

Oracle Banking Digital Experience

**Installation Guide
Release 19.1.0.0.0**

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Table of Contents

1. Preface.....	4
2. Introduction.....	6
3. Prerequisites.....	7
4. Installation.....	9
5. Installation using Silent Mode.....	24
6. Installer Verification	29
7. Installer Scope.....	30
8. Post Installation Steps.....	35
9. OBDX Product Verification.....	75
10. Configuration for OUD/OAM	78
11. Multi Entity.....	91
12. Multi-entity installation using Silent Mode.....	102
13. OBDX Product Security	107
14. OBDX Product – Best Practice	108
15. JPA and OBDX multi-cluster.....	109
16. Troubleshoot Overview	110
17. Wallet Configuration	115

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>.

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<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 cover following:

- Introduction
- Prerequisites
- Installation
- Post Installation Steps
- Product Verification
- Multi-Entity Installation and configuration
- Best Practice
- Troubleshoot Overview

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 19.1.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Licensing Guide
- Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual
- Oracle Banking Digital Experience Origination Social Media Integration
- Oracle Banking Digital Experience OHS User Interface Configuration
- Oracle Banking Digital Experience Chatbot Configuration
- Oracle Banking Digital Experience Mobile Application Builder-Android

- Oracle Banking Digital Experience Mobile Application Builder-iOS
- Oracle Banking Digital Experience Security Guide
- Oracle Banking Digital Experience System Configuration
- User Manual Oracle Banking Digital Experience Core
- Oracle Banking Digital Experience File Upload Report Configuration

2. Introduction

2.1 Purpose of the Document

The purpose of the OBDX 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 OBDX & OBDX installer
- Setup of OBDX 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

[Home](#)

3. Prerequisites

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

For OBDX pre-requisite software setup refers document “Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual” mentioned in section 1.5 Related Information Sources.

Installer Pre-requisite verification

Post installation of OBDX 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
```

```
[root@          ]# rpm -qa |grep oracle
oraclelinux-release-7.3-1.0.4.el7.x86_64
oracle-logos-70.0.3-4.0.7.el7.noarch
oracle-instantclient12.2-basic-12.2.0.1.0-1.x86_64
```

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
```

```
[          ]# 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
```

```
>>> import cx_Oracle
>>> cx_Oracle.version
'5.2.1'
```

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

Note: Ensure cx_Oracle 5.2.1 supported version is installed. Above command should reflect the same.

[Home](#)

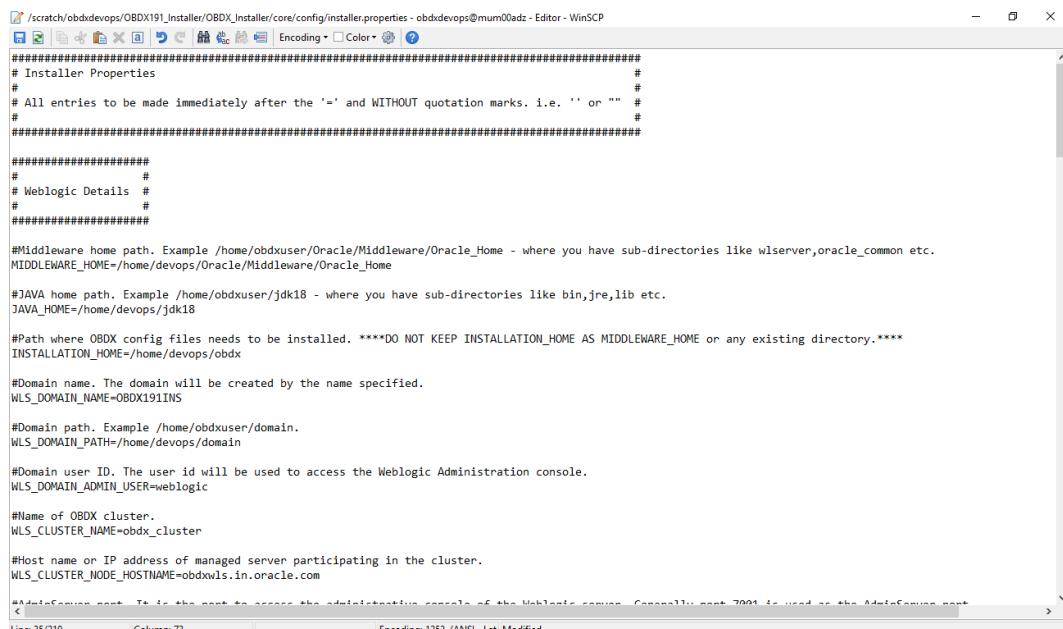
4. Installation

Pre-Installation

- Install all the prerequisite software and packages mentioned above

Steps of Installation

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



```

/scratch/obdxdevops/OBDX191_installer/OBDX_Installer/core/config/installer.properties - obdxdevops@mum00adz - Editor - WinSCP
Encoding - Color - ? | 
#####
# 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 wlserver,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=OBDX191INS

#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

#AdminServer port. It is the port to access the administration console of the Weblogic server. Generally port 7001 is used as the AdminServer port
<ADMINERVER_PORT=7001>
Line 35/210    Column: 73    Encoding: 1252 (ANSI - Lat Modified)

```

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

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

Component	Parameter	Description	Example
DB details (for Weblogic RCU and OBDX schema)	OBDX_DATABASE_HOSTNAME	Enter the hostname of the database server which would host the database schema for OBDX and Weblogic RCU	ofss310759
	OBDX_DATABASE_PORT	Enter the port number of the database listener	1521
	OBDX_DATABASE_SID	Enter the Oracle Service Name for database instance	obdxdbs.in.oracle.com
	OBDX_DATABASE_SYS_USER	Enter the username with 'sys' privileges	Sys
	POST_FIX	For OBDX schema name like "OBDX_DEV" POST FIX is 'DEV'. SHOULD BE IN UPPERCASE ONLY.	DEV
	OBDX_DB_A_DIRECTORY_NAME	Enter the directory name in which you want the OBDX schema tablespace datafile to be created. Enter Logical name (i.e. DIRECTORY_NAME column) from DBA_DIRECTORIES table NOT the physical path.	OBDX_DIR
	OBDX_AUDIT_DB_A_DIRECTORY_NAME	Enter the directory name in which you want the OBDX AUDIT tablespace datafile to be created. Enter Logical name (i.e. DIRECTORY_NAME column) from DBA_DIRECTORIES table NOT the physical path.	OBDX_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	ofss310759
	EHMS_DATABASE_PORT	Enter the port number of EHMS database listener	1521
	EHMS_SCHEMA_NAME	Enter the Complete OBDX-EXT (B1A1) HostInterface schema name	EHMS182SCHEMA

	E	you want installer to create as new schema. SHOULD BE IN UPPERCASE ONLY.	
	EHMS_DBA_DIRECT ORY_NAME	Enter the directory name in which you want the OBDX-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_S YS_USER	Enter the username with 'sys' privileges	Sys
	EHMS_DATABASE_S ID	Enter the EHMS database Service Name	obdxeahms.in.ora cle.com
	EHMS_HOST_SCHEM A_NAME	Enter the EXISTING EHMS HOST schema name	OBDXUBS
	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_FCU BS_SCHEMA_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/obdxuser/Oracle/Middleware/Oracle_Home - where you have sub-directories like wlserver,oracle_common etc.	/home/obdxuser/Oracle/Middleware/Oracle_Home
	JAVA_HOME	Path where JAVA (JDK) is installed	/home/obdxuser/jdk18
	INSTALLATION_HOME	Path where OBDX 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/obdxuser/obdx
	WLS_DOMAIN_PATH	Path where OBDX Weblogic domain should be created. Users can now enter custom path as per their requirements.	/home/obdxuser/domains
	WLS_CLUSTER_NAME	Name of cluster; this cluster would have one single managed server.	obdx_cluster
	WLS_CLUSTER_NODE_HOSTNAME	Host name or IP address of managed server participating in the cluster. Currently only single node is supported.	ofss310759
	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 OBDX domain. Generally, 5556 is utilized as Node Manager Port. Custom ports are supported.	5556

	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 OBDX components and associated resources. Custom ports are supported.	9001
	WLS_DOMAIN_NAME	Enter Weblogic Domain name.	obdx_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 OBDX 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/obdx/FileUpload
	WLS_JMS_AUDIT_PS (to be configured for all OBDX 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/obdx/Audit
	WLS_JMS_REPORT_PS (to be configured for all OBDX 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/obdx/Reports
	WLS_JMS_JPA_PS (to be configured for all OBDX 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/obdx/JPA
	WLS_JMS_EXTSYSRECEIVER_PS (to be configured for all OBDX 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/obdx/Receiver

	WLS_JMS_EXTSYSSENDER_PS (to be configured for all OBDX 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/obdx/Sender
RCU	OBDX_RCU_STB_PREFIX	STB schema name prefix. If schema pre-fix is 'OBDX' then 'OBDX_STB' would be the STB schema name.	OBDX_STB
OBDX Application Administrator user details	OBDX_ADMIN_USERNAME	Set username for OBDX 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
	OBDX_ADMIN_EMAIL	Enter the Email ID for OBDX application admin user.	superadmin@oracle.com
	OBDX_ADMIN_CONTACT_NO	Enter the mobile number for OBDX application admin user. COUNTRY CODE IS MUST.	+911234567890

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 OBDX pre-requisite software installation (or has ownership on Oracle Weblogic home directory)

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

Installation Steps:

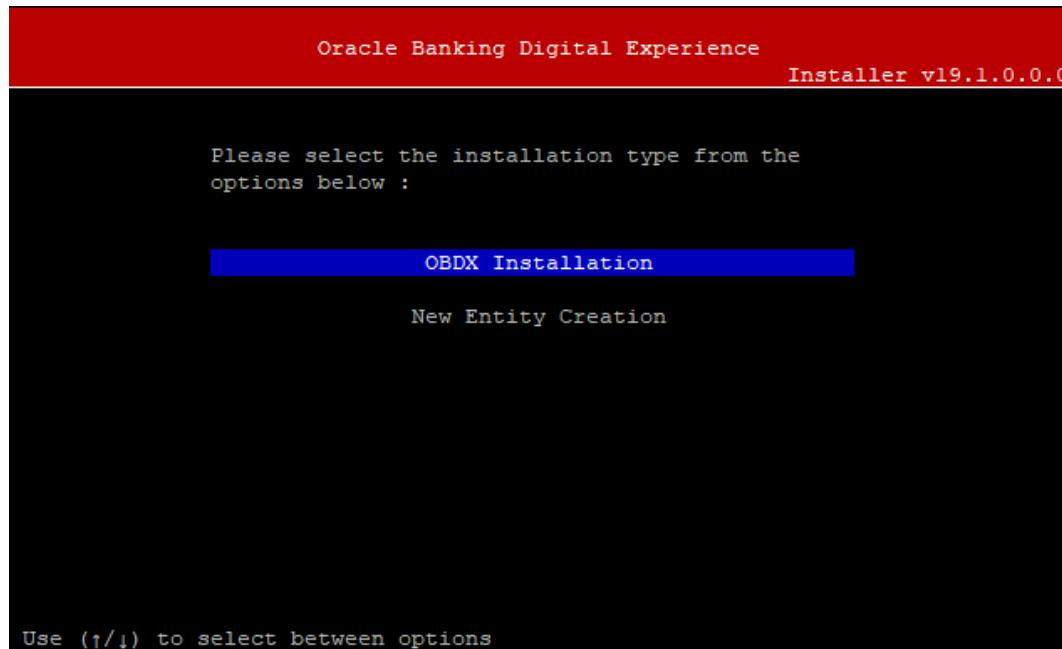
- From your terminal navigate to <OBDX INSTALLER DIR>/

```
[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

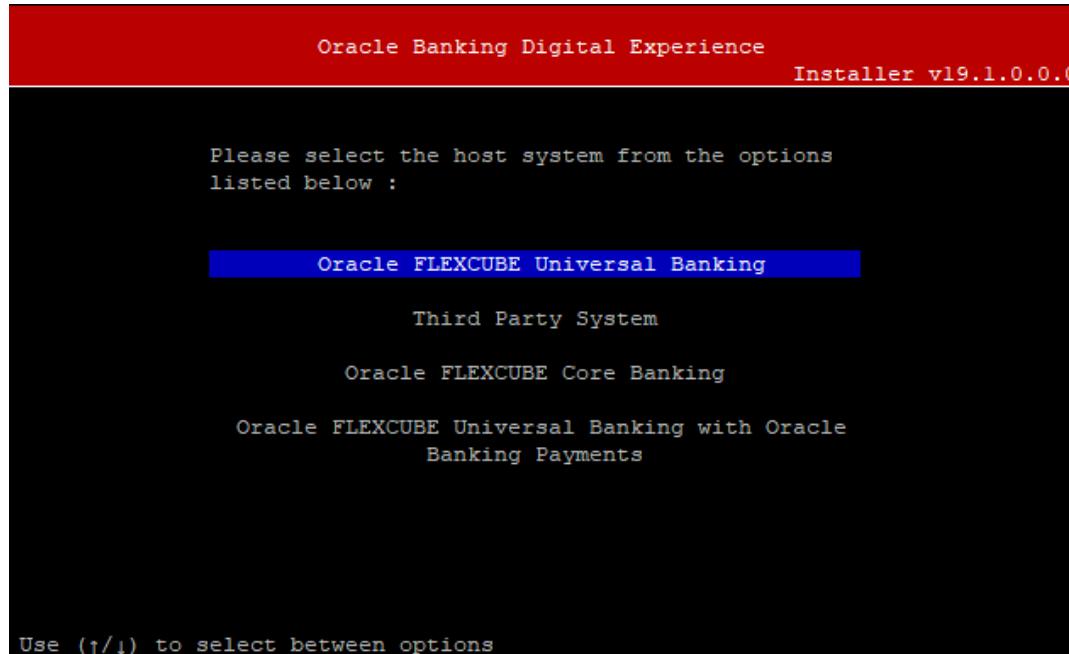
Select the appropriate type of Installation



- OBDX 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.

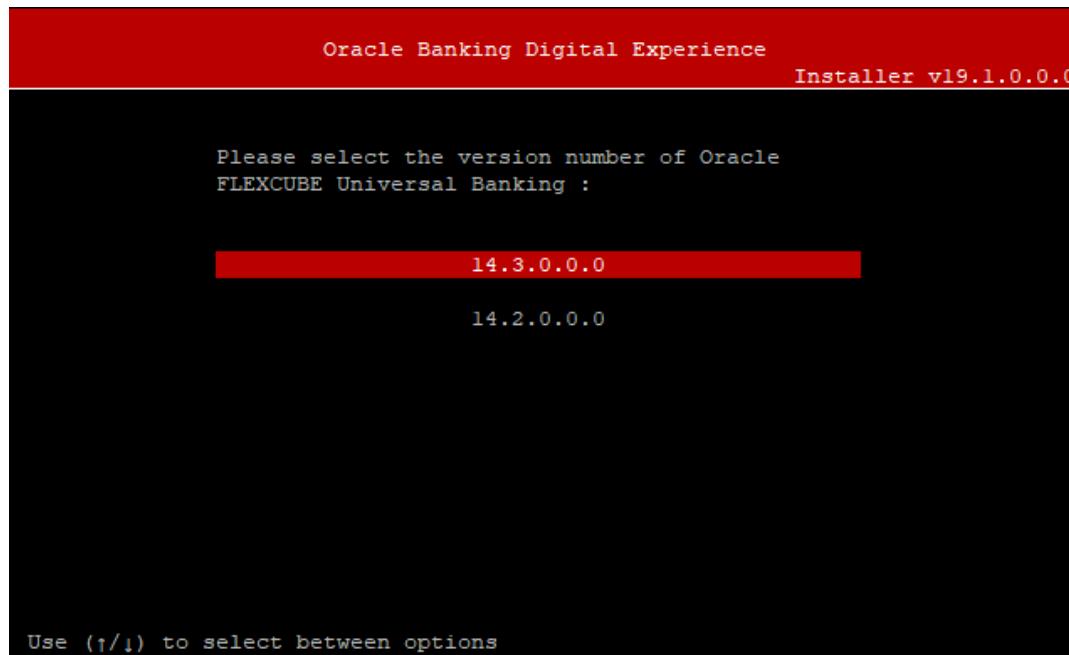
Post selection of installation type.

Select the appropriate host system for Installation

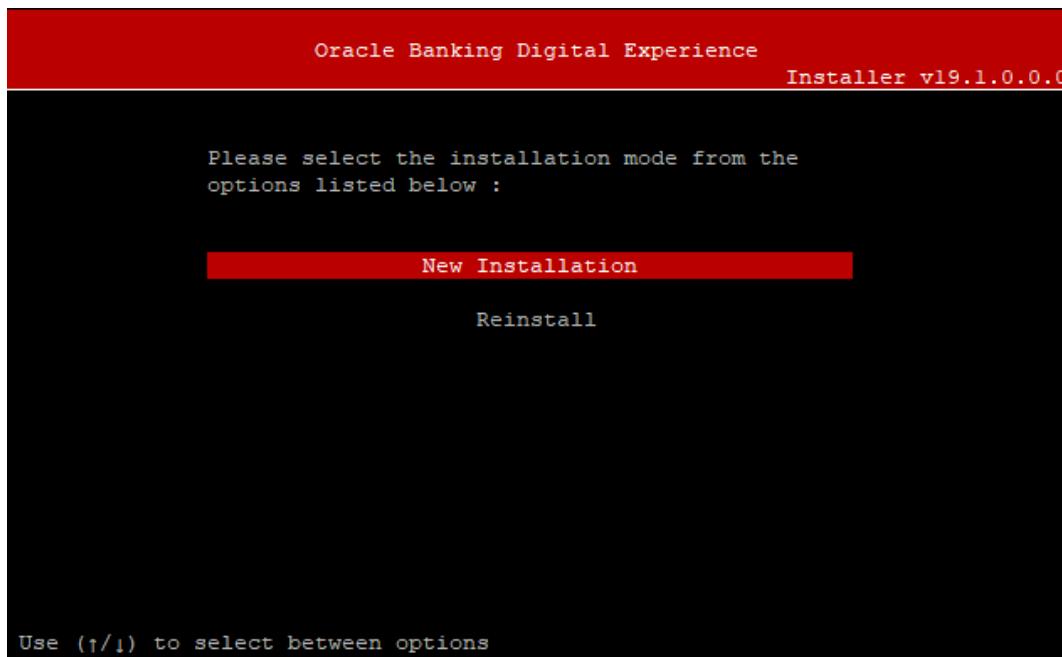


Oracle FLEXCUBE Universal Banking (OBDX with UBS)

Select the version of UBS HOST system from available options



Post UBS HOST version selection, Select Installation mode

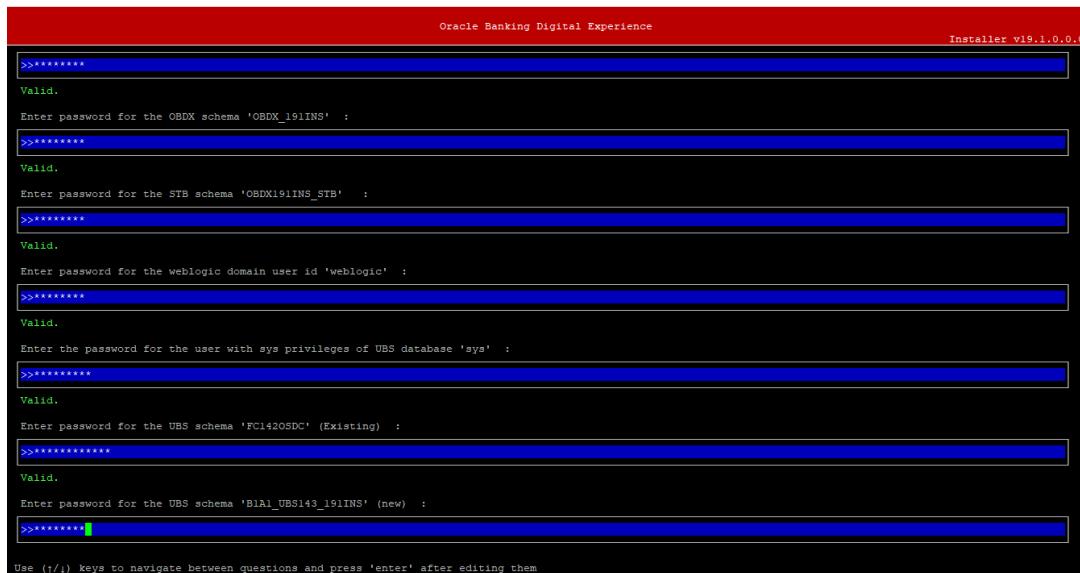


Mode of Installation - New Installation

- New installation

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

Below screens would appear to taken end-user input

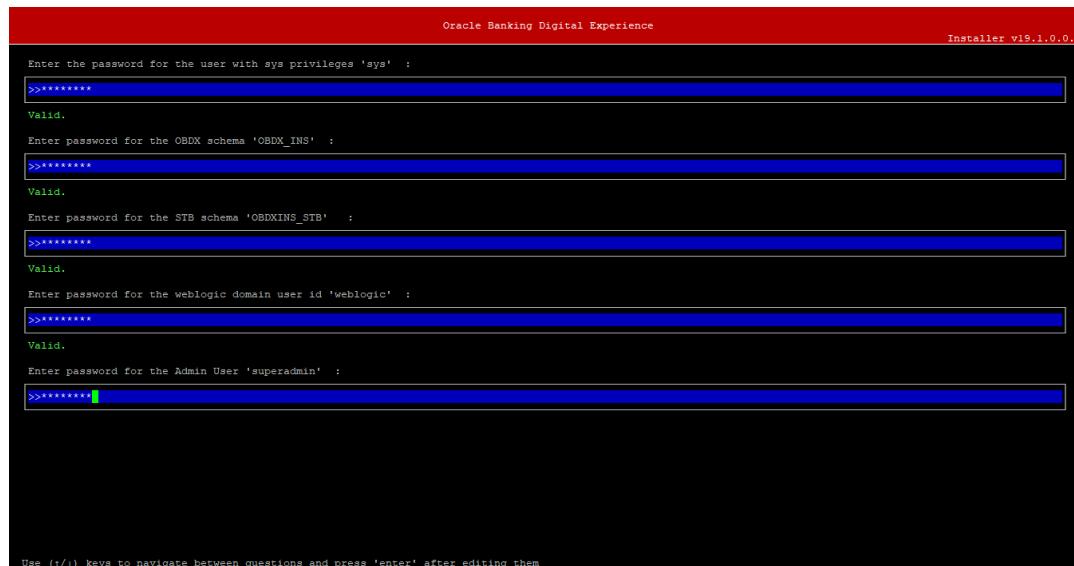


Enter below passwords:

- SYS privilege user password where OBDX schema would be created
- OBDX schema password
- OBDX STB schema password
- Weblogic console administrator user password
- SYS privilege user password where UBS host schema exists
- Existing UBS HOST schema password
- New OBDX EHMS schema password
- Password for OBDX 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 (OBDX with THP)

Post Third Party System selection, enter the required credentials details



```
Oracle Banking Digital Experience
Installer v19.1.0.0.0

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' :
>>>>>>
Valid.

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

Enter below passwords:

- SYS privilege user password where OBDX schema would be created
- OBDX schema password
- OBDX STB schema password
- Weblogic console administrator user password

OBDX 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 (OBDX with FCORE)

Post Oracle FLEXCUBE Core Banking, enter the required credentials details



The screenshot shows a terminal window titled "Oracle Banking Digital Experience" with the sub-header "Installer v19.1.0.0.0". The window displays a series of password entries. Each entry is preceded by a prompt and followed by a "Valid." message. The entries are as follows:

- 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 the password for the user with sys privileges of FCR database 'sys' : (Valid)
- Enter password for the FCORE schema 'BI1_FCORE' (new) : (Valid)
- Enter password for the Admin User 'superadmin' : (Valid)

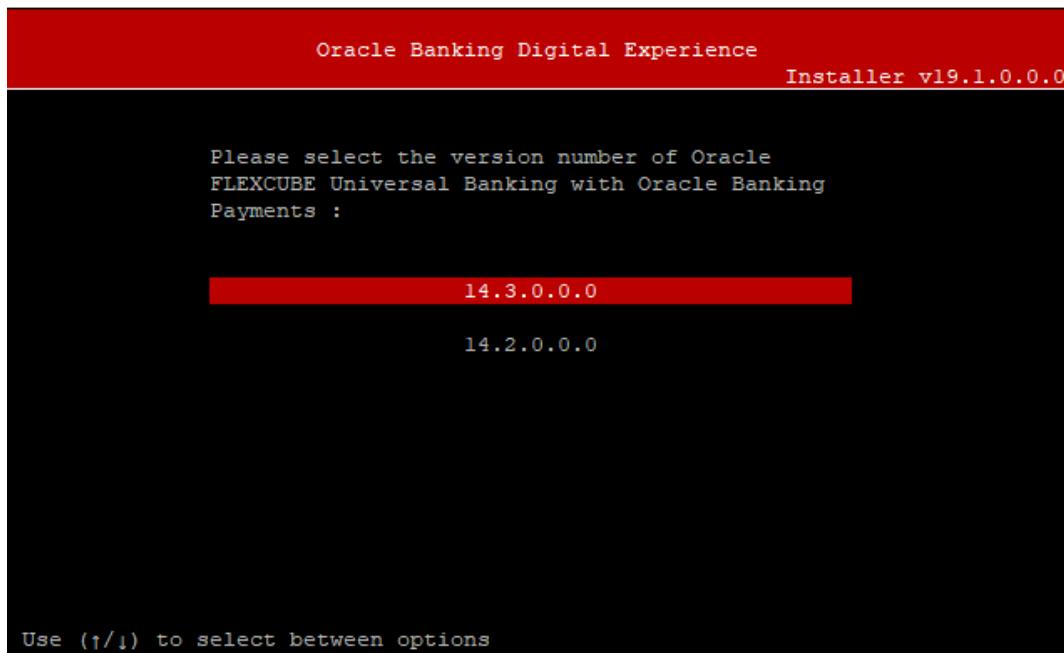
At the bottom of the window, a message reads: "Use (t/j) keys to navigate between questions and press 'enter' after editing them".

