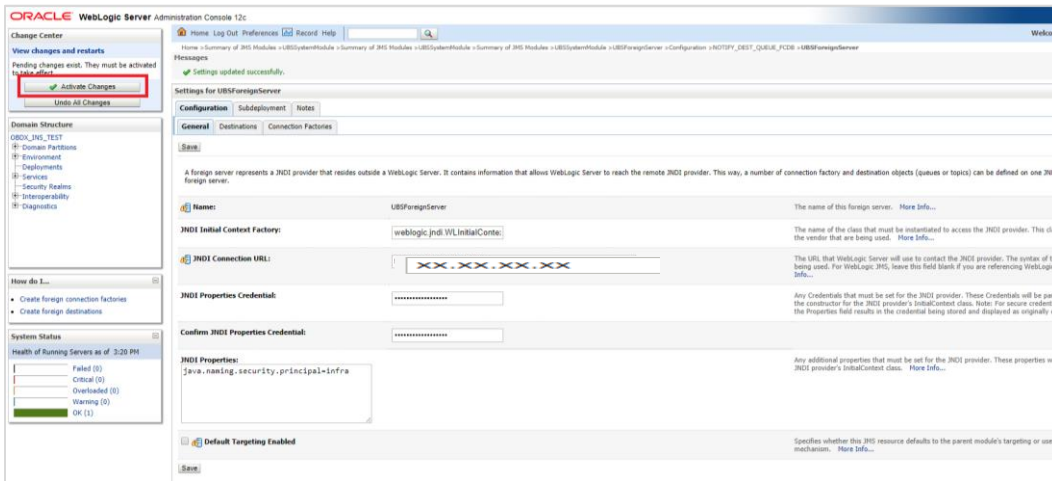
Confirm JNDI Properties Credential – Confirm password for username set in JNDI properties

JNDI Properties – Value to be set as “java.naming.security.principal=<EHMS_WLS_USERNAME>”, where username is the login user of UBS Weblogic Admin Console (user which created the primary local queues for UBS).

- Click on Save



- Click on Activate Changes



Deployment of notification MDB application

Before deployment of obapi.externalsystem.ubs.notification.mdb.ear application, kindly perform below steps:

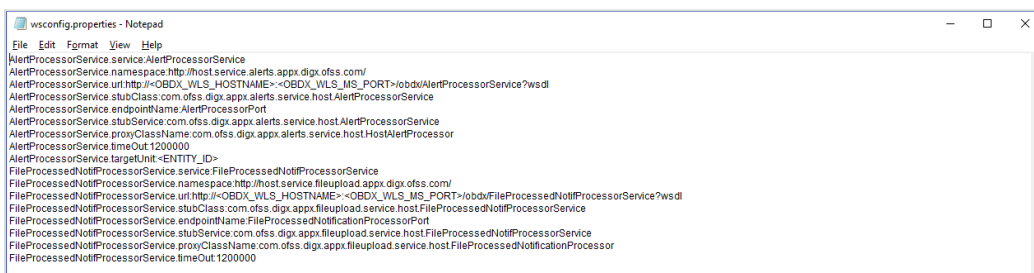
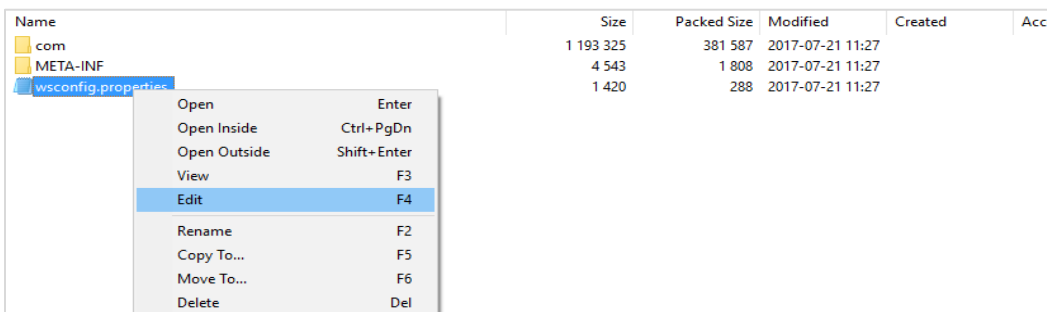
- Open the obapi.externalsystem.ubs.notification.mdb.ear (EAR file is available <OBAPI INSTALLER DIR>/installables/app/components/ubs/deploy/obapi.externalsystem.ubs.notification.mdb.ear) using any archiving tools (i.e.: 7-zip)

Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
APP-INF	3 783 283	3 350 626	2017-05-19 11:57			D drwxr-xr-x	-	
META-INF	1 660	862	2017-07-21 11:29			D drwxr-xr-x	-	
com.ofss.extsystem.ubs.notification.jar	481 333	398 219	2017-07-21 11:29			-rw-r--r--	-	

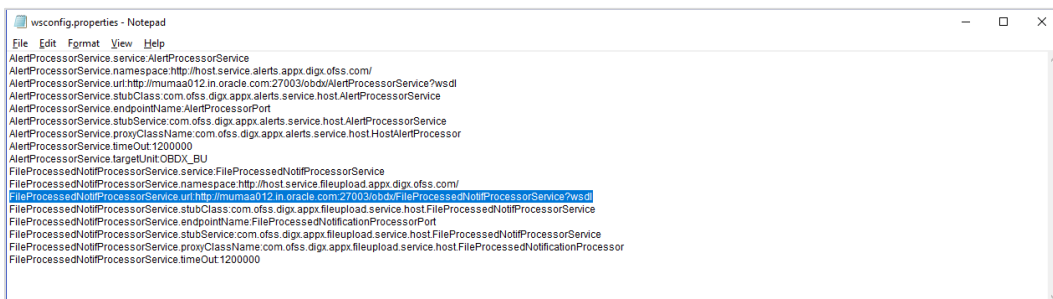
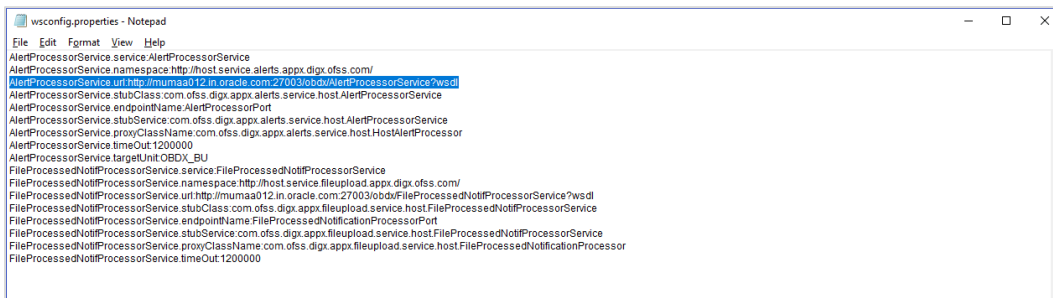
- Double click on com.ofss.extsystem.ubs.notification.jar

Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
com	1 193 325	381 587	2017-07-21 11:27			D drwxr-xr-x	-	
META-INF	4 543	1 808	2017-07-21 11:27			D drwxr-xr-x	-	
wsconfig.properties	1 420	288	2017-07-21 11:27			-rw-r--r--	-	

- Open the wsconfig.properties to edit



- Change the URL for AlertProcessorService.url,FileProcessedNotifProcessorService.url and AlertProcessorService.targetUnit(Note the hostname and port should be of OBAPI managed server created by installer. Entity ID should be OBDX_BU for Base entity)



```

wsconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service.AlertProcessorService
AlertProcessorService.namespace=http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url=http://mumaa012.in.oracle.com:27003/obdx/AlertProcessorService?wsdl
AlertProcessorService.stubClass=com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.endpointName=AlertProcessorPort
AlertProcessorService.stubService=com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.proxyClassName=com.ofss.digx.appx.alerts.service.host.AlertProcessor
AlertProcessorService.timeOut=1200000
AlertProcessorService.targetUri=OBDX
FileProcessedNotificationProcessorService
FileProcessedNotificationProcessorService.namespace=http://host.service.fileupload.appx.digx.ofss.com/
FileProcessedNotificationProcessorService.url=http://mumaa012.in.oracle.com:27003/obdx/FileProcessedNotificationProcessorService?wsdl
FileProcessedNotificationProcessorService.stubClass=com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessorService
FileProcessedNotificationProcessorService.endpointName=FileProcessedNotificationProcessorPort
FileProcessedNotificationProcessorService.stubService=com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessorService
FileProcessedNotificationProcessorService.proxyClassName=com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessor
FileProcessedNotificationProcessorService.timeOut=1200000
    
```

- Save changes.
- Click OK.

Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
com	1 193 325	381 587	2017-07-21 11:27			D drwxr-xr-x	-	
META-INF	4 543	1 808	2017-07-21 11:27			D drwxr-xr-x	-	
wsconfig.properties	1 420	288	2017-07-21 11:27			-rw-r--r--	-	

7-Zip

File 'wsconfig.properties' was modified.
Do you want to update it in the archive?

OK Cancel

- Navigate back to obapi.externalsystem.ubs.notification.mdb.ear

Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
com	1 193 325	381 587	2017-07-21 11:27			D drwxr-xr-x	-	
META-INF	4 543	1 808	2017-07-21 11:27			D drwxr-xr-x	-	
wsconfig.properties	1 420	288	2017-07-21 11:27			-rw-r--r--	-	

- Click OK

Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
com	1 193 325	381 587	2017-07-21 11:27			D drwxr-xr-x	-	
META-INF	4 543	1 808	2017-07-21 11:27			D drwxr-xr-x	-	
com.ofss.externalsystem.ubs.notification.jar	1 421	288	2017-07-25 21:06	2017-07-25 21:03	2017-07-25 21:03	A	-	

7-Zip

File 'com.ofss.externalsystem.ubs.notification.jar' was modified.
Do you want to update it in the archive?

OK Cancel

The date-timestamp would be updated (as seen below) once the change is saved.

Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
APP-INF	3 783 283	3 300 626	2017-05-19 11:57			D drwxr-xr-x	-	
META-INF	1 660	862	2017-07-21 11:29			D drwxr-xr-x	-	
com.ofss.externsystem.ubs.notification.jar	481 369	398 685	2017-07-25 21:07	2017-07-25 21:07	2017-07-25 21:07	A	-	

Deploy the updated obapi.externalsystem.ubs.notification.mdb.ear using below steps.

- Login into Weblogic Admin Console (OBAPI domain created using installer) and navigate to Deployments

The screenshot shows the Oracle WebLogic Server Administration Console. The main area displays the 'Summary of Deployments' page. On the left-hand side, under the 'Change Center' section, the 'Lock & Edit' button is highlighted with a red box. The main content area shows a table of deployed applications with columns for Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order.

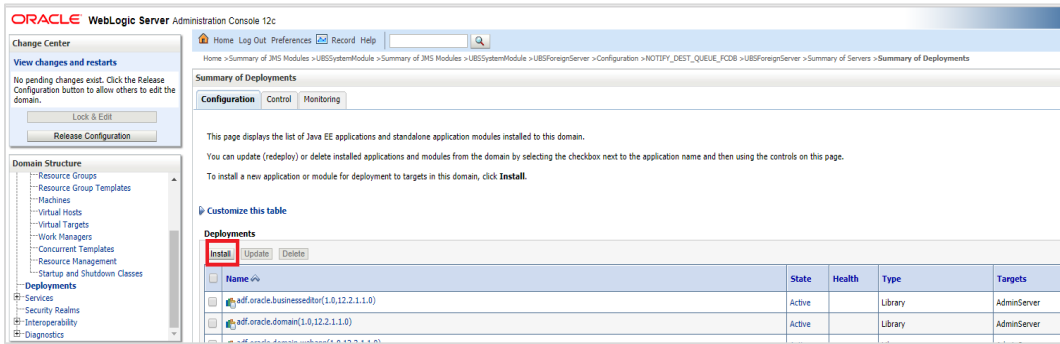
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
self.oracle.businesscenter(1.6.12.2.1.1.0)	Active		Library	AdminServer	Global		100
self.oracle.domain(1.6.12.2.1.1.0)	Active		Library	AdminServer	Global		100
self.oracle.domain.webapp(1.6.12.2.1.1.0)	Active		Library	AdminServer	Global		100
myAuditOCB2AR	New		Enterprise Application	InstallerTest	Global		100
myBatchResourceAdapter	New		Enterprise Application	InstallerTest	Global		100
coherence.transaction.rar	Active	OK	Resource Adapter	AdminServer	Global		100
my.com.ofss.afps.app.connector	New		Enterprise Application	InstallerTest	Global		100
my.com.ofss.afps.app.service.rest	New		Enterprise Application	InstallerTest	Global		100
my.com.ofss.afps.app.service.soap	New		Enterprise Application	InstallerTest	Global		100
OWS Application (12.2.1.1.0)	Active	OK	Web Application	AdminServer	Global		5

- Click Lock & Edit

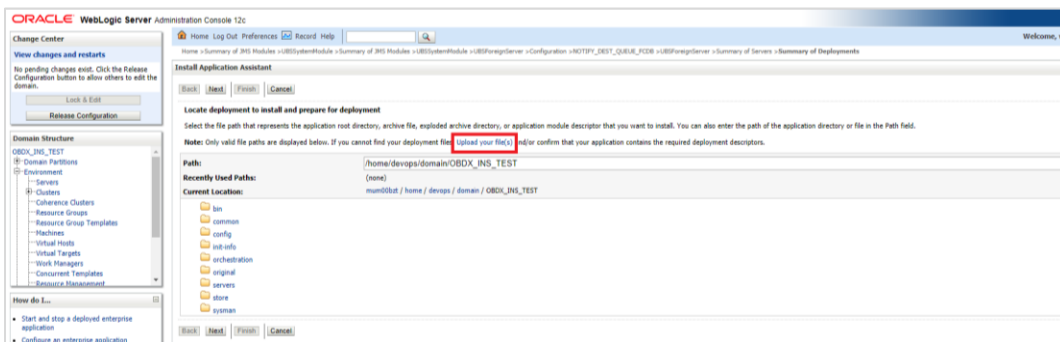
This screenshot is identical to the previous one, showing the Oracle WebLogic Server Administration Console. The 'Lock & Edit' button in the left-hand navigation pane is highlighted with a red box. The main content area displays the 'Summary of Deployments' page with a table of deployed applications.

