

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](#)

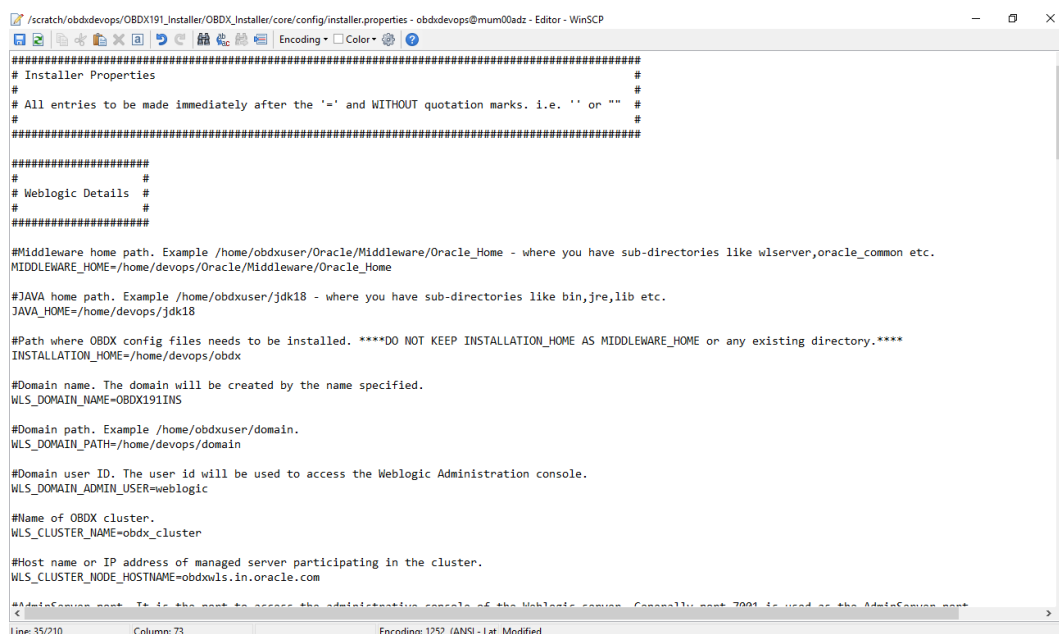
4. Installation

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)



```

#####
# 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 administrative console of the Weblogic server. Generally port 7001 is used as the AdminServer port

```

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	obdxdb.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_DBA_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_DBA_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) HostInterfaceschema 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	obdxehms.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 wlservers,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

```

Oracle Banking Digital Experience
Installer v19.1.0.0.0

Please select the installation type from the
options below :

OBDX Installation
New Entity Creation

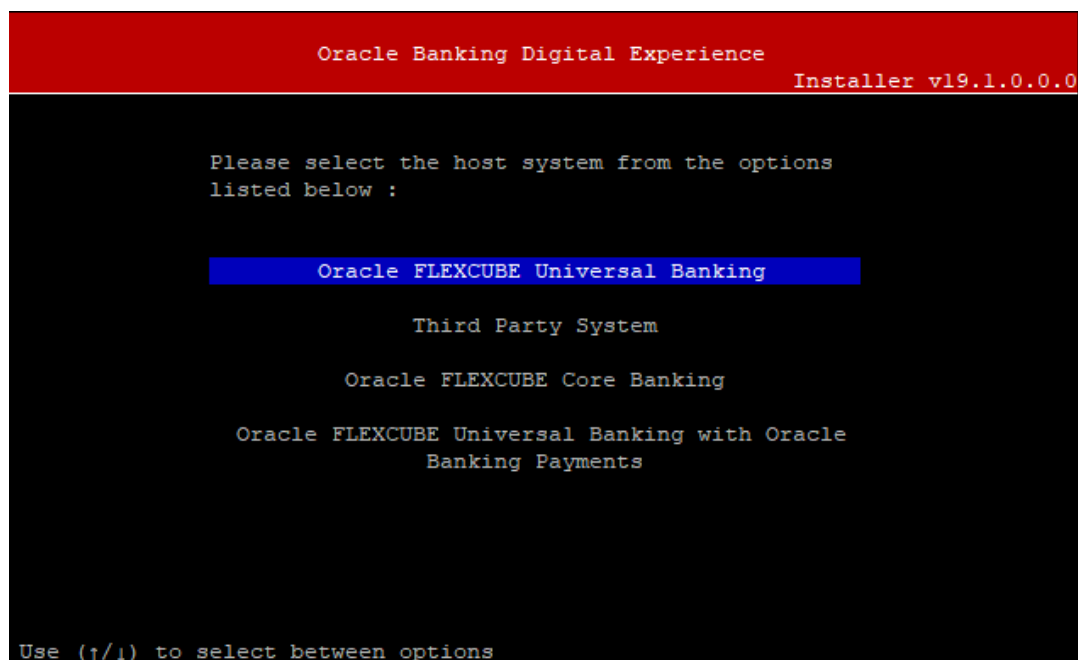
Use (↑/↓) to select between options

```

- 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.

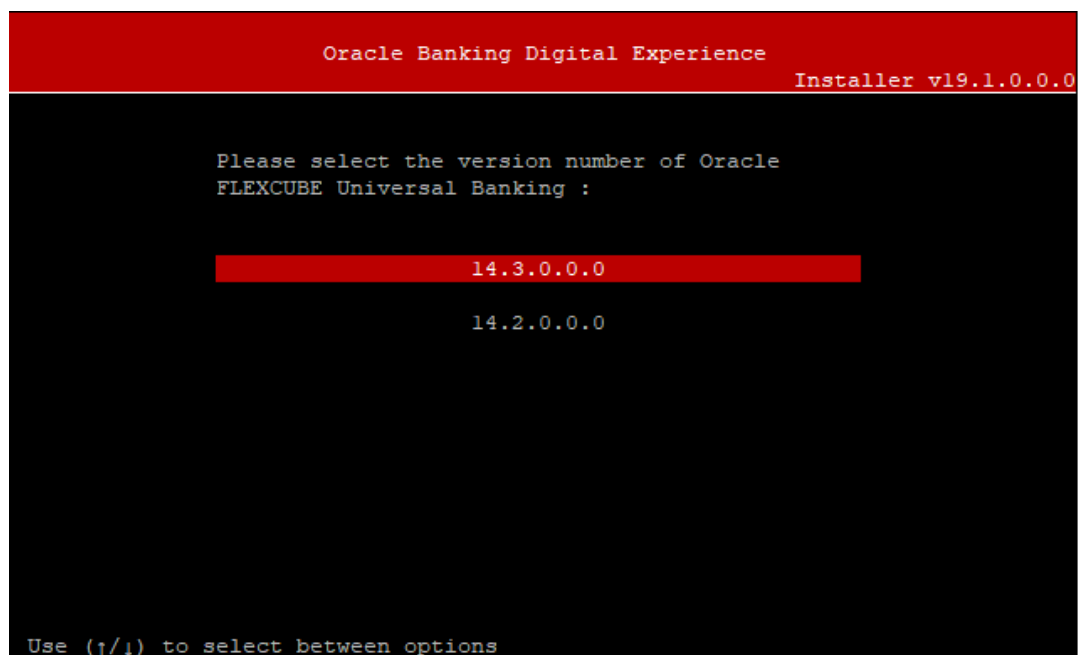
Post selection of installation type.

Select the appropriate host system for Installation

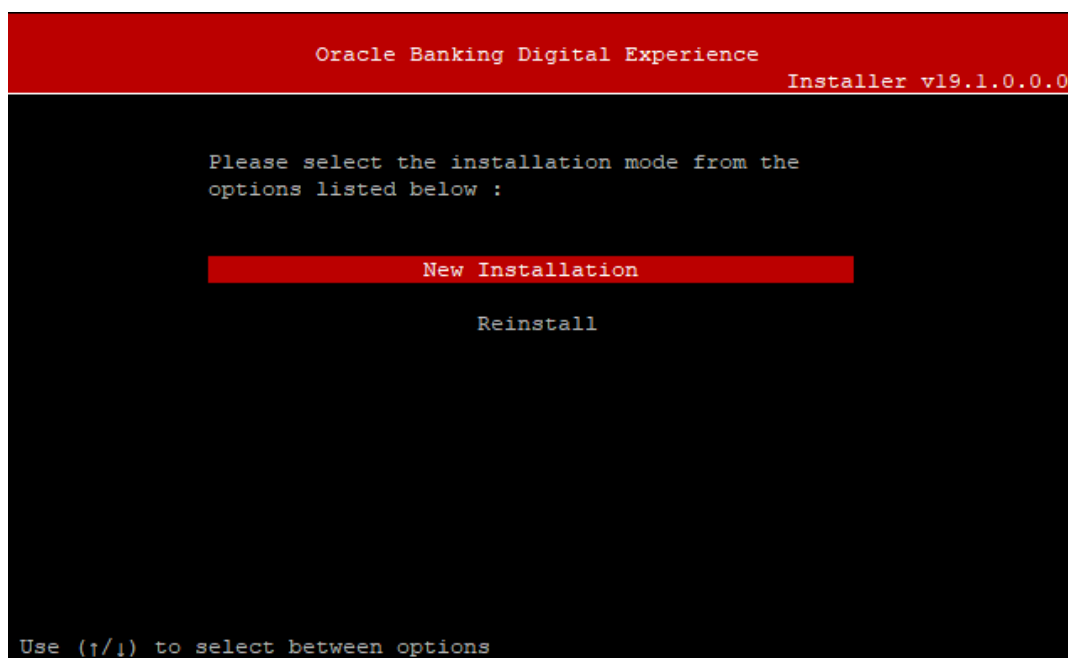


Oracle FLEXCUBE Universal Banking (OBDX with UBS)

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

The screenshot shows the Oracle Banking Digital Experience Installer terminal window. The title bar is red and contains the text "Oracle Banking Digital Experience" and "Installer v19.1.0.0.0". The terminal background is black with white text. The prompts and responses are as follows:

```

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' :
>>*****
  
```

At the bottom of the terminal, there is a note: "Use (/;) 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 the Oracle Banking Digital Experience Installer v19.1.0.0.0 terminal window. It displays a series of password prompts and validation messages:

```

>>>>>>>>
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 the password for the user with sys privileges of FCR database 'sys' :
>>>>>>>>
Valid.
Enter password for the FCORE schema 'B1A1_FCORE' (new) :
>>>>>>>>
Valid.
Enter password for the Admin User 'superadmin' :
>>>>>>>>
  
```

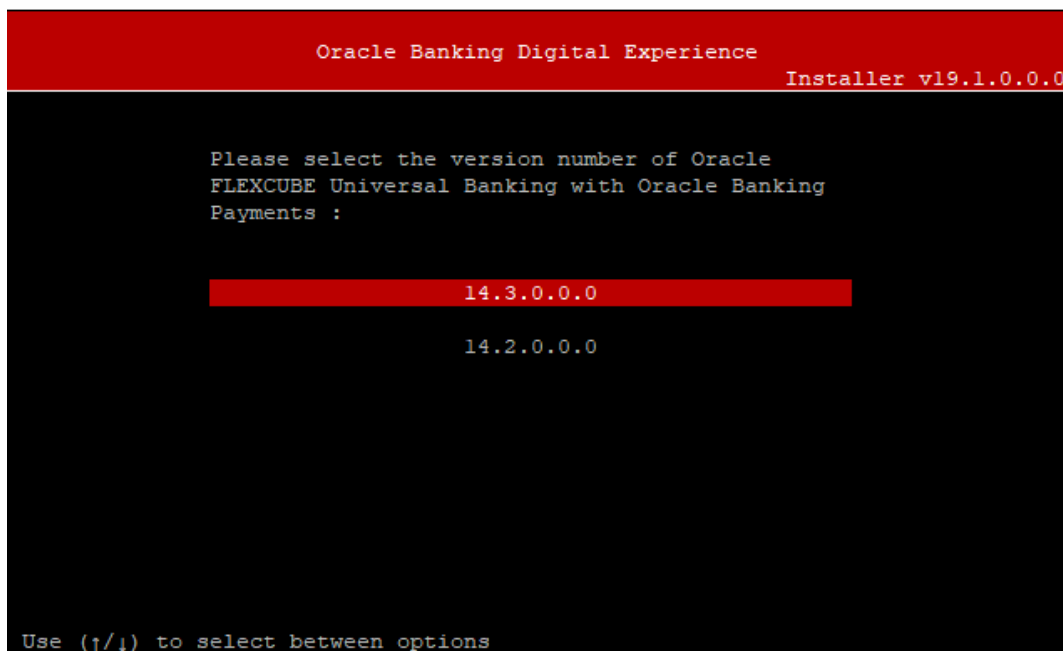
At the bottom, it says: "Use (/) keys to navigate between questions and press 'enter' after editing them"

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



- 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) [1] python runInstaller.py

>>> STARTING ODM PRODUCT INSTALLATION <<<<

Starting ODM Database Installation with UBI4I FLAVOR
Tablespace with name ODM_103INS and ODM_AUDIT_103INS 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_test_script.sql started
Execution of clip_master_generic_test_script.sql completed
SUCCESSFULLY installed ODM database

Starting UBI4I Database Installation...
Table space with name TB1_104I_103REL exists
Dropping User
Objects dropped
Schema dropped
Role dropped
Creating User...
User Created
Creating Role...
Roles Created
Executing Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of uba_object_scripts.sql started
Execution of uba_object_scripts.sql completed
```

When the installation completes, the below message is displayed

```
@bdxwls/scratch/obdx/v4/OBDX_18.3.0.0
<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 7:14:20 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 7:14:20 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/obdx/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, ExtxfaceSimulatorMDB [archive: /scratch/obdx/v4/OBDX_18.3.0.0.0/installables/app/components/thp/deploy/ExtxfaceSimulatorMDB.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=welcome1
OBDX_Installer]$ export SCHEMA_PASS=welcome1
OBDX_Installer]$ export STBPassword=welcome1
OBDX_Installer]$ export DomainPassword=welcome1
OBDX_Installer]$ export EHMS_DATABASE_SYS_PASS=devopshst
OBDX_Installer]$ export EHMS_HOST_SCHEMA_NAME_PASS=FC140UBS
OBDX_Installer]$ export EHMS_SCHEMA_PASS=welcome1
```


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	Flavour for installation UBS for Oracle FLEXCUBE Universal Banking 14.2.0.0.0 (OBDX with UBS) UBS143 for Oracle FLEXCUBE Universal Banking .14.3.0.0.0 (OBDX with UBS) OBPM for Oracle FLEXCUBE Universal Banking with Oracle Banking Payments 14.2.0.0.0 (OBDX with OBPM) OBPM143 for Oracle FLEXCUBE Universal Banking with Oracle Banking Payments 14.3.0.0.0 (OBDX with OBPM) FCORE for Oracle FLEXCUBE Core Banking 11.7.0.0.0 (OBDX with FCORE)	export FLAVOUR=UBS or export FLAVOUR=UBS143 or export FLAVOUR=OBPM or export FLAVOUR=OBPM143 or export FLAVOUR=FCORE
	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	export MODE=New or export MODE=Clean

		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=obdx ehmssys
	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=obdx182ehm s
	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]$ python runInstaller.py --silent --base
```