Enter below passwords:

- SYS privilege user password where OBDX schema would be created
- OBDX schema password
- OBDX STB schema password
- Weblogic console administrator user password
- SYS privilege user password where FCORE host schema exists
- New OBDX EHMS schema password
- Password for OBDX 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 (OBDX with OBPM)

Select the version of UBS HOST system from available options

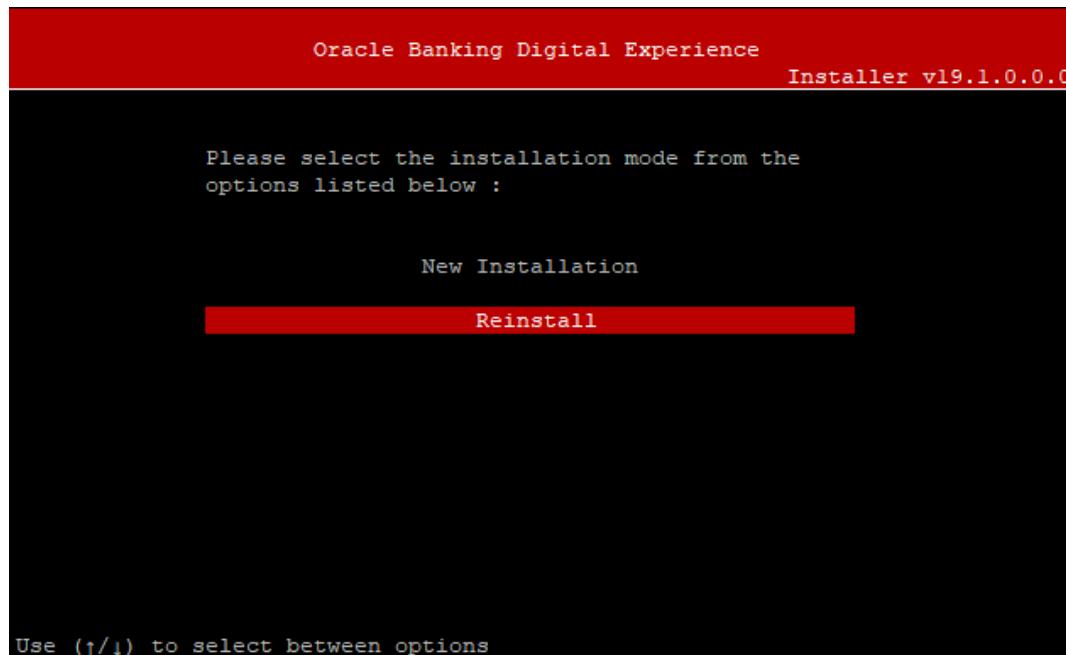


Post selection of Oracle FLEXCUBE Universal Banking with Oracle Banking Payments version, enter the required credentials details



Enter below passwords:

- SYS privilege user password where OBDX schema would be created
- OBDX schema password
- OBDX STB schema password
- Weblogic console administrator user password
- SYS privilege user password where OBPM host schema exists
- Existing OBPM HOST schema password
- New OBDX EHMS schema password
- Password for OBDX 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

In-case of an existing OBDX 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 OBDX database schema (and OBDX EHMS schema in-case of OBDX UBS;OBPM and FCORE flavor) and RCU schema.

Key pointers

- OBDX schema (and OBDX EHMS schema in-case of OBDX 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.

```
(devops@... -) $ python runInstaller.py
>>> STARTING OBDX PRODUCT INSTALLATION <<<

Starting OBDX Database Installation with UBS141 FLAVOR
Tablespace with name OBDX_TS141 and OBDX_AUX1_TS141 exists
Dropping OBDX...
Objects dropped
Schema dropped
Role dropped
Creating OBDX...
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_test_script.sql started
Execution of clip_master_generic_test_script.sql completed
SUCCESSFULLY installed OBDX database

Starting UBS141 Database Installation...
Table space with name TBS_TS141_TS141 exists
Dropping UBS141...
Objects dropped
Schema dropped
Role dropped
Creating UBS141...
User Created
Creating Role...
Role Created
Executing Grants...
Execution of table+scripts.sql started
Execution of table+scripts.sql completed
Execution of ubs_object_scripts.sql started
Execution of ubs_object_scripts.sql completed
```

When the installation completes, the below message is displayed

```

@obdxwls:scratch/obdx/v4/OBDX_18.3.0.0.0
<Dec 15, 2018 7:14:16 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.thirdparty.app.domain [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/obdx.thirdparty.app.domain.ear], to AdminServer obdx_cluster .>
<Dec 15, 2018 7:14:18 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.rest.idm [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/obdx.app.rest.idm.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:19 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, BatchResourceAdapter [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/BatchResourceAdapter.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:19 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, AuditMDBEAR [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/AuditMDBEAR.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:19 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, com.ofss.digx.app.connector [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/com.ofss.digx.app.connector.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:19 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.mdb.report [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/obdx.app.mdb.report.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:20 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.timer [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/obdx.app.timer.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:21 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.oauth [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/obdx/deploy/obdx.app.oauth.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:21 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.app.domain [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/cz/obdx.cz.app.domain.ear], to AdminServer obdx_cluster .>
<Dec 15, 2018 7:14:21 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.extsystem.domain [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/cz/obdx.cz.extsystem.domain.ear], to obdx_cluster AdminServer .>
<Dec 15, 2018 7:14:22 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.thirdparty.app.domain [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/cz/obdx.cz.thirdparty.app.domain.ear], to AdminServer obdx_cluster .>
<Dec 15, 2018 7:14:23 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.soap [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/ubs/deploy/obdx.app.soap.ear], to obdx_cluster .>
<Dec 15, 2018 7:14:23 PM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, ExtifaceSimulatorMDB [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/thp/deploy/ExtifaceSimulatorMDB.ear], to obdx_cluster .>
Applications deployed successfully
Starting AdminServer
AdminServer started
Successfully created and configured OBDX183INS domain
<Dec 15, 2018 7:16:22 PM UTC> <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 <<<

```

[Home](#)

5. Installation using Silent Mode

This chapter describes how to run the OBDX 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 “<OBDX 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

```
OBDX_Installer]$  
OBDX_Installer]$ export FLAVOUR=UBS  
OBDX_Installer]$ export MODE=New  
OBDX_Installer]$ export DB_SYS_PASSWORD=welcomel  
OBDX_Installer]$ export SCHEMA_PASS=welcomel  
OBDX_Installer]$ export STBPassword=welcomel  
OBDX_Installer]$ export DomainPassword=welcomel  
OBDX_Installer]$ export EHMS_DATABASE_SYS_PASS=devopshst  
OBDX_Installer]$ export EHMS_HOST_SCHEMA_NAME_PASS=FC140UBS  
OBDX_Installer]$ export EHMS_SCHEMA_PASS=welcomel
```

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: FCORE; UBS (14.3.0.0.0 and 14.2.0.0.0 release) OBPM(14.3.0.0.0 and 14.2.0.0.0)	FLAVOUR	<p>Flavour for installation</p> <p>UBS for Oracle FLEXCUBE Universal Banking 14.2.0.0.0 (OBDX with UBS)</p> <p>UBS143 for Oracle FLEXCUBE Universal Banking .14.3.0.0.0 (OBDX with UBS)</p> <p>OBPM for Oracle FLEXCUBE Universal Banking with Oracle Banking Payments 14.2.0.0.0 (OBDX with OBPM)</p> <p>OBPM143 for Oracle FLEXCUBE Universal Banking with Oracle Banking Payments 14.3.0.0.0 (OBDX with OBPM)</p> <p>FCORE for Oracle FLEXCUBE Core Banking 11.7.0.0.0 (OBDX with FCORE)</p>	<code>export FLAVOUR=UBS or export FLAVOUR=UBS143 or export FLAVOUR=OBPM or export FLAVOUR=OBPM143 or export FLAVOUR=FCORE</code>
	MODE	Mode of installation. 'New' in-case of a fresh installation of OBDX for the first run on server 'Clean' in-case of an existing OBDX installation that you	<code>export MODE>New or export MODE=Clean</code>

		want to overwrite OR in case of a previously failed installation or re-installation	
	DB_SYS_PASSWORD	Sys user password of OBDX database (Existing)	export DB_SYS_PASSWORD=obdx182sys
	SCHEMA_PASS	Password for new schema on OBDX database	export SCHEMA_PASS=obdx#182
	STBPassword	Password for RCU STB schema	export STBPassword=obdx182#stb
	DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadmn
	EHMS_DATABASE_SYS_PASS	Sys user password of EHMS HOST database (Existing)	export EHMS_DATABASE_SYS_PASS=obdxehmssys
	EHMS_HOST_SCHEMA_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=obdxehmshost
	EHMS_SCHEMA_PASS	Password for new OBDX EHMS schema on EHMS HOST database	export EHMS_SCHEMA_PASS=obdx182ehms
	DBAuthPassword	Password for new OBDX Administrator user of OBDX application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obdxadmn
Environment	FLAVOUR	Flavour for installation 'OBDX' for Third Party System 1.0 (OBDX with THP)	export FLAVOUR=OBDX

variables to set for flavor: OBDX (Third-party HOST)	Mode	Mode of installation. 'New' in-case of a fresh installation of OBDX for the first run on server 'Clean' in-case of an existing OBDX 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 OBDX database (Existing)	export DB_SYS_PASSWORD=obdx182sys
	SCHEMA_PASS	Password for new schema on OBDX database	export SCHEMA_PASS=obdx#182
	STBPassword	Password for RCU STB schema	export STBPassword=obdx#stb
	DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadm
	DBAuthPassword	Password for new OBDX Administrator user of OBDX application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obdxadm

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.

```
[devops@OBDX_Installer]# python runInstaller.py --silent --base
Password validated for sys
Password validated for sys
Password validated for OBPM141

>>> STARTING OBDX PRODUCT INSTALLATION <<<

Starting OBDX Database Installation with OBPM141 FLAVOR
Tablespace with name OBDX_183INS and OBDX_AUDIT_183INS exists
Dropping User...
Objects dropped
Schema dropped
Role dropped
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 OBDX database

Starting OBPM141 Database Installation...
Table space with name TBS_B1K1_OBPM141_183INS exists
Objects dropped
Schema dropped
Role dropped
Creating User...
User Created
Creating Role...
Roles Created
Executing Grants...
```

When the installation completes, the below message is displayed

```
PUTTY (inactive)
- G X
<Dec 16, 2018 7:19:45 AM UTC> <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 AdminServer obdx_cluster .>
<Dec 16, 2018 7:19:52 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.rest.idm [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/obdx.app.rest.idm.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:13 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, BatchResourceAdapter [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/BatchResourceAdapter.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:14 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, AuditMDBEAR [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/AuditMDBEAR.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:14 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, com.offs.digx.app.connector [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/com.offs.digx.app.connector.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:15 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.mdb.report [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/obdx.app.mdb.report.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:15 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.timer [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/obdx.app.timer.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:15 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.auth [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/obdx.app.auth.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:15 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.app.domain [archive: /scratch/obdx/OBDX_Installer/installables/app/cz/obdx.cz.app.domain.ear], to obdx_cluster AdminServer .>
<Dec 16, 2018 7:20:15 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.extsystem.domain [archive: /scratch/obdx/OBDX_Installer/installables/app/cz/obdx.cz.extsystem.domain.ear], to AdminServer obdx_cluster .>
<Dec 16, 2018 7:20:15 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.thirdparty.app.domain [archive: /scratch/obdx/OBDX_Installer/installables/app/cz/obdx.cz.thirdparty.app.domain.ear], to AdminServer obdx_cluster .>
<Dec 16, 2018 7:20:15 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.soap [archive: /scratch/obdx/OBDX_Installer/installables/app/components/obdx/deploy/obdx.app.soap.ear], to obdx_cluster .>
<Dec 16, 2018 7:23:40 AM UTC> <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@obdxw1 OBDX_Installer]#
```

[Home](#)

6. Installer Verification

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

Log Description	PATH
Summarized Installer Activity Log	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/obdx_installer.log
Summarized Database Logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/DB_installation.log
Detailed OBDX DB Logs per SQL file	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/OBDX/*
Detailed EHMS schema Logs per SQL file (specific to EHMS host system only)	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/<EHMSHOST>/* <EHMSHOST> - values such as; FCORE; OBPM; OBPM143; UBS; UBS143
RCU Logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/app/obdx_stb_rcu_1600.log
Weblogic Configuration Logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/app/obdx_wls_post.log
Detailed OBDX policy seeding logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/Entitlement.log <OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/Task.log <OBDX 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	<OBDX 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.

[Home](#)

7. Installer Scope

OBDX Installer currently covers below activities:

Flavor: Third Party system (OBDX with THP)

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

Flavor: Oracle FLEXCUBE Universal Banking (OBDX with UBS)

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
OBDX with UBS (14.3.0.0.0 and 14.2..0.0.0 both version)	OBDX DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Execute UBS 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	√	√

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

Flavor: Oracle FLEXCUBE Core Banking (OBDX with FCORE)

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
OBDX with FCORE	OBDX 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	√	√

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
Weblogic Setup and Configuration	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	√	√
	OBDX Configuration	Copy config files into OBDX Installation Home	√	√ (Delete old and copy new from installer zip)

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

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
OBDX with OBPM (14.3.0.0.0 and 14.2..0.0.0 both version)	OBDX DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
EHMS DB Setup		Execute OBPM HOST specific scripts	√	√
		Compile Schema	√	√
		Policy Seeding	√	√
		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	√	√
		Application Deployment	√	√
		JTA	√	√
		Enable Production Mode	√	√
		Start AdminServer and NodeManager	√	√
	OBDX Configuration	Copy config files into OBDX Installation Home	√	√ (Delete old and copy new from installer zip)

8. Post Installation Steps

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

Login Weblogic Admin console.

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The left sidebar has a 'Domain Structure' tree with 'Deployments' selected. The right pane has sections for 'General Information' (with links to administration tasks, documentation, and support), 'Helpful Tools' (with links to applications, GridLink, clusters, preferences, and Oracle Enterprise Manager), and other administrative links for 'Domain', 'Domain Partitions', 'Environment', 'Services', 'Resource Group Templates', 'Resource Groups', 'Deployed Resources', and 'Services'.

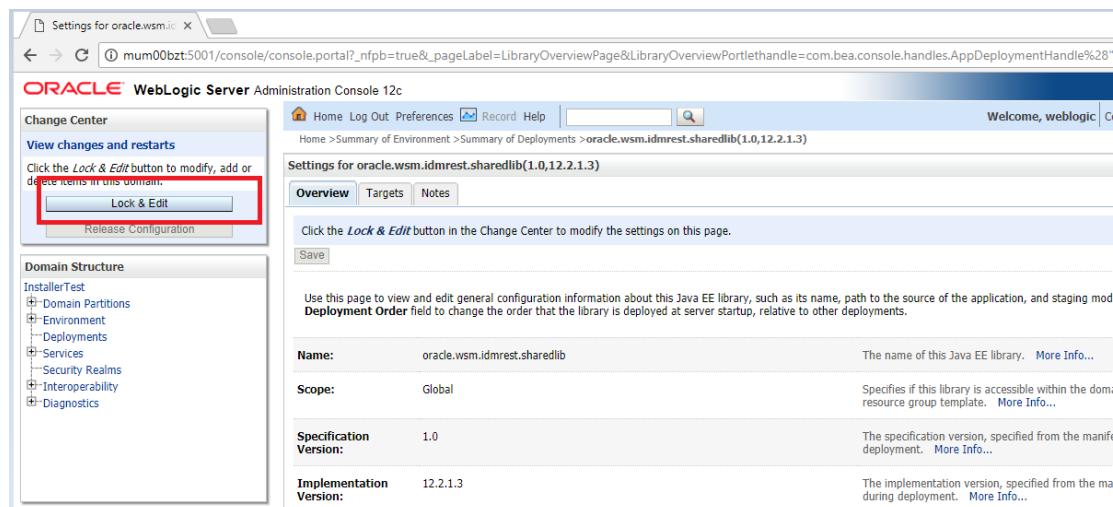
In the left panel of the Console, Click on **Deployments**, A table in the right pane displays all deployed Enterprise Applications and Application Modules.

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The left sidebar has a 'Domain Structure' tree with 'Deployments' selected and highlighted with a red box. The right pane has sections for 'General Information' (with links to administration tasks, documentation, and support), 'Helpful Tools' (with links to applications, GridLink, clusters, preferences, and Oracle Enterprise Manager), and other administrative links for 'Domain', 'Domain Partitions', 'Environment', 'Services', 'Resource Group Templates', 'Resource Groups', 'Deployed Resources', and 'Services'.

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

oracle.bi.jbips(11.1.1.0.1)	Active	Library	AdminServer	Global		100
oracle.dconfig-infra(2.0,12.2.1)	Active	Library	AdminServer	Global		100
oracle.jrf.system.filter	Active	Library	AdminServer	Global		100
oracle.jsp.next(12.2.1,12.2.1)	Active	Library	AdminServer	Global		100
oracle.pwdgen(2.0,12.2.1)	Active	Library	AdminServer	Global		100
oracle.sdp.client(2.0,12.2.1.3.0)	Active	Library	AdminServer	Global		100
oracle.sdp.messaging(2.0,12.2.1.3.0)	Active	Library	AdminServer	Global		100
oracle.webcenter.composer(2.0,12.2.1)	Active	Library	AdminServer	Global		300
oracle.webcenter.skin(2.0,12.2.1)	Active	Library	AdminServer	Global		300
oracle.wsm.console.core.view(1.0,12.2.1.3)	Active	Library	AdminServer	Global		311
oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)	Active	Library	AdminServer	Global		100
oracle.wsm.seedpolicies(2.0,12.2.1.3)	Active	Library	AdminServer	Global		100
ora18n-adf(11.1.1.1.0)	Active	Library	AdminServer	Global		100
owasp.esapi(2.0,12.2.1)	Active	Library	AdminServer	Global		100
state-management-provider-memory-rar	Active	✓ OK	Resource Adapter	AdminServer	Global	100
UIX(11.12.2.1.3.0)	Active	Library	AdminServer	Global		100
wsm-pm	New	Enterprise Application	obdx_cluster	Global		5

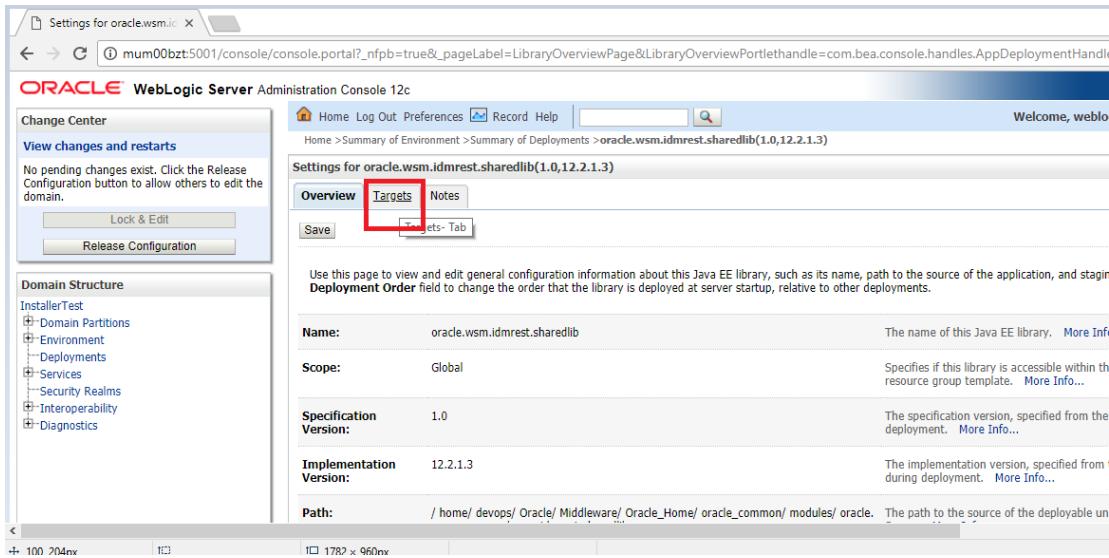
Click on **Lock & Edit**



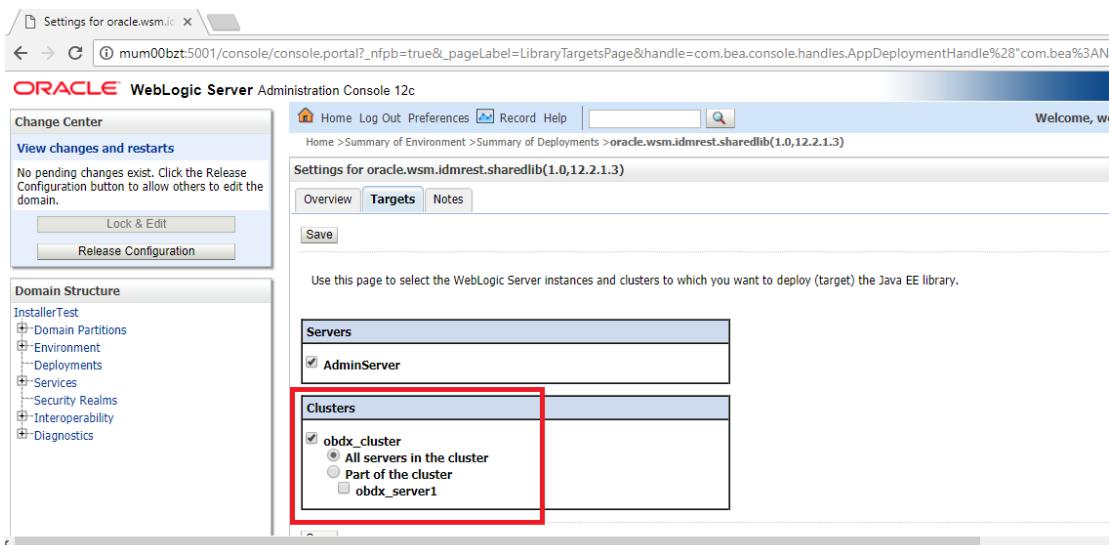
The screenshot shows the Oracle WebLogic Server Administration Console. The URL in the browser is `mum00bzt:5001/console/console.portal?_nfpb=true&_pageLabel=LibraryOverviewPage&LibraryOverviewPortlethandle=com.bea.console.handles.AppDeploymentHandle%28`. The page title is "Settings for oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)". The left sidebar shows the "Change Center" with a "Lock & Edit" button highlighted by a red box. The main content area shows the "Overview" tab for the library, with a note: "Click the Lock & Edit button in the Change Center to modify the settings on this page." Below this is a "Save" button. The "Domain Structure" sidebar on the left includes "InstallerTest", "Domain Partitions", "Environment", "Deployments", "Services", "Security Realms", "Interoperability", and "Diagnostics". The "Deployment Order" section of the main content area is described as "Use this page to view and edit general configuration information about this Java EE library, such as its name, path to the source of the application, and staging mode". The library details are as follows:

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 deployment. More Info...

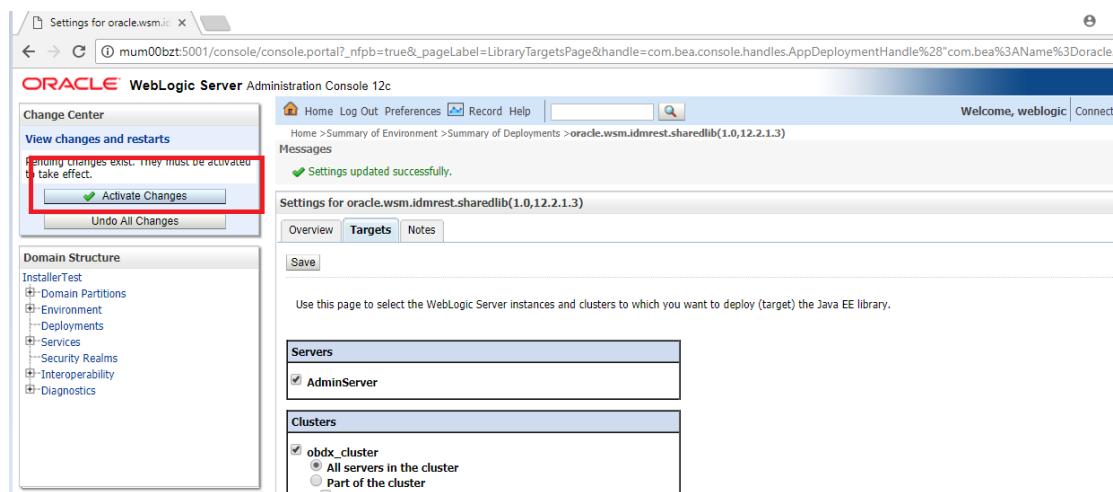
Click on Targets Tab



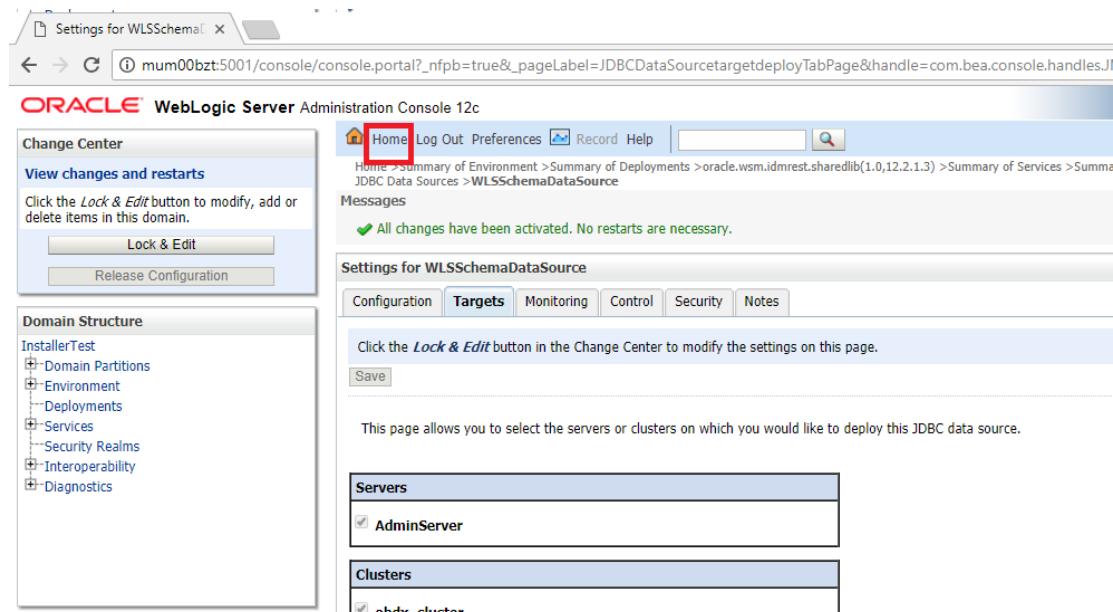
In the Servers box, select **Cluster** if it is not already selected and click **Save**.



Click on **Activate Changes**.



Click on **Home Tab**



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

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the **Lock & Edit** button to modify, add or delete items in this domain.

Domain Structure

- InstallerTest
- Domain Partitions
- Environment
- Deployments
- Services**
- Security Realms
- Interoperability
- Diagnostics

Settings for oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)

Targets

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

Servers

AdminServer

Clusters

obdx_cluster

All servers in the cluster

Click on **Data Sources**

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the **Lock & Edit** button to modify, add or delete items in this domain.

Domain Structure

- InstallerTest
- Domain Partitions
- Environment
- Deployments
- Services**
- Security Realms
- Interoperability
- Diagnostics

Summary of Services

Use these sections of the Administration Console to configure WebLogic Server services.

Section	Description
Messaging	WebLogic JMS is an enterprise-class messaging system that fully supports the JMS specification, and which also provides numerous extensions that go beyond standard JMS APIs. It is tightly integrated into the WebLogic Server platform, allowing you to build highly secure Java EE applications that can be easily administered through the WebLogic Server console. In addition to fully supporting XA transactions, WebLogic JMS also features high availability through service migration features while also providing seamless interoperability with other versions of WebLogic Server and third-party messaging vendors.
Data Sources	Data sources enable you to configure database connectivity in your WebLogic domain. Data sources provide database connection pooling and connection failover features while also providing seamless interoperability with other versions of WebLogic Server and third-party messaging vendors.
Persistent Stores	A persistent store is a physical repository for storing subsystem data, such as persistent JMS messages. It can be either a JDBC-accessible database or a JMS message store.
Foreign JNDI Providers	A foreign JNDI provider represents a JNDI tree that resides outside of a WebLogic Server environment. This could be a JNDI tree in a different server or an external Java program. By setting up a foreign JNDI provider you can lookup and use a remote object with the same ease as using an object bound to a local server instance.
Work Contexts	Work Contexts allow developers to define properties which implicitly flow across remote requests and allow downstream components to work in the context of the client.
XML Registries	The XML Registry is a facility for configuring and administering the XML resources of an instance of WebLogic Server. XML resources in WebLogic Server are used by an application to parse XML data, the transformer used by an application to transform XML data, external entity resolution, and caching of external entity definitions.
XML Entity	XML Entity Caches store external entities that are referenced with a URL or a pathname relative to the main directory of the EAR archive. Caching external entities can improve the performance of an application by reducing the number of network requests required to retrieve the same entity multiple times.

