

Oracle Banking Digital Experience

Installation Guide
Release 18.3.0.0.0

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ORACLE®

Installation Guide

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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	36
9.	OBDX Product Verification.....	76
10.	Configuration for OUD/OAM	79
11.	Multi Entity	93
12.	Multi-entity installation using Silent Mode.....	103
13.	OBDX Product Security	108
14.	OBDX Product – Best Practice	109
15.	JPA and OBDX multi-cluster	110
16.	PDF Password configuration	111
17.	Troubleshoot Overview	112
18.	Wallet Configuration	117

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 18.3.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Licensing Guide
- Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual
- Oracle Banking Digital Experience OBP Base Setup and Configuration
- Oracle Banking Digital Experience OBP US LZN Setup and Configuration
- Oracle Banking Digital Experience OFSLL Setup Configuration
- Oracle Banking Digital Experience Origination Social Media Integration

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

2. Introduction

2.1 Purpose of the Document

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

It includes:

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

[Home](#)

3. Prerequisites

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

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

Installer Pre-requisite verification

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

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

Oracle Instant client

Step 1: Login using root user.

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

```
rpm -qa | grep oracle
```

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

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

Python:

Step 1: Execute python -V command

```
python -V
```

```
[          ]# python -V
Python 2.7.5
```

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

cx_Oracle & Urwid:

Step 1: Execute python command

python

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

Step 2: Import Urwid and check version

import urwid (Press Enter)

urwid.__version__

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

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

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

Step 3: Similarly import cx_Oracle and check version

import cx_Oracle (Press Enter)

cx_Oracle.version

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

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

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

[Home](#)

4. Installation

Pre-Installation

- Install all the prerequisite software and packages mentioned above

Steps of Installation

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

```

/scratch/obdxdevops/jenkins/UBS_properties/installer.properties - obdxdevops@mum00bzt - Editor - WinSCP
#####
# 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 needs to be installed.
INSTALLATION_HOME=/home/devops/obdx

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

#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 Administrative console.
WLS_DOMAIN_ADMIN_USER=weblogic

#Name of OBDX cluster.
WLS_CLUSTER_NAME=InstallerTest
<

```

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 (for e.g.: If user is about to install OBDX for OBP host; then WLS_JMS_EXTSYSRECEIVER_PS and WLS_JMS_EXTSYSENDER_PS since not used).

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_DIRECTORY_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_DATABASESYS_USER	Enter the username with 'sys' privileges	sys
	EHMS_DATABASESID	Enter the EHMS database Service Name	obdxehms.in.oracle.com
	EHMS_HOST_SCHEMA_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_FCUBS_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 wlsrserver,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 clip1etc.	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 (All flavor except OBP)	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 (All flavor except OBP)	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>/

```
[devops@obdxwls OBDX_Installer]$ pwd
/scratch/OPSFE/OBDX_Installer
[devops@obdxwls 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
[devops@obdxwls OBDX_Installer]$
```

- Enter the following command

python runInstaller.py

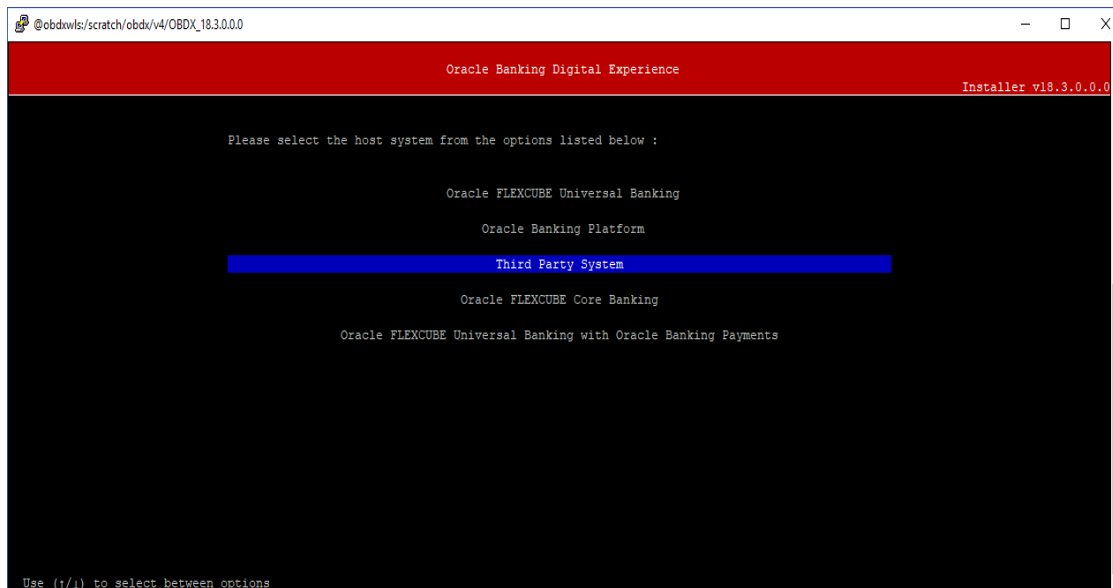
Select the appropriate type of Installation



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

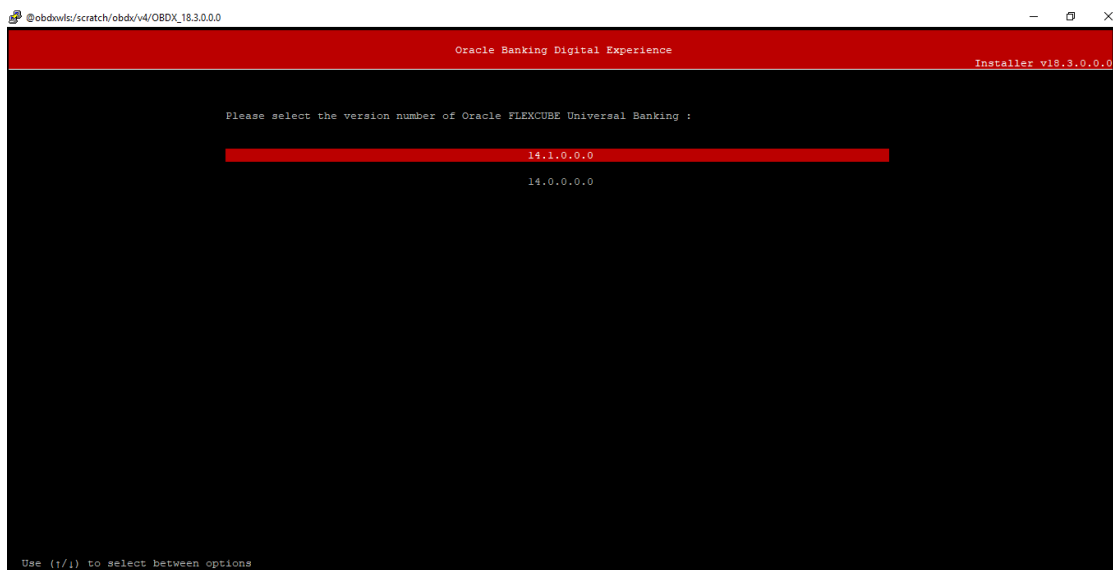
Post selection of installation type.

Select the appropriate host system for Installation

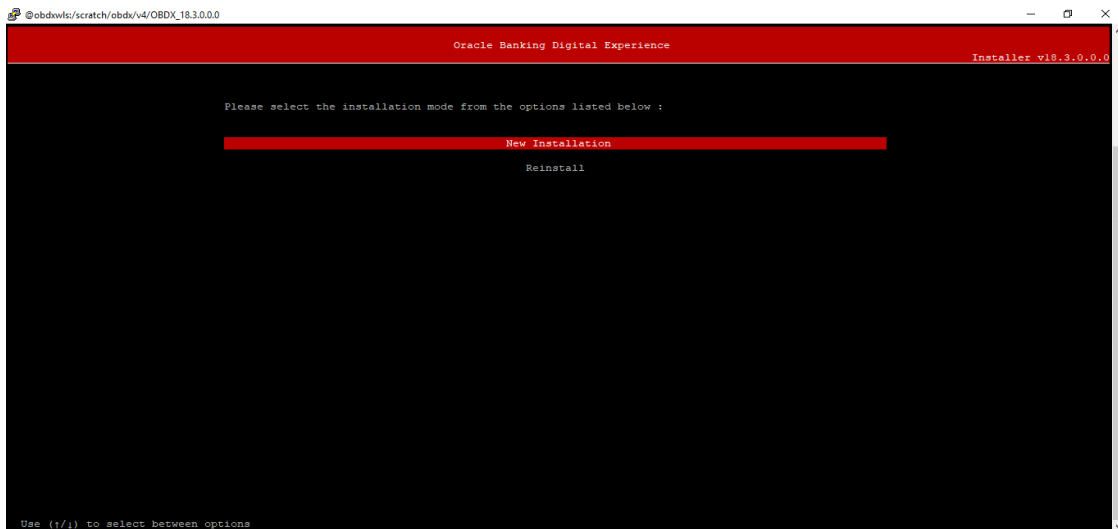


Oracle FLEXCUBE Universal Banking (OBDX with UBS)

Select the version of UBS HOST system from available options



Post UBS HOST version selection, Select Installation mode



Mode of Installation - New Installation

- New installation

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

Below screens would appear to taken end-user input



Enter below passwords:

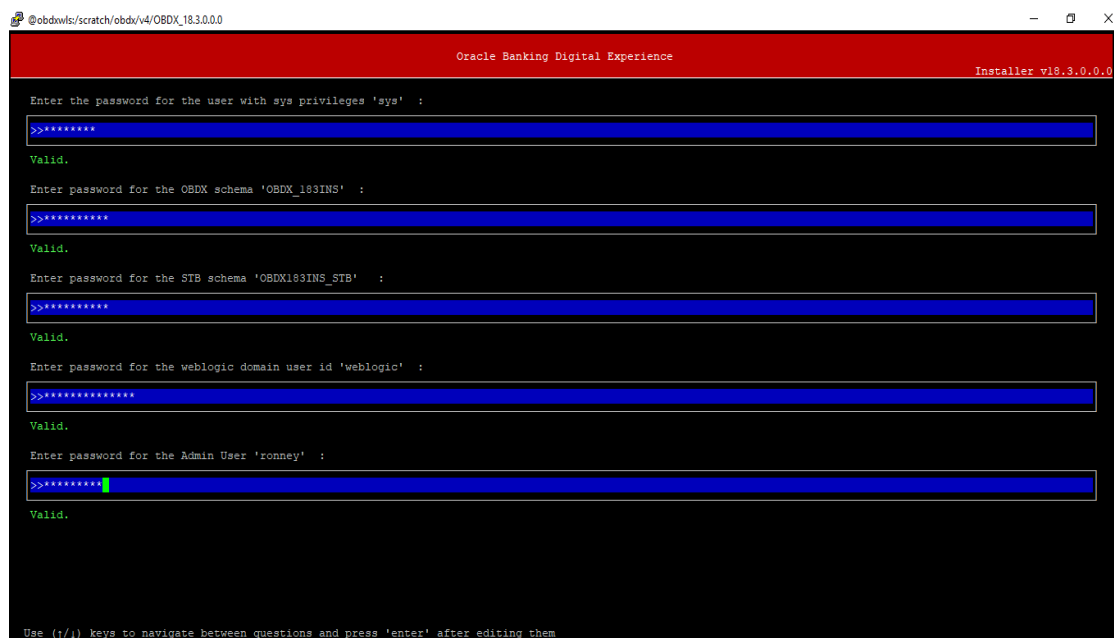
- SYS privilege user password where OBDX schema would be created
- OBDX schema password
- OBDX STB schema password
- Weblogic console administrator user password
- SYS privilege user password where UBS host schema exists
- Existing UBS HOST schema password
- New OBDX EHMS schema password
- Password for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

Oracle Banking Platform (OBDX with OBP)

No additional input required. Screen is same as available in Third Party System.

Third Party System (OBDX with THP)

Post Third Party System selection, enter the required credentials details



Enter below passwords:

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

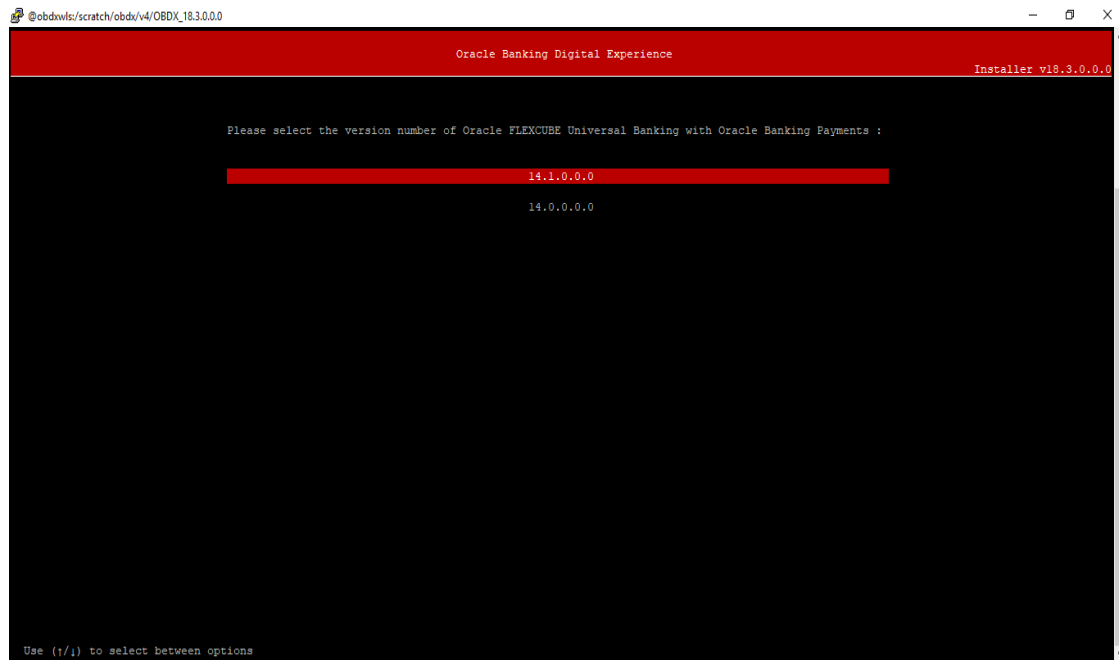
Post Oracle FLEXCUBE Core Banking, enter the required credentials details

**Enter below passwords:**

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

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

Select the version of UBS HOST system from available options

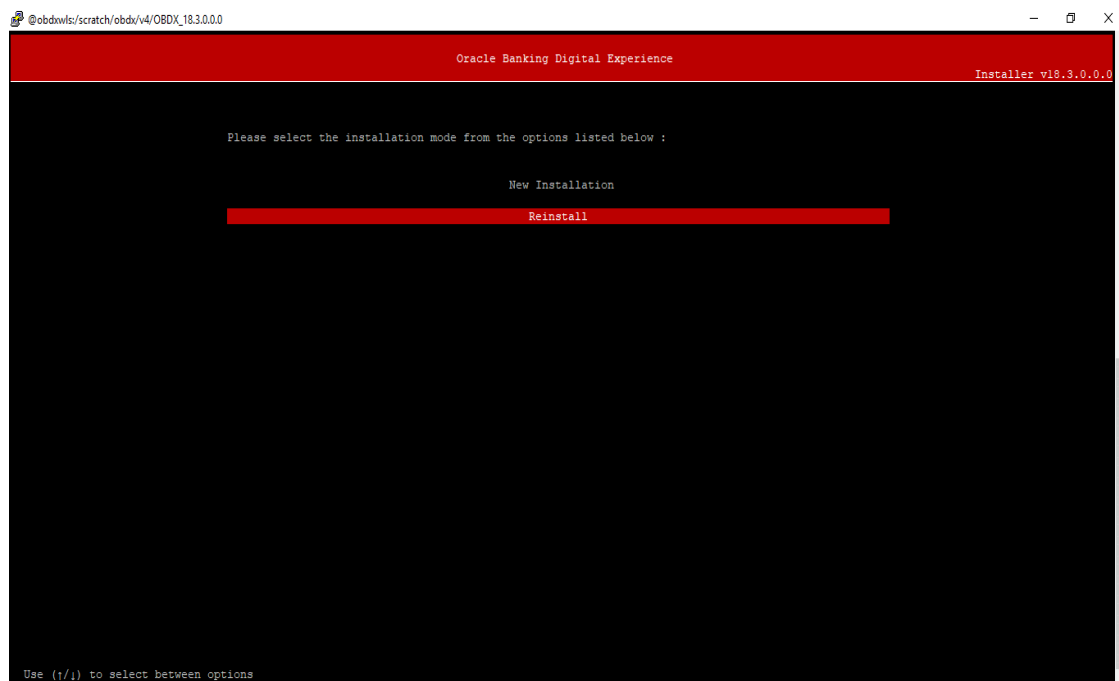


Post selection of Oracle FLEXCUBE Universal Banking with Oracle Banking Payments version, enter the required credentials details



Enter below passwords:

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

Mode of Installation – Reinstall

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

Pre-requisites

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

Key pointers

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

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

Installation Status

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

```
(devops@ OBDX_18.3.0.0.0) python runInstaller.py
>>> STARTING OBDX PRODUCT INSTALLATION <<<<

Starting OBDX Database Installation with UBS141 FLAVOR
Tablespace with name OBDX_183INS and OBDX_AUDIT_183INS exists
Dropping User...
Objects dropped
Schema dropped
Role dropped
User Created
Creating Role...
Role Created
Executing Grants...
Execution of clip_master_script.sql started
Execution of clip_master_script.sql completed
Execution of clip_constraints.sql started
Execution of clip_constraints.sql completed
Execution of clip_seeds_executable.sql started
Execution of clip_seeds_executable.sql completed
Execution of clip_master_generic_rest_script.sql started
Execution of clip_master_generic_rest_script.sql completed
SUCCESSFULLY installed OBDX database

Starting UBS141 Database Installation...
Table space with name TBS_BIAI_183REL exists
Dropping User
Objects dropped
Schema dropped
Role dropped
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

```
@obdxwls/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/obdx/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...
>>> OBX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<
[devops@obdxwls OBDX_18.3.0.0.0]$
```

[Home](#)

5. Installation using Silent Mode

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

What is silent-mode installation?

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

Steps for Silent-Mode Installation

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

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


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

Host	Parameter	Description	Example
Environment variables to set for flavor: FCORE; UBS (14.0.0.0.0 and 14.1.0.0.0 release) OBPM(14.0.0.0.0 and 14.1.0.0.0)	FLAVOUR	Flavour for installation UBS for Oracle FLEXCUBE Universal Banking 14.0.0.0.0 (OBDX with UBS) UBS141 for Oracle FLEXCUBE Universal Banking .14.1.0.0.0 (OBDX with UBS) OBPM for Oracle FLEXCUBE Universal Banking with Oracle Banking Payments 14.0.0.0.0 (OBDX with OBPM) OBPM141 for Oracle FLEXCUBE Universal Banking with Oracle Banking Payments 14.1.0.0.0 (OBDX with OBPM) FCORE for Oracle FLEXCUBE Core Banking 11.7.0.0.0 (OBDX with FCORE)	export FLAVOUR=UBS or export FLAVOUR=UBS141 or export FLAVOUR=OBPM or export FLAVOUR=OBPM141 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=obdx182ehms
	DBAuthPassword	Password for new OBDX Administrator user of OBDX application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obdxadm
Environment	FLAVOUR	Flavour for installation 'OBP' for Oracle Banking Platform 2.6.2.0.0 (OBDX with OBP)'	export FLAVOUR=OBP or export FLAVOUR=OBDX

variables to set for flavor:		'OBDX' for Third Party System 1.0 (OBDX with THP)	
OBDX (Third-party HOST)			
OBP	Mode	Mode of installation. 'New' in-case of a fresh installation of OBDX for the first run on server 'Clean' in-case of an existing OBDX installation that you want to overwrite OR in case of a previously failed installation or re-installation	export MODE=New or export MODE=Clean
	DB_SYS_PASSWORD	Sys user password of OBDX database (Existing)	export DB_SYS_PASSWORD=obdx182sys
	SCHEMA_PASS	Password for new schema on OBDX database	export SCHEMA_PASS=obdx#182
	STBPassword	Password for RCU STB schema	export STBPassword=obdx#stb
	DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadm
	DBAuthPassword	Password for new OBDX Administrator user of OBDX application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obdxadm

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

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

Installation Status

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

```
[devops@ ~]$ OBXK_Installer$ python runinstaller.py --silent --base
Password validated for sys
Password validated for sys
Password validated for OBPM141

>>> STARTING OBXK PRODUCT INSTALLATION <<<<

Starting OBXK Database Installation with OBPM141 FLAVOR
Tablespace with name OBXK_1031NS and OBXK_AUDIT_1031NS exists
Dropping User...
Objects dropped
Schema dropped
Role dropped
Creating User...
User Created
Creating Role...
Role Created
Executing Grants...
Execution of clip_master_script.sql started
Execution of clip_master_script.sql completed
Execution of clip_constraints.sql started
Execution of clip_constraints.sql completed
Execution of clip_seeds_executable.sql started
Execution of clip_seeds_executable.sql completed
Execution of clip_master_generic_rest_script.sql started
Execution of clip_master_generic_rest_script.sql completed
SUCCESSFULLY installed OBXK database

Starting OBPM141 Database Installation...
Table space with name TBS_BIAl_OBPM141_1031NS 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
/OBXK_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/OBXK_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/OBXK_
Installer/installables/app/components/obdx/deploy/BatchResourceAdapter.ear], to obdx_cluster .>
<Dec 16, 2018 7:20:14 AM UTC> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, AuditMDBEAR [archive: /scratch/obdx/OBXK_Installe
r/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.offss.digx.app.connector [archive: /scratch/obdx
/OBXK_Installer/installables/app/components/obdx/deploy/com.offss.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/OBXK_I
nstaller/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/OBXK_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/OBXK_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/OBXK_In
staller/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
BXK_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/OBXK_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/OBXK_Installe
r/installables/app/components/ubs/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, ExtxFaceSimulatorMDB [archive: /scratch/obdx/OBXK_
Installer/installables/app/components/ubp/deploy/ExtxFaceSimulatorMDB.ear], to obdx_cluster .>
Applications deployed successfully
Starting AdminServer
AdminServer started
Successfully created and configured OBDM1031NS 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...

>>> OBXK PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<

[devops@obdxkx1s OBXK_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 OBP;; FCORE; OBPM; OBPM141; UBS; UBS141
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 <hr/>
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 (14.0.0.0.0 and 14.1..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 Banking Platform (OBDX with OBP)

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

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		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 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	√	√
	Weblogic Setup and Configuration	RCU schema and Create Domain	√	√ (drop and re-create RCU schema's)

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		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	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 OBPM HOST specific scripts	√	√

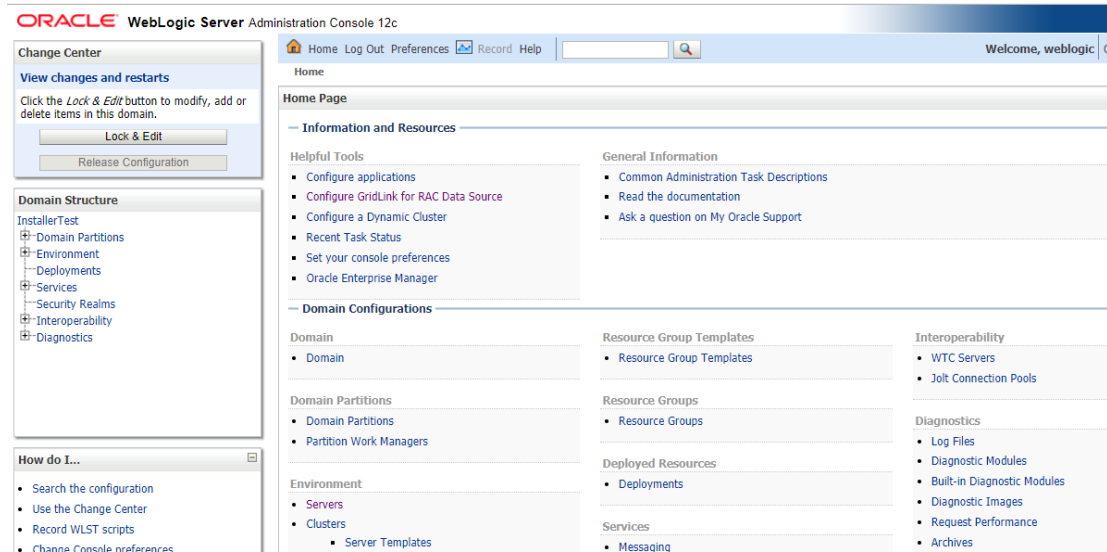
Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Compile Schema	√	√
		Policy Seeding	√	√
	EHMS DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and re-create objects)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
		RCU schema and Create Domain	√	√ (drop and re-create RCU schema's)
	Weblogic Setup and Configuration	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](#)

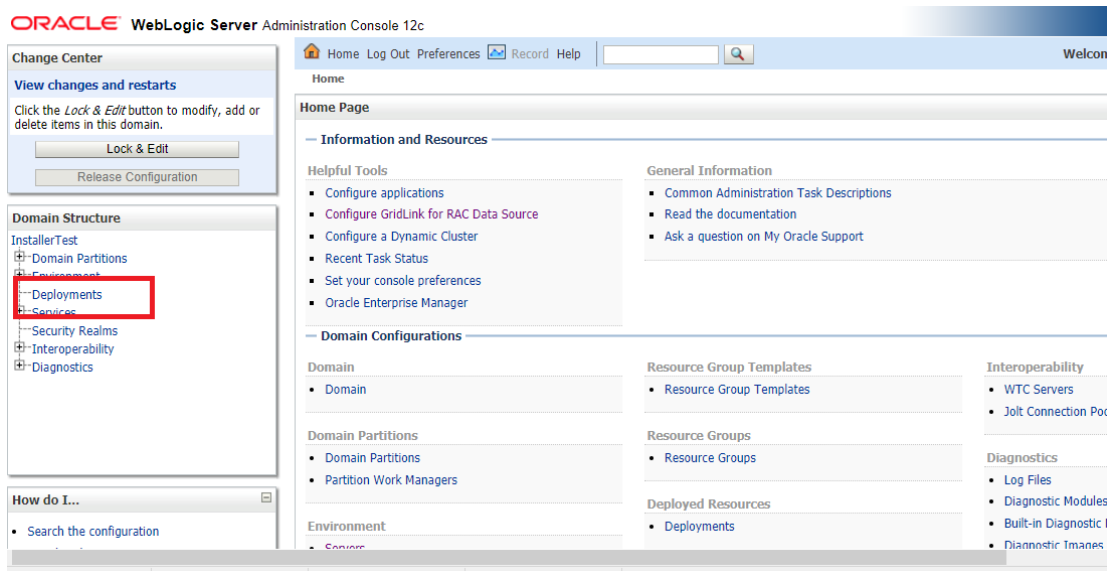
8. Post Installation Steps

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.