Installation Status

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

```
[devops@obdxwls OBX_Installer]$ python runInstaller.py --silent --base
Password validated for sys
Password validated for sys
Password validated for OBPM141

>>> STARTING OBX PRODUCT INSTALLATION <<<<

Starting OBX Database Installation with OBPM141 FLAVOR
Tablespace with name OBX_183INS and OBX_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_test_script.sql started
Execution of clip_master_generic_test_script.sql completed
SUCCESSFULLY installed OBX database

Starting OBPM141 Database Installation...
Table space with name TBS_BIAl_OBPM141_183INS exists
Dropping User
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)
Dec 16, 2018 7:19:49 AM UTC <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.thirdparty.app.domain [archive: /scratch/obdx
/OBX_Installer/installables/app/components/obdx/deploy/obdx.thirdparty.app.domain.ear], to 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/OBX_Ins
taller/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/OBX_Ins
taller/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/OBX_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.ofss.digx.app.connector [archive: /scratch/obdx
/OBX_Installer/installables/app/components/obdx/deploy/com.ofss.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/OBX_Ins
taller/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/OBX_Instal
ler/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.oauth [archive: /scratch/obdx/OBX_Instal
ler/installables/app/components/obdx/deploy/obdx.app.oauth.ear], to obdx_cluster .>
Dec 16, 2018 7:20:16 AM UTC <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.app.domain [archive: /scratch/obdx/OBX_Ins
taller/installables/app/cz/obdx.cz.app.domain.ear], to obdx_cluster AdminServer .>
Dec 16, 2018 7:20:16 AM UTC <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.extsystem.domain [archive: /scratch/obdx/O
BX_Installer/installables/app/cz/obdx.cz.extsystem.domain.ear], to AdminServer obdx_cluster .>
Dec 16, 2018 7:20:16 AM UTC <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.cz.thirdparty.app.domain [archive: /scratch/o
bdx/OBX_Installer/installables/app/cz/obdx.cz.thirdparty.app.domain.ear], to AdminServer obdx_cluster .>
Dec 16, 2018 7:20:16 AM UTC <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, obdx.app.soap [archive: /scratch/obdx/OBX_Instal
ler/installables/app/components/obdx/deploy/obdx.app.soap.ear], to obdx_cluster .>
Dec 16, 2018 7:20:17 AM UTC <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, ExtxfaceSimulatorMDS [archive: /scratch/obdx/OBX_
Installer/installables/app/components/obdx/deploy/ExtxfaceSimulatorMDS.ear], to obdx_cluster .>
Applications deployed successfully
Starting AdminServer
AdminServer started
Successfully created and configured OBX183INS domain
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...

>>> OBX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<

[devops@obdxwls OBX_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 <hr/> 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.

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	√	√
		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	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)	√	√

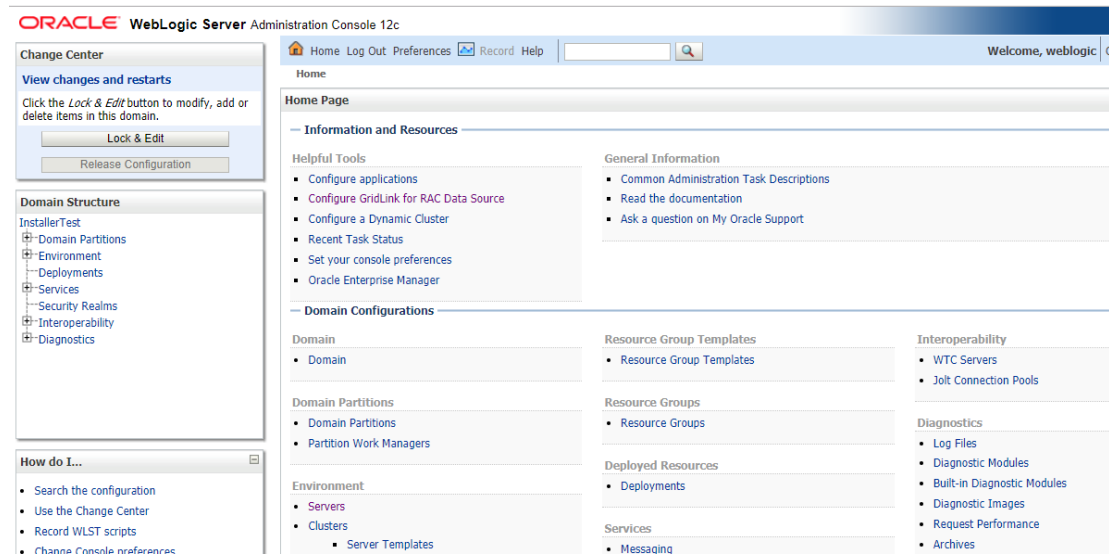
Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Execute OBPM HOST specific scripts	√	√
		Compile Schema	√	√
		Policy Seeding	√	√
	EHMS DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile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

[Home](#)

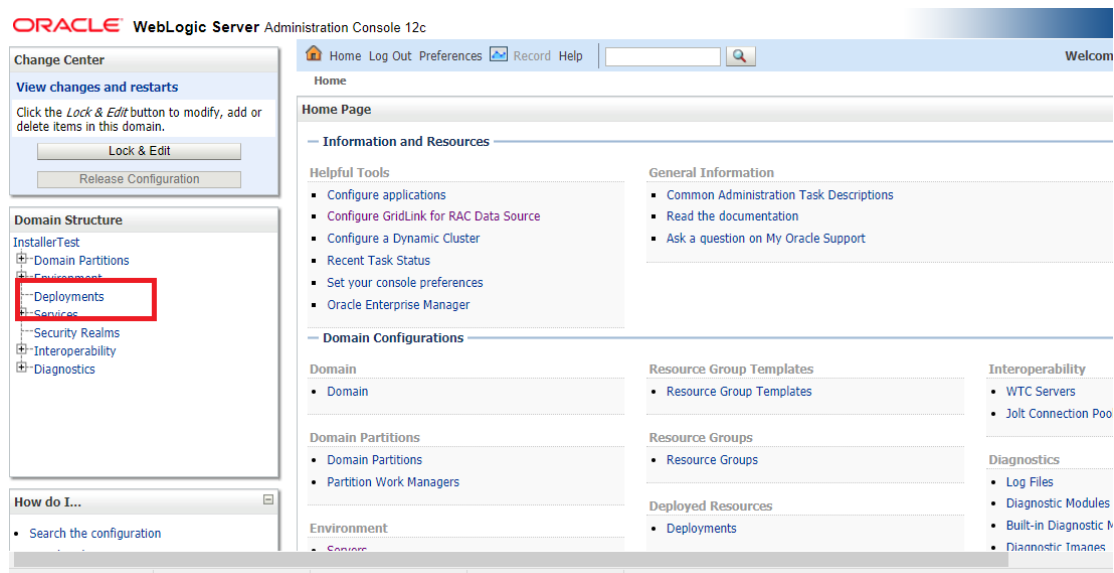
8. Post Installation Steps

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

Login Weblogic Admin console.



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



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

<input type="checkbox"/>	oracle.bi.bips(11.1.1.0.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.dconfig-infra(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.jrf.system.filter	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.jsp.next(12.2.1,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.pwdgen(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.sdp.client(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.sdp.messaging(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.webcenter.composer(2.0,12.2.1)	Active		Library	AdminServer	Global		300
<input type="checkbox"/>	oracle.webcenter.skin(2.0,12.2.1)	Active		Library	AdminServer	Global		300
<input type="checkbox"/>	oracle.wsm.console.core.view(1.0,12.2.1.3)	Active		Library	AdminServer	Global		311
<input type="checkbox"/>	oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.wsm.seedpolicies(2.0,12.2.1.3)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oral18n-adf(11,11.1.1.1.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	owasp.esapi(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	state-management-provider-memory-rar	Active	OK	Resource Adapter	AdminServer	Global		100
<input type="checkbox"/>	UDX(11,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	wsm-pm	New		Enterprise Application	obdx_cluster	Global		5

Click on **Lock & Edit**

The screenshot shows the Oracle WebLogic Server Administration Console. The browser address bar indicates the URL: `mum00bzt:5001/console/console.portal?_nfpb=true&_pageLabel=LibraryOverviewPage&LibraryOverviewPortletHandle=com.bea.console.handles.AppDeploymentHandle%28`. The page title is "ORACLE WebLogic Server Administration Console 12c".

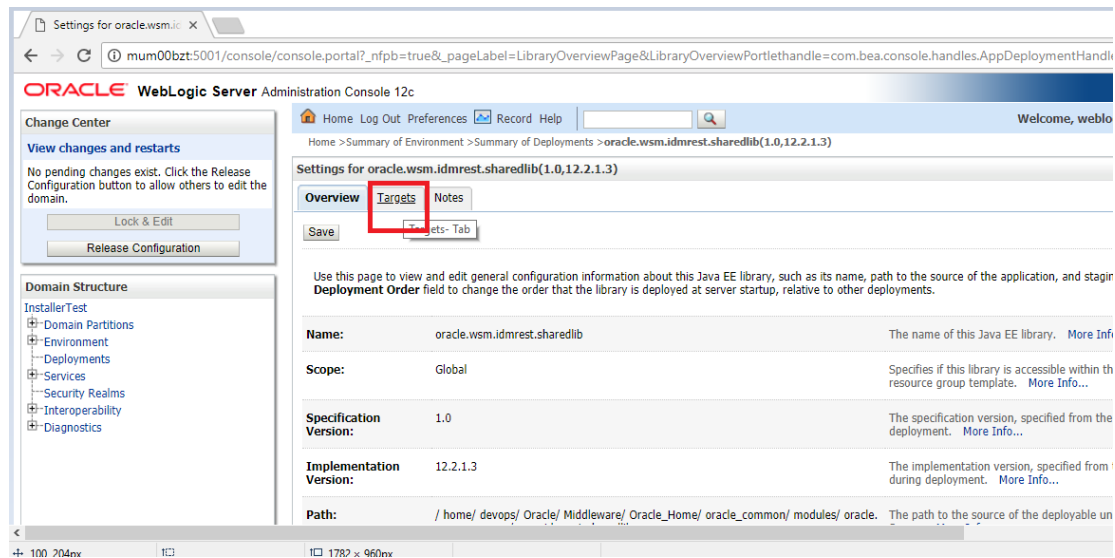
On the left, the "Change Center" section is visible, with a "Lock & Edit" button highlighted by a red rectangle. Below it, the "Domain Structure" tree shows the hierarchy: `InstallerTest > Domain Partitions > Environment > Deployments > Services > Security Realms > Interoperability > Diagnostics`.

The main content area displays the "Settings for oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)". It includes tabs for "Overview", "Targets", and "Notes". A message states: "Click the **Lock & Edit** button in the Change Center to modify the settings on this page." Below this is a "Save" button.

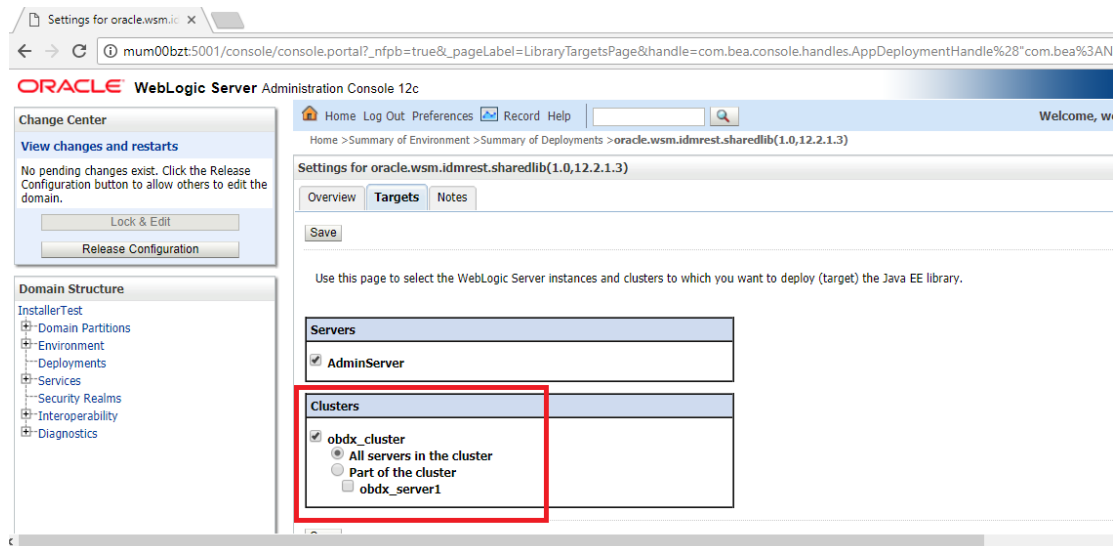
The configuration details are as follows:

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

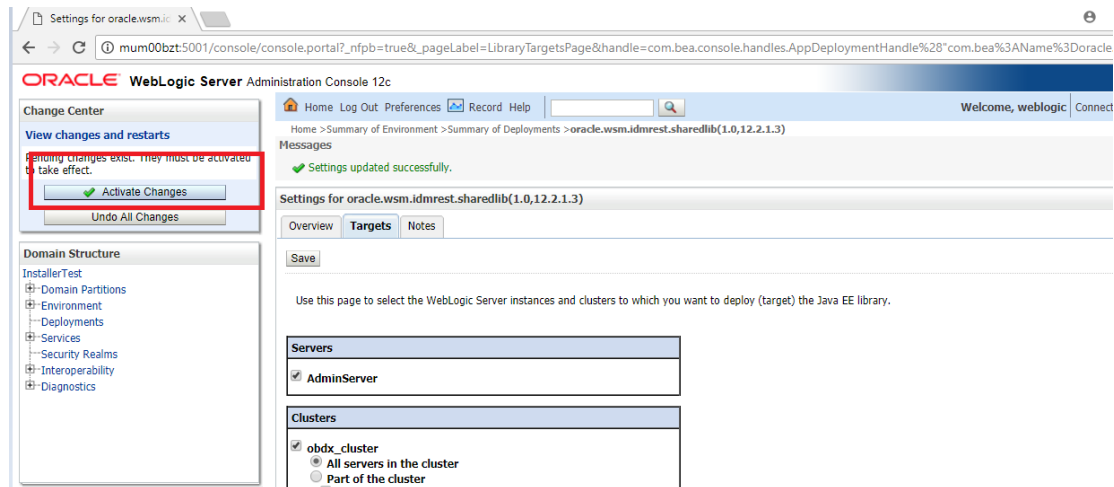
Click on **Targets** Tab



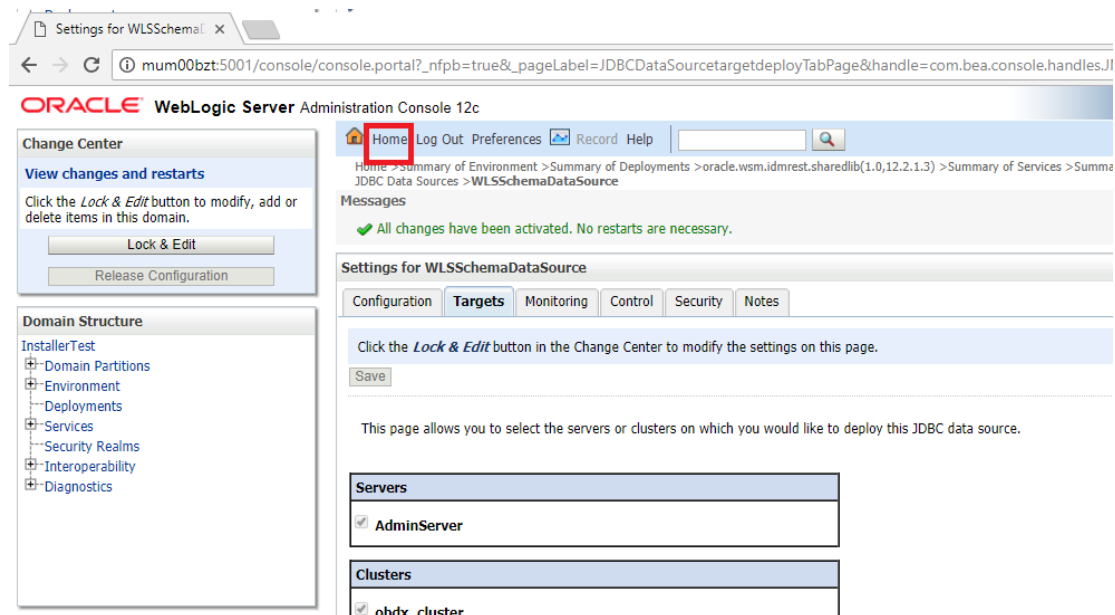
In the Servers box, select **Cluster** if it is not already selected and click **Save**.



Click on **Activate Changes**.



Click on **Home Tab**



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

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

Overview **Targets** Notes

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

Save

Use this page to select the WebLogic Server instances and clusters to which you want to deploy (target) the Java EE library.

Servers

- ☒ AdminServer

Clusters

- ☒ obdx_cluster

Click on **Data Sources**

Summary of Services - In Progress

mum00bzt:5001/console/console.portal?_nfpb=true&_pageLabel=ServicesSummaryPage

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic

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

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 load balancing and failover between data sources, which can be connected to different backend resources.
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 file-based 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 the local WebLogic Server.
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 entities.
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 improves the performance of XML parsing.

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

Data Sources (Filtered - More Columns Exist)

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

Showing 1 to 9 of 9 [Previous](#)

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

Showing 1 to 9 of 9 [Previous](#)

System Status

Health of Running Servers as of 7:08 AM

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

Click on **Targets** Tab