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

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there's a navigation tree with 'Deployments', 'Services', 'Security Realms', 'Interoperability', and 'Diagnostics'. Below that is a 'How do I...' section with links for creating JDBC generic data sources, JDBC GridLink data sources, JDBC multi data sources, UCP data sources, and Proxy data sources. To the right is a 'System Status' box showing the health of running servers. The main area is titled 'Data Sources (Filtered - More Columns Exist)' with a note to click 'Lock & Edit' to activate buttons. It shows a table with columns 'Name', 'Type', 'JNDI Name', and 'Targets'. The 'Targets' column lists 'obdx_cluster', 'obdx_cluster', 'AdminServer', 'AdminServer, obdx_cluster', 'obdx_cluster', 'AdminServer, obdx_cluster', 'AdminServer, obdx_cluster', and 'AdminServer, obdx_cluster'. The row for 'WLSSchemaDataSource' is selected and highlighted with a red box.

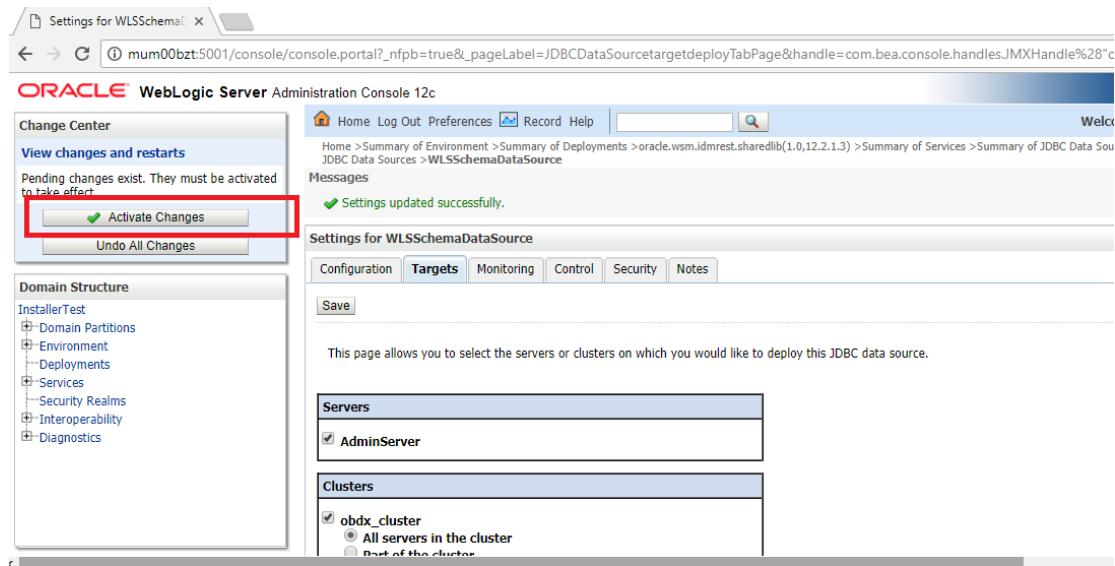
Click on **Targets** Tab

The screenshot shows the 'Change Center' section of the Oracle WebLogic Server Administration Console. It includes a 'View changes and restarts' section with 'Lock & Edit' and 'Release Configuration' buttons. Below is a 'Domain Structure' tree with 'InstallerTest', 'Domain Partitions', 'Environment', 'Deployments', 'Services', 'Security Realms', 'Interoperability', and 'Diagnostics'. The main content area is titled 'Settings for WLSSchemaDataSource' and shows the 'Targets' tab selected (highlighted with a red box). Other tabs include 'Configuration', 'Monitoring', 'Control', 'Security', and 'Notes'. Below the tabs, a sub-tab 'General' is selected. A note says 'Click the Lock & Edit button in the Change Center to modify the settings on this page.' The 'Targets' tab displays a table with columns 'Name', 'Datasource Type', and 'Scope'. The 'Name' column shows 'WLSSchemaDataSource'. The 'Datasource Type' column shows 'GENERIC'. The 'Scope' column shows 'Global'.

Click on **Lock & Edit**

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

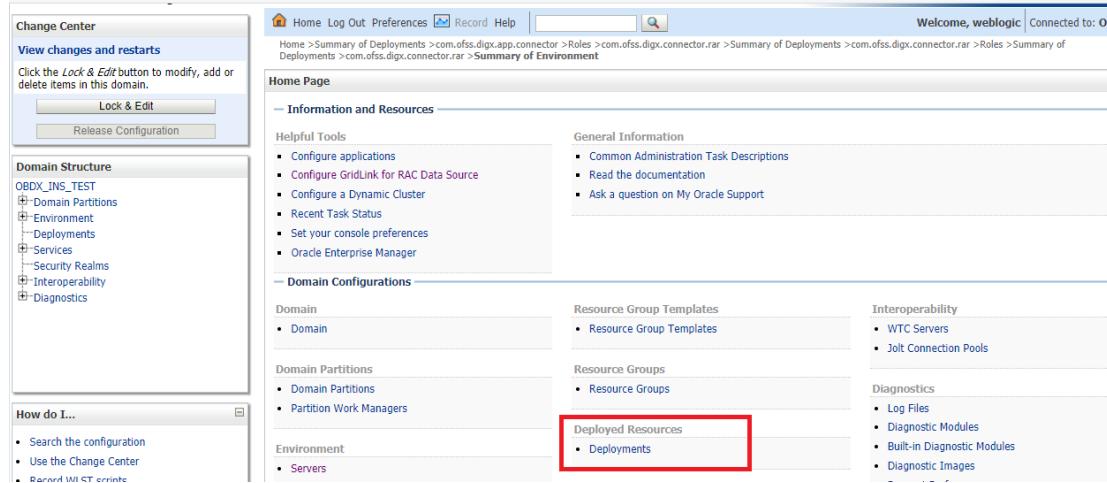
Click on **Activate Changes**



The screenshot shows the 'Change Center' section of the WebLogic Admin Console. A red box highlights the 'Activate Changes' button, which is located in the 'View changes and restarts' panel. The URL in the browser is mum00bzt:5001/console/console.portal?_nfpb=true&_pageLabel=JDBCDataSourceTargetDeployTabPage&handle=com.bea.console.handles.JMXHandle%28%29.

Outbound credential mappings

Login Weblogic Admin Console. Click on Deployments.



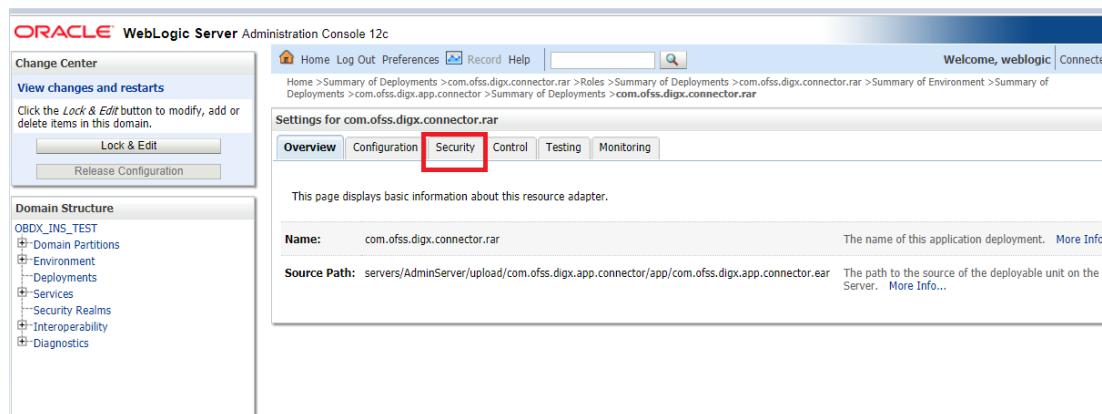
The screenshot shows the 'Home Page' of the WebLogic Admin Console. A red box highlights the 'Deployments' link under the 'Information and Resources' section. The URL in the browser is mum00bzt:5001/console/DeploymentSummary?_nfpb=true&_pageLabel=DeploymentSummary&handle=com.bea.console.handles.JMXHandle%28%29.

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



Module	Status	Type	Server	Deployment	Version
com.ofss.digx.connector.rar	Active	Resource Adapter	AdminServer, InstallerTest	Global	100
coherence-transaction-rar	Active	Resource Adapter	AdminServer, InstallerTest	Global	100
DMS Application (12.2.1.1.0)	Active	Web Application	AdminServer, InstallerTest	Global	5
em	Active	Enterprise Application	AdminServer	Global	400
emagentsdkimplpriv.jar(12.4,12.1.0.4.0)	Active	Library	AdminServer	Global	100

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



ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the **Lock & Edit** button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

OBDX_INS_TEST

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

Home Log Out Preferences Record Help

Welcome, weblogic Connected

Home > Summary of Deployments >com.ofss.digx.connector.rar >Roles >Summary of Deployments >com.ofss.digx.connector.rar >Summary of Environment >Summary of Deployments >com.ofss.digx.app.connector >Summary of Deployments >com.ofss.digx.connector.rar

Settings for com.ofss.digx.connector.rar

Overview Configuration **Security** Control Testing Monitoring

This page displays basic information about this resource adapter.

Name: com.ofss.digx.connector.rar The name of this application deployment. [More Info...](#)

Source Path: servers/AdminServer/upload/com.ofss.digx.app.connector/app/com.ofss.digx.app.connector.ear The path to the source of the deployable unit on the Admin Server. [More Info...](#)

Click on New

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the **Lock & Edit** button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

OBDX_INS_TEST

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

Settings for com.ofss.digx.connector.rar

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OBDX_INS

Home > Summary of Deployments > com.ofss.digx.connector.rar > Roles > Summary of Deployments > com.ofss.digx.connector.rar > Summary of Environment > Summary of Deployments > com.ofss.digx.app.connector > Summary of Deployments > com.ofss.digx.connector.rar

Outbound Credential Mappings

Overview Configuration Security Control Testing Monitoring

Roles Policies Outbound Credential Mappings Inbound Principal Mappings Principals

Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enterprise Information System (EIS) to which you want to connect using a resource adapter. You can use default outbound credential mappings for all outbound connection pools in the resource adapter, or specify particular outbound credential mappings for individual connectors. This page contains the table of outbound credential mappings for this resource adapter.

Customize this table

Outbound Credential Mappings

New Delete

Showing 0 to 0 of 0 Previous | N

WLS User	EIS User	Outbound Connection Pool

There are no items to display

New Delete

Showing 0 to 0 of 0 Previous | N

Select ra/DIGXConnectorAES > Next

View changes and restarts

Click the **Lock & Edit** button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

OBDX_INS_TEST

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I... Create outbound credential mappings

System Status Health of Running Servers as of 10:57 AM

Create a New Security Credential Mapping

Back | Next | Finish | Cancel

Outbound Connection Pool

Which Outbound Connection Pool would you like the credential map to be associated with? Selecting Resource Adapter Default will configure the credential mapping for all Outbound Connection Pools in this resource adapter. Each Outbound Connection Pool can then configure themselves to override these credentials.

Customize this table

Create a New Security Credential Map Entry for:

Showing 1 to 10 of 11 Previous

Outbound Connection Pool
<input checked="" type="checkbox"/> ra/DIGXConnectorAES
<input type="checkbox"/> ra/DIGXConnectorAPNS
<input type="checkbox"/> ra/DIGXConnectorBIREPORTS
<input type="checkbox"/> ra/DIGXConnectorFCM
<input type="checkbox"/> ra/DIGXConnectorFILEUPLOAD
<input type="checkbox"/> ra/DIGXConnectorGENERICREST
<input type="checkbox"/> ra/DIGXConnectorIPM_OBDX_BU
<input type="checkbox"/> ra/DIGXConnectorIPM_OBDX_BU1
<input type="checkbox"/> ra/DIGXConnectorWTOKEN
<input type="checkbox"/> ra/DIGXConnectorMERCHANT

Select "Default User" > Next

View changes and restarts

Click the **Lock & Edit** button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

OBDX_INS_TEST

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I... Create outbound credential mappings

System Status

Health of Running Servers as of 10:59 AM

Home > Summary of Deployments > com.ofss.digx.connector.rar > Roles > Summary of Deployments > com.ofss.digx.connector.rar > Summary of Environment > Summary of Deployments > com.ofss.digx.app.connector > Summary of Deployments > com.ofss.digx.connector.rar

Create a New Security Credential Mapping

Back | Next | Finish | Cancel

WebLogic Server User

Select the WebLogic Server user that you would like to map an EIS user to. Selecting 'User for creating initial connections' will configure the user that will be used for creating connections when the resource adapter is first started. Selecting 'Default User' will configure the user that will be used as the default for any authenticated WebLogic Server. It does not have a credential mapping specifically for them. Selecting 'User for unauthenticated user' will configure the user that will be used for an unauthenticated WebLogic Server. If you select 'Configured User' you must type in the WebLogic Server user that you are configuring. This user must be a configured WebLogic Server user.

User for creating initial connections

Default User

Unauthenticated WLS User

Configured User Name

WebLogic Server User Name:

Back | Next | Finish | Cancel

Enter "EIS User Name" should be set to AES_KEY

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

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the **Lock & Edit** button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

OBDX_INS_TEST

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I... Create outbound credential mappings

Home > Summary of Deployments > com.ofss.digx.connector.rar > Roles

Create a New Security Credential Mapping

Back | Next | Finish | Cancel

EIS User Name and Password

Configure the EIS User Name and Password that you would like to map the WebLogic Server User to:

* Indicates required fields

Enter the EIS User Name:

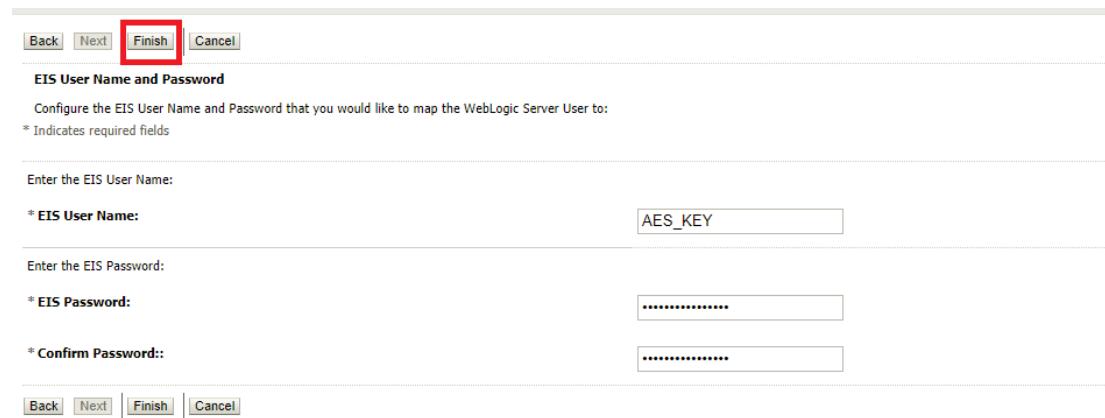
* EIS User Name:

Enter the EIS Password:

* EIS Password:

* Confirm Password:

Back | Next | Finish | Cancel

Click 'Finish'

Back | Next | **Finish** | Cancel

EIS User Name and Password

Configure the EIS User Name and Password that you would like to map the WebLogic Server User to:

* Indicates required fields

Enter the EIS User Name:

* **EIS User Name:** AES_KEY

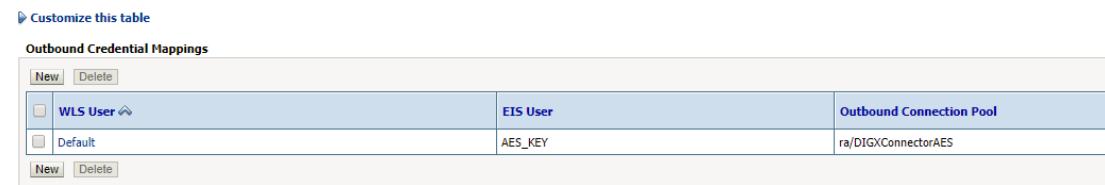
Enter the EIS Password:

* **EIS Password:**

* **Confirm Password:**

Back | Next | **Finish** | Cancel

Check AES_KEY mapping is created successfully.



Customize this table

Outbound Credential Mappings

New | Delete

	WLS User	EIS User	Outbound Connection Pool
<input type="checkbox"/>	Default	AES_KEY	ra/DIGXConnectorAES

New | Delete

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 OBDX domain (created via installer), just replace the "/console" with "/em".



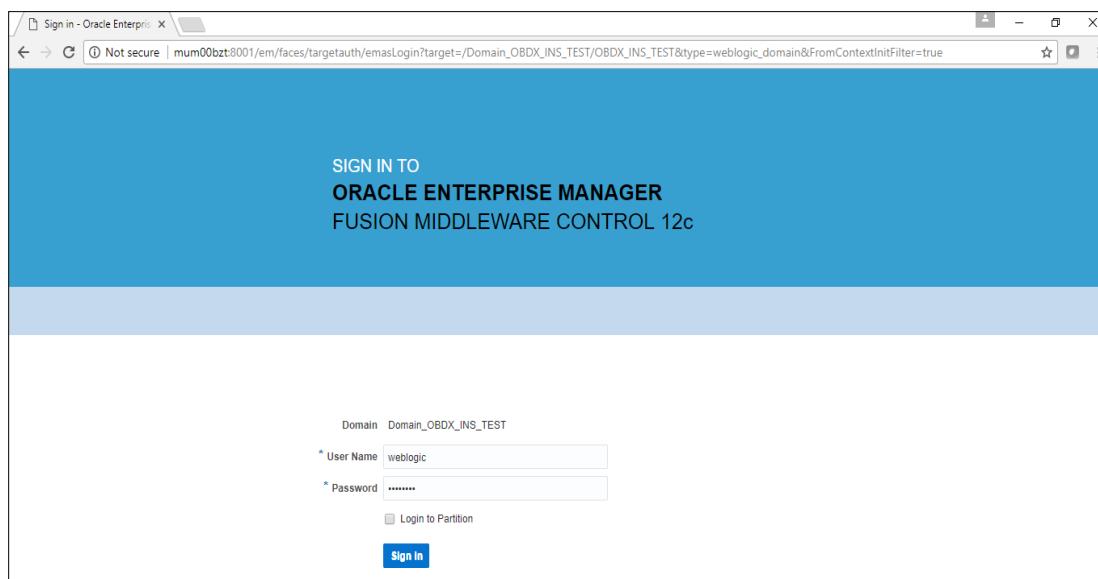
Domain Domain_OBDX182_UBS140

* User Name

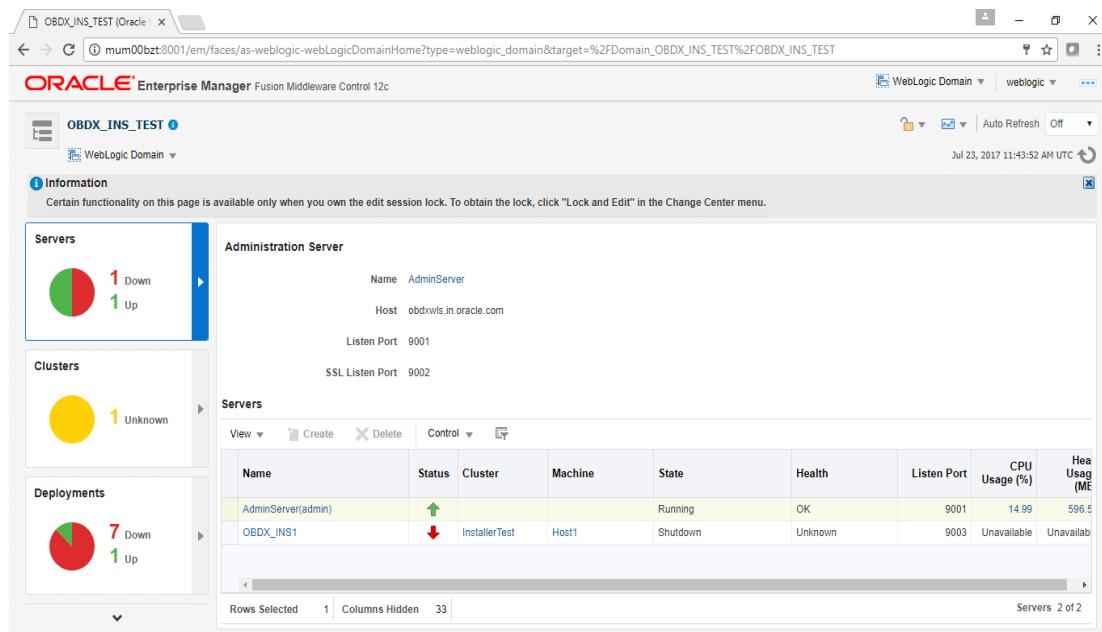
* Password

Login to Partition

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



- Click on Sign In



The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The title bar reads "OBDX_INS_TEST (Oracle)" and the URL is "http://mum00bzt:8001/em/faces/as-weblogic-webLogicDomainHome?type=weblogic_domain&target=%2FDomain_OBDX_INS_TEST%2FOBDX_INS_TEST". The main content area is titled "Administration Server" and shows the following details:

- Name: AdminServer
- Host: obdxwls.in.oracle.com
- Listen Port: 9001
- SSL Listen Port: 9002

Below this, the "Servers" section is displayed in a table:

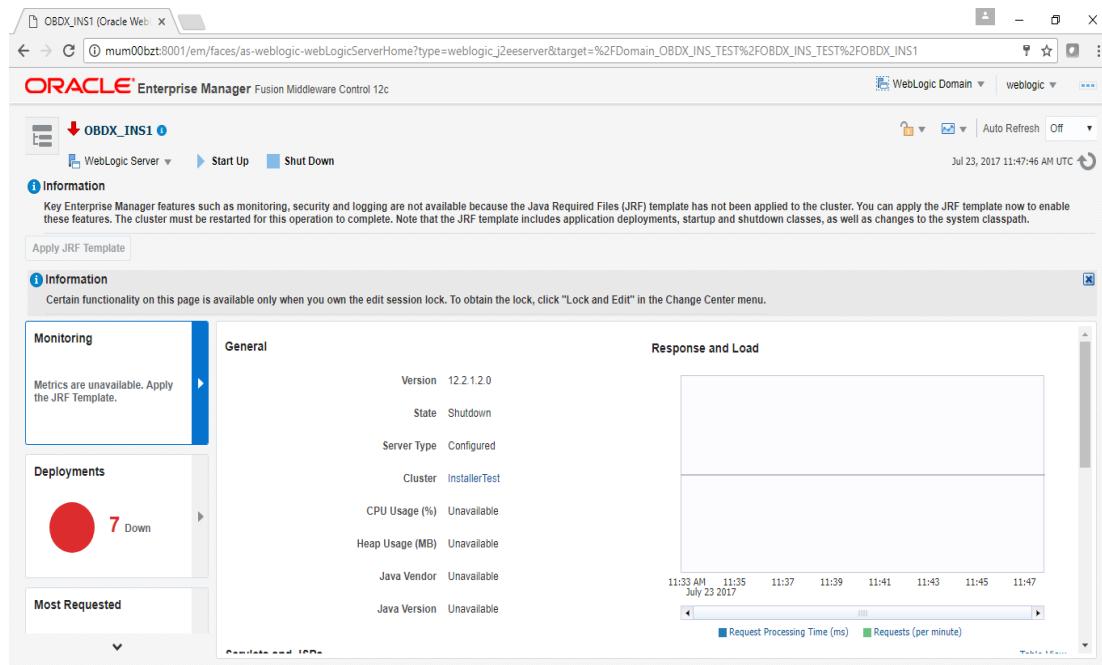
Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)	Mem Usage (MB)
AdminServer(admin)	Running			OK		9001	14.99	596.5
OBDX_INS1	Shutdown	InstallerTest	Host1	Unknown		9003	Unavailable	Unavailable

On the left sidebar, there are three sections: "Servers" (1 Down, 1 Up), "Clusters" (1 Unknown), and "Deployments" (7 Down, 1 Up).

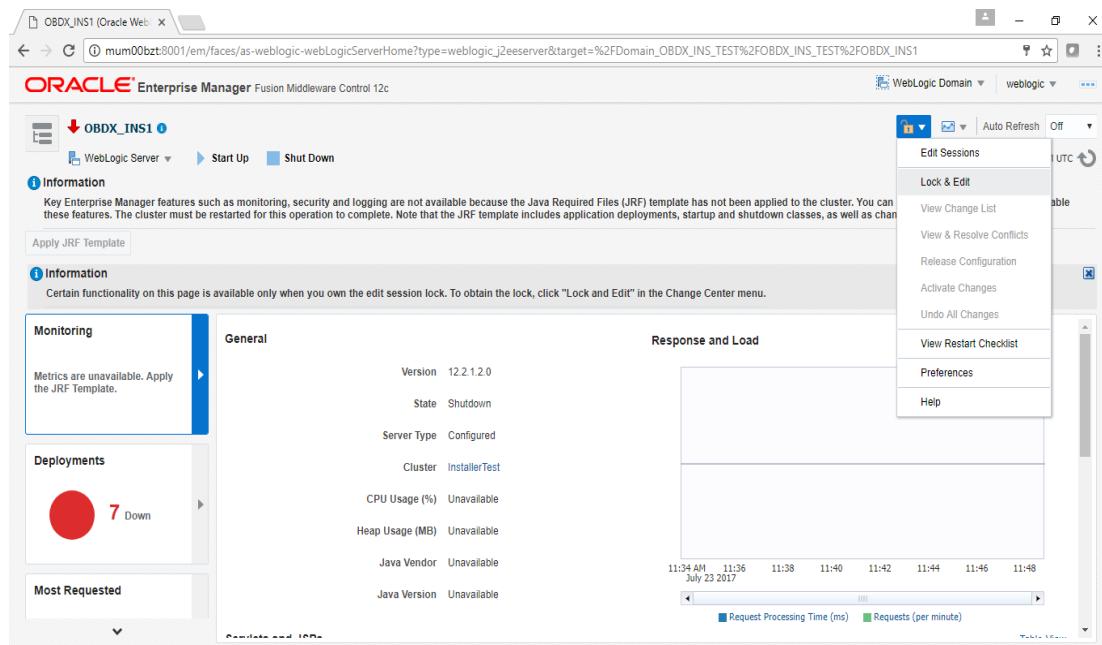
- Click on the Managed Server (as highlighted below)

Servers						
View Create Delete Control Edit						
Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Running			OK		9001
OBDX_INS1	Shutdown	InstallerTest	Host1	Unknown		9003

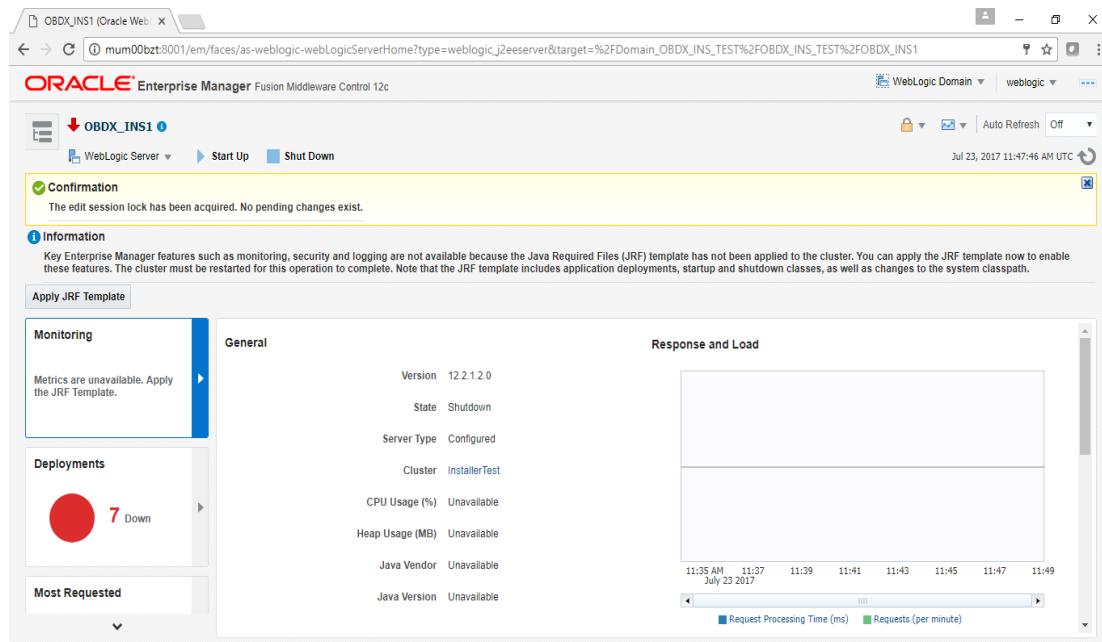
Note : Depending on installer.properties, Managed server will differ from above screenshot.