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
self.oracle.businesscenter(1.6.12.2.1.1.0)	Active		Library	AdminServer	Global		100
self.oracle.domain(1.6.12.2.1.1.0)	Active		Library	AdminServer	Global		100
self.oracle.domain.webapp(1.6.12.2.1.1.0)	Active		Library	AdminServer	Global		100
myAuditOCB2AR	New		Enterprise Application	InstallerTest	Global		100
myBatchResourceAdapter	New		Enterprise Application	InstallerTest	Global		100
coherence.transaction.rar	Active	OK	Resource Adapter	AdminServer	Global		100
my.com.ofss.afps.app.connector	New		Enterprise Application	InstallerTest	Global		100
my.com.ofss.afps.app.service.rest	New		Enterprise Application	InstallerTest	Global		100
my.com.ofss.afps.app.service.soap	New		Enterprise Application	InstallerTest	Global		100
OWS Application (12.2.1.1.0)	Active	OK	Web Application	AdminServer	Global		5

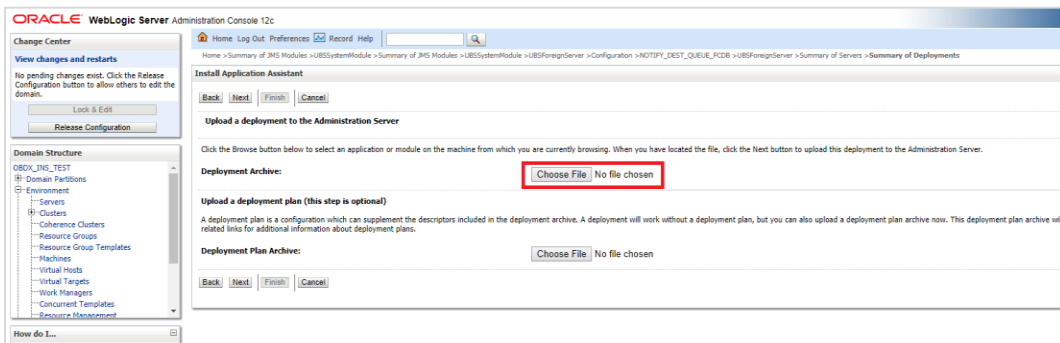
- Click on Install



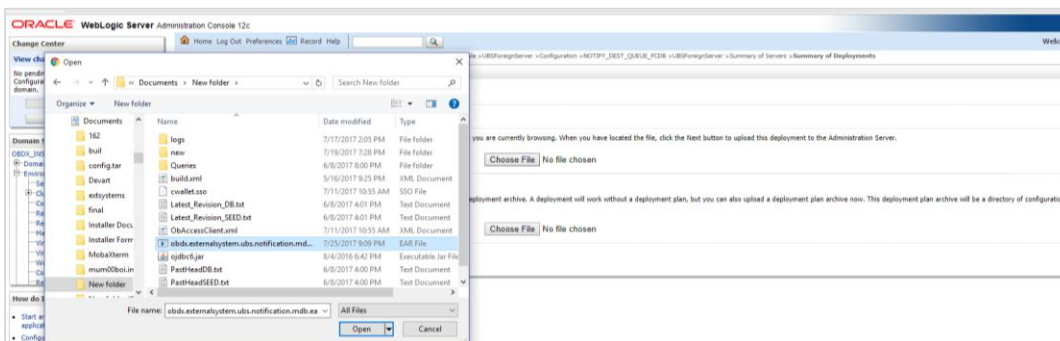
- Click on Upload your file(s)



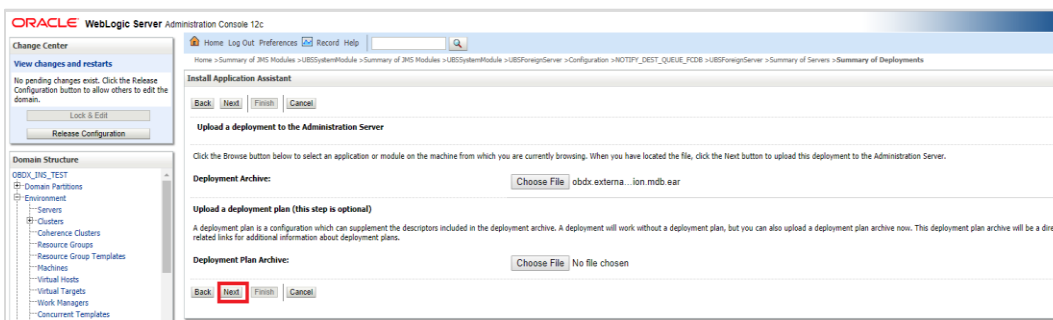
- Click on Choose File under Deployment Archive



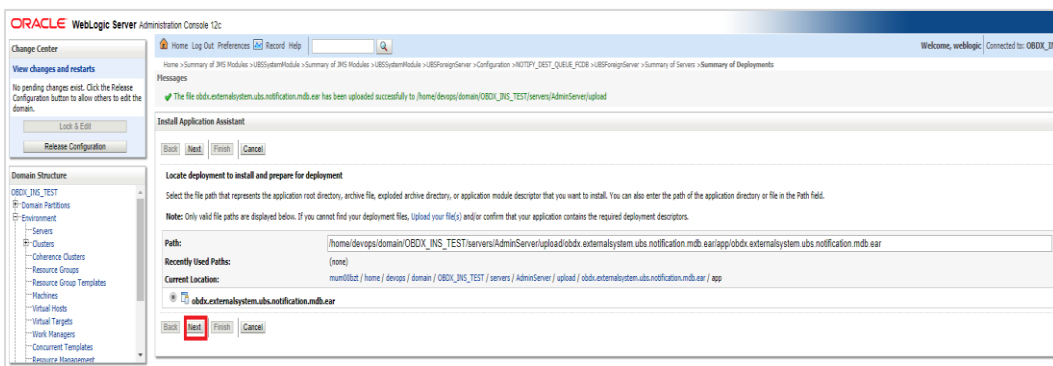
- Navigate to customized obapi.externalsystem.ubs.notification.mdb.ear and click Open



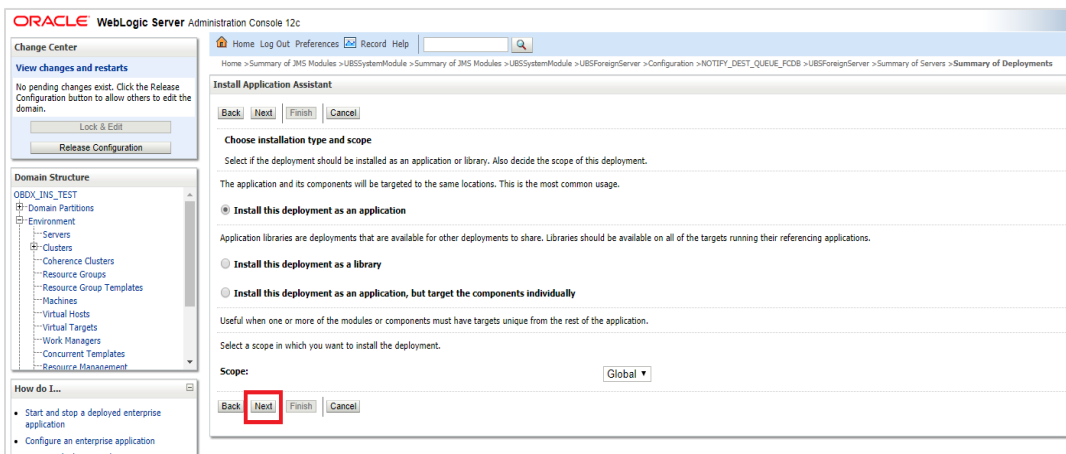
- Click Next



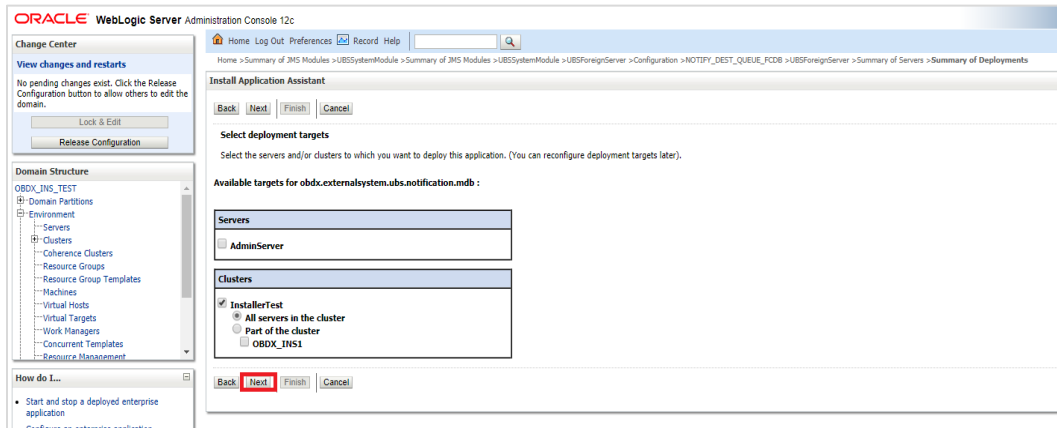
- Click Next



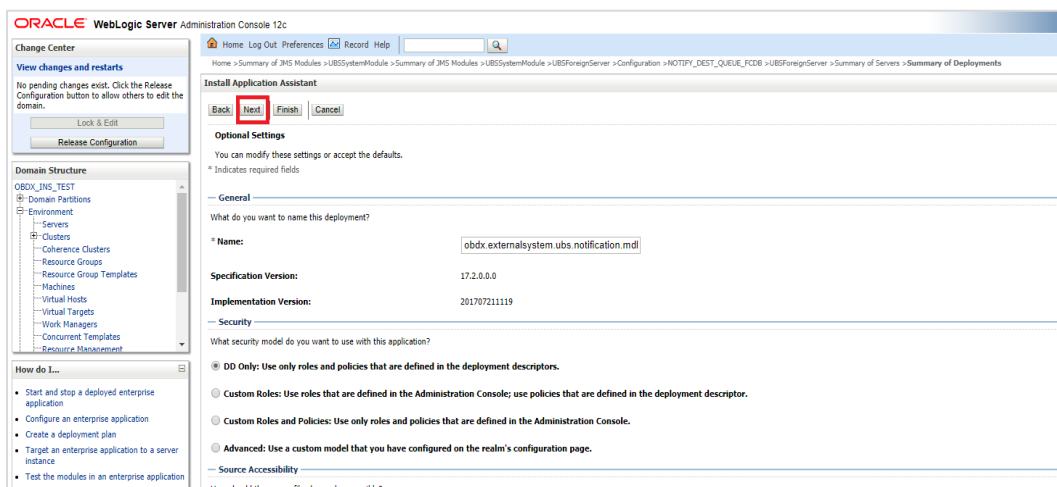
- Select "Install this deployment as an application" and click Next



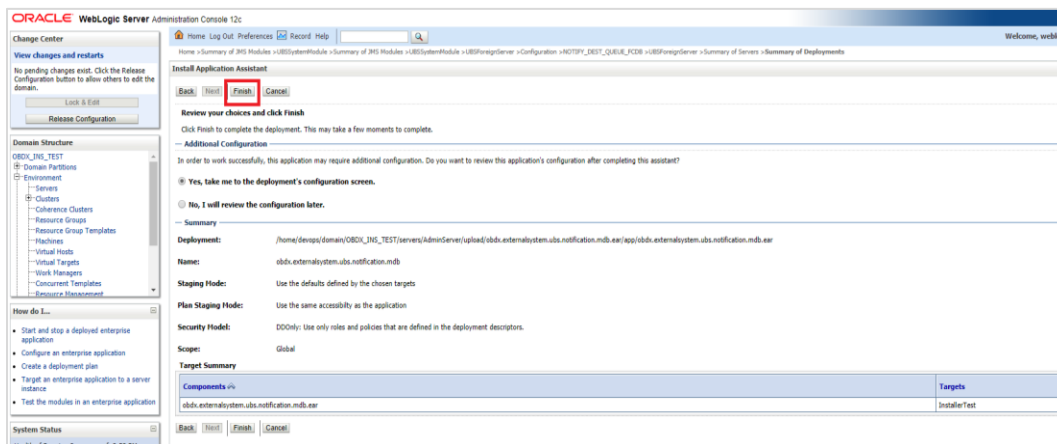
- Select Cluster as target and click Next



- Click Next



- Click Finish.