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences [Record](#) [Help](#)

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

Settings for WLSSchemaDataSource

Configuration **Targets** Monitoring Control Security Notes

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

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

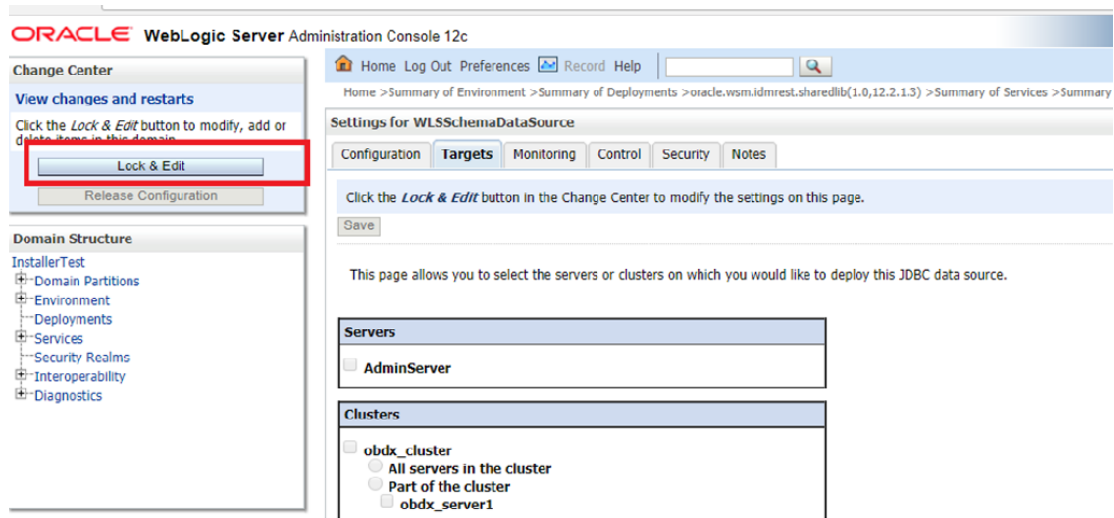
[Save](#)

Applications get a database connection from a data source by looking up the data source on the Java Naming and Directory Interface (JNDI) data source provides the connection to the application from its pool of database connections.

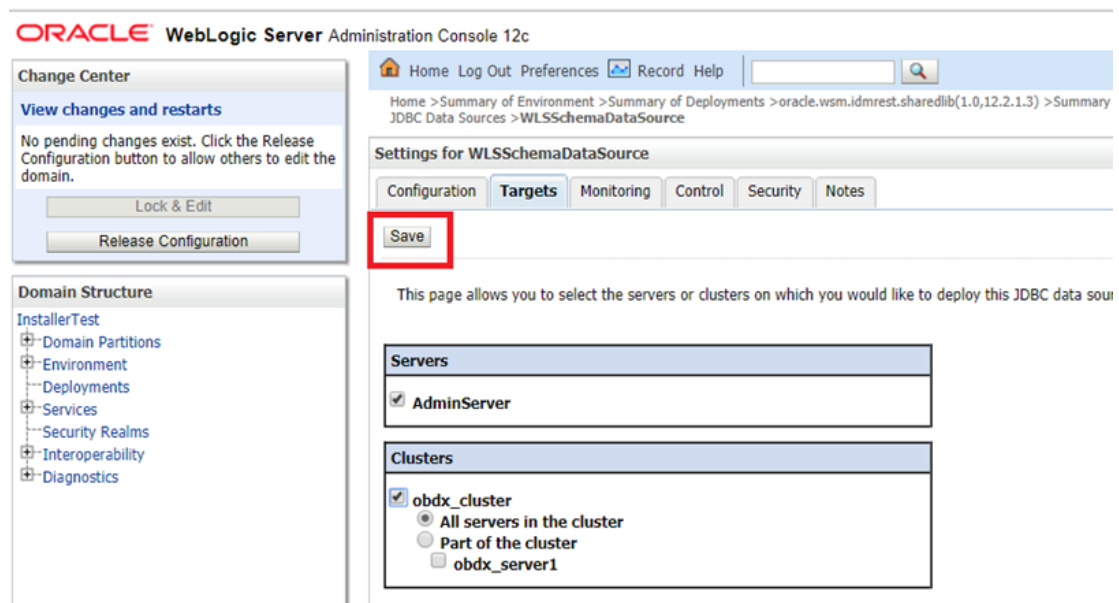
This page enables you to define general configuration options for this JDBC data source.

Name:	WLSSchemaDataSource	A unique name that identifies the data source. More Info...
Datasource Type:	GENERIC	The data source type. View the documentation for the data source type.
Scope:	Global	The scope in which the data source is available.

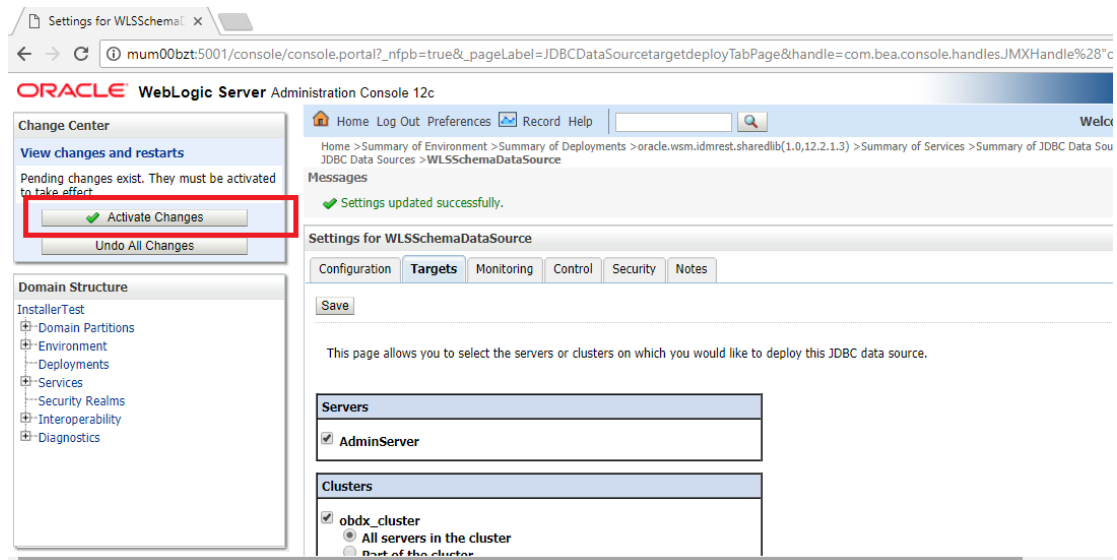
Click on **Lock & Edit**



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

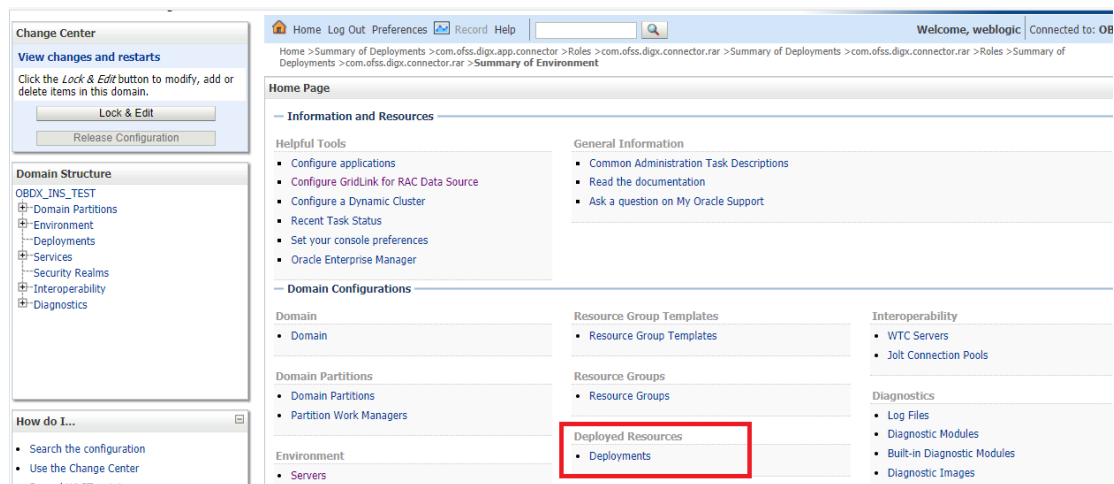


Click on **Activate Changes**



Outbound credential mappings

Login Weblogic Admin Console. Click on Deployments.



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

Warning (0) OK (2)								
	adf.oracle.domain.webapp.batik-bundle(1.0,12.2.1.3.0)	Active		Library	AdminServer, InstallerTest	Global		100
	adf.oracle.domain.webapp.guava(1.0,12.2.1.3.0)	Active		Library	AdminServer, InstallerTest	Global		100
	adf.oracle.domain.webapp.xml-apis-ext(1.0,12.2.1.3.0)	Active		Library	AdminServer, InstallerTest	Global		100
	AuditMDBEAR	Active	OK	Enterprise Application	InstallerTest	Global		100
	BatchResourceAdapter	Active	OK	Enterprise Application	InstallerTest	Global		100
	coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, InstallerTest	Global		100
	com.ofss.digx.app.connector	Active	OK	Enterprise Application	InstallerTest	Global		100
	Modules							
	com.ofss.digx.connector.rar			Resource Adapter				
	EJBs							
	None to display							
	Web Services							
	None to display							
	DMS Application (12.2.1.1.0)	Active	OK	Web Application	AdminServer, InstallerTest	Global		5
	em	Active	OK	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

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.connector.rar The path to the source of the deployable unit on the AdminServer. [More Info...](#)

Click on **New**

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, weblogic Connected to: OBDX_INS

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
OBIX_INS_TEST
+ Domain Partitions
+ Environment
+ Deployments
+ Services
+ Security Realms
+ Interoperability
+ Diagnostics

Settings for com.ofss.digx.connector.rar
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 connection pools. 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 | Next

WLS User	EIS User	Outbound Connection Pool
There are no items to display		

New Delete Showing 0 to 0 of 0 Previous | Next

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

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

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 | Next

<input type="checkbox"/>	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_BUI
<input type="checkbox"/>	ra/DIGXConnectorJWTOKEN
<input type="checkbox"/>	ra/DIGXConnectorMERCHANT

View changes and restarts
Click the **Lock & Edit** button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration

Domain Structure
OBIX_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

Select "Default User" > Next

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

Domain Structure
OBIX_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 user that 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 user. 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.

Domain Structure
OBIX_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**

BackNextFinishCancel

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::

BackNextFinishCancel

Check AES_KEY mapping is created successfully.

Customize this table

Outbound Credential Mappings

NewDelete

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

NewDelete

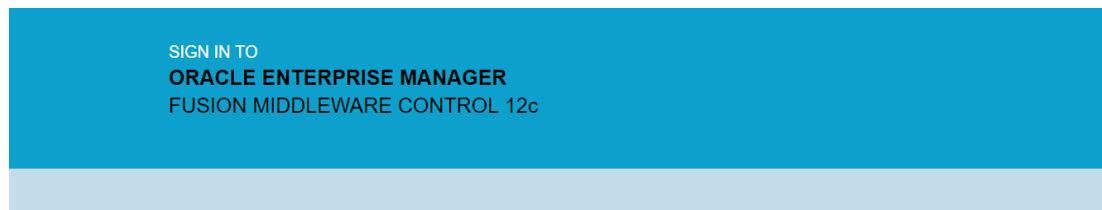
Apply JRF Template

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”.



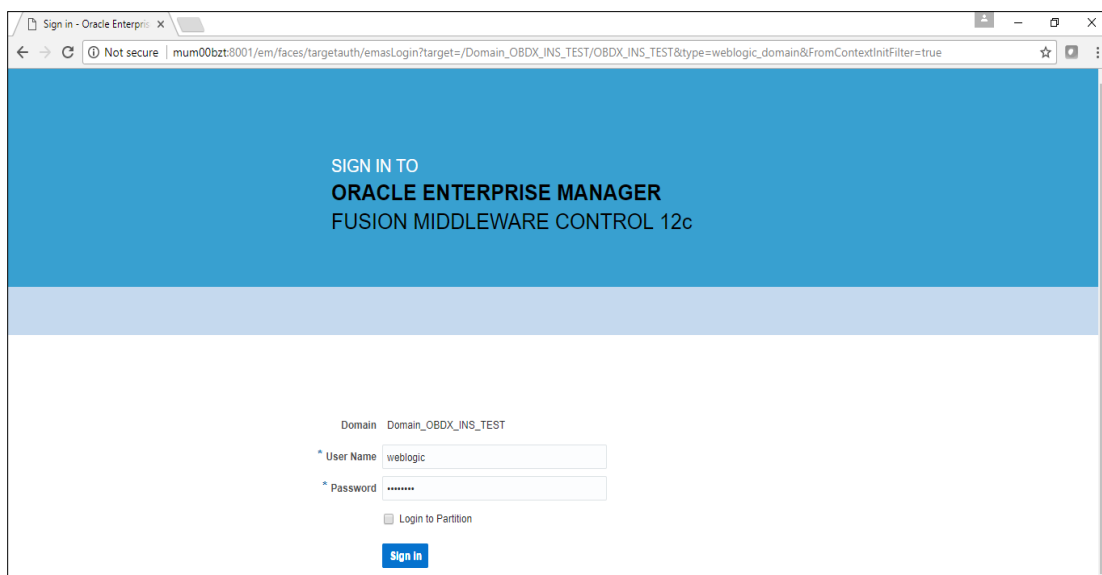
Domain: Domain_OBDX182_UBS140

* User Name:

* Password:

☐ Login to Partition

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



- Click on Sign In

Oracle Enterprise Manager Fusion Middleware Control 12c

OBDSX_INS_TEST

WebLogic Domain

Jul 23, 2017 11:43:52 AM UTC

Information

Certain functionality on this page is available only when you own the edit session lock. To obtain the lock, click "Lock and Edit" in the Change Center menu.

Servers

1 Down
1 Up

Clusters

1 Unknown

Deployments

7 Down
1 Up

Administration Server

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

Servers

Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)	Mem Usage (MB)
AdminServer(admin)	Up			Running	OK	9001	14.99	596.5
OBDSX_INS1	Down	InstallerTest	Host1	Shutdown	Unknown	9003	Unavailable	Unavailable

Rows Selected: 1 Columns Hidden: 33 Servers: 2 of 2

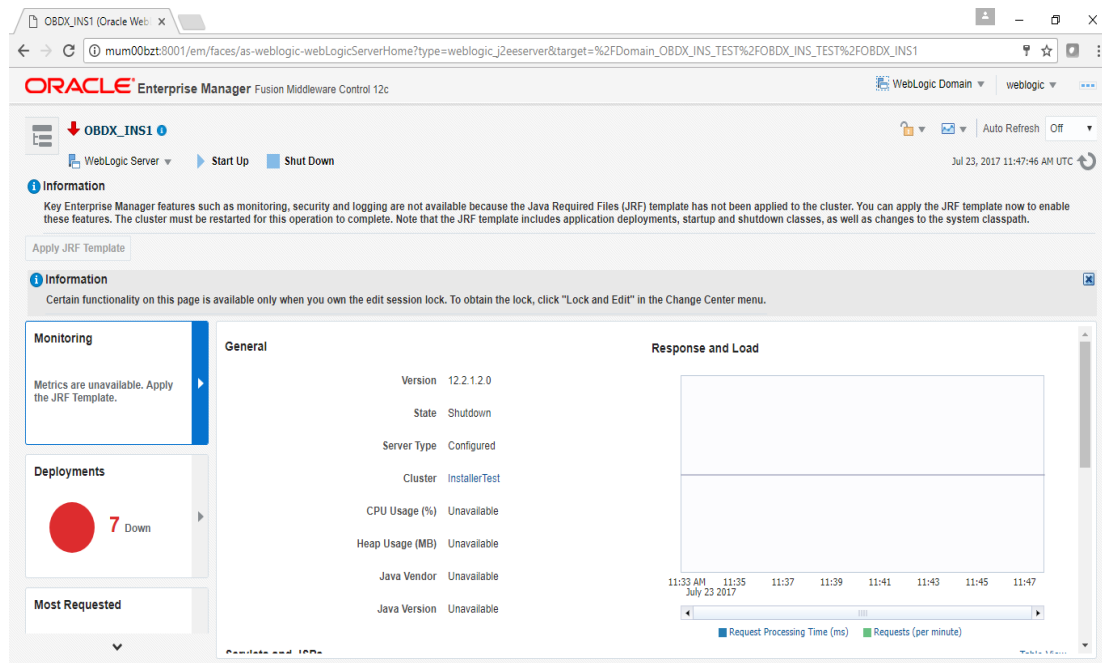
- Click on the Managed Server (as highlighted below)

Servers

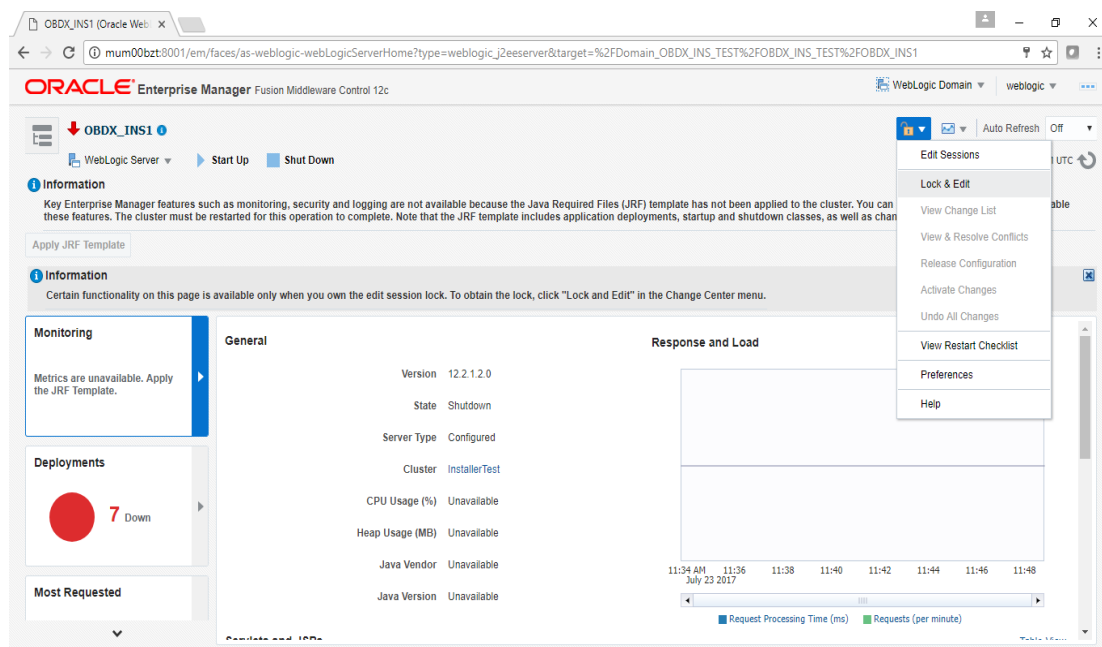
View Create Delete Control

Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Up			Running	OK	9001
OBDSX_INS1	Down	InstallerTest	Host1	Shutdown	Unknown	9003

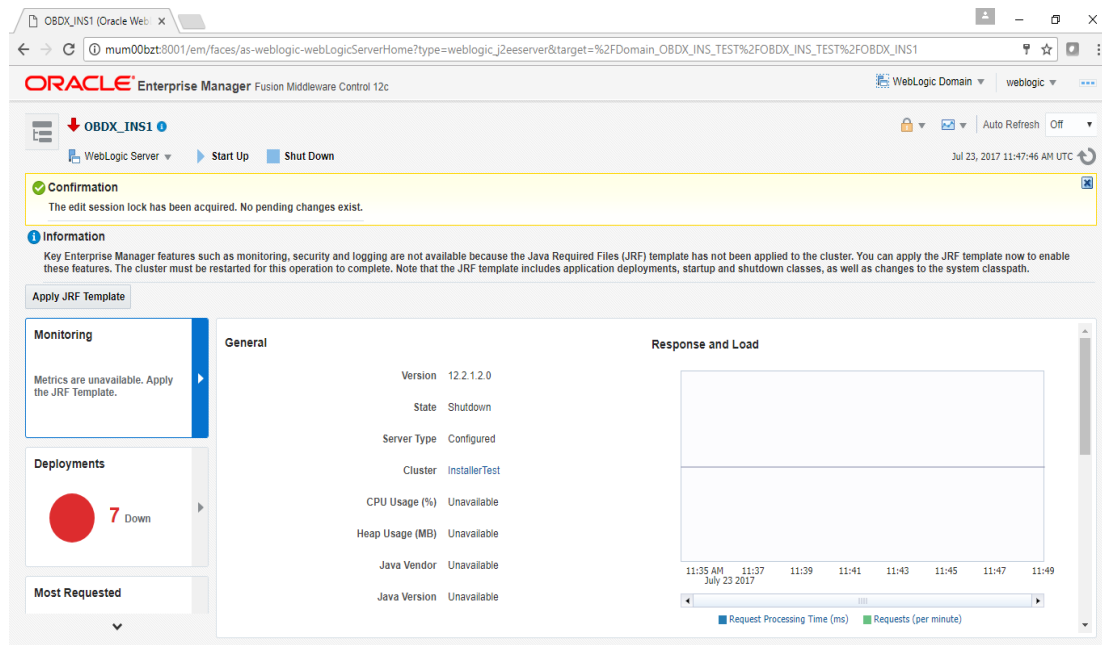
Note : Depending on installer.properties, Managed server will differ from above screenshot.



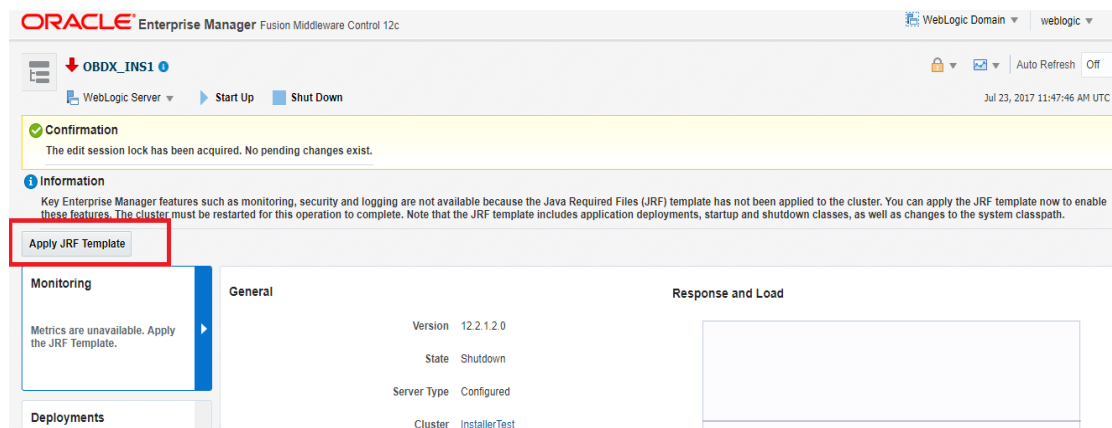
- Click on “Lock and Edit” option (as shown in screenshot).



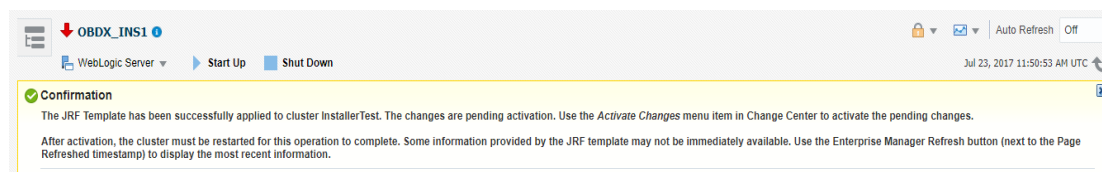
You will see below screen stating the edit session confirmation



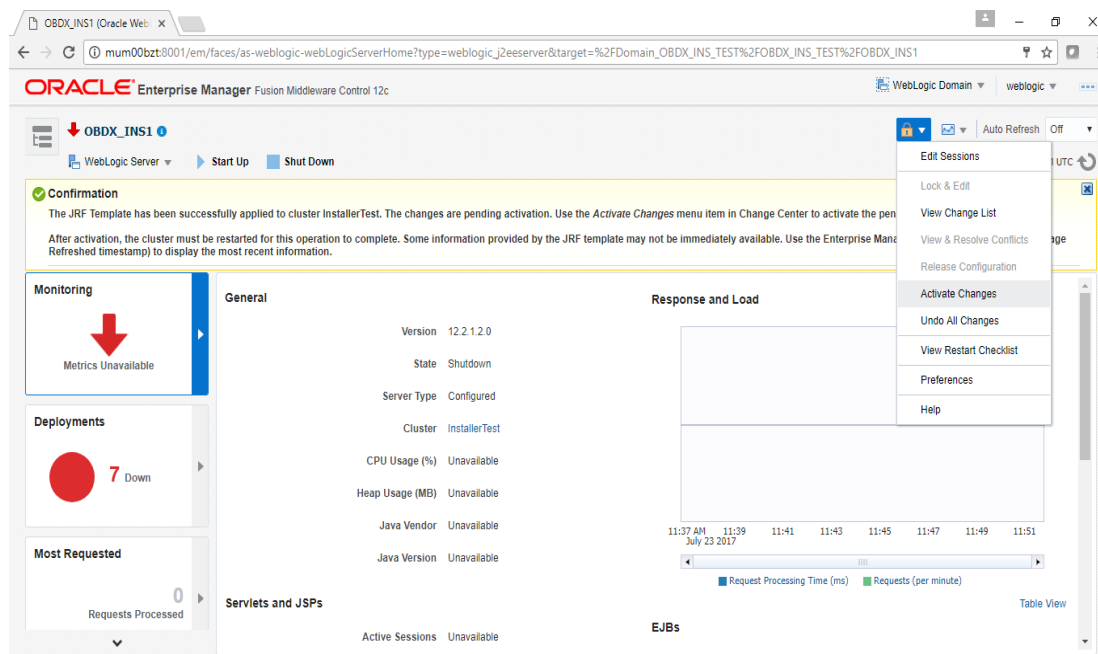
- Click on “Apply JRF Template” option (as shown in screenshot).



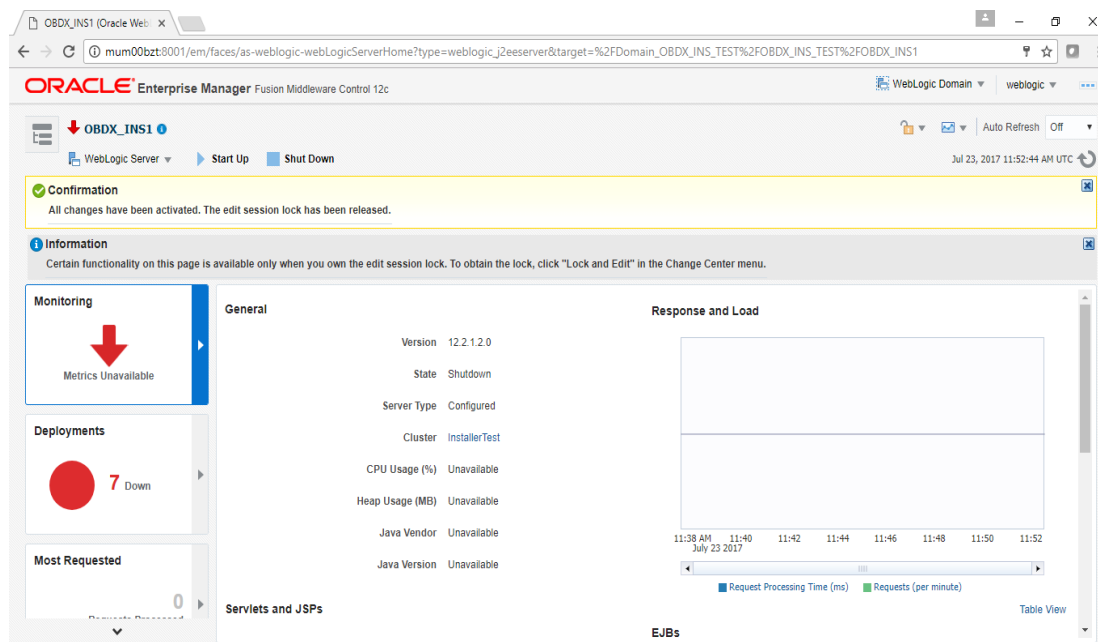
Is JRF successfully applied, you will get below Confirmation.



- 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 DBAAuthenticator. In case of DBAAuthenticator 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.

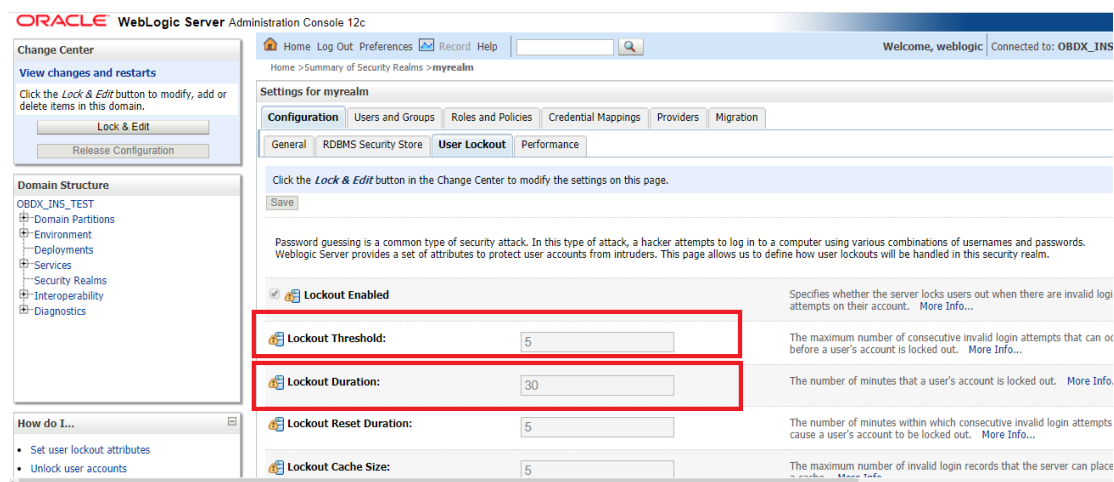
2] Lockout Duration : It should be equal to property under prop_id "USER_LOCK_PERIOD" maintained in DIGX_FW_CONFIG_ALL_B table.

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.

Lockout and History

Lockout Failure Count	5
Password Lockout Duration	20 days
Lockout Soft Failure Count	n

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



ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OBDX_INS

Home > Summary of Security Realms > myrealm

Settings for myrealm

Configuration Users and Groups Roles and Policies Credential Mappings Providers Migration

General RDBMS Security Store **User Lockout** Performance

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

Save

Password guessing is a common type of security attack. In this type of attack, a hacker attempts to log in to a computer using various combinations of usernames and passwords. WebLogic Server provides a set of attributes to protect user accounts from intruders. This page allows us to define how user lockouts will be handled in this security realm.

☒ **Lockout Enabled** Specifies whether the server locks users out when there are invalid login attempts on their account. [More Info...](#)

Lockout Threshold: 5 The maximum number of consecutive invalid login attempts that can occur before a user's account is locked out. [More Info...](#)

Lockout Duration: 30 The number of minutes that a user's account is locked out. [More Info...](#)

Lockout Reset Duration: 5 The number of minutes within which consecutive invalid login attempts cause a user's account to be locked out. [More Info...](#)

Lockout Cache Size: 5 The maximum number of invalid login records that the server can place in its cache. [More Info...](#)

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>
```

```

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