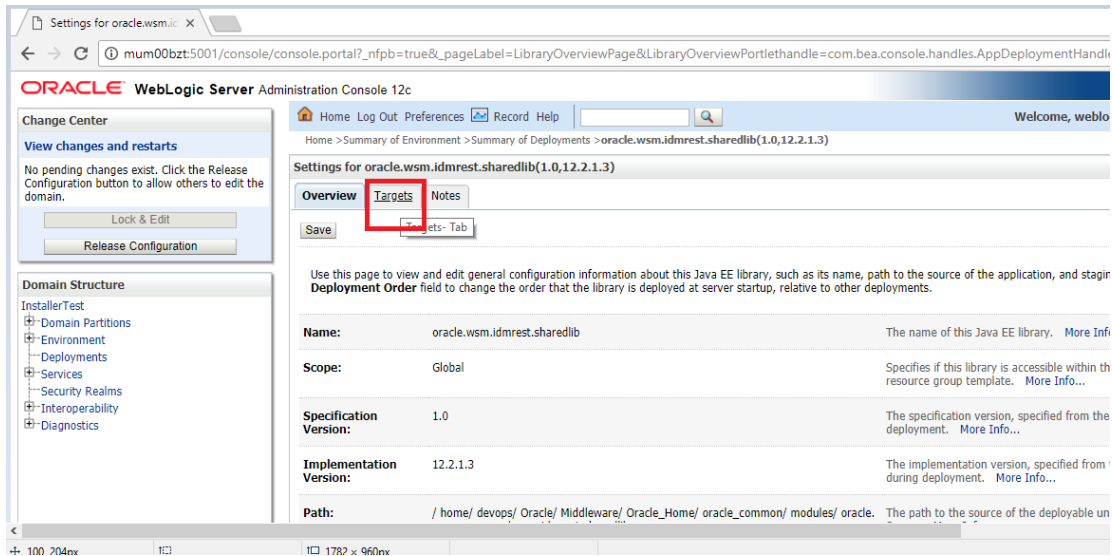
<input type="checkbox"/>	oracle.bi.jbips(11.1.1.0.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.dconfig-infra(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.jrf.system.filter	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.jsp.next(12.2.1,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.pwdgen(2.0,12.2.1)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.sdp.client(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.sdp.messaging(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.webcenter.composer(2.0,12.2.1)	Active		Library	AdminServer	Global		300
<input type="checkbox"/>	oracle.webcenter.skin(2.0,12.2.1)	Active		Library	AdminServer	Global		300
<input type="checkbox"/>	oracle.wsm.console.core.view(1.0,12.2.1.3)	Active		Library	AdminServer	Global		311
<input type="checkbox"/>	oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	oracle.wsm.seedpolicies(2.0,12.2.1.3)	Active		Library	AdminServer	Global		100
<input type="checkbox"/>	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**

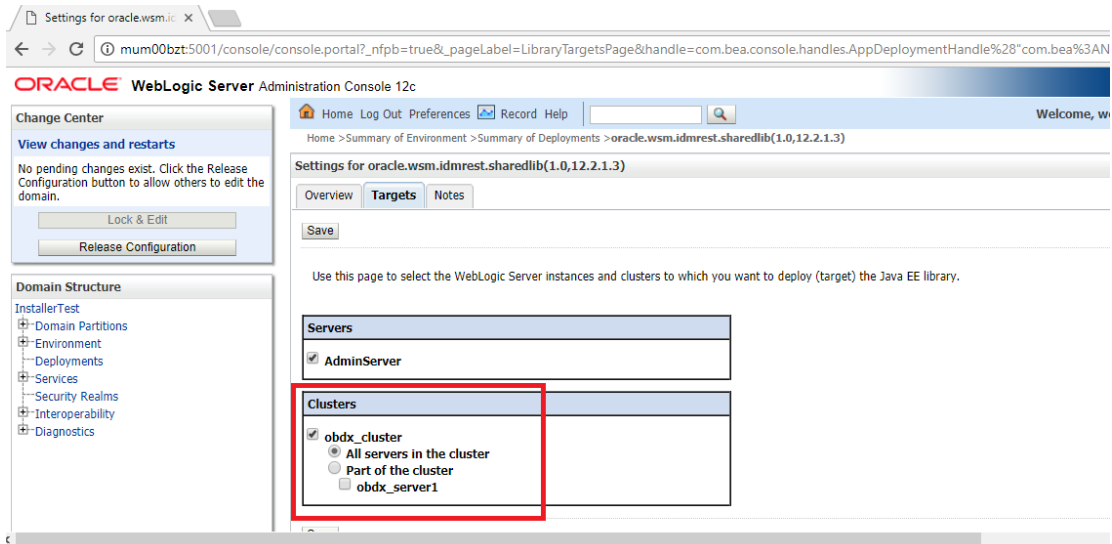
The screenshot shows the Oracle WebLogic Server Administration Console. In the 'Change Center' on the left, the 'Lock & Edit' button is highlighted with a red box. The main content area shows the 'Settings for oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)' page. The 'Overview' tab is selected, displaying configuration details for the library.

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 deployment. More Info...

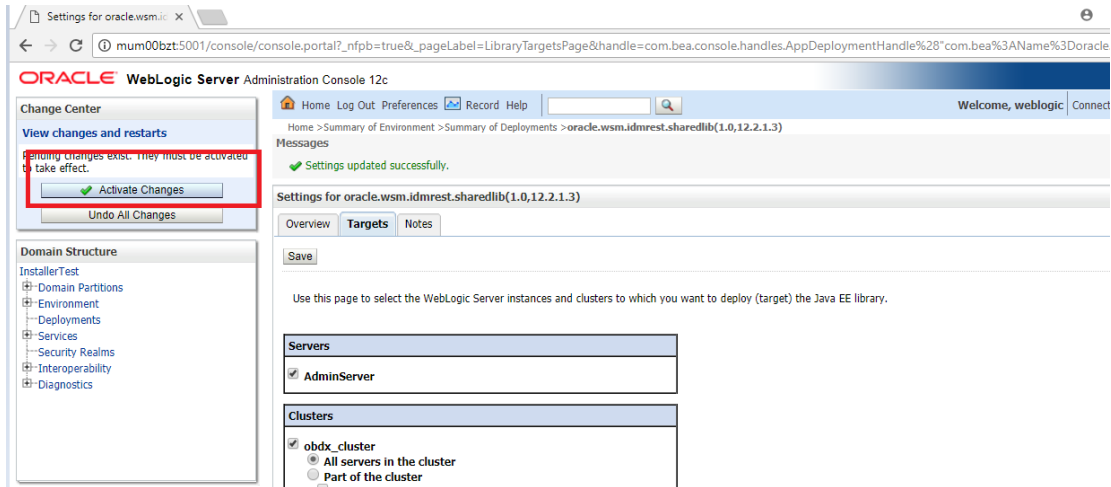
Click on **Targets** Tab



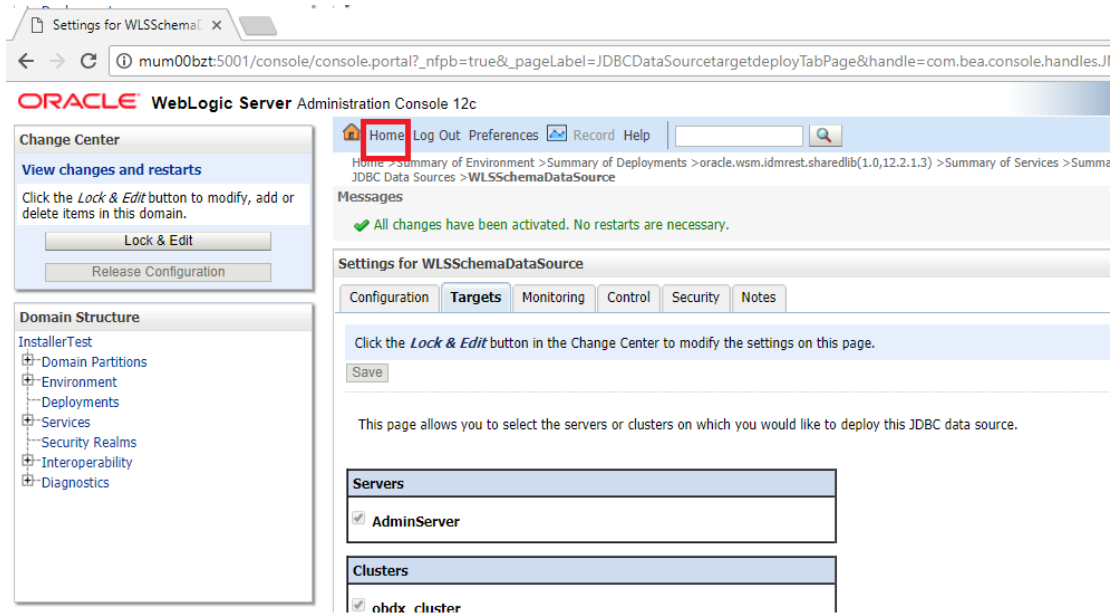
In the Servers box, select **Cluster** if it is not already selected and click **Save**.



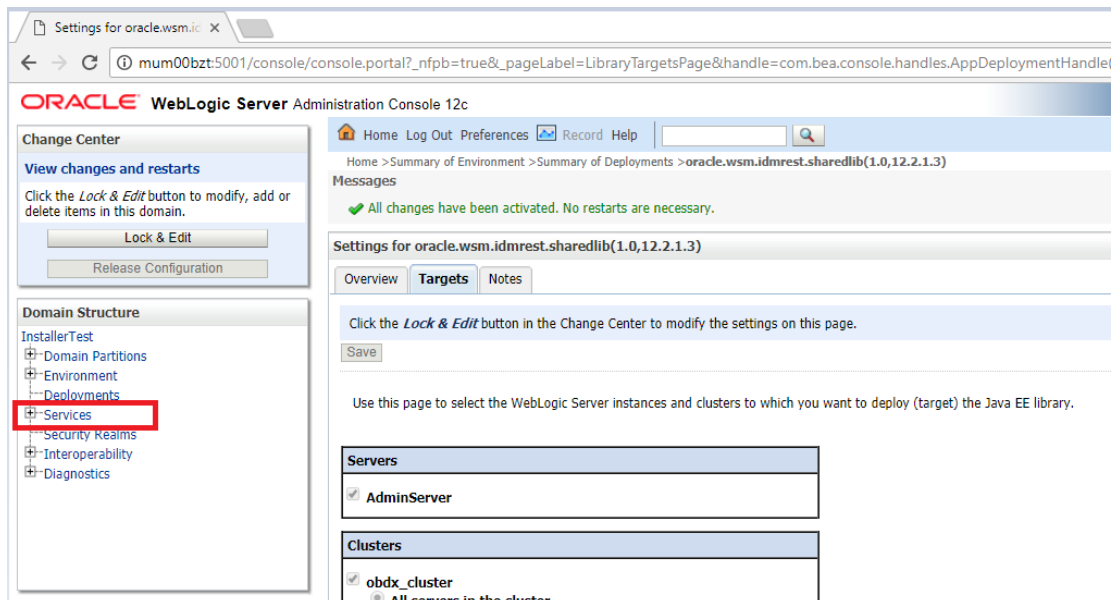
Click on **Activate Changes**.



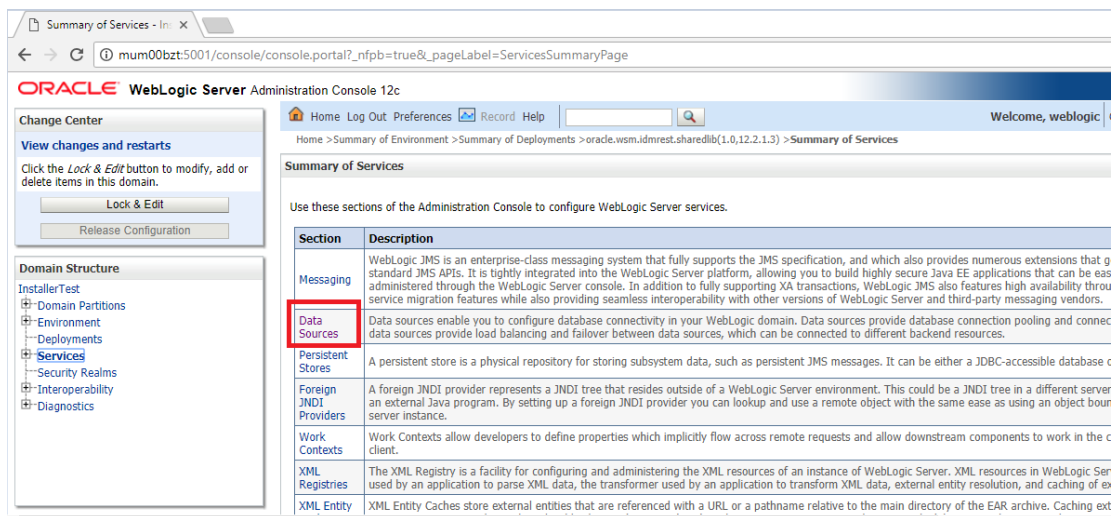
Click on **Home Tab**



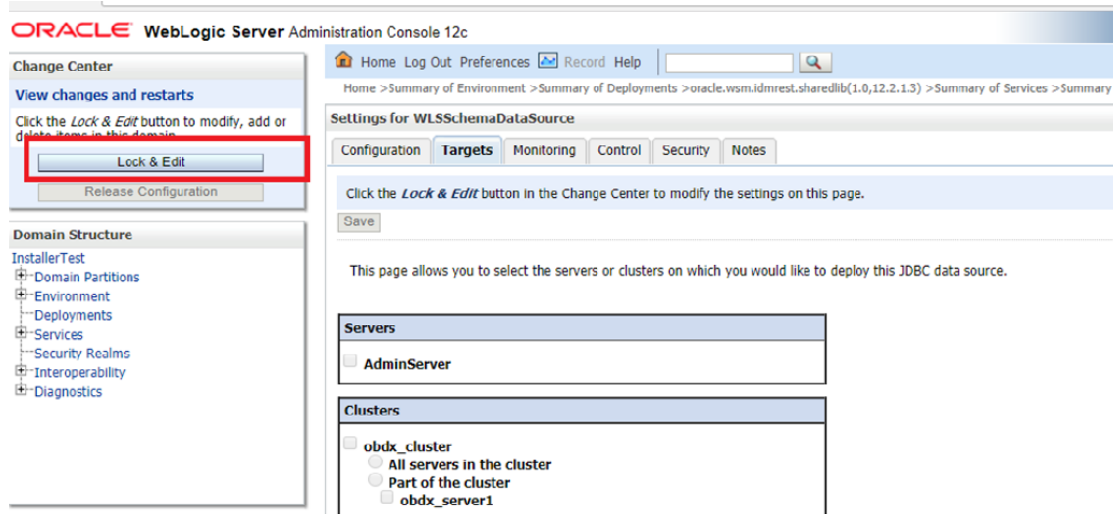
In the left panel of the Console, Click on **Services**,



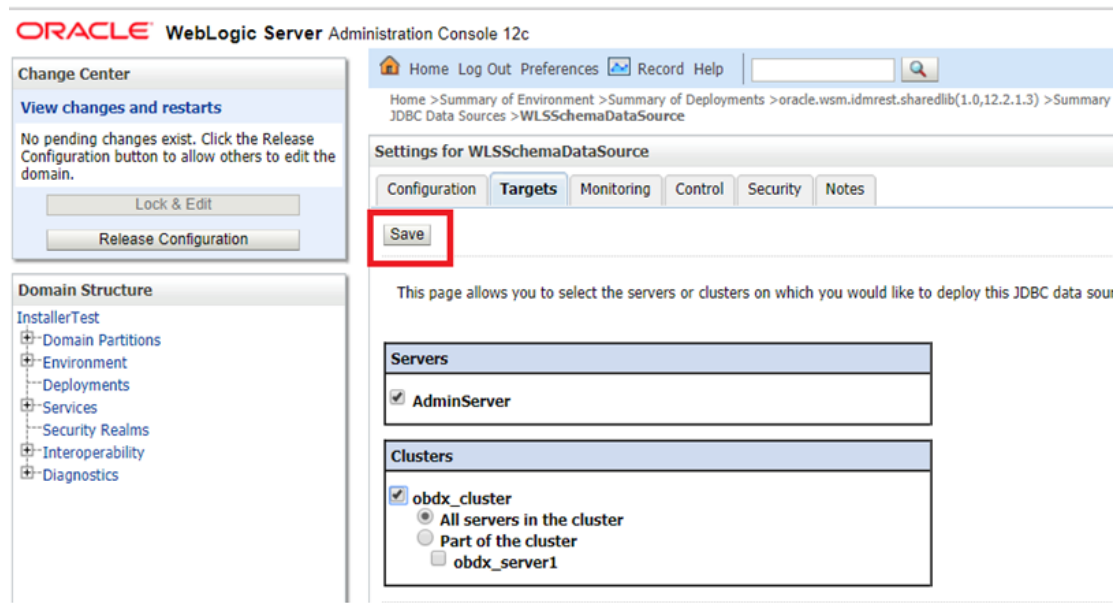
Click on **Data Sources**



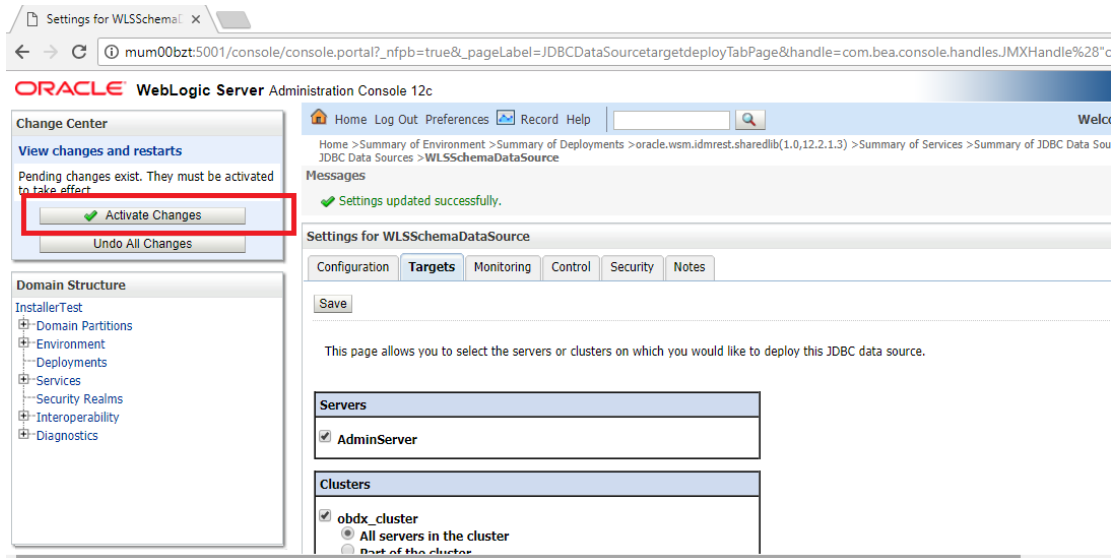
Click on **Lock & Edit**



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

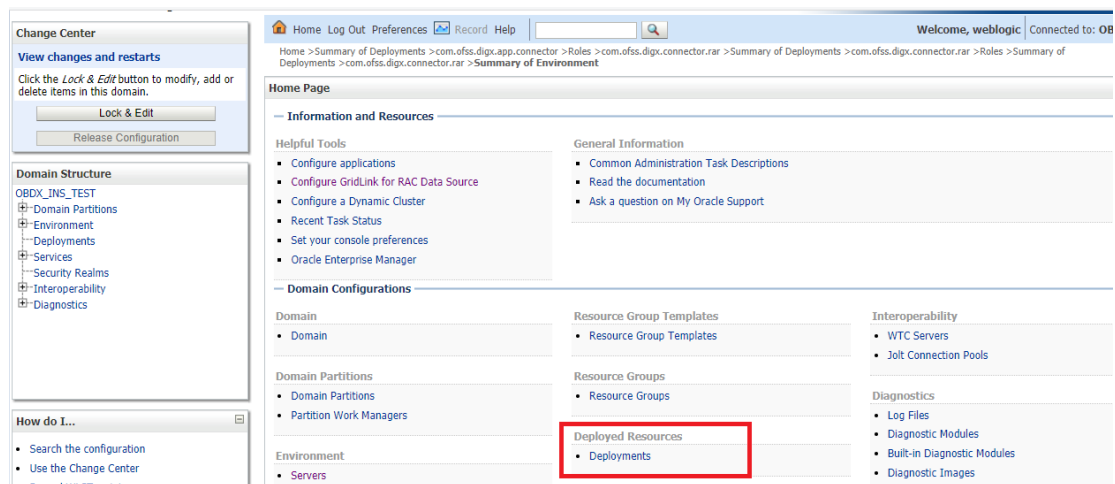


Click on **Activate Changes**



Outbound credential mappings

Login Weblogic Admin Console. Click on Deployments.



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

Name	State	Health	Type	Server	Environment	Size
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
AuditMDEAR	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

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

Settings for com.ofss.digx.connector.rar

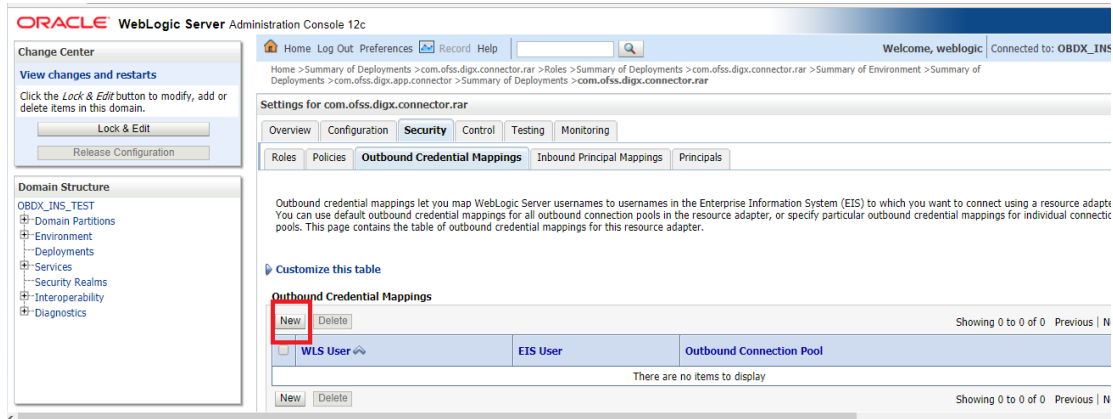
Overview Configuration **Security** Control Testing Monitoring

This page displays basic information about this resource adapter.

