Installation Guide
Oracle Banking Digital Experience
Release 21.1.0.0.0

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Installation Guide

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

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

1.3 Access to Oracle Support

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

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

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

1.4 Structure

This manual is organized into the following categories:

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

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 21.1.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

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

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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"** .

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

```
bash-4.2# rpm -qa | grep oracle
oraclelinux-release-7.7-1.0.5.el7.x86_64
oracle-epel-release-el7-1.0-2.el7.x86_64
oracle-instantclient19.3-basic-19.3.0.0.0-1.x86_64
oraclelinux-release-el7-1.0-8.el7.x86_64
oracle-release-el7-1.0-2.el7.x86_64
bash-4.2#
```

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

Python:

Step 1: Execute python –V command

python -V

```
bash-4.2# python3 -V
Python 3.8.0
bash-4.2#
```

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 3.8.0 version should be available in PATH variable. Above execution should be done using Python 3.8.0.

Step 2: Import Urwid and check version

import urwid (Press Enter)

urwid.__version__

```
bash-4.2# python3
Python 3.8.0 (default, Mar 23 2021, 21:01:27)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-44.0.3)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import urwid
>>> urwid.__version__
'2.1.2'
>>>
```

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

Note: Ensure Urwid 2.1.2 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

```
bash-4.2# python3
Python 3.8.0 (default, Mar 23 2021, 21:01:27)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-44.0.3)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import cx_Oracle
>>> cx_Oracle.version
'8.1.0'
>>>
```

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

Note: Ensure cx_Oracle 8.1.0 supported version is installed. Above command should reflect the same.

Python 3.8 for Linux Operating System : --

Step 1: Execute below commands to install the dependencies

yum -y groupinstall development

yum -y install zlib-devel

yum install openssl-devel -y

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

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

yum install python38-pip -y

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

yum install -y libffi-devel

yum install python36u-devel -y

yum install python38u-devel -y

yum install yum-utils -y

yum install epel-release -y

yum install python3.8-pip -y

yum install python3-pip -y

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

yum install wget

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

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

#Untar the Python tar file

tar xJf Python-3.8.0.tar.xz

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

cd Python-3.8.0

./configure

make

make install

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

```
cd /root

mkdir .pip

vi ~/.pip/pip.conf

[global]

trusted-host = pypi.python.org

               pypi.org

               files.pythonhosted.org
```

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

Note: pip version 20.1.1

```
ln -s ~/.pip/pip.conf /etc/pip.conf

ls -lrt ~/.pip/pip.conf

chmod 777 /root/.pip/pip.conf

ls -lrt ~/.pip/pip.conf

pip3 list

pip3 install --upgrade pip
```

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

```
pip3 install cx-Oracle==8.1.0

pip3 install urwid==2.1.2
```

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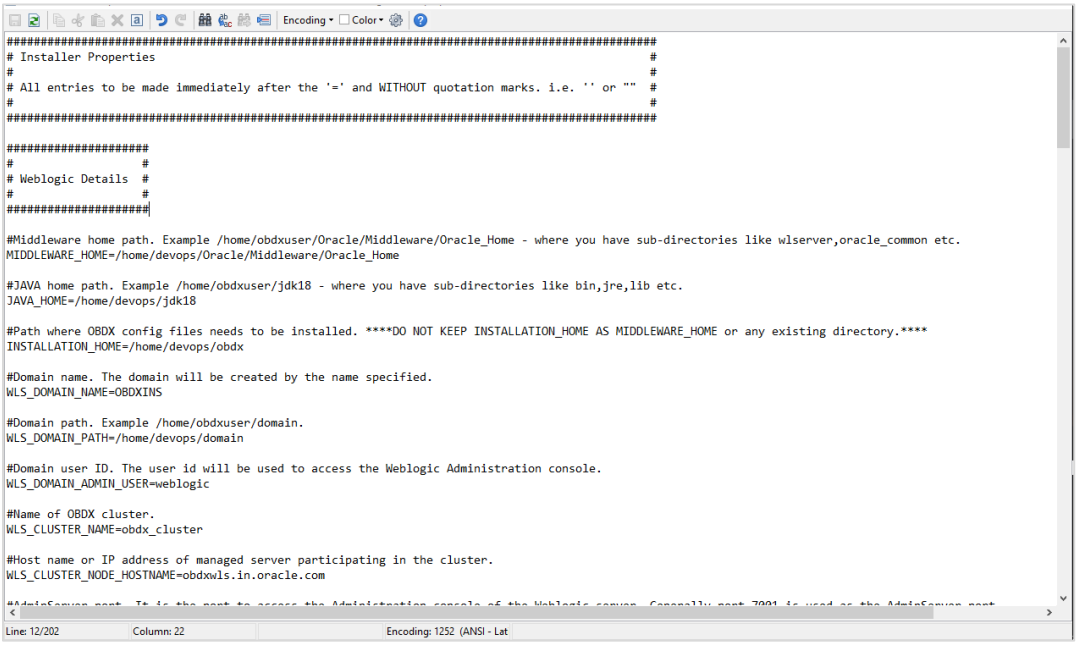
4. Installation

Pre-Installation

- Install all the prerequisite software and packages mentioned above

Steps of Installation

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



IMPORTANT:

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

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

Component	Parameter	Description	Example
DB details (for Weblogic RCU and OBDX schema)	**OBDX_DATABASE_HOST NAME**	Enter the hostname of the database server which would host the database schema for OBDX and Weblogic RCU	abc.xyc.com
	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_U SER	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_DIREC TORY_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	abc.xyz.com
	EHMS_DATABASE_PORT	Enter the port number of EHMS database listener	1521
	EHMS_SCHEMA_NAME	Enter the Complete OBDX-EXT (B1A1) HostInterfaceschema name you want installer to create as new schema. **SHOULD BE IN UPPERCASE ONLY.**	EHMS182SCHEMA
	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_DATABASE_SYS_USER	Enter the username with 'sys' privileges	Sys
	EHMS_DATABASE_SID	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 wlserver,oracle_common etc.	/home/obdxuser/Oracle/Middleware/Oracle_Home
	JAVA_HOME	Path where JAVA (JDK) is installed	/home/obdxuser/jdk18
	INSTALLATION_HOME	Path where OBDX is to be installed. All configuration files will be copied as a sub-directory “config” under this directory. **DO NOT KEEP INSTALLATION_HOME AS MiddlewareHome**.	/home/obdxuser/obdx
	WLS_DOMAIN_PATH	Path where OBDX Weblogic domain should be created. Users can now enter custom path as per their requirements.	/home/obdxuser/domains
	WLS_CLUSTER_NAME	Name of cluster; this cluster would have one single managed server.	obdx_cluster
	WLS_CLUSTER_NODE_HOSTNAME	Host name or IP address of managed server participating in the cluster. **Currently only single node is supported.**	abc.xyz.com
	WLS_ADMIN_SERVER_PORT	Weblogic AdminServer port. It is the port to access the administration console of the Weblogic server. Generally port 7001 is used as the AdminServer port. **Custom port are supported.**	7001
	WLS_ADMIN_SERVER_SSL_PORT	AdminServer SSL port. It is the port used to securely access (https) the administration console of the Weblogic server.	7002
	WLS_NODE_PORT	Node Manager Port. It is the port used by Node Manager to be configured for OBDX domain.	5556

		Generally, 5556 is utilized as Node Manager Port. **Custom ports are supported.**	
	WLS_MS_SERVER_NAME	Managed server name. This will be the name of the managed server created in the cluster followed by indexes. eg- **If this is set as 'clip' managed servers would be clip1**.	clip
	WLS_MS_SERVER_PORT	Managed Server Port. Managed server will utilize this port for hosting OBDX components and associated resources. **Custom ports are supported.**	9001
	WLS_DOMAIN_NAME	Enter Weblogic Domain name.	obdx_domain1
	WLS_DOMAIN_ADMIN_USER	Domain user ID. The user id will be used to access the Weblogic Administration console.	weblogic
	WLS_JMS_FILEUPLOAD_PS (to be configured for all OBDX supported HOST)	Set the paths for the persistent store of the FileUpload JMS modules. **DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.**	/scratch/obdx/FileUpload
	WLS_JMS_AUDIT_PS (to be configured for all OBDX supported HOST)	Set the paths for the persistent store of the Audit JMS modules. **DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.**	/scratch/obdx/Audit
	WLS_JMS_REPORT_PS (to be configured for all OBDX supported HOST)	Set the paths for the persistent store of the Reports JMS modules. **DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.**	/scratch/obdx/Reports
	WLS_JMS_JPA_PS (to be configured for all OBDX supported HOST)	Set the paths for the persistent store of the JPA JMS modules. **DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.**	/scratch/obdx/JPA

	WLS_JMS_EXTSYSRECEIVER_PS **(to be configured for all OBDX supported HOST)**	Set the paths for the persistent store of the ExtSystemReceiver JMS modules. **DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.**	/scratch/obdx/Receiver
	WLS_JMS_EXTSYSSENDER_PS **(to be configured for all OBDX supported HOST)**	Set the paths for the persistent store of the ExtSystemSender JMS modules. **DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.**	/scratch/obdx/Sender
RCU	**OBDX_RCU_STB_PREFIX**	STB schema name prefix. If schema pre-fix is 'OBDX' then 'OBDX_STB' would be the STB schema name.	OBDX_STB
OBDX Application Administrator user details	**OBDX_ADMIN_USERNAME**	Set username for OBDX application Admin user. **USERNAME IS CASE SENSITIVE. In-case of OUD as provider username should be the User ID mentioned during user creation steps mentioned in pre-requisite document (refer To create User and mapping it to the Group section)**	superadmin
	OBDX_ADMIN_EMAIL	Enter the Email ID for OBDX application admin user.	superadmin@oracle.com
	OBDX_ADMIN_CONTACT_NO	Enter the mobile number for OBDX application admin user. **COUNTRY CODE IS MUST.**	+911234567890

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

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

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

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

Installation Steps:

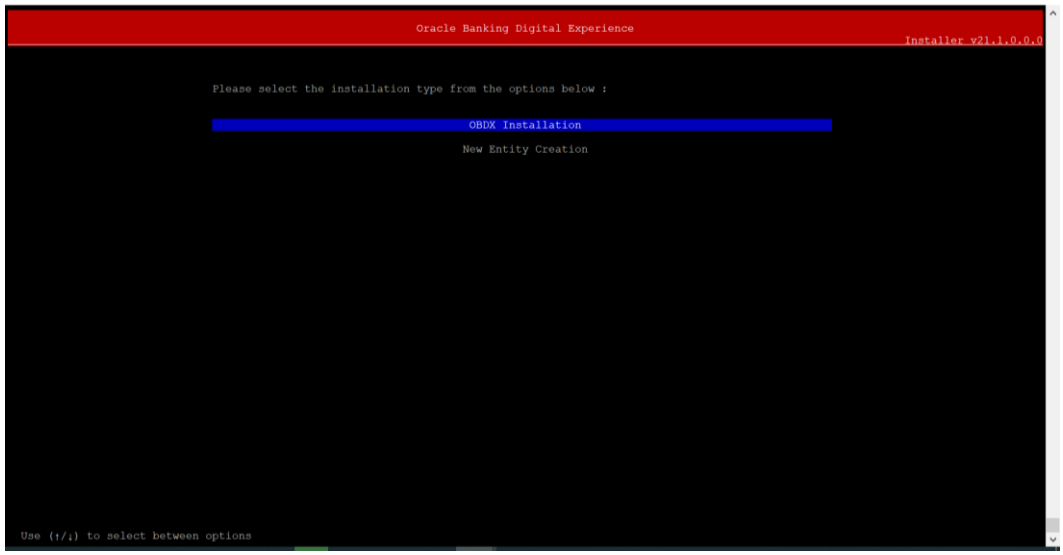
- From your terminal navigate to <OBDX INSTALLER DIR>/

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

- Enter the following command

Python3 runInstaller.py

Select the appropriate type of Installation



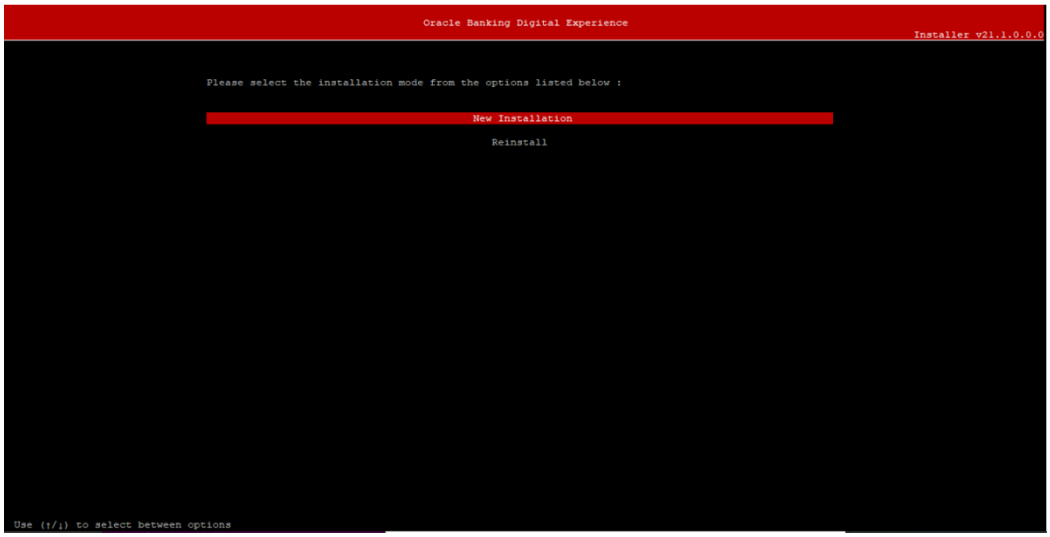
- OBDX Installation: This option should be used for first-time installation or for first entity only. Existing installation should not utilize this option unless performing “Reinstall” on already installed environment.
- New Entity Creation: This option should be used for multi-entity installation only.

Post selection of installation type.

Select the appropriate host system for Installation

Oracle FLEXCUBE Universal Banking (OBDX with UBS)

Select Installation mode



Mode of Installation - New Installation

- New installation

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

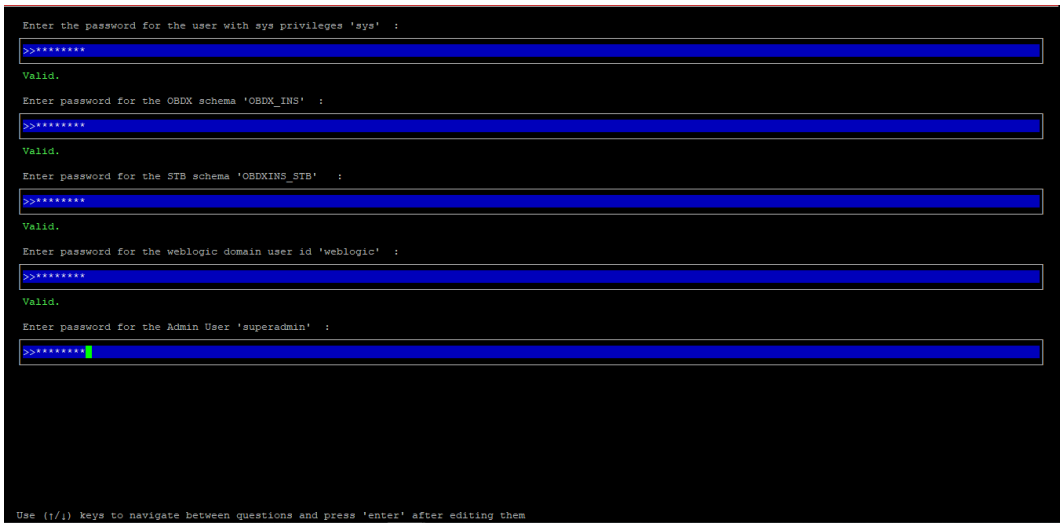
Below screens would appear to taken end-user input

Enter below passwords:

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

Third Party System (OBDX with THP)

Post Third Party System selection, enter the required credentials details



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))

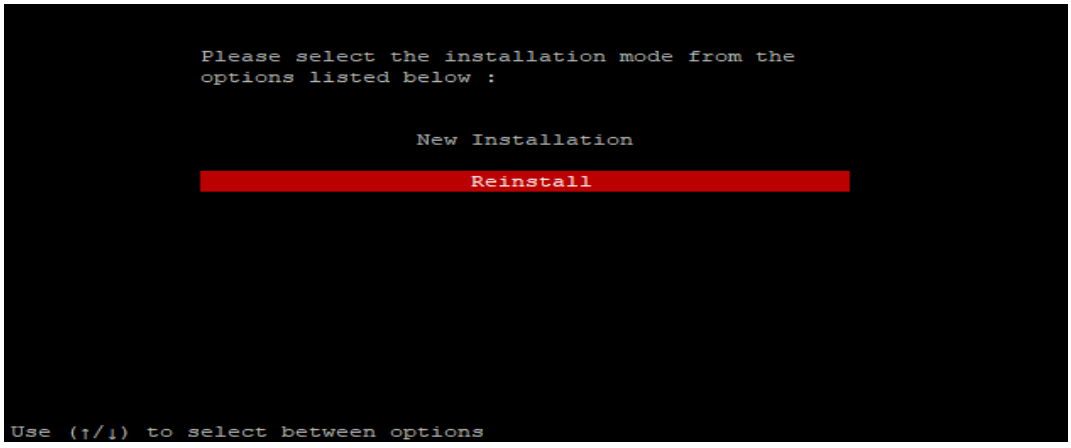
Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBDX with OBPM)

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.

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

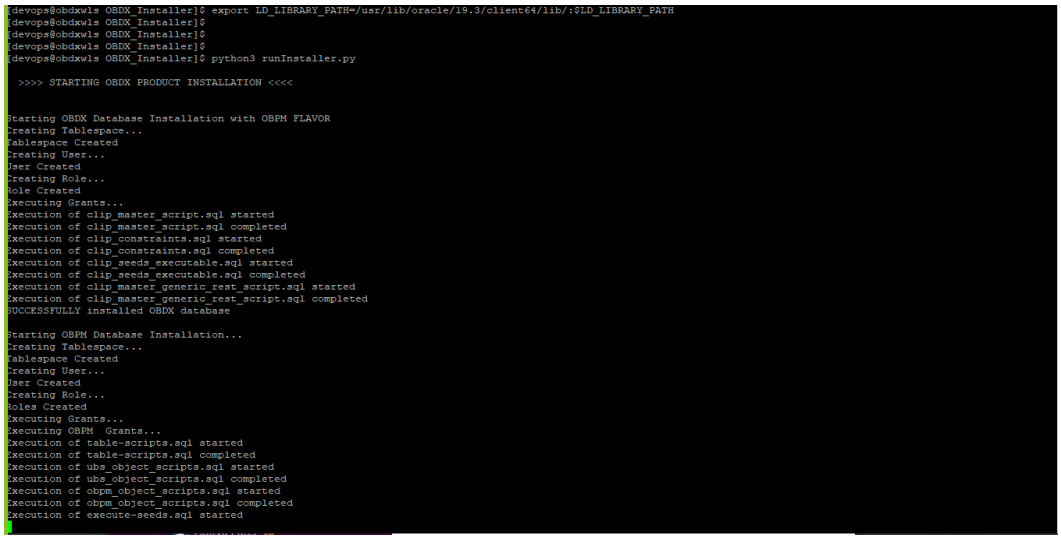
  Key pointers

- 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.

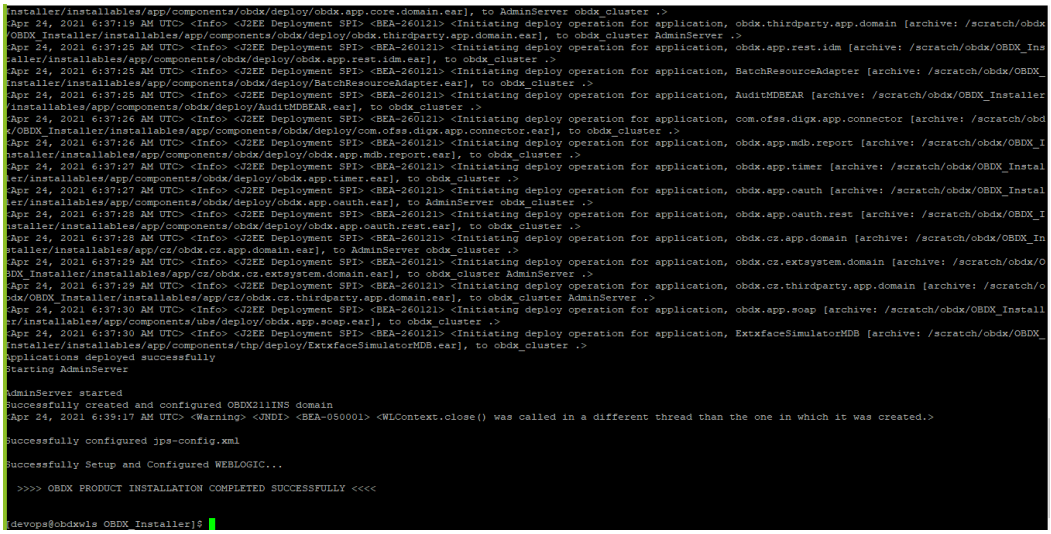
Note: All input screens are similar to new installation option and as per the host system opted.