```

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_handlers>
<logger?>
<logger name='com.offss' level='ERROR' useParentHandlers='false'>
  <handler name='ofss-handler' />
</logger>
<logger name='000.com.offss' level='ERROR' useParentHandlers='false'>
  <handler name='ofss-handler' />
</logger>
<logger name='' level='WARNING:1' useParentHandlers='true'>
  <handler name='odl-handler' />
  <handler name='wls-domain' />
  <handler name='console-handler' />
</logger>
<logger name='oracle' level='NOTIFICATION:1' useParentHandlers='true' />
<logger name='oracle.adf' useParentHandlers='true' />
<logger name='oracle.adf.desktopintegration' useParentHandlers='true' />
<logger name='oracle.adf.faces' useParentHandlers='true' />
<logger name='oracle.adf.controller' useParentHandlers='true' />
<logger name='oracle.adfinternal' useParentHandlers='true' />
<logger name='oracle.adfinternal.controller' useParentHandlers='true' />
<logger name='oracle.adfde' useParentHandlers='true' />
<logger name='oracle.adfinternal' 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 http://java.sun.com/xml/ns/persistence/persistence_2_0.xsd'>
  <persistence-unit name='DIGX' transaction-type='JTA'>
    <jta-data-source>DIGX/jta-data-source</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.offss.fc.infra.das.orm.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.offss.digx.infra.das.orm.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
  <persistence-unit name='BATCH' transaction-type='RESOURCE_LOCAL'>
    <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.offss.fc.infra.das.orm.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.offss.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</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.offss.fc.infra.das.orm.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.offss.digx.infra.das.orm.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
</persistence>
[
  META-INF]$
```

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”.

SIGN IN TO
ORACLE ENTERPRISE MANAGER
FUSION MIDDLEWARE CONTROL 12c

Domain Domain_OBDX182_UBS140

* User Name

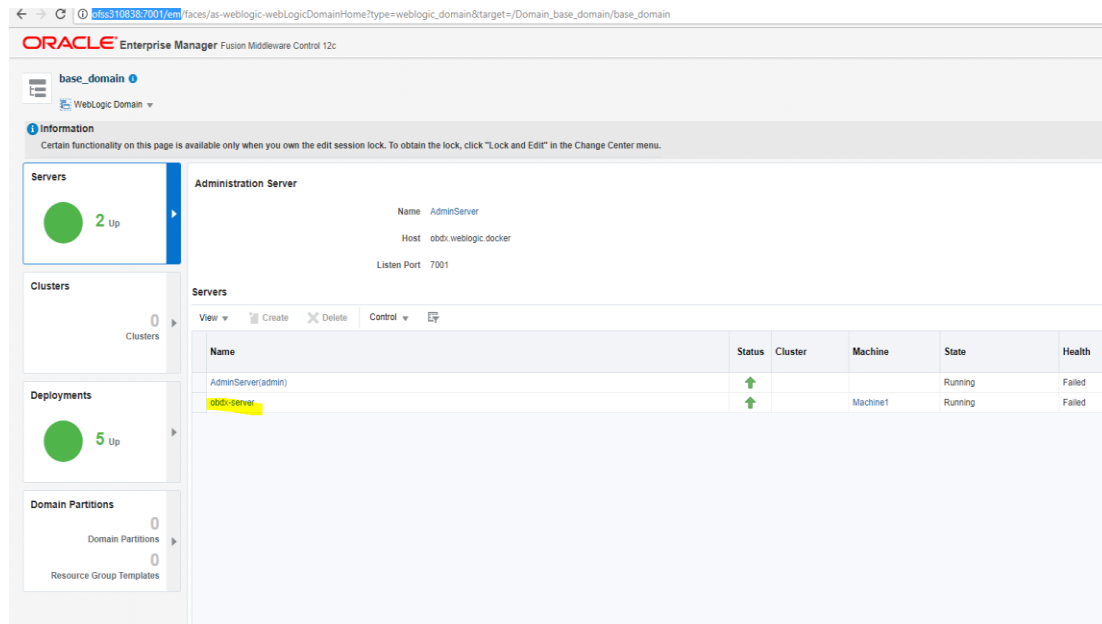
* Password

☐ Login to Partition

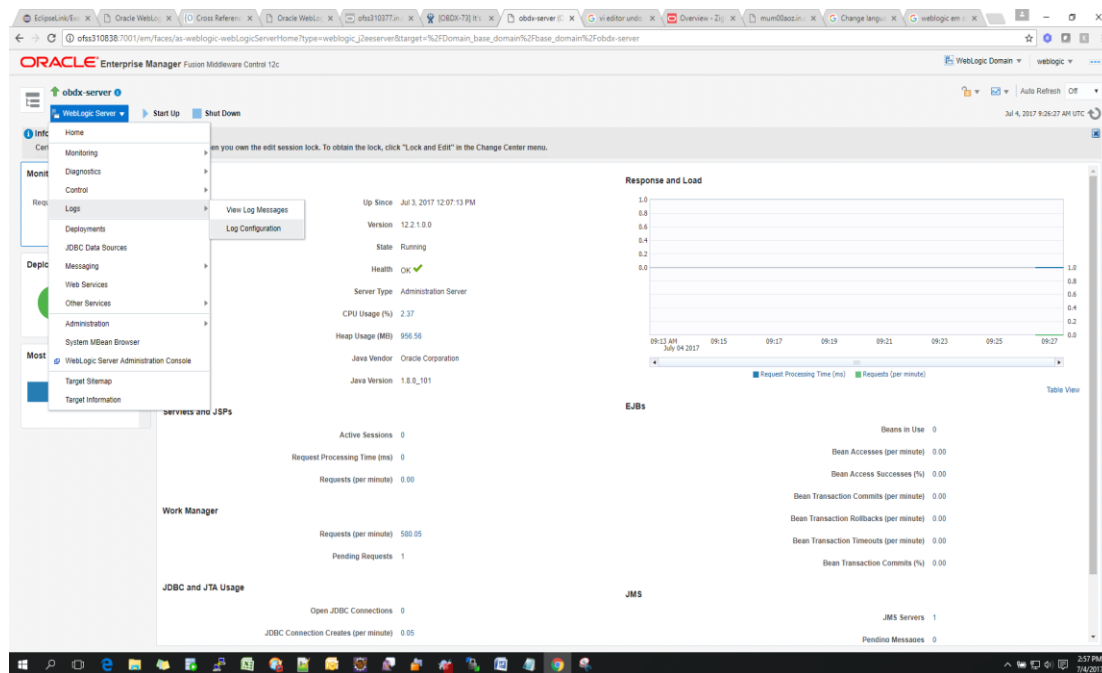
Sign in

- 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.

Oracle Enterprise Manager Fusion Middleware Control 12c

obdx-server WebLogic Server Start Up Shut Down

/Domain_base_domain/base_domain/obdx-server > Log Configuration

View Runtime Loggers

Search All Categories

Logger Name	Oracle Diagnostic Logging Level (Java Level)	Log File	Persistent Log Level State
Root Logger	ERROR:1 (SEVERE)	ofss-handler	ERROR:1
000	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
08	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
08.com.ofss	ERROR:1 (SEVERE)	ofss-handler	ERROR:1
ExampleApplication:Encoder	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
LifeCycle	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
Security	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
ServiceLoader	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
com	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
global	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
io	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
javax	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
jersey	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
jmx4j	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	
oracle	NOTIFICATION:1 (INFO)	ofss-handler	NOTIFICATION:1
org	ERROR:1 (SEVERE) [Inherited f]	ofss-handler	

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

Oracle FLEXCUBE Universal Banking (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, distribut

This page summarizes the JMS system modules that have been created for this domain.

[Customize this table](#)

JMS Modules (Filtered - More Columns Exist)

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

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

Settings for UBSSystemModule

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

Name:	UBSSystemModule	The name of this JMS system module. More Info...
Scope:	Global	Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template.
Descriptor File Name:	jms/ubssystemmodule-jms.xml	The name of the JMS module descriptor file. More Info...

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

[Customize this table](#)

Summary of Resources

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

New	Delete	Showing 1 to 1 of 1		
<input type="checkbox"/> Name	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/> UBSSystemModule	Foreign Server	N/A	UBSSubdeployment	obdx_cluster
New	Delete	Showing 1 to 1 of 1		

- Click on UBSForeignServer

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

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

Save

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

Name: UBSForeignServer

JNDI Initial Context Factory: weblogic.jndi.WLInitialContextFactory

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

JNDI Properties Credential:

Confirm JNDI Properties Credential:

JNDI Properties:

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

- Click on Lock & Edit

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Save

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

Name: UBSForeignServer

JNDI Initial Context Factory: weblogic.jndi.WLInitialContextFactory

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

JNDI Properties Credential:

Confirm JNDI Properties Credential:

JNDI Properties:

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

Set below configurations with:

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

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

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

- Click on Save

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.WLInitialContextFactory 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 it being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic 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: *****

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 Specifies whether this JMS resource defaults to the parent module's targeting or uses the module's own mechanism. [More Info...](#)

Save

Home > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > 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.WLInitialContextFactory 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 it being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic 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.

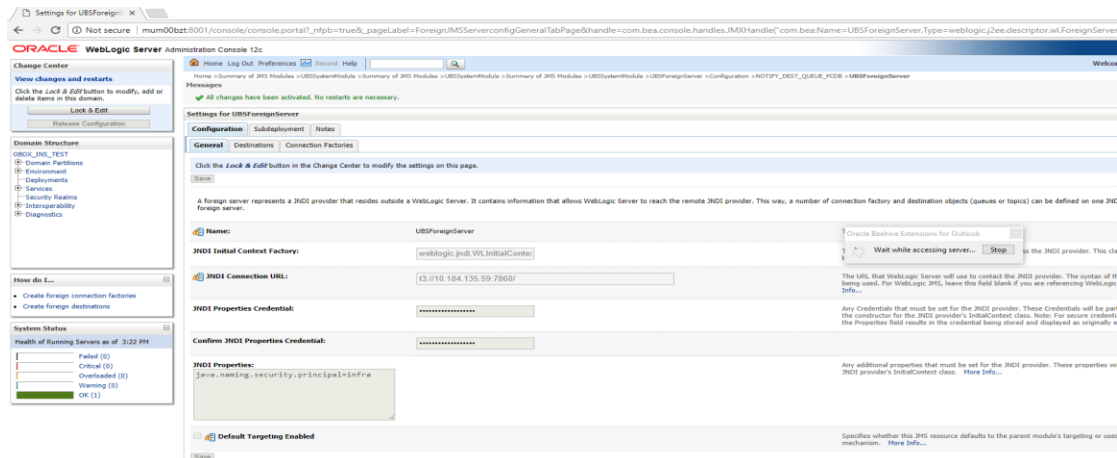
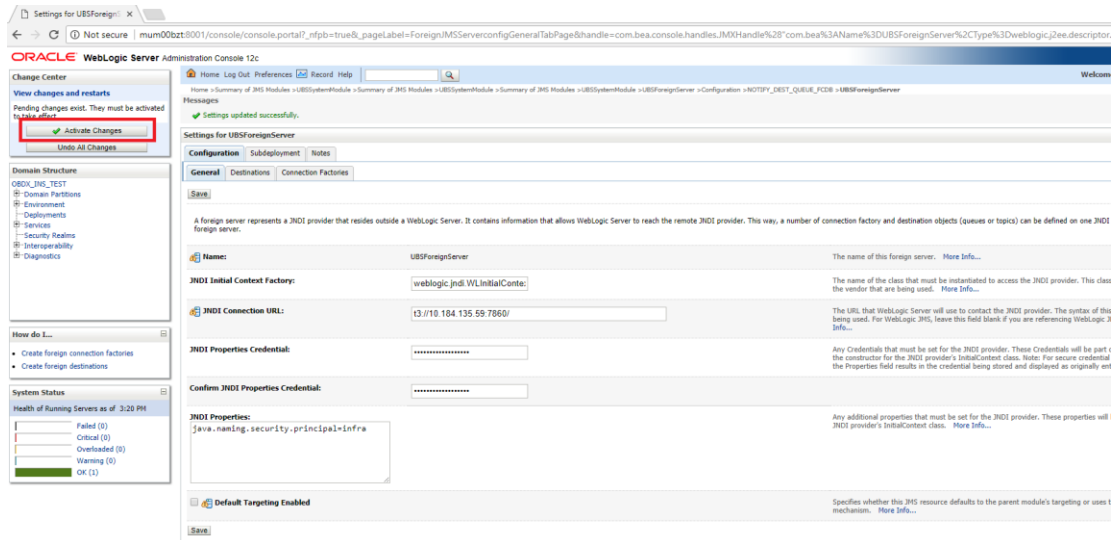
Confirm JNDI Properties Credential: *****

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 Specifies whether this JMS resource defaults to the parent module's targeting or uses the module's own mechanism. [More Info...](#)

Save

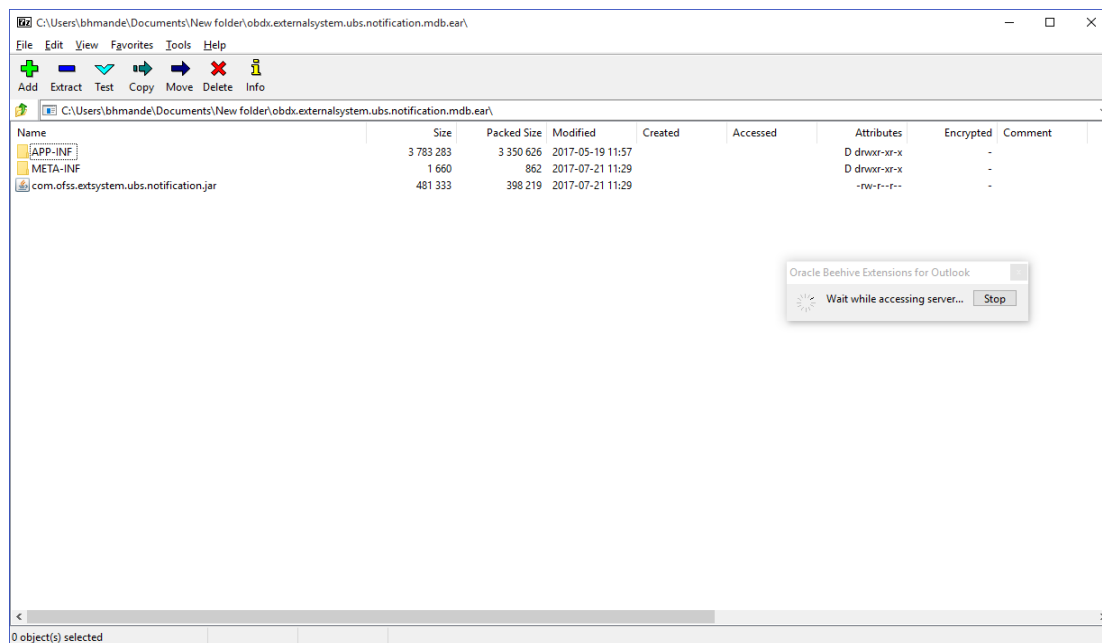
- Click on Activate Changes



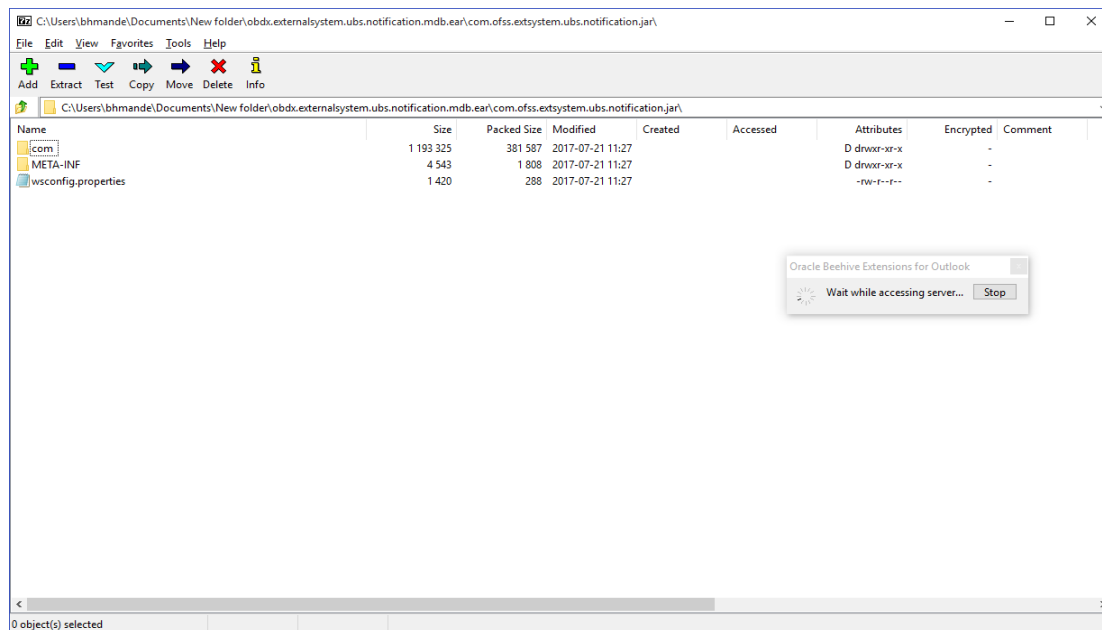
Deployment of notification MDB application

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

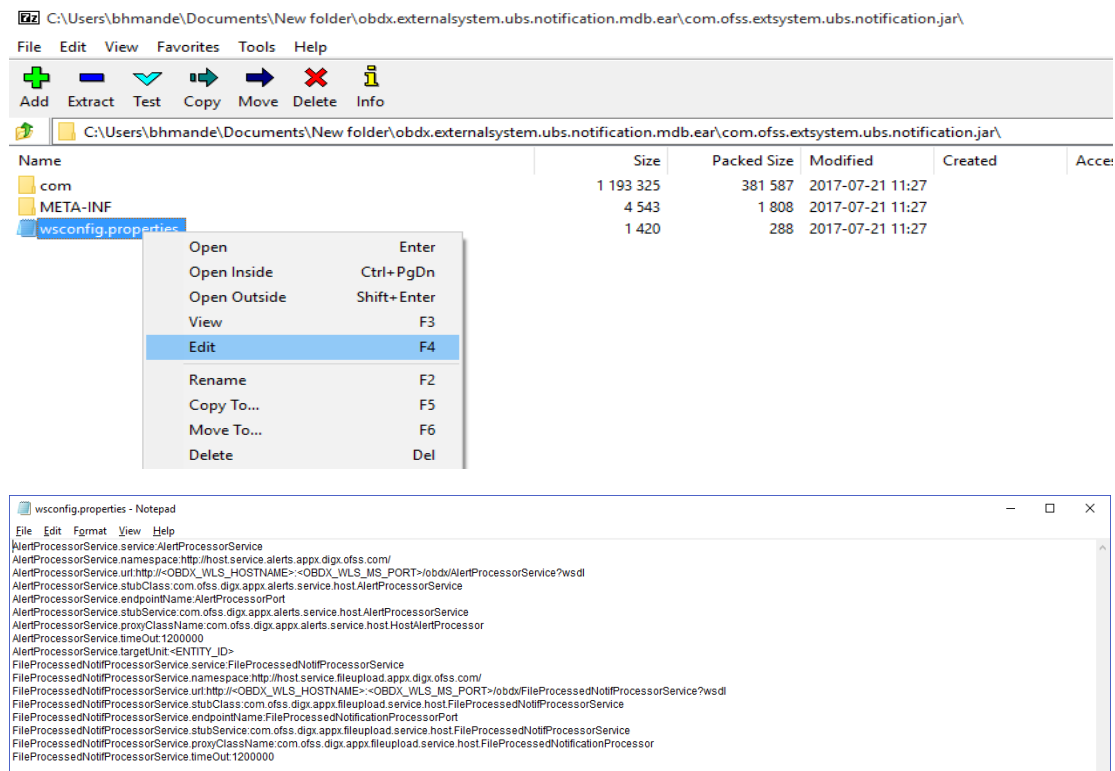
- Open the obdx.externalsystem.ubs.notification.mdb.ear (EAR file is available <OBDX INSTALLER DIR>/installables/app/components/ubs/deploy/obdx.externalsystem.ubs.notification.mdb.ear) using any archiving tools (i.e.: 7-zip)



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



- Open the wsconfig.properties to edit



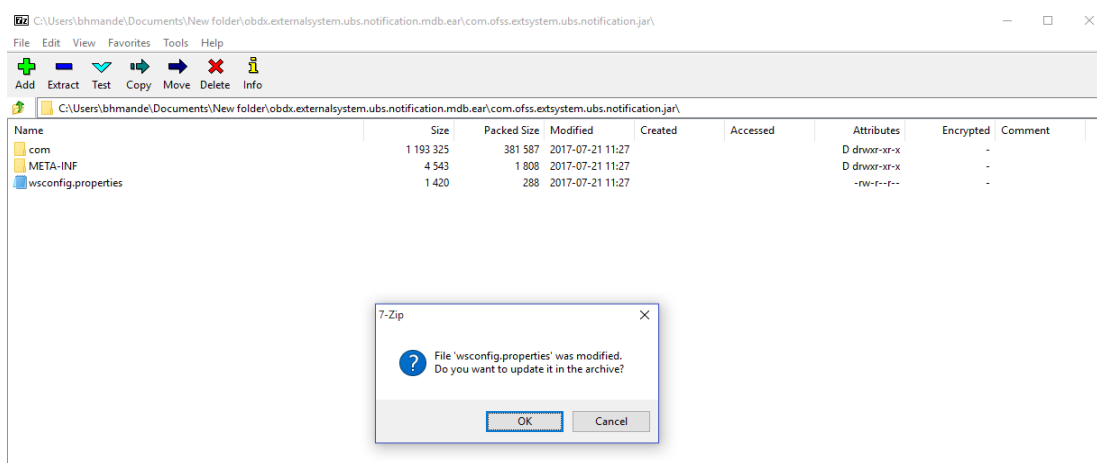
- Change the URL for AlertProcessorService.url, FileProcessedNotificationProcessorService.url and AlertProcessorService.targetUnit (Note the hostname and port should be of OBDX managed server created by installer. Entity ID should be OBDX_BU for Base entity)

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

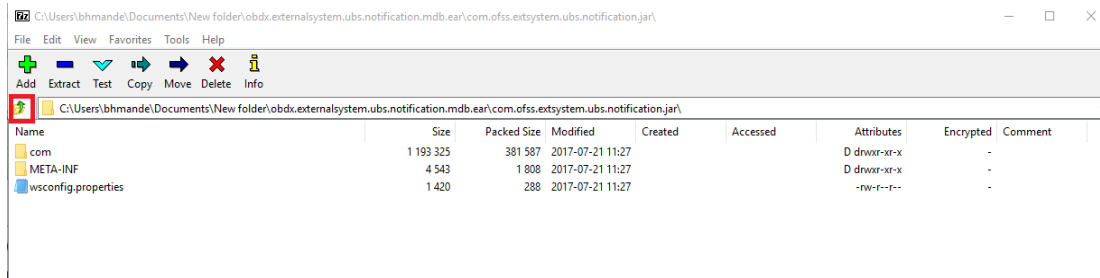
```
wsconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service.AlertProcessorService
AlertProcessorService.namespace.http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url.http://mumaa012.in.oracle.com:27003/obdx/AlertProcessorService?wsdl
AlertProcessorService.stubClass.com.ofss.digx.appx.alerts.service.host.AlertPr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