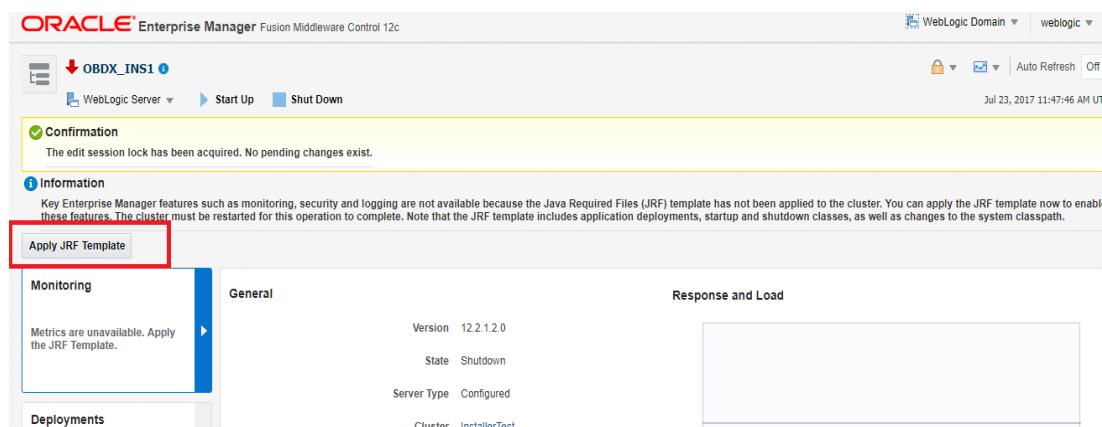
- Click on “Lock and Edit” option (as shown in screenshot).



You will see below screen stating the edit session confirmation



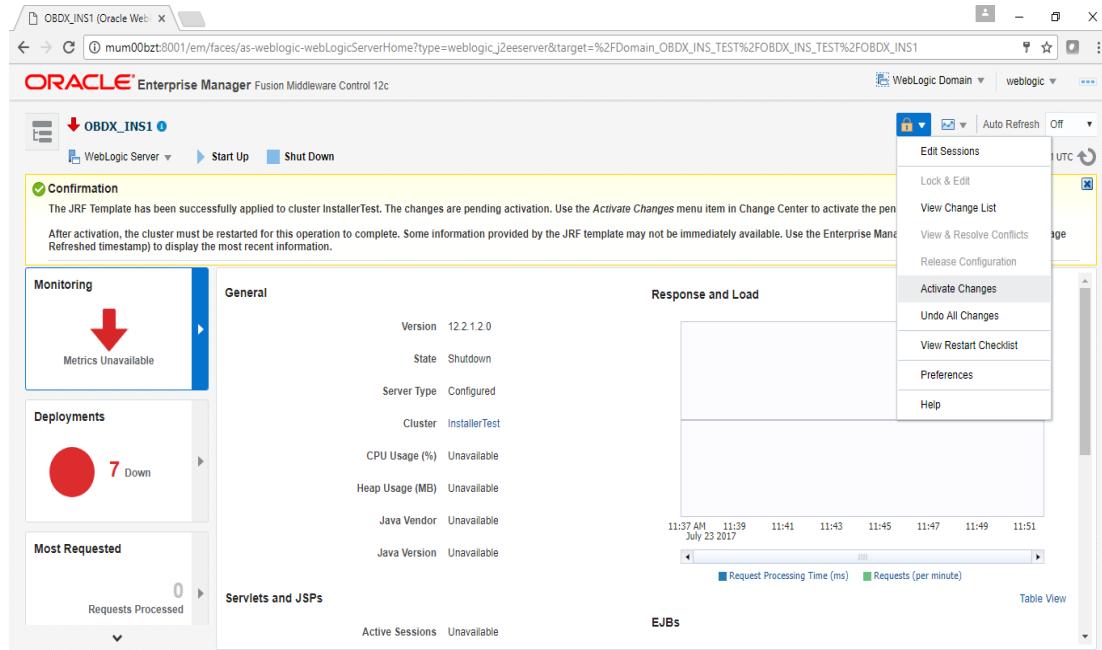
- Click on “Apply JRF Template” option (as shown in screenshot).



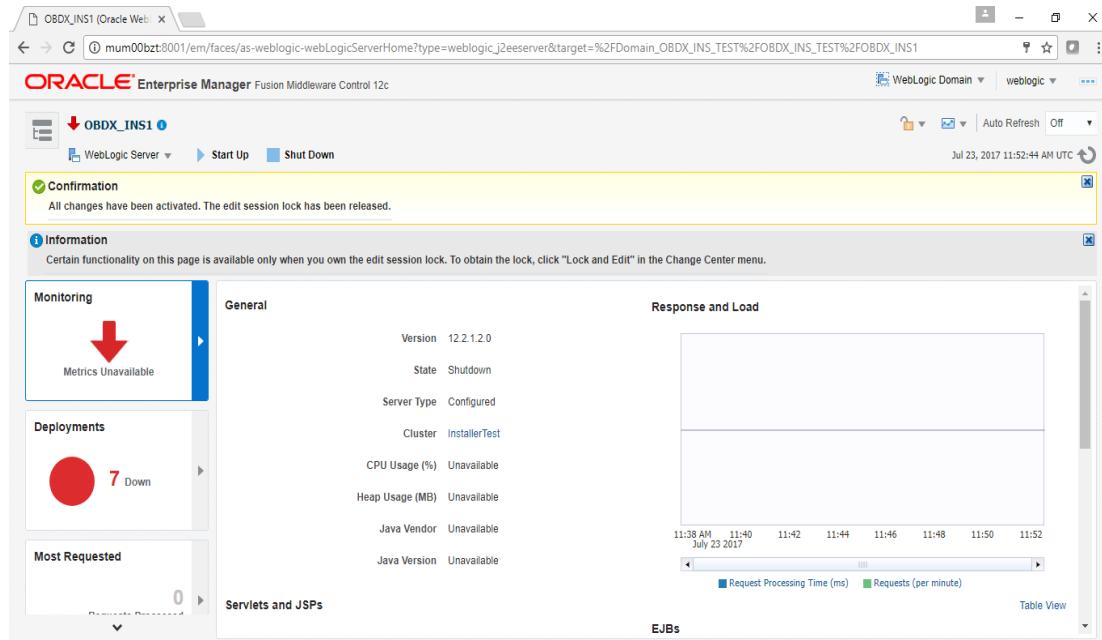
Is JRF successfully applied, you will get below Confirmation.



- 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 OBDX 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 OBDX.

Check for below values & change accordingly.

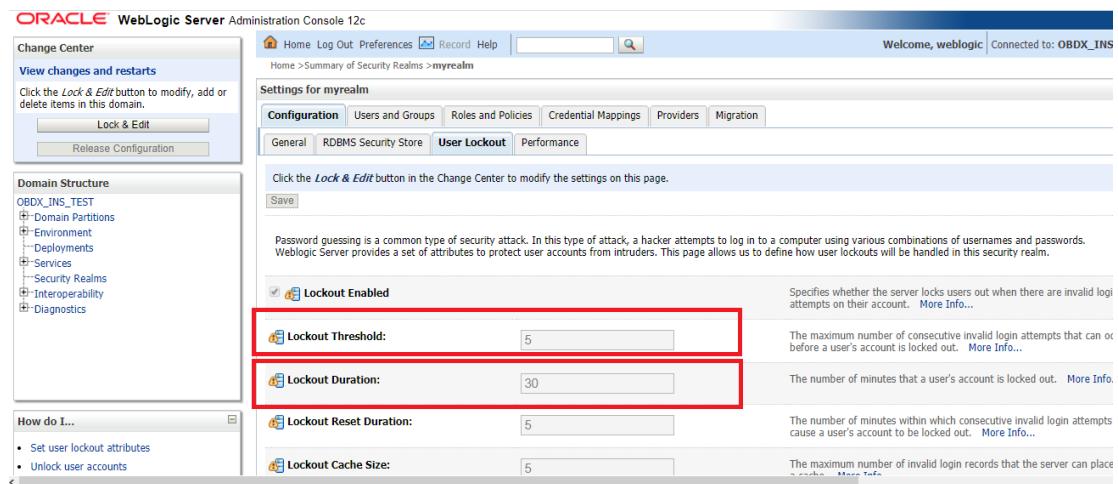
1]Lockout Threshold : It should be equal to Invalid attempts of Password Policy Maintenance.

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.



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



Save and Activate Changes

Restart AdminServer

OBDX Application logging

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

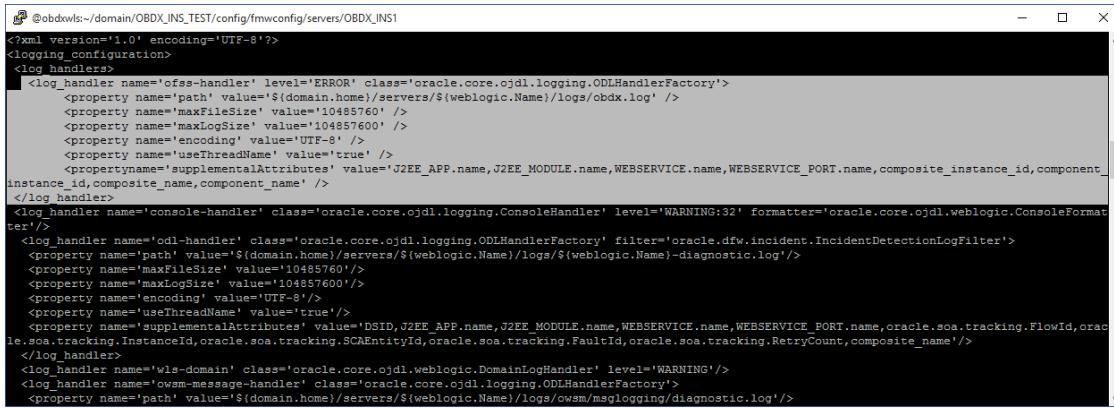
```
[devops@      .] $ cd /home/devops/domain/OBDX182_UBS140/config/fmwconfig/servers/OBDX_UBS141/
[devops@      OBDX_UBS141]$ ls -ltr
total 36
drwxr-x--- 2 devops devops 4096 Jul  4 06:33 diagnostics-registration
drwxr-x--- 2 devops devops 4096 Jul  4 06:33 mbeans
-rw-r---- 1 devops devops 2286 Jul  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='obdx-handler' level='<LOGLEVEL>'  
class='oracle.core.ojdl.logging.ODLHandlerFactory'>  
    <property name='path' value='<path for OBDX log>/<OBDX 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='obdx-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,compos  
ite_instance_id,component_instance_id,composite_name,component_name' />  
</log_handler>
```



```

@obdxwls:~/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' 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/${weblogic.Name}-diagnostic.log' />
        <property name='maxFileSize' value='10485760' />
        <property name='maxLogSize' value='104857600' />
        <property name='encoding' value='UTF-8' />
        <property name='useThreadName' value='true' />
        <property name='supplementalAttributes' value='DSID,J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_PORT.name,oracle.soa.tracking.FlowId,oracle.soa.tracking.InstanceId,oracle.soa.tracking.SCAEntityId,oracle.soa.tracking.FaultId,oracle.soa.tracking.RetryCount,composite_name' />
    </log_handler>
    <log_handler name='wls-domain' class='oracle.core.ojdl.weblogic.DomainLogHandler' level='WARNING'>
    <log_handler name='cwsrm-message-handler' class='oracle.core.ojdl.logging.ODLHandlerFactory'>
        <property name='path' value='${domain.home}/servers/${weblogic.Name}/logs/cwsm/meglogging/diagnostic.log' />
    </log_handler>
</log>
</logging_configuration>

```

Add loggers under <loggers> tag using below template:

```

<logger name='com.ofss' level='ERROR' useParentHandlers='false'>
    <handler name='obdx-handler' />
</logger>
<logger name='#BANKCODE#.com.ofss' level='ERROR' useParentHandlers='false'>
    <handler name='obdx-handler' />
</logger>

```

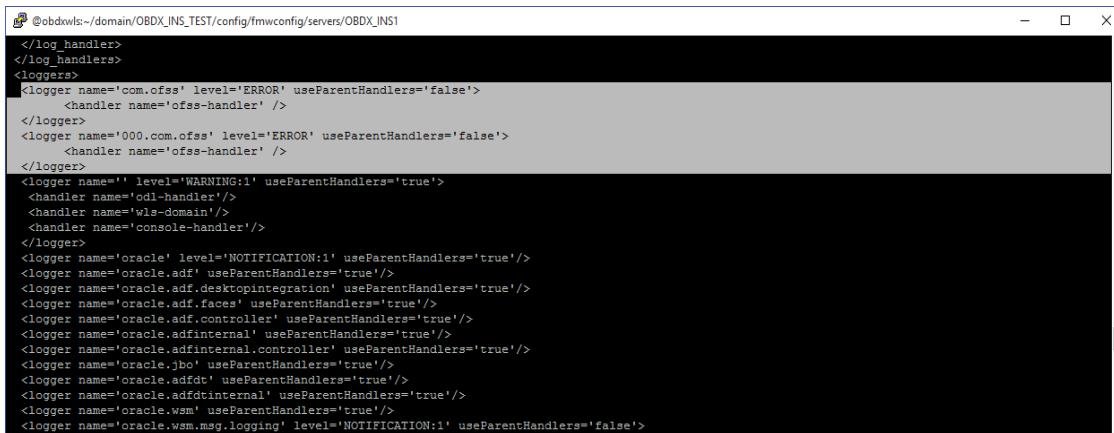
Note: Replace the #BANKCODE# with bank code.

Below is a sample implementation for loggers file

```

<logger name='com.ofss' level='ERROR' useParentHandlers='false'>
    <handler name='obdx-handler' />
</logger>
<logger name='000.com.ofss' level='ERROR' useParentHandlers='false'>
    <handler name='obdx-handler' />
</logger>

```



```

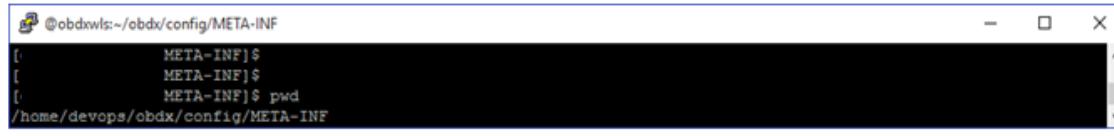
@obdxwls:~/domain/OBDX_INS_TEST/config/fmwconfig/servers/OBDX_INS1
<log_handler>
</log_handler>
<logger>
<logger name='com.ofss' level='ERROR' useParentHandlers='false'>
<handler name='ofss-handler' />
</logger>
<logger name='000.com.ofss' level='ERROR' useParentHandlers='false'>
<handler name='ofss-handler' />
</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.controller' useParentHandlers='true' />
<logger name='oracle.adfinternal.controller' useParentHandlers='true' />
<logger name='oracle.jbo' useParentHandlers='true' />
<logger name='oracle.adfdn' useParentHandlers='true' />
<logger name='oracle.adfdtinternal' useParentHandlers='true' />
<logger name='oracle.wsm' useParentHandlers='true' />
<logger name='oracle.wsm.msg.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 :

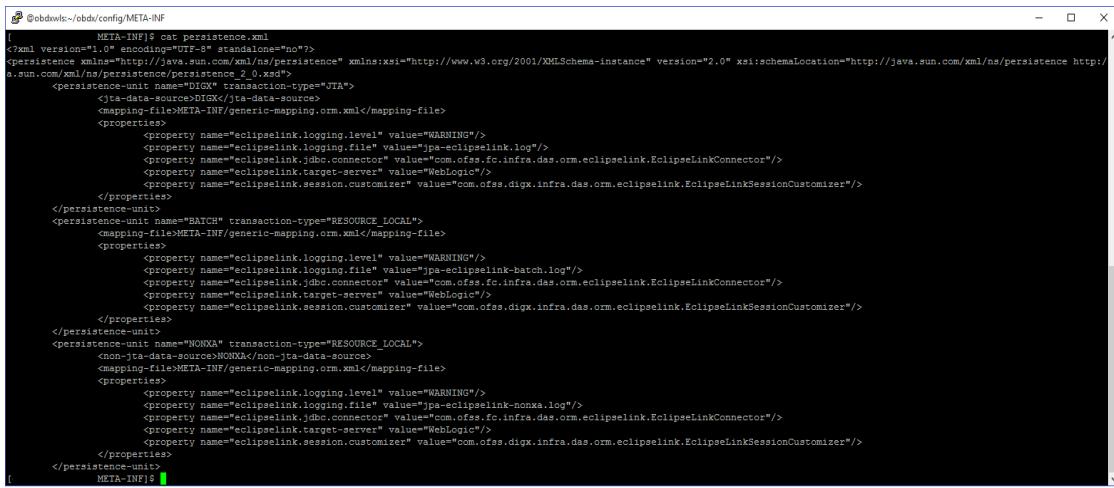
<https://wiki.eclipse.org/EclipseLink/Examples/JPA/Logging>