- Click Save.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > UBSForeignServer > Configuration > NOTTPY_DEST_QUEUE_FCDB > UBSForeignServer > Summary of Servers > Summary of Deployments > obdx.externalssystem.ubs.notification.mdb

Messages
 ✓ Settings updated successfully.

Settings for obdx.externalssystem.ubs.notification.mdb

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Save

Use this page to view the general configuration of an enterprise application, such as its name, the physical path to the application files, the associated deployment plan, and so on. The table at the end of the page lists the modules (such as Web) the name of the module to view and update its configuration.

Name:	obdx.externalssystem.ubs.notification.mdb	The name of this enterprise application. More Info...
Scope:	Global	Specifies if this enterprise application is accessible to all servers in the domain. More Info...
Path:	/ home/ devops/ domain/ OBDX_INS_TEST/ servers/ AdminServer/ upload/ obdx. externalssystem. ubs. notification. mdb. ear/ app/ obdx. externalssystem. ubs. notification. mdb. ear	The path to the source of the deployable unit. More Info...
Deployment Plan:	(no plan specified)	The path to the deployment plan document on the server. More Info...
Staging Mode:	(not specified)	Specifies whether a deployment's files are copied to the staging area during application preparation. More Info...
Plan Staging Mode:	(not specified)	Specifies whether an application's deployment files are copied to the staging area during application preparation. More Info...
Security Model:	DDOnly	The security model that is used to secure a deployment. More Info...
Deployment Order:	100	An integer value that indicates when this unit is deployed. More Info...
Deployment Principal Name:		A string value that indicates the principal that is used to set the current user's ApplicationLifecycleListener. If no principal name is specified, the current user is used. More Info...

- Click Activate Changes

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > UBSForeignServer > Configuration > NOTTPY_DEST_QUEUE_FCDB > UBSForeignServer > Summary of Servers > Summary of Deployments > obdx.externalssystem.ubs.notification.mdb

Messages
 ✓ Settings updated successfully.

Settings for obdx.externalssystem.ubs.notification.mdb

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Save

Use this page to view the general configuration of an enterprise application, such as its name, the physical path to the application files, the associated deployment plan, and so on. The table at the end of the page lists the modules (such as Web) the name of the module to view and update its configuration.

Name:	obdx.externalssystem.ubs.notification.mdb	The name of this enterprise application. More Info...
Scope:	Global	Specifies if this enterprise application is accessible to all servers in the domain. More Info...
Path:	/ home/ devops/ domain/ OBDX_INS_TEST/ servers/ AdminServer/ upload/ obdx. externalssystem. ubs. notification. mdb. ear/ app/ obdx. externalssystem. ubs. notification. mdb. ear	The path to the source of the deployable unit. More Info...
Deployment Plan:	(no plan specified)	The path to the deployment plan document on the server. More Info...
Staging Mode:	(not specified)	Specifies whether a deployment's files are copied to the staging area during application preparation. More Info...
Plan Staging Mode:	(not specified)	Specifies whether an application's deployment files are copied to the staging area during application preparation. More Info...
Security Model:	DDOnly	The security model that is used to secure a deployment. More Info...
Deployment Order:	100	An integer value that indicates when this unit is deployed. More Info...
Deployment Principal Name:		A string value that indicates the principal that is used to set the current user's ApplicationLifecycleListener. If no principal name is specified, the current user is used. More Info...

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > UBSForeignServer > Configuration > NOTTPY_DEST_QUEUE_FCDB > UBSForeignServer > Summary of Servers > Summary of Deployments > obdx.externalssystem.ubs.notification.mdb

Messages
 ✓ All changes have been activated. No restarts are necessary.

Settings for obdx.externalssystem.ubs.notification.mdb

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Lock & Edit

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

Save

Use this page to view the general configuration of an enterprise application, such as its name, the physical path to the application files, the associated deployment plan, and so on. The table at the end of the page lists the modules (such as Web) the name of the module to view and update its configuration.

Name:	obdx.externalssystem.ubs.notification.mdb	The name of this enterprise application. More Info...
Scope:	Global	Specifies if this enterprise application is accessible to all servers in the domain. More Info...
Path:	/ home/ devops/ domain/ OBDX_INS_TEST/ servers/ AdminServer/ upload/ obdx. externalssystem. ubs. notification. mdb. ear/ app/ obdx. externalssystem. ubs. notification. mdb. ear	The path to the source of the deployable unit. More Info...
Deployment Plan:	(no plan specified)	The path to the deployment plan document on the server. More Info...
Staging Mode:	(not specified)	Specifies whether a deployment's files are copied to the staging area during application preparation. More Info...
Plan Staging Mode:	(not specified)	Specifies whether an application's deployment files are copied to the staging area during application preparation. More Info...
Security Model:	DDOnly	The security model that is used to secure a deployment. More Info...
Deployment Order:	100	An integer value that indicates when this unit is deployed. More Info...
Deployment Principal Name:		A string value that indicates the principal that is used to set the current user's ApplicationLifecycleListener. If no principal name is specified, the current user is used. More Info...

Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM)

If during installer execution Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM) is selected, then below steps needs to be done manually.

Foreign Server

- Login into Weblogic Admin console (OBAPI domain created using installer) and Browse to Summary of JMS Modules > OBPMSystemModule > OBPMForeignServer (as shown below)

Settings for OBPMSystemModule

Configuration | Subdeployments | Targets | Security | Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: OBPMSystemModule The name of this JMS system module. [More Info...](#)

Scope: Global Specifies if the JMS system module is accessible within

Descriptor File Name: jms/obpmssystemmodule-jms.xml The name of the JMS module descriptor file. [More In](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, e

Customize this table

Summary of Resources

Click the *Lock & Edit* button in the Change Center to activate all the buttons on this page.

Name	Type	JNDI Name	Subdeployment
OBPMForeignServer	Foreign Server	N/A	OBPMSubdeployment

Refer to earlier steps mentioned for **UBS HOST UBSForeignServer** and make similar changes in **OBPMForeignServer**.

Deployment of notification MDB application

Before deployment of obapi.externalsystem.obpm.notification.mdb.ear application, make changes similar to obapi.externalsystem.ubs.notification.mdb.ear before deployment.

Fileupload with UBS

Refer below document for File upload configuration with UBS

- **Oracle Banking Digital Experience File Upload Report Configuration**

Origination with UBS

Refer below document (section 5 and 6) for enabling Origination with UBS

- **Oracle Banking Digital Experience UBS Origination Setup and Configuration**

Trade Finance (LC and BG) with OBTfPM

Refer below document for enabling 'Letter Of Credit' issuance and 'Bank Guarantee' issuance with Oracle Banking Trade Finance Management.

Oracle Banking Mid-Office Product Setup and Configuration Guide

OHS

OHS server needs to be configured for all FLAVOR's as a mandatory activity.

To configure OHS server follow steps mentioned in below document before proceeding further.

- **Oracle Banking Digital Experience OHS User Interface Configuration**

Feedback module:

In order to enable Scale (Rating) icons please refer the section **Creating Procedure of Oracle Banking Digital Experience Content Upload Guide** user manual.

[Home](#)

9. OBAPI Product Verification

Start managed server and verify all deployed applications are in Active state (as shown below).

<input type="checkbox"/>	AuditMDBEAR	Active	✔ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	BatchResourceAdapter	Active	✔ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	coherence-transaction-rar	Active	✔ OK	Resource Adapter	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	com.ofss.digx.app.connector	Active	✔ OK	Enterprise Application	obdx_cluster	Global		100

<input type="checkbox"/>	ExtfaceSimulatorMDB	Active	✔ OK	Enterprise Application	obdx_cluster	Global		0
--------------------------	---------------------	--------	------	------------------------	--------------	--------	--	---

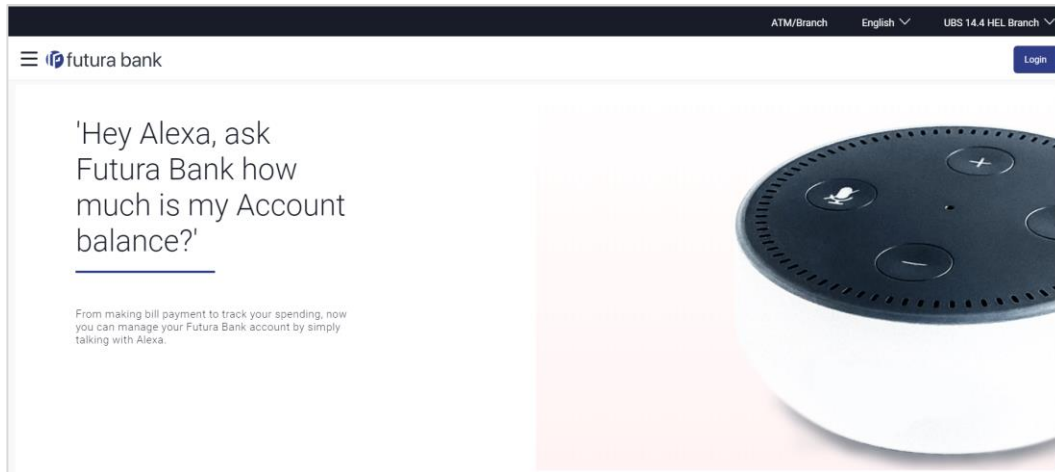
<input type="checkbox"/>	obdx.app.core.domain (20.1.0.0.0,948)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.domain (20.1.0.0.0,948)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.framework (20.1.0.0.0,948)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.mdb.report	New		Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.oauth (20.1.0.0.0,948)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.oauth.rest	New		Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.rest.idm	New		Enterprise Application	obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.soap	New		Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.timer	New		Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.cz.app.domain (19.2.0.0.0,1)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.cz.extsystem.domain (19.2.0.0.0,1)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.cz.thirdparty.app.domain (19.2.0.0.0,1)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.extsystem.domain (20.1.0.0.0,948)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.thirdparty.app.domain (20.1.0.0.0,948)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	odl.clickhistory (1.0,12.2.1)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	odl.clickhistory.webapp (1.0,12.2.1)	Active		Library	AdminServer, obdx_cluster	Global		100

To login into application, new user needs to be created (if not already done) in OUD refer section **Creating Groups and System Admin User** on LDAP Server of document **“Oracle Banking Digital Experience Installer Pre-Requirement Setup Manual”** mentioned in section 8.5 Related Information Sources.

To verify the installation, launch below URL

<http://<OHS server ip or hostname>:<OHS port>>

Check if the page loads successfully.



Day1 Configuration

Universal Banking Solution (OBAPI with UBS)

Refer below document (Section 3. System Configuration) for Day1 configuration required for integration with UBS

Oracle Banking Digital Experience System Configuration

Once day1 is completed, application is available for end-user transactions.

Note: Post Day1 restart of Managed server is mandatory

Third Party System (OBAPI with THP)

Refer below document (Section 5. System Configuration – Host System as Third Party) for Day1 configuration required for integration with Third-party System

Oracle Banking Digital Experience System Configuration

Once day1 is completed, application is available for end-user transactions.

Note: Post Day1 restart of Managed server is mandatory

Chat Bot Configuration:

Refer below document for Chat Bot configuration.

Oracle Banking Digital Experience Chatbot Configuration

Mobile Application Builder:

Refer below documents for Mobile Applications build and setup.

Oracle Banking Digital Experience Mobile Application Builder-Android

Oracle Banking Digital Experience Mobile Application Builder-iOS

Mid Office Configuration:

Refer below document for Mid Office Configurations i.e. Trade Finance, Corporate Lending.

Oracle Banking Mid-Office Product Setup and Configuration Guide.

Account Uniqueness Configuration:

Some core banking systems support same account number in multiple branches within the entity. OBAPI has support for such core banking systems. However, the configuration is not enabled by default. In case the Bank has core banking system which supports and provides same account numbers across multiple branches, the following scripts should be executed per entity for enabling the support.

```

Insert into DIGX_FW_CONFIG_ALL_O (PROP_ID, PREFERENCE_NAME, PROP_VALUE,
DETERMINANT_VALUE, CREATED_BY, CREATION_DATE, LAST_UPDATED_BY,
LAST_UPDATED_DATE)
values
('obapi.host.account.uniqueness','ExtSystemsConfig','BRANCH','<ENTITY_ID>','ofss
user',sysdate,'ofssuser',sysdate);

Insert into DIGX_FW_CONFIG_ALL_O (PROP_ID, PREFERENCE_NAME, PROP_VALUE,
DETERMINANT_VALUE, CREATED_BY, CREATION_DATE, LAST_UPDATED_BY,
LAST_UPDATED_DATE)
values
('obapi.host.accountbranch.delimiter','ExtSystemsConfig','@~','<ENTITY_ID>','ofs
suser',sysdate,'ofssuser',sysdate);

```

Note: Please ensure that <ENTITY_ID> has been replaced with correct Entity ID for the corresponding entity.