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

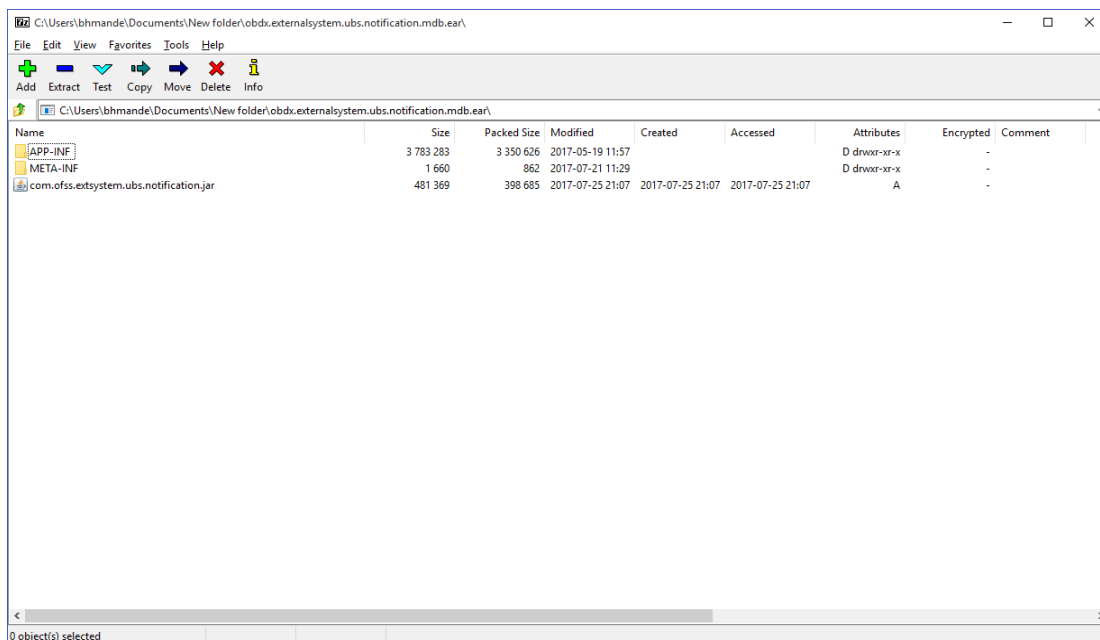
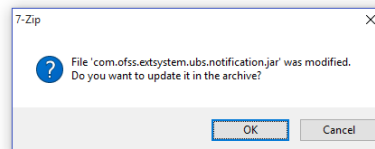
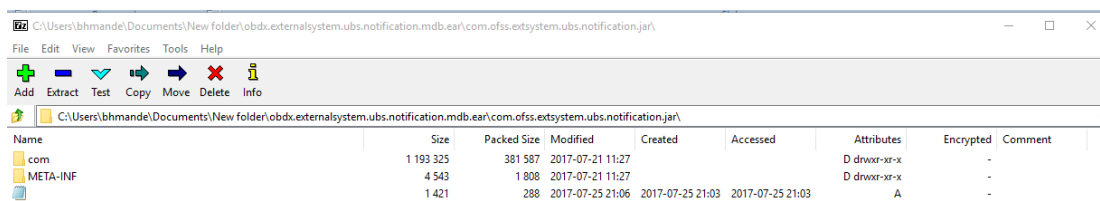
- Save changes.
- Click OK.



- 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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains a 'Change Center' section with a 'Lock & Edit' button highlighted by a red rectangle. The main content area displays the 'Summary of Deployments' page, which includes a table of installed applications and modules.

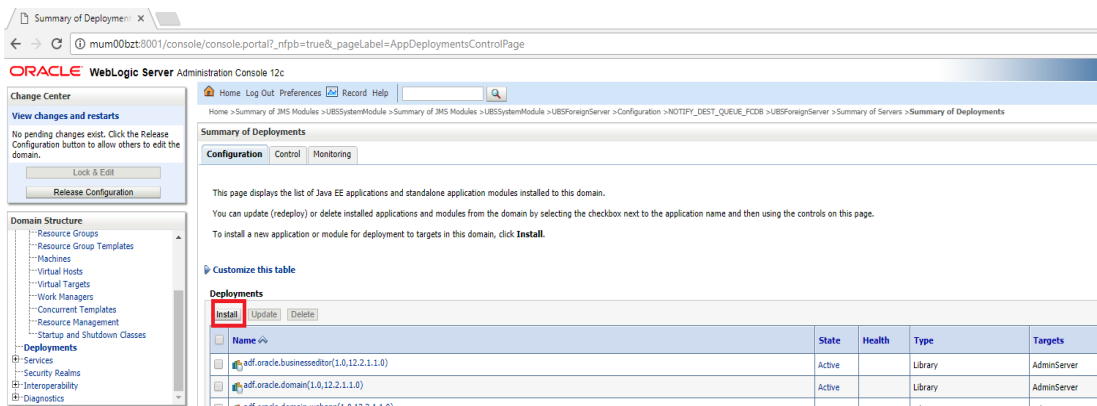
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
my.oracle.businessintegrator(1.0.12.2.1.1.0)	Active		Library	AdminServer	Global		100
my.oracle.domain(1.0.12.2.1.1.0)	Active		Library	AdminServer	Global		100
my.oracle.domain.webapp(1.0.12.2.1.1.0)	Active		Library	AdminServer	Global		100
my.AuditPCBESR	New		Enterprise Application	InstallerTest	Global		100
my.BatchResourceAdapter	New		Enterprise Application	InstallerTest	Global		100
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer	Global		100
my.com.afss.dsp.app.connector	New		Enterprise Application	InstallerTest	Global		100
my.com.afss.dsp.app.service.net	New		Enterprise Application	InstallerTest	Global		100
my.com.afss.dsp.app.service.soup	New		Enterprise Application	InstallerTest	Global		100
my.DMS Application (12.2.1.1.0)	Active	OK	Web Application	AdminServer	Global		5

- Click Lock & Edit

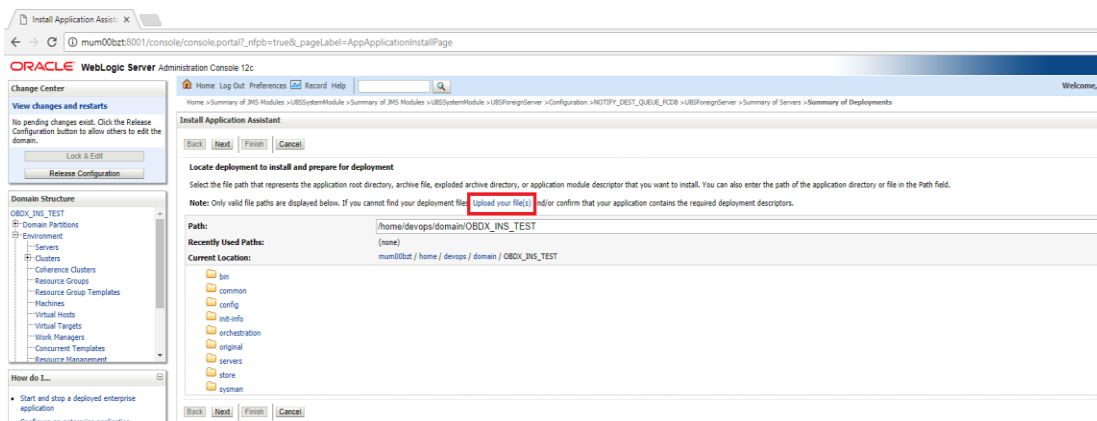
The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains a 'Change Center' section with a 'Lock & Edit' button highlighted by a red rectangle. The main content area displays the 'Summary of Deployments' page, which includes a table of installed applications and modules.

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
my.oracle.businessintegrator(1.0.12.2.1.1.0)	Active		Library	AdminServer	Global		100
my.oracle.domain(1.0.12.2.1.1.0)	Active		Library	AdminServer	Global		100
my.oracle.domain.webapp(1.0.12.2.1.1.0)	Active		Library	AdminServer	Global		100
my.AuditPCBESR	New		Enterprise Application	InstallerTest	Global		100
my.BatchResourceAdapter	New		Enterprise Application	InstallerTest	Global		100
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer	Global		100
my.com.afss.dsp.app.connector	New		Enterprise Application	InstallerTest	Global		100
my.com.afss.dsp.app.service.net	New		Enterprise Application	InstallerTest	Global		100
my.com.afss.dsp.app.service.soup	New		Enterprise Application	InstallerTest	Global		100
my.DMS Application (12.2.1.1.0)	Active	OK	Web Application	AdminServer	Global		5

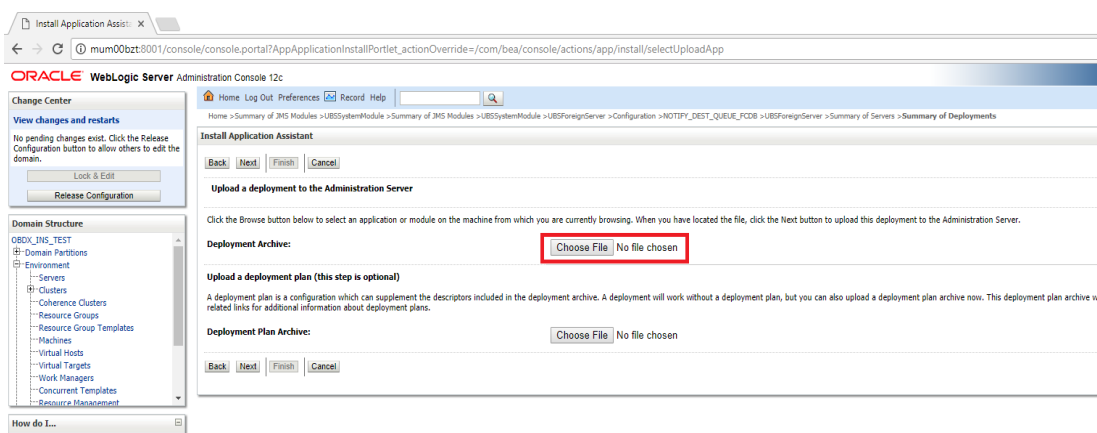
- Click on Install



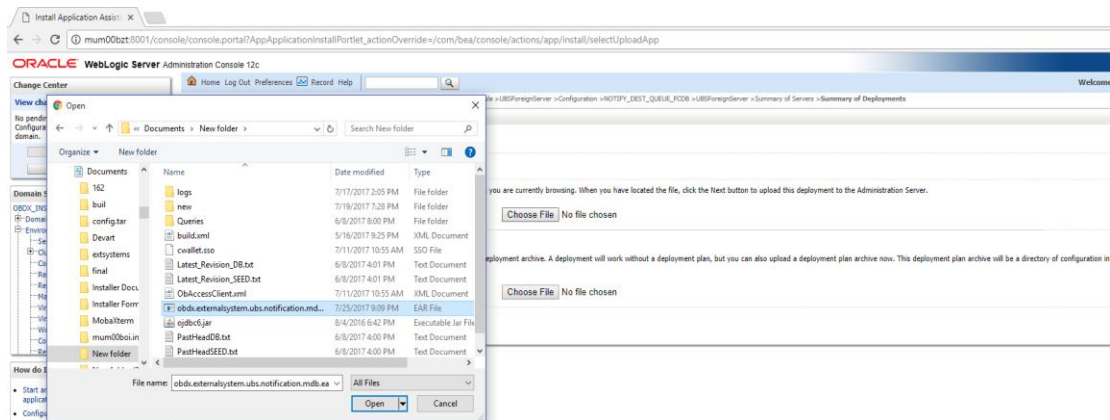
- Click on Upload your file(s)



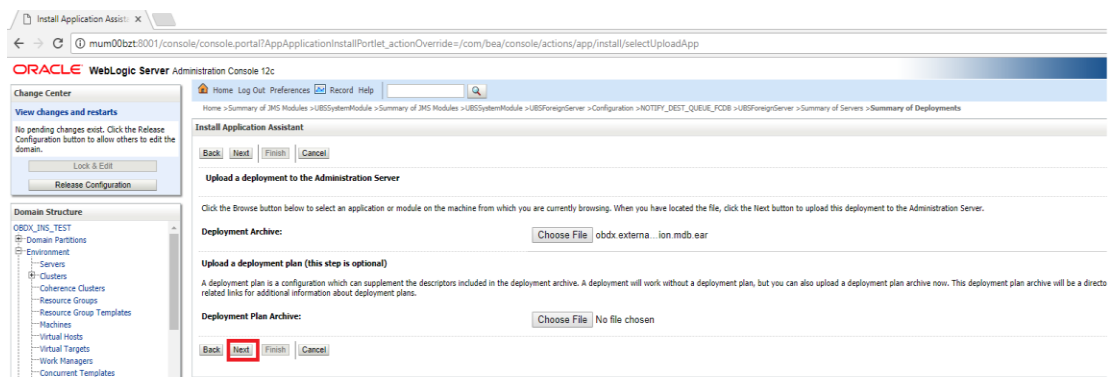
- Click on Choose File under Deployment Archive



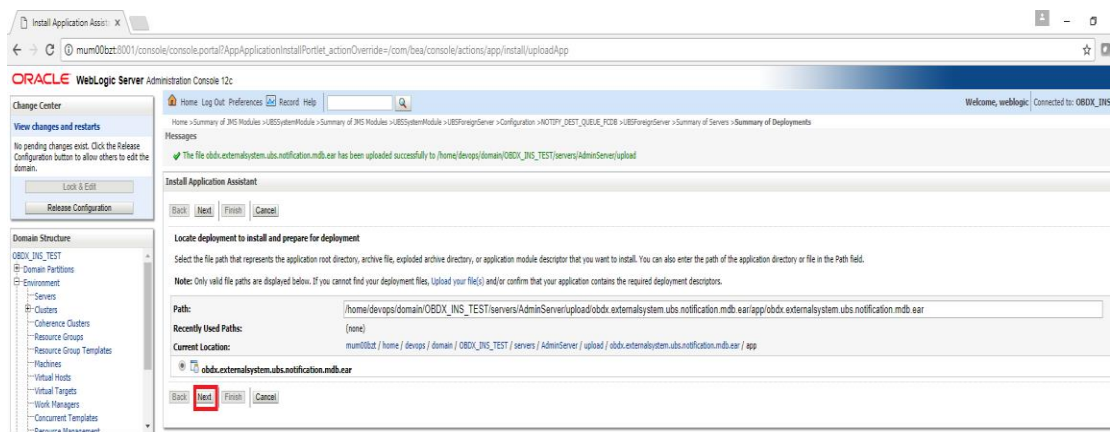
- Navigate to customized obdx.externalsystem.ubs.notification.mdb.ear and click Open



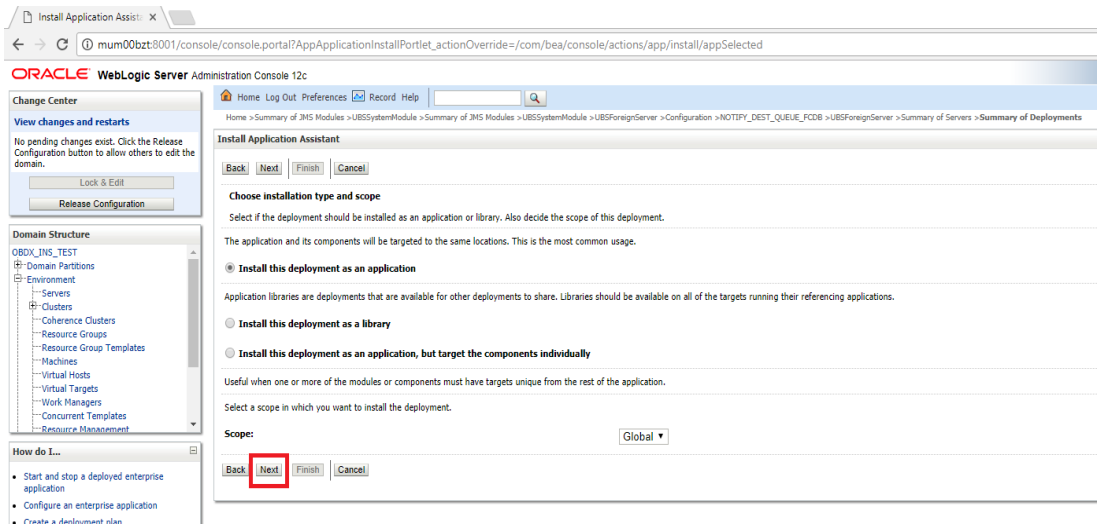
- Click Next



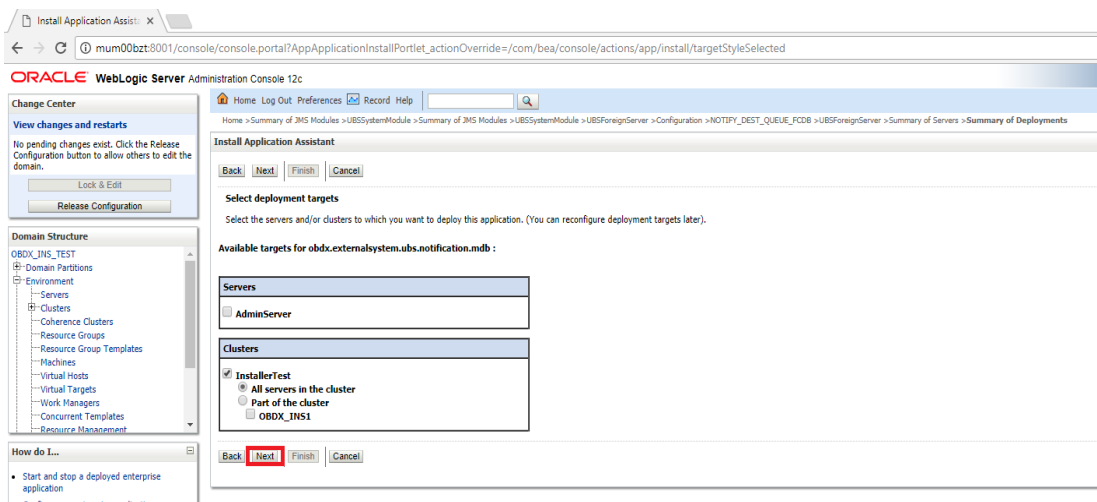
- Click Next



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



- Select Cluster as target and click Next



- Click Next

Oracle WebLogic Server Administration Console 12c

Home > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > UBSForeignServer > Configuration > NOTIFY_DEST_QUEUE_FCD6 > UBSForeignServer > Summary of Servers > Summary of Deployments

Install Application Assistant

Back **Next** Finish Cancel

Optional Settings

You can modify these settings or accept the defaults.

* Indicates required fields

— General

What do you want to name this deployment?

* Name: obdx.externalsystem.ubs.notification.mdb

Specification Version: 17.2.0.0.0

Implementation Version: 201707211119

— Security

What security model do you want to use with this application?

☒ **DO Only:** Use only roles and policies that are defined in the deployment descriptors.

☐ Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

☐ Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.

☐ Advanced: Use a custom model that you have configured on the realm's configuration page.

— Source Accessibility

How should the source files be made accessible?

- Click Finish.

Oracle WebLogic Server Administration Console 12c

Home > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > UBSForeignServer > Configuration > NOTIFY_DEST_QUEUE_FCD6 > UBSForeignServer > Summary of Servers > Summary of Deployments

Welcome, weblogic

Install Application Assistant

Back Next **Finish** Cancel

Review your choices and click Finish

Click Finish to complete the deployment. This may take a few moments to complete.

— Additional Configuration

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

☒ **Yes, take me to the deployment's configuration screen.**

☐ No, I will review the configuration later.

— Summary

Deployment: (/home/develops/domain/OBDX_JMS_TEST/servers/adminServer/upload/obdx.externalsystem.ubs.notification.mdb.ear/app/obdx.externalsystem.ubs.notification.mdb.ear)

Name: obdx.externalsystem.ubs.notification.mdb

Staging Node: Use the defaults defined by the chosen targets

Plan Staging Node: Use the same accessibility as the application

Security Model: DOOnly: Use only roles and policies that are defined in the deployment descriptors.

Scope: Global

Target Summary

Components	Targets
obdx.externalsystem.ubs.notification.mdb.ear	InstallerTest

Back Next **Finish** Cancel

System Status

Health of Runtime Services as of 11/08/2016

- Click Save.