```

@obdxwls:~/obdx/config/META-INF
[ META-INF]$ 
[ META-INF]$ 
[ 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_2_0.xsd">
<persistence-unit name="DIGX" transaction-type="JTA">
<jta-data-source>DIGX</jta-data-source>
<mapping-file>META-INF/generic-mapping.orm.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.orm.eclipselink.EclipseLinkConnector"/>
<property name="eclipselink.target-server" value="WebLogic"/>
<property name="eclipselink.session.customizer" value="com.ofss.digx.infra.das.orm.eclipselink.EclipseLinkSessionCustomizer"/>
</properties>
</persistence-unit>
<persistence-unit name="BATCH" transaction-type="RESOURCE_LOCAL">
<jta-data-source>BATCH</jta-data-source>
<mapping-file>META-INF/generic-mapping.orm.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.orm.eclipselink.EclipseLinkConnector"/>
<property name="eclipselink.target-server" value="WebLogic"/>
<property name="eclipselink.session.customizer" value="com.ofss.digx.infra.das.orm.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.orm.xml</mapping-file>
<properties>
<property name="eclipselink.logging.level" value="WARNING"/>
<property name="eclipselink.logging.file" value="jpa-eclipselink-nonxa.log"/>
<property name="eclipselink.jdbc.connector" value="com.ofss.fc.infra.das.orm.eclipselink.EclipseLinkConnector"/>
<property name="eclipselink.target-server" value="WebLogic"/>
<property name="eclipselink.session.customizer" value="com.ofss.digx.infra.das.orm.eclipselink.EclipseLinkSessionCustomizer"/>
</properties>
</persistence-unit>

```

Change logging level during runtime

To change OBDX application logging level at runtime (when OBDX 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 OBDX domain (created via installer), just replace the "/console" with "/em".



Domain Domain_OBDX182_UBS140

* User Name

* Password

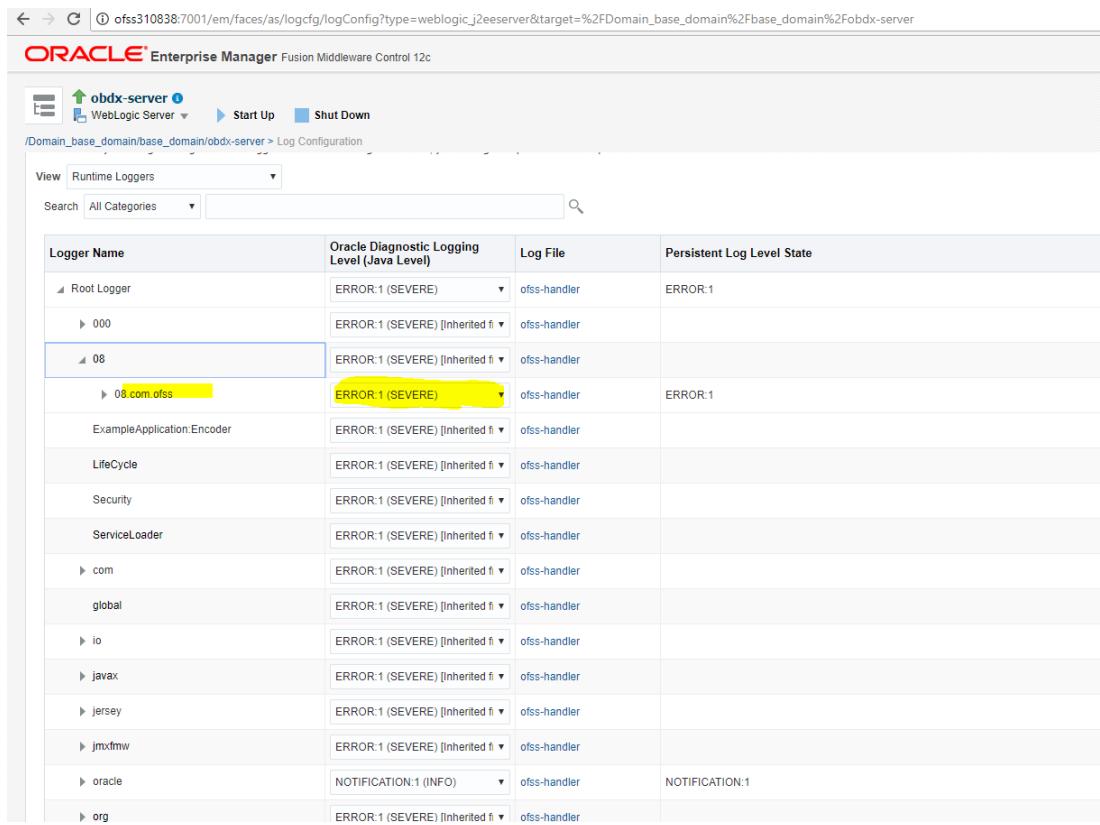
Login to Partition

- Click on obdx-server

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.



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 from Root]	ofss-handler	
08	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
08.com.ofss	ERROR:1 (SEVERE)	ofss-handler	ERROR:1
ExampleApplication:Encoder	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
LifeCycle	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
Security	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
ServiceLoader	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
com	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
global	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
io	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
javax	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
jersey	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
jmxfmw	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	
oracle	NOTIFICATION:1 (INFO)	ofss-handler	NOTIFICATION:1
org	ERROR:1 (SEVERE) [Inherited from Root]	ofss-handler	

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

Oracle FLEXCUBE Universal Banking (OBDX with UBS)

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

Foreign Server

- Login into Weblogic Admin console (OBDX 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, distribution, configure and manage JMS system modules as global system resources.

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	Name	Type
AuditJMS		AuditJMS	JMSSystemResource
FileUploadJMS		FileUploadJMS	JMSSystemResource
ReportJMSModule		ReportJMSModule	JMSSystemResource
UBSSystemModule		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			
Name	Type	JNDI Name	Subdeployment	Targets	
UBSSubdeployment	Foreign Server	N/A	UBSSubdeployment	obdx_cluster	

[New](#) [Delete](#)

- 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 servers can be used.

 Name:	UBSForeignServer
JNDI Initial Context Factory:	weblogic.jndi.WLInitialConte:
 JNDI Connection URL:	t3://<EHMS_WLS_SERVER>:<EHMS_WLS_SERVER_PORT>/
JNDI Properties Credential:	<input type="text"/>
Confirm JNDI Properties Credential:	<input type="text"/>
JNDI Properties:	<pre>java.naming.security.principal= <EHMS_WLS_USERNAME></pre>

- 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 servers can be used.

 Name:	UBSForeignServer
JNDI Initial Context Factory:	weblogic.jndi.WLInitialConte:
 JNDI Connection URL:	t3://<EHMS_WLS_SERVER>:<EHMS_WLS_SERVER_PORT>/
JNDI Properties Credential:	<input type="text"/>
Confirm JNDI Properties Credential:	<input type="text"/>
JNDI Properties:	<pre>java.naming.security.principal= <EHMS_WLS_USERNAME></pre>

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

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 connection factory and destination objects (queues or topics) can be defined on one JNDI foreign server.

Name:	UBSForeignServer	The name of this foreign server. More Info...
JNDI Initial Context Factory:	weblogic.jndi.WLInitialConte	The name of the class that must be instantiated to access the JNDI provider. This class is the vendor that are being used. More Info...
JNDI Connection URL:	t3://10.184.135.59:7860/	The URL that WebLogic Server will use to contact the JNDI provider. The syntax of this URL is being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic JMS. More Info...
JNDI Properties Credential:	*****	Any Credentials that must be set for the JNDI provider. These Credentials will be part of the constructor for the JNDI provider's InitialContext class. Note: For secure credentials, the Properties field results in the credential being stored and displayed as originally entered.
Confirm JNDI Properties Credential:	*****	Any additional properties that must be set for the JNDI provider. These properties will be part of the constructor for the JNDI provider's InitialContext class. More Info...
JNDI Properties:	java.naming.security.principal=infra	Any additional properties that must be set for the JNDI provider. These properties will be part of the constructor for the JNDI provider's InitialContext class. More Info...
Default Targeting Enabled	<input checked="" type="checkbox"/>	Specifies whether this JMS resource defaults to the parent module's targeting or uses the module's targeting. More Info...
Save	<input type="button" value="Save"/>	

Home >Summary of JMS Modules >UBSSystemModule >Summary of JMS Modules >UBSSystemModule >Summary of JMS Modules >UBSSystemModule >UBSForeignServer >Configuration >NOTIFY_DEST_QUEUE_FCDB >UBSForeignServer

Messages

Settings updated successfully.

Settings for UBSForeignServer

Configuration Subdeployment Notes

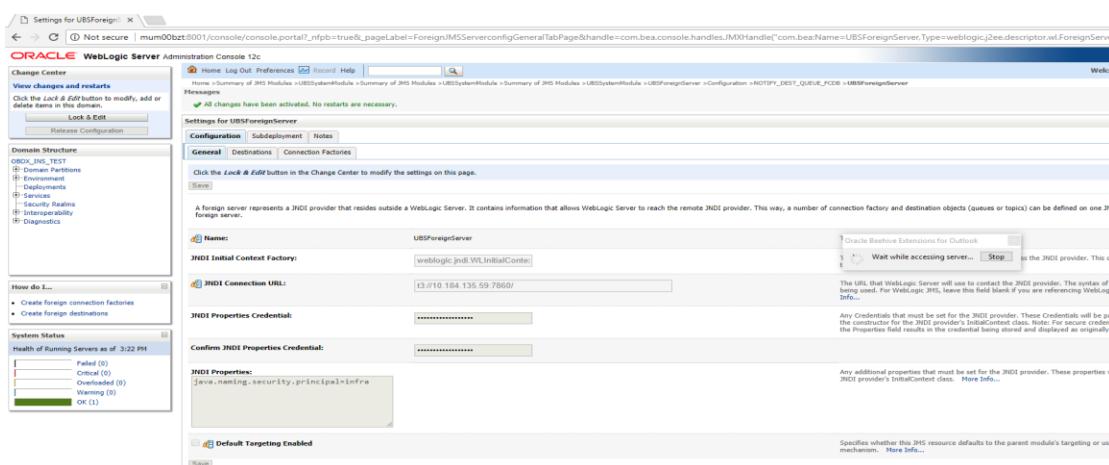
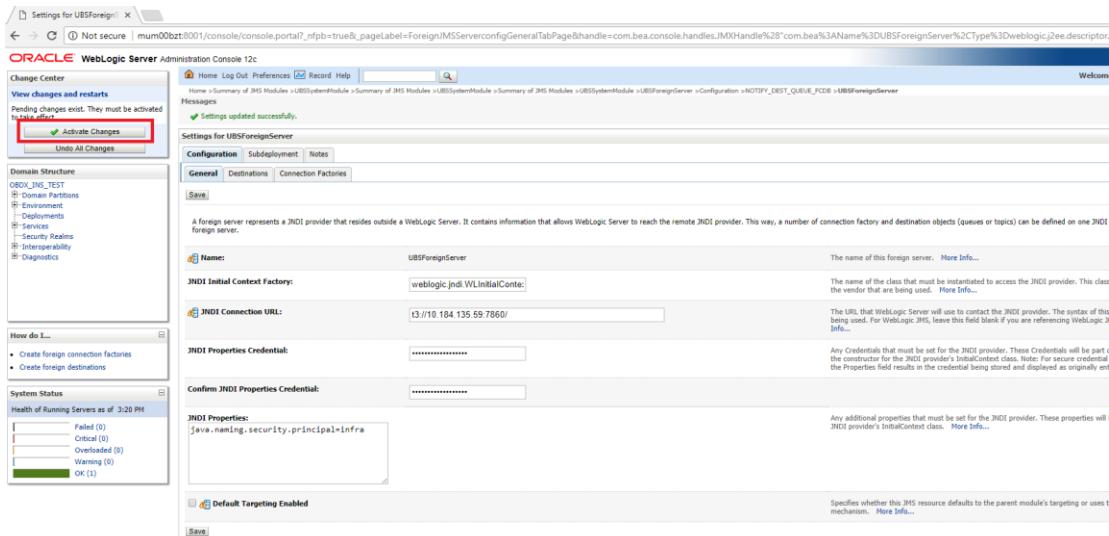
General Destinations Connection Factories

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 connection factory and destination objects (queues or topics) can be defined on one JNDI foreign server.

Name:	UBSForeignServer	The name of this foreign server. More Info...
JNDI Initial Context Factory:	weblogic.jndi.WLInitialConte	The name of the class that must be instantiated to access the JNDI provider. This class is the vendor that are being used. More Info...
JNDI Connection URL:	t3://10.184.135.59:7860/	The URL that WebLogic Server will use to contact the JNDI provider. The syntax of this URL is being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic JMS. More Info...
JNDI Properties Credential:	*****	Any Credentials that must be set for the JNDI provider. These Credentials will be part of the constructor for the JNDI provider's InitialContext class. Note: For secure credentials, the Properties field results in the credential being stored and displayed as originally entered.
Confirm JNDI Properties Credential:	*****	Any additional properties that must be set for the JNDI provider. These properties will be part of the constructor for the JNDI provider's InitialContext class. More Info...
JNDI Properties:	java.naming.security.principal=infra	Any additional properties that must be set for the JNDI provider. These properties will be part of the constructor for the JNDI provider's InitialContext class. More Info...
Default Targeting Enabled	<input checked="" type="checkbox"/>	Specifies whether this JMS resource defaults to the parent module's targeting or uses the module's targeting. More Info...
Save	<input type="button" value="Save"/>	

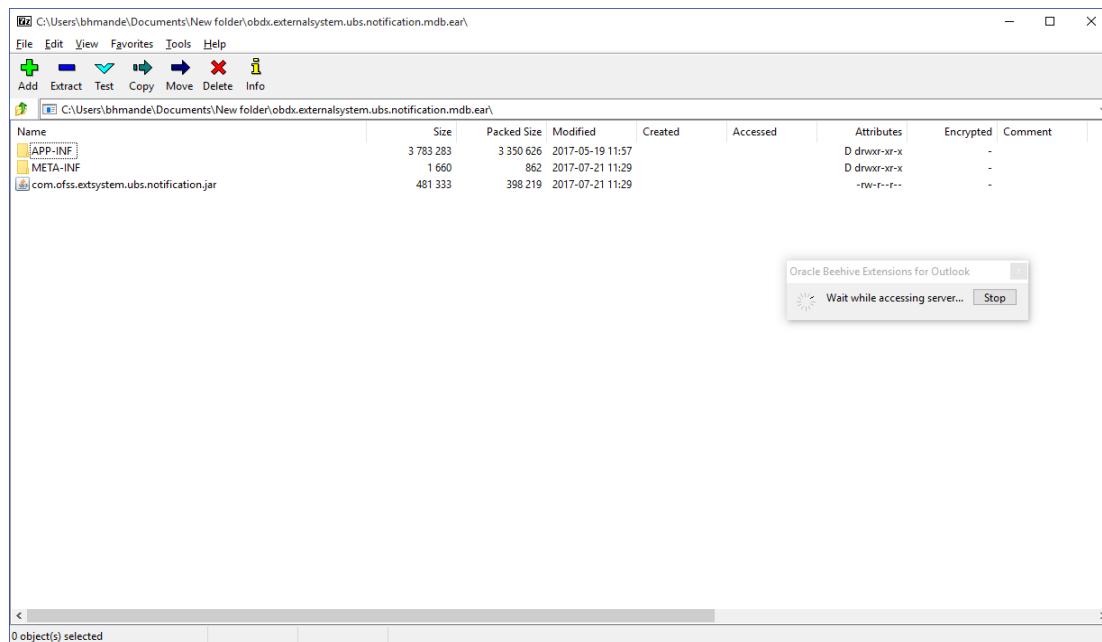
- Click on Activate Changes



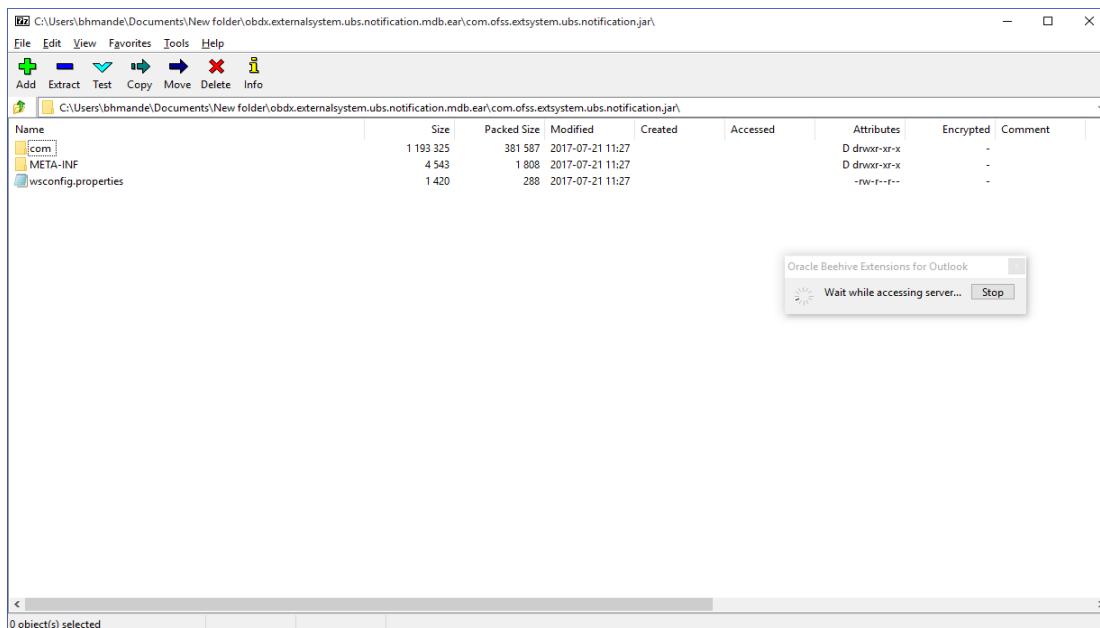
Deployment of notification MDB application

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

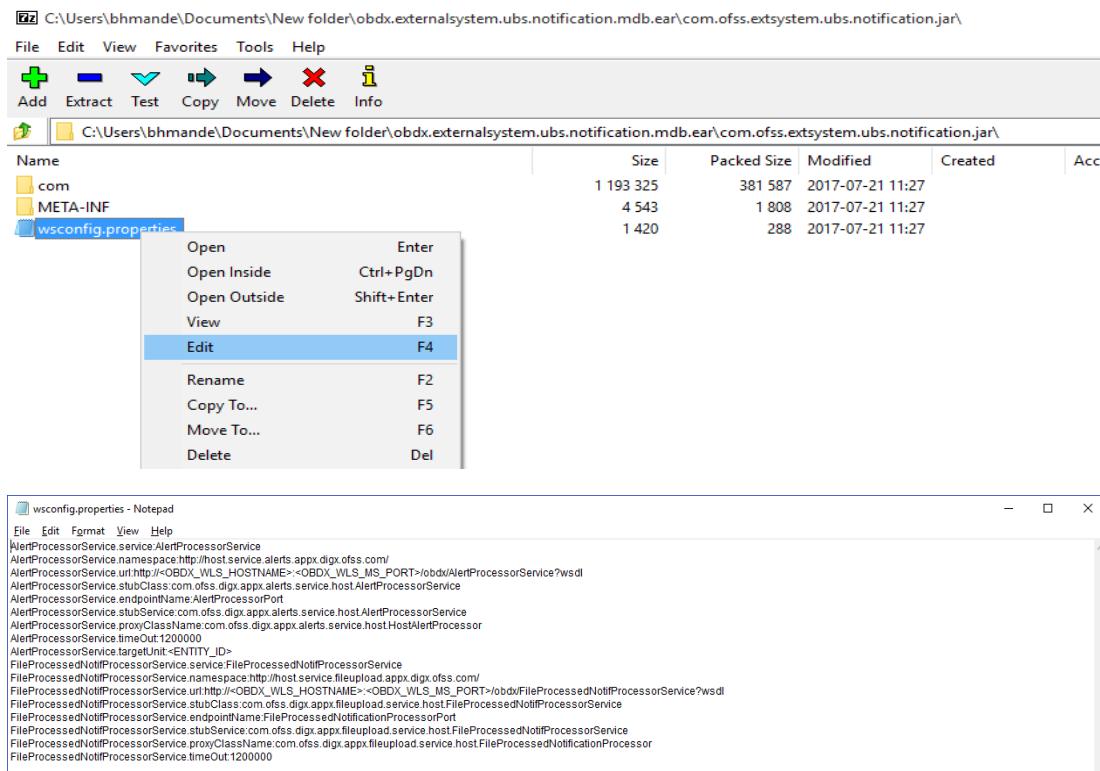
- Open the obdx.externalsystem.ubs.notification.mdb.ear (EAR file is available <OBDX INSTALLER DIR>/installables/app/components/ubs/deploy/obdx.externalsystem.ubs.notification.mdb.ear) using any archiving tools (i.e.: 7-zip)



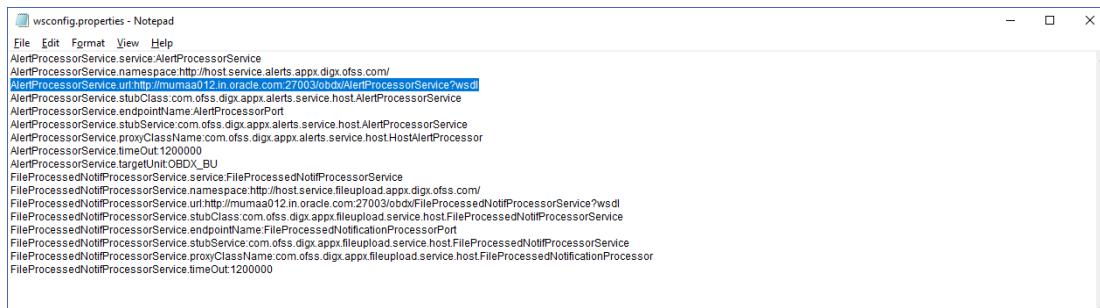
- Double click on com.ofss.extsystem.ubs.notification.jar



- Open the wsconfig.properties to edit



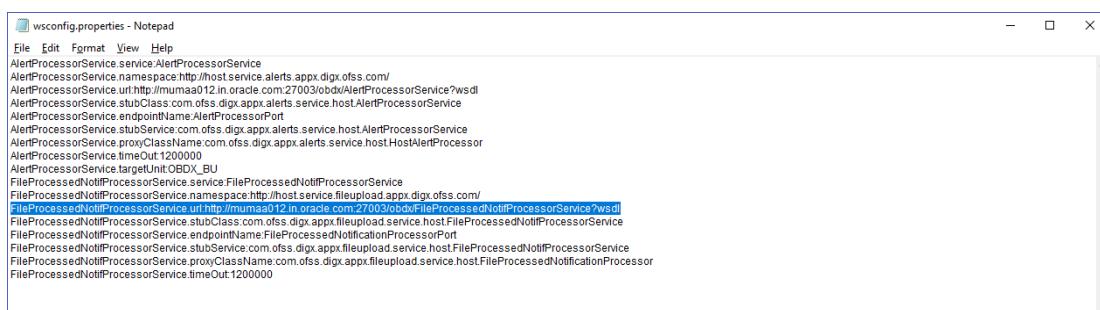
- Change the URL for AlertProcessorService.url, FileProcessedNotifProcessorService.url and AlertProcessorService.targetUnit (Note the hostname and port should be of OBDX managed server created by installer. Entity ID should be OBDX_BU for Base entity)



```

wsconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service.AlertProcessorService
AlertProcessorService.namespace.http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url.http://numaa012.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.HostAlertProcessor
AlertProcessorService.timeOut:1200000
AlertProcessorService.targetUnit:OBDX_BU
FileProcessedNotifProcessorService.service.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.namespace.http://host.service.fileupload.appx.digx.ofss.com/
FileProcessedNotifProcessorService.url.http://numaa012.in.oracle.com:27003/obdx/FileProcessedNotifProcessorService?wsdl
FileProcessedNotifProcessorService.stubClass.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.endpointName.FileProcessedNotifProcessorPort
FileProcessedNotifProcessorService.stubService.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.proxyClassName.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessor
FileProcessedNotifProcessorService.timeOut:1200000

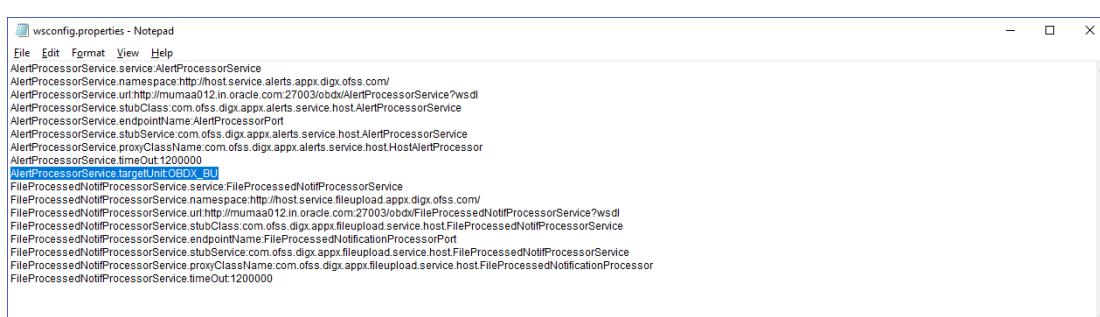
```



```

wsconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service.AlertProcessorService
AlertProcessorService.namespace.http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url.http://numaa012.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.HostAlertProcessor
AlertProcessorService.timeOut:1200000
AlertProcessorService.targetUnit:OBDX_BU
FileProcessedNotifProcessorService.service.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.namespace.http://host.service.fileupload.appx.digx.ofss.com/
FileProcessedNotifProcessorService.url.http://numaa012.in.oracle.com:27003/obdx/FileProcessedNotifProcessorService?wsdl
FileProcessedNotifProcessorService.stubClass.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.endpointName.FileProcessedNotifProcessorPort
FileProcessedNotifProcessorService.stubService.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.proxyClassName.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessor
FileProcessedNotifProcessorService.timeOut:1200000

```

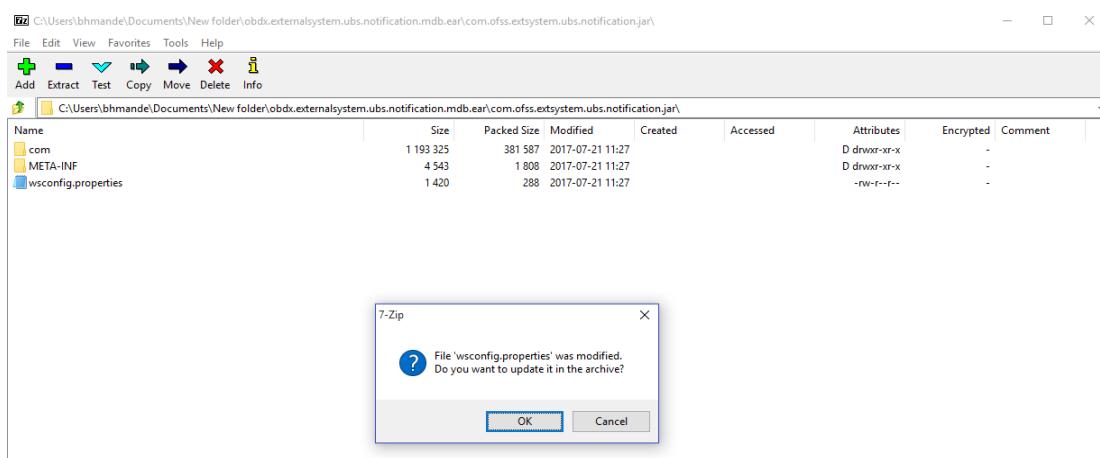