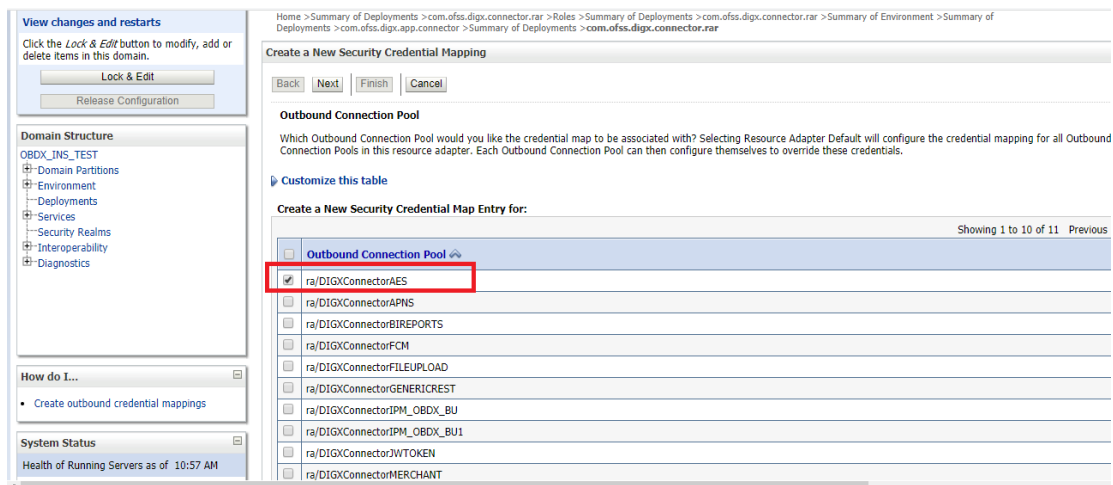
Name: com.ofss.digx.connector.rar The name of this application deployment. [More Info...](#)

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

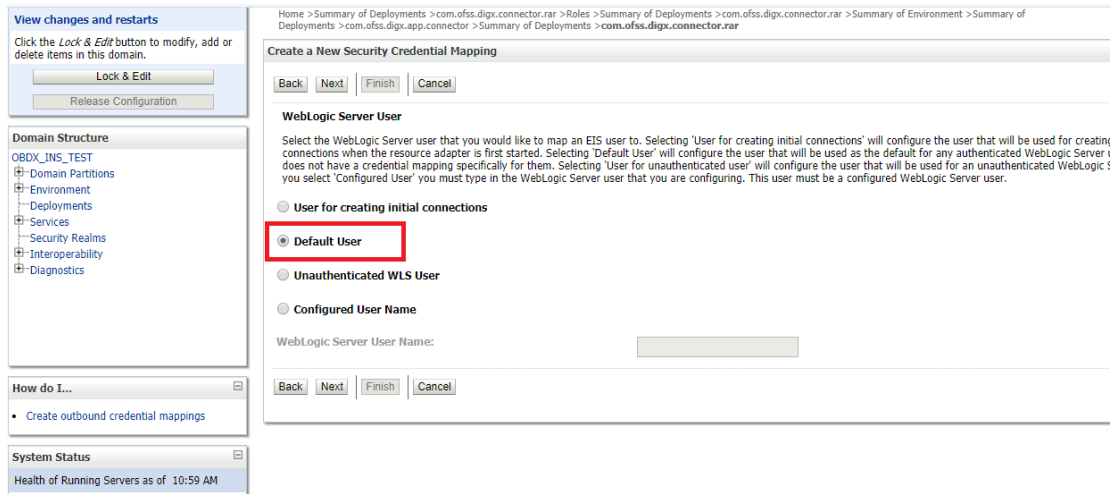
Click on **New**



Select **ra/DIGXConnectorAES > Next**

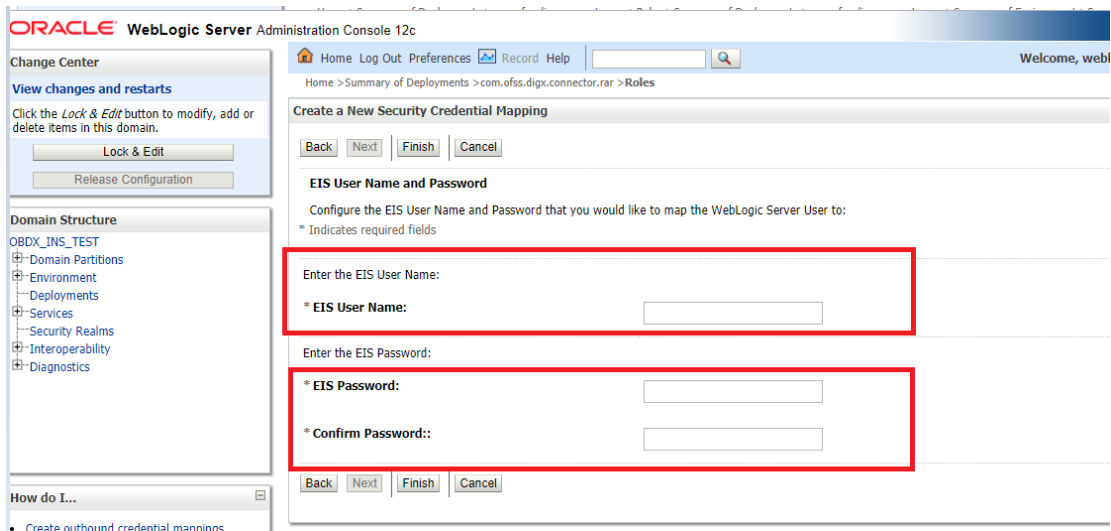


Select **"Default User"** > **Next**



Enter "EIS User Name" should be set to AES_KEY

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



Click 'Finish'

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::

Check AES_KEY mapping is created successfully.

[Customize this table](#)

Outbound Credential Mappings

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

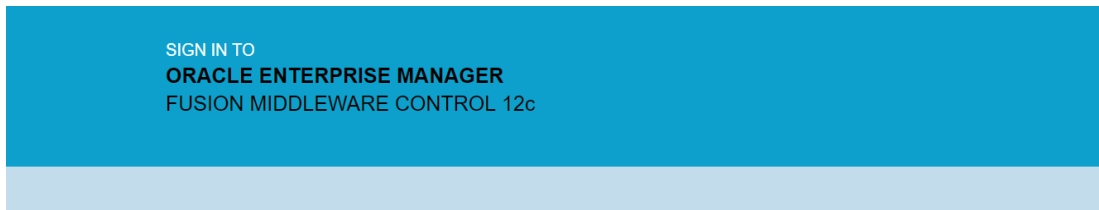
Apply JRF Template

To apply JRF template follow below steps.

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

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

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



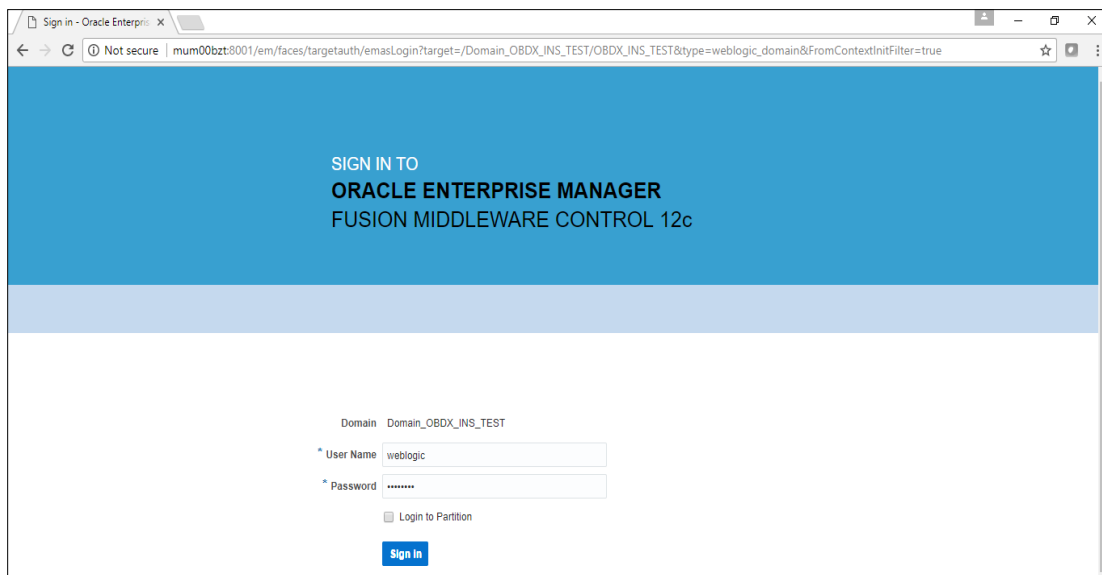
Domain Domain_OBDX182_UBS140

* User Name

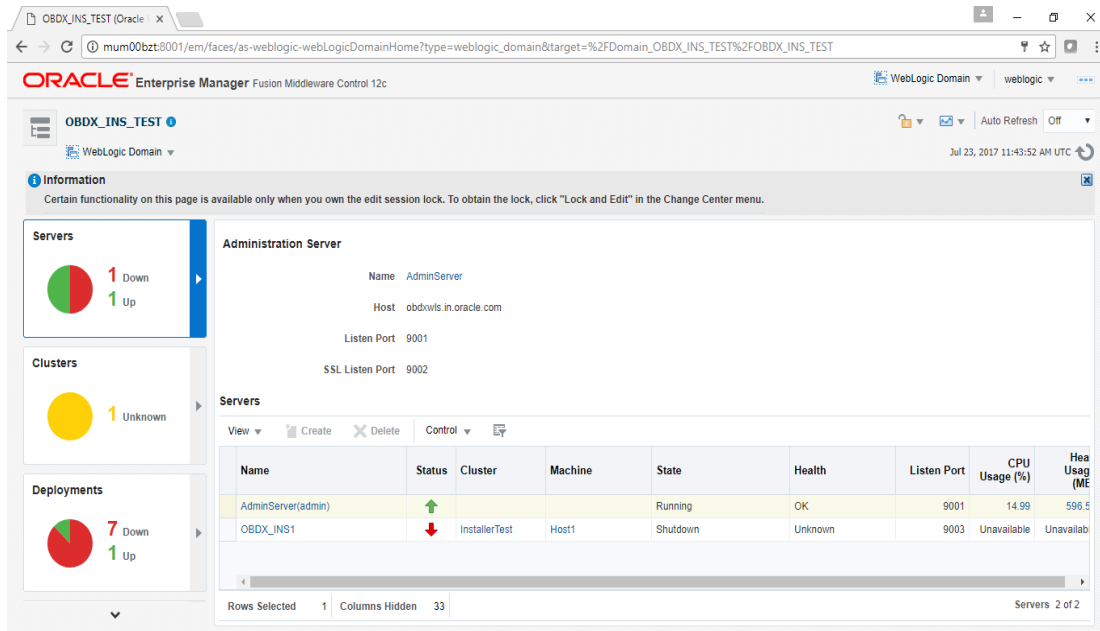
* Password

Login to Partition

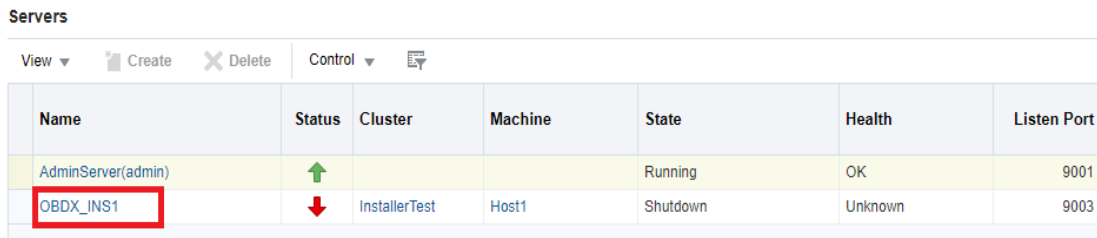
- Enter Weblogic administrator username and password (same used for Weblogic administrator console login)



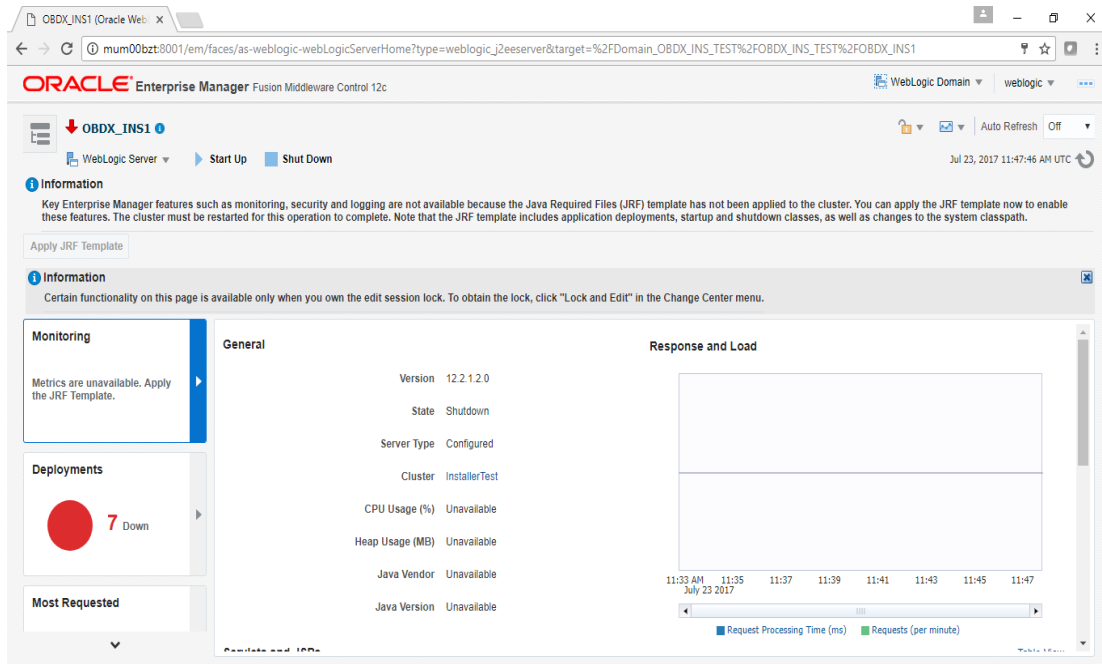
- Click on Sign In



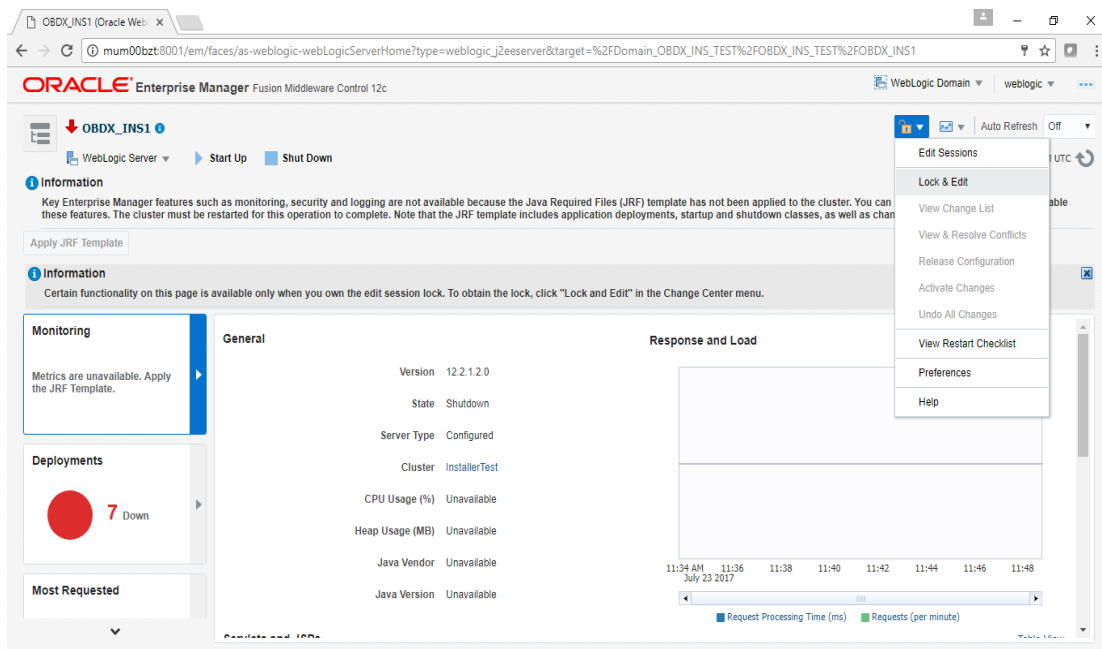
- Click on the Managed Server (as highlighted below)



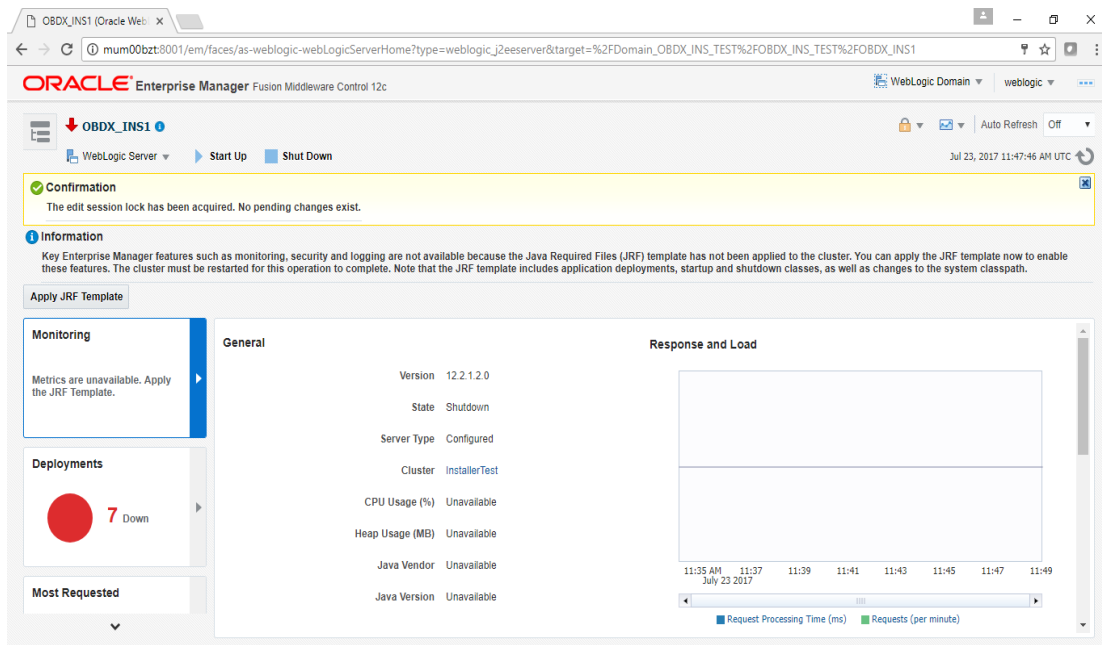
Note : Depending on installer.properties, Managed server will differ from above screenshot.



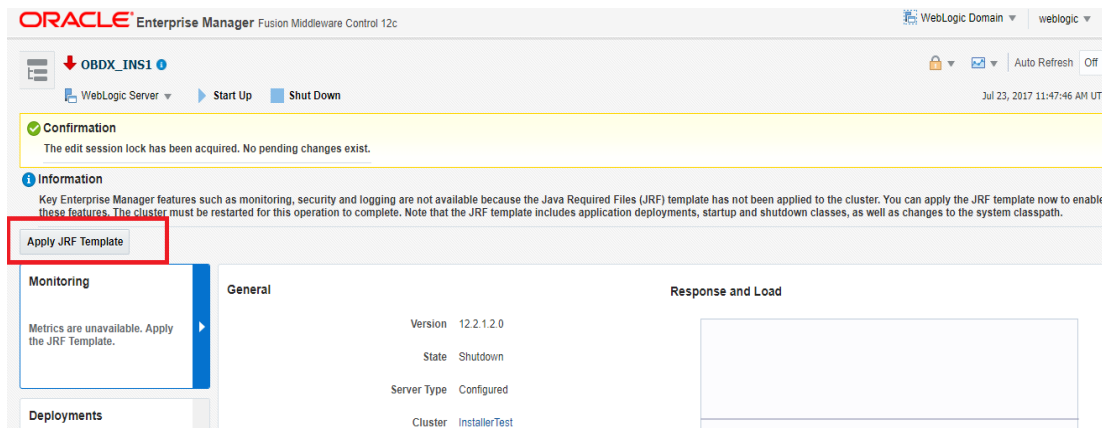
- Click on “Lock and Edit” option (as shown in screenshot).



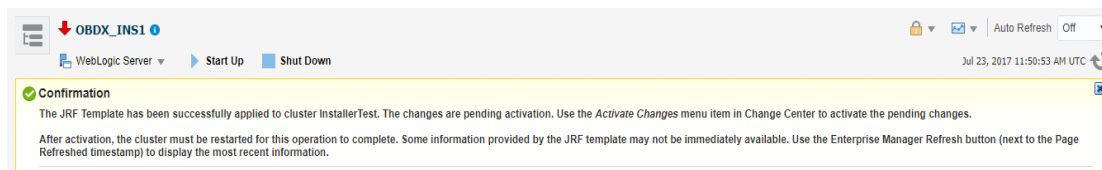
You will see below screen stating the edit session confirmation



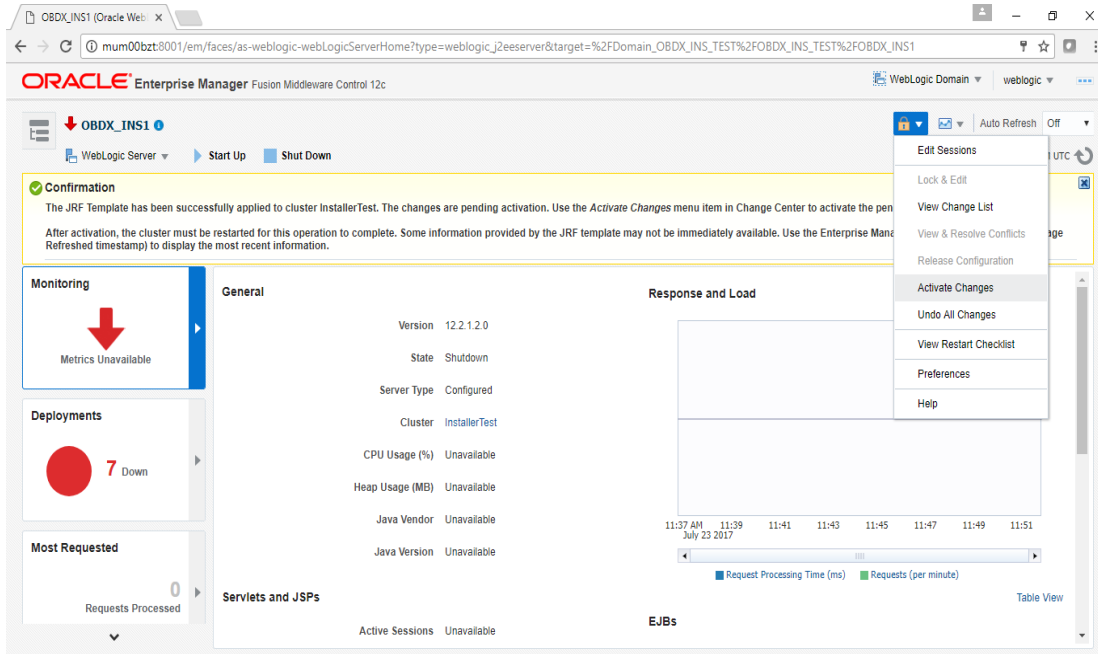
- Click on “Apply JRF Template” option (as shown in screenshot).



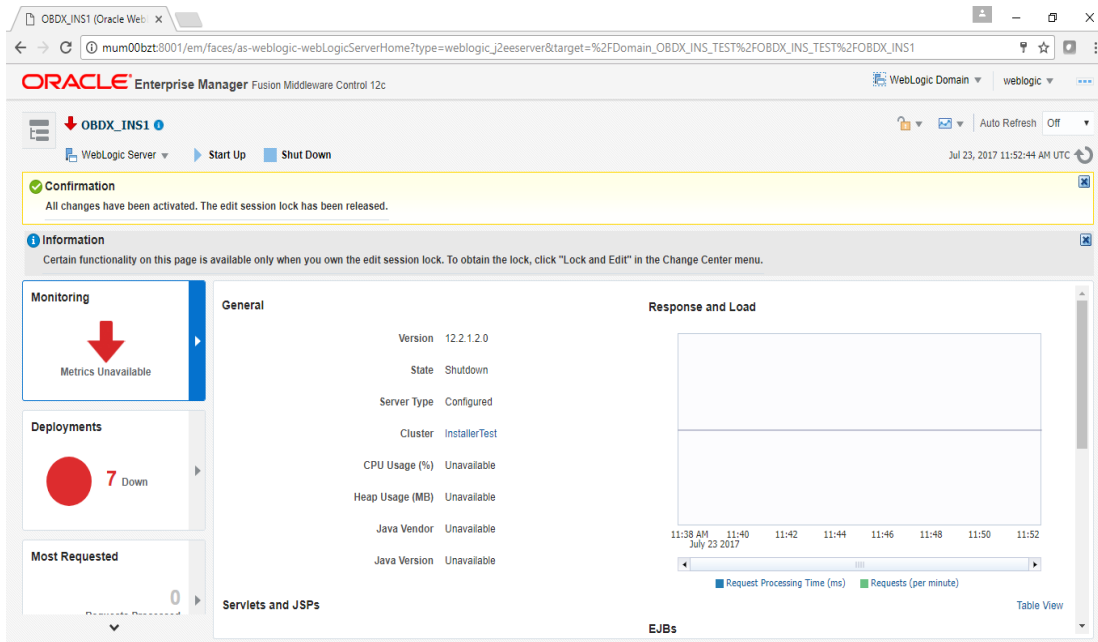
Is JRF successfully applied, you will get below Confirmation.