Settings for obdx.externalssystem.ubs.notification.mdb

Overview | Deployment Plan | Configuration | Security | Targets | Control | Testing | Monitoring | Notes

Save

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

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

- Click Activate Changes

Settings for obdx.externalssystem.ubs.notification.mdb

Overview | Deployment Plan | Configuration | Security | Targets | Control | Testing | Monitoring | Notes

Activate Changes

Messages

Settings updated successfully.

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

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

Oracle WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

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

Messages

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

Settings for obdx.externalsystem.ubs.notification.mdb

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

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

Save

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

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

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)

Settings for OBPMSystemModule

Configuration Subdeployments Targets Security Notes

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

Name:	OBPMSystemModule	The name of this JMS system module. More Info...
Scope:	Global	Specifies if the JMS system module is accessible within the domain. More Info...
Descriptor File Name:	jms/obpmsystemmodule-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 subdeployments.

[Customize this table](#)

Summary of Resources

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

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

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

Deployment of notification MDB application

Before deployment of 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).

<input type="checkbox"/>	AuditMDBEAR	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	BatchResourceAdapter	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	coherence-transaction-rar	Active	✓ OK	Resource Adapter	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	com.ofss.digx.app.connector	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	ExtfaceSimulatorMDB	Active	✓ OK	Enterprise Application	obdx_cluster	Global		0

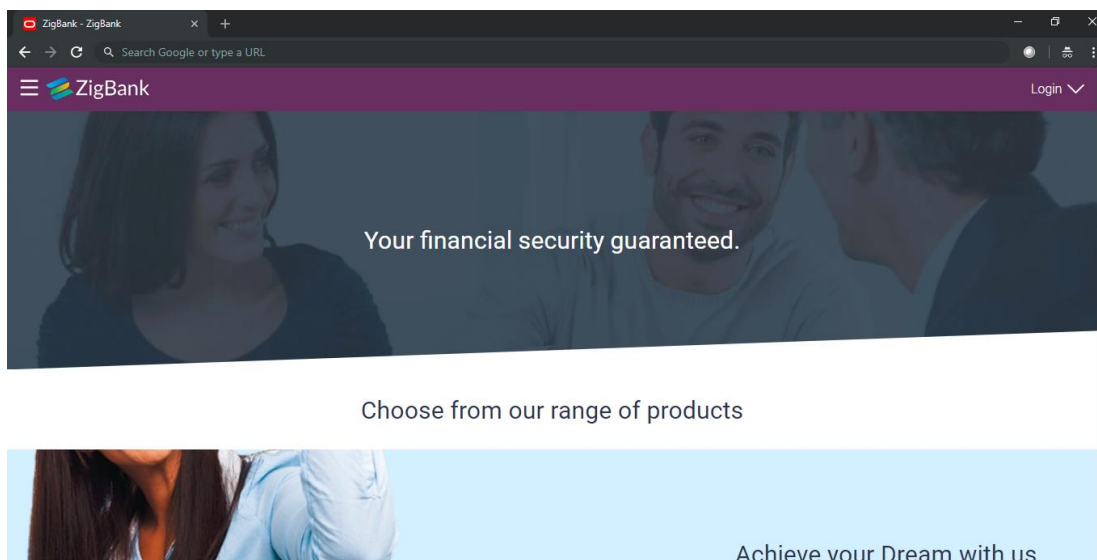
<input type="checkbox"/>	obdx.app.chatbot	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.core.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.core.patch(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.framework(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.mdb.report	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.oauth	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.rest.idm	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.smsbanking	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.soap	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.app.timer	Active	✓ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	obdx.cz.app.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	obdx.cz.extsystem.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	obdx.cz.thirdparty.app.domain(19.1.0.0.0,715)	Active		Library	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	obdx.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

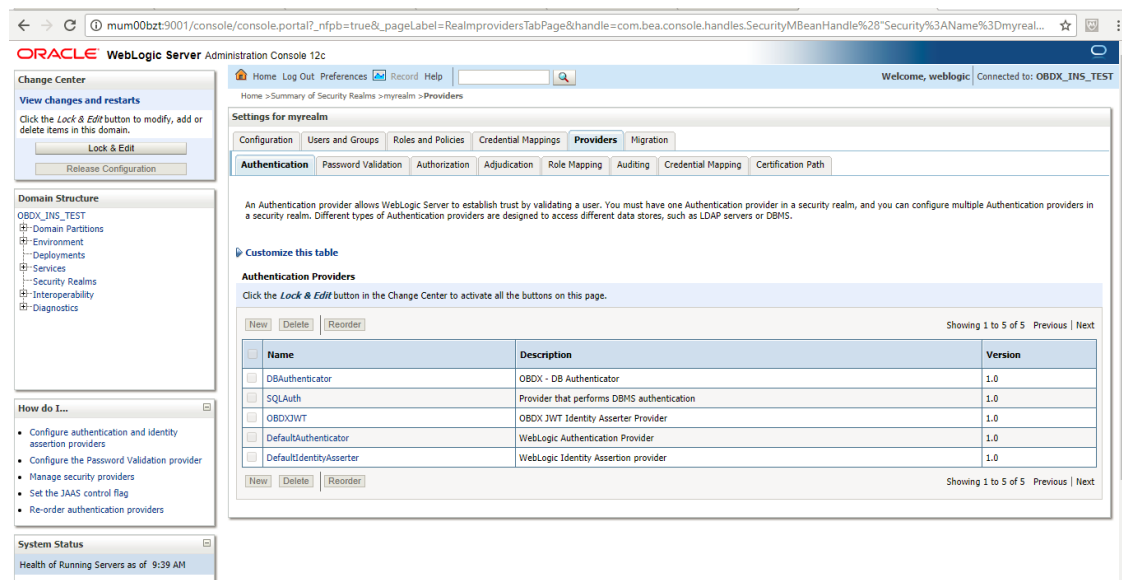
- **Security Realms**

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

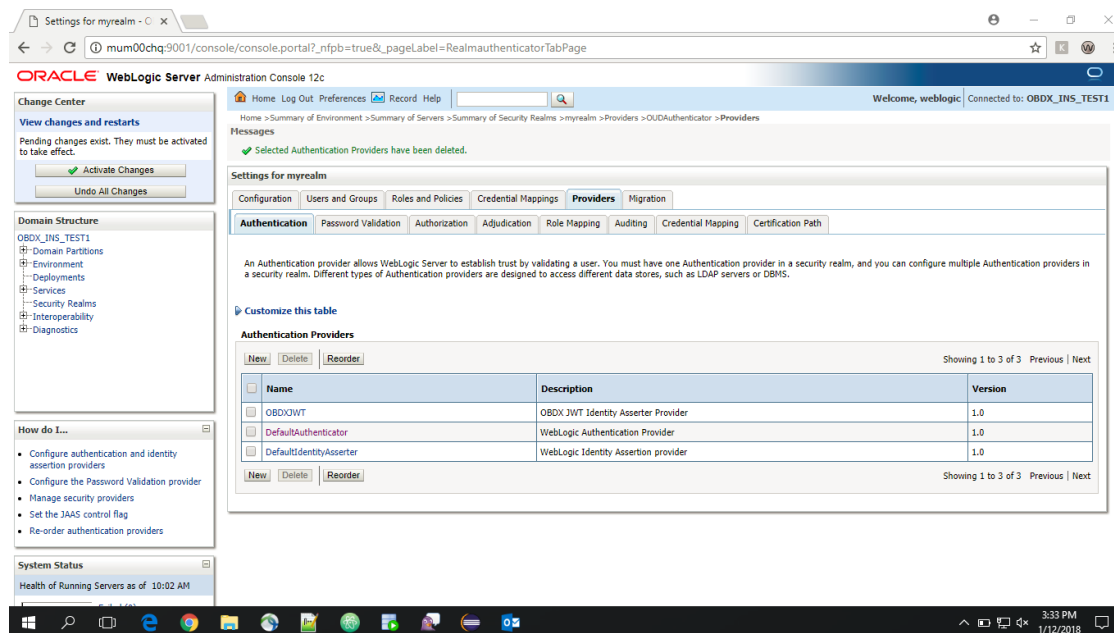
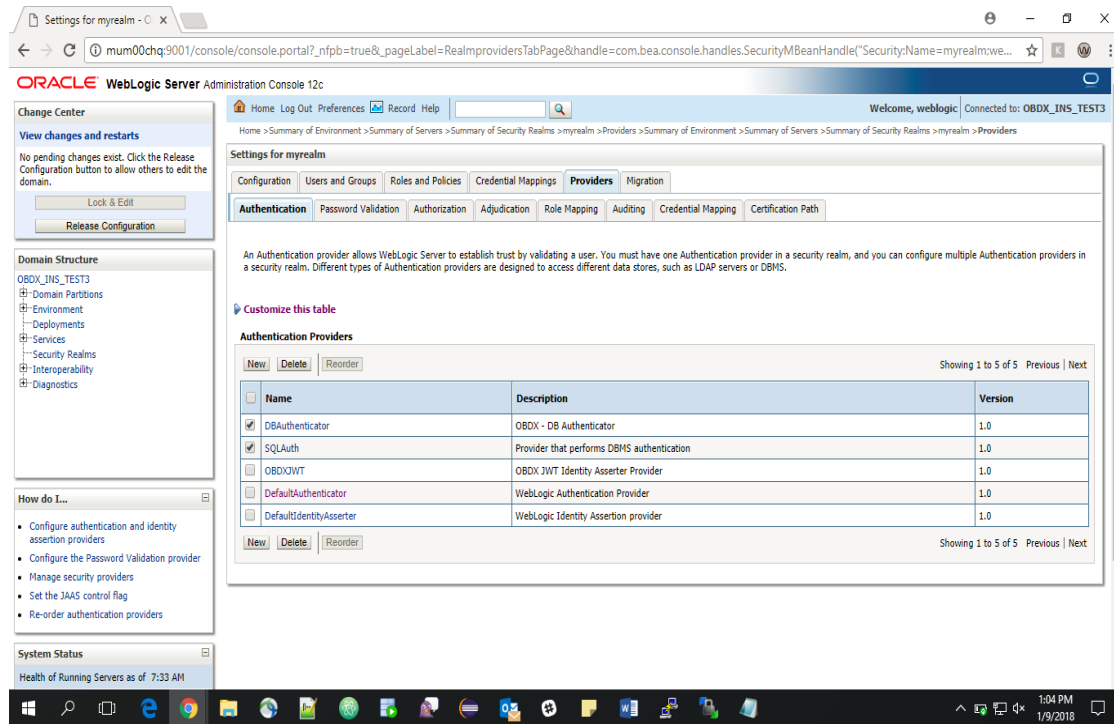
- Now, go to Security Realms > myrealm > Providers



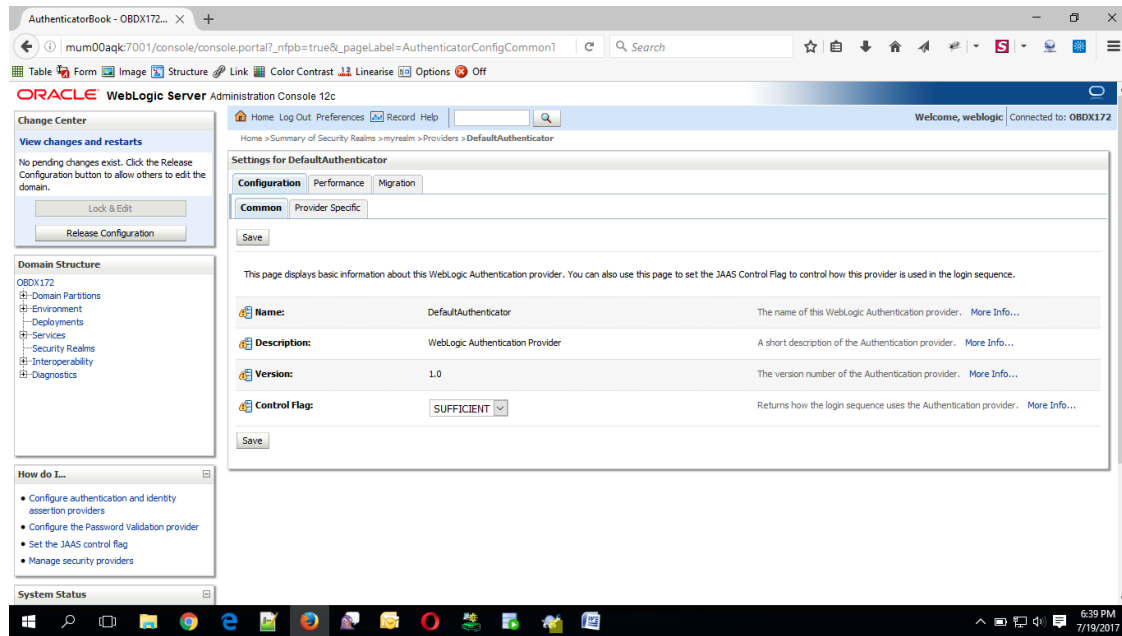
- Now click on “**Lock & Edit**” in order to edit the details.
- Delete the following Authenticators under providers-> **Authentication**:

DBAuthenticator

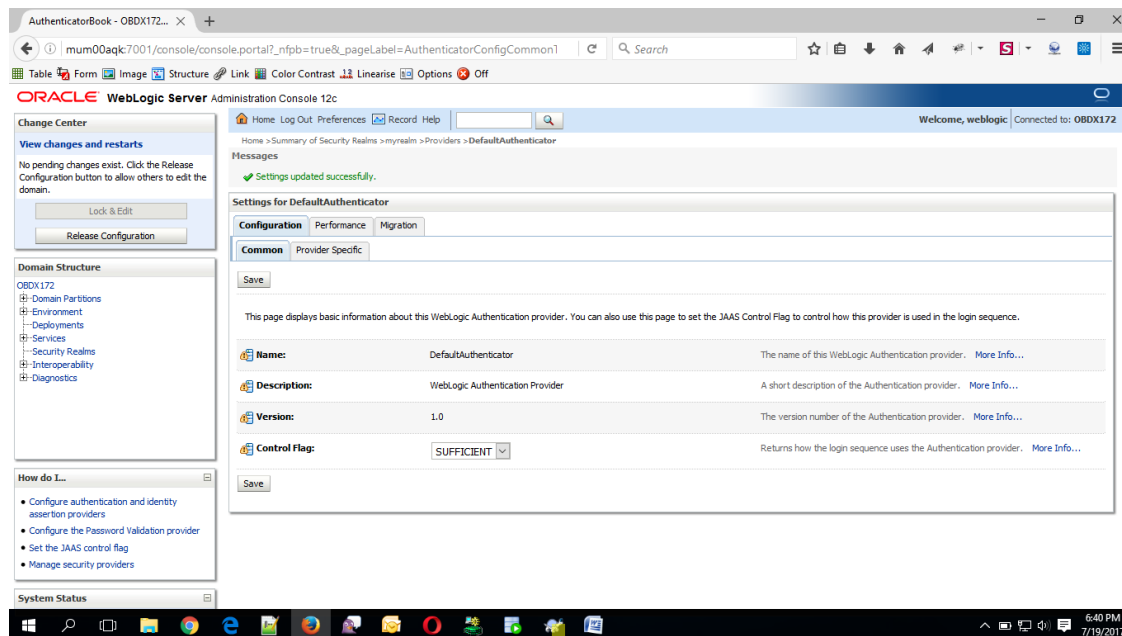
SQLAuth



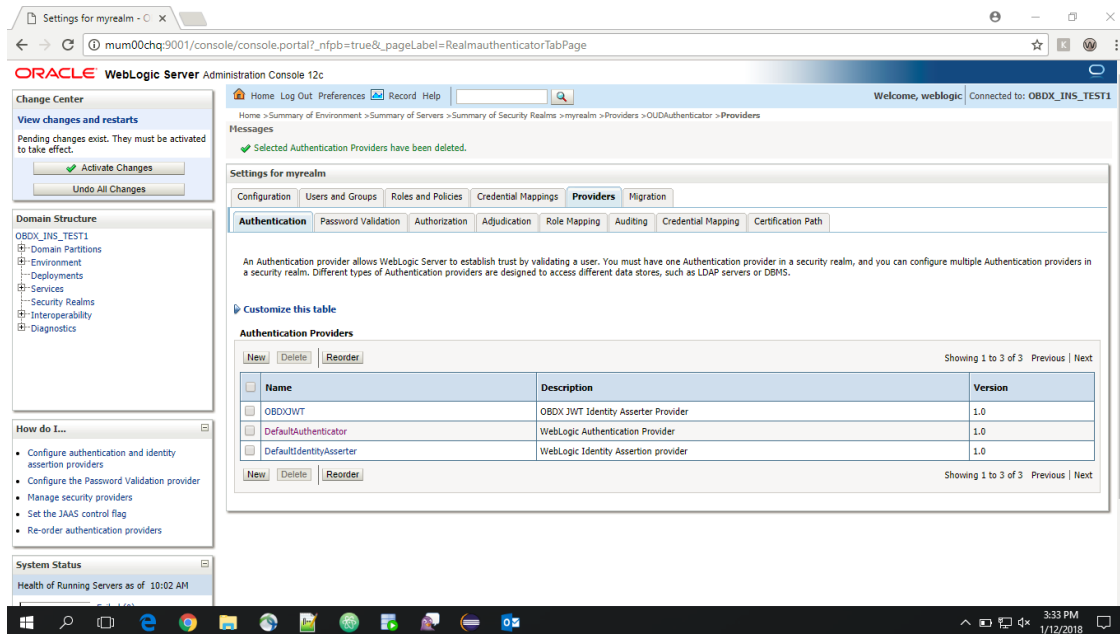
- Click on 'DefaultAuthenticator' provider and change the Control Flag to SUFFICIENT



- Click on Save button to save the changes



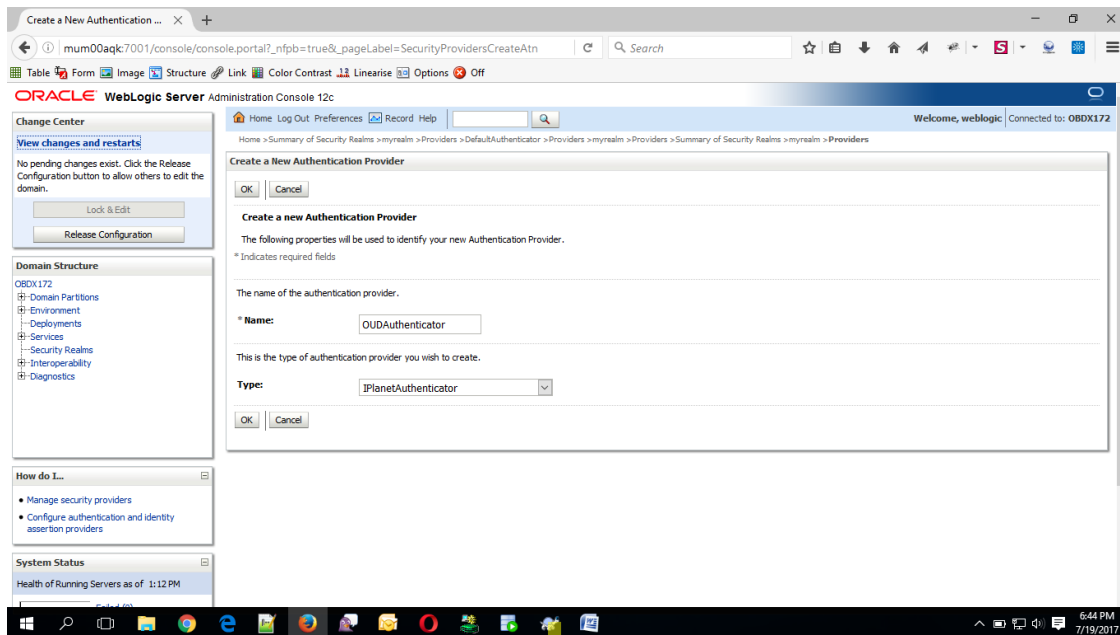
- Navigate Back to Security Realms > myrealm > Providers



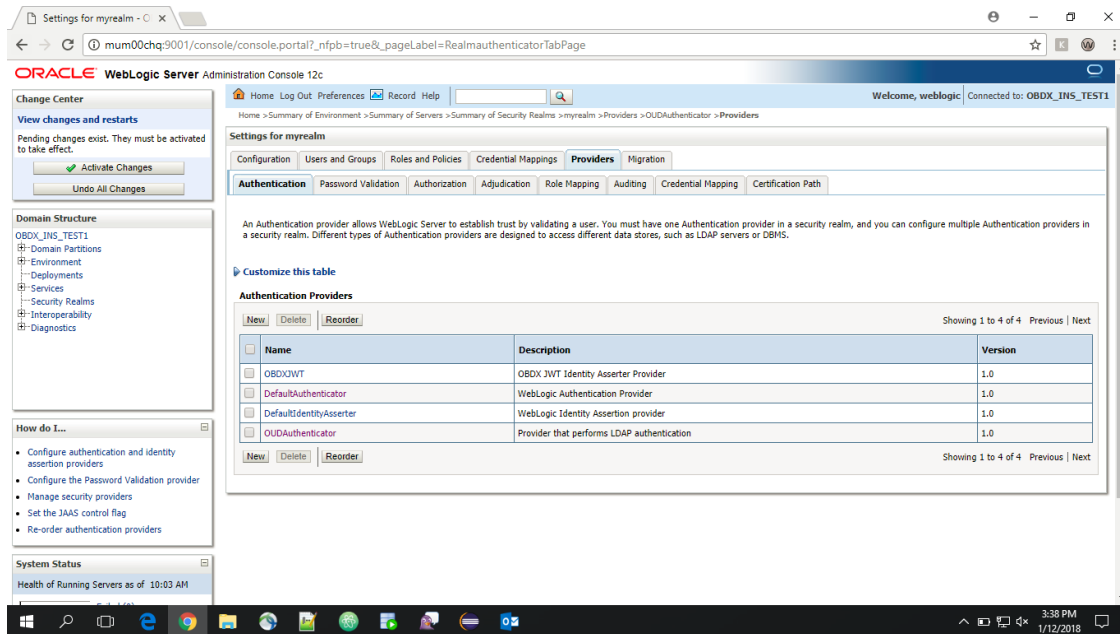
- Now, click on New and enter the below details and click Save.