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.



When the installation completes, the below message is displayed



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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

```
export FLAVOUR=OBPM
export MODE=New
export DB_SYS_PASSWORD=welcome1
export SCHEMA_PASS=welcome1
export STBPassword=welcome1
export DomainPassword=welcome1
export EHMS_DATABASE_SYS_PASS=welcome1
export EHMS_HOST_SCHEMA_NAME_PASS=welcome1
export EHMS_SCHEMA_PASS=welcome1
export DBAuthPassword=welcome1
export LD_LIBRARY_PATH=/usr/lib/oracle/19.10/client64/lib/:$LD_LIBRARY_PATH
```

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

Host	Parameter	Description	Example
Environment variables to set for flavor:UBSFCORE	**FLAVOUR**	Flavour for installation **UBS** for Oracle FLEXCUBE Universal Banking 14.4.0.0.0 (OBDX with UBS) **FCORE** for Oracle FLEXCUBE Core Banking 11.8.0.0.0 (OBDX with FCORE)	**export FLAVOUR=OBPM** **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 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=obdx182#stb**

	DomainPassword	Password for Weblogic Administrator console	**export DomainPassword=wlsadmn**
	EHMS_DATABASE_SYS_PASS	Sys user password of EHMS HOST database (Existing)	**export EHMS_DATABASE_SYS_PASS =obdxehmssys**
	EHMS_HOST_SCHEMA_NAME_PASS **** Only required for UBS & OBPM Host. Ignore this parameter in-case of FCORE Host**	Password of existing EHMS HOST schema (Existing)	**export EHMS_HOST_SCHEMA_NAME_PASS =obdxehmshost**
	EHMS_SCHEMA_PASS	Password for new OBDX EHMS schema on EHMS HOST database	**export EHMS_SCHEMA_PASS=obdx182ehms**
	DBAuthPassword	Password for new OBDX Administrator user of OBDX application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	**export DBAuthPassword=obdxadmn**
Environment variables to set for flavor:	**FLAVOUR**	Flavour for installation **'OBDX'** for Third Party System 1.0 (OBDX with THP)	**export FLAVOUR=OBDX**
	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**

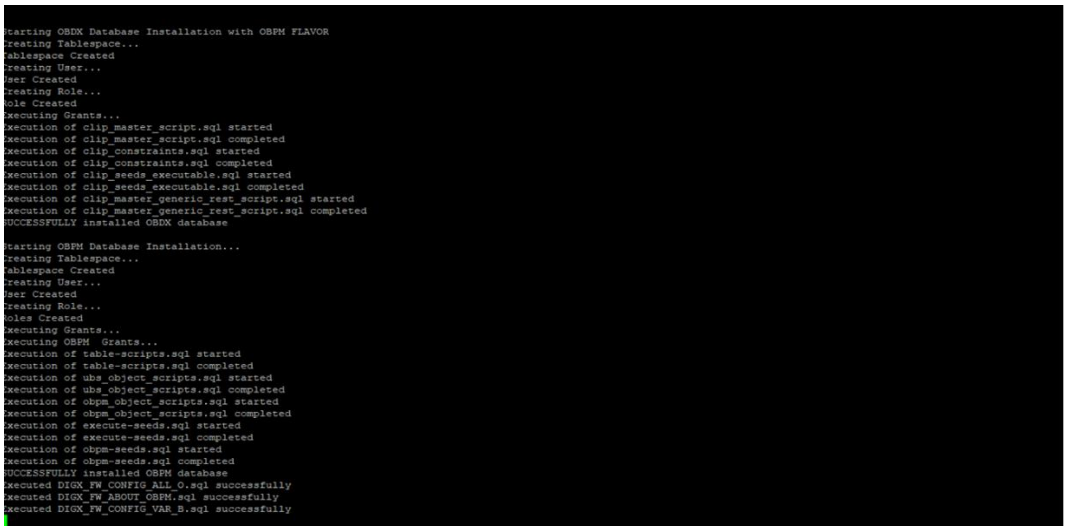
OBDX (Third-party HOST)	**DB_SYS_PASSWORD**	Sys user password of OBDX database (Existing)	**export DB_SYS_PASSWORD= obdx182sys**
	SCHEMA_PASS	Password for new schema on OBDX database	**export SCHEMA_PASS=obdx#182**
	STBPassword	Password for RCU STB schema	**export STBPassword=obdx#stb**
	DomainPassword	Password for Weblogic Administrator console	**export DomainPassword=wlsadmn**
	DBAuthPassword	Password for new OBDX Administrator user of OBDX application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	**export DBAuthPassword=obdxadmn**

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

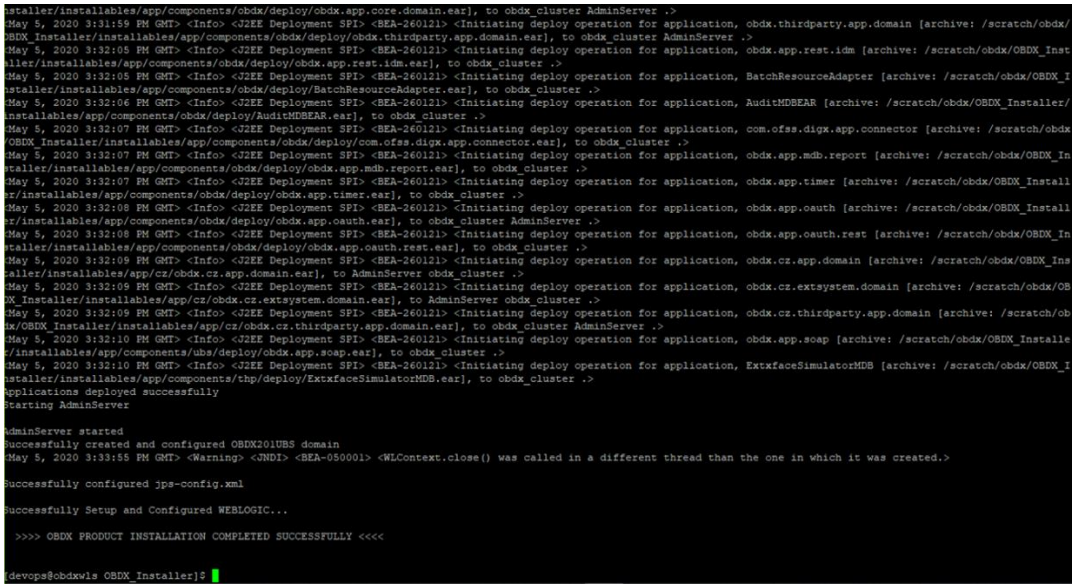
```
[devops@obdxwls OBDX_Installer]$ python3 runInstaller.py --silent --base
```

Installation Status

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



When the installation completes, the below message is displayed



Home

6. Installer Verification

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

Log Description	PATH
Summarized Installer Activity Log	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/obdx_installer.log
Summarized Database Logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db/DB_installation.log
Detailed OBDX DB Logs per SQL file	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db/OBDX/*
Detailed EHMS schema Logs per SQL file (specific to EHMS host system only)	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db/<EHMSHOST>/* <EHMSHOST> - values such as; FCORE; OBPM;; UBS
RCU Logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/app/obdx_stb_rcu_1600.log
Weblogic Configuration Logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/app/obdx_wls_post.log
Detailed OBDX policy seeding logs	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db/Entitlement.log <OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db/Task.log <OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db/Dashboard_seed.log Note: Check for SEVERE keyword; If found refer to Troubleshot section to re-run the policy
Policy seeding execution Log	<OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db/seedPolicies.log Note: Should be empty if no errors during policy execution. In-case non-empty refer to Troubleshot section to re-run the policy

Check all the logs for any errors.

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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	√	√

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
	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)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√

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

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

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

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

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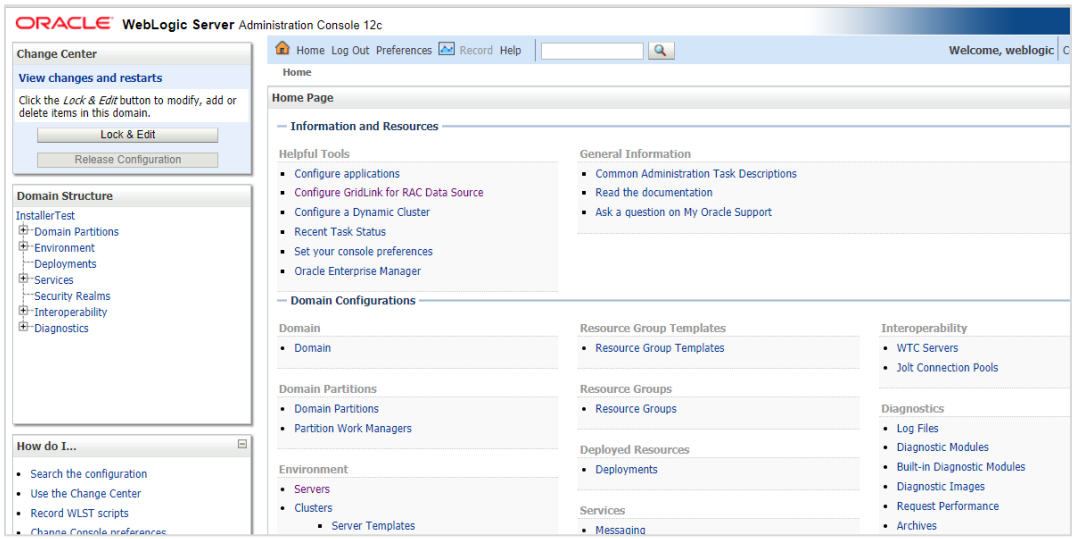
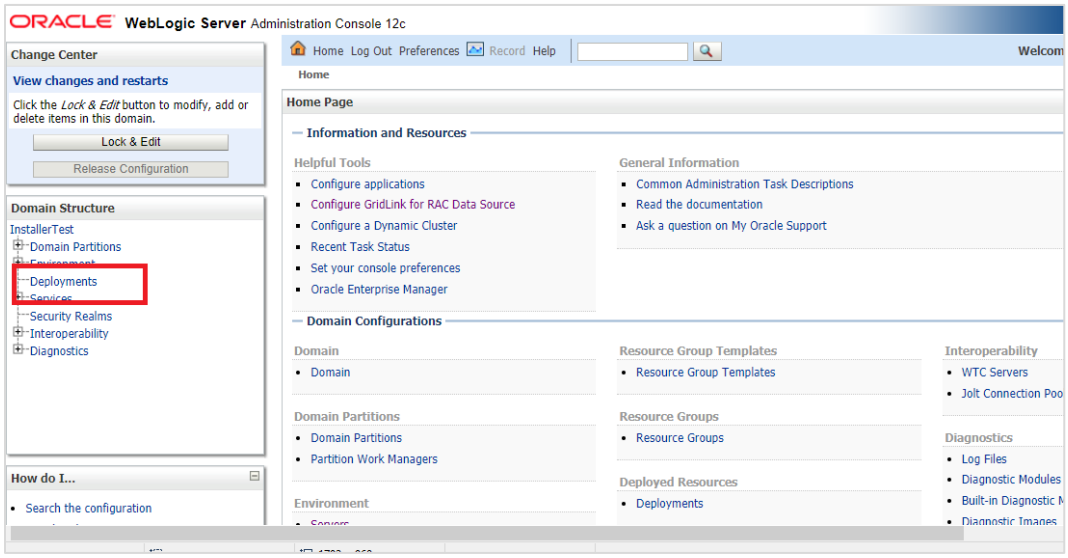
8. Post Installation Steps

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

Login Weblogic Admin console.



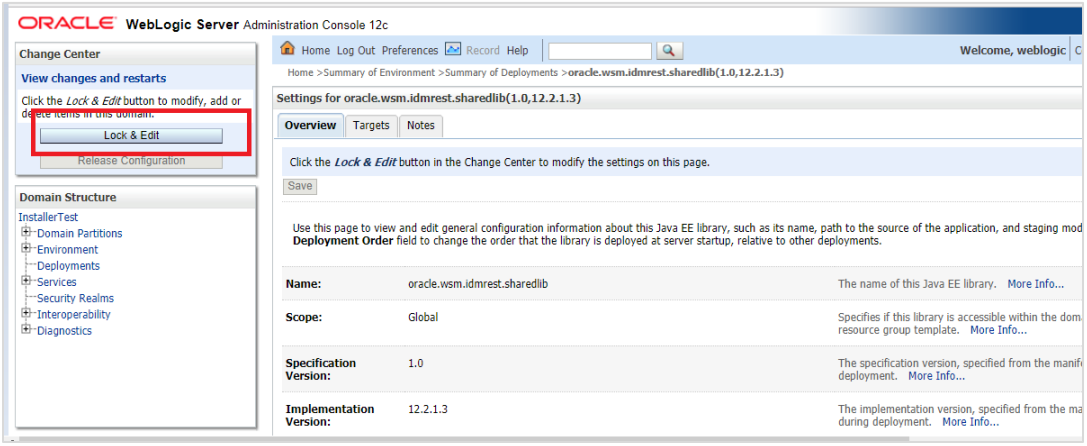
In the left panel of the Console, Click on **Deployments**, A table in the right pane displays all deployed Enterprise Applications and Application Modules.



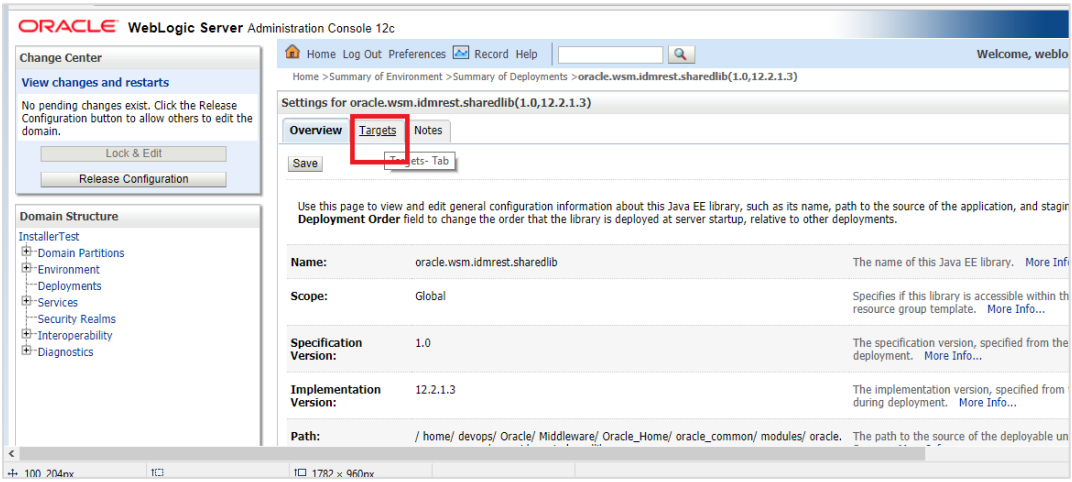
In the table, locate the **oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)** library to re-target and click on its name.

oracle.bi.jbips(11.1.1,0.1)	Active		Library	AdminServer	Global		100
oracle.dconfig-infra(2.0,12.2.1)	Active		Library	AdminServer	Global		100
oracle.jrf.system.filter	Active		Library	AdminServer	Global		100
oracle.jsp.next(12.2.1,12.2.1)	Active		Library	AdminServer	Global		100
oracle.pwdgen(2.0,12.2.1)	Active		Library	AdminServer	Global		100
oracle.sdp.client(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
oracle.sdp.messaging(2.0,12.2.1.3.0)	Active		Library	AdminServer	Global		100
oracle.webcenter.composer(2.0,12.2.1)	Active		Library	AdminServer	Global		300
oracle.webcenter.skin(2.0,12.2.1)	Active		Library	AdminServer	Global		300
oracle.wsm.console.core.view(1.0,12.2.1.3)	Active		Library	AdminServer	Global		311
oracle.wsm.idmrest.sharedlib(1.0,12.2.1.3)	Active		Library	AdminServer	Global		100
oracle.wsm.seedpolicies(2.0,12.2.1.3)	Active		Library	AdminServer	Global		100
orai18n-adf(11,11.1.1.1.0)	Active		Library	AdminServer	Global		100
owasp.esapi(2.0,12.2.1)	Active		Library	AdminServer	Global		100
state-management-provider-memory-rar	Active	OK	Resource Adapter	AdminServer	Global		100
UIX(11,12.2.1.3.0)	Active		Library	AdminServer	Global		100
wsm-pm	New		Enterprise Application	obdx_cluster	Global		5

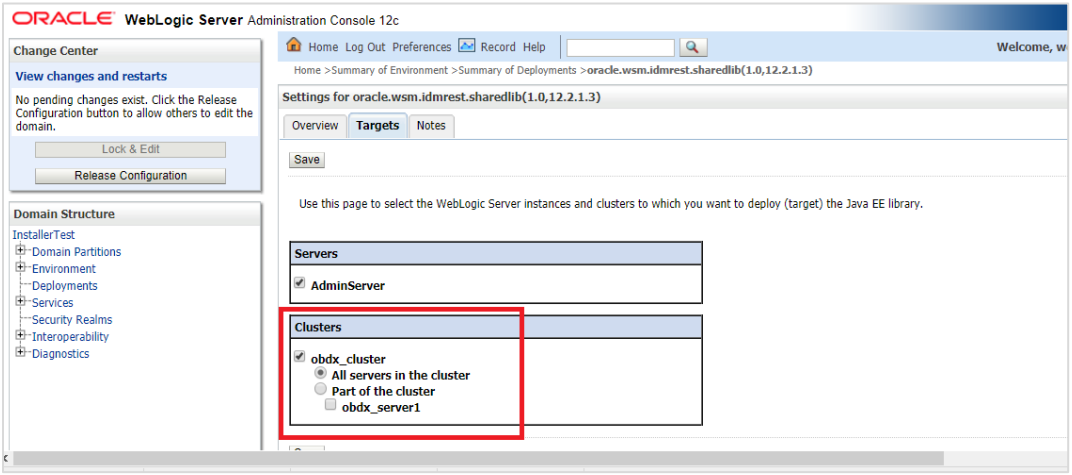
Click on **Lock & Edit**



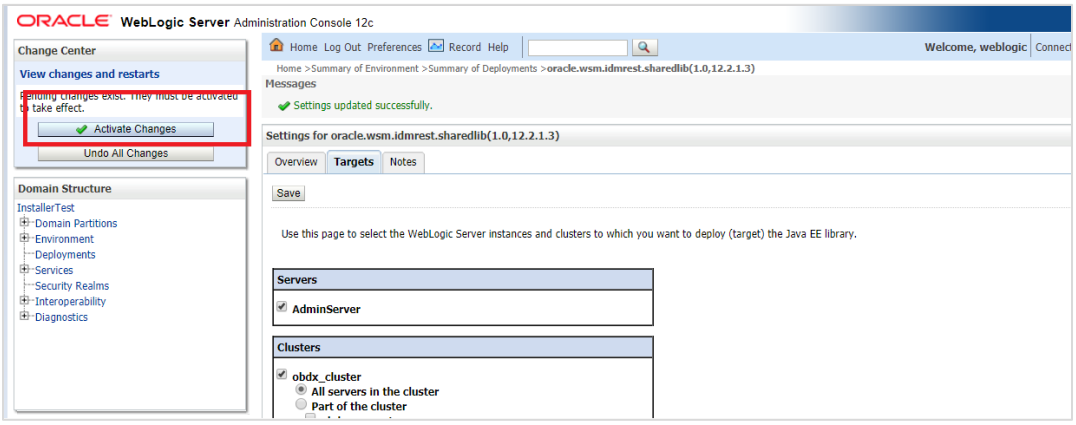
Click on **Targets** Tab



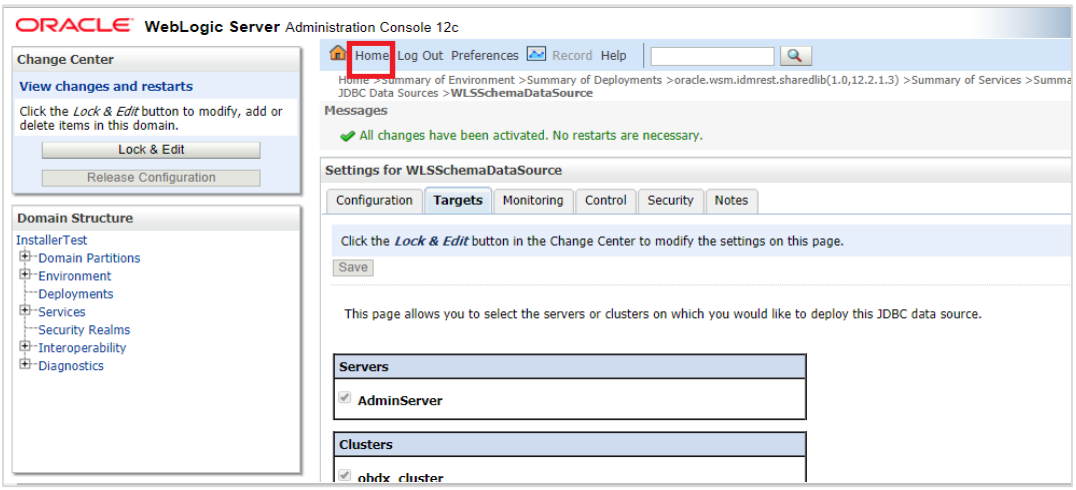
In the Servers box, select **Cluster** if it is not already selected and click **Save**.