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



Post activation you will receive below Confirmation.



Configuring the Connector Credential Store

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

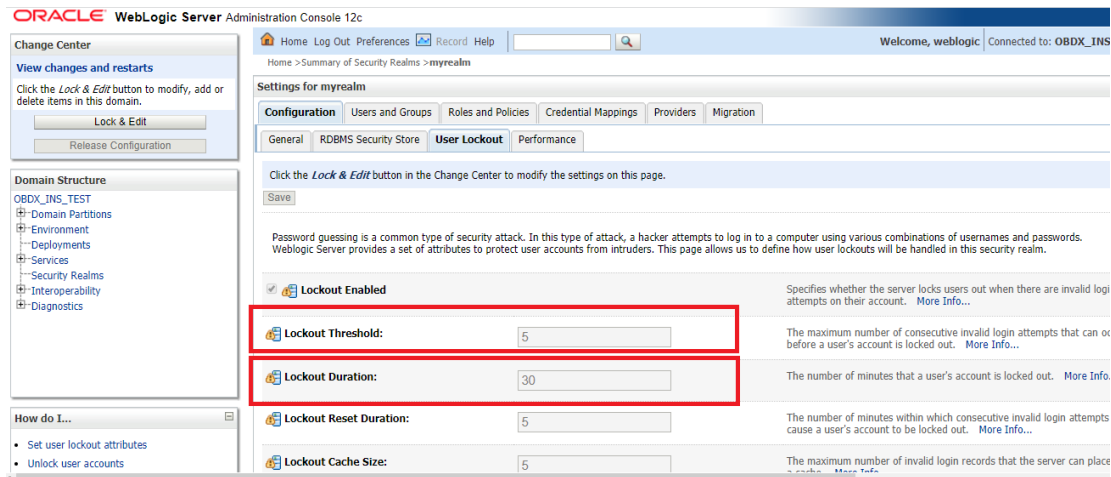
1] Lockout Threshold : It should be equal to Invalid attempts of Password Policy Maintenance.

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.



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



Save and Activate Changes

Restart AdminServer

OBDX Application logging

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

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

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

```
<log_handler name='obdx-handler' level='<LOGLEVEL>'
class='oracle.core.ojdl.logging.ODLHandlerFactory'>
  <property name='path' value='<path for OBDX log>/<OBDX log filename>' />
  <property name='maxFileSize' value='<The maximum size in bytes for each log file>' />
  <property name='maxLogSize' value='<The maximum size in bytes for the entire log>' />
  <property name='encoding' value='<encoding>' />
  <property name='useThreadName' value='true' />
  <property name='supplementalAttributes' value='<supplementalAttributes>' />
</log_handler>
```

Below is a sample implementation for log_handlers file.

```
<log_handler name='obdx-handler' level='ERROR' class='oracle.core.ojdl.logging.ODLHandlerFactory'>
  <property name='path' value='${domain.home}/servers/${weblogic.Name}/logs/obdx.log' />
  <property name='maxFileSize' value='10485760' />
  <property name='maxLogSize' value='104857600' />
  <property name='encoding' value='UTF-8' />
  <property name='useThreadName' value='true' />
  <property name='supplementalAttributes'
value='J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_PORT.name,compos
ite_instance_id,component_instance_id,composite_name,component_name' />
</log_handler>
```

```

@ebdkwls:~/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' />
  </log_handler>
</log_handlers>
</logging_configuration>

```

Add loggers under <loggers> tag using below template:

```

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

```

Note: Replace the #BANKCODE# with bank code.

Below is a sample implementation for loggers file

```

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

```

```

@obdxwls:~/domain/OBDX_INS_TEST/config/fmwconfig/servers/OBDX_INS1
</log_handler>
</log_handlers>
<!--
<logger name='com.ofss' level='ERROR' useParentHandlers='false'>
  <handler name='ofss-handler' />
</logger>
<logger name='000.com.ofss' level='ERROR' useParentHandlers='false'>
  <handler name='ofss-handler' />
</logger>
<!--
<logger name='' level='WARNING:1' useParentHandlers='true'>
  <handler name='odl-handler' />
  <handler name='wls-domain' />
  <handler name='console-handler' />
</logger>
<!--
<logger name='oracle' level='NOTIFICATION:1' useParentHandlers='true' />
<logger name='oracle.adf' useParentHandlers='true' />
<logger name='oracle.adf.desktopintegration' useParentHandlers='true' />
<logger name='oracle.adf.faces' useParentHandlers='true' />
<logger name='oracle.adf.controller' useParentHandlers='true' />
<logger name='oracle.adfinternal' useParentHandlers='true' />
<logger name='oracle.adfinternal.controller' useParentHandlers='true' />
<logger name='oracle.jbo' useParentHandlers='true' />
<logger name='oracle.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]$ 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.ofss.fc.infra.das.orm.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.ofss.digx.infra.das.orm.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
  <persistence-unit name='BATCH' transaction-type='RESOURCE_LOCAL'>
    <mapping-file>META-INF/generic-mapping.orm.xml</mapping-file>
    <properties>
      <property name='eclipselink.logging.level' value='WARNING' />
      <property name='eclipselink.logging.file' value='jpa-eclipselink-batch.log' />
      <property name='eclipselink.jdbc.connector' value='com.ofss.fc.infra.das.orm.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.ofss.digx.infra.das.orm.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
  <persistence-unit name='NONXA' transaction-type='RESOURCE_LOCAL'>
    <non-jta-data-source>NONXA/non-jta-data-source</non-jta-data-source>
    <mapping-file>META-INF/generic-mapping.orm.xml</mapping-file>
    <properties>
      <property name='eclipselink.logging.level' value='WARNING' />
      <property name='eclipselink.logging.file' value='jpa-eclipselink-nonxa.log' />
      <property name='eclipselink.jdbc.connector' value='com.ofss.fc.infra.das.orm.eclipselink.EclipseLinkConnector' />
      <property name='eclipselink.target-server' value='WebLogic' />
      <property name='eclipselink.session.customizer' value='com.ofss.digx.infra.das.orm.eclipselink.EclipseLinkSessionCustomizer' />
    </properties>
  </persistence-unit>
</persistence.xml
[
  META-INF]$

```

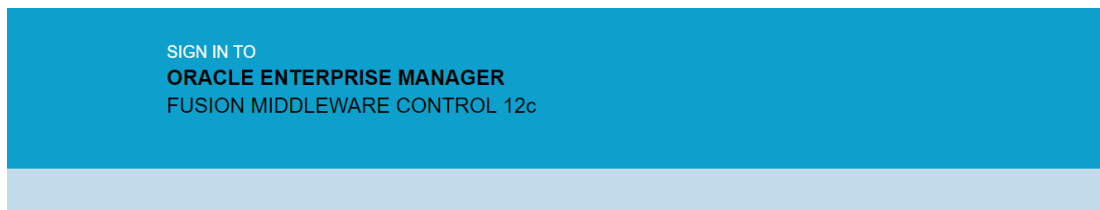

Change logging level during runtime

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”.



Domain Domain_OBDX182_UBS140

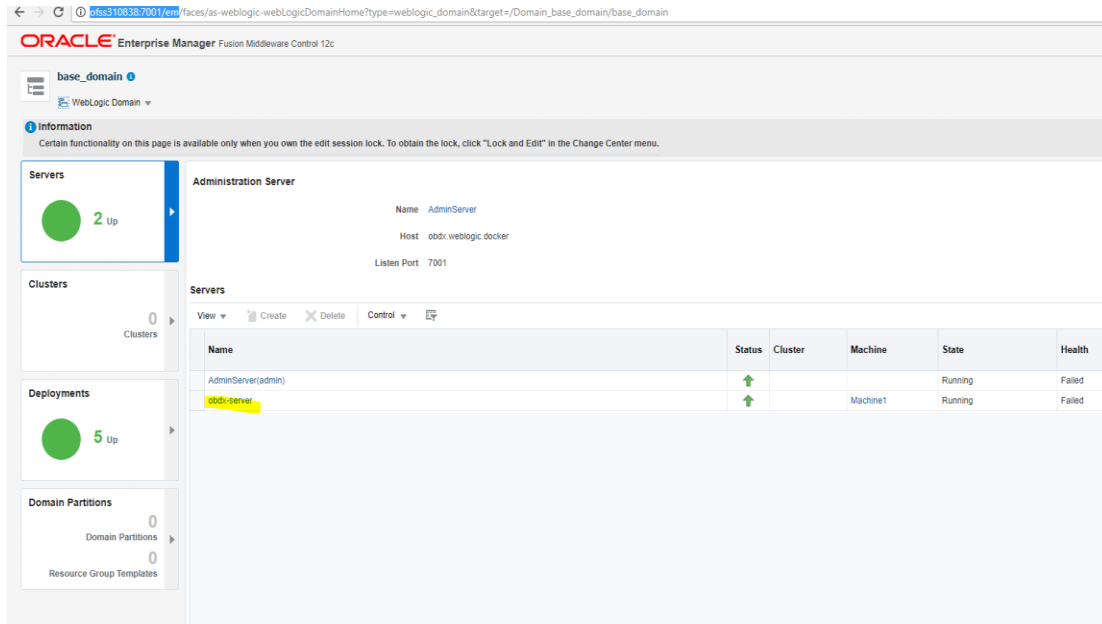
* User Name

* Password

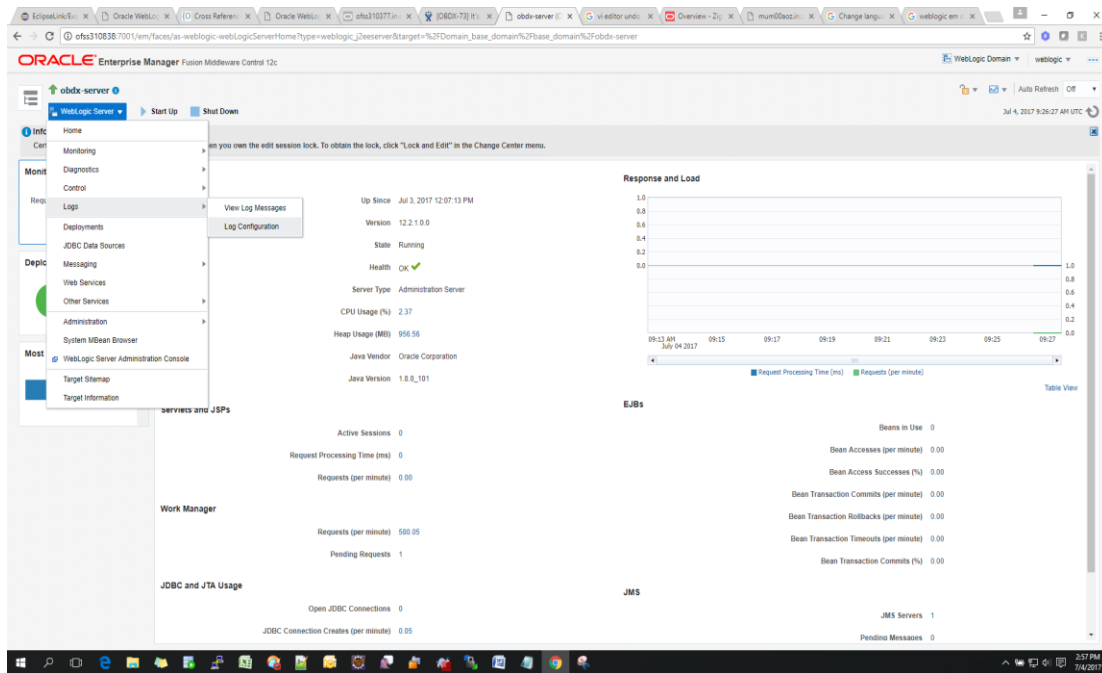
Login to Partition

- Click on obdx-server

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



- In Weblogic Domain menu click on Logs -> Logs Configurations



- Select the logger and change the logging level and then click on apply.

The screenshot shows the Oracle Enterprise Manager interface for configuring loggers. The page title is 'Log Configuration' for the 'obdx-server' WebLogic Server. The 'Runtime Loggers' view is selected, and a search filter 'All Categories' is applied. The following table represents the data shown in the interface:

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	
jmx4mw	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, distribu configure and manage JMS system modules as global system resources.

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

[Customize this table](#)

JMS Modules (Filtered - More Columns Exist)

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

Name	Type
AuditJMS	JMSSystemResource
FileUploadJMS	JMSSystemResource
ReportsJMSModule	JMSSystemResource
UBSSystemModule	JMSSystemResource

Settings for UBSSystemModule

Configuration | Subdeployments | Targets | Security | Notes

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

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

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

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

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

[Customize this table](#)

Summary of Resources

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

Name	Type	JNDI Name	Subdeployment	Targets
UBSForeignServer	Foreign Server	N/A	UBSSubdeployment	obdx_cluster

- Click on UBSForeignServer

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

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

Save

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

Name: UBSForeignServer

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte:

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

JNDI Properties Credential:

Confirm JNDI Properties Credential:

JNDI Properties:

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

- Click on Lock & Edit

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Save

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

Name: UBSForeignServer

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte:

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

JNDI Properties Credential:

Confirm JNDI Properties Credential:

JNDI Properties:

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

Set below configurations with:

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

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

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

- Click on Save

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Save

A foreign server represents a JNDI provider that resides outside a WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a number of connection factory and destination objects (queues or topics) can be defined on one JNDI foreign server.

Name: UBSForeignServer The name of this foreign server. [More Info...](#)

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte The name of the class that must be instantiated to access the JNDI provider. This cla 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 th 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 the constructor for the JNDI provider's InitialContext class. Note: For secure credenti the Properties field results in the credential being stored and displayed as originall e

Confirm JNDI Properties Credential:

JNDI Properties: java.naming.security.principal=infra Any additional properties that must be set for the JNDI provider. These properties wil JNDI provider's InitialContext class. [More Info...](#)

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

Save

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

Messages

Settings updated successfully.

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Save

A foreign server represents a JNDI provider that resides outside a WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a number of connection factory and destination objects (queues or topics) can be defin foreign server.

Name: UBSForeignServer The name of this foreign server. [More Info...](#)

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte The name of the class that must be instantiated to access the JNDI pr 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. T being used. For WebLogic JMS, leave this field blank if you are referen Info...

JNDI Properties Credential: Any Credentials that must be set for the JNDI provider. These Credent the constructor for the JNDI provider's InitialContext class. Note: For s the Properties field results in the credential being stored and displaye

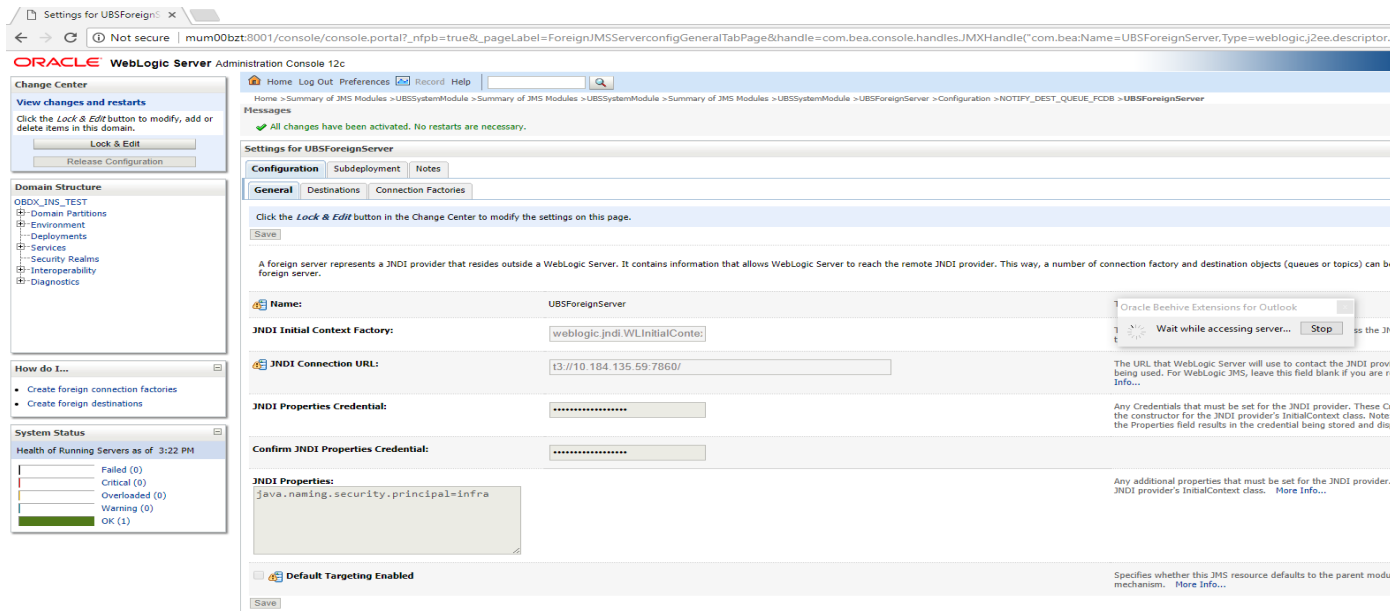
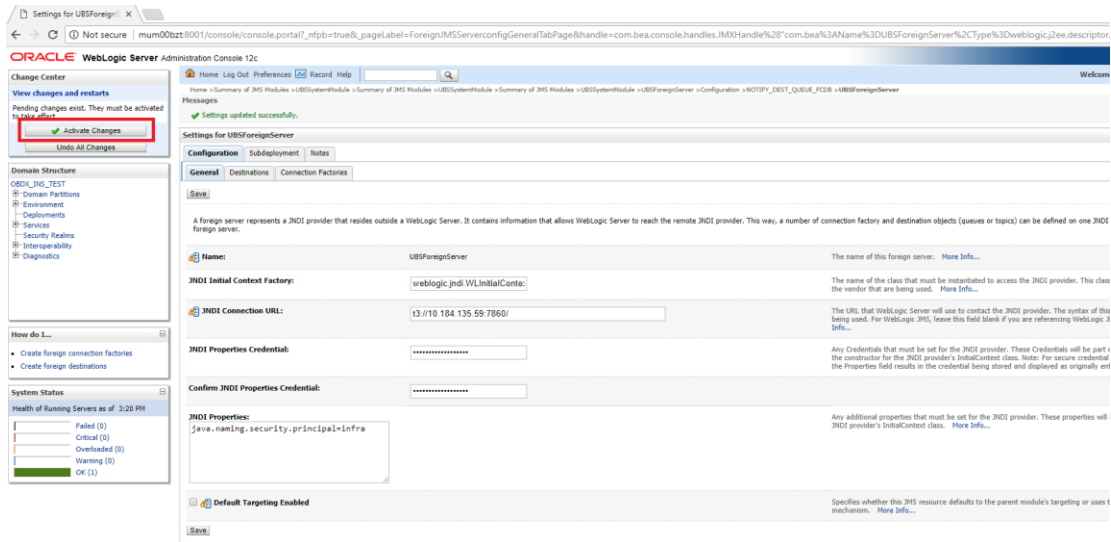
Confirm JNDI Properties Credential:

JNDI Properties: java.naming.security.principal=infra Any additional properties that must be set for the JNDI provider. Thes JNDI provider's InitialContext class. [More Info...](#)

Default Targeting Enabled Specifies whether this JMS resource defaults to the parent module's ta mechanism. [More Info...](#)

Save

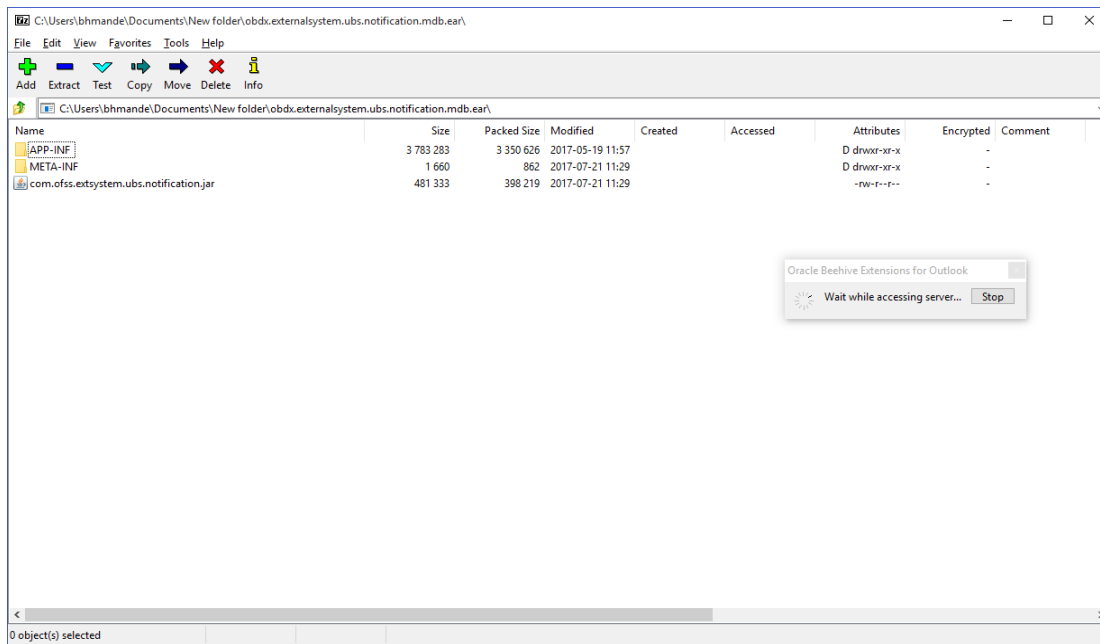
- Click on Activate Changes



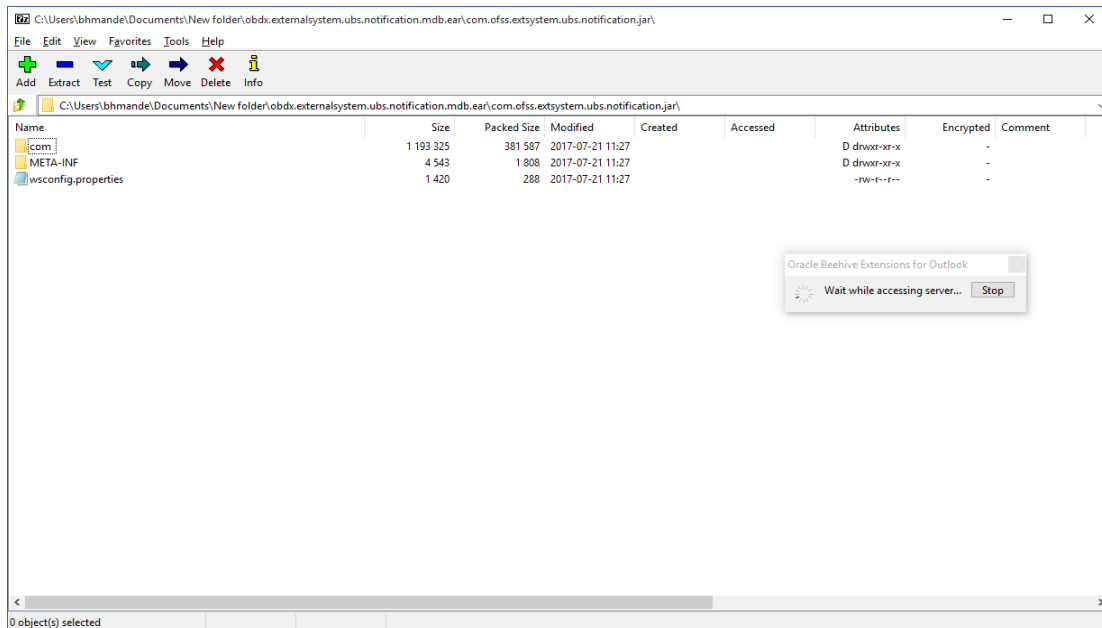
Deployment of notification MDB application