Name : OUDAuthenticator

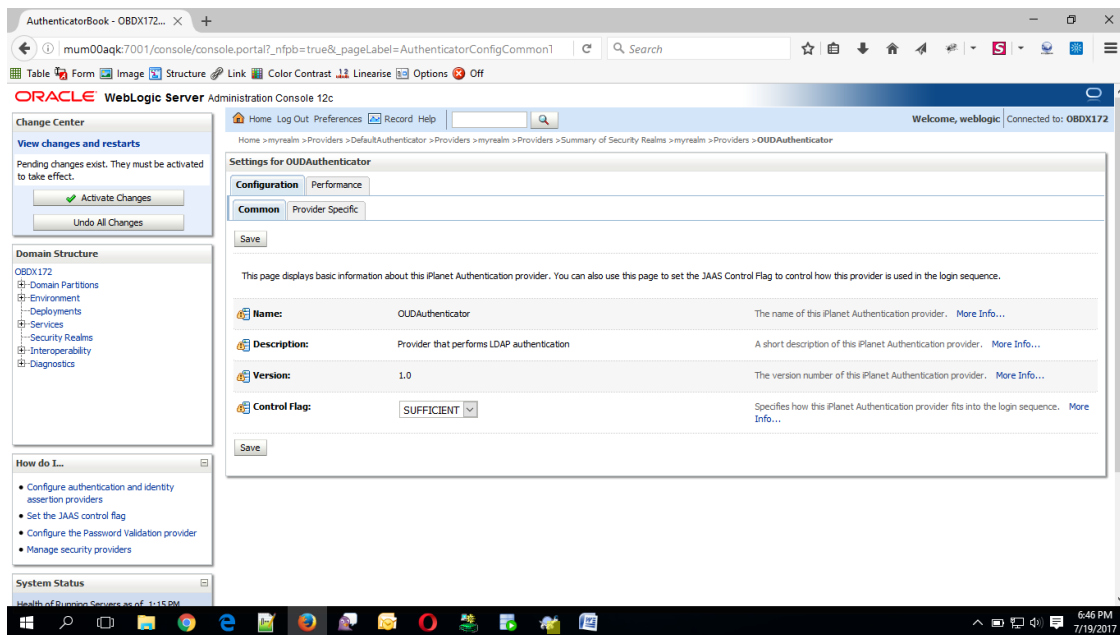
Type : OracleUnifiedDirectoryAuthenticator



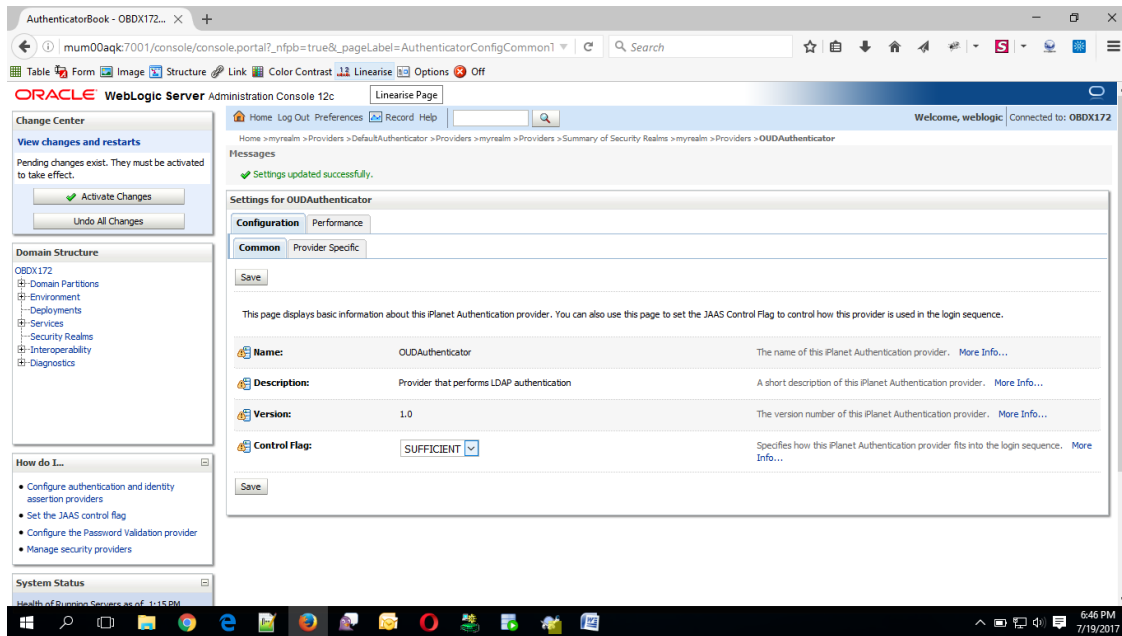
- Click on OK Button.



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



- Click on Save Button.



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

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

AuthenticatorBook - OBDX172... x +

mum00aak7001/console/console.portal?_nfpb=true&_pageLabel=AuthenticatorConfigProvid

Table Form Image Structure Link Color Contrast Linearise Options Off

Activate Changes

Undo All Changes

Domain Structure

OBDX172

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

How do I...?

- Configure authentication and identity assertion providers
- Manage security providers

System Status

Health of Running Servers as of 1:16 PM

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (2)

Configuration Performance

Common Provider Specific

Save

Use this page to define the provider specific configuration for this Planet Authentication provider.

Connection

Host: num00aon.in.oracle.com The host name or IP address of the LDAP server. [More Info...](#)

Port: 1389 The port number on which the LDAP server is listening. [More Info...](#)

Principal: cn=orcladmin The Distinguished Name (DN) of the LDAP user that WebLogic Server should use to connect to the LDAP server. [More Info...](#)

Credential: The credential (usually a password) used to connect to the LDAP server. [More Info...](#)

Confirm Credential: [More Info...](#)

☐ SSL Enabled Specifies whether the SSL protocol should be used when connecting to the LDAP server. [More Info...](#)

Users

User Base DN: dc=in,dc=oracle,dc=com The base distinguished name (DN) of the tree in the LDAP directory that contains users. [More Info...](#)

All Users Filter: If the attribute (user object class) is not specified (that is, if the attribute is null or empty), a default search filter is created based on the user schema. [More Info...](#)

User From Name Filter: (&(uid=%u)(objectclass=) If the attribute (user name attribute and user object class) is not specified (that is, if the attribute is null or empty), a default search filter is created based on the user schema. [More Info...](#)

AuthenticatorBook - OBDX172... x +

mum00aak7001/console/console.portal?_nfpb=true&_pageLabel=AuthenticatorConfigProvid

Table Form Image Structure Link Color Contrast Linearise Options Off

SHOULD SEARCH FOR USERS: [More Info...](#)

User Name Attribute: uid The attribute of an LDAP user object that specifies the name of the user. [More Info...](#)

User Object Class: person The LDAP object class that stores users. [More Info...](#)

☐ Use Retrieved User Name as Principal Specifies whether or not the user name retrieved from the LDAP server should be used as the Principal in the Subject. [More Info...](#)

Groups

Group Base DN: dc=in,dc=oracle,dc=com The base distinguished name (DN) of the tree in the LDAP directory that contains groups. [More Info...](#)

All Groups Filter: An LDAP search filter for finding all groups beneath the base group distinguished name (DN). If the attribute is not specified (that is, if the attribute is null or empty), a default search filter is created based on the Group schema. [More Info...](#)

Group From Name Filter: (&(cn=%g)(objectclass=) An LDAP search filter for finding a group given the name of the group. If the attribute is not specified (that is, if the attribute is null or empty), a default search filter is created based on the group schema. [More Info...](#)

Group Search Scope: subtree Specifies how deep in the LDAP directory tree to search for groups. Valid values are subtree and onelevel. [More Info...](#)

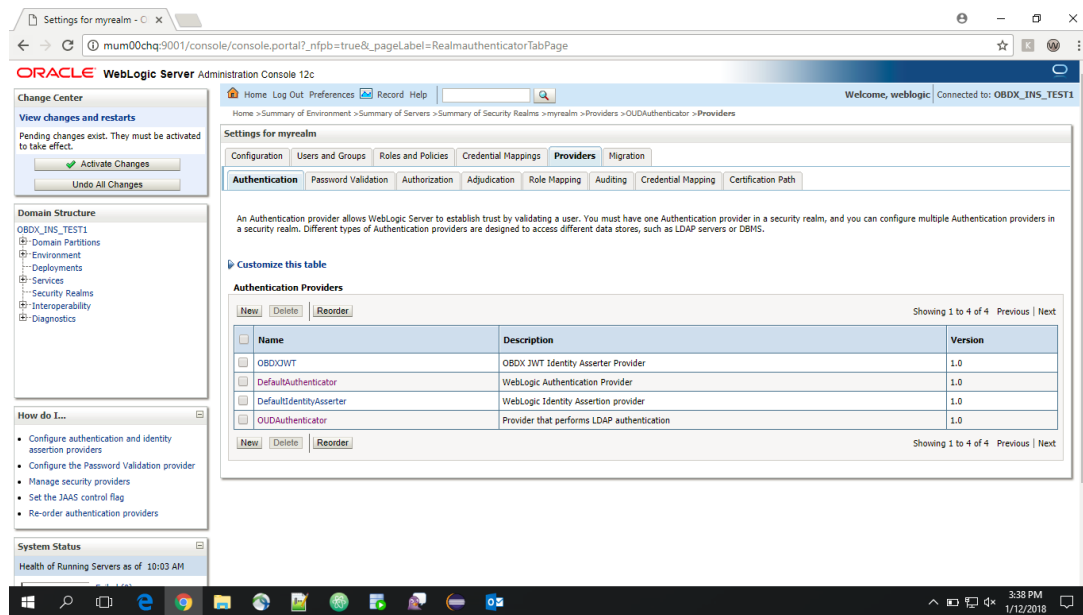
Group Membership Searching: unlimited Specifies whether group searches into nested groups are unlimited, limited or off. Valid values are unlimited, limited and off. [More Info...](#)

Max Group Membership Search Level: 0 Specifies how many levels of group membership can be searched. This setting is valid only if GroupMembershipSearching is set to limited. Valid values are 0 and positive integers. For example, 0 indicates only direct group memberships will be found, and a positive number indicates the number of levels to search. [More Info...](#)

☐ Ignore Duplicate Membership Determines whether duplicate members are ignored when adding groups. The attribute cycles in the Group membership. [More Info...](#)

Static Groups

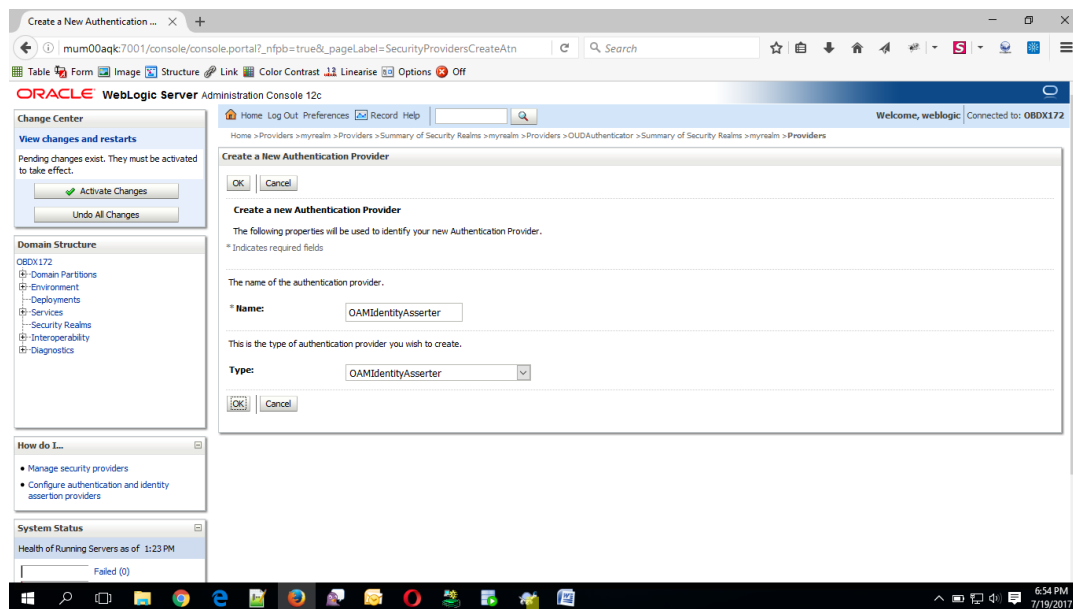
- Click on Save to update the changes.
- Navigate Back to Security Realms > myrealm > Providers



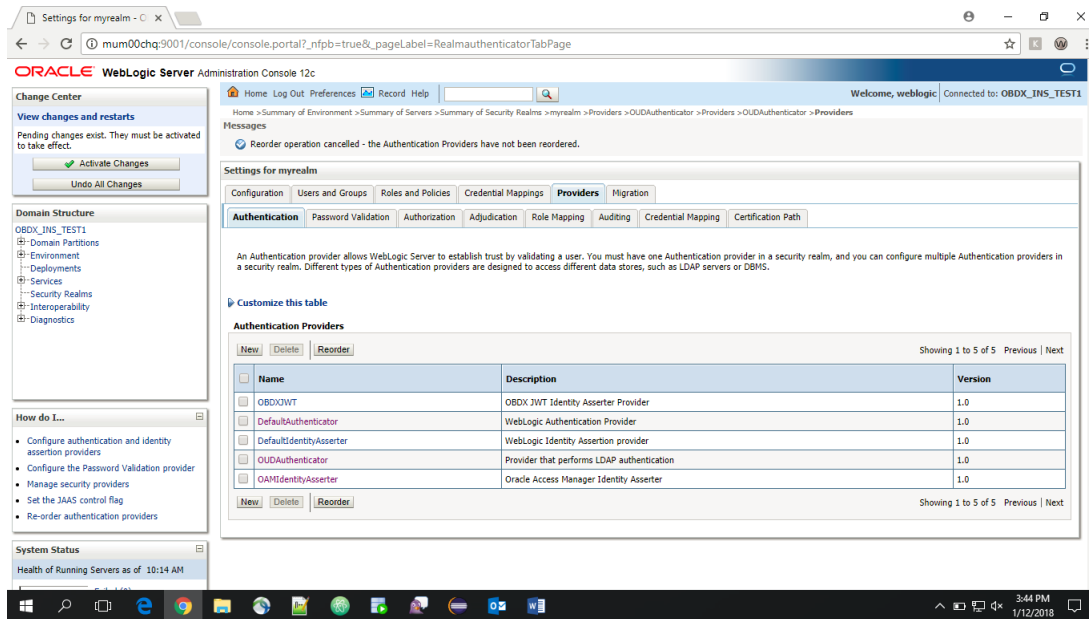
- Now, click on New and enter the below details and click Save.

Name : OAMIdentityAsserter

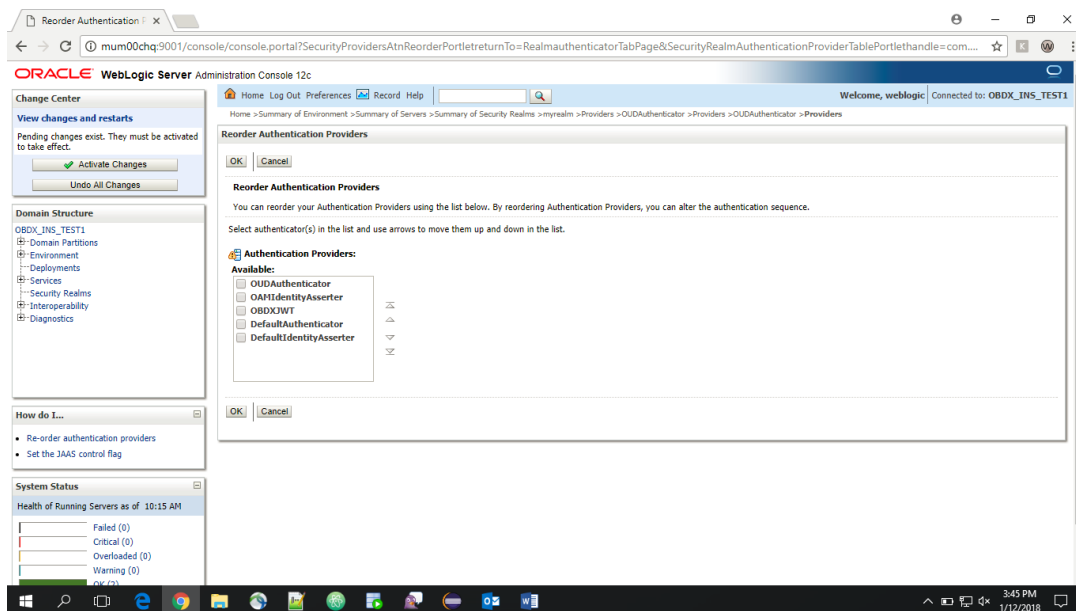
Type : OAMIdentityAsserter



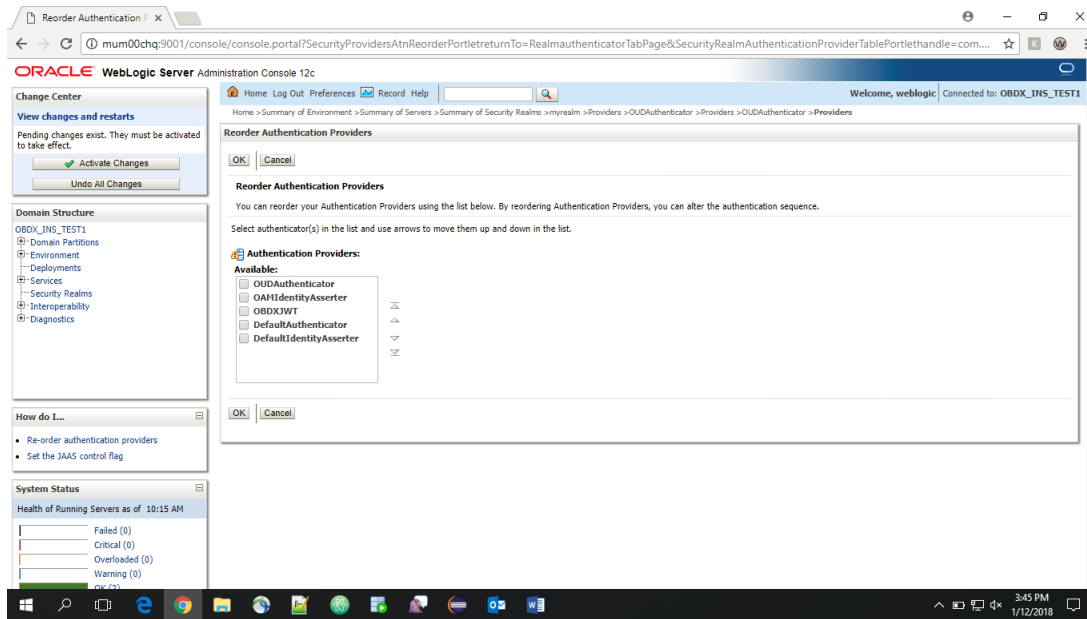
- Click on OK Button.



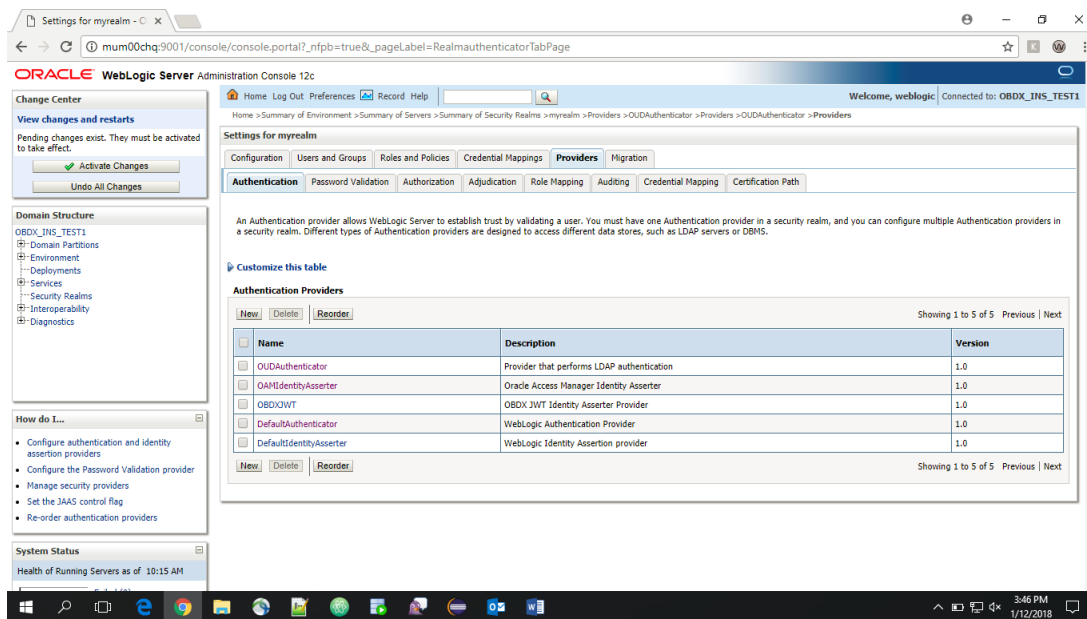
- Click on Reorder Button.