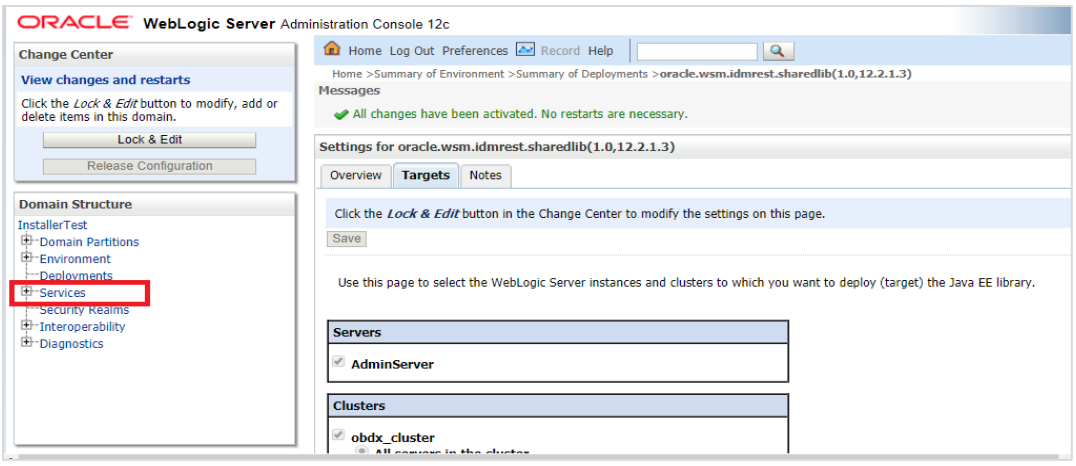
Click on **Activate Changes.**



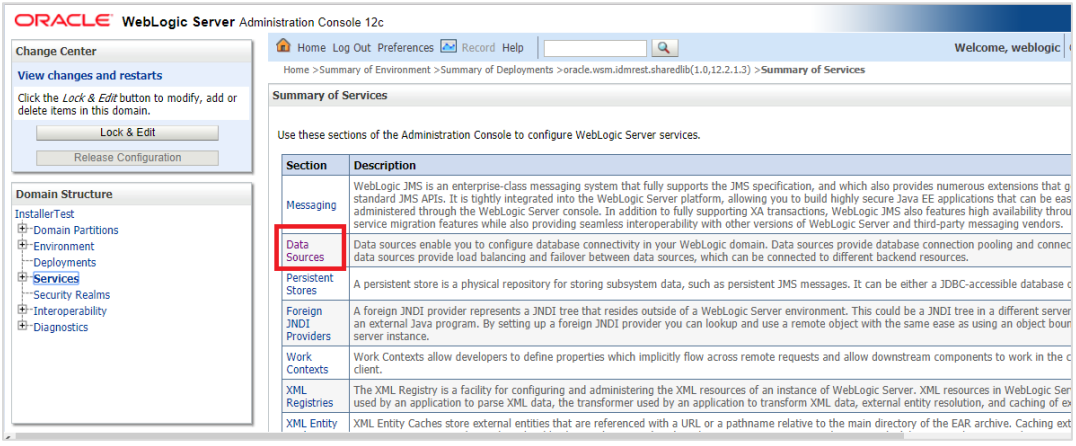
Click on **Home Tab**



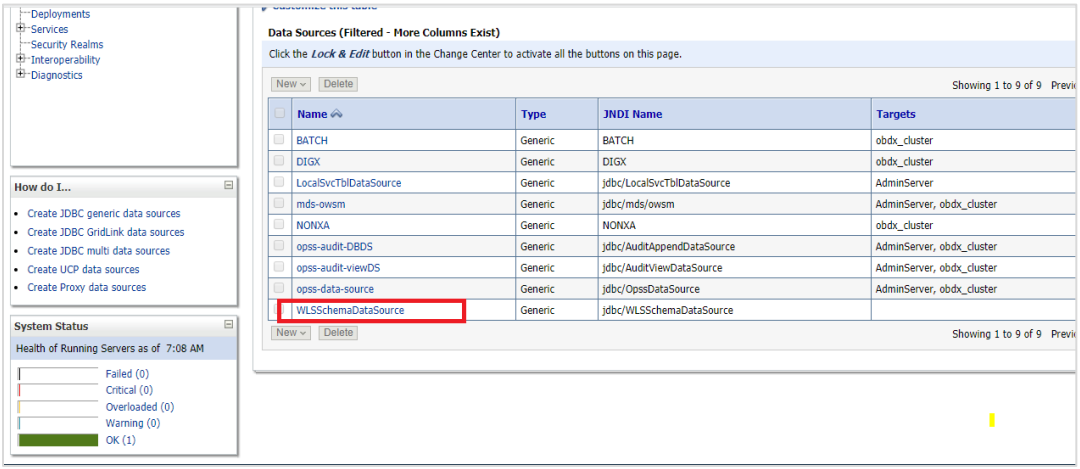
In the left panel of the Console, Click on **Services**,



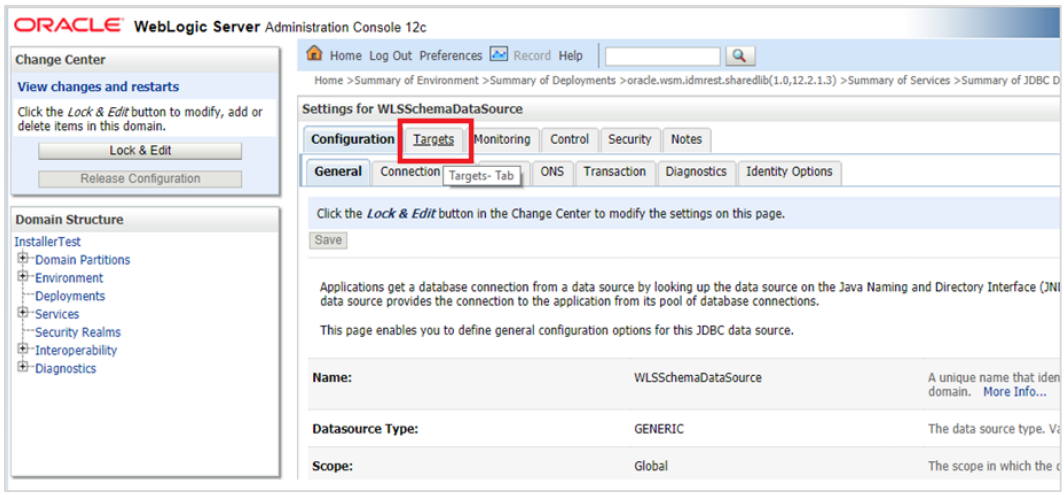
Click on **Data Sources**



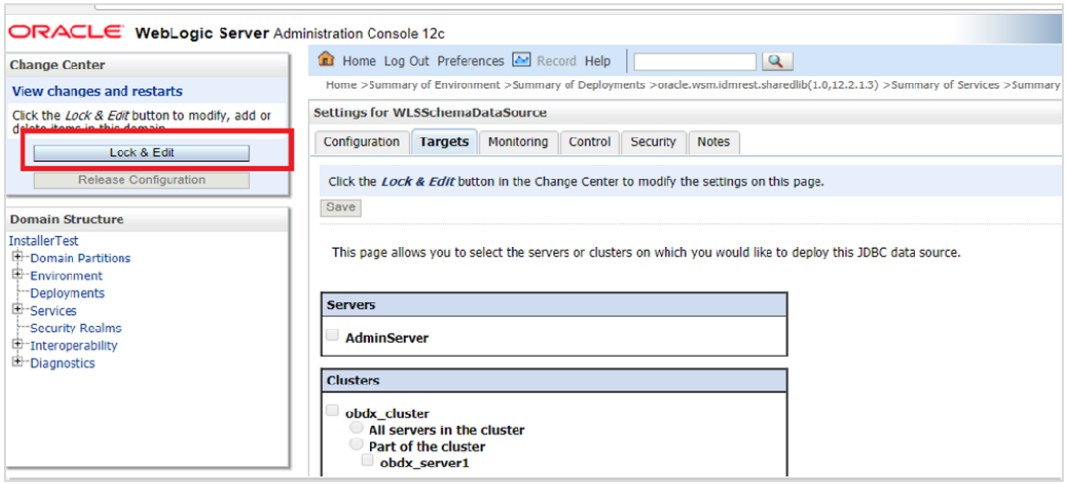
Locate **WLSSchemaDataSource** to change target ,click on its name



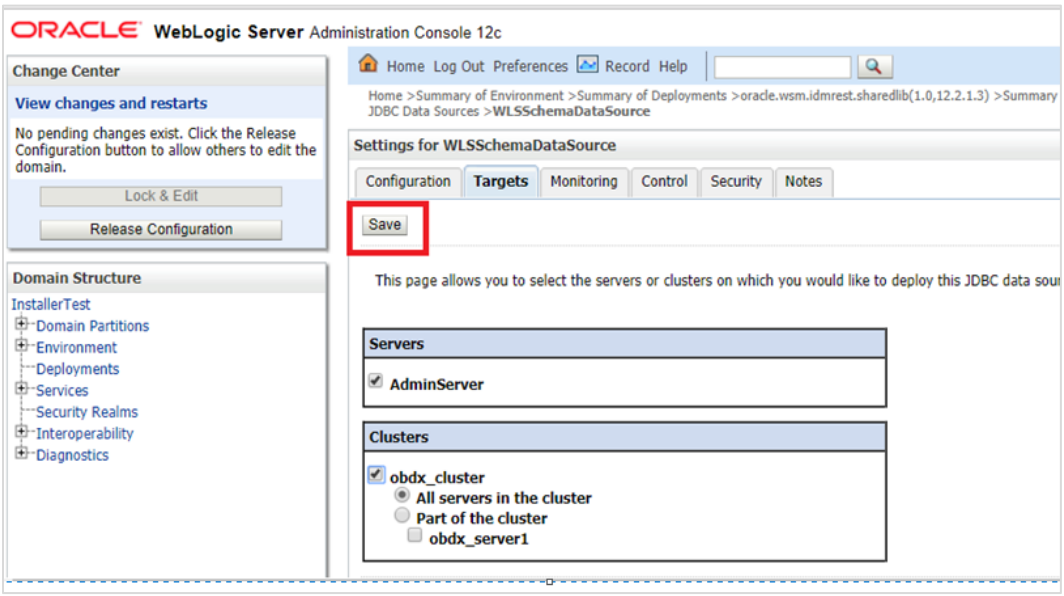
Click on **Targets** Tab



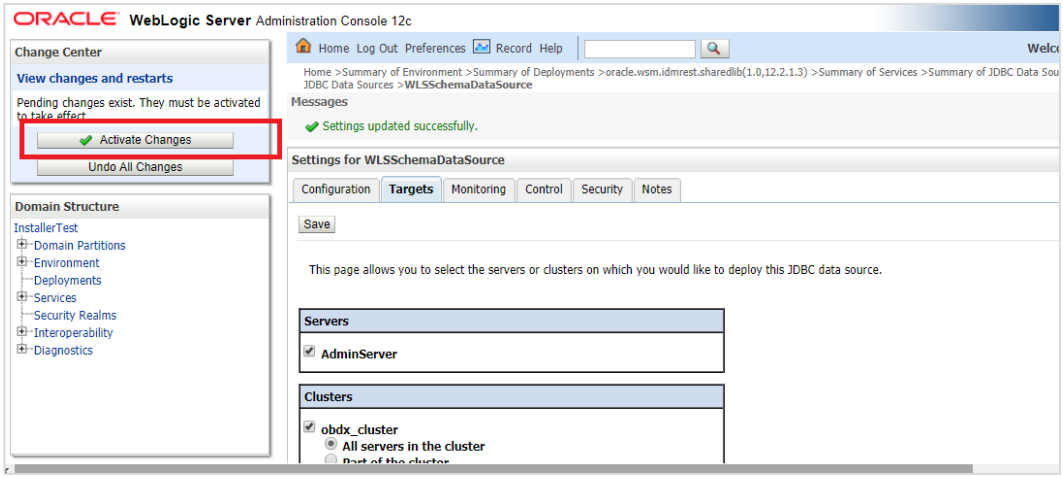
Click on **Lock & Edit**



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

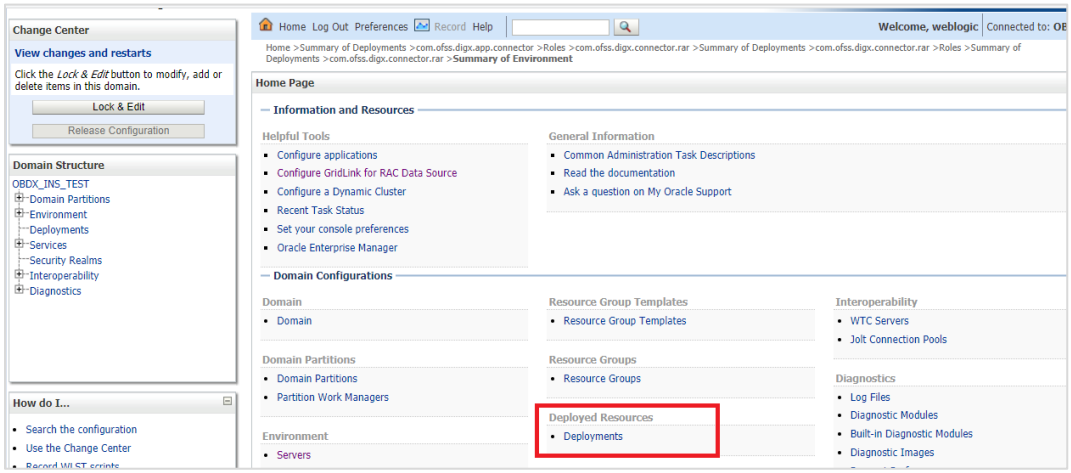


Click on **Activate Changes**



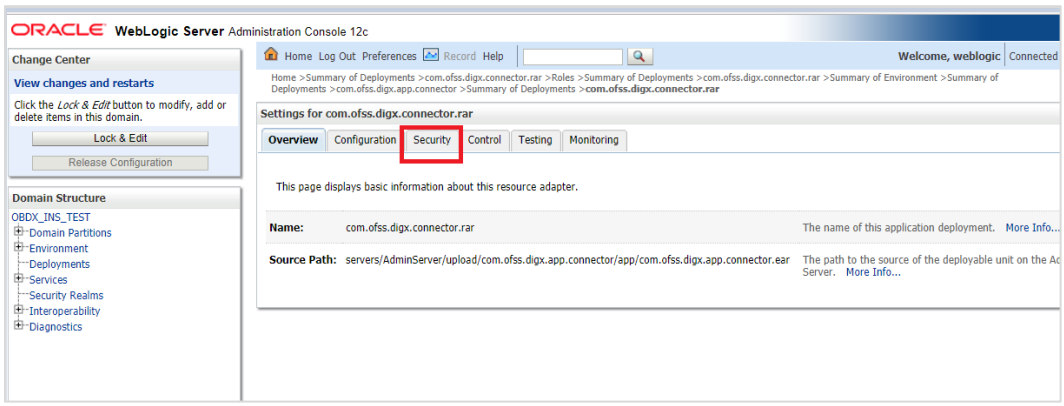
Outbound credential mappings

Login Weblogic Admin Console. Click on Deployments.

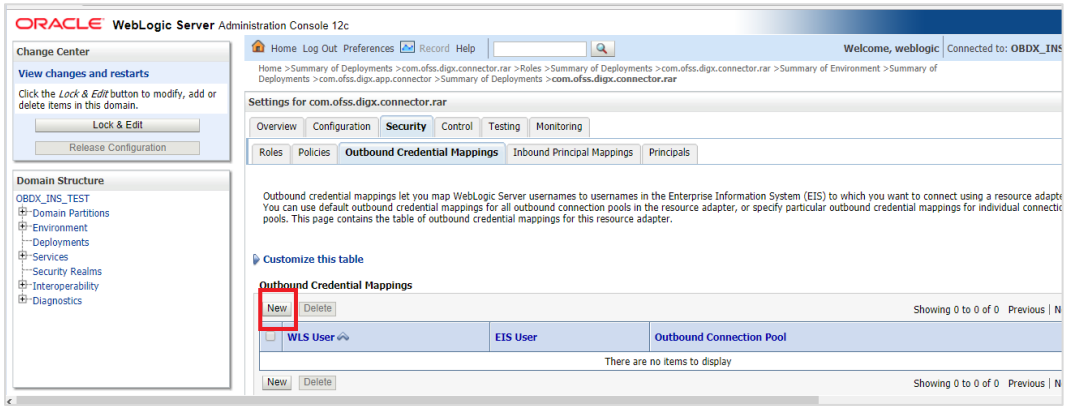


Click on com.ofss.digx.app.connector > com.ofss.digx.connector.rar

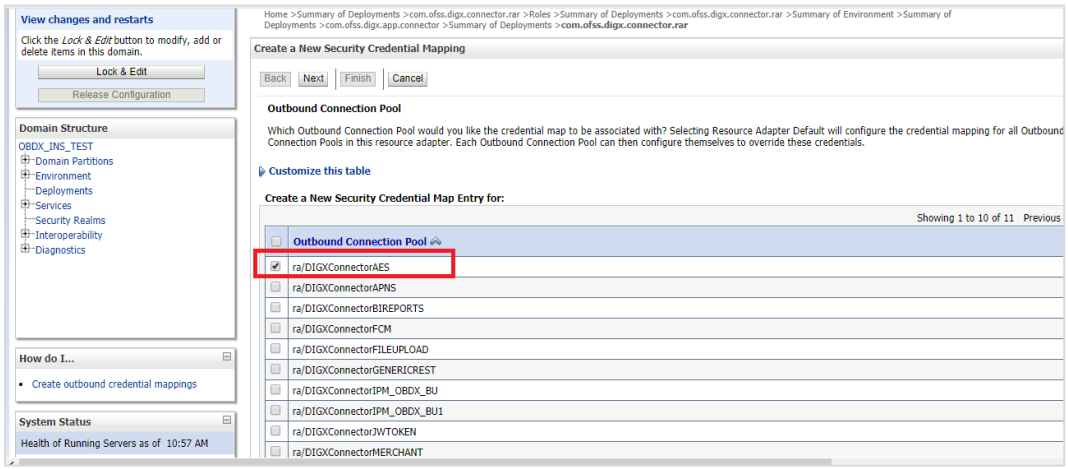
Click on **Security** Tab > **Outbound Credential Mappings**