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

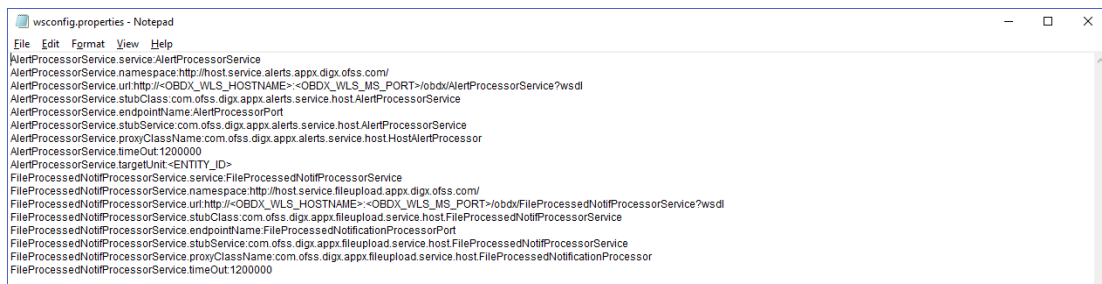
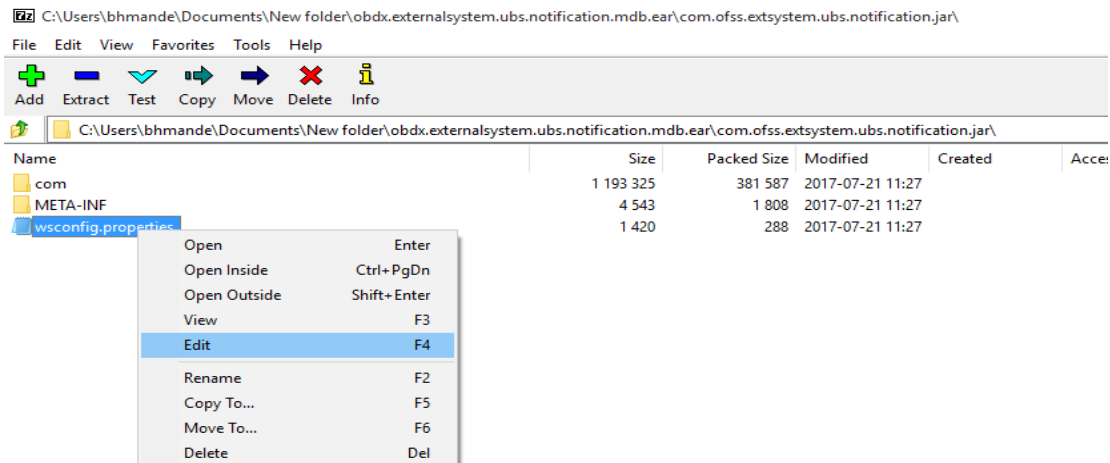
- Open the obdx.externalsystem.ubs.notification.mdb.ear (EAR file is available <OBDX INSTALLER DIR>/installables/app/components/ubs/deploy/obdx.externalsystem.ubs.notification.mdb.ear) using any archiving tools (i.e.: 7-zip)



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



- Open the wsconfig.properties to edit



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

```

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

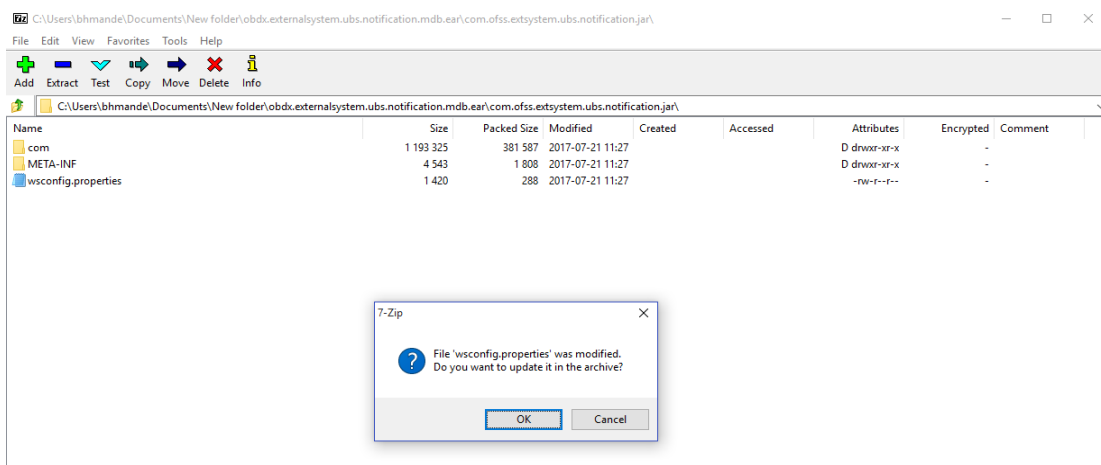
```