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



- Click on OK Button.



- Set the **OAuth URL** for **OBDXJWT**

Settings for OBDXJWT

Configuration

Common **Provider Specific**

Save

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

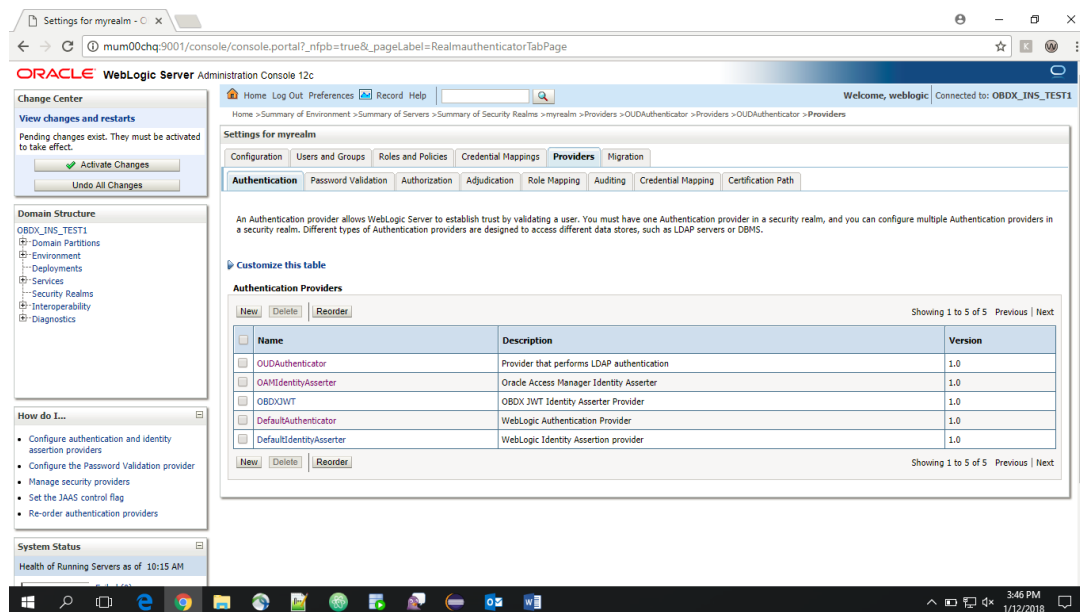
OAuth URL:

☐ **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.



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

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

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


```

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

```

- Now Shutdown the Admin server.
- Now, again start the Admin Server using the command,
 <DOMAIN_PATH>/<DOMAIN_NAME>/bin/startWeblogic.sh

➤ Run the following script into OBDX Schema:

```

update DIGX_FW_CONFIG_ALL_B set prop_value =
'ipm1.0,ORACLEBI12.2.1.2,GENERIC1.0,OAM122130,LOUD1.0' where prop_id = '01' and category_id
= 'extxfacadapterconfig';

```

commit;

- Restart Managed Server

Verification

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

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with 'View changes and restarts' and 'Lock & Edit' buttons, and a 'Domain Structure' tree. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Users' sub-tab is selected. A message states: 'This page displays information about each user that has been configured in this security realm. Some results are not displayed because there are too many matches. Please customize this table to specify more specific criteria. Note: The authentication provider named OAMIdentityAsserter does not support viewing or managing its users through the WebLogic console.' Below this is a table titled 'Users (Filtered - More Columns Exist)' showing a list of users with columns for Name, Description, and Provider. The table lists users like '000800', '000801', '1207payday1@o.com', etc., all with 'OUD' as the provider.

The screenshot shows the Oracle WebLogic Server Administration Console with the 'Groups' sub-tab selected under the 'Users and Groups' tab. A message states: 'This page displays information about each group that has been configured in this security realm. Note: The authentication provider named OAMIdentityAsserter does not support viewing or managing its groups through the WebLogic console.' Below this is a table titled 'Groups' showing a list of groups with columns for Name, Description, and Provider. The table lists groups like 'AdminChannelUsers', 'AdminChecker', 'Administrator', 'Administrators', 'AdminHaker', 'AppTesters', 'AuthAdmin', 'Checker', and 'CorporateAdminChecker', with providers including 'DefaultAuthenticator' and '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 OBTFFPM 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.

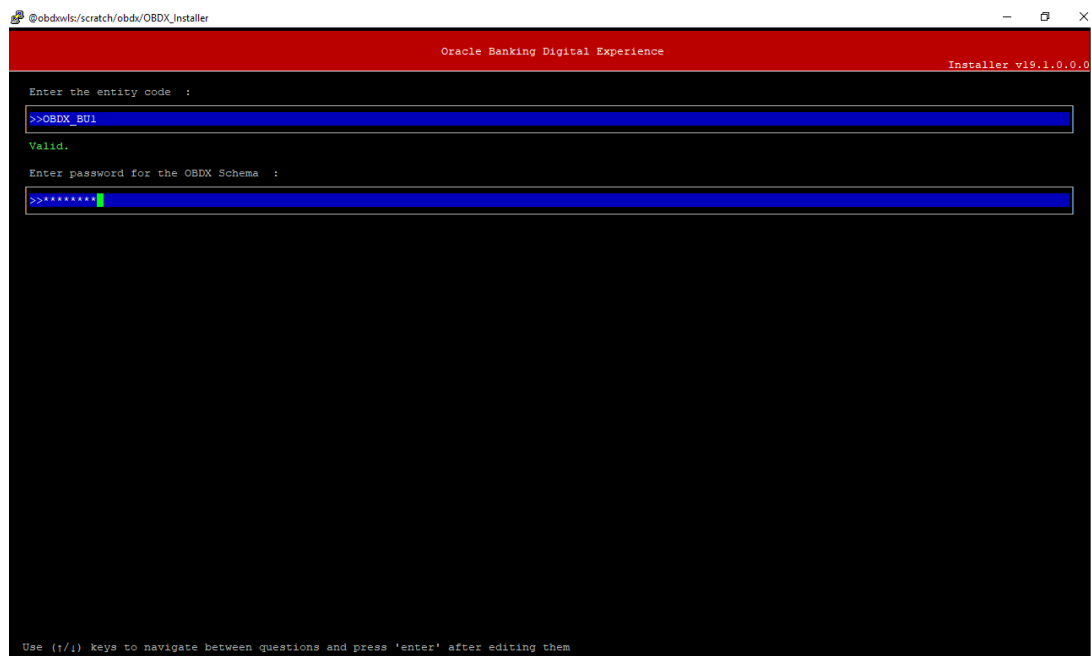
- From your terminal navigate to <OBDX INSTALLER DIR>
- Enter the following command

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
- OBIX 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:

Oracle Banking Digital Experience Installer v19.1.0.0.0

Enter the OBPM143 DB hostname :

>>

Enter the OBPM143 DB port :

>>

Enter the OBPM143 SID :

>>

Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :

>>

Enter the username with 'sys' privileges :

>>

Enter password for the user with sys privileges :

>>

Enter existing weblogic admin password :

>>

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

Oracle Banking Digital Experience Installer v19.1.0.0.0

Enter the OBPM143 DB hostname :

>>muma012.in.oracle.com

Valid.

Enter the OBPM143 DB port :

>>1520

Valid.

Enter the OBPM143 SID :

>>obdkhat.in.oracle.com

Valid.

Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :

>>TBS_DIR

Valid.

Enter the username with 'sys' privileges :

>>sys

Valid.

Enter password for the user with sys privileges :

>>*****

Valid.

Enter existing weblogic admin password :

>>*****

Valid.

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

Enter below details:

- Hostname of the 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

Oracle Banking Digital Experience Installer v19.1.0.0.0

Enter the existing OBPM143 host schema name :

>>

Enter the password for existing OBPM143 host schema :

>>

Enter new OBPM143 B1A1 schema name :

>>

Enter new schema password :

>>

Enter country code :

>>

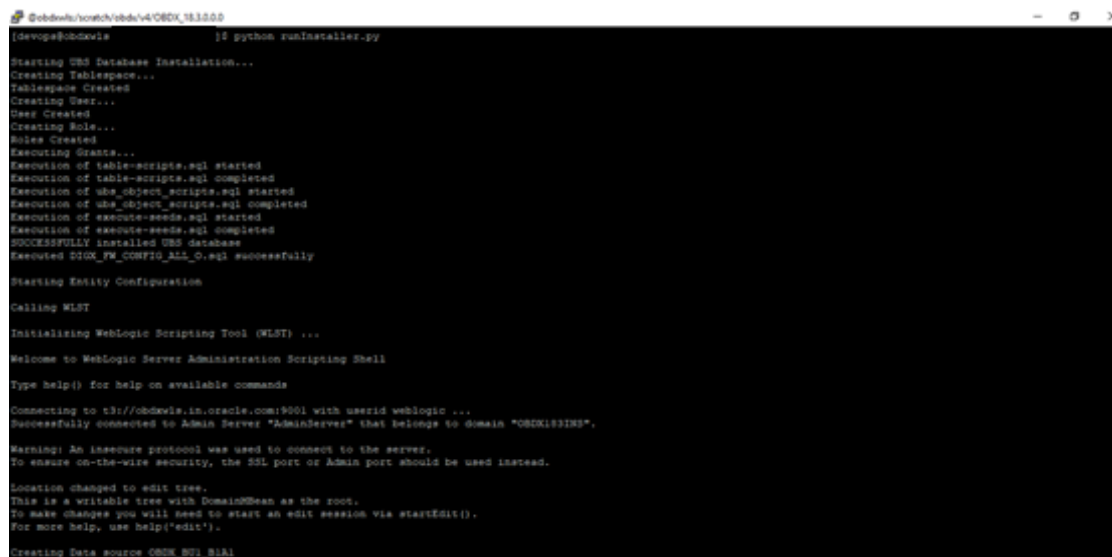
Use (t/|) keys to navigate between questions and press 'enter' after editing them

Enter below details:

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

Installation Status in case of UBS / OBPM

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



```

@obdwls/omw/obdw/4/OSDK 113222
[devops@obdwls ~]$ python runinstaller.py

Starting UBS Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Role Created
Executing Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of uhs_object_scripts.sql started
Execution of uhs_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS database
Executed OSDK_FM_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://obdwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OSDK113222".

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 OSDK_WSI_BIAI

```

When the installation completes, the below message is displayed

```

@obdxwls/scratch/obdx/4/OBDX_183INS
Execution of uba_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 OBDX_BUI_BIAI
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_BIAI 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=OBDX_BUI
(devops@obdxwls OBDX_Installer)$ export SCHEMA_PASS=welcomel
(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_BUI 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:

Oracle Banking Digital Experience
Installer v19.1.0.0.0

Enter the FCORE DB hostname :

Enter the FCORE DB port :

Enter the FCORE SID :

Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :

Enter the username with 'sys' privileges :

Enter password for the user with sys privileges :

Enter existing weblogic admin password :

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

Oracle Banking Digital Experience
Installer v19.1.0.0.0

Enter the FCORE DB hostname :
 muma012.in.oracle.com
Valid.

Enter the FCORE DB port :
 1520
Valid.

Enter the FCORE SID :
 obdxst.in.oracle.com
Valid.

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

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

Enter password for the user with sys privileges :

Valid.

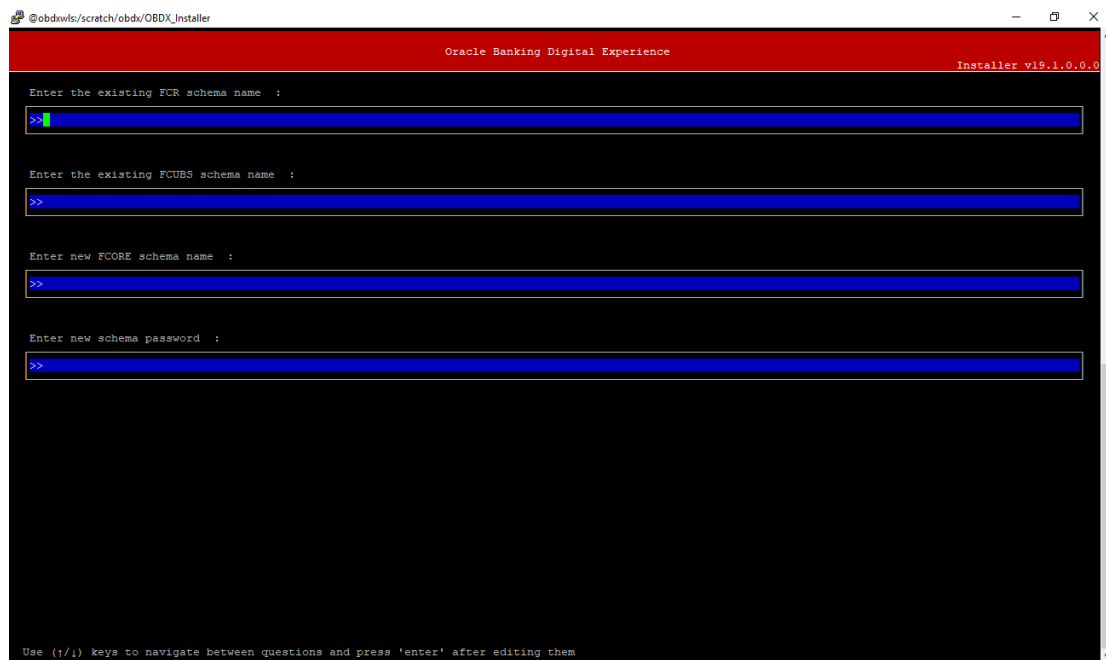
Enter existing weblogic admin password :

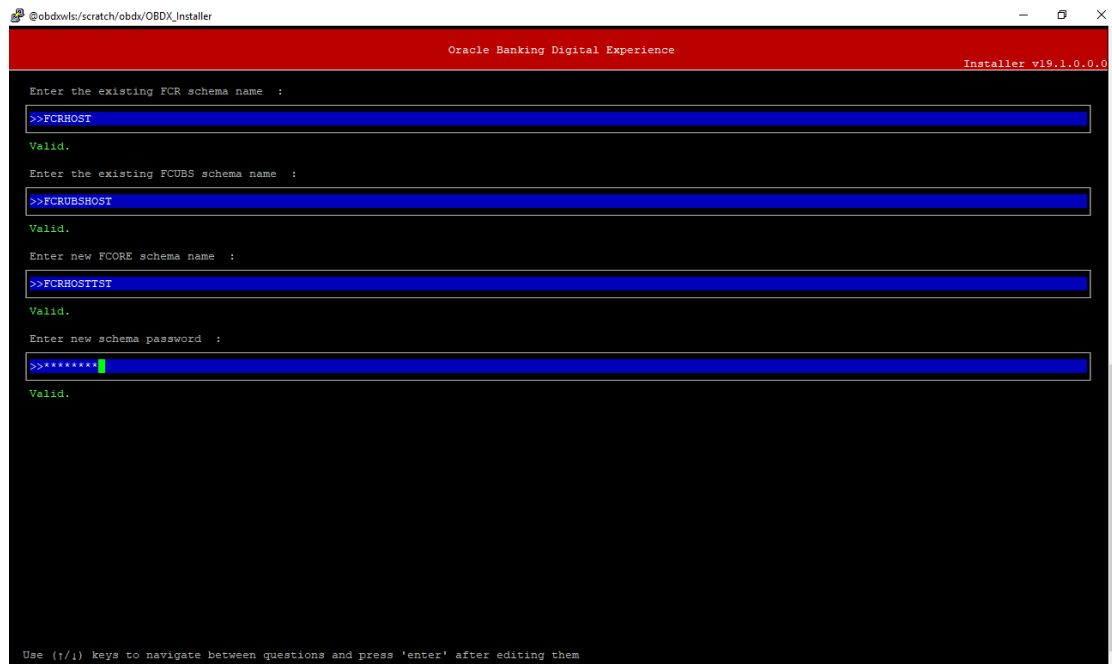
Valid.

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

Enter below details:

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





Enter below details:

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

Installation status for FCORE Add entity

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

```

[devops@ OBDX_Installer]$ python runInstaller.py --silent --addEntity
Password validated for OBDX_103INS
Password validated for sys
Starting FCORE Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Roles Created
Executing Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of fcore_object_scripts.sql started

```

```

@obdxwls/scratch/obdx/OBDX_Installer
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_BUI_BIAl
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDX_BUI_BIAl created successfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.
[devops@obdxwls OBDX_Installer]$

```

No additional steps/ configuration are required.

Post successful installation refer to “Section 8: Post Installation steps” for manual steps to be performed for OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (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=hostname.in.oracle.com
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_PORT=1520
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_SID=obdxdb.in.oracle.com
OBDX_Installer]$ export ENTITY_EHMS_DBA_DIRECTORY_NAME=TBS_DIR
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_SYS_USER=sys
OBDX_Installer]$ export ENTITY_EHMS_DATABASE_SYS_PASS=welcome1
OBDX_Installer]$ export ENTITY_EHMS_SCHEMA_NAME=welcome1
OBDX_Installer]$ export ENTITY_EHMS_SCHEMA_PASS=welcome1
OBDX_Installer]$ export ENTITY_EHMS_HOST_SCHEMA_NAME=FCUBS140
OBDX_Installer]$ export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=welcome1
OBDX_Installer]$ export WLS_DOMAIN_PASS=welcome1
OBDX_Installer]$ export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=FCUBS140
OBDX_Installer]$ export ENTITY_EHMS_CCY=GB
OBDX_Installer]$ python runInstaller.py --silent --addEntity
  
```

Below parameters should be set in environment variables

	Parameter	Description	Example
Environment variables to set for flavor: FCORE 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 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=OB DXEHMS
	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=EHMSHOST
	ENTITY_EHMS_HOST_SCHEMA_NAME_PASS **This parameter is only required for UBS & OBPM Host	Password of existing HOST EHMS schema (Existing)	export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=ehmshst
	WLS_DOMAIN_PASS	Password for Weblogic admin console	export WLS_DOMAIN_PASS=weblogic182
	ENTITY_EHMS_CCY	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_DBA_DIRECTORY_NAME=TBS_DIR
[devops@ /]$ export ENTITY_EHMS_DATABASE_SYS_USER=sys
[devops@ /]$ export ENTITY_EHMS_DATABASE_SYS_PASS=devops@sys
[devops@ /]$ export ENTITY_EHMS_SCHEMA_NAME=OBDXEhms
[devops@ /]$ export ENTITY_EHMS_SCHEMA_PASS=devops#ehms
[devops@ /]$ export ENTITY_EHMS_HOST_SCHEMA_NAME=FCUBS140
[devops@ /]$ export ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=FCUBS140HST
[devops@ /]$ export WLS_DOMAIN_PASS=weblogic182
[devops@ /]$ export ENTITY_EHMS_CCY=GB
[devops@ /]$ python runInstaller.py --silent --addEntity

```


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

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

```
@obdwlz/scratch/obdx/OBDX_Installer
Execution of uba_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS141 database
Executed DIGX_FW_CONFIG_ALL_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://obdwlz.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_BIAl
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDX_BUI_BIAl created successfully.

Exiting WebLogic Scripting Tool.

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

When the installation completes, the below message is displayed

```
@obdwlz/scratch/obdx/OBDX_Installer
Execution of uba_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
SUCCESSFULLY installed UBS141 database
Executed DIGX_FW_CONFIG_ALL_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://obdwlz.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_BIAl
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDX_BUI_BIAl created successfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.
[devops@obdwlz 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)

```
(Gervape[ ~ - OSDX_Installer]$ python runInstaller.py --silent --addEntity
Password validated for OSDX_183INS
Execution of DB script for OSDX_BUI started
Executed DIOX_FW_CONFIG_ALL_0.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:



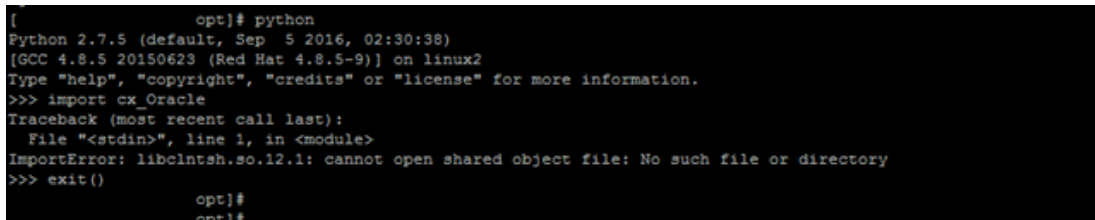
Try one of the following:

- 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:



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_ACVMS_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_cltbs_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/FCOB_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 13:45:39,980 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTUI_DOWNLOADPARAMS.sql successful
2017-07-13 13:45:40,174 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/SW_MATL_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/MSTENTITYUSERTYPELANG.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 obdxdb.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%.log
java.util.logging.FileHandler.pattern = <logs_path>/Task.log
java.util.logging.FileHandler.limit = 50000
java.util.logging.FileHandler.count = 1
#java.util.logging.FileHandler.formatter = java.util.logging.XMLFormatter
java.util.logging.FileHandler.formatter = java.util.logging.SimpleFormatter
java.util.logging.SimpleFormatter.format= [%1$tc] %4$s: %2$s - %5$s %6$s%n

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

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

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

```
java -jar -Djava.util.logging.config.file='<logs.properties>' com.ofss.digx.utils.feed.data.task.jar "Task.csv"
"oracle.jdbc.OracleDriver,<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 widgetName: 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](#)