```

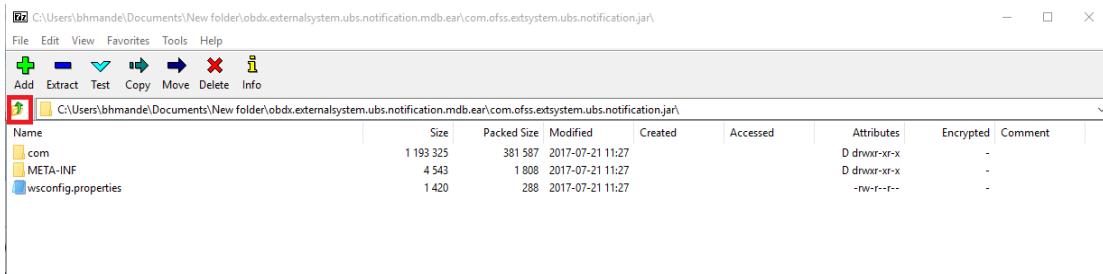
wsconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service.AlertProcessorService
AlertProcessorService.namespace.http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url.http://numaa012.in.oracle.com:27003/obdx/AlertProcessorService?wsdl
AlertProcessorService.stubClass.com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.endpointName.AlertProcessorPort
AlertProcessorService.stubService.com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.proxyClassName.com.ofss.digx.appx.alerts.service.host.HostAlertProcessor
AlertProcessorService.timeOut:1200000
AlertProcessorService.targetUnit:OBDX_BU
FileProcessedNotifProcessorService.service.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.namespace.http://host.service.fileupload.appx.digx.ofss.com/
FileProcessedNotifProcessorService.url.http://numaa012.in.oracle.com:27003/obdx/FileProcessedNotifProcessorService?wsdl
FileProcessedNotifProcessorService.stubClass.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.endpointName.FileProcessedNotifProcessorPort
FileProcessedNotifProcessorService.stubService.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.proxyClassName.com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessor
FileProcessedNotifProcessorService.timeOut:1200000

```

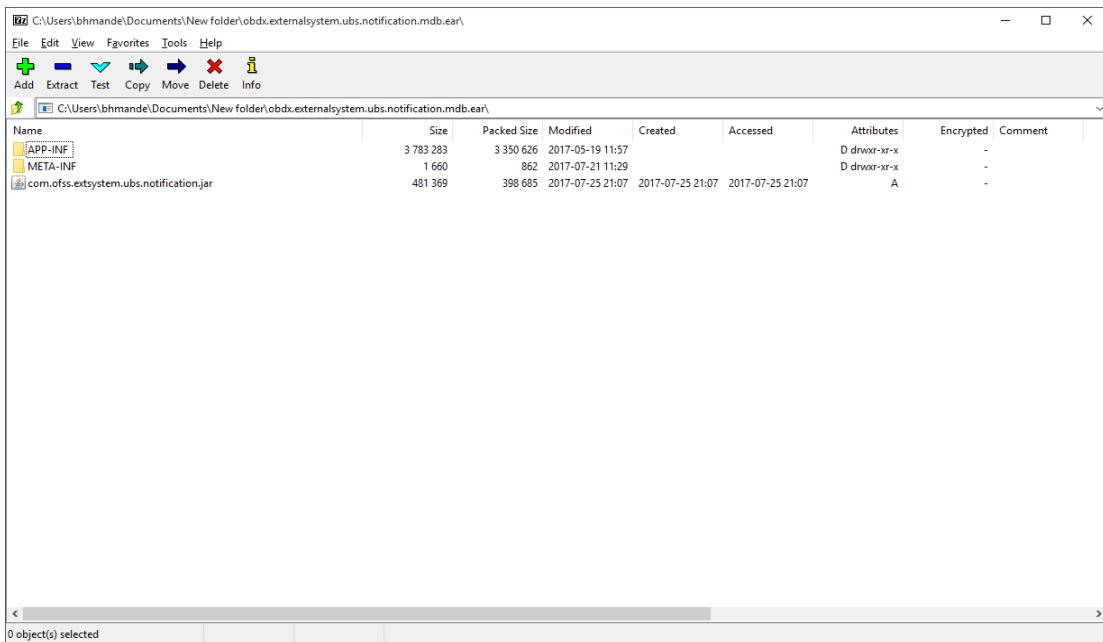
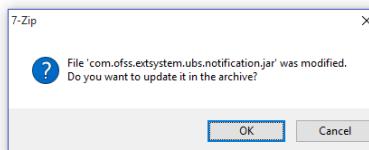
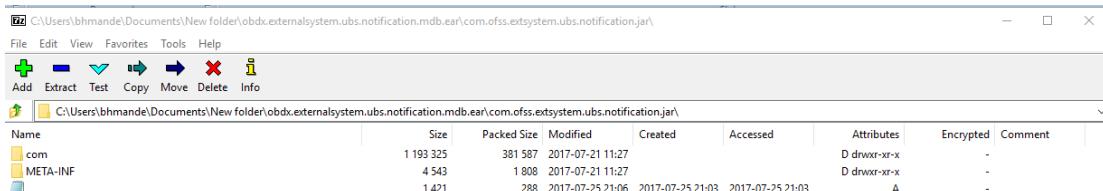
- Save changes.
- Click OK.



- Navigate back to `obdx.externalsystem.ubs.notification.mdb.ear`



- Click OK



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

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

Summary of Deployments

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

- Resource Groups
- Resource Group Templates
- Machines
- Virtual Hosts
- Virtual Targets
- Work Managers
- Concurrent Templates
- Resource Management
- Startup and Shutdown Classes
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I...

- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application
- Monitor the modules of an enterprise application
- Deploy EJB modules
- Install a Web application

System Status

Health of Running Servers as of 3:42 PM

Failed (0)	Critical (0)	Overloaded (0)	Warning (0)	OK (1)
------------	--------------	----------------	-------------	--------

Install | Update | Delete

Deployments

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
adf.oracle.businesseditor(1.0.12.2.1.1.0)	Active	Library	AdminServer	Global	100		
adf.oracle.domain(1.0.12.2.1.1.0)	Active	Library	AdminServer	Global	100		
adf.oracle.domain.webapp(1.0.12.2.1.1.0)	Active	Library	AdminServer	Global	100		
AuditMDBEAR	New	Enterprise Application	InstallerTest	Global	100		
patchResourceAdapter	New	Enterprise Application	InstallerTest	Global	100		
coherence-transaction-rar	Active ✓ OK	Resource Adapter	AdminServer	Global	100		
com.ubs.dgs.app.connector	New	Enterprise Application	InstallerTest	Global	100		
com.ubs.dgs.ubs.service.rest	New	Enterprise Application	InstallerTest	Global	100		
com.ubs.dgs.ubs.service.soap	New	Enterprise Application	InstallerTest	Global	100		
OMS Application (12.2.1.1.0)	Active ✓ OK	Web Application	AdminServer	Global	5		

Install | Update | Delete

Showing 1 to 10 of 69 | Previous | Next

WebLogic Server Version: 12.2.1.2.0
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- Click Lock & Edit

Summary of Deployments

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

- Resource Groups
- Resource Group Templates
- Machines
- Virtual Hosts
- Virtual Targets
- Work Managers
- Concurrent Templates
- Resource Management
- Startup and Shutdown Classes
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I...

- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application
- Monitor the modules of an enterprise application
- Deploy EJB modules
- Install a Web application

System Status

Health of Running Servers as of 3:42 PM

Failed (0)	Critical (0)	Overloaded (0)	Warning (0)	OK (1)
------------	--------------	----------------	-------------	--------

Install | Update | Delete

Deployments

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
adf.oracle.businesseditor(1.0.12.2.1.1.0)	Active	Library	AdminServer	Global	100		
adf.oracle.domain(1.0.12.2.1.1.0)	Active	Library	AdminServer	Global	100		
adf.oracle.domain.webapp(1.0.12.2.1.1.0)	Active	Library	AdminServer	Global	100		
AuditMDBEAR	New	Enterprise Application	InstallerTest	Global	100		
patchResourceAdapter	New	Enterprise Application	InstallerTest	Global	100		
coherence-transaction-rar	Active ✓ OK	Resource Adapter	AdminServer	Global	100		
com.ubs.dgs.app.connector	New	Enterprise Application	InstallerTest	Global	100		
com.ubs.dgs.ubs.service.rest	New	Enterprise Application	InstallerTest	Global	100		
com.ubs.dgs.ubs.service.soap	New	Enterprise Application	InstallerTest	Global	100		
OMS Application (12.2.1.1.0)	Active ✓ OK	Web Application	AdminServer	Global	5		

Install | Update | Delete

Showing 1 to 10 of 69 | Previous | Next

WebLogic Server Version: 12.2.1.2.0
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Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

- Click on Install

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The left sidebar shows 'Domain Structure' with various components like Resource Groups, Machines, and Deployments. The main content area is titled 'Summary of Deployments'. It displays a table of deployed applications:

Name	State	Health	Type	Targets
odf.oracle.businesseditor(1.0.12.2.1.1.0)	Active		Library	AdminServer
odf.oracle.domain(1.0.12.2.1.1.0)	Active		Library	AdminServer

The 'Install' button in the toolbar is highlighted with a red box.

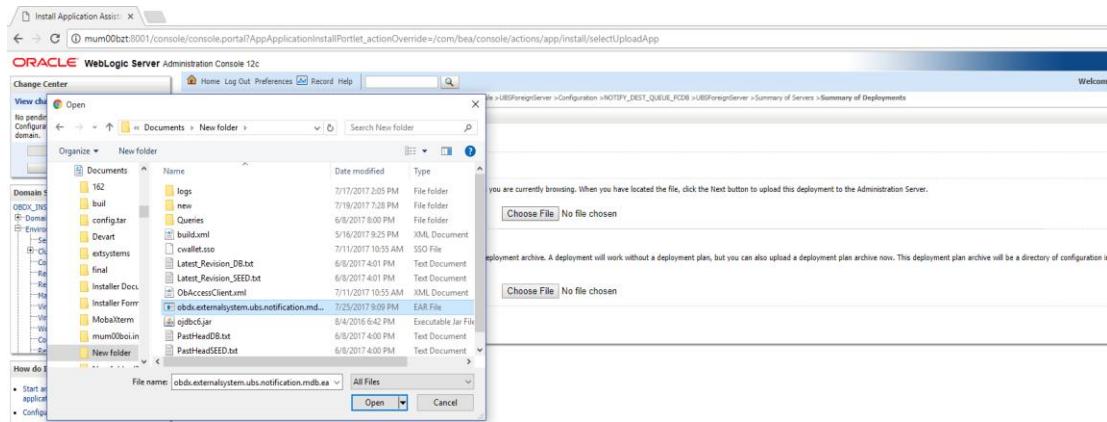
- Click on Upload your file(s)

The screenshot shows the 'Install Application Assistant' page. The left sidebar shows 'Domain Structure' with 'OBDX_INS_TEST' selected. The main content area is titled 'Locate deployment to install and prepare for deployment'. It shows the path '/home/devops/domain/OBDX_INS_TEST' and a 'Recentiy Used Paths' section. The 'Upload your file(s)' input field is highlighted with a red box.

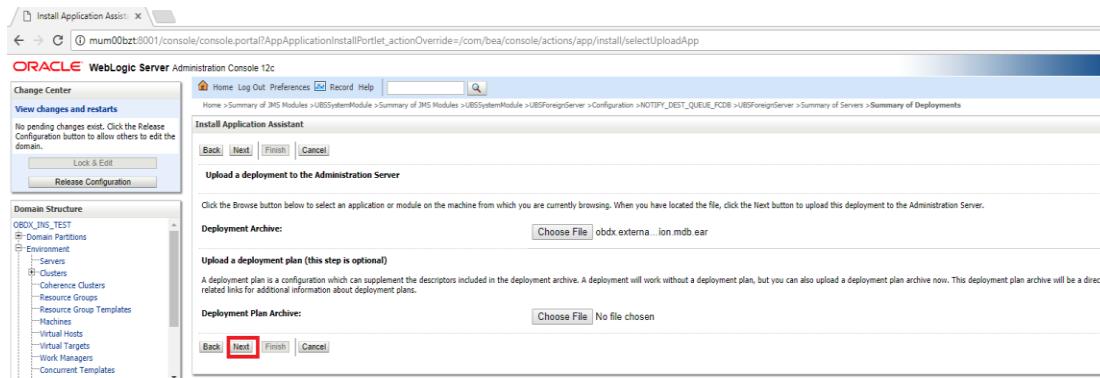
- Click on Choose File under Deployment Archive

The screenshot shows the 'Install Application Assistant' page. The left sidebar shows 'Domain Structure' with 'OBDX_INS_TEST' selected. The main content area is titled 'Upload a deployment to the Administration Server'. It has sections for 'Deployment Archive' (with a 'Choose File' button highlighted with a red box) and 'Deployment Plan Archive' (with a 'Choose File' button and 'No file chosen' message). The 'Deployment Plan Archive' section is described as optional.

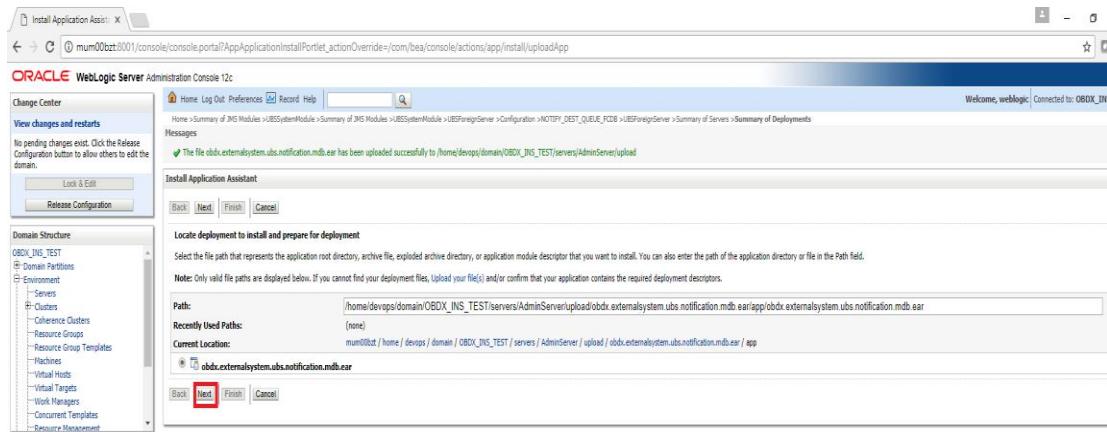
- Navigate to customized obdx.externalsystem.ubs.notification.mdb.ear and click Open



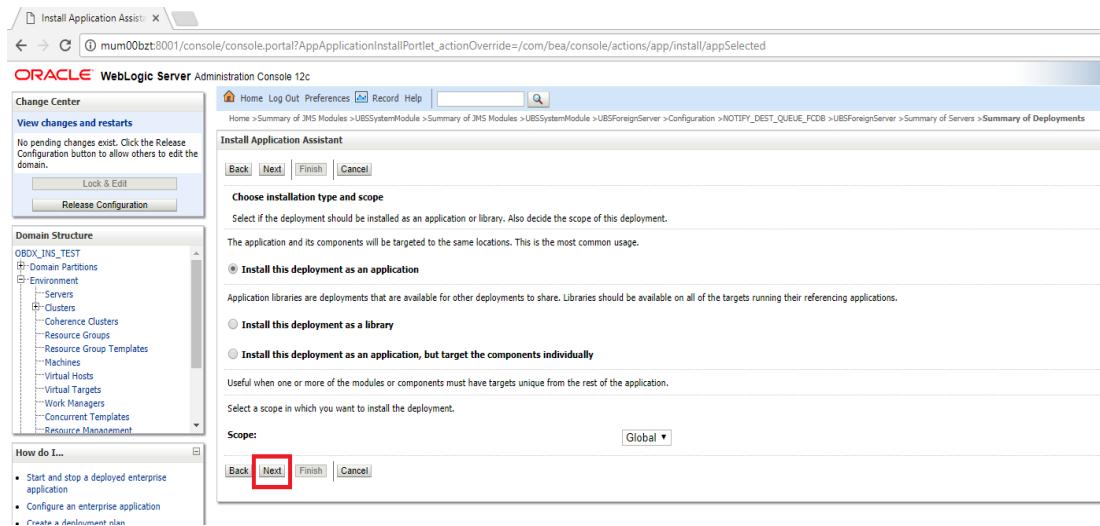
- Click Next



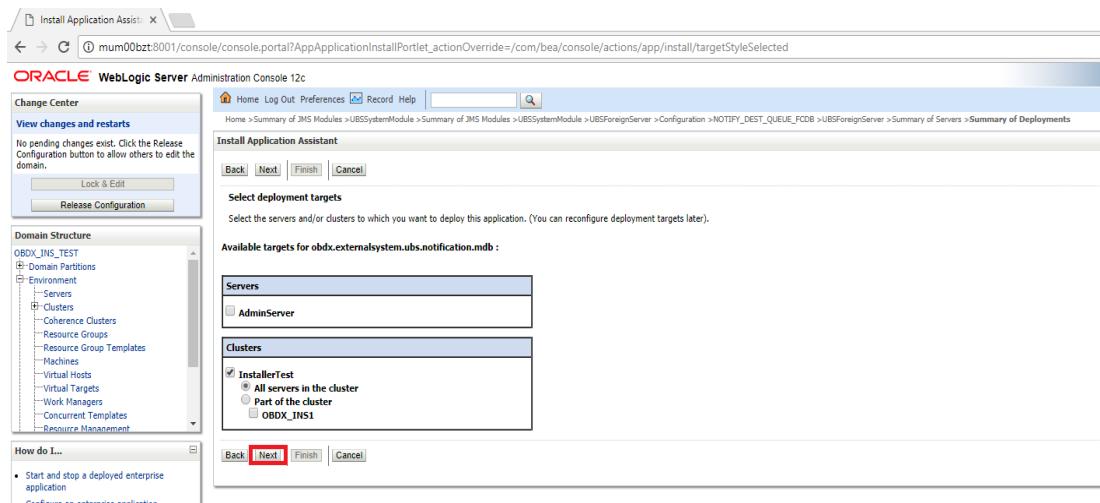
- Click Next



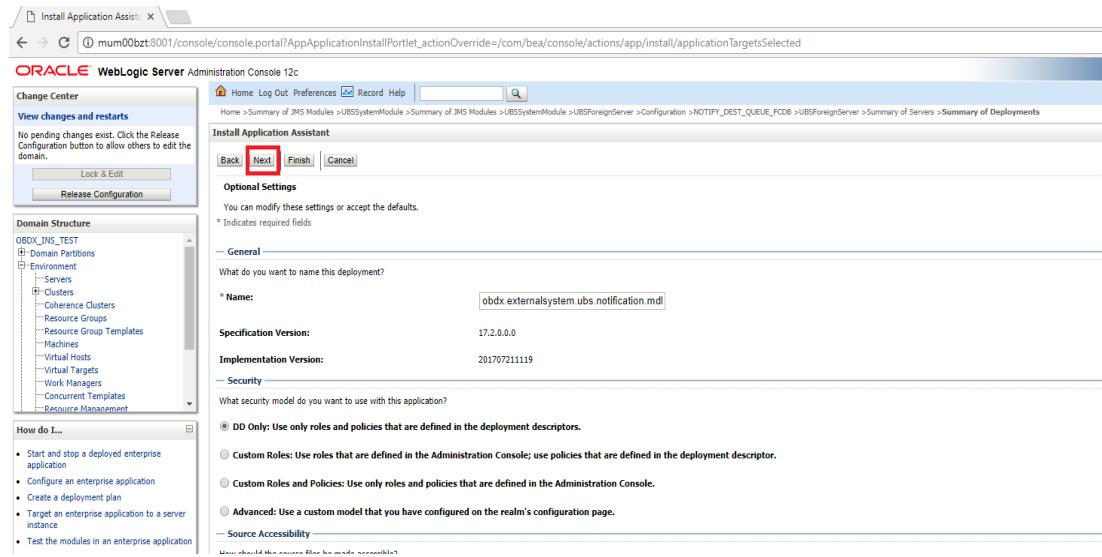
- Select “Install this deployment as an application” and click Next



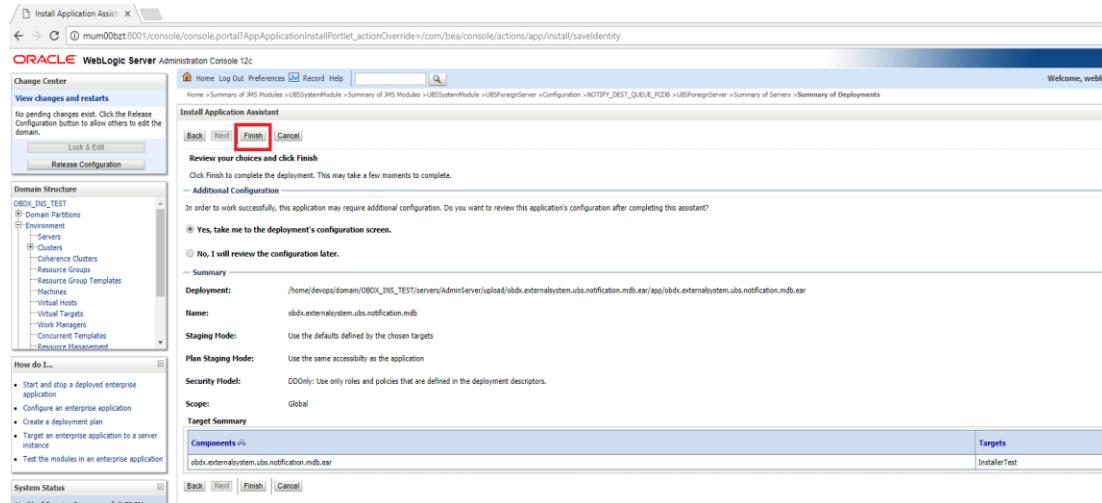
- Select Cluster as target and click Next



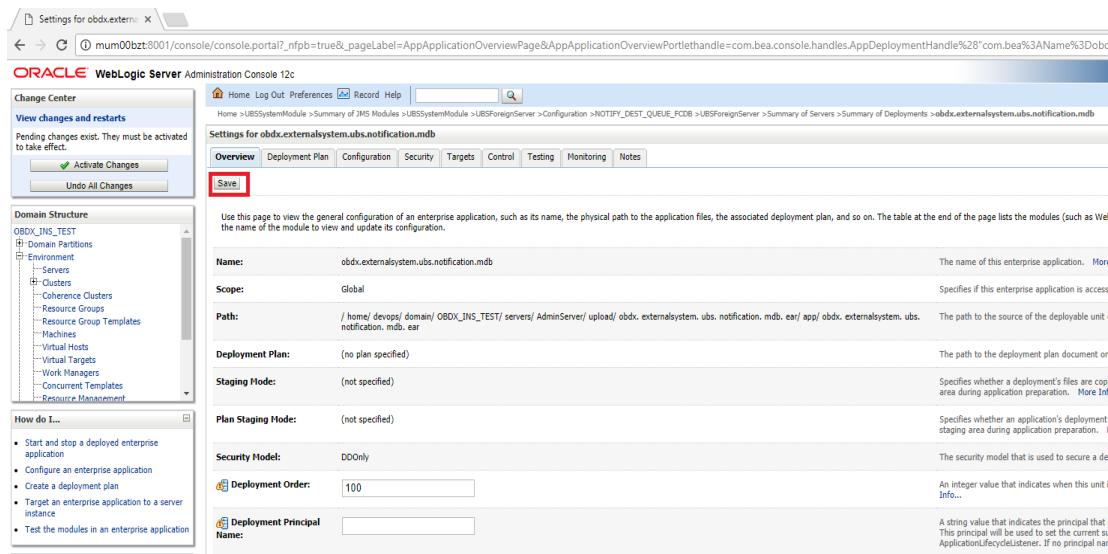
- Click Next



- Click Finish.



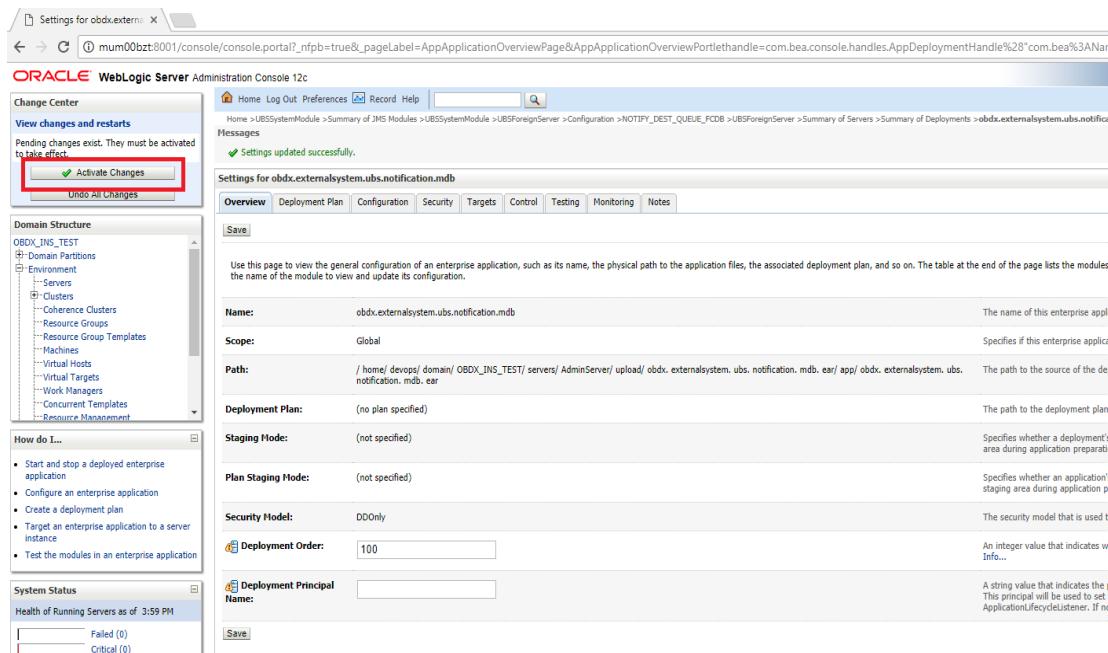
- Click Save.



The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar shows the 'Domain Structure' for 'OBDX_INS_TEST' with various partitions like Environment, Servers, Clusters, and Coherence Clusters. The main content area is titled 'Settings for obdx.externalsystem.ubs.notification.mdb'. It has tabs for Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. The 'Save' button is highlighted with a red box. The configuration details include:

- Name:** obdx.externalsystem.ubs.notification.mdb
- Scope:** Global
- Path:** /home/devops/domain/OBDX_INS_TEST/servers/AdminServer/upload/obdx.externalsystem.ubs.notification.mdb.ear/app/obdx.externalsystem.ubs.notification.mdb.ear
- Deployment Plan:** (no plan specified)
- Staging Mode:** (not specified)
- Plan Staging Mode:** (not specified)
- Security Model:** DDOOnly
- Deployment Order:** 100
- Deployment Principal Name:** (empty)

- Click Activate Changes



The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar shows the 'Domain Structure' for 'OBDX_INS_TEST'. The main content area is titled 'Settings for obdx.externalsystem.ubs.notification.mdb'. It has tabs for Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. The 'Activate Changes' button is highlighted with a red box. The configuration details are identical to the previous screenshot, including the 'Save' button highlighted in red.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar shows the domain structure of 'OBDX_INS_TEST' with various components like Domain Partitions, Environment, Servers, Clusters, Resource Groups, and Resource Management. The main content area is titled 'Settings for obdx.externalsystem.ubs.notification.mdb'. It shows the configuration for an enterprise application with the following details:

- Name:** obdx.externalsystem.ubs.notification.mdb
- Scope:** Global
- Path:** /home/depus/domain/OBDX_INS_TEST/servers/AdminServer/upload/obdx.externalsystem.ubs.notification.mdb
- Deployment Plan:** (no plan specified)
- Deployment Order:** 100

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

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

Foreign Server

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar shows the domain structure of 'OBDX_INS_TEST' with various components like Domain Partitions, Environment, Servers, Clusters, Resource Groups, and Resource Management. The main content area is titled 'Settings for OBPMSystemModule'. It shows the configuration for a JMS system module with the following details:

- Name:** OBPMSystemModule
- Scope:** Global
- Descriptor File Name:** jms/obpmsystemmodule-jms.xml

The 'Summary of Resources' section shows a table of resources:

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 obdx.externalsystem.obpm.notification.mdb.ear application, make changes similar to obdx.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**

[Home](#)

9. OBDX Product Verification

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

  AuditMDBEAR	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  BatchResourceAdapter	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  coherence-transaction-rar	Active	 OK	Resource Adapter	AdminServer, obdx_cluster	Global		100
  com.ofss.digx.app.connector	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  ExtfaceSimulatorMDB	Active	 OK	Enterprise Application	obdx_cluster	Global		0

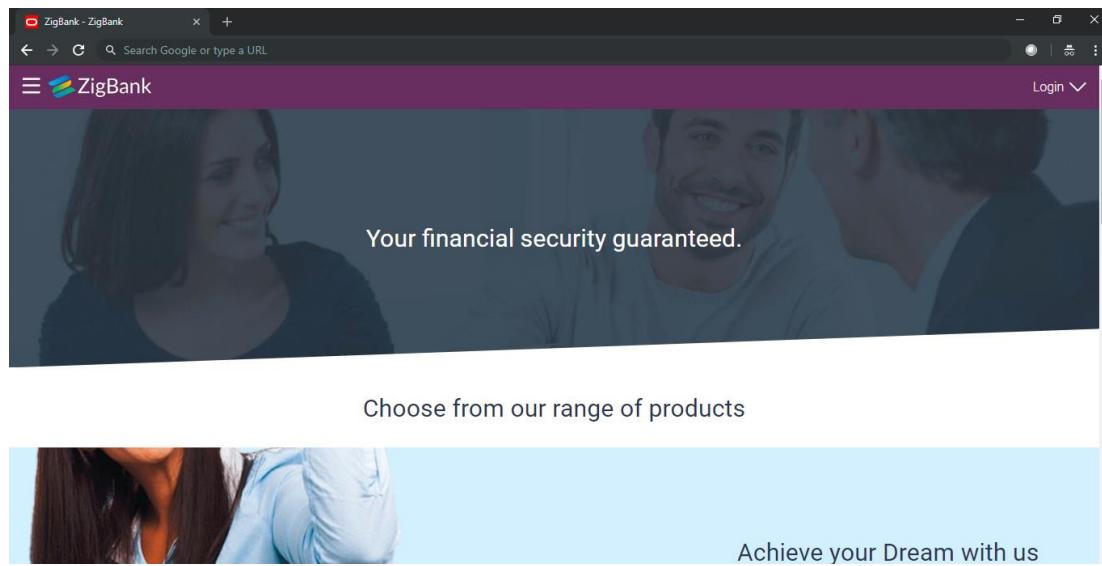
  obdx.app.chatbot	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  obdx.app.core.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
  obdx.app.core.patch(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
  obdx.app.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
  obdx.app.framework(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
  obdx.app.mdb.report	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  obdx.app.oauth	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  obdx.app.rest.idm	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  obdx.app.smsbanking	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  obdx.app.soap	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  obdx.app.timer	Active	 OK	Enterprise Application	obdx_cluster	Global		100
  obdx.cz.app.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
  obdx.cz.extsystem.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
  obdx.cz.thirdparty.app.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
  obdx.cz.extsystem.domain(19.1.0.0.0,715)	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-Requisite 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 (OBDX 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 (OBDX 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. OBDX 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
('obdx.host.account.uniqueness','ExtSystemsConfig','BRANCH','<ENTITY_ID>','ofssuser',sysdate,'ofs
suser',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
('obdx.host.accountbranch.delimiter','ExtSystemsConfig','@~','<ENTITY_ID>','ofssuser',sysdate,'of
ssuser',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 obdx.app.rest.idm from deployments.

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

Refer to manual deployment steps provided for obdx.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 OBDX domain (created by Installer) using the following URL:

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

- Now, go to Security Realms > myrealm > Providers

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

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

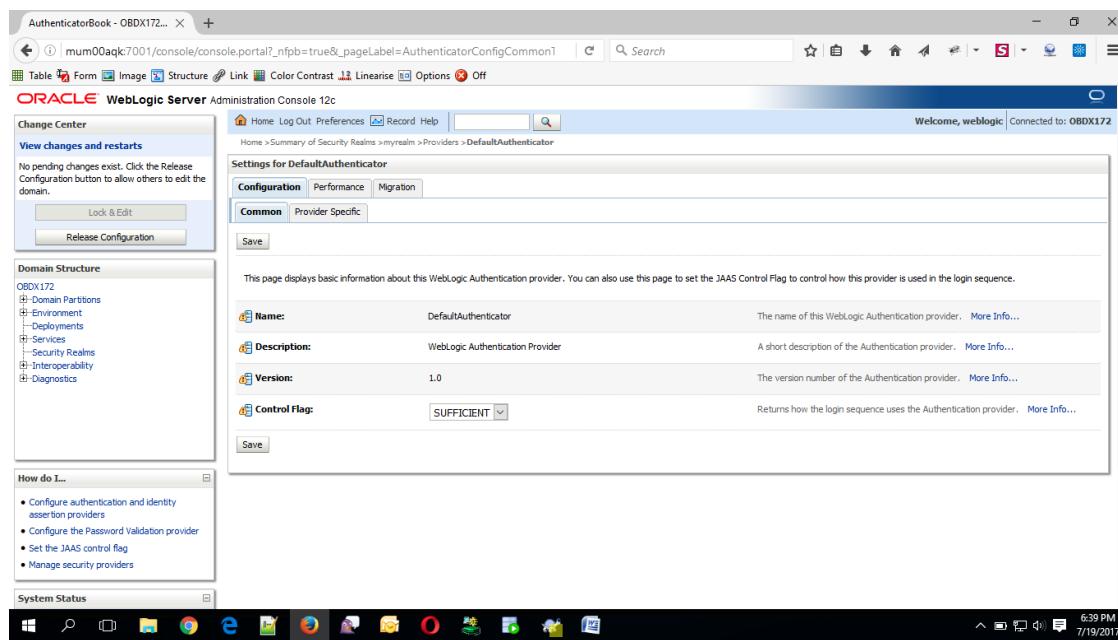
DBAuthenticator

SQLAuth

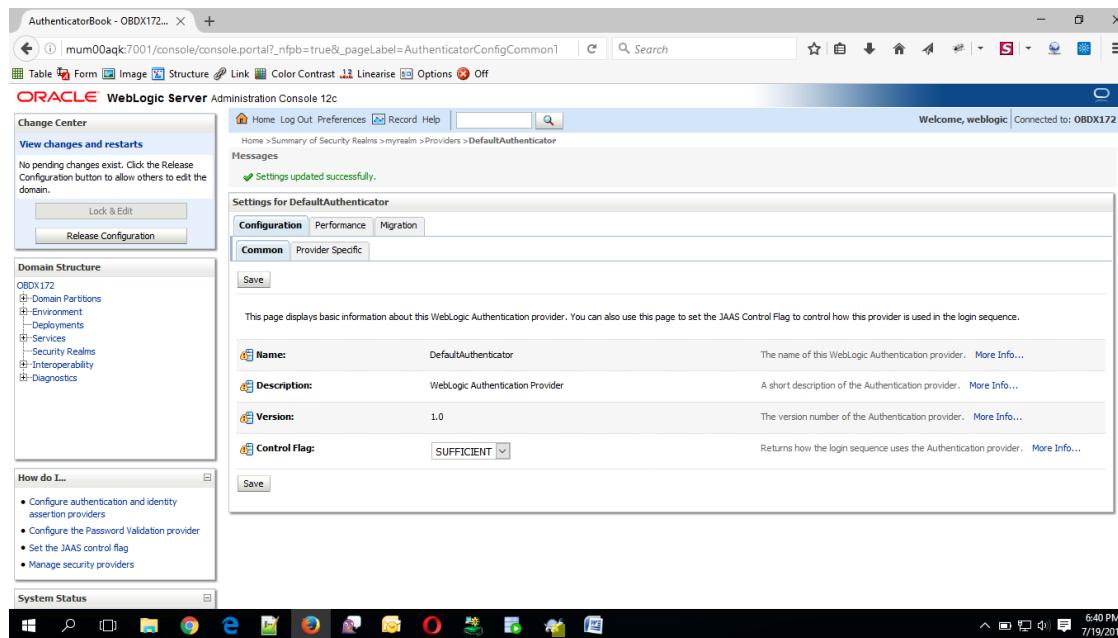
Name	Description	Version
DBAuthenticator	OBDX - DB Authenticator	1.0
SQLAuth	Provider that performs DBMS authentication	1.0
OBDJWT	OBDX JWT Identity Asserter Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAssertion	WebLogic Identity Assertion provider	1.0

Name	Description	Version
OBDJWT	OBDX JWT Identity Asserter Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAssertion	WebLogic Identity Assertion provider	1.0

- 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

Name	Description	Version
OBDJWT	OBDJWT Identity Assembler Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAssembler	WebLogic Identity Assertion provider	1.0

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

Name : OUDAuthenticator

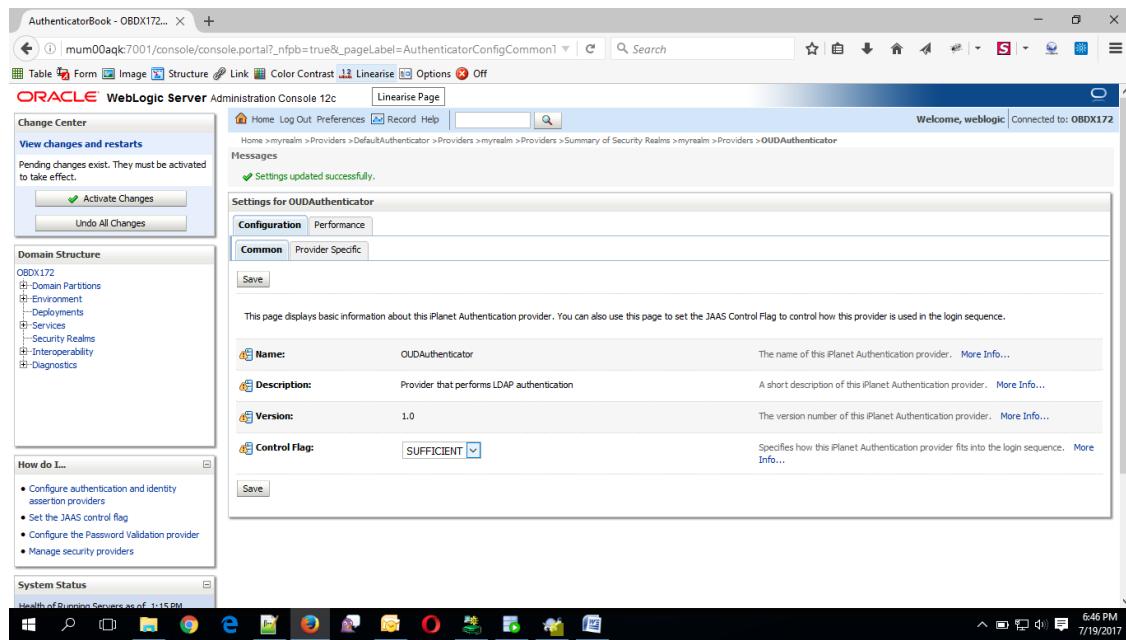
Type : OracleUnifiedDirectoryAuthenticator

- Click on OK Button.

Name	Description	Version
OBOXJWT	OBOX JWT Identity Asserter Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAssertion	WebLogic Identity Assertion provider	1.0
OUDAuthenticator	Provider that performs LDAP authentication	1.0

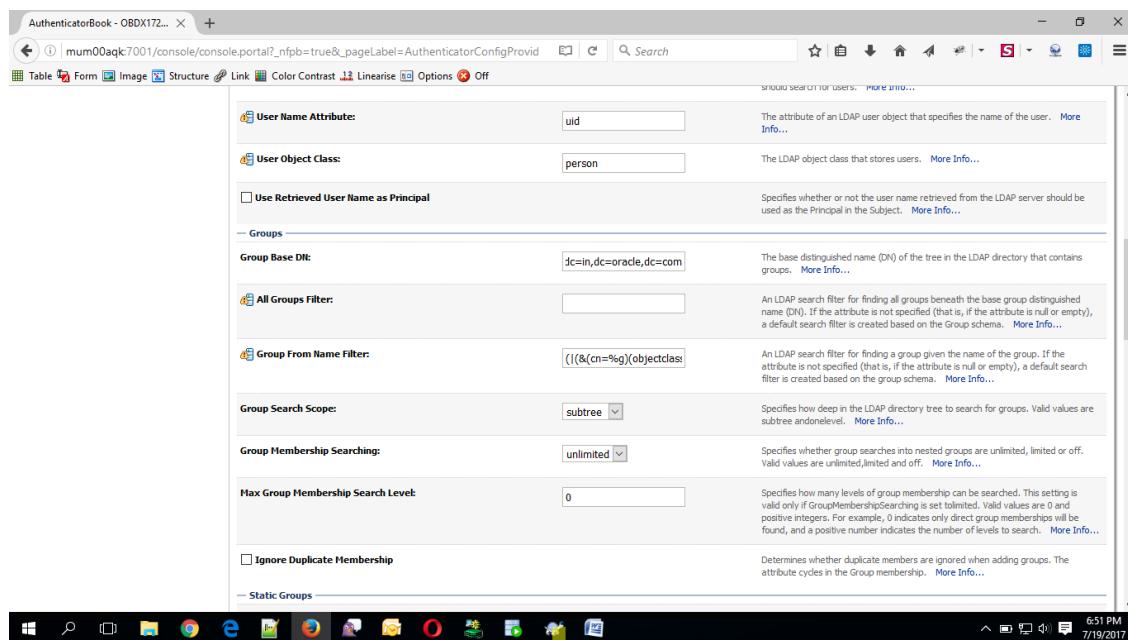
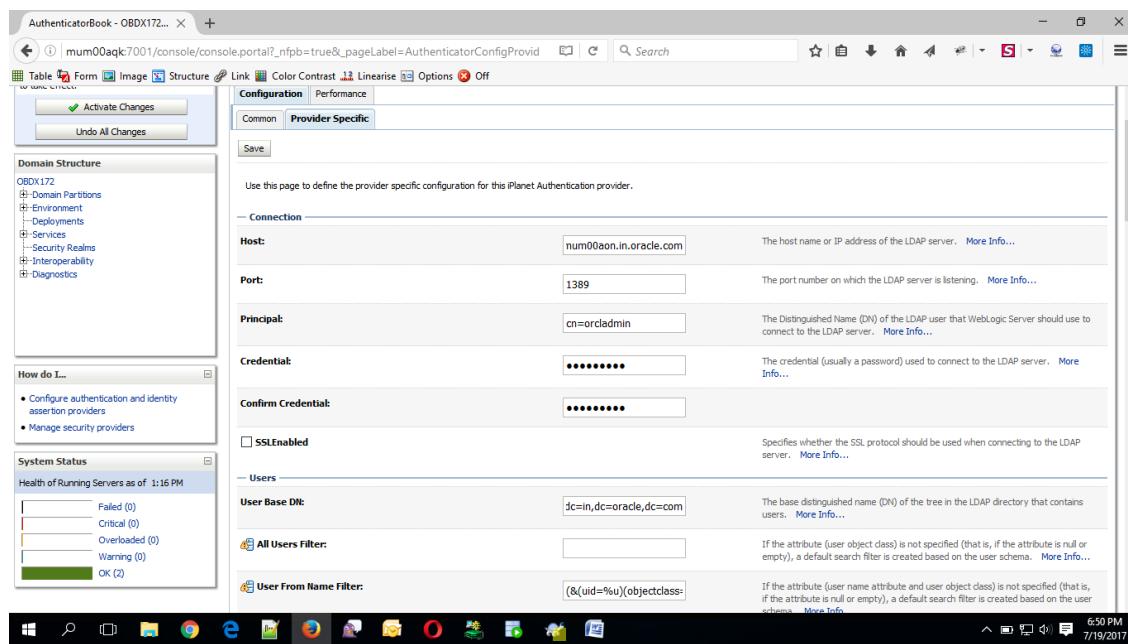
Now Click on OUDAuthenticator and select Control Flag as “SUFFICIENT”

- Click on Save Button.

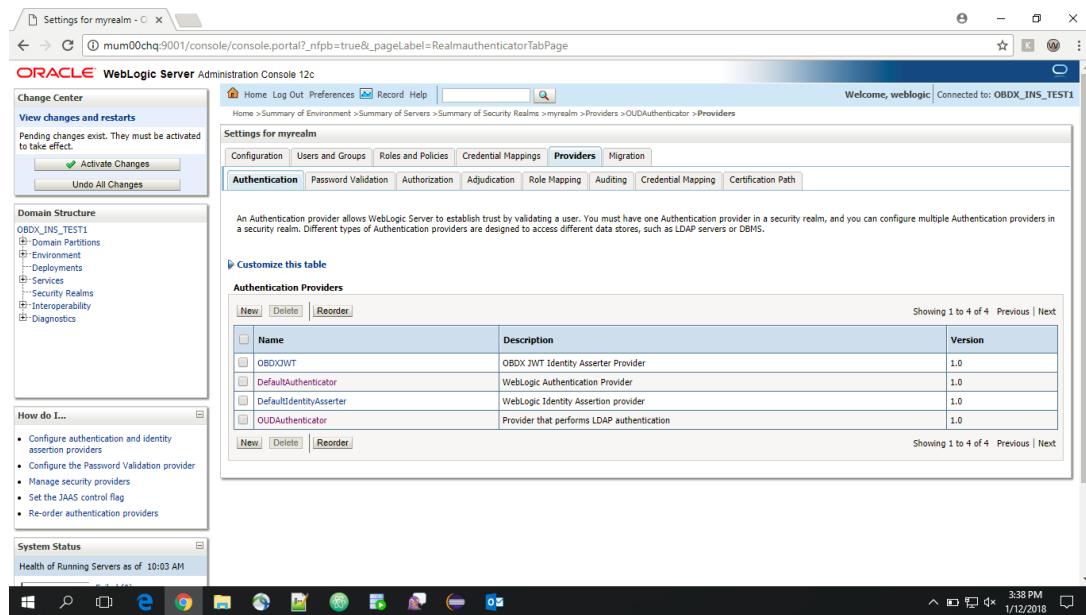


- Now under Provider Specific tab set the details of LDAP where the server should point. Refer to the following table for more information:

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



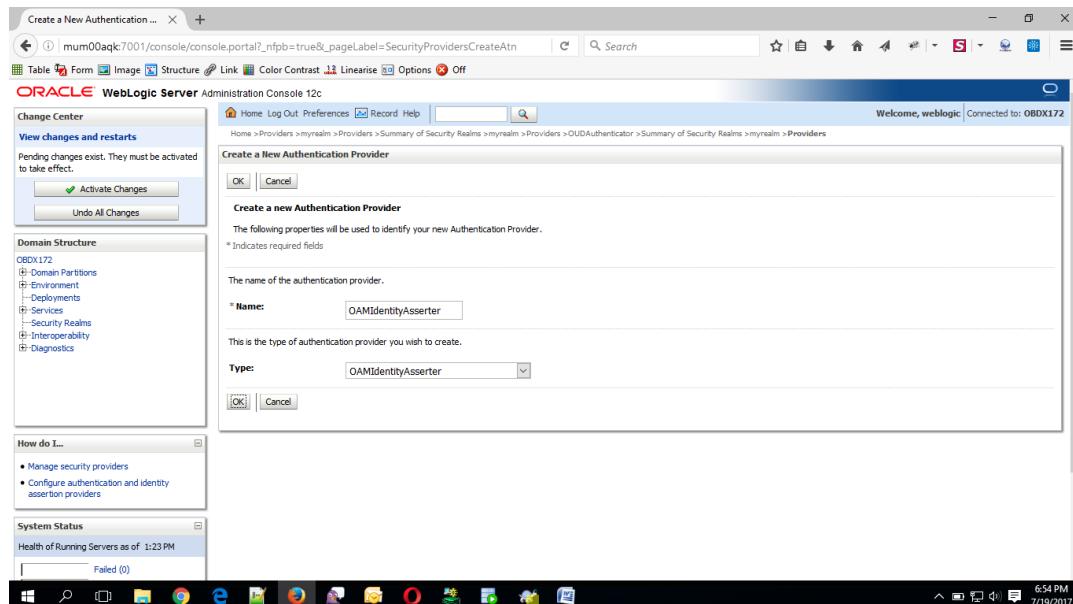
- Click on Save to update the changes.
- Navigate Back to Security Realms > myrealm > Providers



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

Name : OAMIdentityAsserter

Type : OAMIdentityAssertor

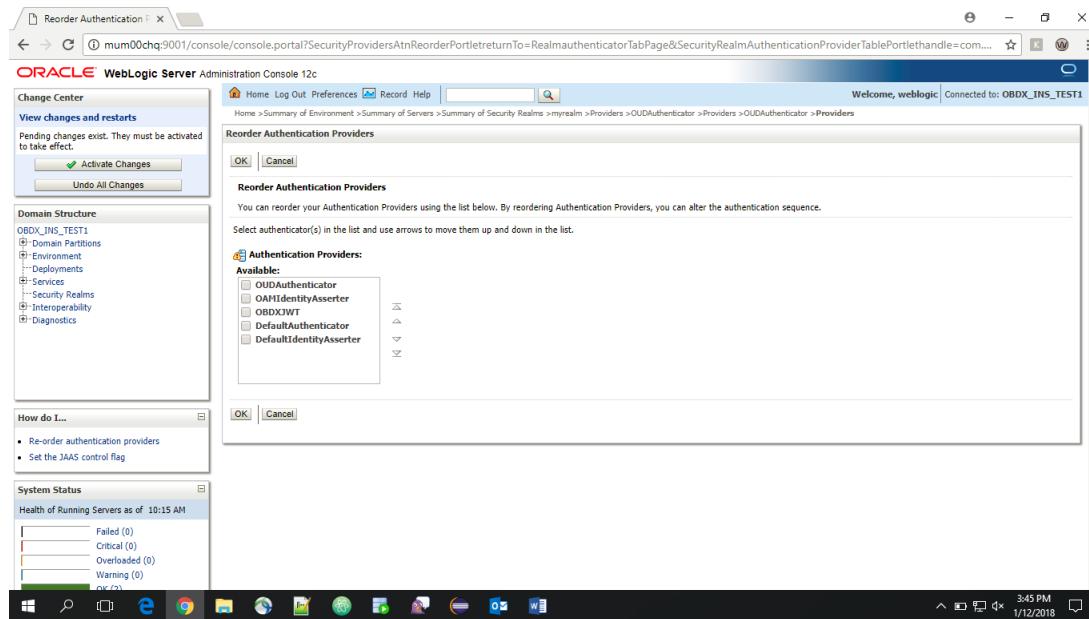


- Click on OK Button.

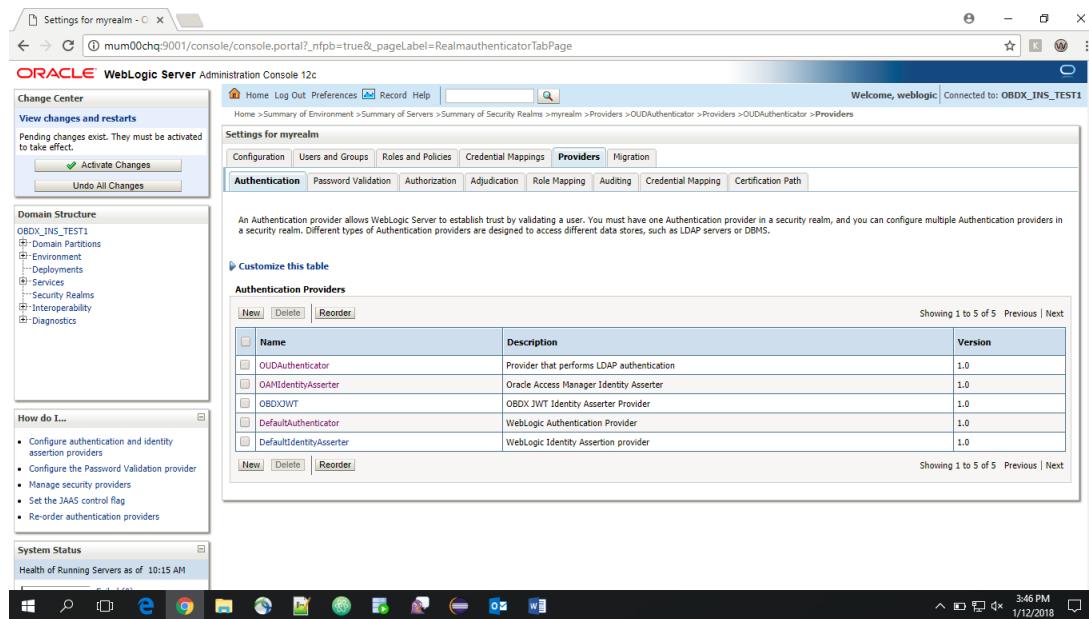
Name	Description	Version
OBDXJWT	OBDX JWT Identity Asserter Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAssertion	WebLogic Identity Assertion provider	1.0
OUDAuthenticator	Provider that performs LDAP authentication	1.0
OAMIdentityAssertion	Oracle Access Manager Identity Asserter	1.0

- Click on Reorder Button.

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



- Click on OK Button.



- Set the **OAuth URL for OBDXJWT**

This page allows you to configure additional attributes for this security provider.

OAuth URL:

SSLEnabled

Save

Sample OAuth URL: <http://<hostname>:<port>/oauth2/rest/token/info> (hostname and port should be replaced with OAM Server setup).

- Click on Activate Changes to apply the changes.

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

Activate Changes

Undo All Changes

Domain Structure

OBDX_INS_TEST1

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I...

- Configure authentication and identity assertion providers
- Configure the Password Validation provider
- Manage security providers
- Set the JAAS control flag
- Re-order authentication providers

System Status

Health of Running Servers as of 10:15 AM

Settings for myrealm

Providers

Authentication Providers

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

- 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"/>