[Home](#)

10. Configuration for OUD/OAM

In-case installation needs to be done using OUD/ OAM provider, below steps needs to be performed manually.

Weblogic configuration/ deployment

- **REST EAR deployment:**

Undeploy obapi.app.rest.idm from deployments.

Deploy obapi.app.rest from Installer zip (<OBAPI INSTALLER DIR>\installables\app\components\obapi\deploy\obapi.app.rest.ear).

Refer to manual deployment steps provided for obapi.externalsystem.ubs.notification.mdb.ear application

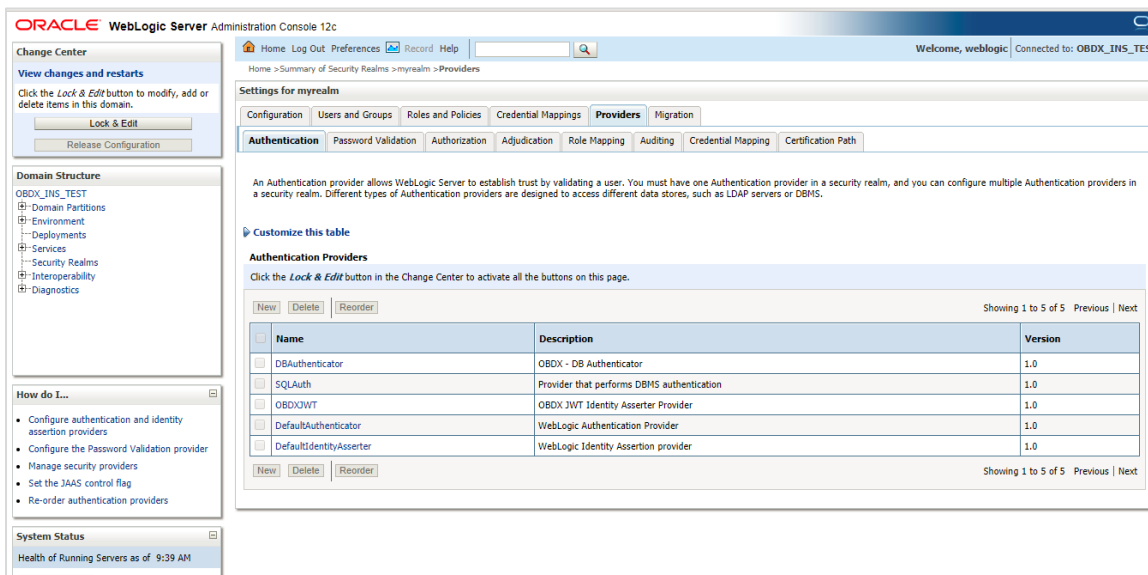
- **Security Realms**

To configure your own Oracle LDAP to use instead of the default embedded LDAP, which comes with Oracle Weblogic Server.

- To do this, ensure that the Admin Server is running. Login to the Weblogic Console for OBAPI domain (created by Installer) using the following URL:

http://<hostname>:<admin_port>/console

- Now, go to Security Realms > myrealm > Providers



The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and is under the 'Providers' tab. It contains a table of authentication providers. The table has three columns: Name, Description, and Version. There are five rows of providers listed.

Name	Description	Version
DBAuthenticator	OBDX - DB Authenticator	1.0
SQLAuth	Provider that performs DBMS authentication	1.0
OBDXJWT	OBDX JWT Identity Asserter Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

- Now click on “**Lock & Edit**” in order to edit the details.
- Delete the following Authenticators under providers-> **Authentication**:

DBAuthenticator

SQLAuth

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Environment > Summary of Servers > Summary of Security Realms > myrealm > Providers > Summary of Environment > Summary of Servers > Summary of Security Realms > myrealm > Providers

Settings for myrealm

Configuration Users and Groups Roles and Policies Credential Mappings **Providers** Migration

Authentication Password Validation Authorization Adjudication Role Mapping Auditing Credential Mapping Certification Path

An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS.

Customize this table

Authentication Providers

New Delete Reorder Showing 1 to 5 of 5 Previous Next

Name	Description	Version
<input checked="" type="checkbox"/> DBAuthenticator	OBDX - DB Authenticator	1.0
<input checked="" type="checkbox"/> SQLAuth	Provider that performs DBMS authentication	1.0
<input type="checkbox"/> OBDXJWT	OBDX JWT Identity Asserter Provider	1.0
<input type="checkbox"/> DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/> DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

New Delete Reorder Showing 1 to 5 of 5 Previous Next

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Environment > Summary of Servers > Summary of Security Realms > myrealm > Providers > OUDAuthenticator > Providers

Messages

Selected Authentication Providers have been deleted.

Settings for myrealm

Configuration Users and Groups Roles and Policies Credential Mappings **Providers** Migration

Authentication Password Validation Authorization Adjudication Role Mapping Auditing Credential Mapping Certification Path

An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS.

Customize this table

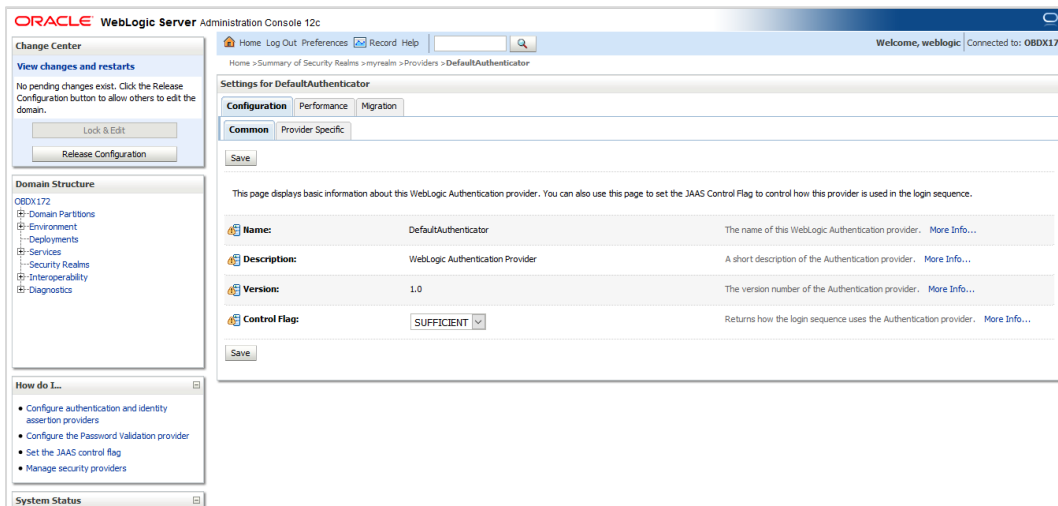
Authentication Providers

New Delete Reorder Showing 1 to 3 of 3 Previous Next

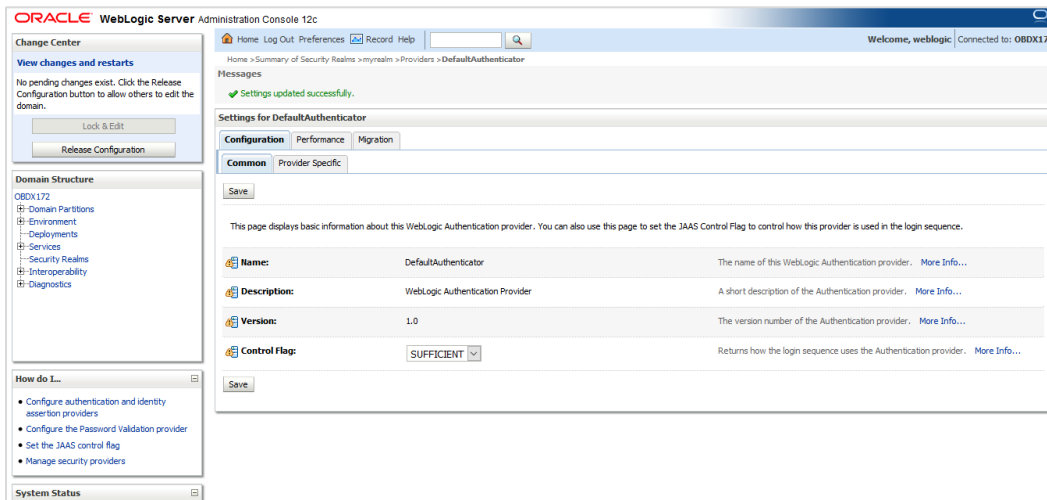
Name	Description	Version
<input type="checkbox"/> OBDXJWT	OBDX JWT Identity Asserter Provider	1.0
<input type="checkbox"/> DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/> DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

New Delete Reorder Showing 1 to 3 of 3 Previous Next

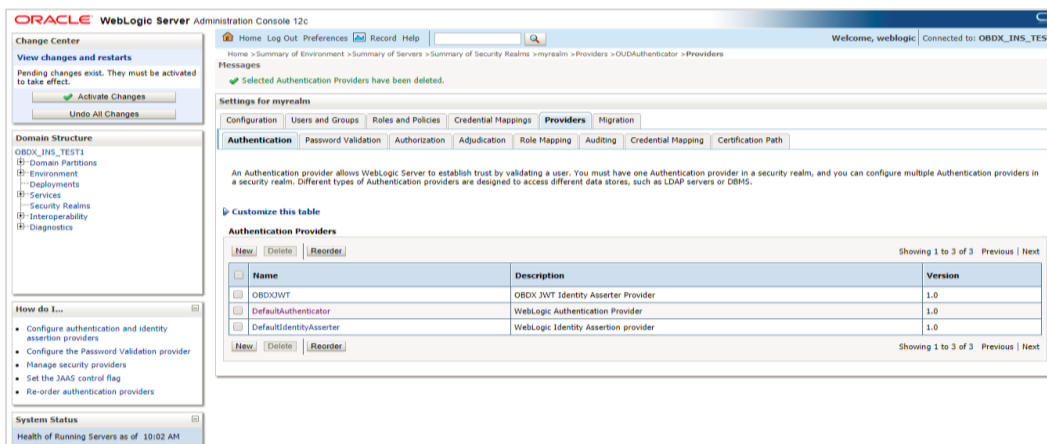
- Click on 'DefaultAuthenticator' provider and change the Control Flag to SUFFICIENT



- Click on Save button to save the changes



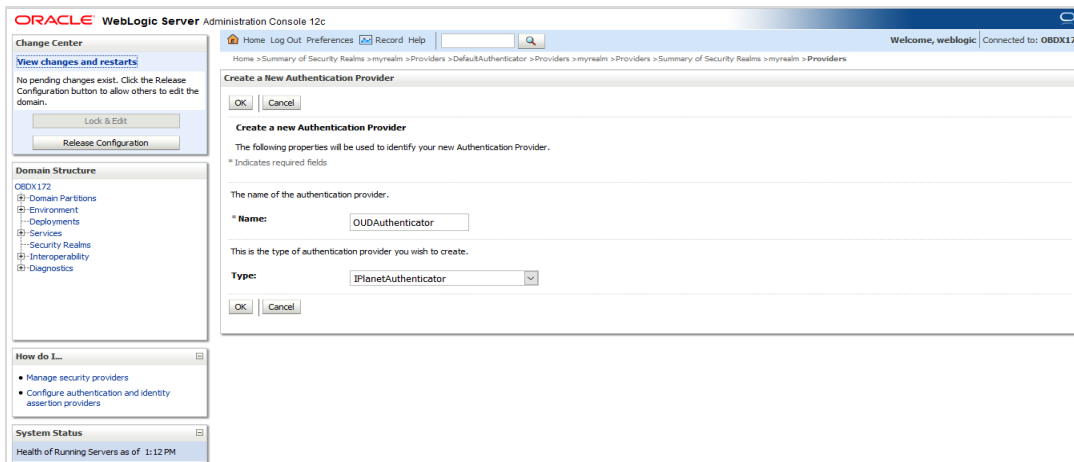
- Navigate Back to Security Realms > myrealm > Providers



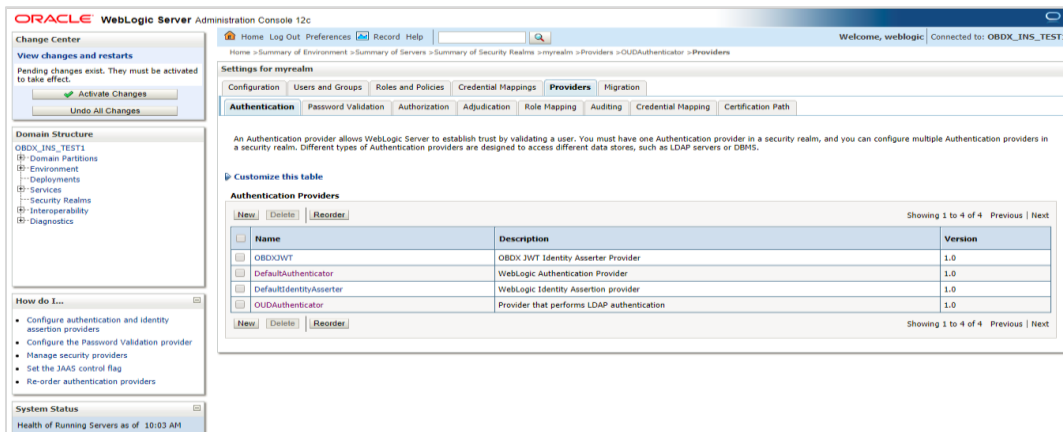
- Now, click on New and enter the below details and click Save.