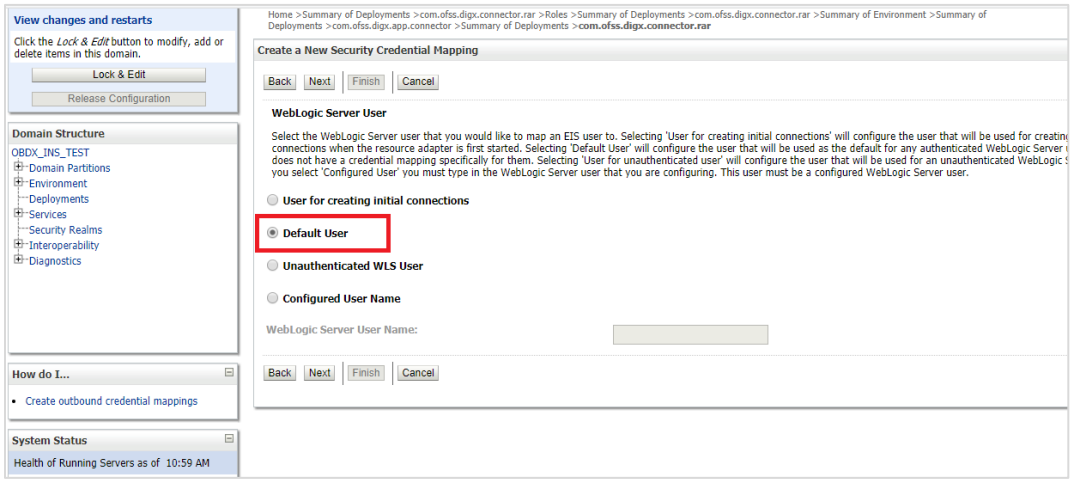
Click on **New**



Select **ra/DIGXConnectorAES > Next**

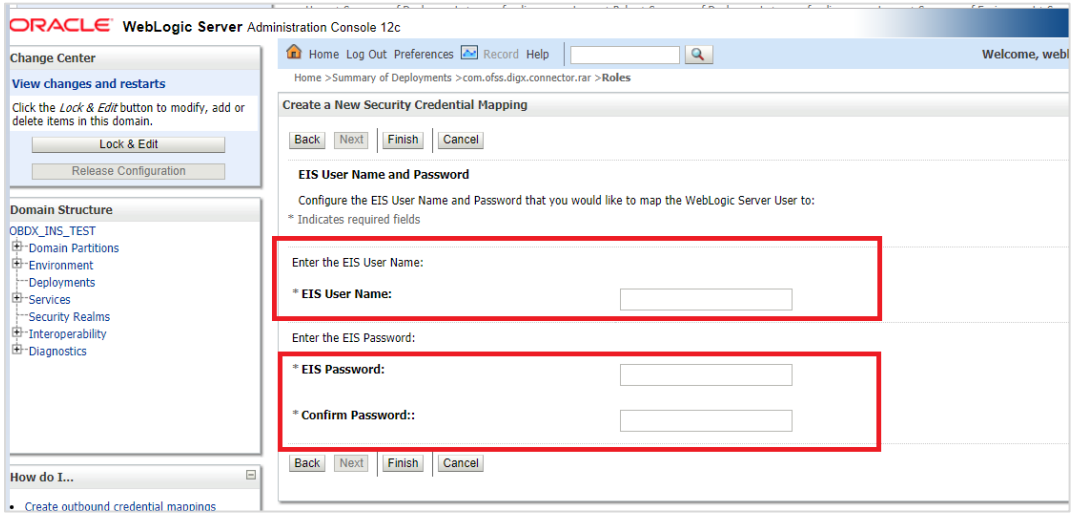


Select "**Default User**" > **Next**

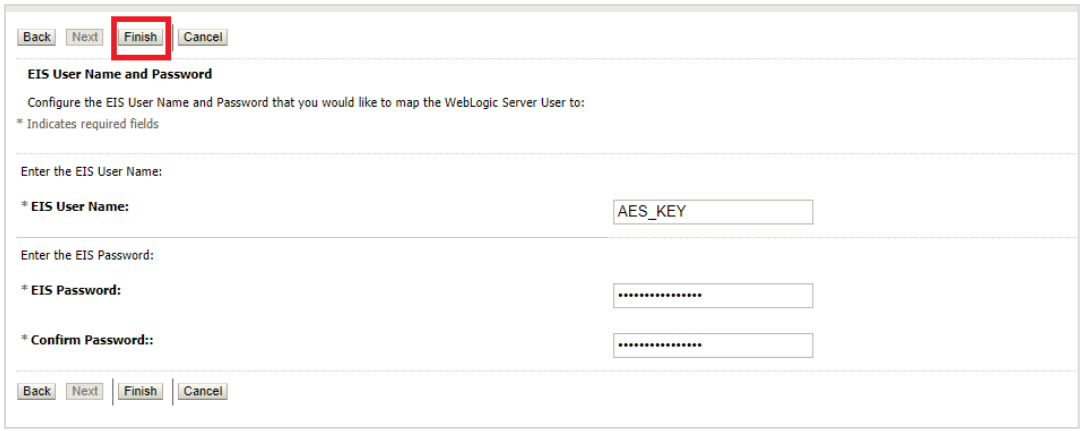


Enter "EIS User Name" should be set to AES_KEY

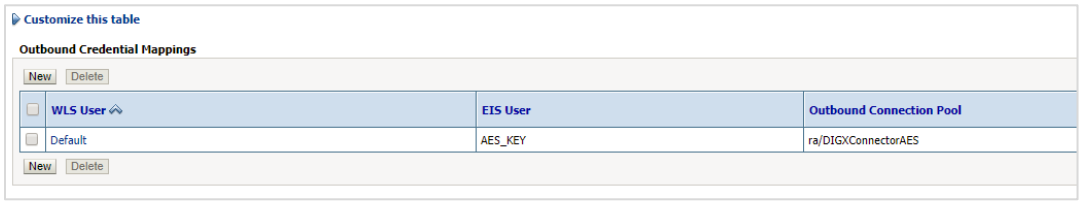
Enter "EIS Password" . Password should be any 16 characters.



Click '**Finish**'



Check AES_KEY mapping is created successfully.



Apply JRF Template

To apply JRF template follow below steps.

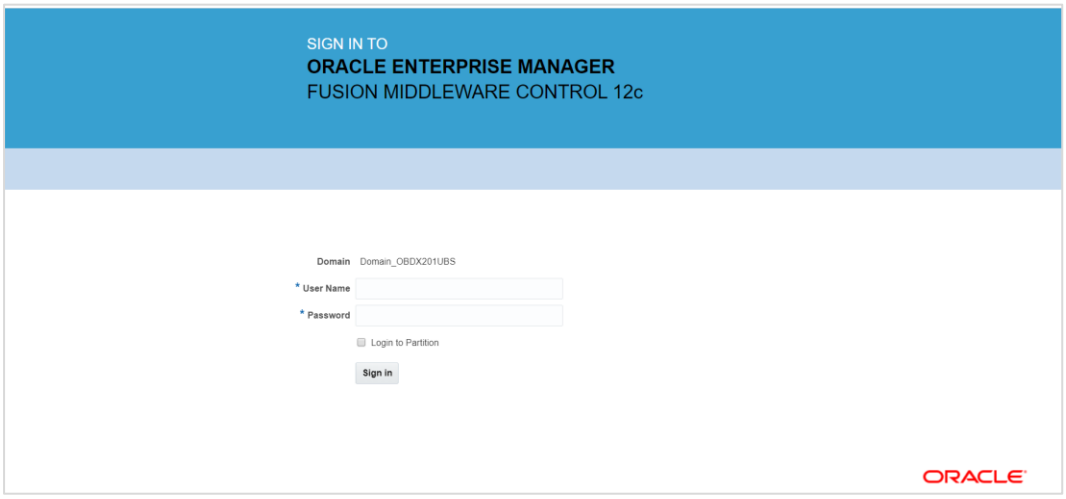
- To do this, ensure that the Admin Server is running. Login to the EM (Enterprise Manager) Console using the following URL:

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

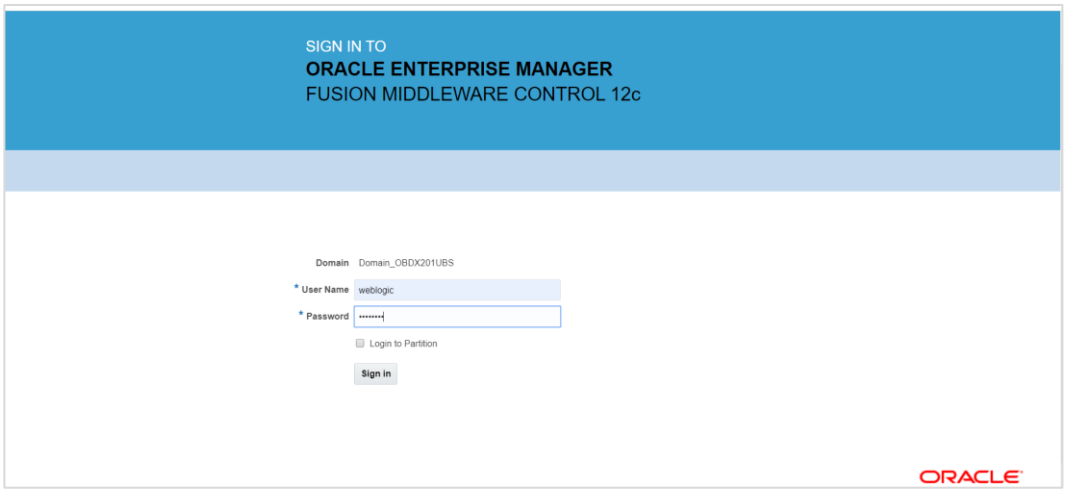
Note:
1) EM console would be available on same hostname and port which was used for Weblogic Admin Console for OBDX domain (created via installer), just replace the "/console" with "/em".

2) If EM console URL is giving error then please refer below troubleshooting page

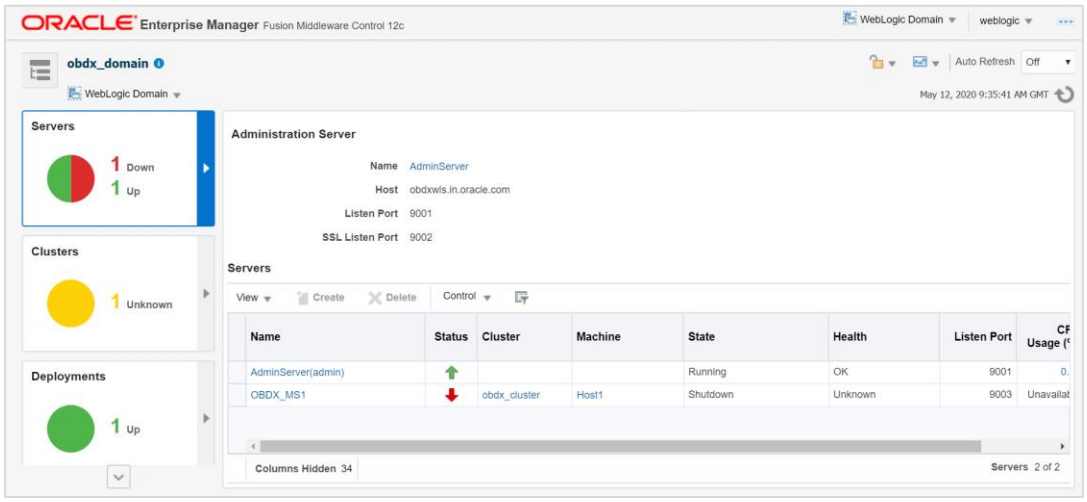
---



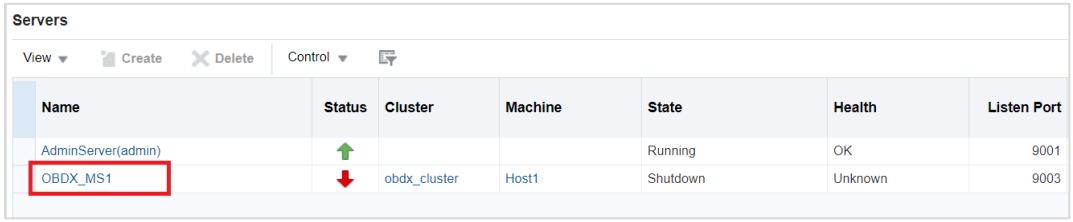
- Enter Weblogic administrator username and password (same used for Weblogic administrator console login)



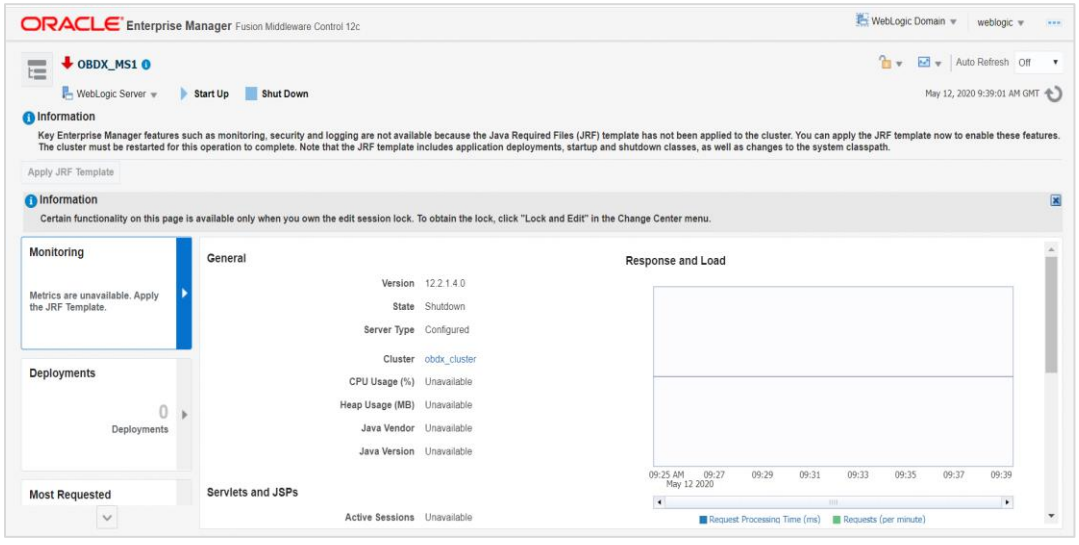
- Click on Sign In



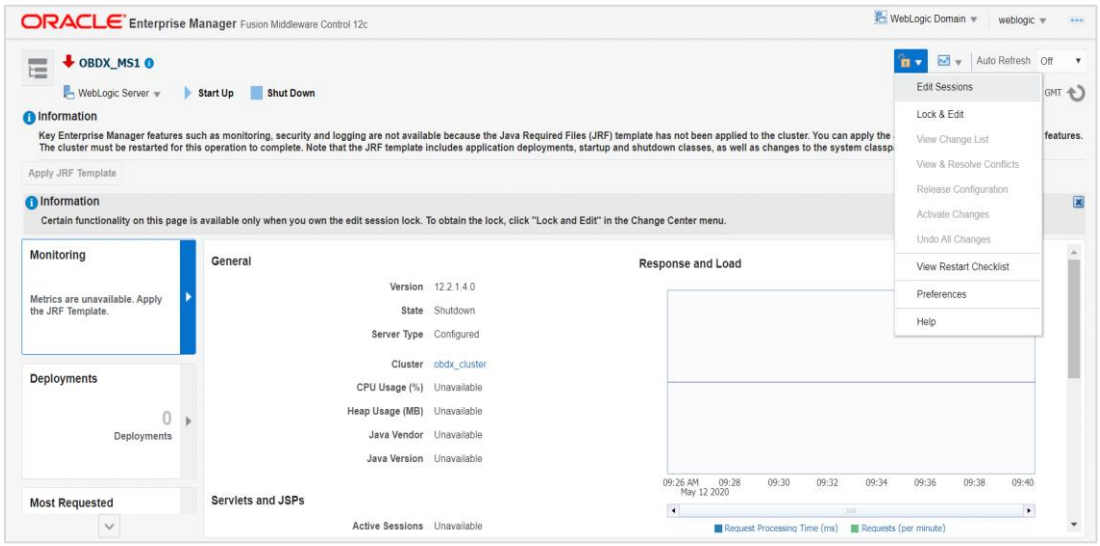
- Click on the Managed Server (as highlighted below)



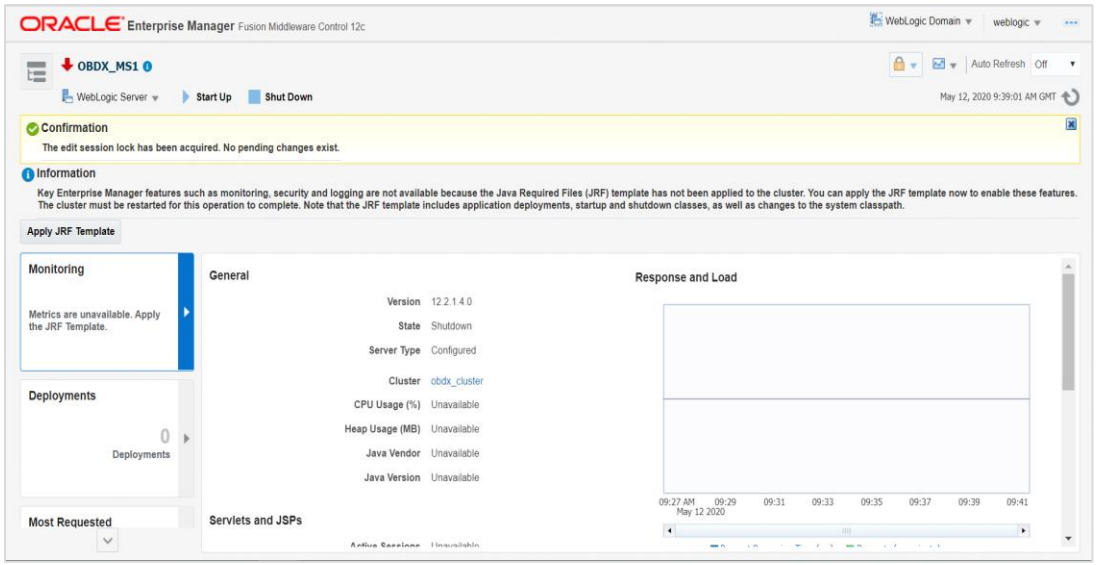
Note : Depending on installer.properties, Managed server will differ from above screenshot.



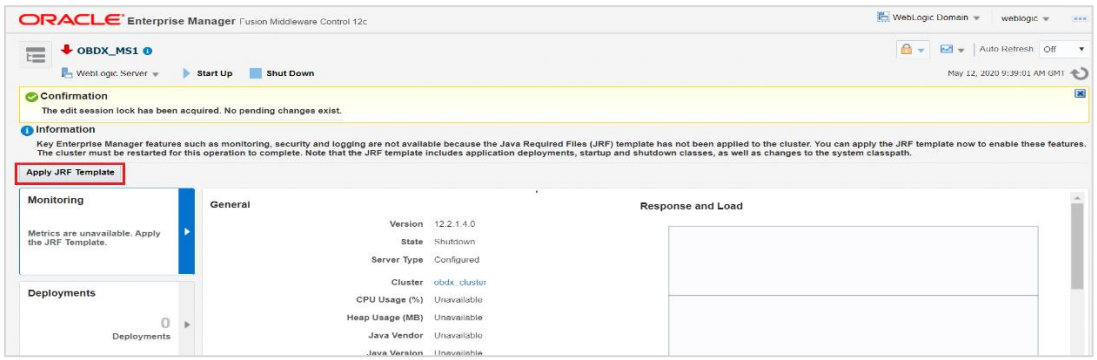
- Click on “Lock and Edit” option (as shown in screenshot).



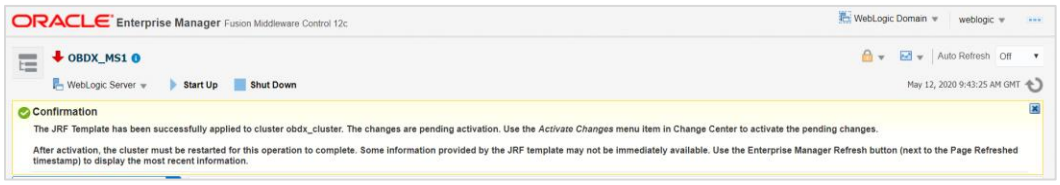
You will see below screen stating the edit session confirmation



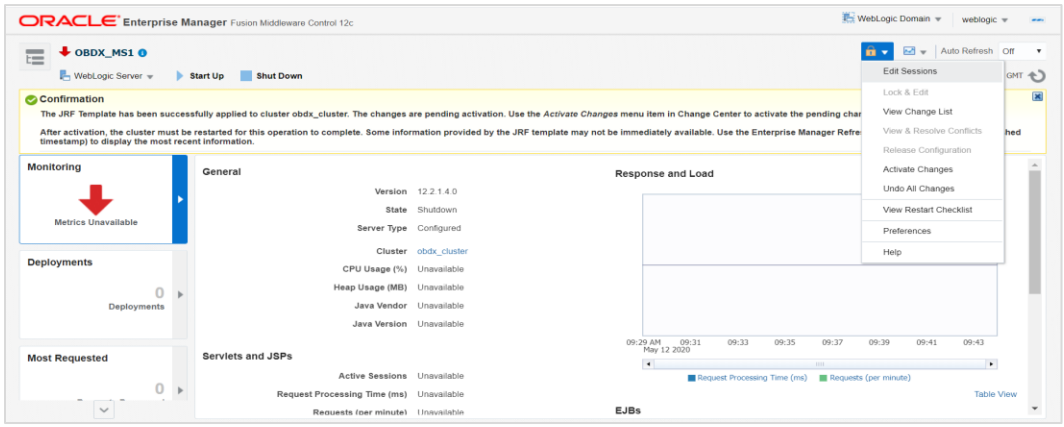
- Click on “Apply JRF Template” option (as shown in screenshot).



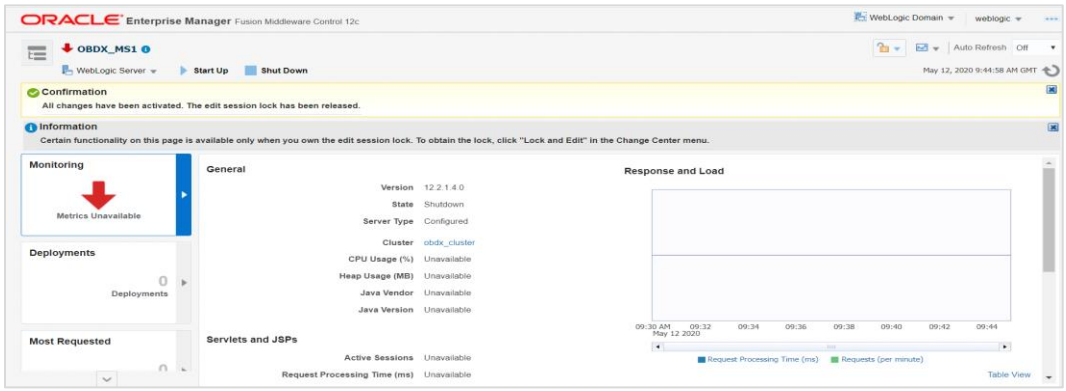
Is JRF successfully applied, you will get below Confirmation.



- 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 DBAuthenticator.In case of DBAuthenticator it has to be in sync with Password Policy Maintenance in OBDX.