```

        <propertySetRef ref="props.db.1" />
    </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>
    INSERT

```

- 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 OBDX Schema:

```

update DIGX_FW_CONFIG_ALL_B set prop_value =
'ipm1.0,ORACLEBI12.2.1.2,GENERIC1.0,OAM122130,OUD1.0' where prop_id = '01' and category_id
= 'extxfaceadapterconfig';

```

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.

The image contains two side-by-side screenshots of the Oracle WebLogic Administration Console. Both screenshots show the 'myrealm' security realm settings.

Top Screenshot (Users Tab):

- Left Panel:** Shows the 'Domain Structure' for 'myrealm' with nodes: OBDX, Domain Partitions, Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics.
- Right Panel:**
 - Header:** 'Settings for myrealm' with tabs: Configuration, **Users and Groups**, Roles and Policies, Credential Mappings, Providers, and Migration.
 - Section:** 'Users (Filtered - More Columns Exist)' with a table showing 10 users:

Name	Description	Provider
000800		OUD
000801		OUD
1207payday1@ora.com		OUD
1207payday2@ora.com		OUD
1207payday3@ora.com		OUD
1207swings1@ora.com		OUD
12jun.d1@ora.com		OUD
12jun.d2@ora.com		OUD
12jun.d3@ora.com		OUD
171040		OUD

Bottom Screenshot (Groups Tab):

- Left Panel:** Shows the 'Domain Structure' for 'myrealm' with nodes: OBDX_INS_TEST, Domain Partitions, Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics.
- Right Panel:**
 - Header:** 'Settings for myrealm' with tabs: Configuration, **Users and Groups**, Roles and Policies, Credential Mappings, Providers, and Migration.
 - Section:** 'Groups' with a table showing 10 groups:

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

[Home](#)

11. Multi Entity

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

- Add entity through OBDX Web application, using
 - User Manual Oracle Banking Digital Experience System Configuration User Manual
- In case of OBTFCM integration, following document should be referred.
- Oracle Banking Mid-Office Product Setup and Configuration Guide Running OBDX 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 OBDX software installation (or has ownership on Oracle Weblogic home directory)

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

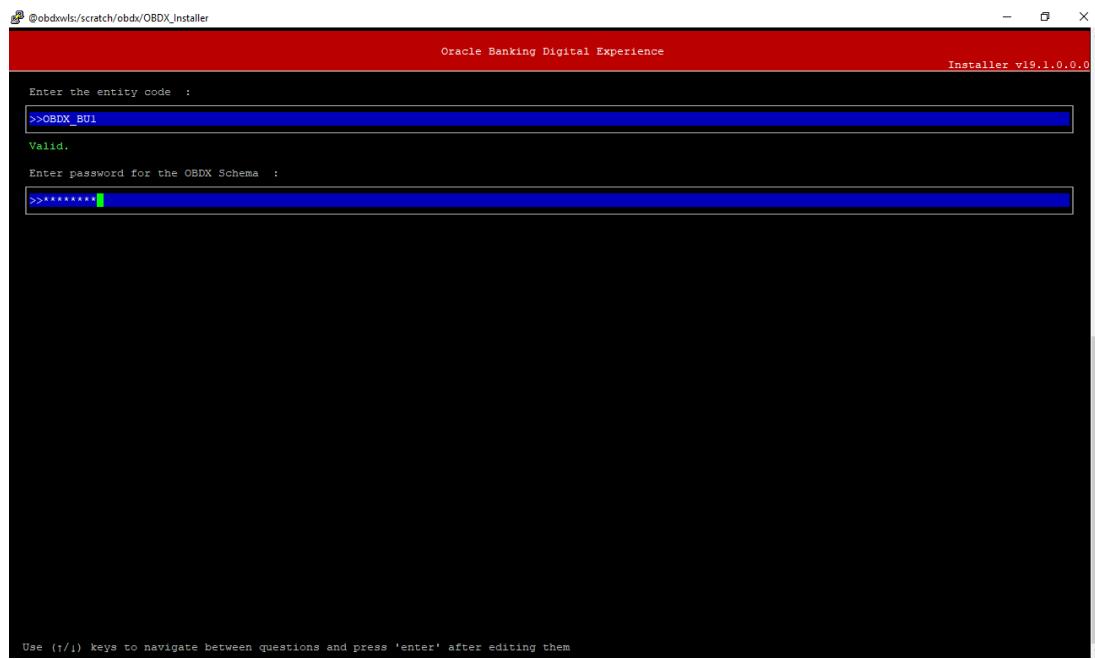
 - From your terminal navigate to <OBDX INSTALLER DIR>
 - Enter the following command

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
- OBDX 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:

>[redacted]) for all fields. A message at the bottom of the screen says 'Use (t/i) keys to navigate between questions and press 'enter' after editing them'." data-bbox="147 85 818 395"/>

```

@obdwls/scratch/obdv/OBDX_Installer
=====
Oracle Banking Digital Experience
Installer v19.1.0.0.0

Enter the OBPML43 DB hostname :
>>[redacted]

Enter the OBPML43 DB port :
>>[redacted]

Enter the OBPML43 SID :
>>[redacted]

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

Enter the username with 'sys' privileges :
>>[redacted]

Enter password for the user with sys privileges :
>>[redacted]

Enter existing weblogic admin password :
>>[redacted]

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




```

@obdwls/scratch/obdv/OBDX_Installer
=====
Oracle Banking Digital Experience
Installer v19.1.0.0.0

Enter the OBPML43 DB hostname :
>>mumaa012.in.oracle.com
Valid.

Enter the OBPML43 DB port :
>>1520
Valid.

Enter the OBPML43 SID :
>>obdxhst.in.oracle.com
Valid.

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

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

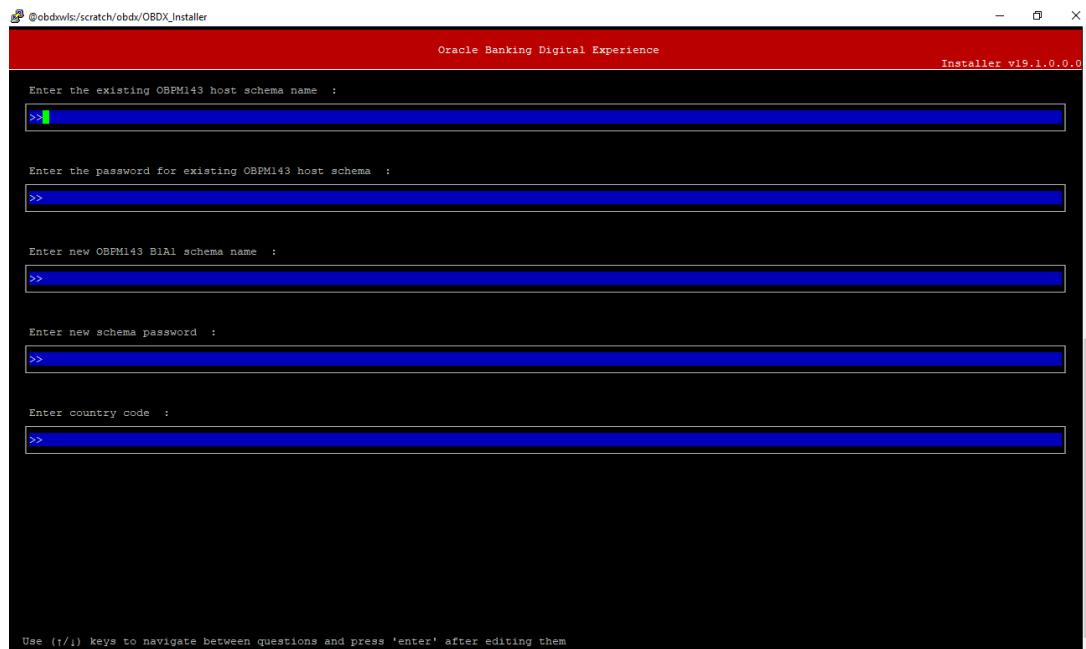
Enter password for the user with sys privileges :
>>******
Valid.

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

Use (t/i) 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 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.



```

@obdm0115/scratch/obds/v4/OBDS_18.2.0.0
[devops@obdm0115 ~]$ python runinstaller.py
Starting UBS Database Installation...
Creating Tablespace...
Tablespace OBDS1 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 ubs_object_scripts.sql started
Execution of ubs_object_scripts.sql completed
Execution of execute-needs.sql started
Execution of execute-needs.sql completed
SUCCESSFULLY installed UBS database
executed DIOX_TW_CONFIG_ALL_O.sql successfully

Starting Entity Configuration
Calling WLST
Initialising WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
Connecting to t3://obdm0115.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OBDS18.2.0.0".
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 Domain0Bean 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 OBDS_BI1_BI1

```

When the installation completes, the below message is displayed

```

@obdxwls:scratch/obdx/4/OBDX_183INS
Execution of ubs_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS database
Executed DIGX_FW_CONFIG_ALL_O.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 "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 OBEX_BUL_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
OBEX_BUL_BIAL 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 (OBDX with UBS)).