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

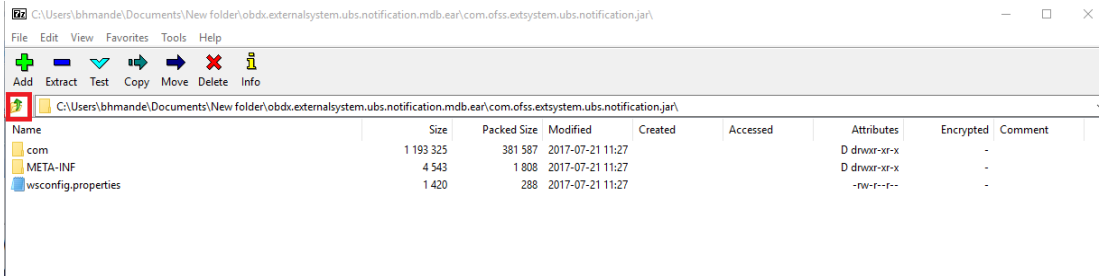
```

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

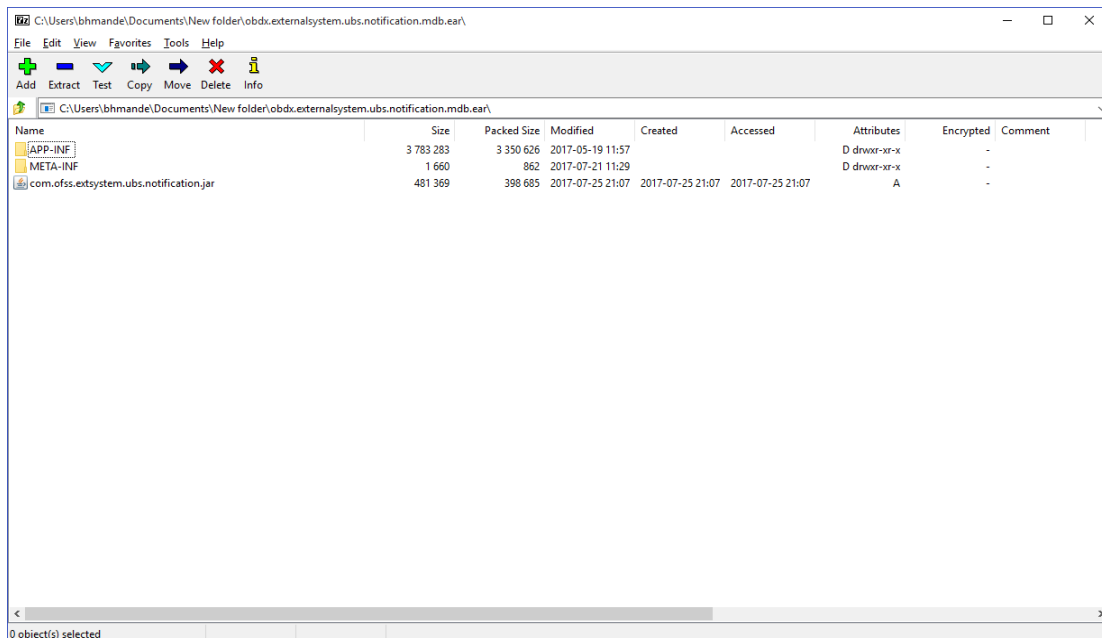
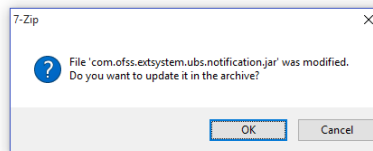
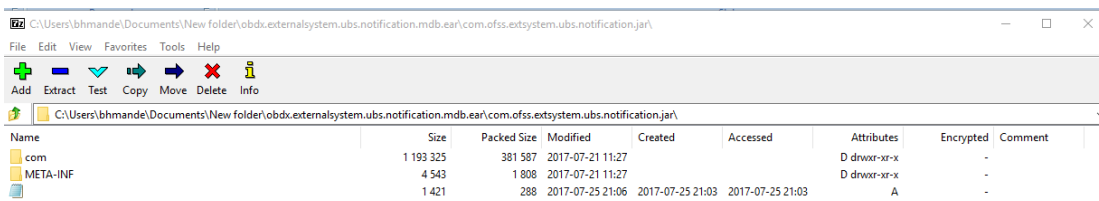
- Save changes.
- Click OK.



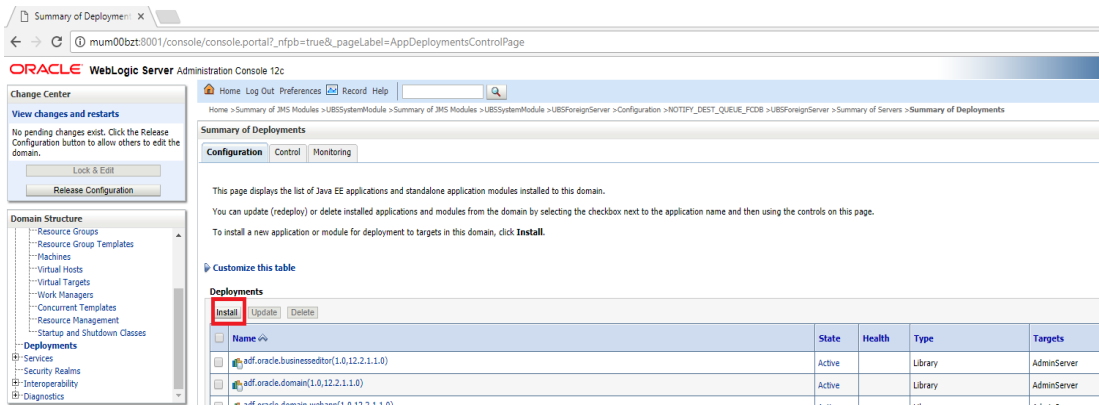
- Navigate back to obdx.externalsystem.ubs.notification.mdb.ear



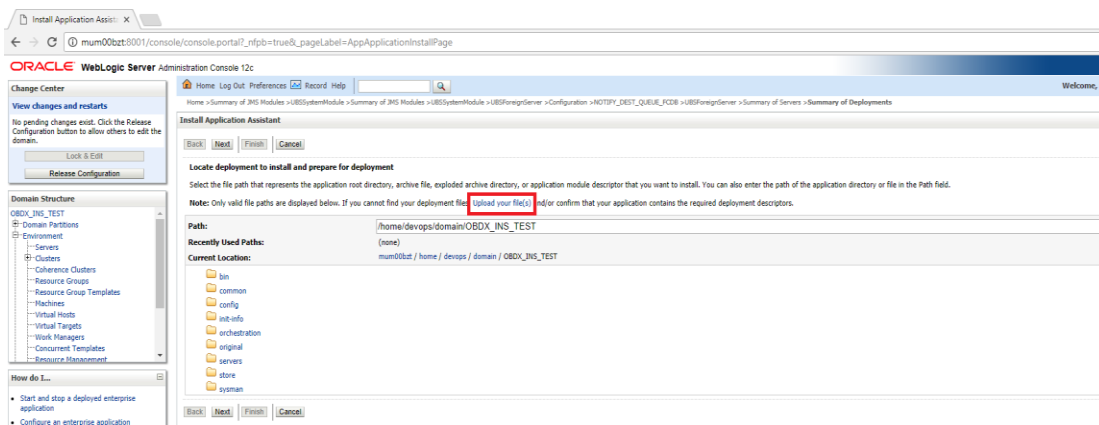
- Click OK



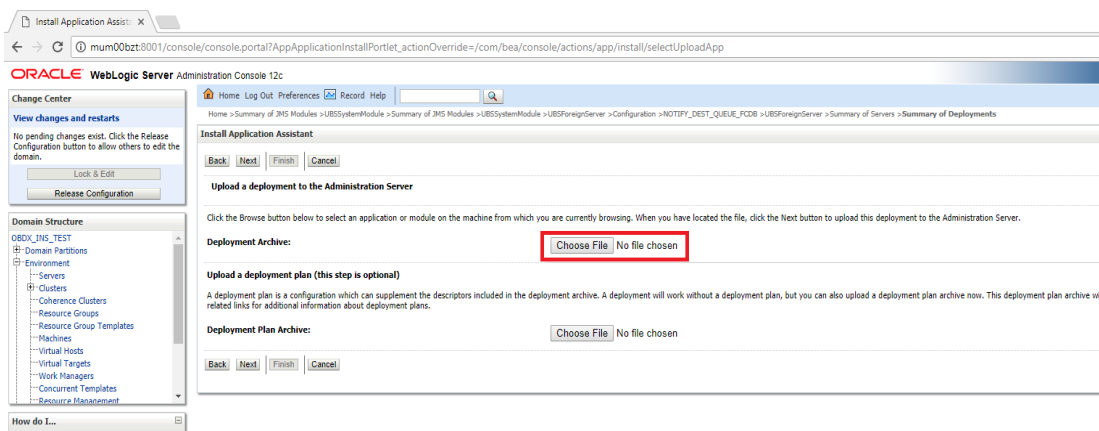
- Click on Install



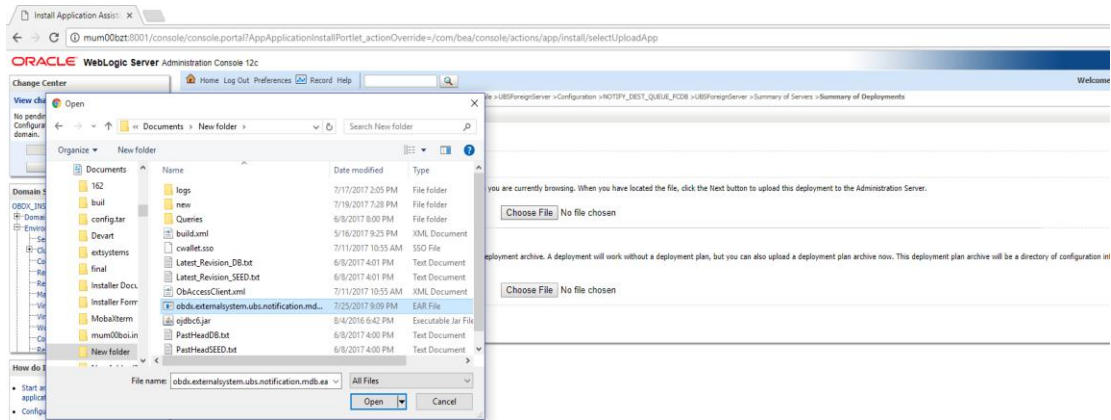
- Click on Upload your file(s)



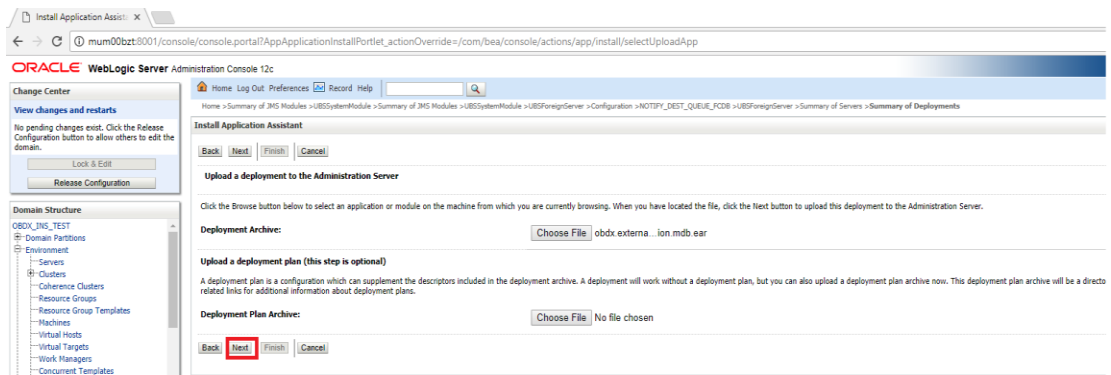
- Click on Choose File under Deployment Archive



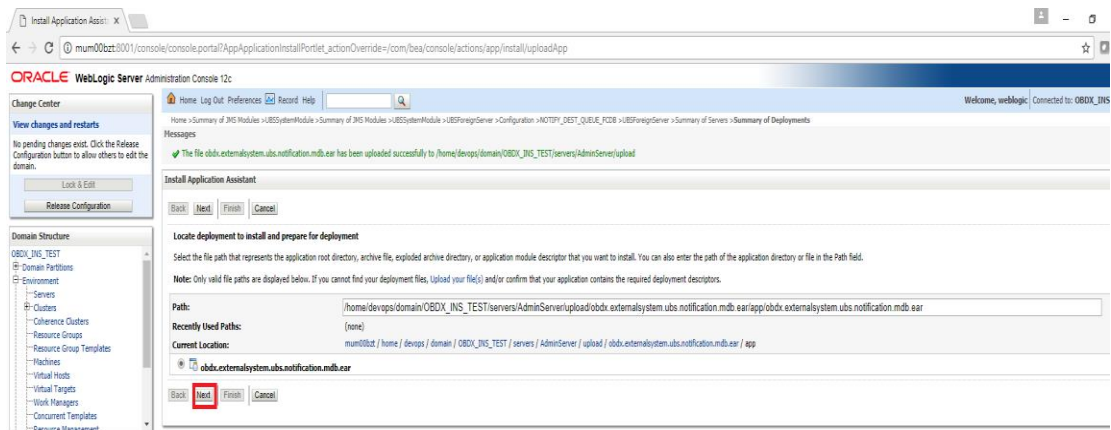
- Navigate to customized obdx.externalsystem.ubs.notification.mdb.ear and click Open



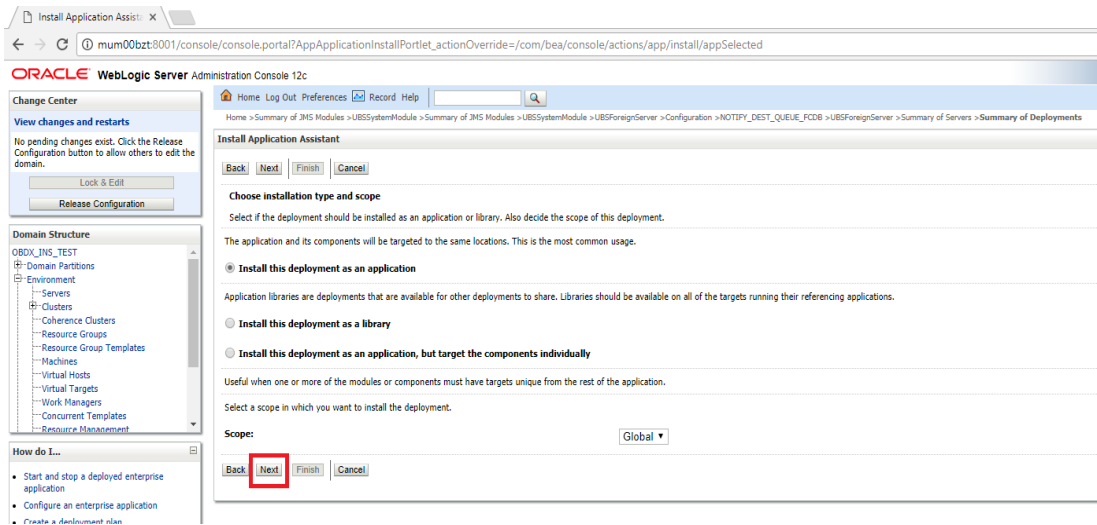
- Click Next



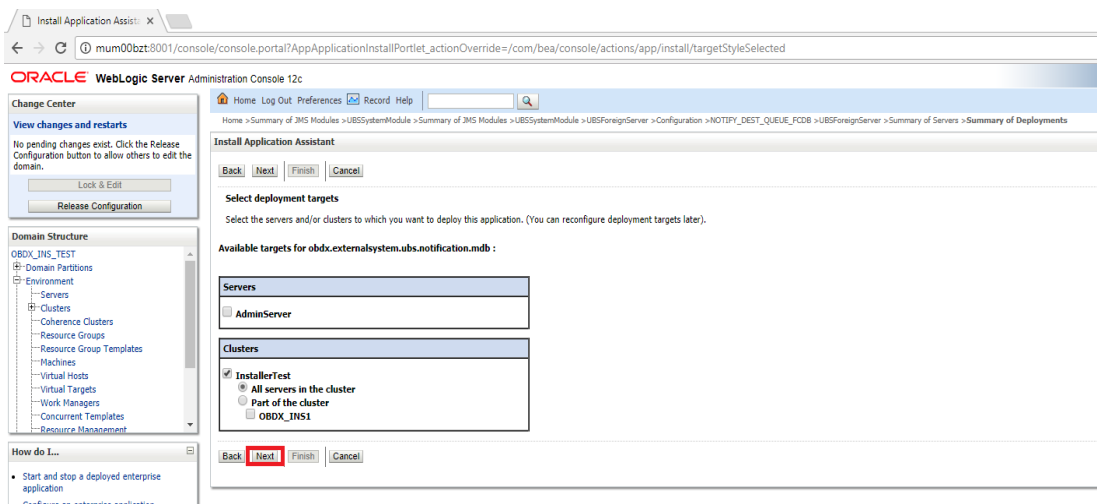
- Click Next



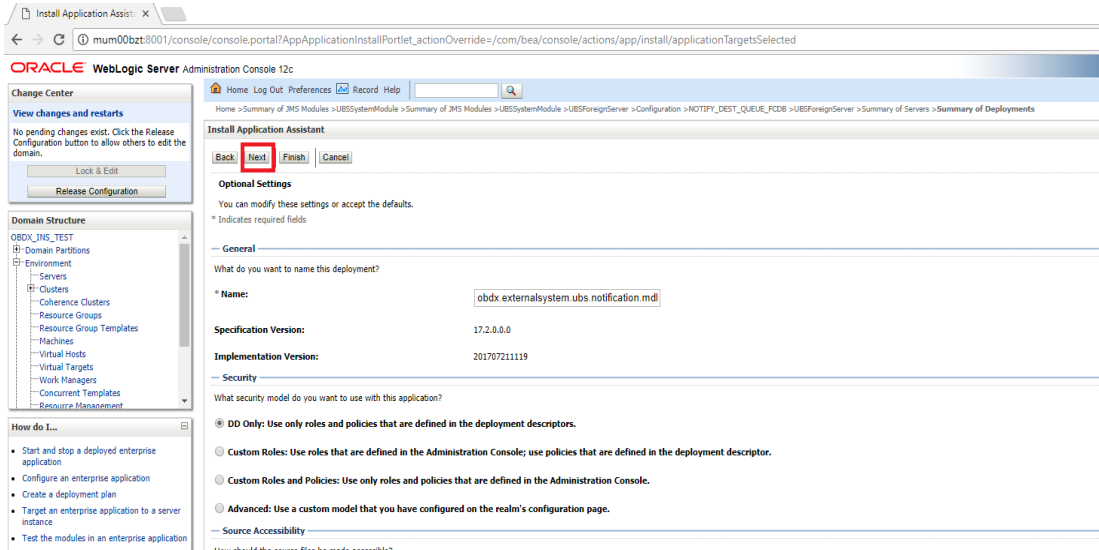
- Select “Install this deployment as an application” and click Next



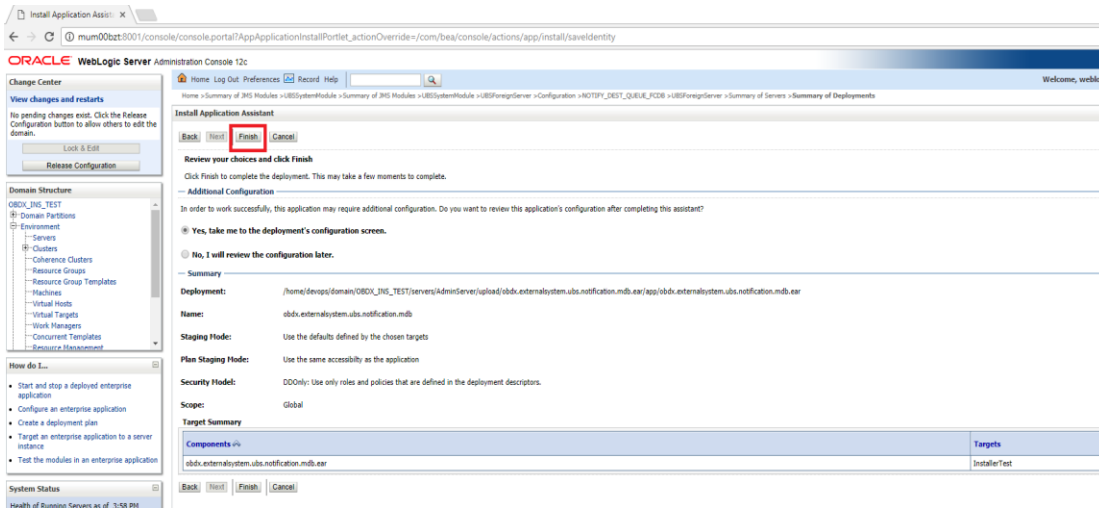
- Select Cluster as target and click Next



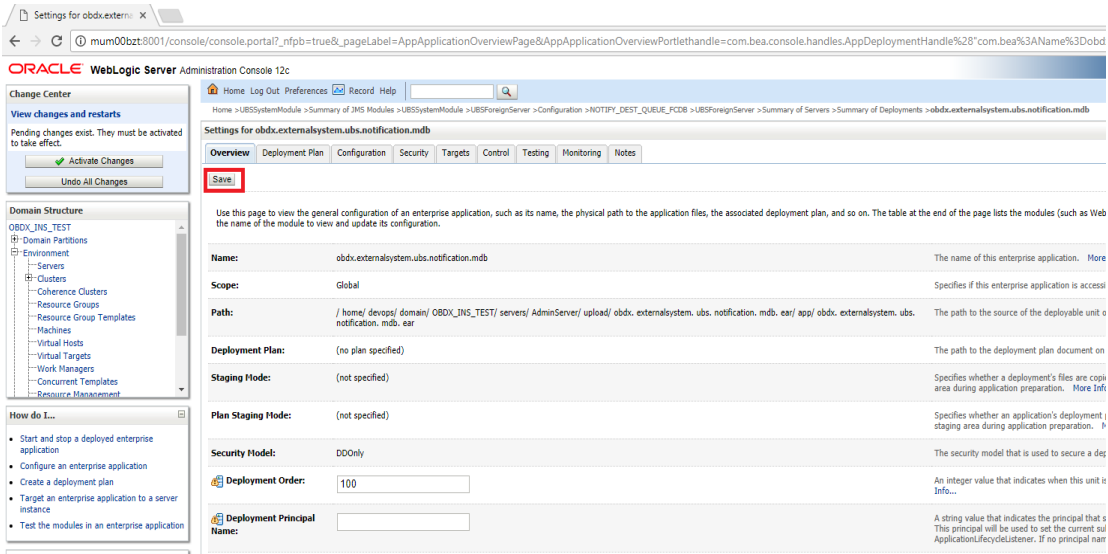
- Click Next



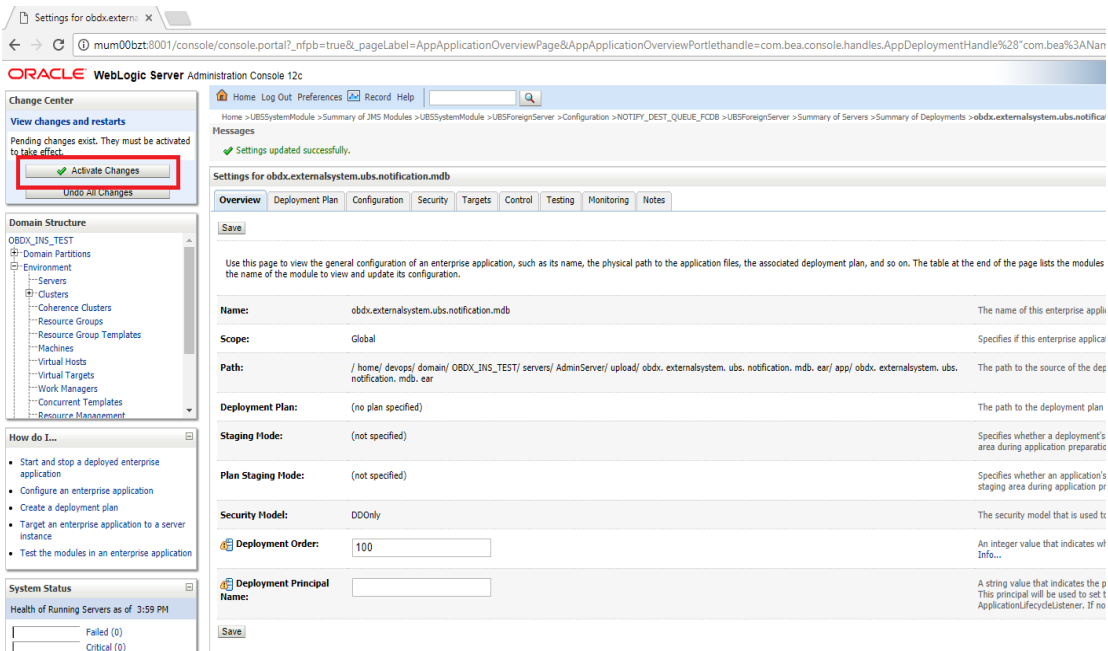
- Click Finish.

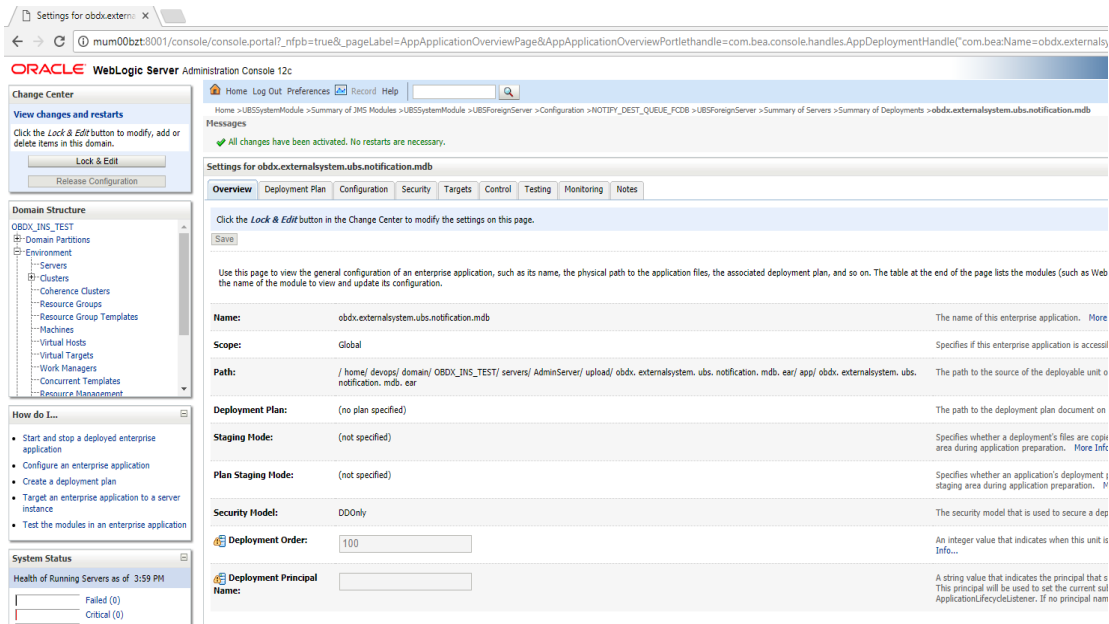


- Click Save.



- Click Activate Changes



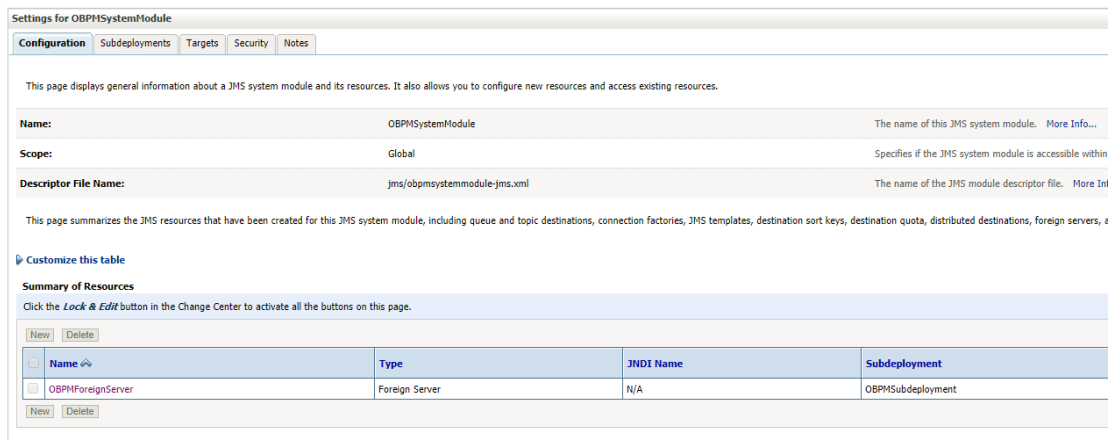


Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBDX with OBPM)

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)



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**

OBDX with OBP Base (Installation with Oracle Banking Platform)

Refer below document (section 5.2 OUD configurations in OBP) for User Authentication required for integration with OBP

- **Oracle Banking Digital Experience OBP Base Setup and Configuration**

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).

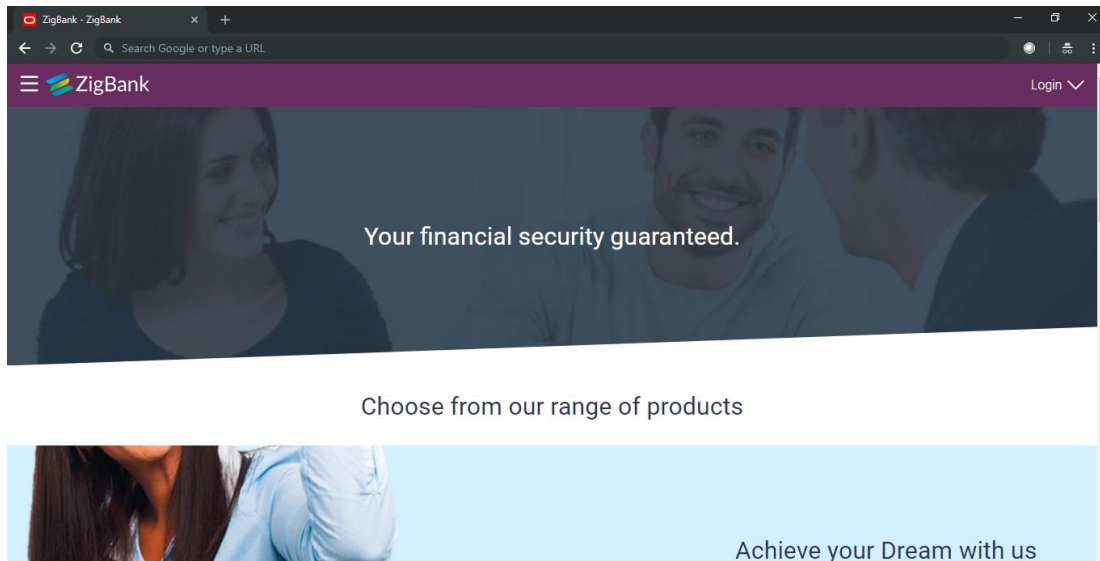
<input type="checkbox"/>	AuditMDBEAR	Active	✔ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	BatchResourceAdapter	Active	✔ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	coherence-transaction-rar	Active	✔ OK	Resource Adapter	AdminServer, obdx_cluster	Global		100
<input type="checkbox"/>	com.ofss.digx.app.connector	Active	✔ OK	Enterprise Application	obdx_cluster	Global		100
<input type="checkbox"/>	ExtifaceSimulatorMDB	Active	✔ OK	Enterprise Application	obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.core.domain(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.core.patch(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.domain(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.app.framework(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<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		0
<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(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.cz.extsystem.domain(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.cz.thirdparty.app.domain(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.extsystem.domain(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0