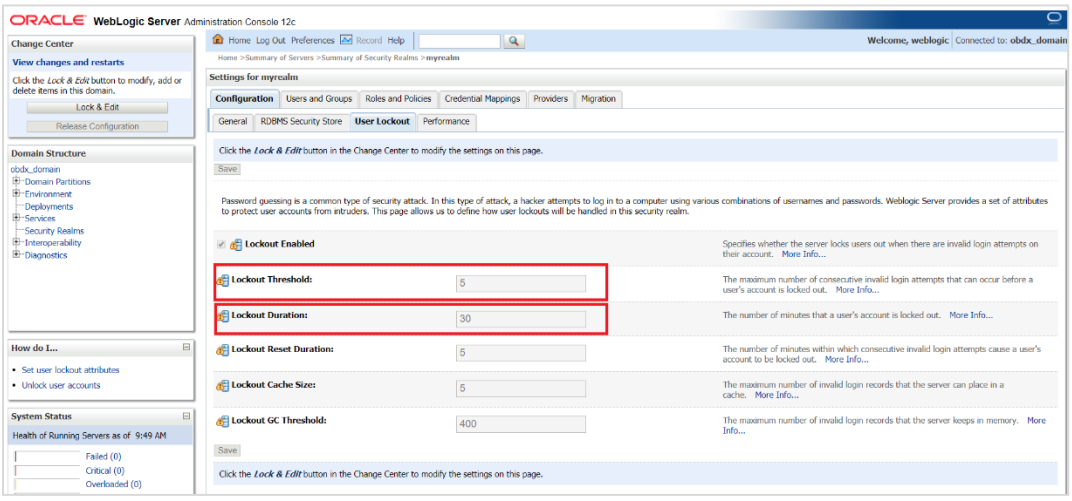
Check for below values & change accordingly.

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

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

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

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



Save and Activate Changes

Restart **AdminServer**

OBDX Application logging

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

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

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

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

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

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

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

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

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

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

</log_handler>

Below is a sample implementation for log_handlers file.

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

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

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

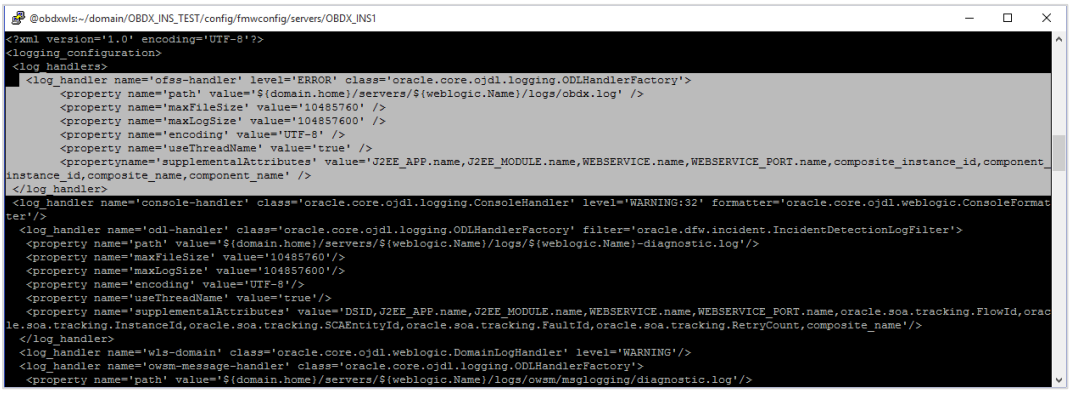
<property name='maxLogSize' value='104857600' />

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

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

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

</log_handler>



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'>

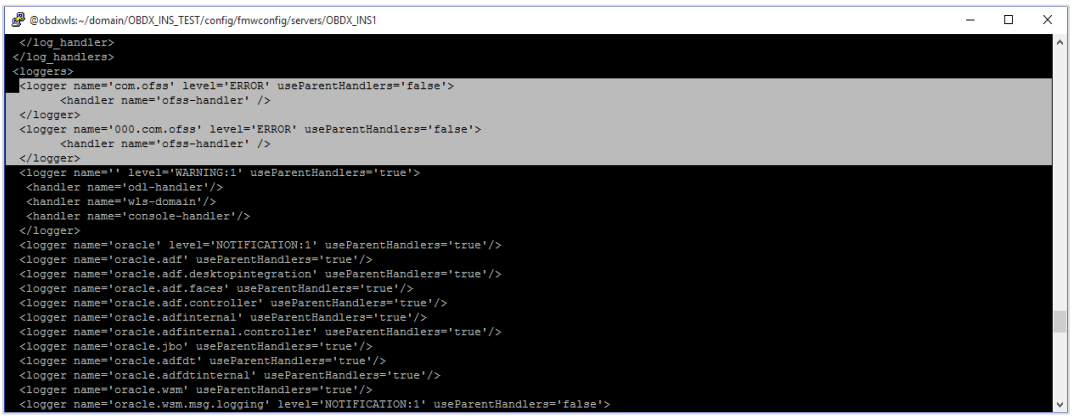
<handler name='obdx-handler' />

</logger>

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

<handler name='obdx-handler' />

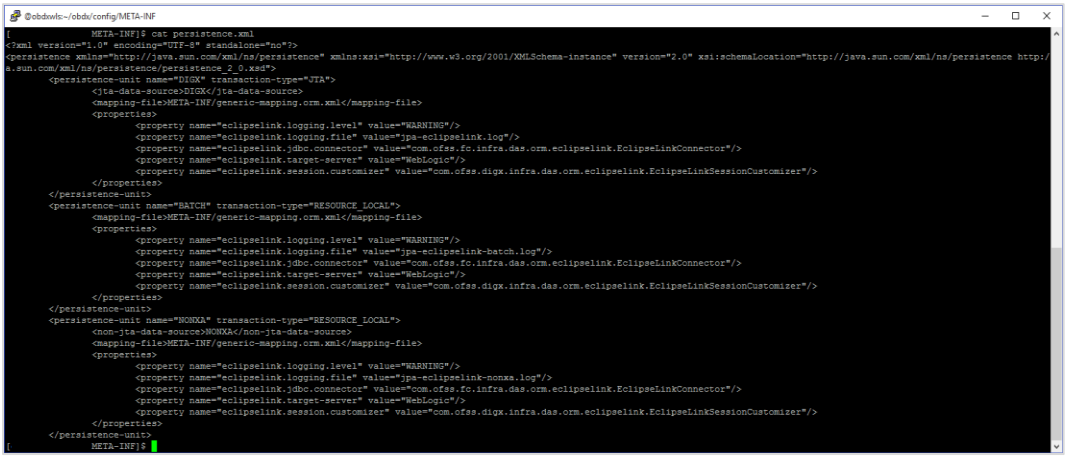
</logger>



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



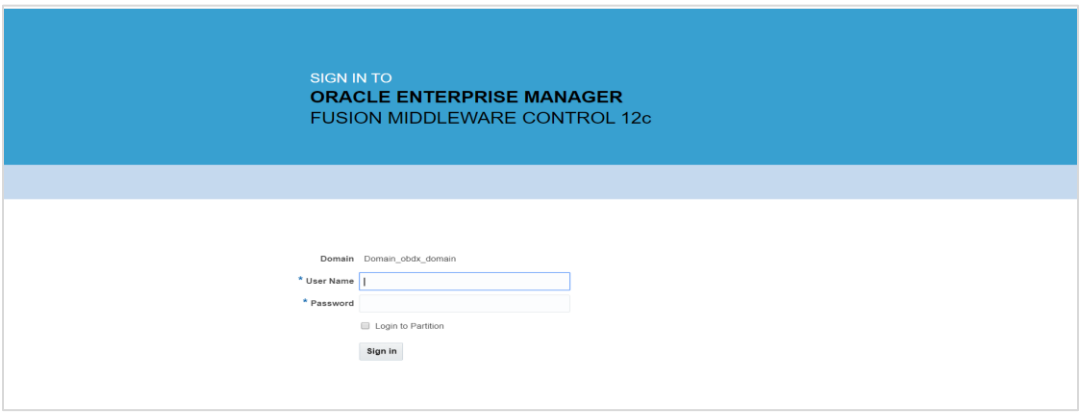
Change logging level during runtime

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:

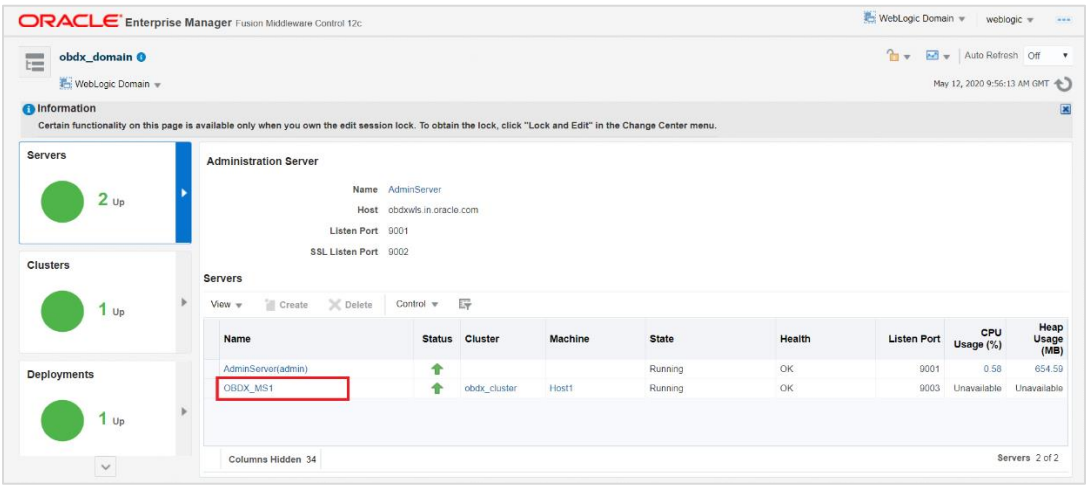
http://<hostname>:<admin_port>/em

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”.

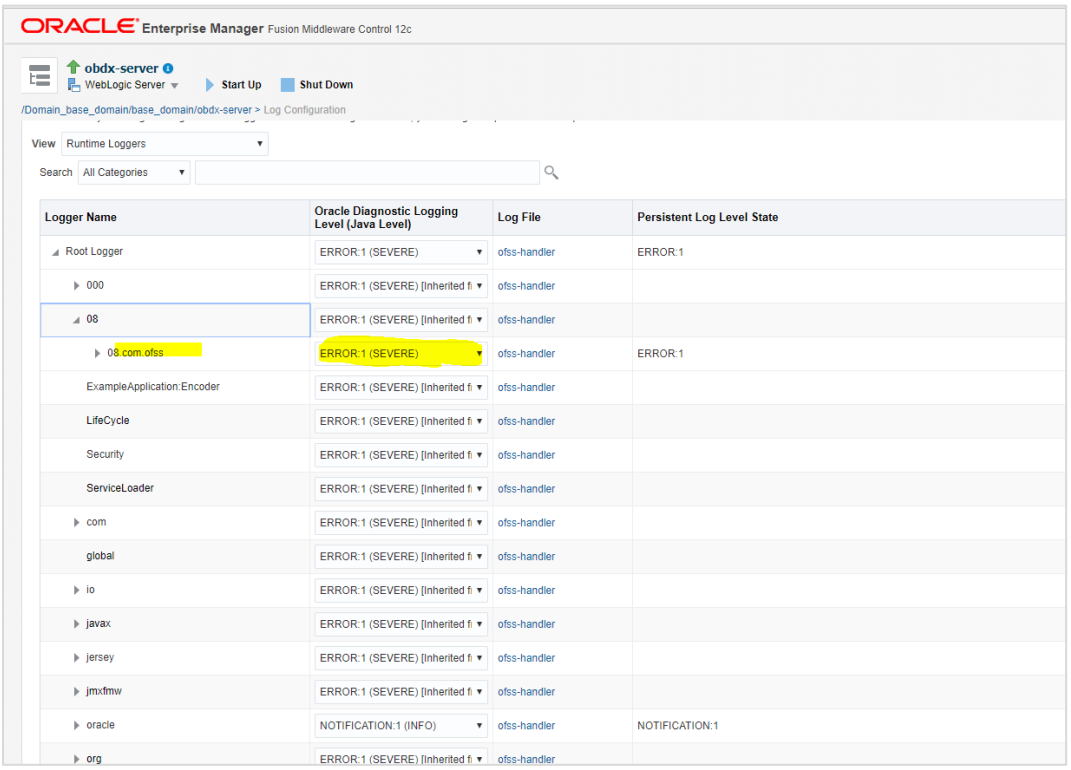


- Click on OBDX_MS1

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



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



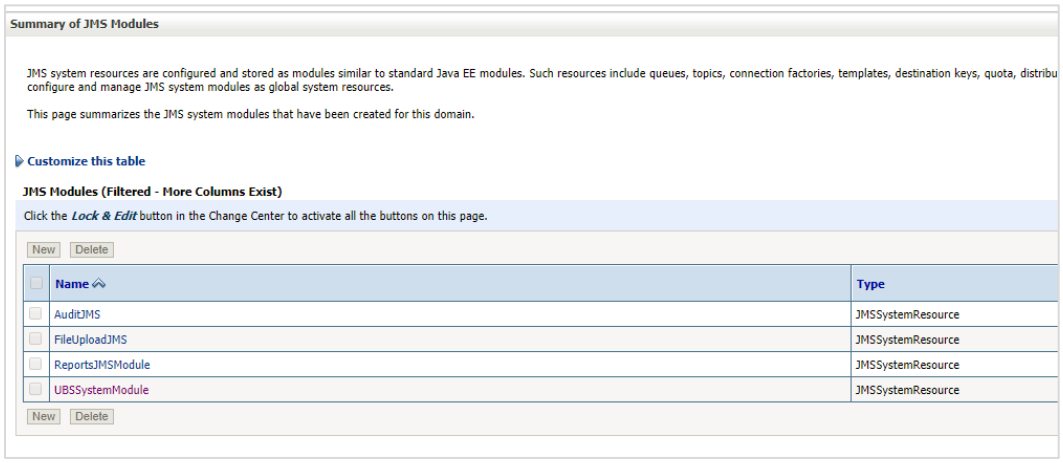
Note : Logger name should be defined in logging.xml.

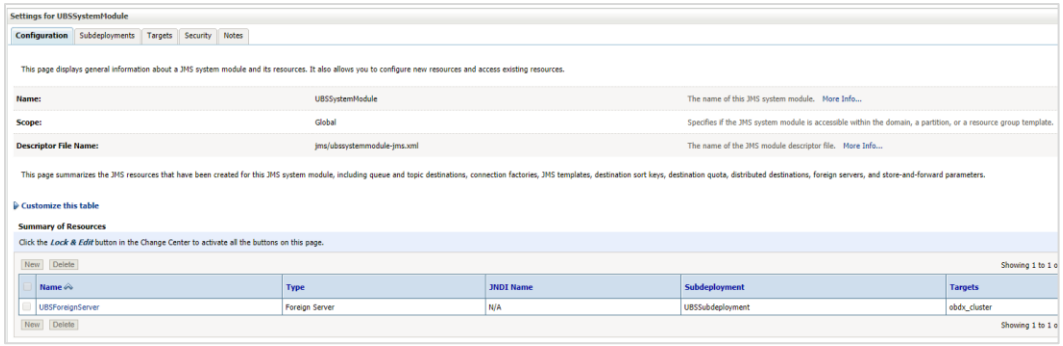
Oracle FLEXCUBE Universal Banking (OBDX_with_UBS)

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

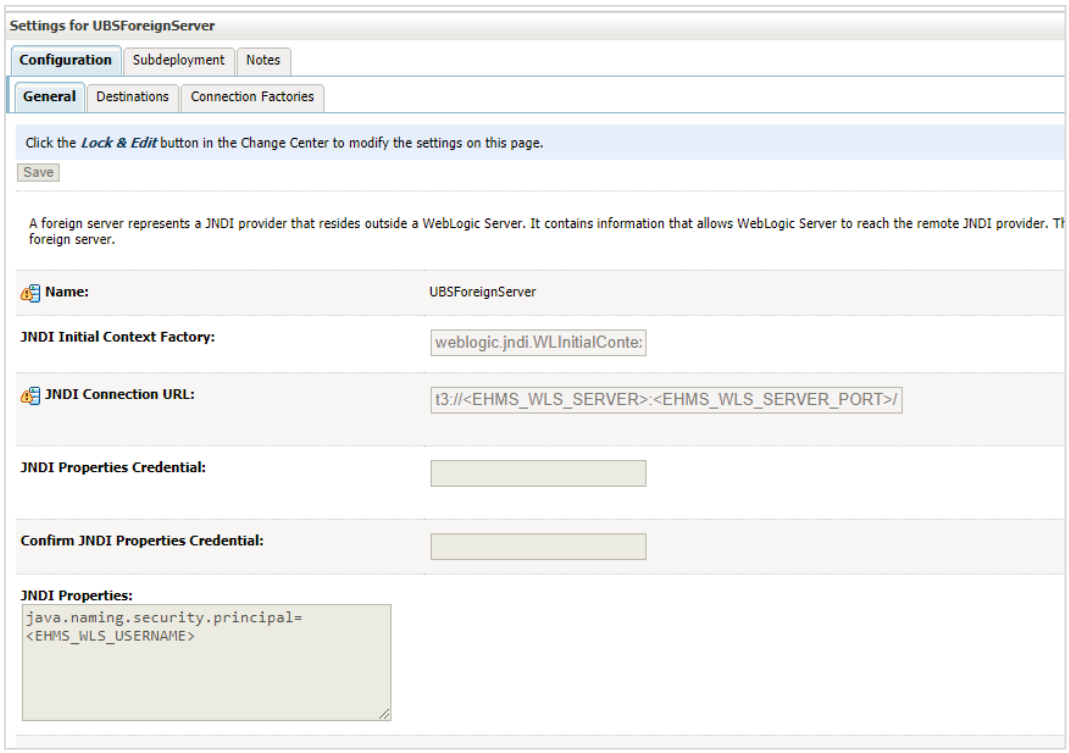
Foreign Server

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

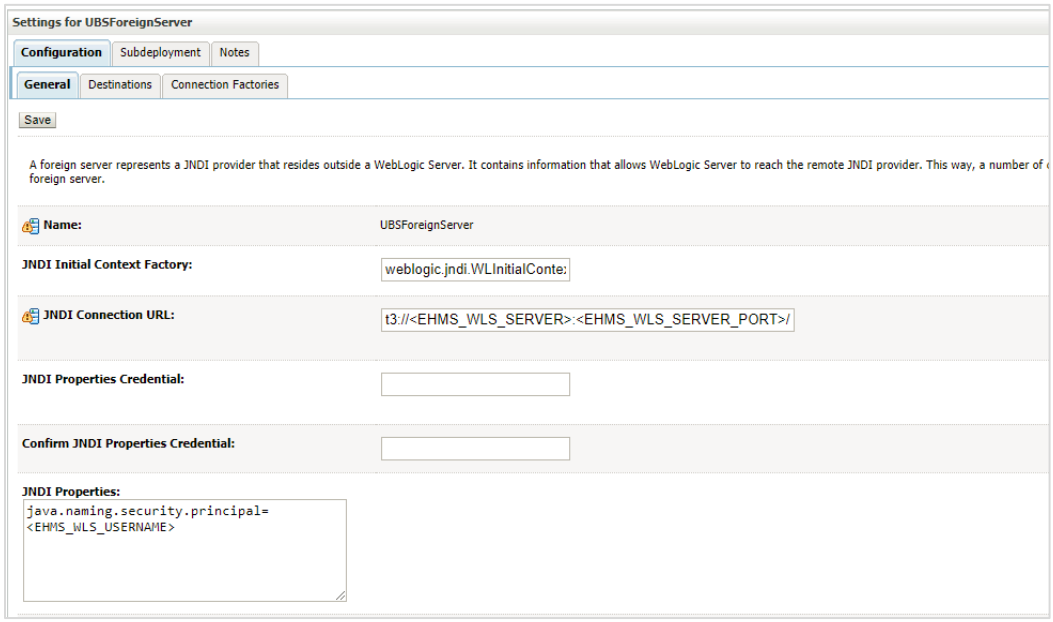




- Click on UBSForeignServer



- Click on Lock & Edit



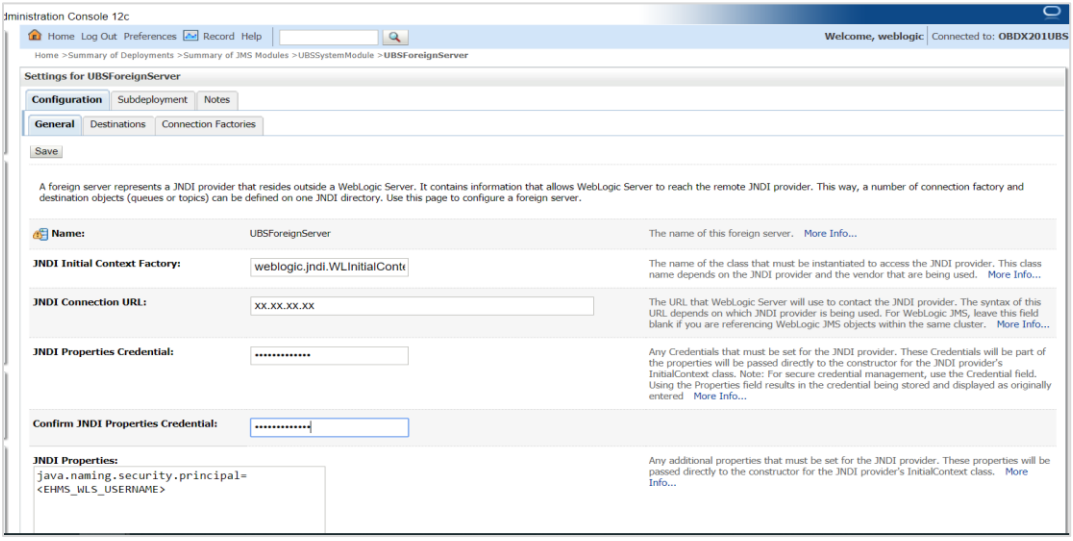
Set below configurations with:

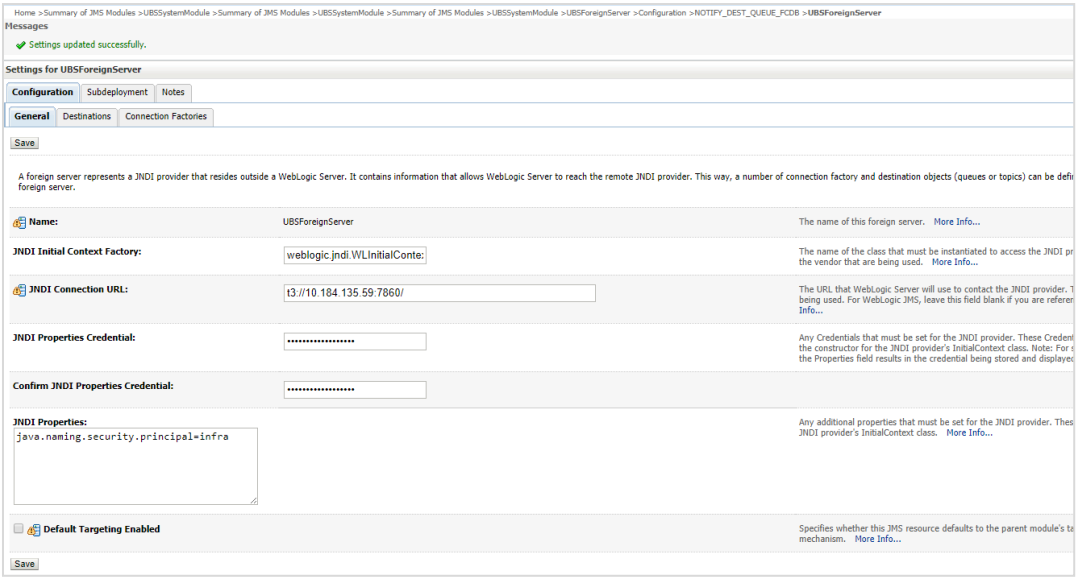
JNDI Connection URL –Replace <EHMS_WLS_SERVER> with hostname or IP address of UBS HOST Weblogic server and <EHMS_WLS_SERVER_PORT> with port number of UBS HOST Weblogic Managed server (where NOTIFY_DEST_QUEUE and NOTIFY_DEST_QUEUE_FCDB are mapped).
JNDI Properties Credential – Password for username set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

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

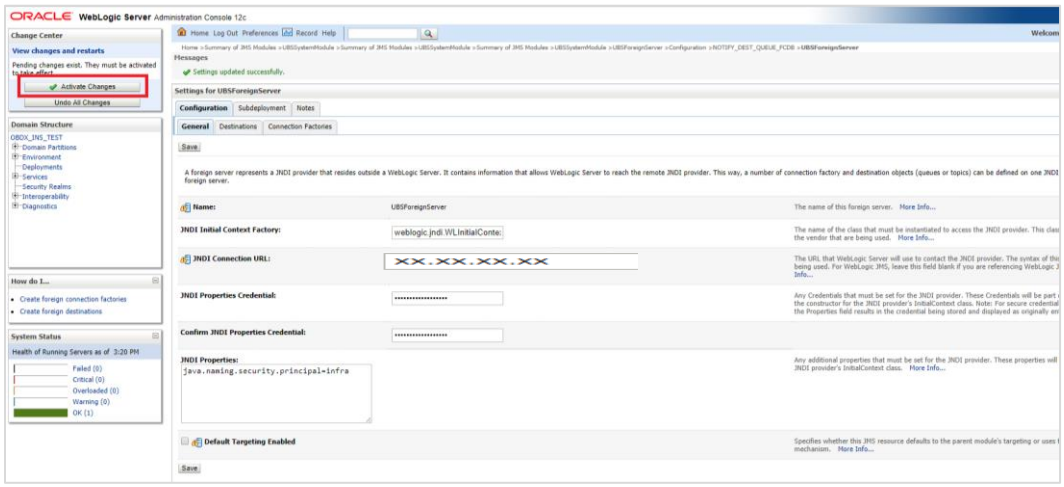
JNDI Properties – Value to be set as “java.naming.security.principal=<EHMS_WLS_USERNAME>”, where
username is the login user of UBS Weblogic Admin Console (user which created the primary local queues for UBS).

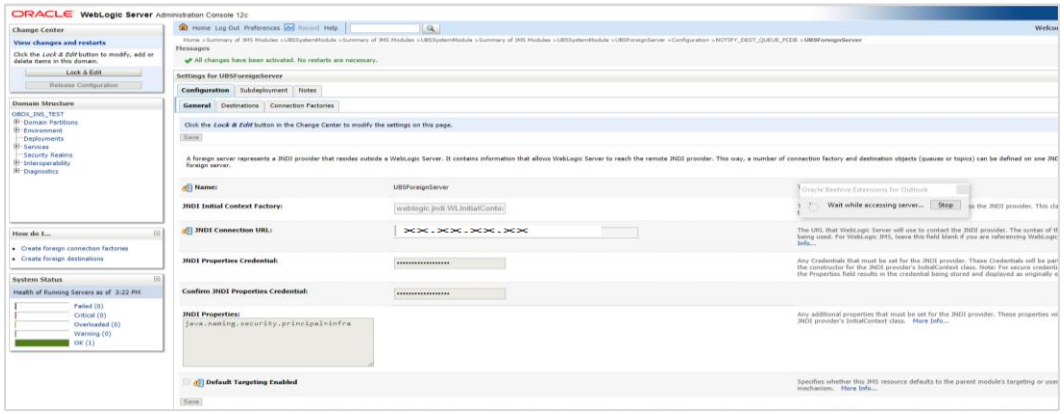
- Click on Save





- Click on Activate Changes

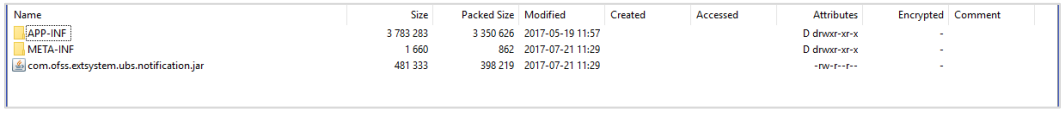




Deployment of notification MDB application

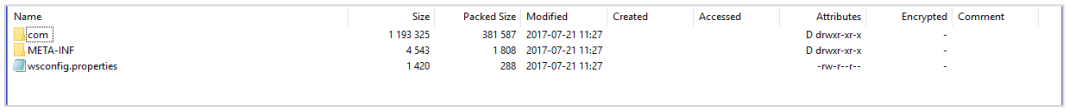
Before deployment of obdx.externalsystem.ubs.notification.mdb.ear application, kindly perform below steps:

- 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)



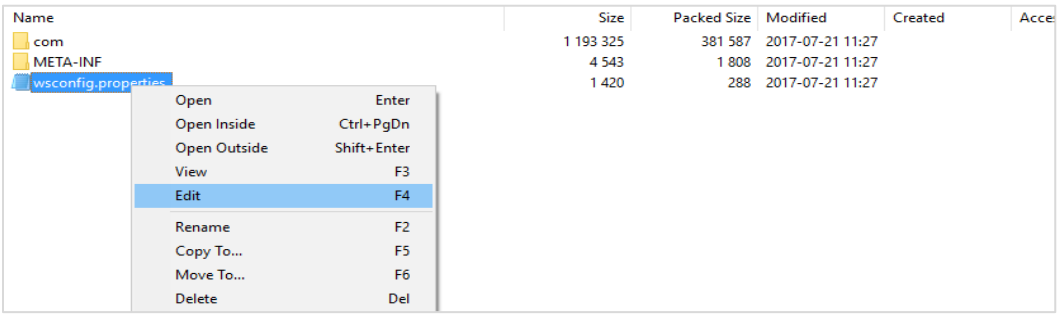
Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
APP-INF	3 783 283	3 350 626	2017-05-19 11:57			D drwxr-xr-x	-	
META-INF	1 660	862	2017-07-21 11:29			D drwxr-xr-x	-	
com.ofss.extsystem.ubs.notification.jar	481 333	398 219	2017-07-21 11:29			-rw-r--r--	-	

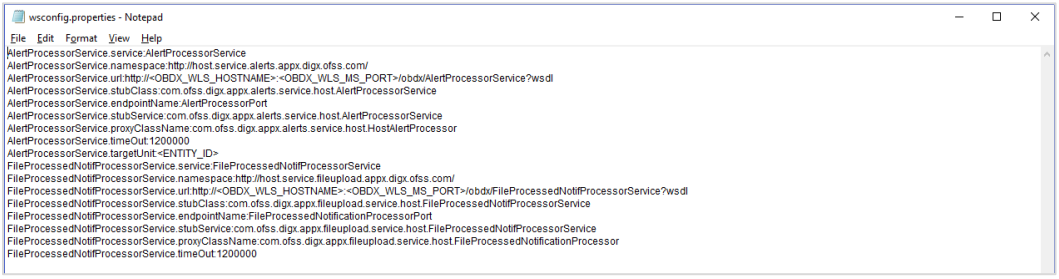
- Double click on com.ofss.extsystem.ubs.notification.jar



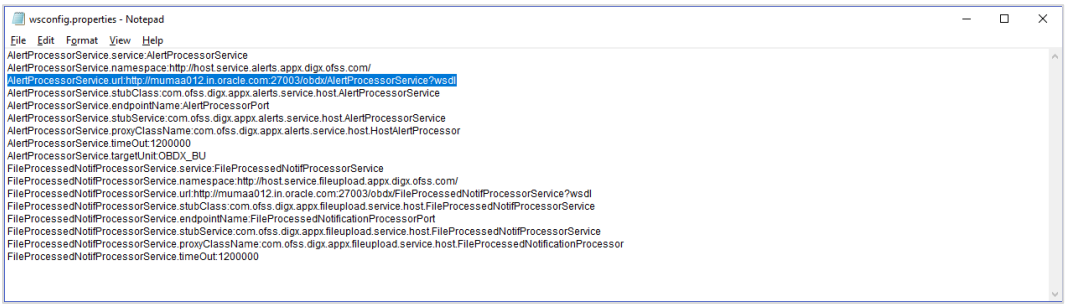
Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
com	1 193 325	381 587	2017-07-21 11:27			D drwxr-xr-x	-	
META-INF	4 543	1 808	2017-07-21 11:27			D drwxr-xr-x	-	
wsconfig.properties	1 420	288	2017-07-21 11:27			-rw-r--r--	-	

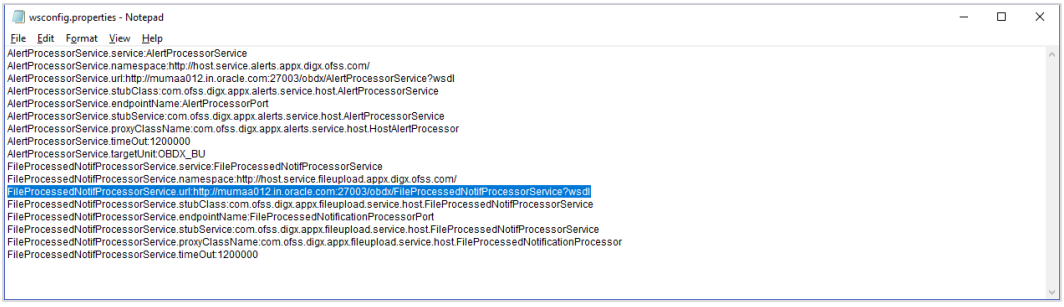
- Open the wsconfig.properties to edit



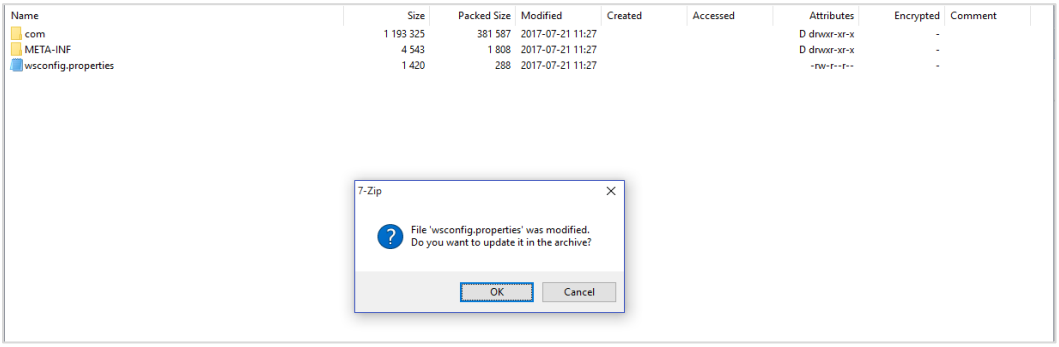


- Change the URL for AlertProcessorService.url,FileProcessedNotifProcessorService.url and AlertProcessorService.targetUnit(Note the hostname and port should be of OBDX managed server created by installer. Entity ID should be OBDX_BU for Base entity)

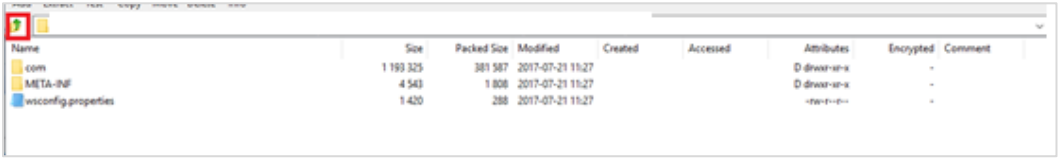




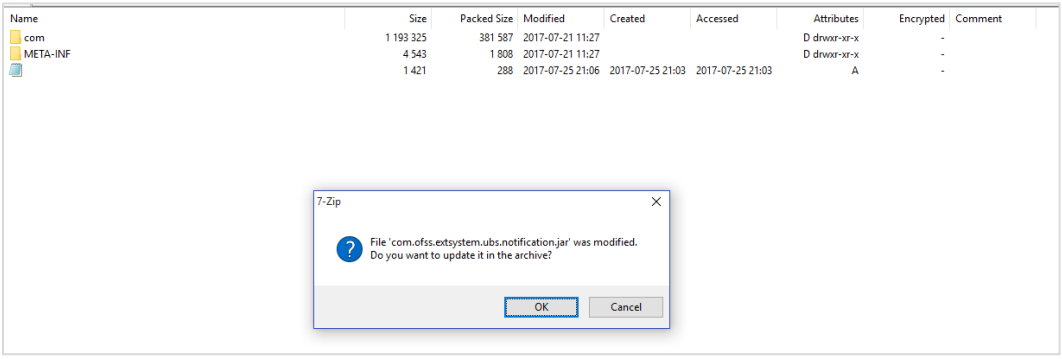
- Save changes.
- Click OK.



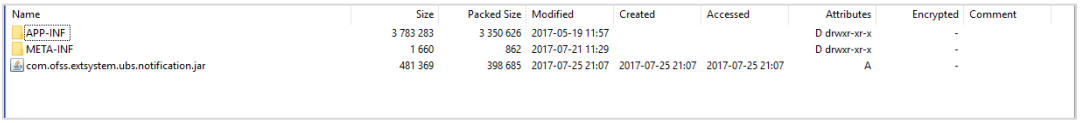
- Navigate back to obdx.externalsystem.ubs.notification.mdb.ear



- Click OK



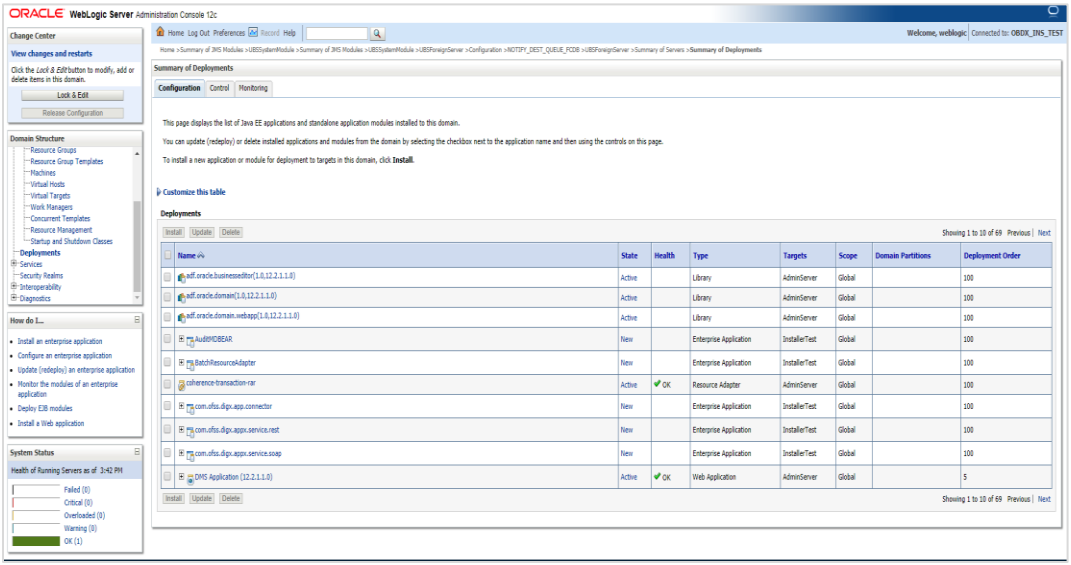
The date-timestamp would be updated (as seen below) once the change is saved.



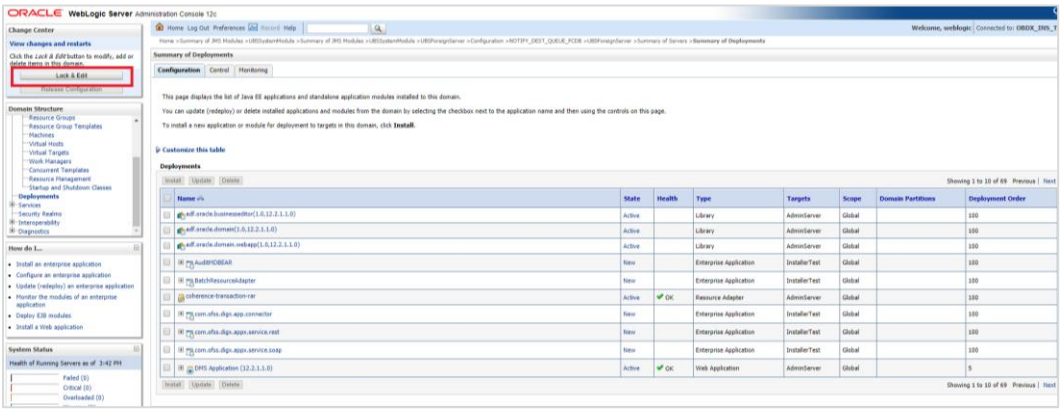
Name	Size	Packed Size	Modified	Created	Accessed	Attributes	Encrypted	Comment
APP-INF	3 783 283	3 350 626	2017-05-19 11:57			D drwxr-xr-x	-	
META-INF	1 660	862	2017-07-21 11:29			D drwxr-xr-x	-	
com.ofss.extsystem.ubs.notification.jar	481 369	398 685	2017-07-25 21:07	2017-07-25 21:07	2017-07-25 21:07	A	-	

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

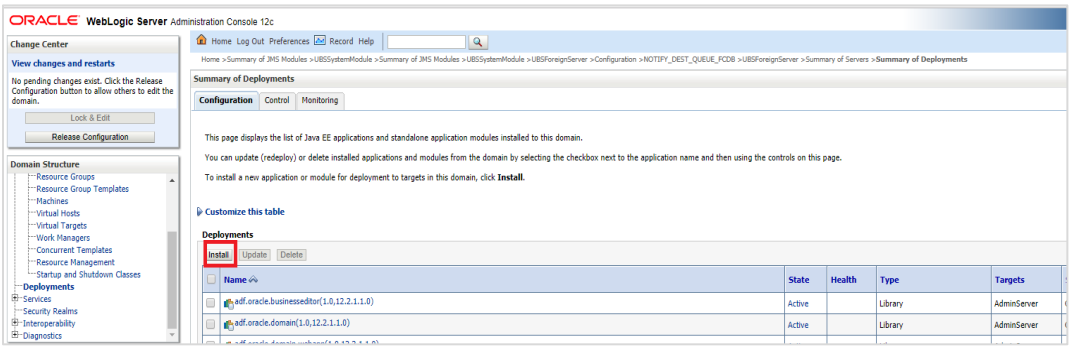
- Login into Weblogic Admin Console (OBDX domain created using installer) and navigate to Deployments