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

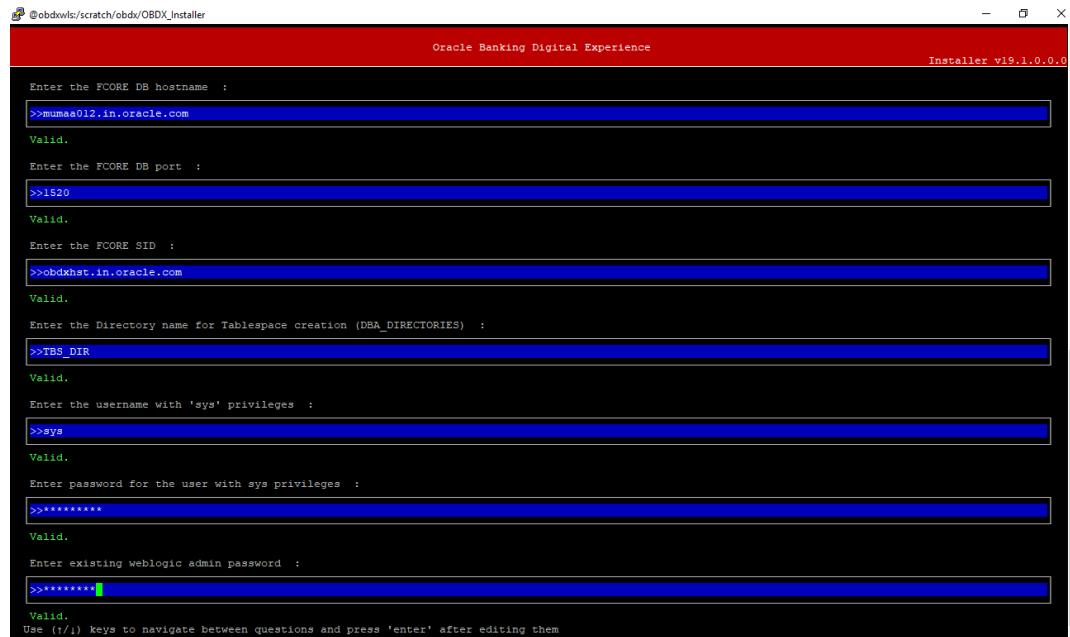
```

@obdxwls:scratch/obdx/OBDX_Installer
[devops@obdxwls OBDX_Installer]$ export Entity_Code=OBEX_BUL
[devops@obdxwls OBDX_Installer]$ export SCHEMA_PASS=welcome1
[devops@obdxwls OBDX_Installer]$ export FLAVOUR=OBDX
[devops@obdxwls OBDX_Installer]$ python runInstaller.py --silent --addEntity
Password validated for OBDX_183INS
Execution of DB script for OBDX_BUL started
Executed DIGX_FW_CONFIG_ALL_O.sql successfully
Execution completed.
[devops@obdxwls OBDX_Installer]$ 

```

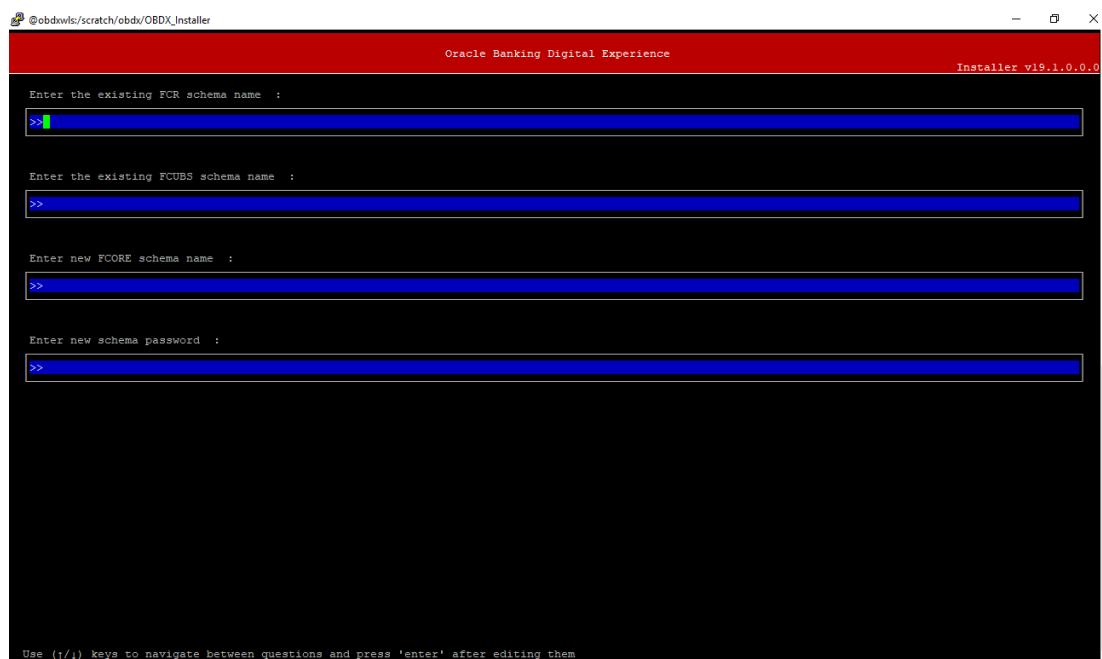
No additional steps/ configuration are required.

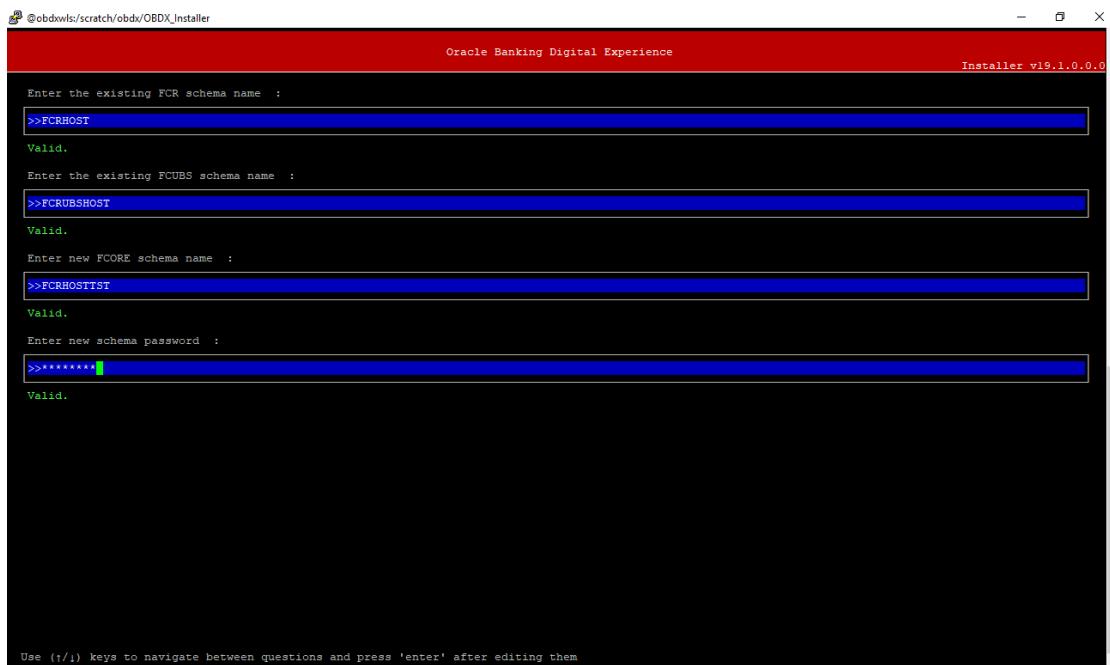
If an entity code belongs to Oracle FLEXCUBE Core Banking host following screen will appear:



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 below details:

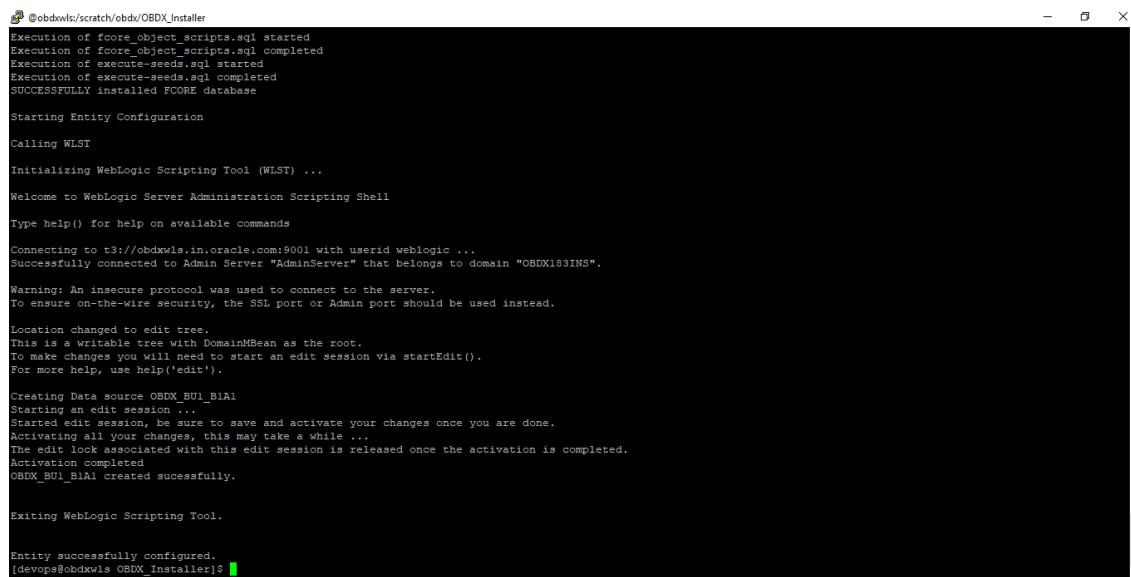
- EXISTING FCORE HOST schema name
- EXISTING FCORE FCUBS schema name
- Complete EHMS (HostInterface) schema name you want installer to create as new schema
- Password for New EHMS schema

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@ 08DX_Installer] $ python runInstaller.py --silent --addEntity
Password validated for 08DX_183IMS
Password validated for sys

Starting FCORE Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Roles Created
Creating Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of fcose_object_scripts.sql started
```



```
Execution of fcore_object_scripts.sql started
Execution of fcore_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed FCORE 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 "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_BUL_BIA1
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_BUL_BIA1 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 (OBDX with OBPM)).

12. Multi-entity installation using Silent Mode

This chapter describes how to run the OBDX 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 OBDX 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=hostanme.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 UBS (14.3.0.0 and.14.2.0.0.0 release) OBPM (14.3.0.0 and.14.2.0.0.0 release)	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU7
	SCHEMA_PASS	Password for existing OBDX schema	export SCHEMA_PASS=devops#obdx182
	ENTITY_EHMS_DATABASE_HOSTNAME	Hostname of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_HOSTNAME=mumaa012.in.oracle.com
	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	export ENTITY_EHMS_DATABASE_SID=obd

		Service Name	xdb.in.oracle.com
	ENTITY_EHMS_DBA_DIRECTORY_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_DBA_DIRECTORY_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=OBDXEHMS
	ENTITY_EHMS_SCHEMA_PASS	Password for new EHMS schema on EHMS HOST database	export ENTITY_EHMS_SCHEMA_PASS=devops#ehms
	ENTITY_EHMS_HOST_SCHEMA_NAME	EXISTING EHMS Host schema name	export ENTITY_EHMS_HOST_SCHEMA_NAME=EHMHOST
	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	Country Code for	export ENTITY_EHMS_CCY=GB

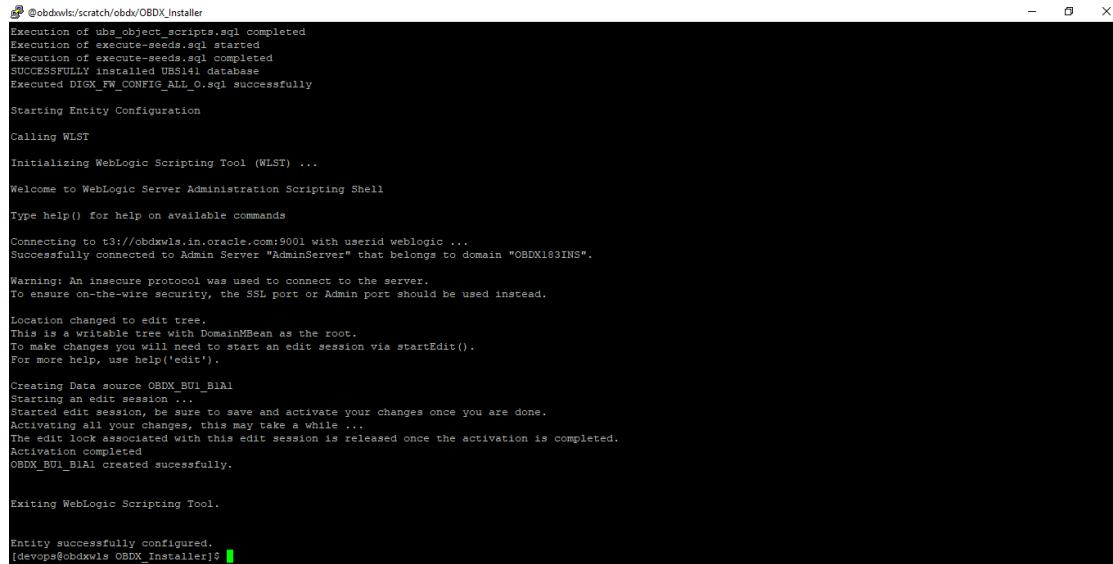
	**This parameter is only required for UBS & OBPM Host	new or additional entity home branch	
	ENTITY_EHMS_FCORE_FCUBS_SCHEMA_NAME **This parameter is only required for FCORE	FCORE-FCUBS HOST schema name	export ENTITY_EHMS_FCORE_FCUBS_SCHEMA_NAME=FCRUBSHOST
Environment variables to set for flavor: OBDX (Third-party HOST)	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU1
	SCHEMA_PASS	Password for existing OBDX 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_DB_A_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.



```

@obdxwls/scratch/obdx/OBDX_Installer
Execution of ubs_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_O.sql successfully

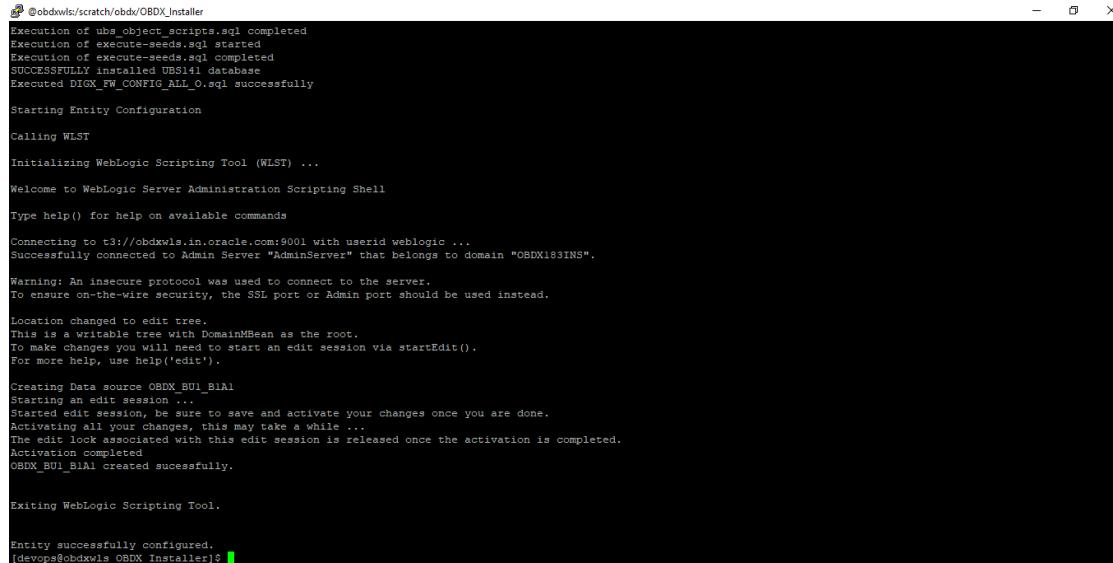
Starting Entity Configuration
Calling WLST
Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
Connecting to t3://obdxwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "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.
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_BIA1 created sucessfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.
[devops@obdxwls OBDX_Installer]$ 
```

When the installation completes, the below message is displayed



```

@obdxwls/scratch/obdx/OBDX_Installer
Execution of ubs_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_O.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 "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.
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_BIA1 created sucessfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.
[devops@obdxwls OBDX_Installer]$ 
```

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 (OBDX with UBS))
- OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBDX 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]@OSDX_Installer:~$ python runInstaller.py --silent --addEntity
Password validated for OSDX_183INS
Execution of DB script for OSDX_SUi started
Executed DIOX_FW_CONFIG_ALL_O.sql successfully
Execution completed.
```

[Home](#)

13. OBDX Product Security

Refer below document for OBDX product security configuration

Oracle Banking Digital Experience Security Guide

[Home](#)

14. OBDX 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 OBDX schema

```
alter user <OBDX_SCHEMA> quota unlimited on <OBDX_AUDIT_INDEX_TABLESPACE>;
```

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

15. JPA and OBDX 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 OBDX product)
 - 2 or more Weblogic cluster's
- Ensure these (persistence.xml) changes are available to all Managed server by maintaining appropriate classpath

16. Troubleshoot Overview

This section describes how to troubleshoot OBDX 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:



The screenshot shows a terminal window with a red header bar. The main area is black with white text. It displays the following message:

```
Oracle Banking Digital Experience

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

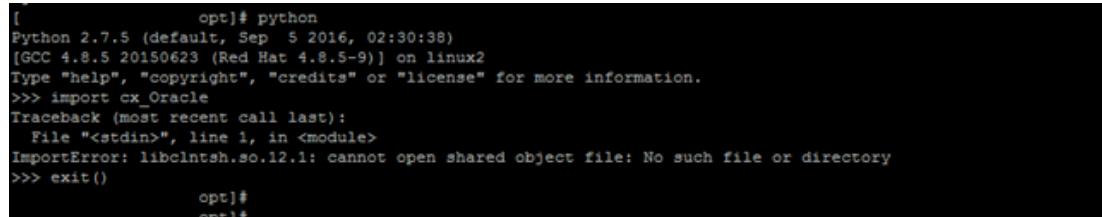
Try one of the following:

- 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:



The screenshot shows a terminal window with a black background and white text. It displays the following error message:

```
[ 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]#
          opt]#
```

Execute the below command:

```
export LD_LIBRARY_PATH=/usr/lib/oracle/12.2/client64/lib:$LD_LIBRARY_PATH
```

```
python
```

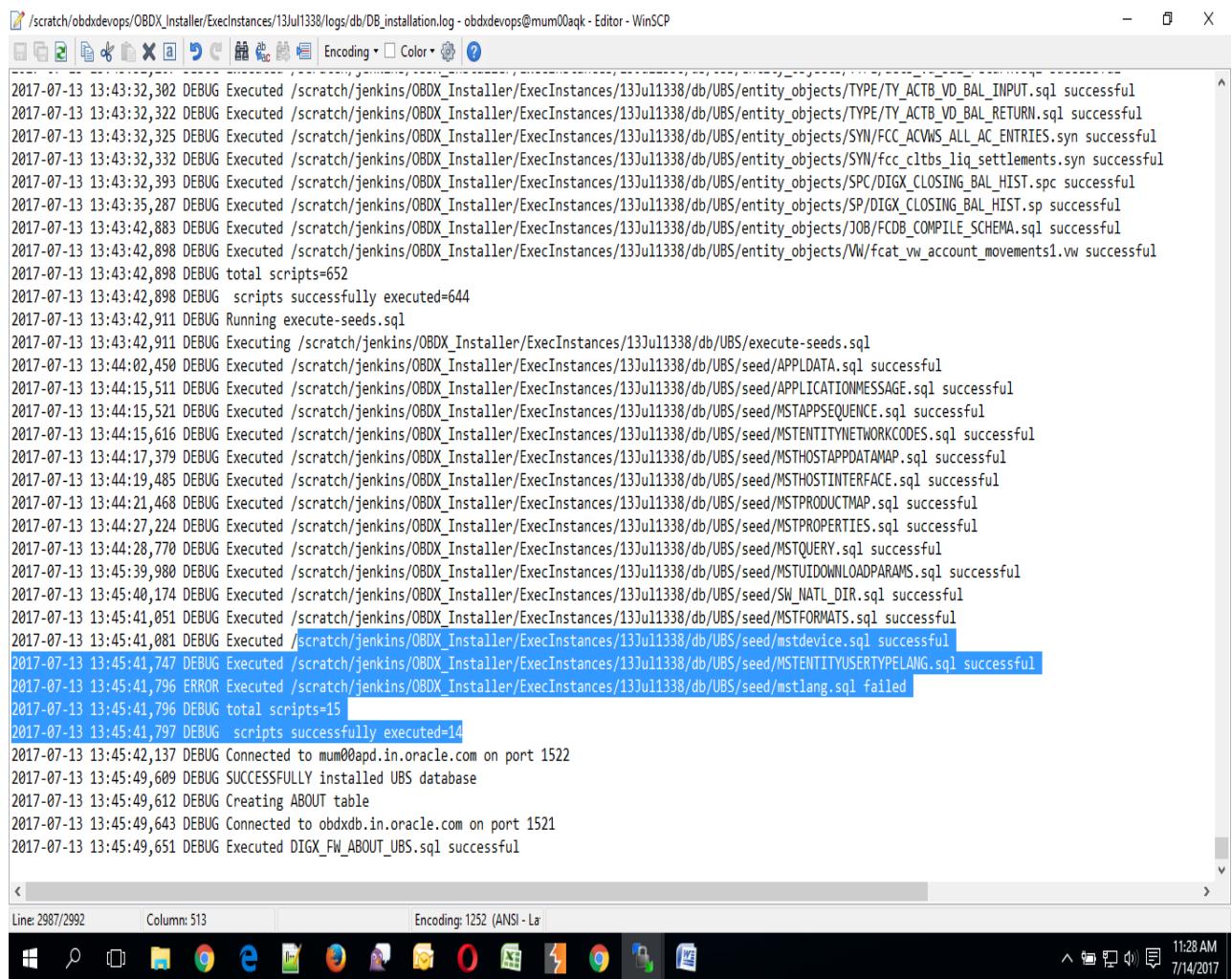
```
import cx_Oracle
cx_Oracle.__version__
```

```
[ opt]# export LD_LIBRARY_PATH=/usr/lib/oracle/12.2/client64/lib:$LD_LIBRARY_PATH
[ 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
>>> cx_Oracle.__version__
'5.2.1'
>>> 
```

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 13:43:32,302 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/TYPE/TY_ACTB_VD_BAL_INPUT.sql successful
2017-07-13 13:43:32,322 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/TYPE/TY_ACTB_VD_BAL_RETURN.sql successful
2017-07-13 13:43:32,325 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/SYN/FCC_ACWS_ALL_AC_ENTRIES.syn successful
2017-07-13 13:43:32,332 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/SYN/fcc_clbs_liq_settlements.syn successful
2017-07-13 13:43:32,393 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/SPC/DIGX_CLOSING_BAL_HIST.spc successful
2017-07-13 13:43:35,287 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/SP/DIGX_CLOSING_BAL_HIST.sp successful
2017-07-13 13:43:42,883 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/JOB/FCDB_COMPILE_SCHEMA.sql successful
2017-07-13 13:43:42,898 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/VW/fcat_vw_account_movements1.vw successful
2017-07-13 13:43:42,898 DEBUG total scripts=652
2017-07-13 13:43:42,898 DEBUG scripts successfully executed=644
2017-07-13 13:43:42,911 DEBUG Running execute-seeds.sql
2017-07-13 13:43:42,911 DEBUG Executing /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/execute-seeds.sql
2017-07-13 13:44:02,450 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/APPLDATA.sql successful
2017-07-13 13:44:15,511 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/APPLICATIONMESSAGE.sql successful
2017-07-13 13:44:15,521 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTAPPSEQUENCE.sql successful
2017-07-13 13:44:15,616 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTENTITYNETWORKCODES.sql successful
2017-07-13 13:44:17,379 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTHOSTAPPDATAMAP.sql successful
2017-07-13 13:44:19,485 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTHOSTINTERFACE.sql successful
2017-07-13 13:44:21,468 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTPRODUCTMAP.sql successful
2017-07-13 13:44:27,224 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTPROPERTIES.sql successful
2017-07-13 13:44:28,770 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTQUERY.sql successful
2017-07-13 13:45:39,988 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTUDOWNLOADPARAMS.sql successful
2017-07-13 13:45:40,174 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/SW_NATL_DIR.sql successful
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/MSTENTITYUSERTYPEPELANG.sql successful
2017-07-13 13:45:41,796 ERROR Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/mstlang.sql failed
2017-07-13 13:45:41,796 DEBUG total scripts=15
2017-07-13 13:45:41,797 DEBUG scripts successfully executed=14
2017-07-13 13:45:42,137 DEBUG Connected to mum00apd.in.oracle.com on port 1522
2017-07-13 13:45:49,609 DEBUG SUCCESSFULLY installed UBS database
2017-07-13 13:45:49,612 DEBUG Creating ABOUT table
2017-07-13 13:45:49,643 DEBUG Connected to obdxdbs.in.oracle.com on port 1521
2017-07-13 13:45:49,651 DEBUG Executed DIGX_FW_ABOUT_UBS.sql successful
```

Check the detailed log of the failed SQL file at <OBDX 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
Creating STB Schema ...
Running RCU
STB Schema Creation Successful.
See logfile ./app/obdx_stb_rcu_1600

Calling WLST
creating domain named OBDX_INS_DEV6 .
OBDX_INS_DEV6 created .
```

Try one of the following:

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

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

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

Fix the problem by following below steps:

- Login to OBDX installer server
- Browse to <OBDX 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%u.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%u.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,<OBDX Schema name>,<OBDX Schema password>,jdbc:oracle:thin:@<OBDX
DB hostname or IP>:<OBDX DB listener port>/<OBDX 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,OBDX_THP181,Welcome#1,jdbc:oracle:thin:@10.44.169.255:1521/OBDX"
```

- 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,<OBDX Schema
name>,<OBDX Schema password>,jdbc:oracle:thin:@<OBDX DB hostname or IP>:<OBDX DB listener
port>/<OBDX 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,OBDX_THP181,Welcome#1,jdbc:oracle:thin:@10.44.169.255:1521/OBDX"
```

- 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,<OBDX Schema name>,<OBDX Schema  
password>,jdbc:oracle:thin:@<OBDX DB hostname or IP>:<OBDX DB listener port>/<OBDX 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,OBDX_THP181,Welcome#1,jdbc:oracle:thin:@10.44.169.255:1521/OBDX"
```

- Post successfully execution, restart Managed server.

17. Wallet Configuration

To include wallet link to mobile landing following changes are to be done in file at `./channel/components/home/mobile-landing/mobile-landing.js`:

1. Register wallet component

```
Params.baseModel.registerComponent("wallet-signup", "signup");
```

2. Add wallet component in quick-links

```
self.quickLinks.push({
  txt: self.nls.quickLinks.labels.wallet,
  icon: "wallet/wallet-money.svg",
  link: "wallet"
});
```

3. To load component on click add following code.

```
if (data.link === "wallet") {
  Params.dashboard.loadComponent("wallet-signup", {});
}
```

To include wallet widget in browser landing page following changes are to be done:

1. In file at `./channel/components/widgets/pre-login/product-home/product-home.html` add entry of wallet component as follows:

```
<wallet params="baseModel : $baseModel, rootModel : $data, dashboard: $dashboard"></wallet>
```

2. In file at `./channel/components/widgets/pre-login/product-home/product-home.js` register the component.

```
Params.baseModel.registerComponent("wallet", "home");
```

3. Add wallet component in `UIAuthorization.json` of widgets at path `./channel/components/widgets/META-INF/UIAuthorization.json`.

In entry of `wigdetName: Product Home`, add `#wallet#product-header-text` to `requiredUI`

Dashboard changes to include wallet account summary in Net Worth Graph make changes at path

`..\channel\components\widgets\dashboard\net-worth-graph\net-worth-graph.js`

Push value in the array `self.pieSeriesValueForCredit` as mentioned.

```
{
  name: self.resource.labels.wallet,
  items: [summary.WalletAmount],
  color: "#0000FF"
}
```

[Home](#)