Name : OUDAuthenticator

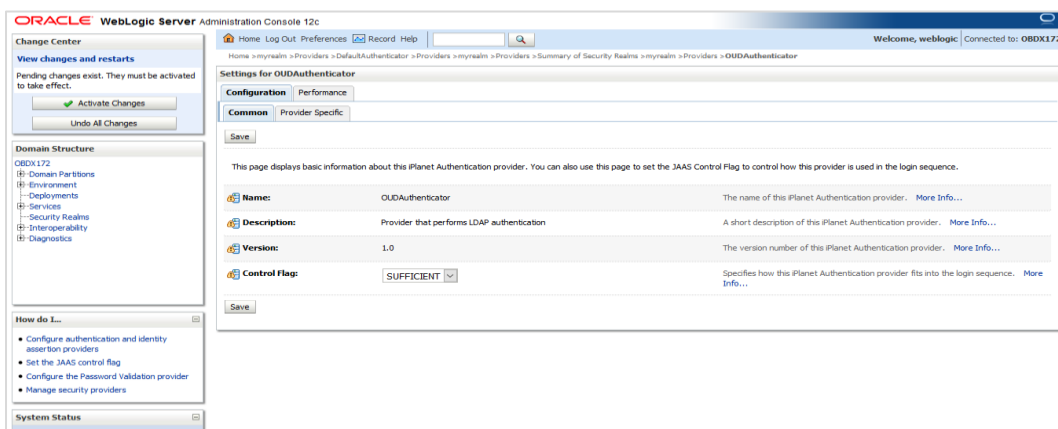
Type : OracleUnifiedDirectoryAuthenticator



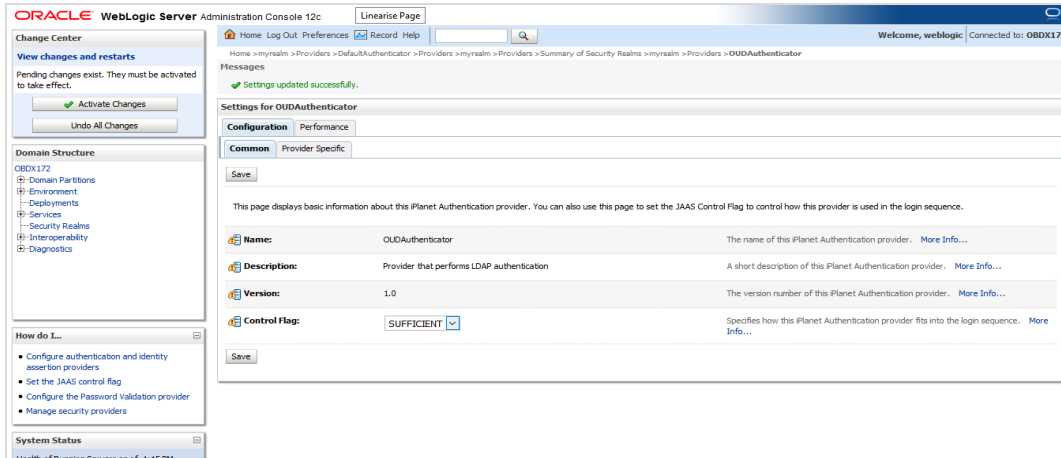
- Click on OK Button.



Now Click on OUDAuthenticator and select Control Flag as “SUFFICIENT”

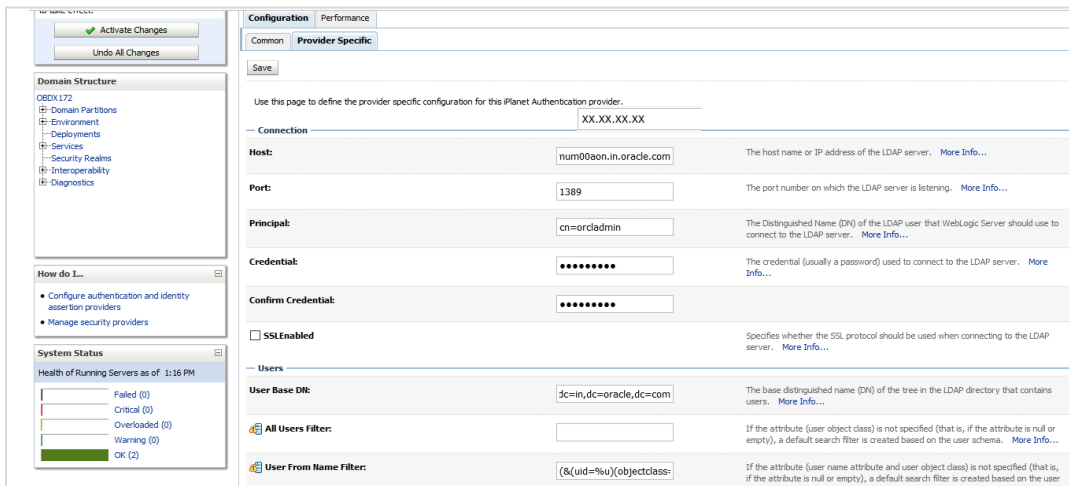


- Click on Save Button.



- Now under Provider Specific tab set the details of LDAP where the server should point. Refer to the following table for more information:

Property	Value
Host	This is the LDAP Server (OUD) Hostname
Port	This is the LDAP Server (OUD) Port. E.g. 1389
Principal	This is the Administrator Account name. E.g. cn=orcladmin
Credential	This is the Administrator Account password.
Confirm Credential	Confirm the Administrator Account password.
UserBase DN	This is the OUD user search base For e.g.: cn=Users, dc=in,dc=oracle,dc=com
GroupBase DN	This is the OUD group search base For e.g.: cn=Groups, dc=in,dc=oracle,dc=com



User Name Attribute:	<input type="text" value="uid"/>	The attribute of an LDAP user object that specifies the name of the user. More Info...
User Object Class:	<input type="text" value="person"/>	The LDAP object class that stores users. More Info...
<input type="checkbox"/> Use Retrieved User Name as Principal		Specifies whether or not the user name retrieved from the LDAP server should be used as the Principal in the Subject. More Info...
Groups		
Group Base DN:	<input type="text" value="dc=in,dc=oracle,dc=com"/>	The base distinguished name (DN) of the tree in the LDAP directory that contains groups. More Info...
All Groups Filter:	<input type="text"/>	An LDAP search filter for finding all groups beneath the base group distinguished name (DN). If the attribute is not specified (that is, if the attribute is null or empty), a default search filter is created based on the Group schema. More Info...
Group From Name Filter:	<input type="text" value="(&&(cn=%g)/objectclass)"/>	An LDAP search filter for finding a group given the name of the group. If the attribute is not specified (that is, if the attribute is null or empty), a default search filter is created based on the group schema. More Info...
Group Search Scope:	<input type="text" value="subtree"/>	Specifies how deep in the LDAP directory tree to search for groups. Valid values are subtree and onelevel. More Info...
Group Membership Searching:	<input type="text" value="unlimited"/>	Specifies whether group searches into nested groups are unlimited, limited or off. Valid values are unlimited, limited and off. More Info...
Max Group Membership Search Level:	<input type="text" value="0"/>	Specifies how many levels of group membership can be searched. This setting is valid only if GroupMembershipSearching is set to limited. Valid values are 0 and positive integers. For example, 0 indicates only direct group memberships will be found, and a positive number indicates the number of levels to search. More Info...
<input type="checkbox"/> Ignore Duplicate Membership		Determines whether duplicate members are ignored when adding groups. The attribute cycles in the Group membership. More Info...
Static Groups		

- Click on Save to update the changes.
- Navigate Back to Security Realms > myrealm > Providers

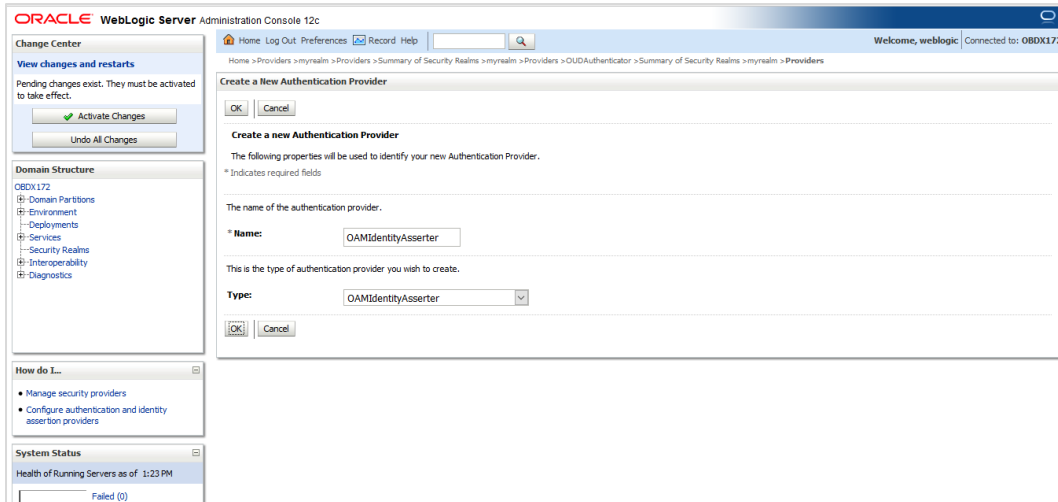
The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for myrealm" and includes a "Providers" tab. Below this, there is a table of "Authentication Providers".

Name	Description	Version
OBDXJWT	OBDX JWT Identity Asserter Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0
OUDAuthenticator	Provider that performs LDAP authentication	1.0

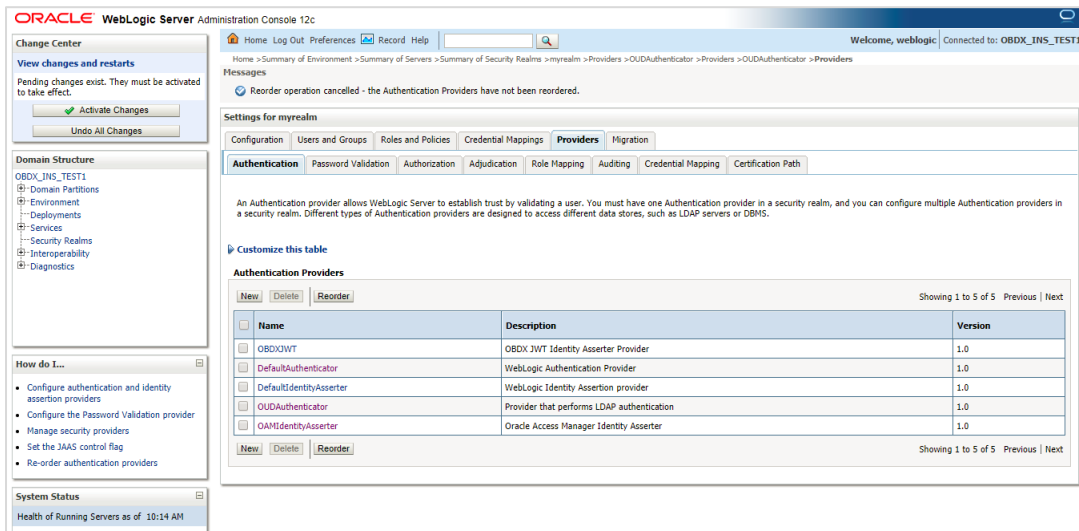
- Now, click on New and enter the below details and click Save.