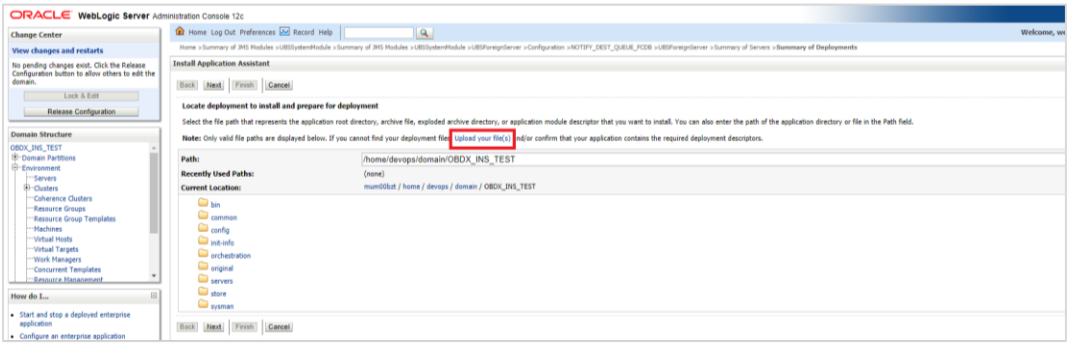
- Click Lock & Edit



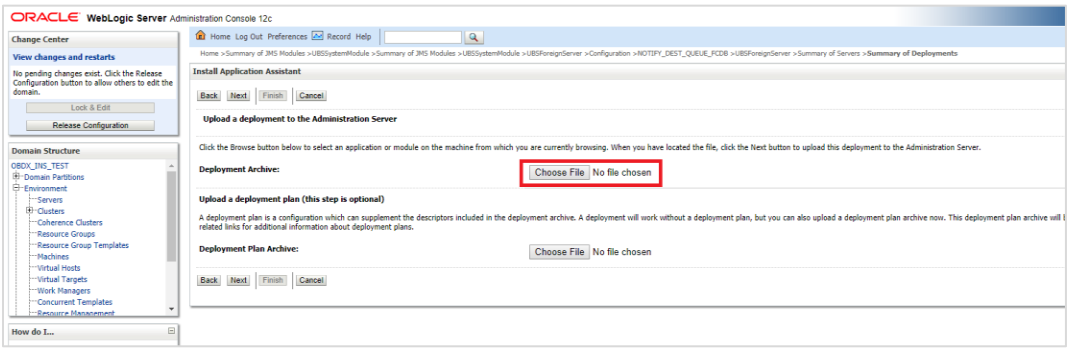
- Click on Install



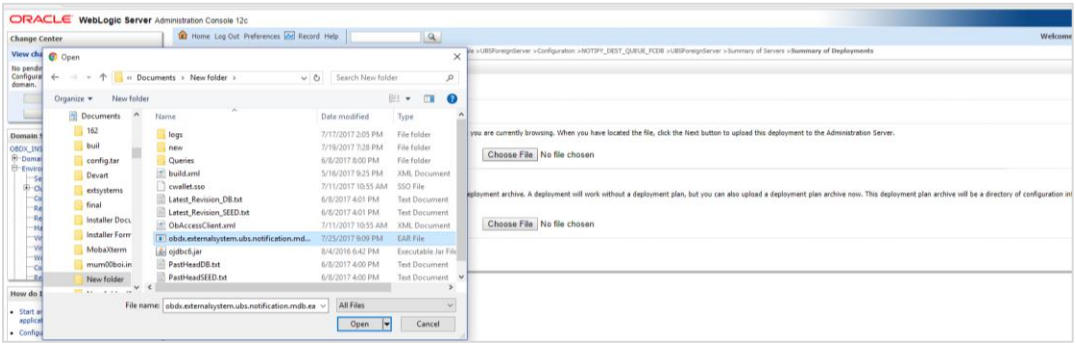
- Click on Upload your file(s)



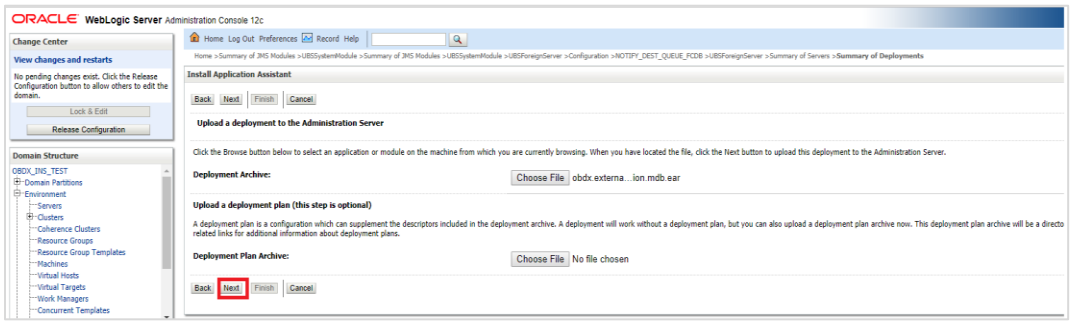
- Click on Choose File under Deployment Archive



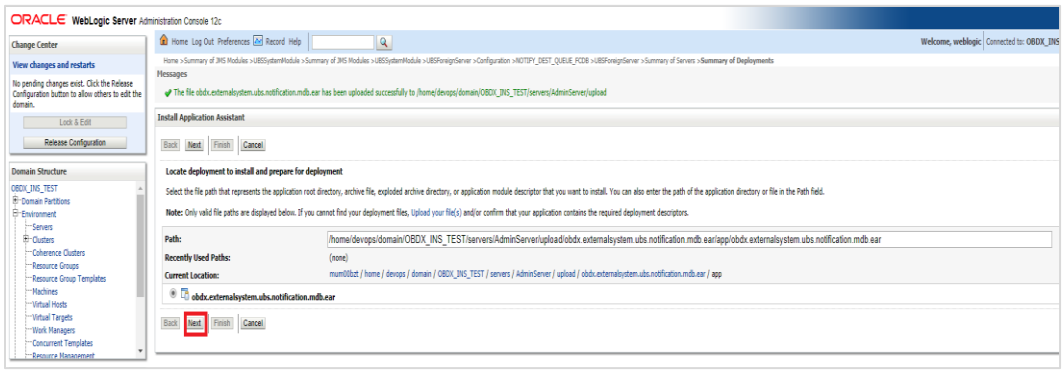
- Navigate to customized obdx.externalsystem.ubs.notification.mdb.ear and click Open



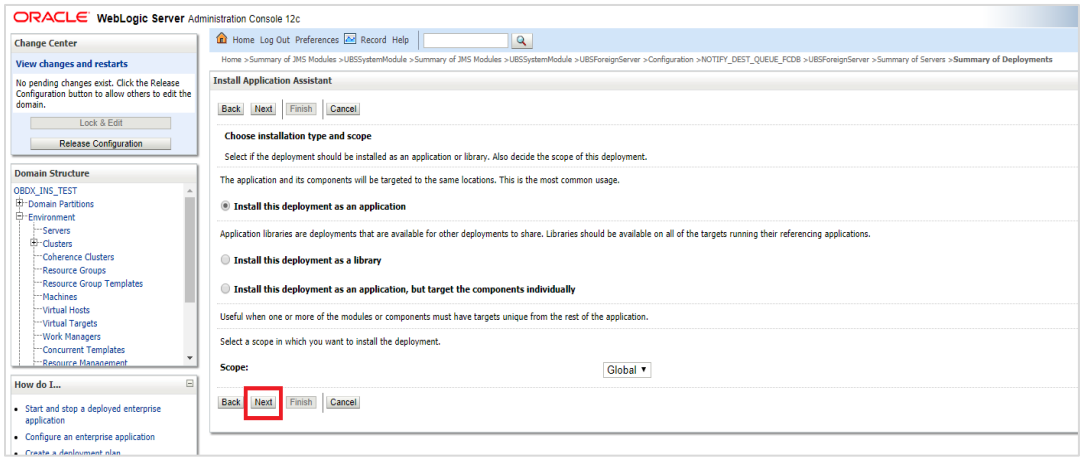
- Click Next



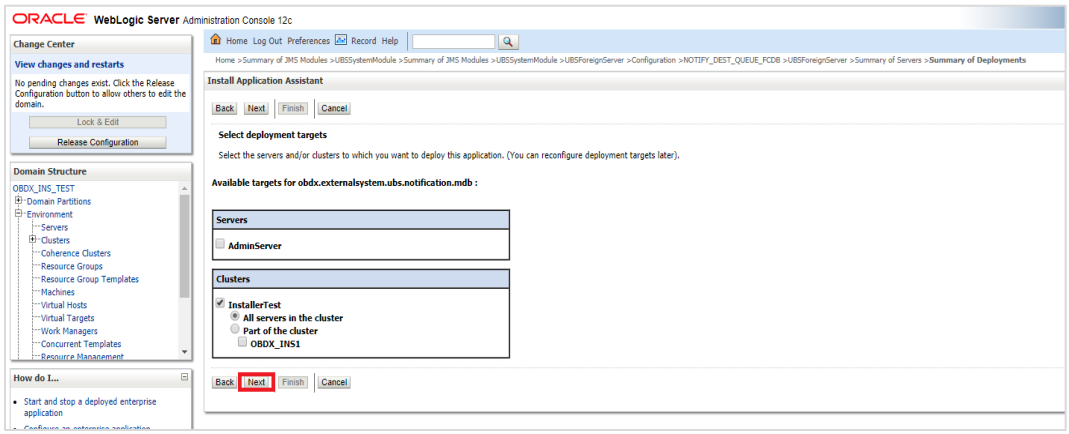
- Click Next



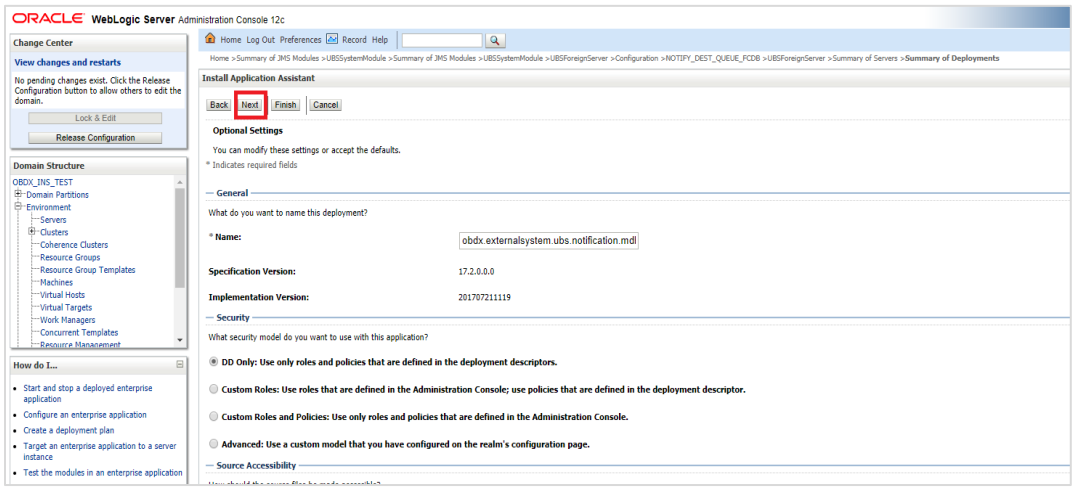
- Select “Install this deployment as an application” and click Next



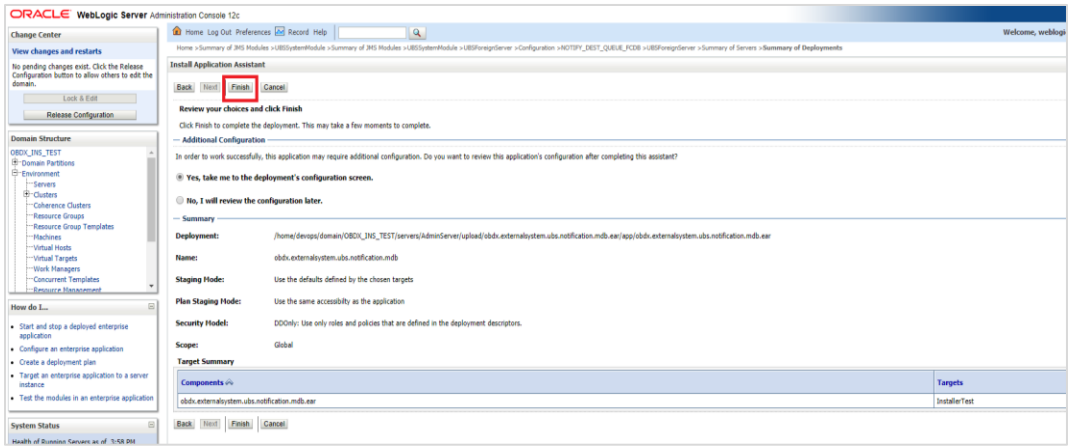
- Select Cluster as target and click Next



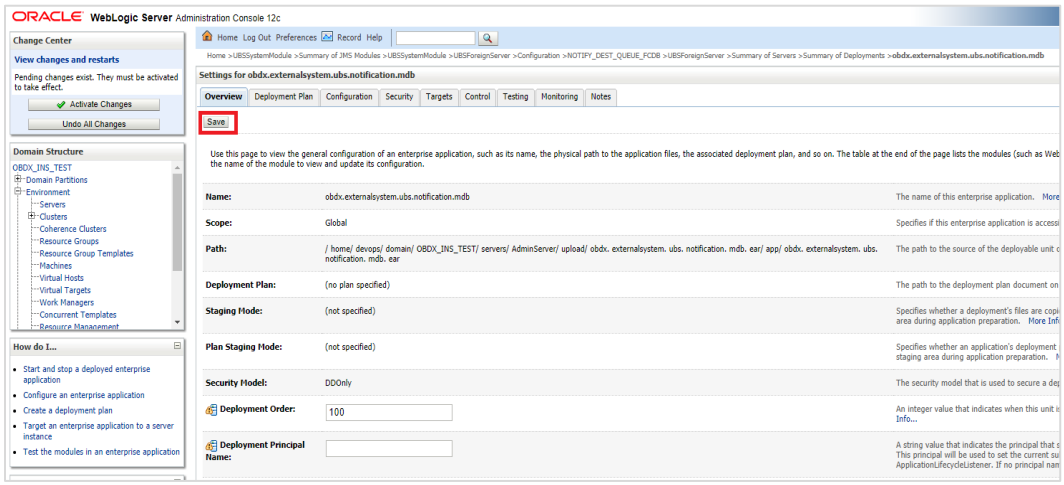
- Click Next



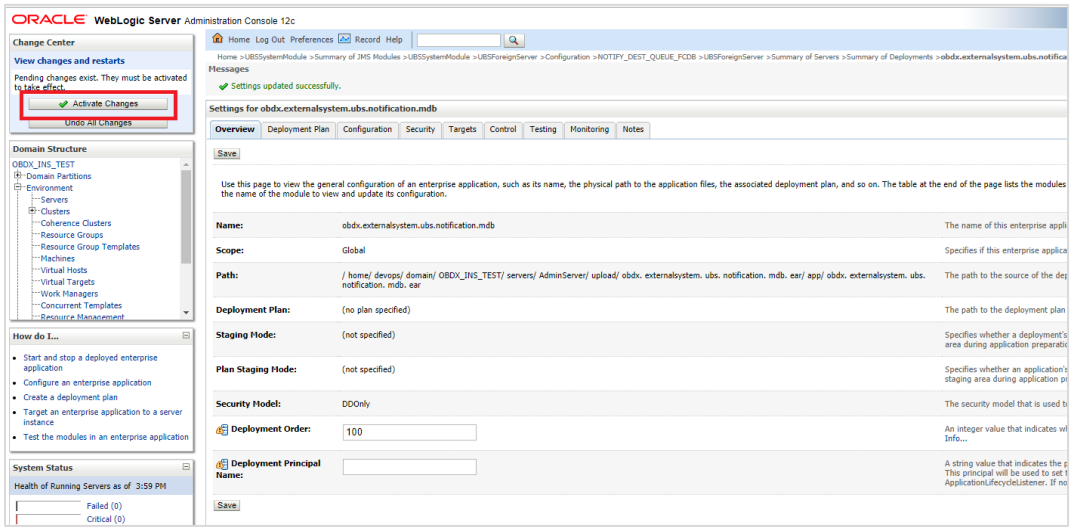
- Click Finish.

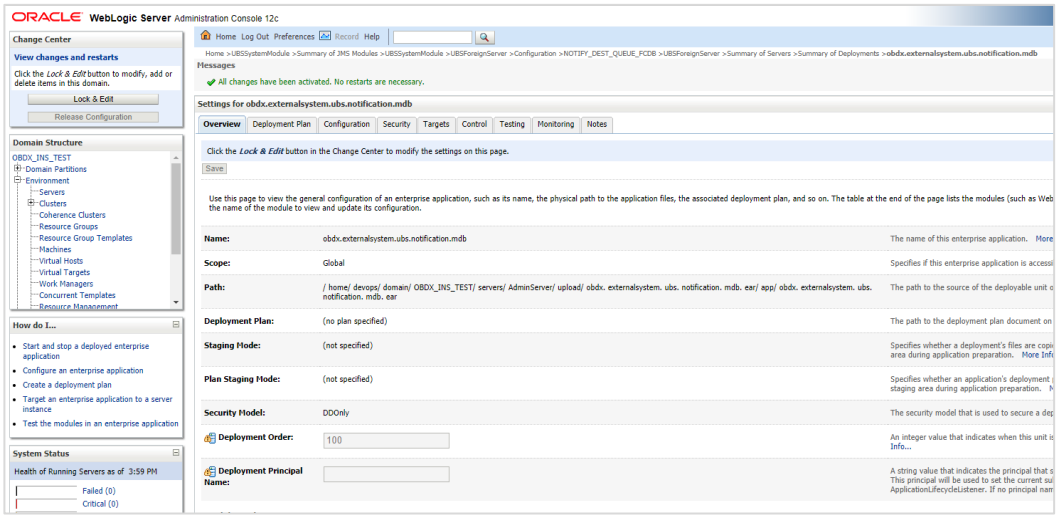


- Click Save.



- Click Activate Changes



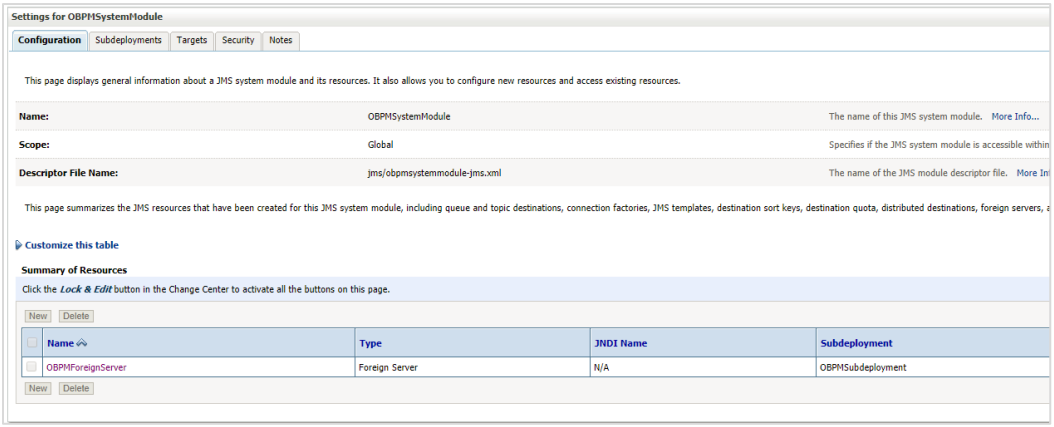


Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBDX with OBPM)

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**

Trade Finance (LC and BG) with OBTFPM

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

Oracle Banking Mid-Office Product Setup and Configuration Guide

OHS

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

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

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

Feedback module:

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

Home

9. OBDX Product Verification

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

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

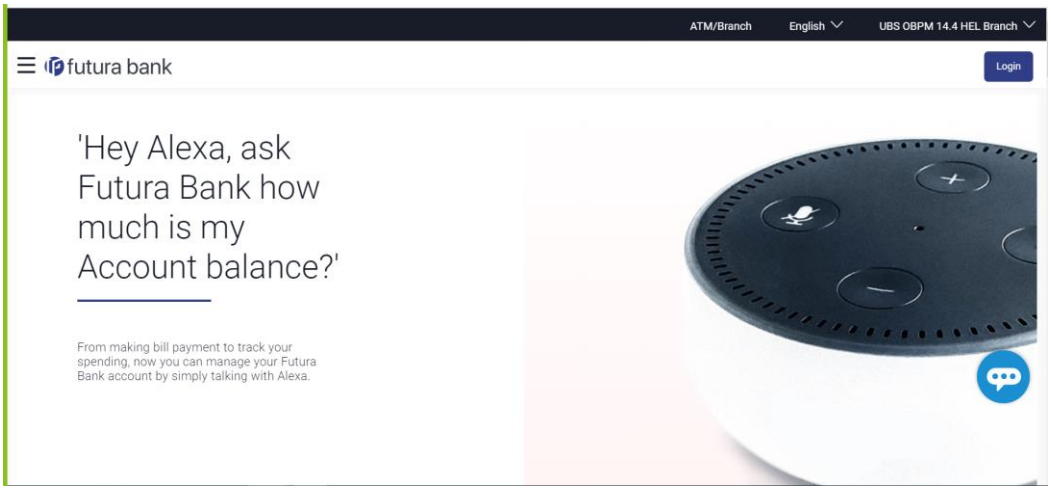
☐	obdx.app.core.domain (20.1.0.3.1,2096)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.app.domain (20.1.0.3.1,2096)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.app.framework (20.1.0.3.1,2096)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.app.mdb.report	Active	OK	Enterprise Application	obdx_cluster	Global		100
☐	obdx.app.oauth (20.1.0.3.1,2096)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.app.oauth.rest	Active	OK	Enterprise Application	obdx_cluster	Global		100
☐	obdx.app.rest.idm	Active	OK	Enterprise Application	obdx_cluster	Global		0
☐	obdx.app.scheduler	Active	OK	Enterprise Application	obdx_cluster	Global		100
☐	obdx.app.soap	Active	OK	Enterprise Application	obdx_cluster	Global		100
☐	obdx.cz.app.domain (19.2.0.0.0,1)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.cz.extsystem.domain (19.2.0.0.0,1)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.cz.thirdparty.app.domain (19.2.0.0.0,1)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.extsystem.domain (20.1.0.3.1,2096)	Active		Library	AdminServer, obdx_cluster	Global		0
☐	obdx.thirdparty.app.domain (20.1.0.3.1,2096)	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

Chat Bot Configuration:

Refer below document for Chat Bot configuration.