<input type="checkbox"/>	obdx.thirdparty.app.domain(18.3.0.0.0,959)	Active		Library	AdminServer, obdx_cluster	Global		0

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

Oracle Banking Platform (OBDX with OBP)

Refer below document (Section 4 System Configuration – Host System as OBP Base and US LZN) for Day1 configuration required for integration with OBP

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

[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

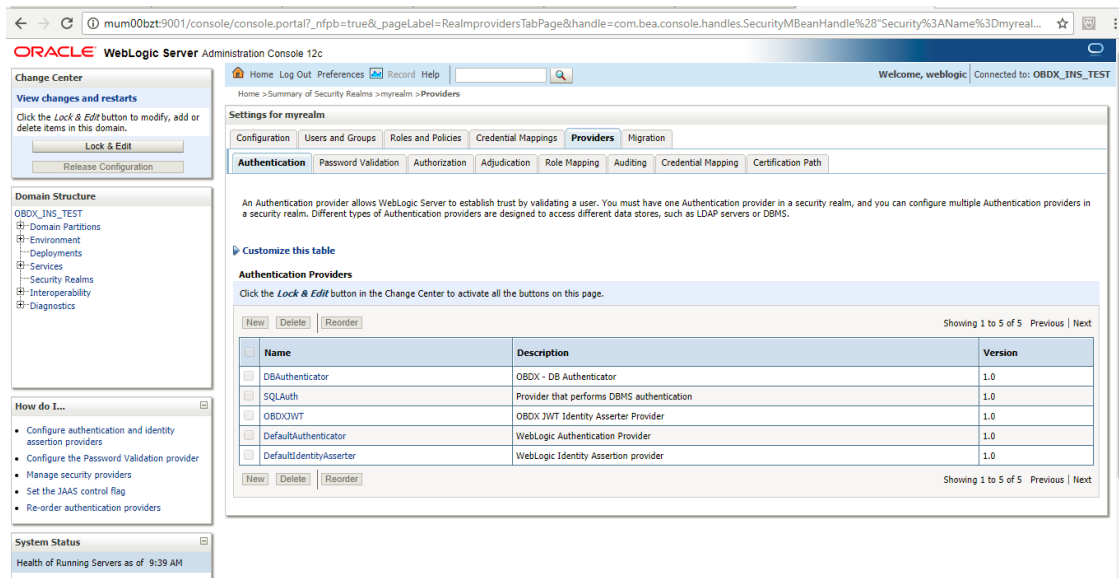
- **Security Realms**

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:

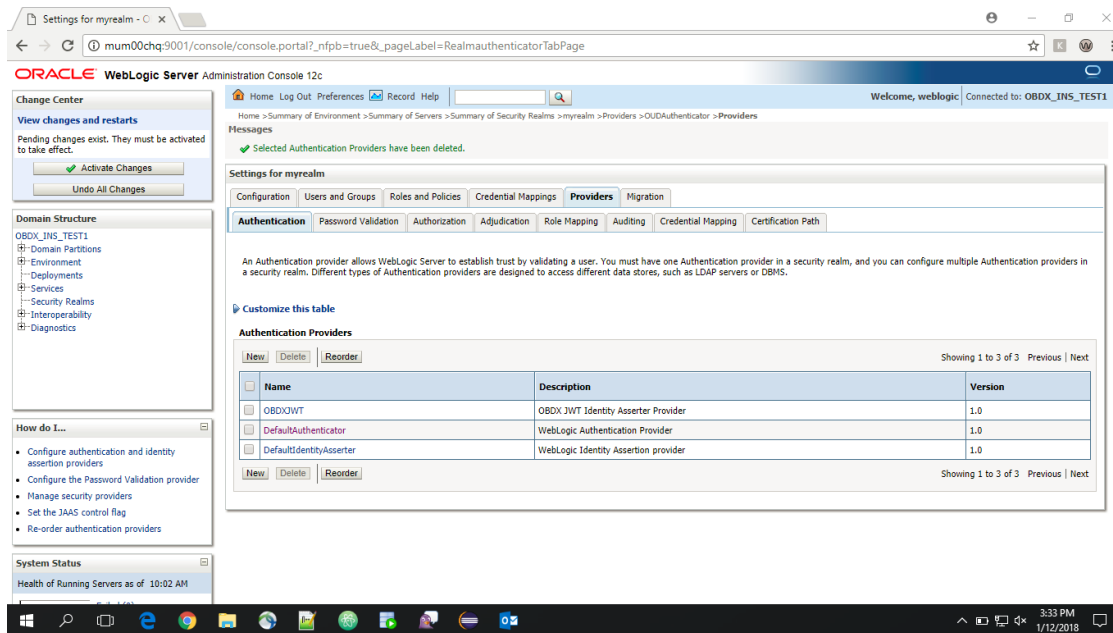
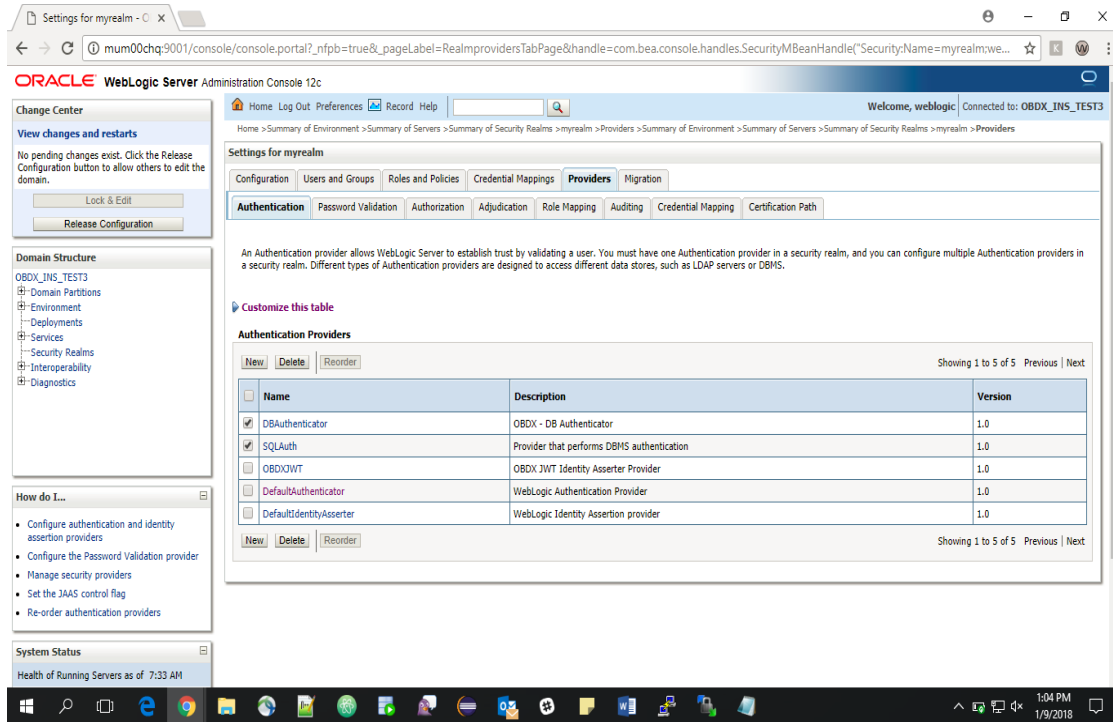
http://<hostname>:<admin_port>/console

- Now, go to Security Realms > myrealm > Providers

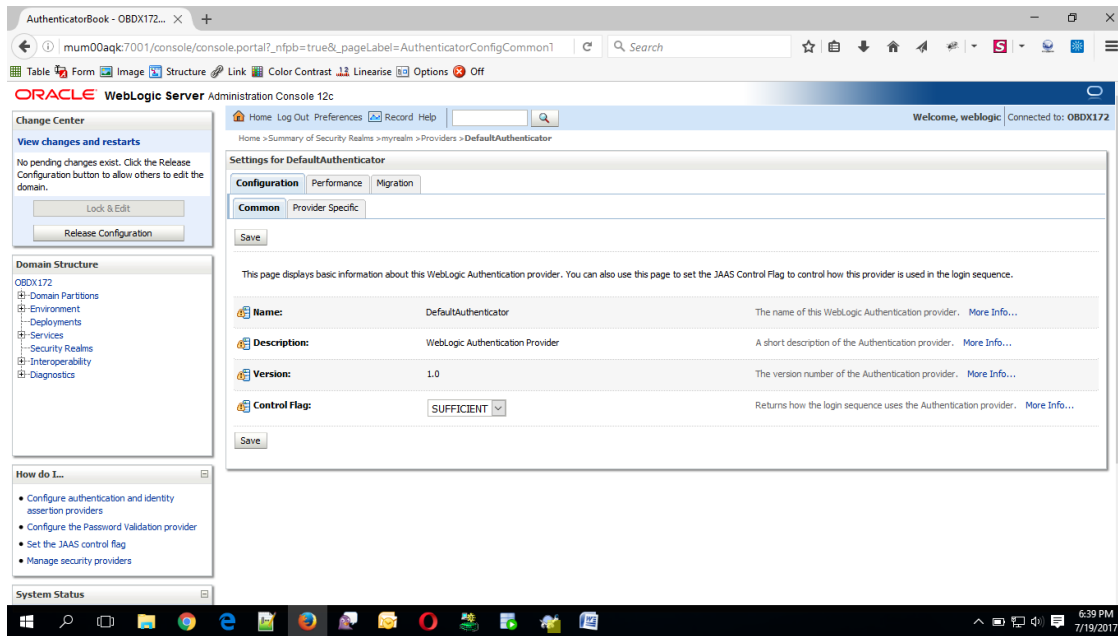


- Now click on “**Lock & Edit**” in order to edit the details.
- Delete the following Authenticators under providers-> **Authentication**:

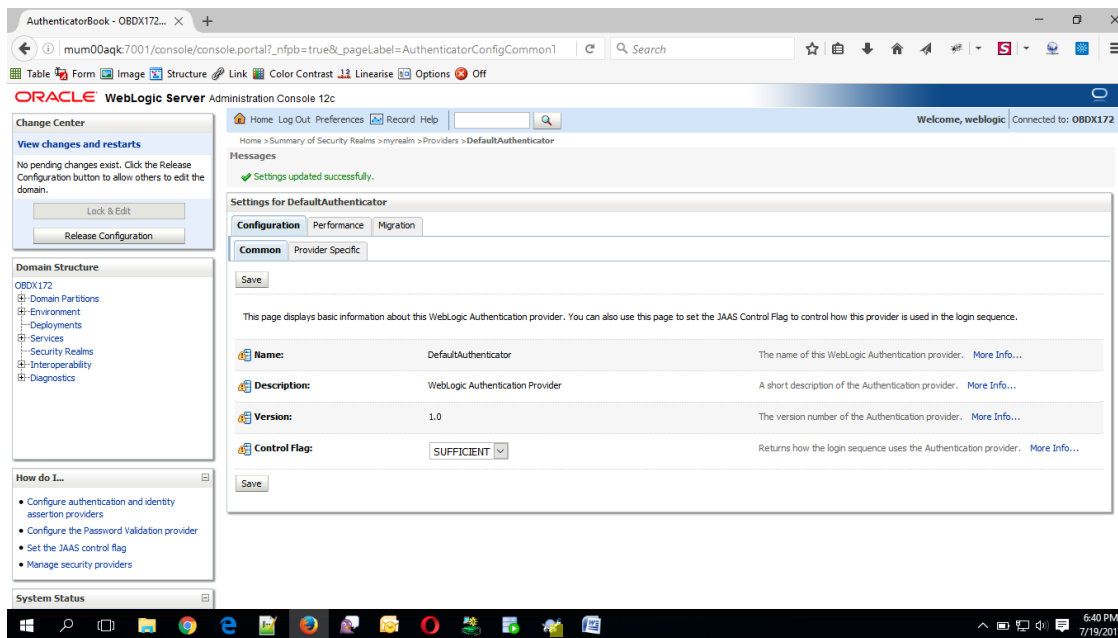
DBAuthenticator
SQLAuth



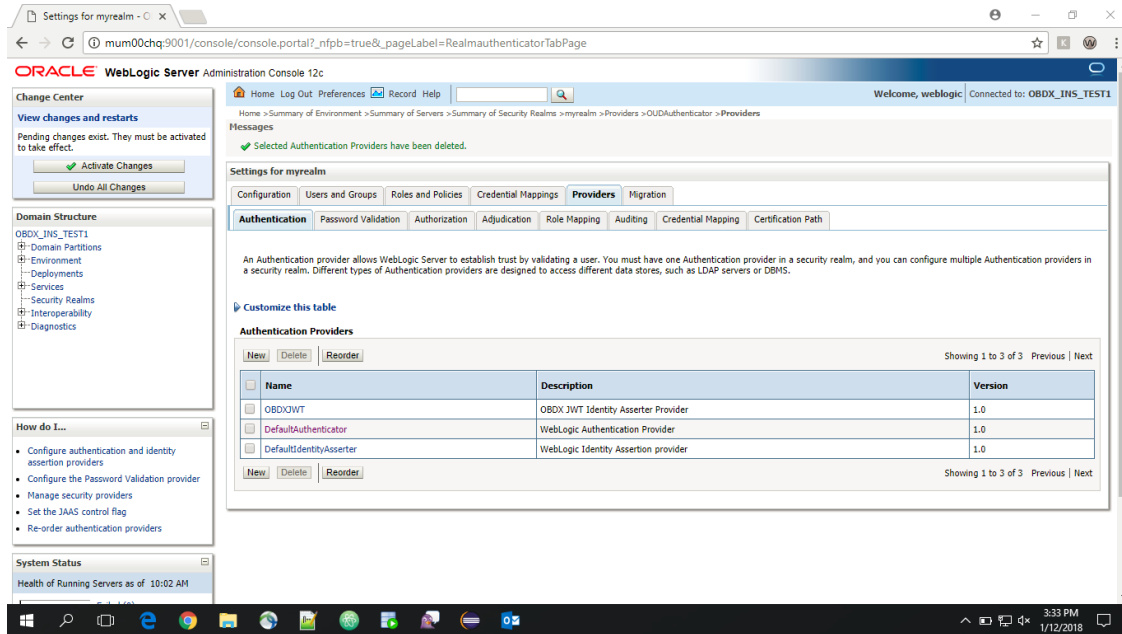
- Click on 'DefaultAuthenticator' provider and change the Control Flag to SUFFICIENT



- Click on Save button to save the changes



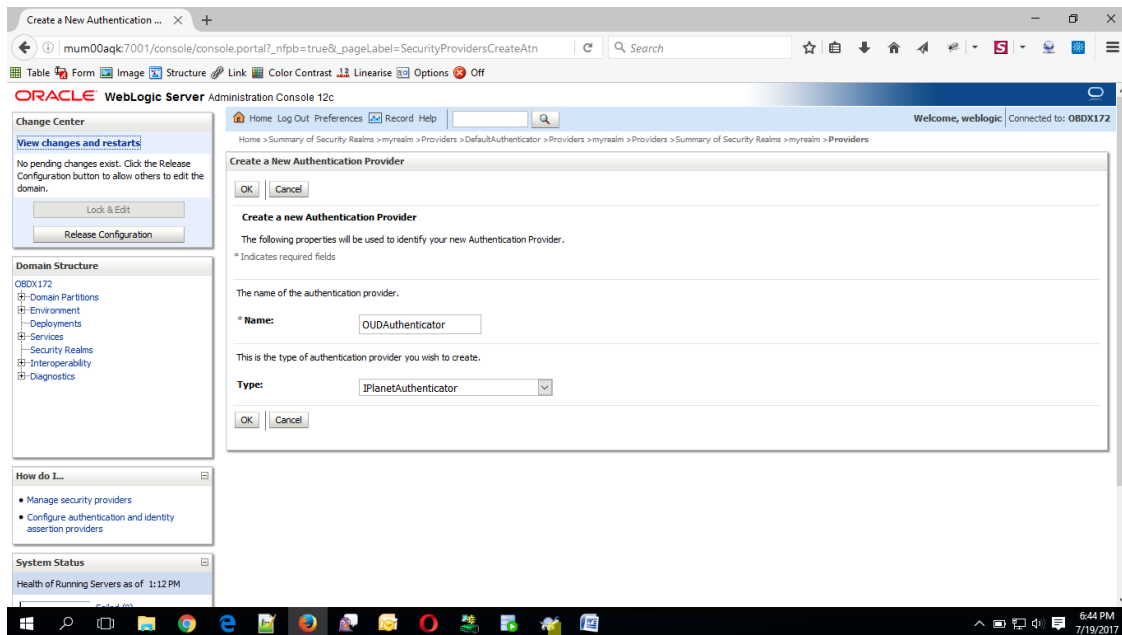
- Navigate Back to Security Realms > myrealm > Providers



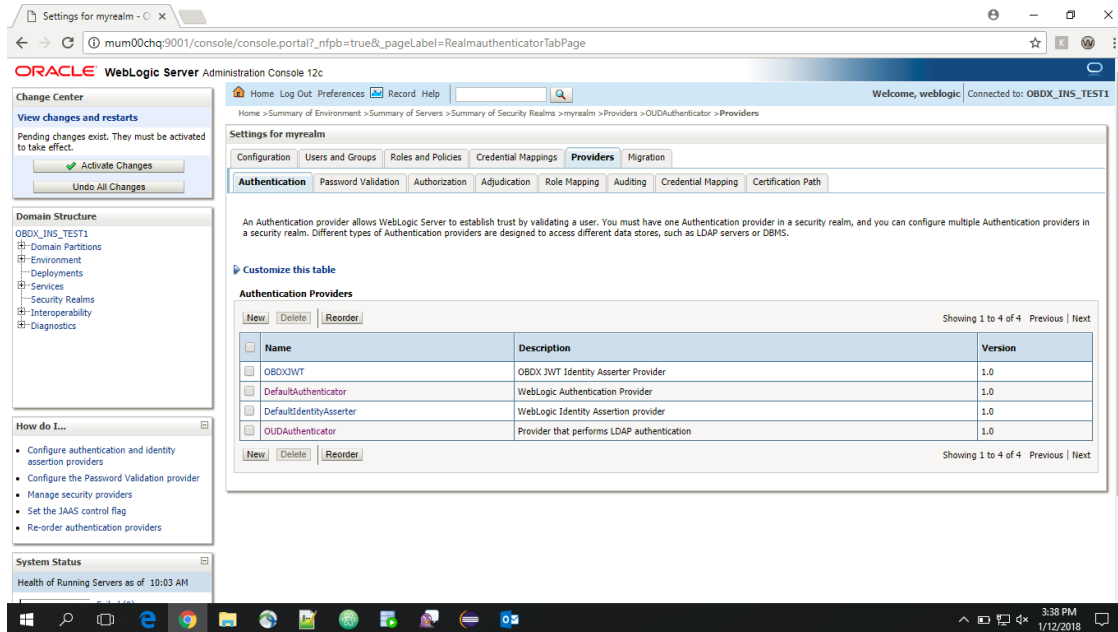
- Now, click on New and enter the below details and click Save.

Name : OUDAuthenticator

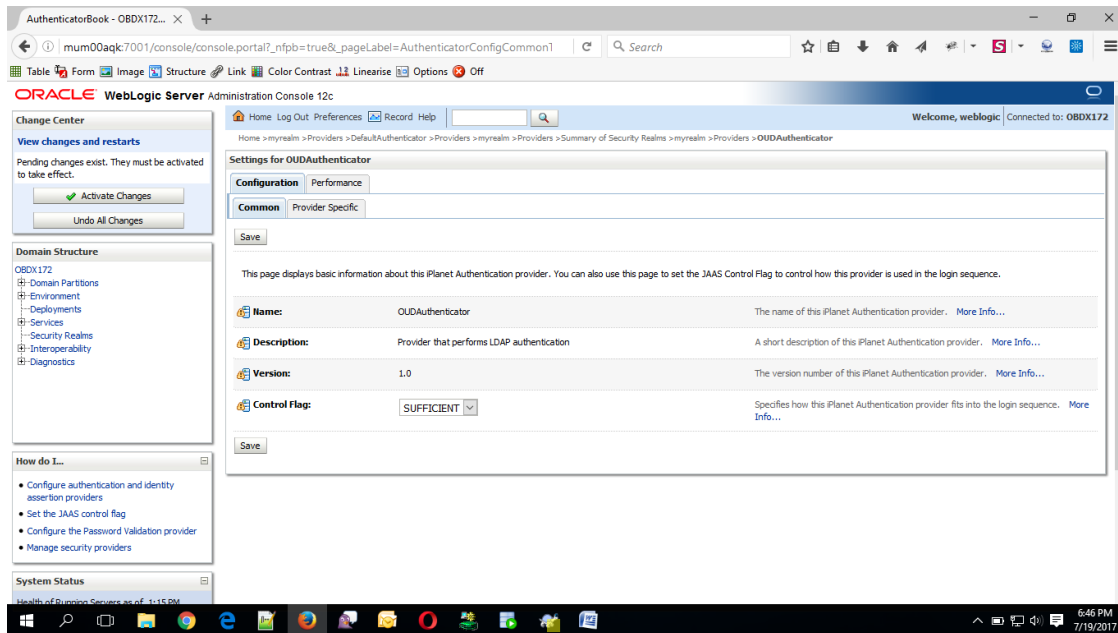
Type : OracleUnifiedDirectoryAuthenticator



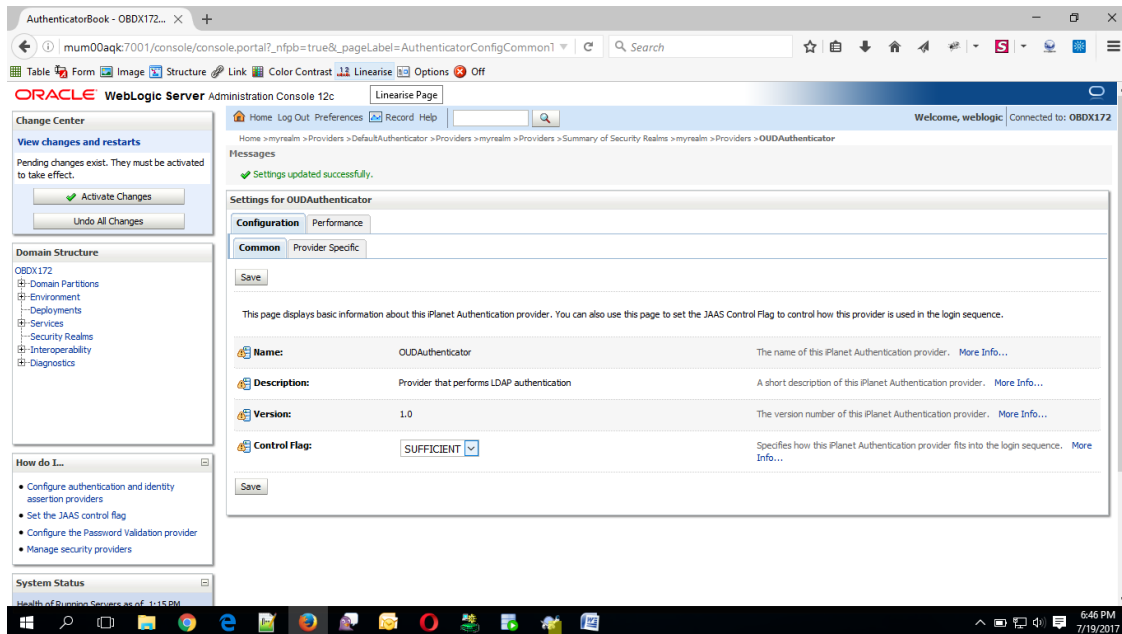
- Click on OK Button.



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

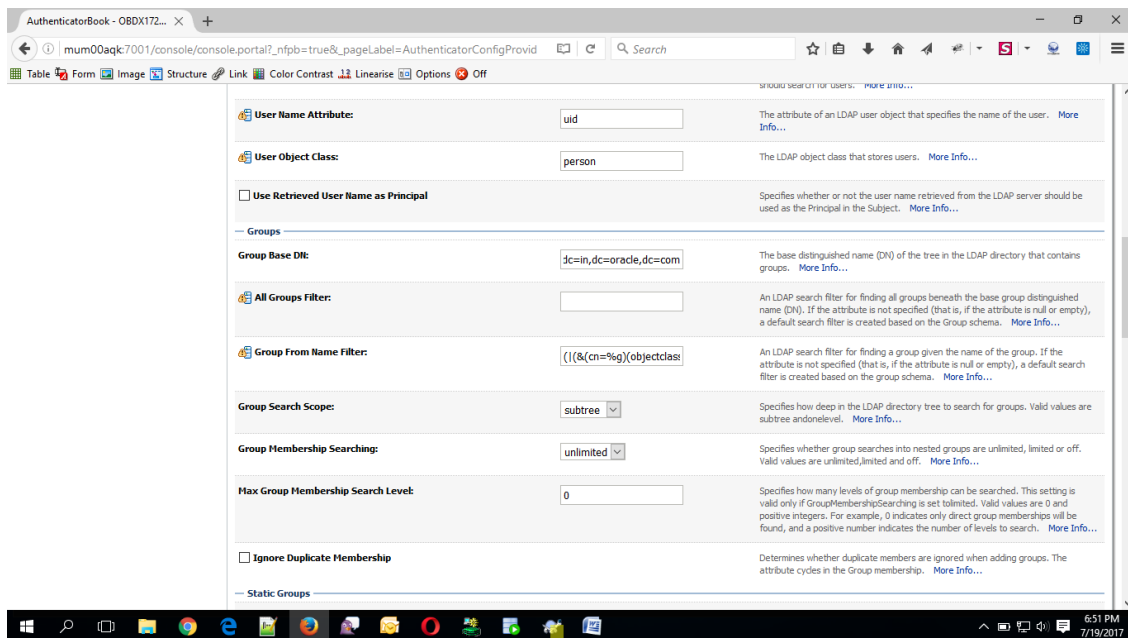
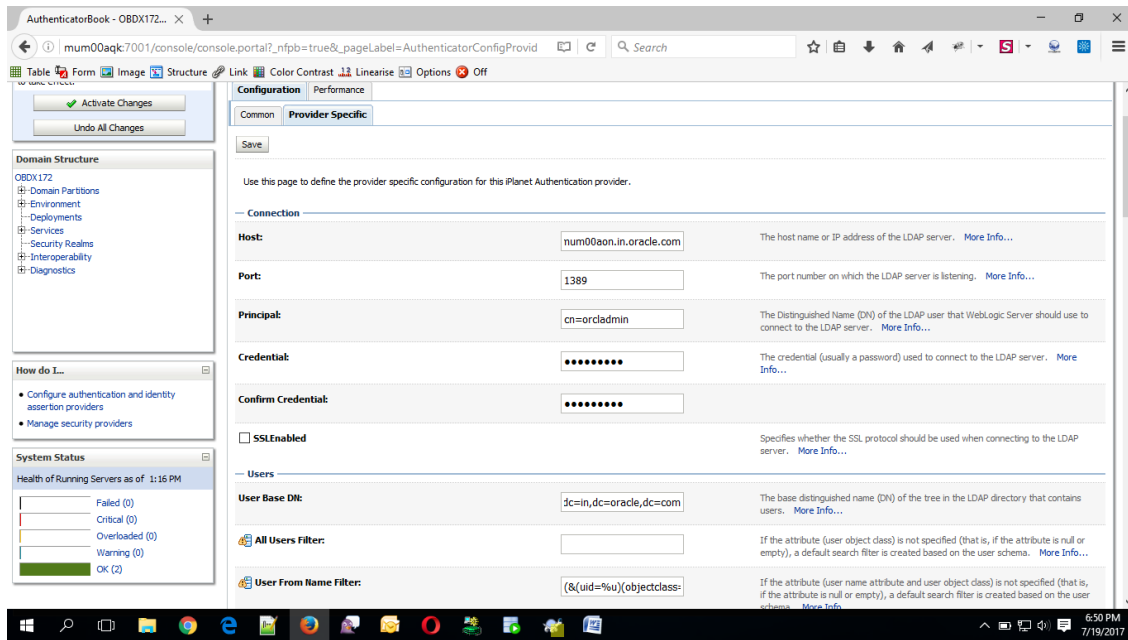


- Click on Save Button.

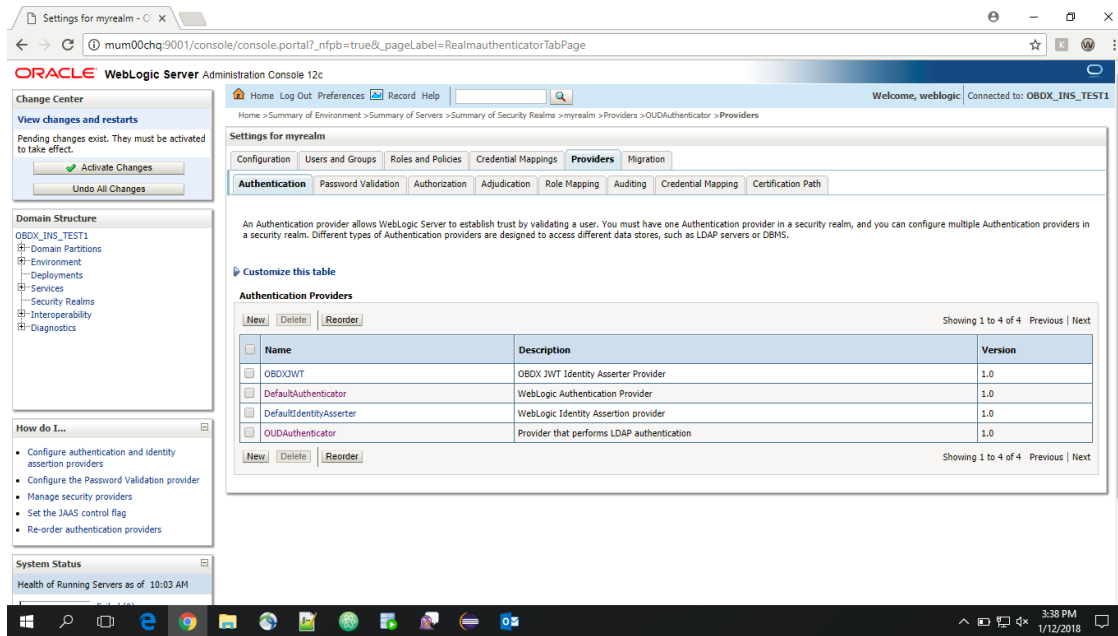


- Now under Provider Specific tab set the details of LDAP where the server should point. Refer to the following table for more information:

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



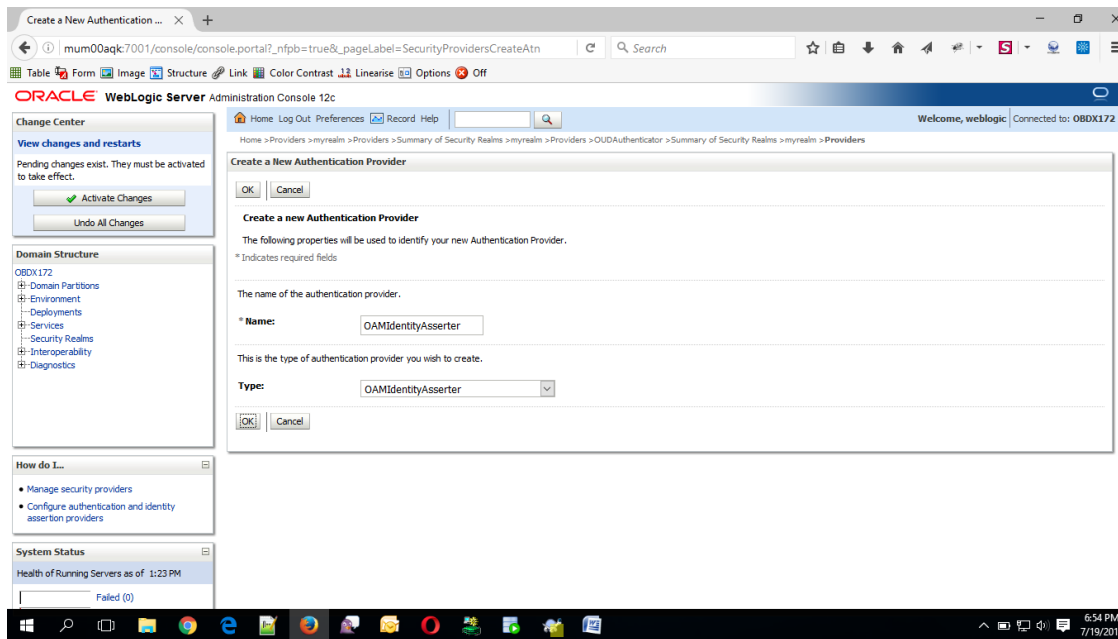
- Click on Save to update the changes.
- Navigate Back to Security Realms > myrealm > Providers



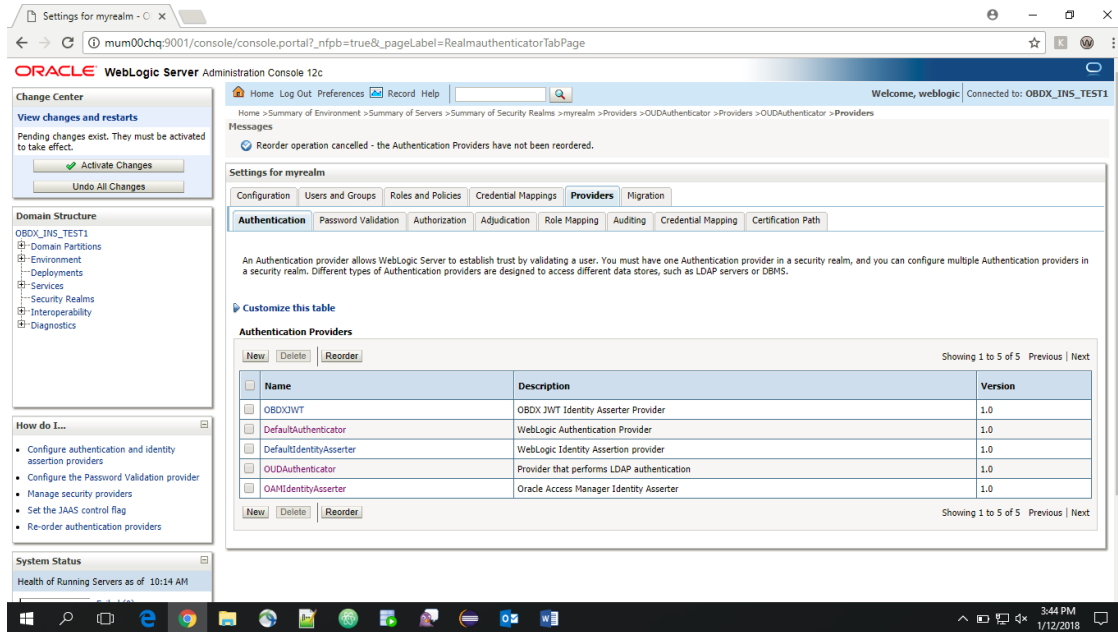
- Now, click on New and enter the below details and click Save.

Name : OAMIdentityAsserter

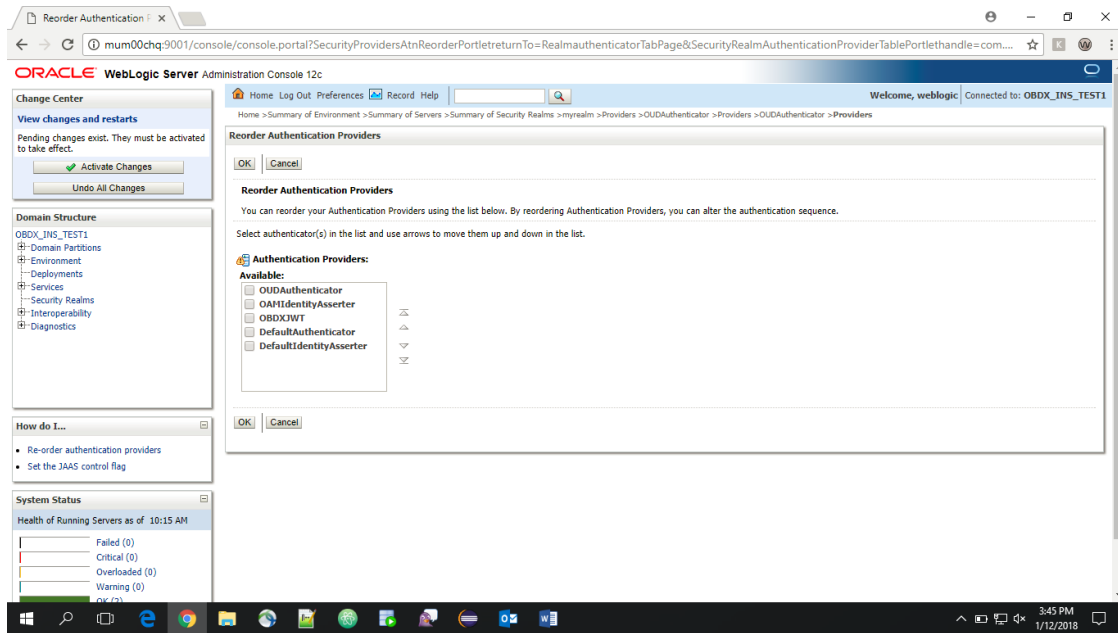
Type : OAMIdentityAsserter



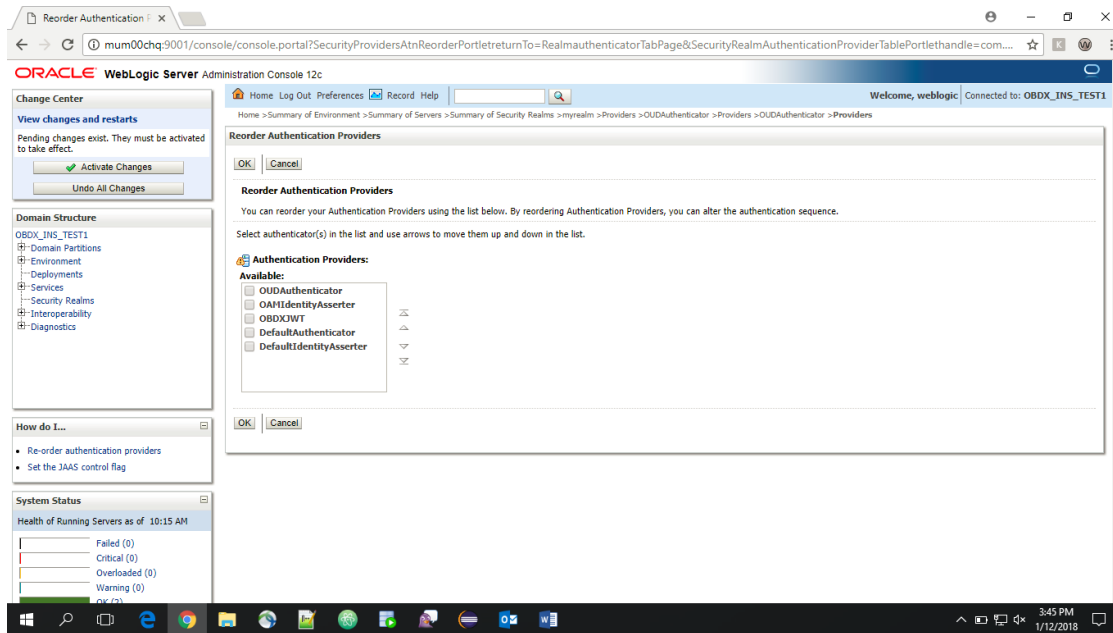
- Click on OK Button.



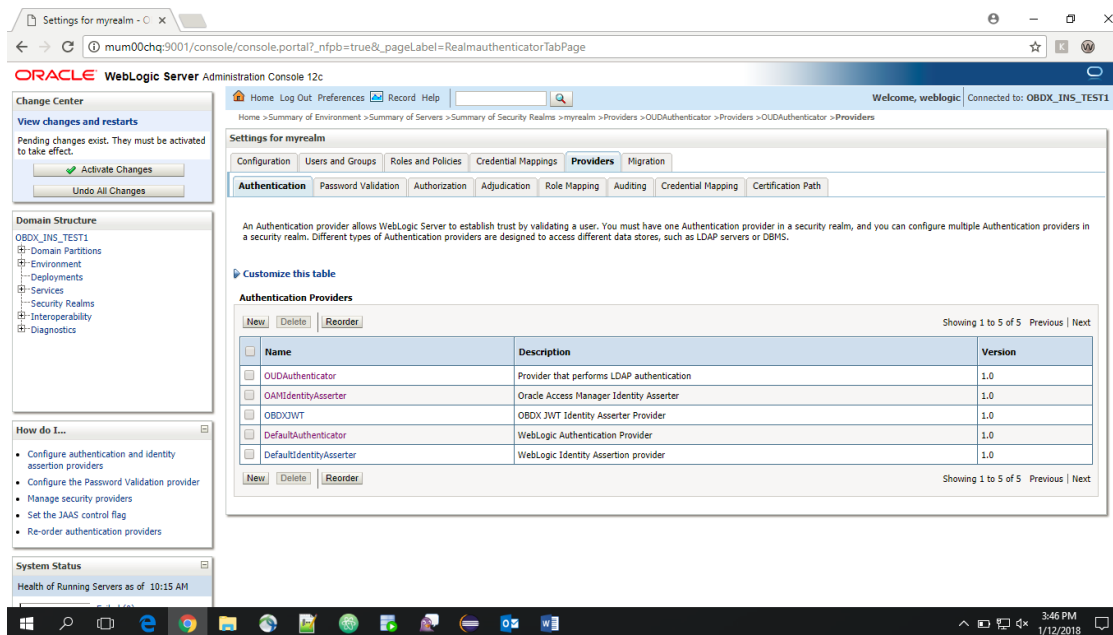
- Click on Reorder Button.



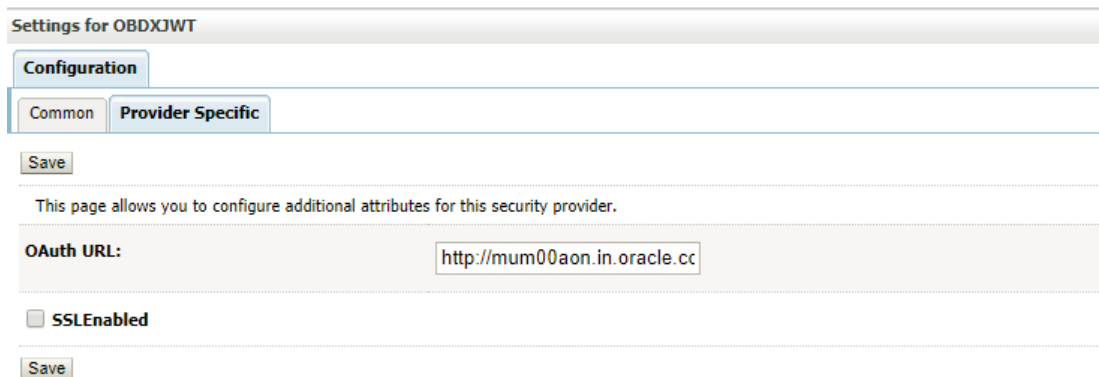
- Reorder the providers so that LDAP Provider (OUDAuthenticator) gets highest priority followed by OAMIdentityAsserter, OBDXJWT, DefaultAuthenticator, DefaultIdentityAsserter.



- Click on OK Button.

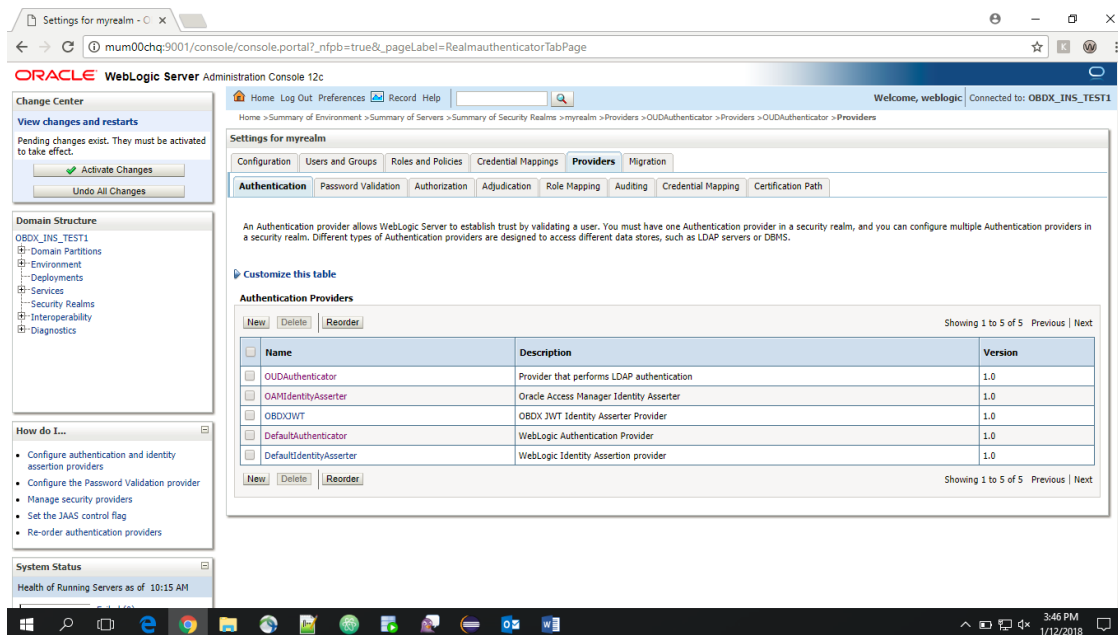


- Set the **OAuth URL for OBDXJWT**



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,OU1.0' where prop_id = '01' and category_id
= 'extxfaceadapterconfig';