Name : OAMIdentityAsserter

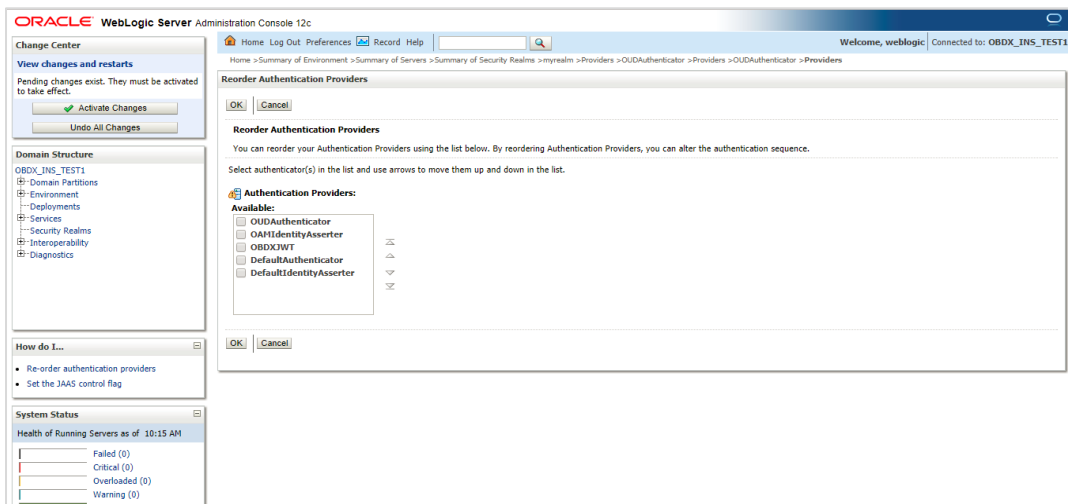
Type : OAMIdentityAsserter



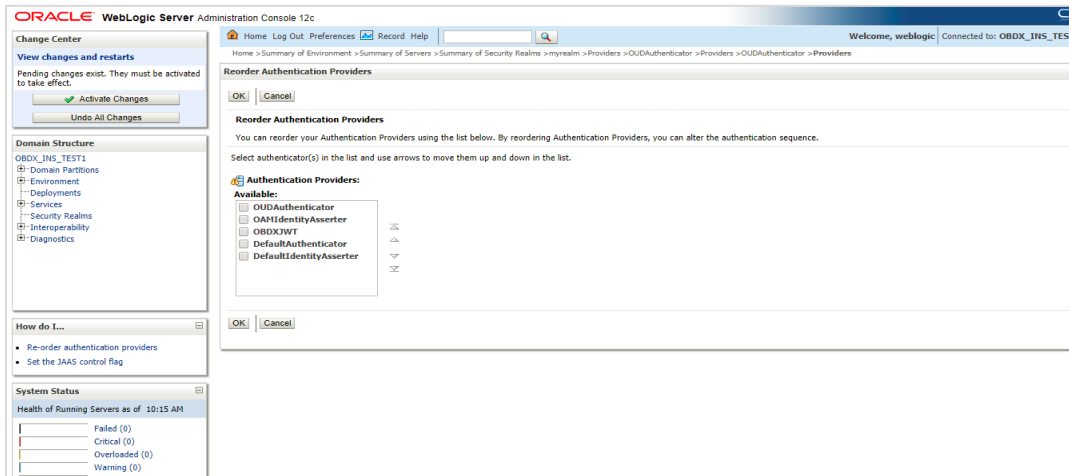
- Click on OK Button.



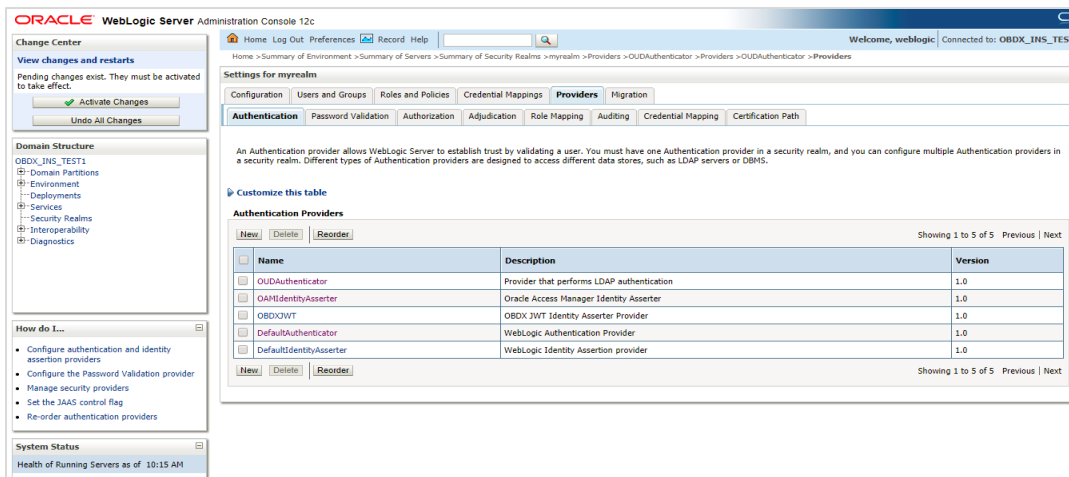
- Click on Reorder Button.



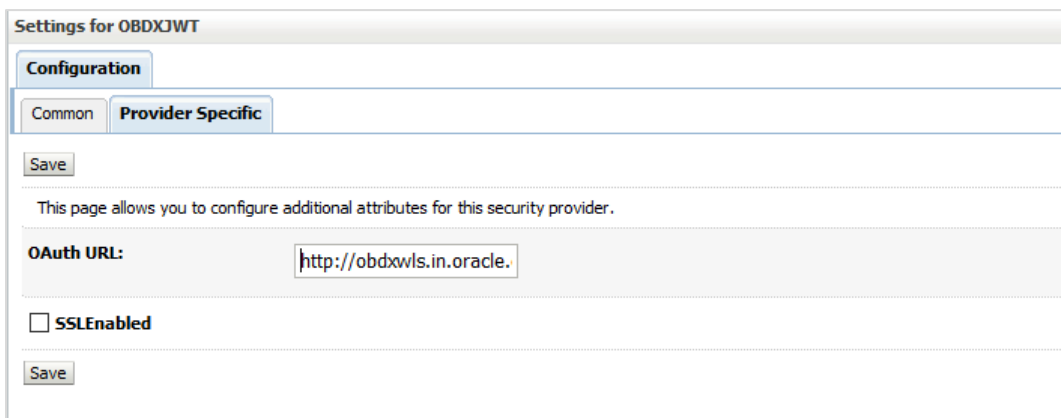
- Reorder the providers so that LDAP Provider (OUDAuthenticator) gets highest priority followed by OAMIdentityAsserter, OBAPIJWT, DefaultAuthenticator, DefaultIdentityAsserter.



- Click on OK Button.

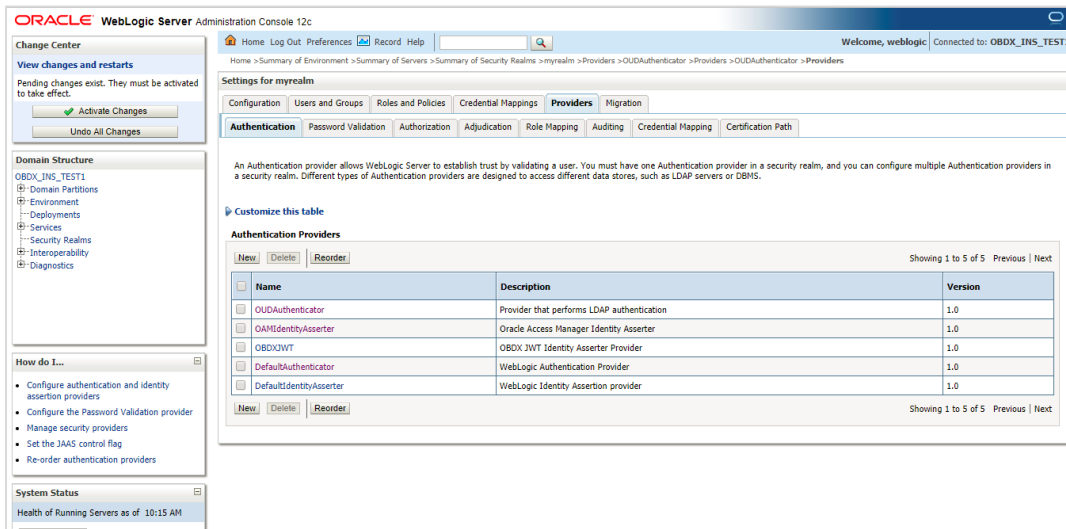


- Set the OAuth URL for OBAPIJWT



Sample OAuth URL: <http://<hostname>:<port>/digx-auth/v1/token/info> (hostname and port should be replaced with OAM Server setup).

- Click on Activate Changes to apply the changes.



- Now go to the <DOMAIN_PATH>/<DOMAIN_NAME>/config/fmwconfig/
- Open jps-config.xml

Replace the line: <serviceInstanceRef ref="idstore.custom"/>

With <serviceInstanceRef ref="idstore.ldap"/>

```

</serviceInstance>
<serviceInstance name="policystore.db" provider="policystore.provider">
  <propertySetRef ref="props.db.1"/>
</serviceInstance>
</serviceInstances>
<jpsContexts default="default">
  <jpsContext name="default">
    <serviceInstanceRef ref="credstore.db"/>
    <serviceInstanceRef ref="keystore.db"/>
    <serviceInstanceRef ref="policystore.db"/>
    <serviceInstanceRef ref="audit.db"/>
    <serviceInstanceRef ref="trust"/>
    <serviceInstanceRef ref="pdp.service"/>
    <serviceInstanceRef ref="attribute"/>
    <serviceInstanceRef ref="idstore.custom"/>
  </jpsContext>
  <jpsContext name="bootstrap_credstore_context">
    <serviceInstanceRef ref="bootstrap_credstore"/>
    <serviceInstanceRef ref="keystore"/>
  </jpsContext>
  <jpsContext name="bootstrap_credstore_context_local">
    <serviceInstanceRef ref="bootstrap_credstore.local"/>
  </jpsContext>
</jpsContexts>
</jpsConfig>

```



```

<serviceInstance name="policystore.db" provider="policystore.provider">
  <propertySetRef ref="props.db.1"/>
</serviceInstance>
</serviceInstances>
<jpsContexts default="default">
  <jpsContext name="default">
    <serviceInstanceRef ref="credstore.db"/>
    <serviceInstanceRef ref="keystore.db"/>
    <serviceInstanceRef ref="policystore.db"/>
    <serviceInstanceRef ref="audit.db"/>
    <serviceInstanceRef ref="trust"/>
    <serviceInstanceRef ref="pdp.service"/>
    <serviceInstanceRef ref="attribute"/>
    <serviceInstanceRef ref="idstore.ldap"/>
  </jpsContext>
  <jpsContext name="bootstrap_credstore_context">
    <serviceInstanceRef ref="bootstrap_credstore"/>
    <serviceInstanceRef ref="keystore"/>
  </jpsContext>
  <jpsContext name="bootstrap_credstore_context_local">
    <serviceInstanceRef ref="bootstrap_credstore.local"/>
  </jpsContext>
</jpsContexts>
</jpsConfig>

```

- Now Shutdown the Admin server.
- Now, again start the Admin Server using the command,


```
<DOMAIN_PATH>/<DOMAIN_NAME>/bin/startWeblogic.sh
```
- Run the following script into OBAPI Schema:

```

update DIGX_FW_CONFIG_ALL_B set prop_value =
'ipm1.0,ORACLEBI12.2.1.2,GENERIC1.0,OAM122130,OULD1.0' where prop_id = '01' and
category_id = 'extxfacadapterconfig';

```

```
commit;
```

- Restart Managed Server

Verification

Post Admin and Managed Servers restart, login into Admin Console and browse to Security Realms > myrealm > Users and Groups.

Under Users tab additional LDAP users would be populated and additional LDAP groups can be seen under Groups tab.

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Security Realms > myrealm > Providers > Users and Groups

Welcome, weblogic | Connected to: OBDX_INS_TEST

Settings for myrealm

Configuration | **Users and Groups** | Roles and Policies | Credential Mappings | Providers | Migration

Users | Groups

This page displays information about each user that has been configured in this security realm.

Some results are not displayed because there are too many matches. Please customize this table to specify more specific criteria. Note: The authentication provider named OAMIdentityAsserter does not support viewing or managing its users through the WebLogic console.

Customize this table

Users (Filtered - More Columns Exist)

New | Delete | Showing 1 to 10 of 1000 | Previous | Next

Name	Description	Provider
000800		OUD
000801		OUD
1207payday1@o.com		OUD
1207payday2@o.com		OUD
1207payday3@o.com		OUD
1207savings1@o.com		OUD
12jun.d1@ora.com		OUD
12jun.d2@ora.com		OUD
12jun.d3@ora.com		OUD
171040		OUD

New | Delete | Showing 1 to 10 of 1000 | Previous | Next

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Security Realms > myrealm > Providers > Users and Groups

Welcome, weblogic | Connected to: OBDX_INS_TEST

Settings for myrealm

Configuration | **Users and Groups** | Roles and Policies | Credential Mappings | Providers | Migration

Users | **Groups**

This page displays information about each group that has been configured in this security realm.

Note: The authentication provider named OAMIdentityAsserter does not support viewing or managing its groups through the WebLogic console.

Customize this table

Groups

New | Delete | Showing 1 to 10 of 22 | Previous | Next

Name	Description	Provider
AdminChannelUsers	AdminChannelUsers can access the admin channel.	DefaultAuthenticator
AdminChecker		OUD
Administrator		OUD
Administrators		OUD
Administrators	Administrators can view and modify all resource attributes and start and stop servers.	DefaultAuthenticator
AdminMaker		OUD
AppTesters	AppTesters group.	DefaultAuthenticator
AuthAdmin		OUD
Checker		OUD
CorporateAdminChecker		OUD

New | Delete | Showing 1 to 10 of 22 | Previous | Next

[Home](#)

11. Multi Entity

To add entity to existing OBAPI with supported host system follow below steps.