```

commit;

- Restart Managed Server

Verification

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

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

The screenshot shows the Oracle WebLogic Administration Console interface. The 'Users' tab is selected under 'Settings for myrealm'. A table displays a list of users with columns for Name, Description, and Provider. The table shows 10 users, all with 'OUD' as the provider.

Name	Description	Provider
000800		OUD
000801		OUD
1207payday1@o.com		OUD
1207payday2@o.com		OUD
1207payday3@o.com		OUD
1207savings1@o.com		OUD
12jun_d1@ora.com		OUD
12jun_d2@ora.com		OUD
12jun_d3@ora.com		OUD
171040		OUD

The screenshot shows the Oracle WebLogic Administration Console interface. The 'Groups' tab is selected under 'Settings for myrealm'. A table displays a list of groups with columns for Name, Description, and Provider. The table shows 10 groups with various providers like 'DefaultAuthenticator' and 'OUD'.

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

Note: Session Timeout configuration for OAM

In web.xml of 'com.ofss.digx.appx.service.rest.war' inside 'obdx.app.rest.idm.ear', add/edit the following tag.

```
<session-config>
```

```
    <session-timeout>(Timeout in minutes)</session-timeout>
```

```
</session-config>
```

This timeout should be equal to Idle Timeout (minutes) maintained in OAM for session.

[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
- Running OBDX installer

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

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

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

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

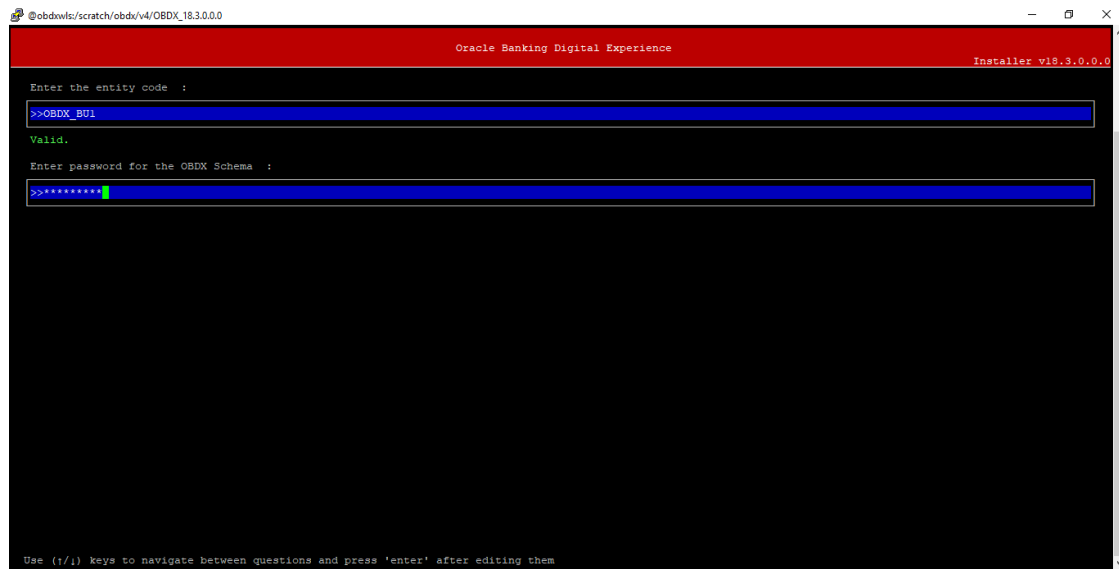
- From your terminal navigate to <OBDX INSTALLER DIR>
- Enter the following command

python runInstaller.py

Select installation type as 'New Entity Creation'



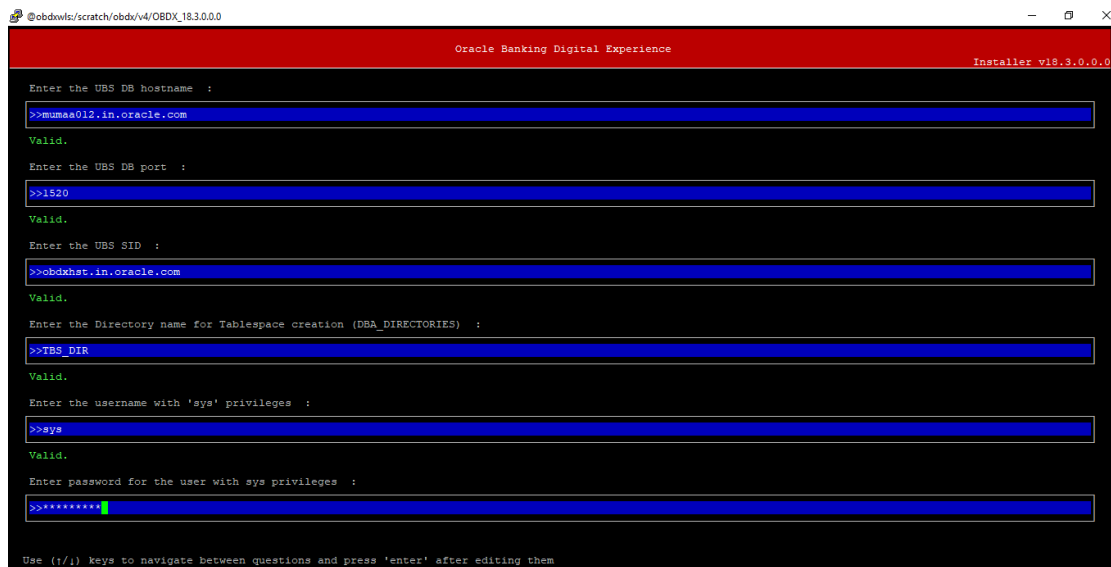
Below screen will appear after selecting add entity



Enter below information:

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

If an entity code belongs to UBS host following screen will appear:



Enter below details:

- Hostname of the UBS database host server
- Port of the UBS database host server
- UBS 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

```

@obdwmiz/scratch/obdv/v4/OBDX_18.3.0.0.0
Oracle Banking Digital Experience
Installer v18.3.0.0.0

Enter the existing UBS host schema name :
>>FCUBSI40
Valid.
Enter the password for existing UBS host schema :
>>*****
Valid.
Enter new UBS BIAL schema name :
>>BIAL_183R12
Valid.
Enter new schema password :
>>*****
Valid.
Enter country code :
>>GB

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

Enter below details:

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

Installation Status in case of UBS

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

```
@obdxwls/scratch/obdv/v4/OBDX_183.0.0.0
[devops@obdxwls OBDX_183.0.0.0]$ python runinstaller.py
Starting UBS 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 uba_object_scripts.sql started
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_0.sql successfully

Starting Entity Configuration

Calling WLST

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Connecting to t3://obdxwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "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_B1A1
```

When the installation completes, the below message is displayed

```
@obdxwls/scratch/obdv/v4/OBDX_183.0.0.0
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_0.sql successfully

Starting Entity Configuration

Calling WLST

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Connecting to t3://obdxwls.in.oracle.com:9001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "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_B1A1
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDX_BUI_B1A1 created successfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.
[devops@obdxwls OBDX_183.0.0.0]$
```


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

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

```
@obdxwls:/scratch/obdx/OBDX_Installer
[devops@obdxwls ~]$
[devops@obdxwls ~]$ export Entity_Code=OBDX_BUI
[devops@obdxwls ~]$ export SCHEMA_PASS=welcome1
[devops@obdxwls ~]$ cd /scratch/obdx/
DB_scripts/      OBDX_Installer/  logs/           ohs/            runlines/       setEnvOBDX.sh   setEnvOBPM141.sh  setEnvUBS141.sh
Extensibility/   OBDX_Installer.zip  logs/          python_scripts/ setEnvFCORE.sh  setEnvOBP.sh    setEnvUBS.sh      testubs141/
NonUBS_properties/  UBS_properties/    obpm141_test/  runInstaller.py  setEnvVLL.sh   setEnvOBPN.sh   setEnvUBS124.sh  wls/
[devops@obdxwls ~]$ cd /scratch/obdx/OBDX_Installer/
[devops@obdxwls OBDX_Installer]$ ls -ltr
total 20
drwxrwxrwx 12 54322 54322 4096 Dec  5 01:14 testubs141/
-rwxrwxrwx  1 54322 54322   0 Dec  5 01:14 __init__.py
-rwxrwxrwx  1 54322 54322 2589 Dec 13 17:15 runInstaller.py
drwxrwxrwx  5 54322 54322 4096 Dec 16 17:59 wls/
drwxrwxrwx  5 54322 54322 4096 Dec 16 17:59 testubs141/
drwxrwxrwx  3 54322 54322 4096 Dec 16 17:59 testubs124/
[devops@obdxwls OBDX_Installer]$ python runInstaller.py --silent --addEntity
Password validated for OBDX_183INS
No additional EBI and weblogic configuration
[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 v16.3.0.0.0

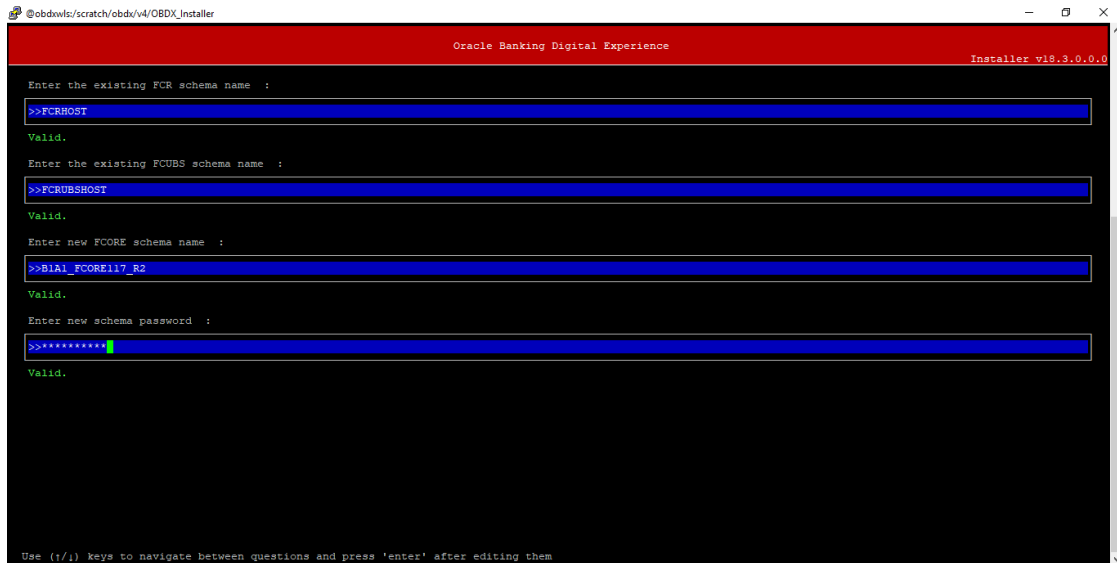
Enter the FCORE DB hostname :
>>muma012.in.oracle.com
Valid.
Enter the FCORE DB port :
>>1520
Valid.
Enter the FCORE SID :
>>obdKhet.in.oracle.com
Valid.
Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
>>TBS_DIR
Valid.
Enter the username with 'sys' privileges :
>>sys
Valid.
Enter password for the user with sys privileges :
>>*****

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_1931M3
password validated for eye

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

```

```

@obdwws/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://obdwws.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@obdwws OBDX_Installer]$

```

No additional steps/ configuration are required.

If an entity code belongs to Oracle FLEXCUBE Universal Banking with Oracle Banking Payments host following screen will appear:

```

@obdwws/scratch/obdx/v4/obdx_installer
Oracle Banking Digital Experience
Installer v18.3.0.0.0

Enter the UBS141 DB hostname :
>>mumaa012.in.oracle.com
Valid.

Enter the UBS141 DB port :
>>1520
Valid.

Enter the UBS141 SID :
>>obdxhat.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 :
>>*****

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

```

Enter below details:

- Hostname of the OBPM database host server
- Port of the OBPM database host server
- OBPM 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 OBPM schema would be created
- Weblogic console administrator user password

Oracle Banking Digital Experience Installer v18.3.0.0.0

Enter the OBPM141 DB hostname :

>>mmmaa012.in.oracle.com

Valid.

Enter the OBPM141 DB port :

>>1520

Valid.

Enter the OBPM141 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 :

>>*****

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

Enter below details:

- EXISTING OBPM HOST schema name
- EXISTING OBPM HOST password
- Complete EHMS (HostInterface) schema name you want installer to create as new schema
- Password for New EHMS schema
- Enter Country code for Additional entity

Installation status for OBPM 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@obdxwls ~]$ OBDM_Installer$
[devops@ ~]$ OBDM_Installer$ python runInstaller.py

Starting OBPM141 Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Roles Created
Executing Grants...
Executing OBPM 14.1 Grants...
Execution of table-scripts.sql started
Execution of table-scripts.sql completed
Execution of uba_object_scripts.sql started
Execution of uba_object_scripts.sql completed
Execution of obpm_object_scripts.sql started
Execution of obpm_object_scripts.sql completed
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
Execution of obpm-seeds.sql started
Execution of obpm-seeds.sql completed
SUCCESSFULLY installed OBPM141 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 "OBDM183INS".

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.
```

```
@obdxwls/scratch/obdx/v4/OBDM_installer
Execution of execute-seeds.sql started
Execution of execute-seeds.sql completed
Execution of obpm-seeds.sql started
Execution of obpm-seeds.sql completed
SUCCESSFULLY installed OBPM141 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 "OBDM183INS".

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 OBDM_BUI_BI1
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
OBDM_BUI_BI1 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 OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBDM 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 (14.0.0.0.0 and.14.1.0.0.0 release) OBPM (14.0.0.0.0 and.14.1.0.0.0 release)	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU7
	SCHEMA_PASS	Password for existing OBDX schema	export SCHEMA_PASS=devops#obdx182
	ENTITY_EHMS_DATABASE_HOSTNAME	Hostname of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_HOSTNAME=mumaa012.in.oracle.com
	ENTITY_EHMS_DATABASE_PORT	Port of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_PORT=1521
	ENTITY_EHMS_DATABASE_SID	EHMS Host database	export ENTITY_EHMS_DATABASE_SID=obd

		Service Name	xdb.in.oracle.com
ENTITY_EHMS_DBA_DIRECTORY_NAME	Oracle Directory name in which you want the EHMS (HostInterface) schema datafile (dbf). Enter only the name and NOT the path		export ENTITY_EHMS_DBA_DIRECTORY_NAME=TBS_DIR
ENTITY_EHMS_DATABASE_SYS_USER	Username with 'sys' privileges		export ENTITY_EHMS_DATABASE_SYS_USER=sys
ENTITY_EHMS_DATABASE_SYS_PASS	Password for EHMS sys user		export ENTITY_EHMS_DATABASE_SYS_PASS=devops@sys
ENTITY_EHMS_SCHEMA_NAME	Complete EHMS (HostInterface) schema name you want installer to create as new schema.		export ENTITY_EHMS_SCHEMA_NAME=OBDXEHMS
ENTITY_EHMS_SCHEMA_PASS	Password for new EHMS schema on EHMS HOST database		export ENTITY_EHMS_SCHEMA_PASS=devops#ehms
ENTITY_EHMS_HOST_SCHEMA_NAME	EXISTING EHMS Host schema name		export ENTITY_EHMS_HOST_SCHEMA_NAME=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:	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
OBDX (Third-party HOST)			
OBP			

- 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.

```
@obdxwls/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://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_BI41
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_BI41 created successfully.

Exiting WebLogic Scripting Tool.

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

When the installation completes, the below message is displayed

```
@obdxwls/scratch/obdx/OBDX_Installer
Execution of 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://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_BI41
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_BI41 created successfully.

Exiting WebLogic Scripting Tool.

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

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

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

Installation Status in case of other hosts as Add Entity

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

- THP(third party as entity)

```
[devops@ OBDX_Installer]$ python runInstaller.py --silent --addEntity
Password validated for OBDX_183INS
Execution of DB script for OBDX_BUI started
Executed DIOX_FW_CONFIG_ALL_0.sql successfully
Execution completed.
```

- OBP

```
[devops@ OBDX_Installer]$ python runInstaller.py --silent --addEntity
Password validated for OBDX_183INS
No additional BIAI and weblogic configuration
```

[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. PDF Password configuration

This entry must be deleted if no password is required.

delete from digx_fw_config_all_b where prop_id='PDF_PASSWORD_HELPER';

Out of box logic is firstname + last name (taking first 4 chars removing .) + ddMM (of users date of birth) -
com.ofss.digx.common.util.PDFPasswordHelper

Custom class can be updated here similar to above class, if bank want to change pdf password logic.

17. 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:



```

Oracle Banking Digital Experience

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

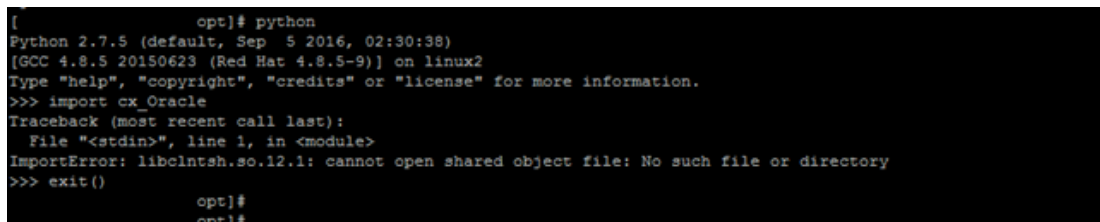
Try one of the following:

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

cx_oracle module

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

If you get the following error:



```

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

[opt]#
[orcl]#
  
```


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/FCDB_COMPILE_SCHEMA.sql successful
2017-07-13 13:43:42,898 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/entity_objects/VW/fcat_vw_account_movements1.vw successful
2017-07-13 13:43:42,898 DEBUG total scripts=652
2017-07-13 13:43:42,898 DEBUG scripts successfully executed=644
2017-07-13 13:43:42,911 DEBUG Running execute-seeds.sql
2017-07-13 13:43:42,911 DEBUG Executing /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/execute-seeds.sql
2017-07-13 13:44:02,450 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/APPLDATA.sql successful
2017-07-13 13:44:15,511 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/APPLICATIONMESSAGE.sql successful
2017-07-13 13:44:15,521 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTAPPSEQUENCE.sql successful
2017-07-13 13:44:15,616 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTENTITYNETWORKCODES.sql successful
2017-07-13 13:44:17,379 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTHOSTAPPDATAMAP.sql successful
2017-07-13 13:44:19,485 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTHOSTINTERFACE.sql successful
2017-07-13 13:44:21,468 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTPRODUCTMAP.sql successful
2017-07-13 13:44:27,224 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTPROPERTIES.sql successful
2017-07-13 13:44:28,770 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTQUERY.sql successful
2017-07-13 13:45:39,980 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTUIDOWNLOADPARAMS.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/MSTENTITYUSERYPELANG.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"
"INS-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' "INS-
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' "INS-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'
"INS-
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' "INS-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.

18. 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](#)