- Add entity through OBAPI Web application, using
 - User Manual Oracle Banking Digital Experience System Configuration User Manual
- In case of OBTFPM integration, following document should be referred.
- Oracle Banking Mid-Office Product Setup and Configuration Guide Running OBAPI installer

Ensure that Managed server should be down and Admin server should be running state.

Ensure ORACLE_HOME, JAVA_HOME variable are set and their binaries are available in PATH variable before proceeding.

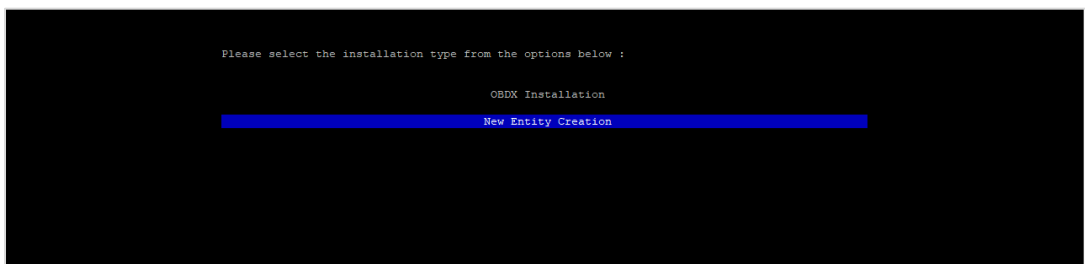
Login with OS user which was used to perform OBAPI software installation (or has ownership on Oracle Weblogic home directory)

Ensure OBAPI installation details (OBAPI DB; WLS etc) are maintained in installer.properties and user running the installer has read-write permissions.

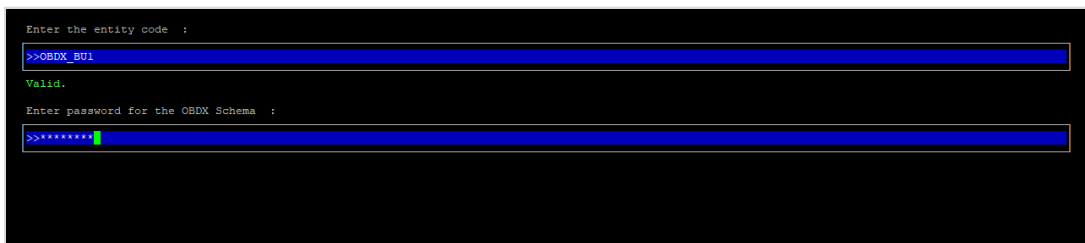
- From your terminal navigate to <OBAPI INSTALLER DIR>
- Enter the following command

```
python runInstaller.py
```

Select installation type as 'New Entity Creation'



Below screen will appear after selecting add entity



Enter below information:

- Entity code which has been added from screen
- OBAPI schema password

If an entity code belongs to UBS / OBPM host following screen (below screenshot are for OBPM ; for UBS same input are required) will appear:

```

Enter the OBPM143 DB hostname :
>>

Enter the OBPM143 DB port :
>>

Enter the OBPM143 SID :
>>

Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
>>

Enter the username with 'sys' privileges :
>>

Enter password for the user with sys privileges :
>>

Enter existing weblogic admin password :
>>

Use (f/l) keys to navigate between questions and press 'enter' after editing them

```

```

Enter the OBPM143 DB hostname :
>>mumaa012.in.oracle.com
Valid.

Enter the OBPM143 DB port :
>>1520
Valid.

Enter the OBPM143 SID :
>>obdkhst.in.oracle.com
Valid.

Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
>>TBS_DIR
Valid.

Enter the username with 'sys' privileges :
>>sys
Valid.

Enter password for the user with sys privileges :
>>*****
Valid.

Enter existing weblogic admin password :
>>*****
Valid.

Use (f/l) keys to navigate between questions and press 'enter' after editing them

```

Enter below details:

- Hostname of the database host server
- Port of the database host server
- Host database Service Name
- Oracle directory name in which you want the database datafile (dbf) to be created. Enter only the name NOT the path.
- Username with 'sys' privileges
- SYS privilege user password where UBS schema would be created
- Weblogic console administrator user password

```
Enter the existing OBPM143 host schema name :
>>

Enter the password for existing OBPM143 host schema :
>>

Enter new OBPM143 BIAl schema name :
>>

Enter new schema password :
>>

Enter country code :
>>

Use (f/i) keys to navigate between questions and press 'enter' after editing them
```

Enter below details:

- EXISTING Host schema name
- Password for EXISTING schema
- Complete EHMS (HostInterface) schema name you want installer to create as new schema
- Password for New schema
- Country Code of entity branch

Installation Status in case of UBS / OBPM

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

```

@obdxwls/obpm/obdx/v4/COBX_181000
[devops@obdxwls ~]$ python runinstaller.py

Starting UBS Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Role Created
Executing Grants...
Execution of table_scripts.sql started
Execution of table_scripts.sql completed
Execution of ubx_object_scripts.sql started
Execution of ubx_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS database
Executed DUX_FW_CONFIG_ALL_0.sql successfully

Starting Entity Configuration

Calling WLST

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Connecting to t3://obdxwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OBXK181000".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit().
For more help, use help("edit").

Creating Data source OBXK_BUI_BI1A1

```

When the installation completes, the below message is displayed

```

@obdxwls/obpm/obdx/v4/COBX_181000

Execution of ubx_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS database
Executed DUX_FW_CONFIG_ALL_0.sql successfully

Starting Entity Configuration

Calling WLST

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Connecting to t3://obdxwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OBXK181000".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit().
For more help, use help("edit").

Creating Data source OBXK_BUI_BI1A1
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBXK_BUI_BI1A1 created successfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.
[devops@obdxwls ~]$

```

Post successful installation refer to “Section 8: Post Installation steps” for manual steps to be performed for UBS additional entity (sub-section : Oracle FLEXCUBE Universal Banking (OBAPI with UBS)).

If an entity code belongs to Third-party host following screen will appear:

```
[devops@ OBDX_Installer]$ export Entity_Code=OBDX_BU1
[devops@ OBDX_Installer]$ export SCHEMA_PASS=welcome1
[devops@ OBDX_Installer]$ export FLAVOUR=OBDX
[devops@ OBDX_Installer]$ python runInstaller.py --silent --addEntity
Password validated for OBDX_183INS
Execution of DB script for OBDX_BU1 started
Executed DIGX_FW_CONFIG_ALL_O.sql successfully
Execution completed.
[devops@ OBDX_Installer]$ █
```

No additional steps/ configuration are required.

If an entity code belongs to Oracle FLEXCUBE Core Banking host following screen will appear:

```

Enter the FCORE DB hostname :
>>

Enter the FCORE DB port :
>>

Enter the FCORE SID :
>>

Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
>>

Enter the username with 'sys' privileges :
>>

Enter password for the user with sys privileges :
>>

Enter existing weblogic admin password :
>>

Use (/;) keys to navigate between questions and press 'enter' after editing them

```

```

Enter the FCORE DB hostname :
>>mumaa012.in.oracle.com
Valid.

Enter the FCORE DB port :
>>1520
Valid.

Enter the FCORE SID :
>>obdkhst.in.oracle.com
Valid.

Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
>>TBS_DIR
Valid.

Enter the username with 'sys' privileges :
>>sys
Valid.

Enter password for the user with sys privileges :
>>*****
Valid.

Enter existing weblogic admin password :
>>*****
Valid.

Use (/;) keys to navigate between questions and press 'enter' after editing them

```

Enter below details:

- Hostname of the FCORE database host server
- Port of the FCORE database host server
- FCORE Host database Service Name
- Oracle directory name in which you want the database datafile (dbf) to be created. Enter only the name NOT the path.
- Username with 'sys' privileges
- SYS privilege user password where FCORE schema would be created

- Weblogic console administrator user password

```

Enter the existing FCR schema name :
>>

Enter the existing FCUBS schema name :
>>

Enter new FCORE schema name :
>>

Enter new schema password :
>>

Use (f/i) keys to navigate between questions and press 'enter' after editing them

```

```

Enter the existing FCR schema name :
>>FCRHOST
Valid.

Enter the existing FCUBS schema name :
>>FCRUBSHOST
Valid.

Enter new FCORE schema name :
>>FCRHSTSTI
Valid.

Enter new schema password :
>>*****
Valid.

Use (f/i) keys to navigate between questions and press 'enter' after editing them

```

Enter below details:

- EXISTING FCORE HOST schema name
- EXISTING FCORE FCUBS schema name
- Complete EHMS (HostInterface) schema name you want installer to create as new schema
- Password for New EHMS schema

Installation status for FCORE Add entity

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

```
[devops] OBDX_Installer] python runInstaller.py --silent --addEntity
Password validated for OBDX_1031NS
Password validated for sys
Starting FOORE Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Roles Created
Executing Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of foore_object_scripts.sql started
```

```
@obdxwls/scratch/obdx/OBDX_Installer
Execution of foore_object_scripts.sql started
Execution of foore_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed FOORE database
Starting Entity Configuration
Calling WLST
Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
Connecting to t3://obdxwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OBDX1031NS".
Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.
Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit().
For more help, use help('edit').
Creating Data source OBDX_BUI_BIAl
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDX_BUI_BIAl created successfully.
Exiting WebLogic Scripting Tool.
Entity successfully configured.
[devops@obdxwls OBDX_Installer]$
```

No additional steps/ configuration are required.

Post successful installation refer to “Section 8: Post Installation steps” for manual steps to be performed for OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM)).

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12. Multi-entity installation using Silent Mode

This chapter describes how to run the OBAPI installer for add entity in silent mode.

Ensure that Managed server should be down and Admin server should be running.

Ensure ORACLE_HOME, JAVA_HOME variable are set and their binaries are available in PATH variable before proceeding.

Login with OS user which was used to perform OBAPI software installation (or has ownership on Oracle Weblogic home directory)

Steps for Silent-Mode Installation

- Set the environment variables, as shown below.

```

OBDX_Installer]$ export Entity_Code=OBDX_BU7
OBDX_Installer]$ export SCHEMA_PASS=welcome1
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_HOSTNAME=hostname.in.oracle.com
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_PORT=1520
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_SID=obdxdb.in.oracle.com
OBDX_Installer]$ export ENTITY_EHMS_DBA_DIRECTORY_NAME=TBS_DIR
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_SYS_USER=sys
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_SYS_PASS=welcome1
OBDX_Installer]$ export ENTITY_EHMS_SCHEMA_NAME=welcome1
OBDX_Installer]$ export ENTITY_EHMS_SCHEMA_PASS=welcome1
OBDX_Installer]$ export ENTITY_EHMS_HOST_SCHEMA_NAME=FCUBS140
OBDX_Installer]$ export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=welcome1
OBDX_Installer]$ export WLS_DOMAIN_PASS=welcome1
OBDX_Installer]$ export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=FCUBS140
OBDX_Installer]$ export ENTITY_EHMS_CCY=GB
OBDX_Installer]$ python runInstaller.py --silent --addEntity

```

Below parameters should be set in environment variables

	Parameter	Description	Example
Environment variables to set for flavor: FCORE	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU7
	SCHEMA_PASS	Password for existing OBAPI schema	export SCHEMA_PASS=devops#obapi182
	ENTITY_EHMS_DATABASE_HOSTNAME	Hostname of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_HOSTNAME=xx.xx.xx.xx

	Parameter	Description	Example
UBS (14.4.0.0.0 release) OBPM (14.4.0.0.0 release)	ENTITY_EHMS_DATABASE_PORT	Port of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_PORT=1521
	ENTITY_EHMS_DATABASE_SID	EHMS Host database Service Name	export ENTITY_EHMS_DATABASE_SID=obapidb.in.oracle.com
	ENTITY_EHMS_DBADIRECTORY_NAME	Oracle Directory name in which you want the EHMS (HostInterface) schema datafile (dbf). Enter only the name and NOT the path	export ENTITY_EHMS_DBADIRECTORY_NAME=TBS_DIR
	ENTITY_EHMS_DATABASE_SYS_USER	Username with 'sys' privileges	export ENTITY_EHMS_DATABASE_SYS_USER=sys
	ENTITY_EHMS_DATABASE_SYS_PASS	Password for EHMS sys user	export ENTITY_EHMS_DATABASE_SYS_PASS=devops@sys
	ENTITY_EHMS_SCHEMA_NAME	Complete EHMS (HostInterface) schema name you want installer to create as new schema.	export ENTITY_EHMS_SCHEMA_NAME=OBAPIEHMS
	ENTITY_EHMS_SCHEMA_PASS	Password for new EHMS schema on EHMS HOST database	export ENTITY_EHMS_SCHEMA_PASS=devops#ehms

	Parameter	Description	Example
	ENTITY_EHMS_HOST_SCHEMA_NAME	EXISTING EHMS Host schema name	export ENTITY_EHMS_HOST_SCHEMA_NAME=EHMSHOST
	ENTITY_EHMS_HOST_SCHEMA_NAME_PASS **This parameter is only required for UBS & OBPM Host	Password of existing HOST EHMS schema (Existing)	export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=ehmshst
	WLS_DOMAIN_PASS	Password for Weblogic admin console	export WLS_DOMAIN_PASS=weblogic182
	ENTITY_EHMS_CCY **This parameter is only required for UBS & OBPM Host	Country Code for new or additional entity home branch	export ENTITY_EHMS_CCY=GB
	ENTITY_EHMS_FCORE_FCUBS_SCHEMA_NAME **This parameter is only required for FCORE	FCORE-FCUBS HOST schema name	export ENTITY_EHMS_FCORE_FCUBS_SCHEMA_NAME=FCRUBSHOST
Environment variables to set for flavor: OBAPI (Third-party HOST)	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU1
	SCHEMA_PASS	Password for existing OBAPI schema	export SCHEMA_PASS=welcome1

- Run the runInstaller.py file with '--silent' argument along with '--addEntity'

```

[devops@ /]$
[devops@ /]$ export Entity_Code=OBDX_BU7
[devops@ /]$ export SCHEMA_PASS=devops#obdx182
[devops@ /]$ export ENTITY_EHMS_DATABASE_HOSTNAME=mumaa012.in.oracle.com
[devops@ /]$ export ENTITY_EHMS_DATABASE_PORT=1521
[devops@ /]$ export ENTITY_EHMS_DATABASE_SID=obdxdb.in.oracle.com
[devops@ /]$ export ENTITY_EHMS_DBA_DIRECTORY_NAME=TBS_DIR
[devops@ /]$ export ENTITY_EHMS_DATABASE_SYS_USER=sys
[devops@ /]$ export ENTITY_EHMS_DATABASE_SYS_PASS=devops@sys
[devops@ /]$ export ENTITY_EHMS_SCHEMA_NAME=OBDXEHMS
[devops@ /]$ export ENTITY_EHMS_SCHEMA_PASS=devops#ehms
[devops@ /]$ export ENTITY_EHMS_HOST_SCHEMA_NAME=FCUBS140
[devops@ /]$ export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=FCUBS140HST
[devops@ /]$ export WLS_DOMAIN_PASS=weblogic182
[devops@ /]$ export ENTITY_EHMS_CCY=GB
[devops@ /]$ python runInstaller.py --silent --addEntity

```

Installation Status in case of Oracle FLEXCUBE Core Banking, Oracle FLEXCUBE Universal Banking, Oracle FLEXCUBE Universal Banking with Oracle Banking Payments

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

```

@obdewls/scratch/obdx/OBDX_Installer
Execution of uba_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS141 database
Executed DIGX_FW_CONFIG_ALL_0.sql successfully

Starting Entity Configuration

Calling WLST

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Connecting to t3://obdewls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OBDX183INS".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit().
For more help, use help('edit').

Creating Data source OBDX_BUI_BIA1
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Reversing all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDX_BUI_BIA1 created successfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.

```

When the installation completes, the below message is displayed

```

@ebdewts/scratch/obdx/OBDX_Installer
Execution of ubx_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS1a1 database
Executed DIGX_FW_CONFIG_ALL_0.sql successfully

Starting Entity Configuration

Calling WLST

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Connecting to t3://obdxwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OBDM1831NS".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit().
For more help, use help('edit').

Creating Data source OBDX_BUI_B1A1
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDX_BUI_B1A1 created successfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.

```

Post successful installation refer to “Section 8: Post Installation steps” for manual steps to be performed for

- UBS additional entity (sub-section : Oracle FLEXCUBE Universal Banking Solution (OBAPI with UBS))
- OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM))

Installation Status in case of other hosts as Add Entity

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

- THP(third party as entity)

```

[devops@ ~]$ cd OBDX_Installer; python runInstaller.py --silent --addEntity
Password validated for OBDX_1831NS
Execution of DB scripts for OBDX_BUI started
Executed DIGX_FW_CONFIG_ALL_0.sql successfully
Execution completed.

```

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13. OBAPI Product Security

Refer below document for OBAPI product security configuration

Oracle Banking Digital Experience Security Guide

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14. OBAPI Product – Best Practice

14.1 Tablespace for AUDIT INDEX

The index's used by AUDIT table should be moved into new tablespace from current AUDIT tablespace.

Follow below steps

- Create a new tablespace
- Give quota to OBAPI schema

```
alter user <OBAPI_SCHEMA> quota unlimited on  
<OBAPI_AUDIT_INDEX_TABLESPACE>;
```

- Drop and create below index by mapping the newly created tablespace
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_API_AUDIT_LOGGING.sql
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_API_AUDIT_LOG_HIST.sql
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGING.sql
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGING_1.sql
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGING_2.sql
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGING_3.sql
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGING_4.sql
 - OBAPI_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGING_DETAILS.sql

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15. JPA and OBAPI multi-cluster

In a multi-cluster environment, below JPA related changes should be implemented

- Go to Weblogic server
- Open config\META-INF\persistence.xml
- Append below configuration for all data-source

```
<property name="eclipselink.cache.coordination.jms.host" value="t3://<WEBLOGIC-HOST-NAME OR IP>:<MANAGED-SERVER-PORT>/" />
```

Replace with respective hostname or IP and Port no (this should be the managed server port number which hosts the JPA queues in the cluster)

Key pointers;

- Multi-cluster here refer's to :
 - Single cluster with multiple nodes (2 or more physical servers hosting the OBAPI product)
 - 2 or more Weblogic cluster's
- Ensure these (persistence.xml) changes are available to all Managed server by maintaining appropriate classpath

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16. Troubleshoot Overview

This section describes how to troubleshoot OBAPI setup.

Invalid database password

This topic contains troubleshooting information if you receive an error when attempting to connect to the database server.

If you get the following error:



```

Oracle Banking Digital Experience

Enter the password for the user with sys privileges 'sys' :
>>*****
Invalid input. Please enter a valid password.

```

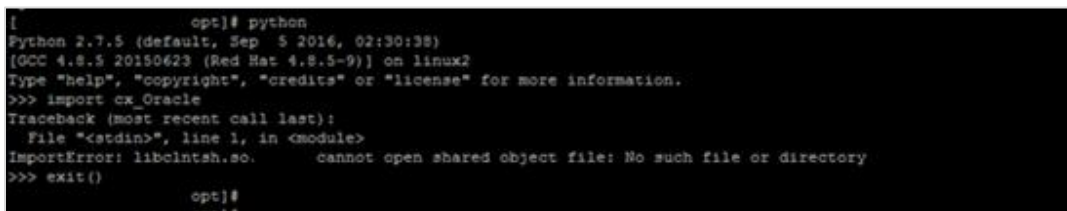
Try one of the following:

- Verify that the database is running.
- Check Network connectivity between Weblogic Server and Database server.
- Check the database configuration in installer.properties file
- Verify that the entered password is correct.

cx_oracle module

This topic contains troubleshooting information about problems with cx_Oracle python module.

If you get the following error:



```

[ opt]# python
Python 2.7.5 (default, Sep  5 2016, 02:30:38)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-9)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import cx_Oracle
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ImportError: libclntsh.so.12.1 cannot open shared object file: No such file or directory
>>> exit()

[ opt]#

```

Execute the below command:

```
export LD_LIBRARY_PATH=/usr/lib/oracle/19.3/client64/lib:$LD_LIBRARY_PATH
```

```
python
```

```
import cx_Oracle
```

```
cx_Oracle.__version__
```

```
[devops@ /]$ export LD_LIBRARY_PATH=/usr/lib/oracle/18.3/client64/lib:$LD_LIBRARY_PATH
[devops@ /]$ python
Python 2.7.5 (default, Apr 11 2018, 17:41:36)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-28.0.1)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import cx_Oracle
>>> cx_Oracle.__version__
'7.3.0'
```

Failed Database Scripts

This topic contains troubleshooting information in case of database script failures.

If you get the following error in DB_installation.log:

```
2017-07-13 13:45:41,051 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTFORMATS.sql successful
2017-07-13 13:45:41,081 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/mstdevice.sql successful
2017-07-13 13:45:41,747 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTENTITYUSERYPELANG.sql successful
2017-07-13 13:45:41,796 ERROR Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/mstlang.sql failed
```

Check the detailed log of the failed SQL file at <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db folder.

Failure of Policy Seeding

This topic contains troubleshooting information if policy seeding fails during installation.

If you get the following error:

```
Policy seeding failed. Please see logs for more details
```

Try one of the following:

Check if Entitlement.log is created on following path <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ and contains any SEVERE errors for Entitlement policy seeding.

Check if Task.log is created on following path <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ and contains any SEVERE errors for Task policy seeding.

Check if Dashboard_seed.log is created on following path <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ and contains any SEVERE errors for Dashboard policy seeding.

- Check the seedPolicies.log in <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ directory if it contains any runtime errors generated during execution of the policies Seeding in OBAPI schema

Fix the problem by following below steps:

- Login to OBAPI installer server
- Over-write the policies files (Day0Policy.csv; Entitlement.csv; Resources.csv and Task.csv) from OBAPI Product zip into <OBAPI INSTALLER DIR>/installables/policies directory
- Browse to <OBAPI INSTALLER DIR>\installables\policies
- Edit Entitlement_log4j.properties , Task_log4j.properties & Dashboard_seed_log4j.properties . Replace <logs_path> with directory where policy seeding logs will be generated

e.g

```

#####
# default file output is in user's home directory.
#java.util.logging.FileHandler.pattern = %h/java%.log
java.util.logging.FileHandler.pattern = <logs_path>/Task.log
java.util.logging.FileHandler.limit = 50000
java.util.logging.FileHandler.count = 1
#java.util.logging.FileHandler.formatter = java.util.logging.XMLFormatter
java.util.logging.FileHandler.formatter = java.util.logging.SimpleFormatter
java.util.logging.SimpleFormatter.format= [%1$tc] %4$s: %2$s - %5$s %6$s%n

# Limit the message that are printed on the console to INFO and above.
java.util.logging.ConsoleHandler.level = OFF
java.util.logging.ConsoleHandler.formatter = java.util.logging.SimpleFormatter

#####
# default file output is in user's home directory.
#java.util.logging.FileHandler.pattern = %h/java%.log
java.util.logging.FileHandler.pattern = /scratch/Task.log
java.util.logging.FileHandler.limit = 50000
java.util.logging.FileHandler.count = 1
#java.util.logging.FileHandler.formatter = java.util.logging.XMLFormatter
java.util.logging.FileHandler.formatter = java.util.logging.SimpleFormatter
java.util.logging.SimpleFormatter.format= [%1$tc] %4$s: %2$s - %5$s %6$s%n

```

- Run below command manually if “SEVERE” error logs are found in Task.log

```
java -jar -Djava.util.logging.config.file='<logs.properties>' com.ofss.digx.utils.feed.data.task.jar
"Task.csv" "oracle.jdbc.OracleDriver,<OBAPI Schema name>,<OBAPI Schema
password>,jdbc:oracle:thin:@<OBAPI DB hostname or IP>:<OBAPI DB listener port>/<OBAPI
Service Name>"
```

for e.g.:

```
java -jar -Djava.util.logging.config.file='Task_log4j.properties'
com.ofss.digx.utils.feed.data.task.jar 'Task.csv'
"oracle.jdbc.OracleDriver,OBAPI_THP181,Welcome#1,jdbc:oracle:thin:@
xx.xx.xx.xx:1521/OBAPI"
```

- Run below command manually if “SEVERE” error logs are found in Entitlement.log

```
java -jar -Djava.util.logging.config.file='<logs.properties>'
com.ofss.digx.utils.entitlement.feed.data.jar 'Resources.csv,Entitlement.csv,Day0Policy.csv'
'KERNEL' "oracle.jdbc.OracleDriver,<OBAPI Schema name>,<OBAPI Schema
password>,jdbc:oracle:thin:@<OBAPI DB hostname or IP>:<OBAPI DB listener port>/<OBAPI
Service Name>"
```

for e.g.:

```
java -jar -Djava.util.logging.config.file='Entitlement_log4j.properties'
com.ofss.digx.utils.entitlement.feed.data.jar 'Resources.csv,Entitlement.csv,Day0Policy.csv'
'KERNEL' "oracle.jdbc.OracleDriver,OBAPI_THP201,Welcome#1,jdbc:oracle:thin:@
xx.xx.xx.xx:1521/OBAPI"
```

Note: Please remove the space between multiple csv's if there is any.

- Run below command manually if “SEVERE” error logs are found in Dashboard_seed.log

```
java -jar -Djava.util.logging.config.file='<logs.properties>' com.ofss.digx.utils.dashboard.jar
'<path>/ dashboard_json' "oracle.jdbc.OracleDriver,<OBAPI Schema name>,<OBAPI Schema
password>,jdbc:oracle:thin:@<OBAPI DB hostname or IP>:<OBAPI DB listener port>/<OBAPI
Service Name>"
```

for e.g.:

```
java -jar -Djava.util.logging.config.file= Dashboard_seed_log4j.properties'
com.ofss.digx.utils.dashboard.jar '/installables/policies/dashboard_json'
"oracle.jdbc.OracleDriver,OBAPI_THP201,Welcome#1,jdbc:oracle:thin:@xx.xx.xx.xx:1521/OBAPI
"
```

- Post successfully execution, restart Managed server.

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