Oracle Banking Digital Experience Chatbot Configuration

Mobile Application Builder:

Refer below documents for Mobile Applications build and setup.

Oracle Banking Digital Experience Mobile Application Builder-Android

Oracle Banking Digital Experience Mobile Application Builder-iOS

Mid Office Configuration:

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

Oracle Banking Mid-Office Product Setup and Configuration Guide.

Account Uniqueness Configuration:

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

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


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

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

Home

10. Configuration for OUD/OAM

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

Weblogic configuration/ deployment

- **REST EAR deployment:**

  Undeploy 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

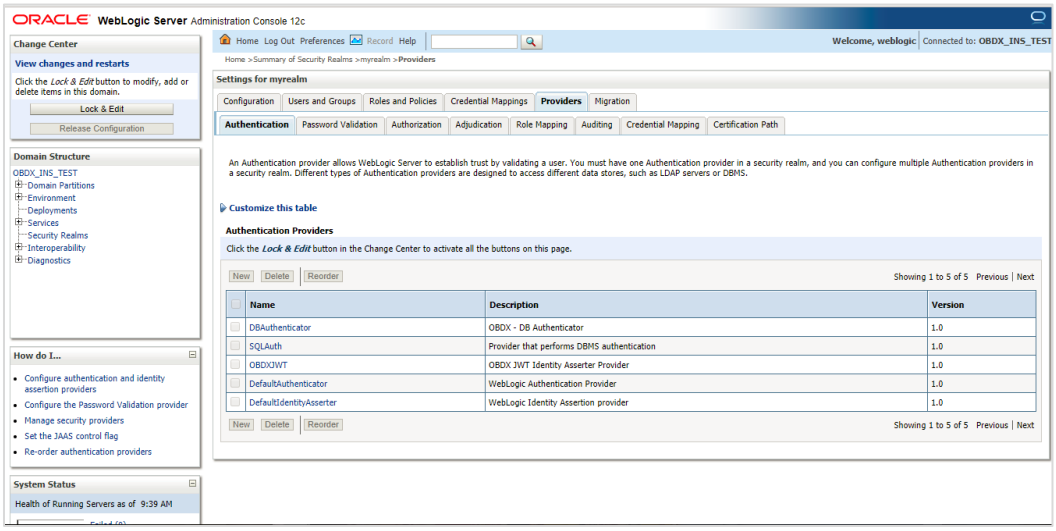
- **Security Realms**

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

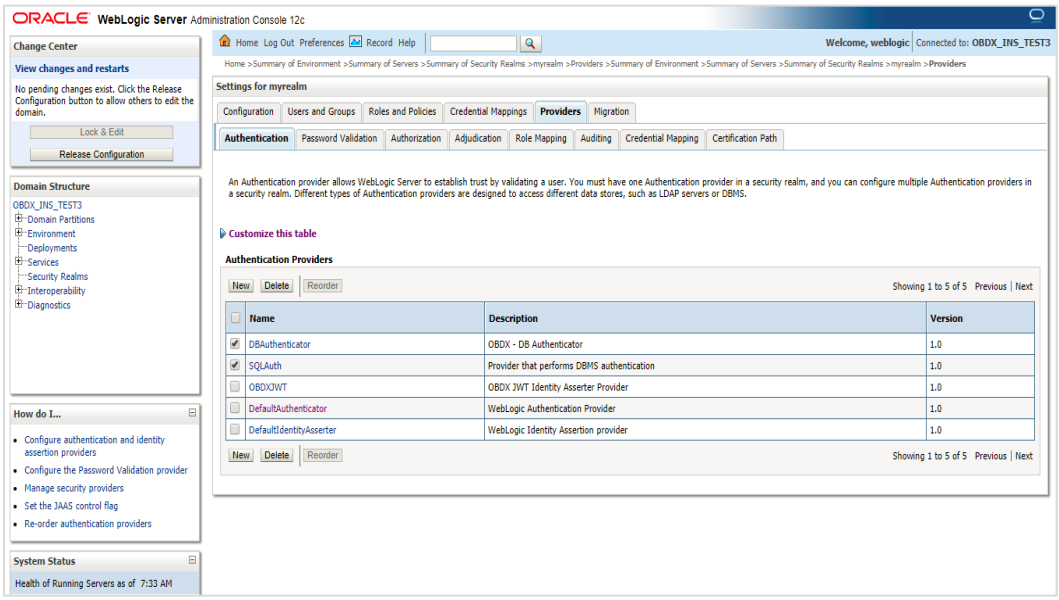
- Now, go to Security Realms > myrealm > Providers

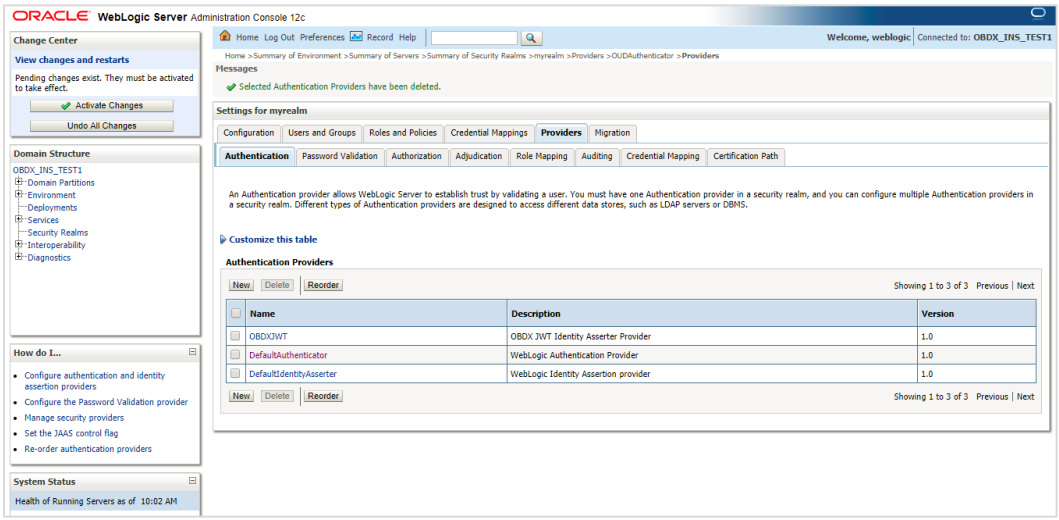


- Now click on **“Lock & Edit”** in order to edit the details.
- Delete the following Authenticators under providers-> **Authentication**:

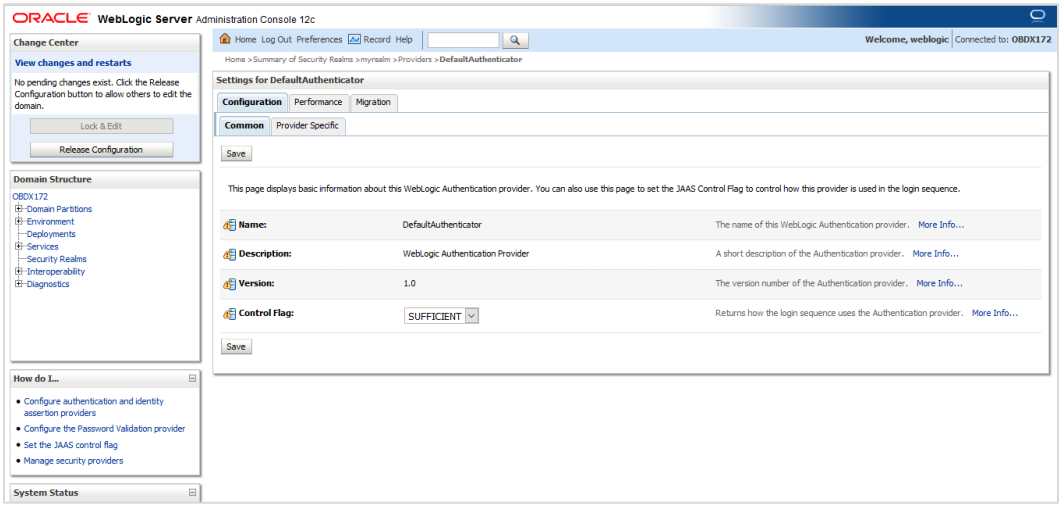
DBAuthenticator

SQLAuth

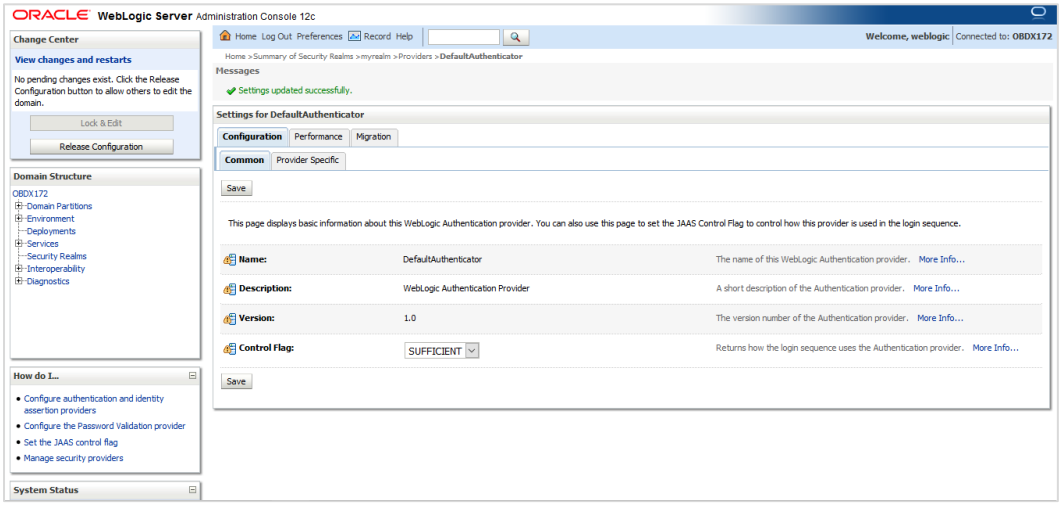




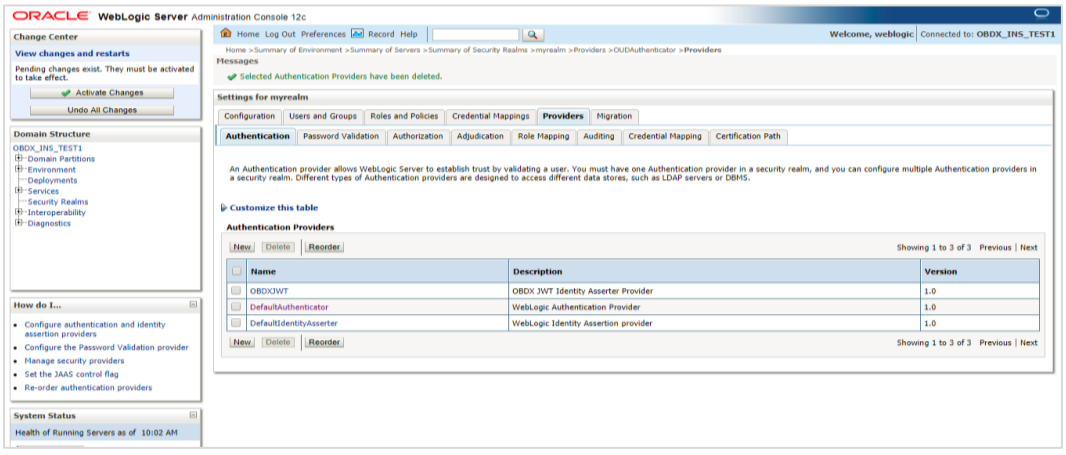
- Click on '**DefaultAuthenticator**" provider and change the Control Flag to SUFFICIENT



- Click on Save button to save the changes



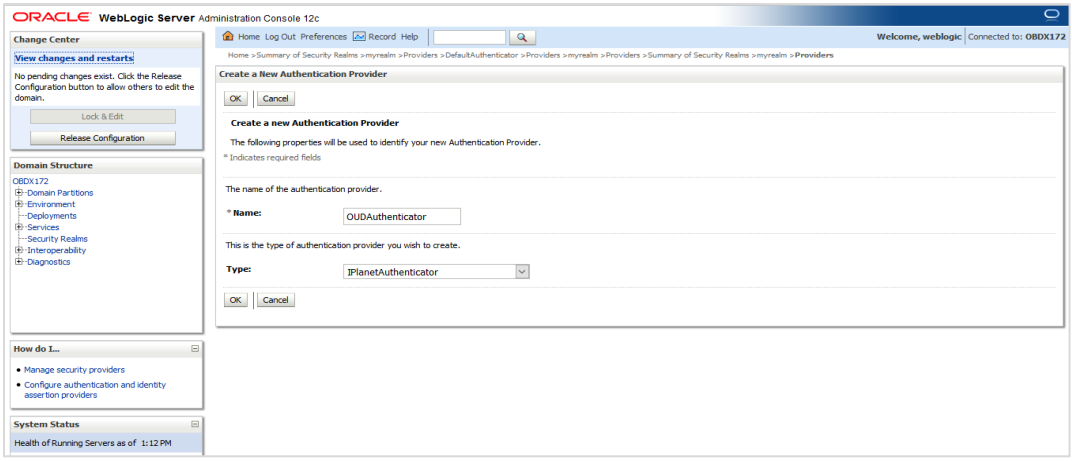
- Navigate Back to Security Realms > myrealm > Providers



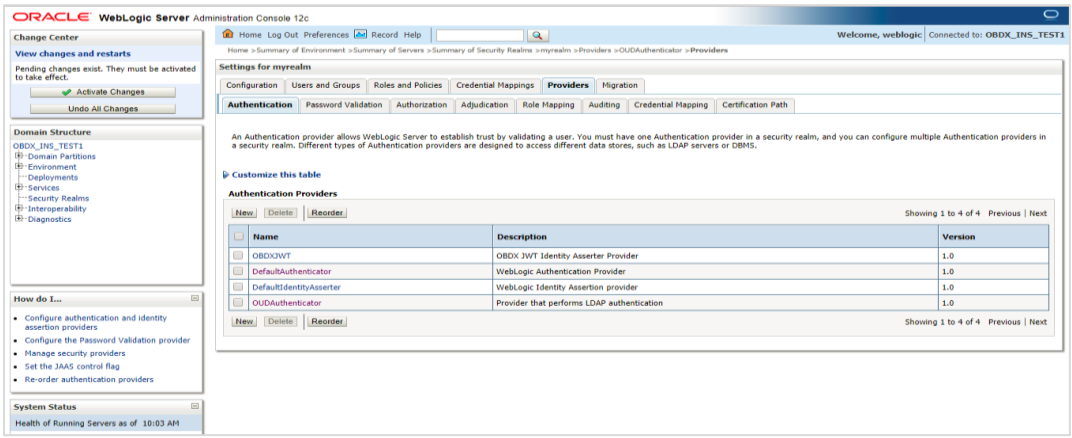
- Now, click on New and enter the below details and click Save.

Name : OUDAuthenticator

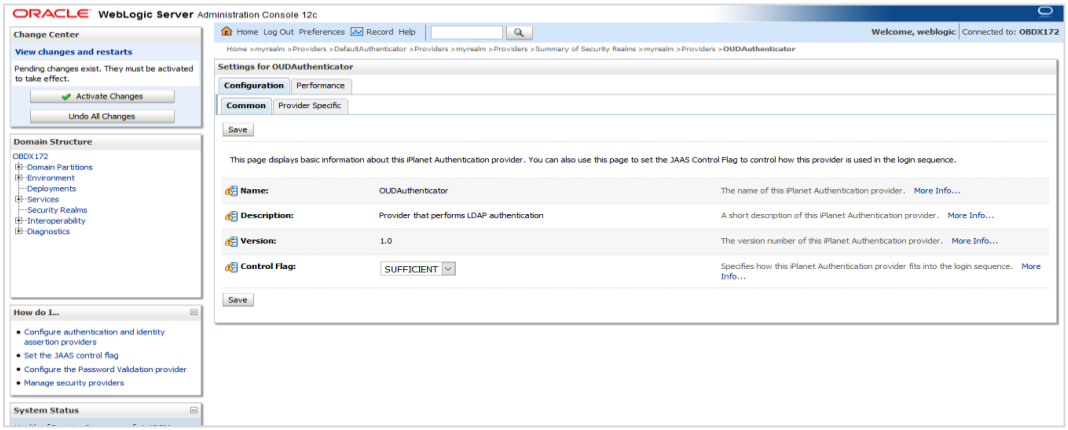
Type : OracleUnifiedDirectoryAuthenticator



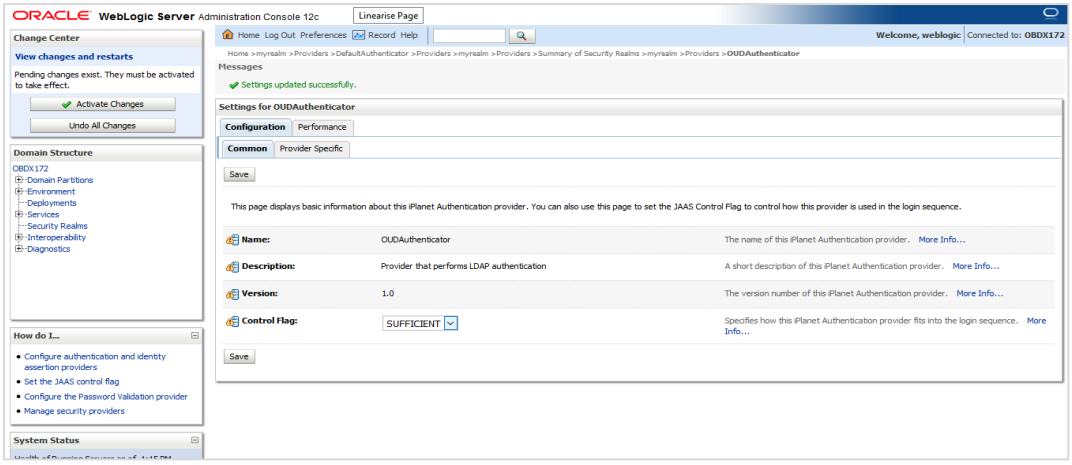
- Click on OK Button.



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

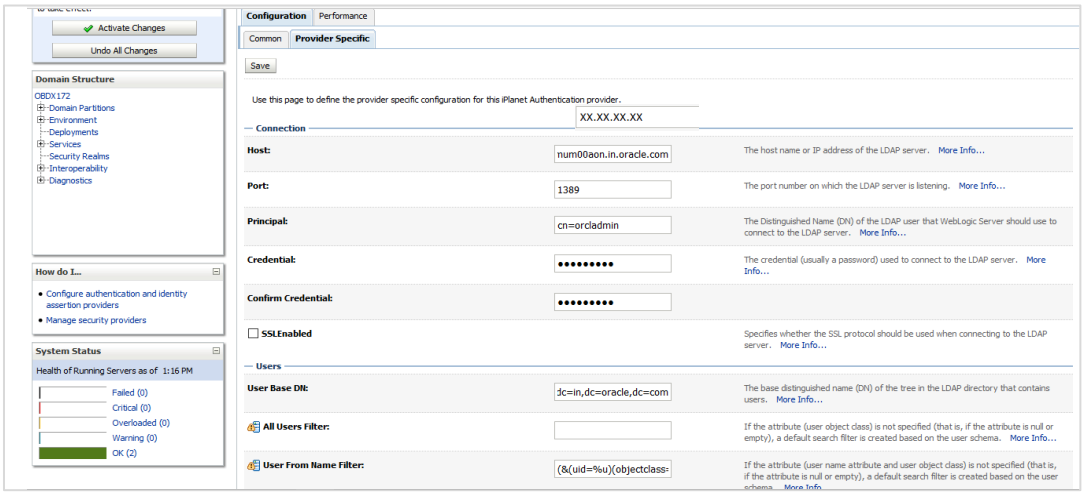


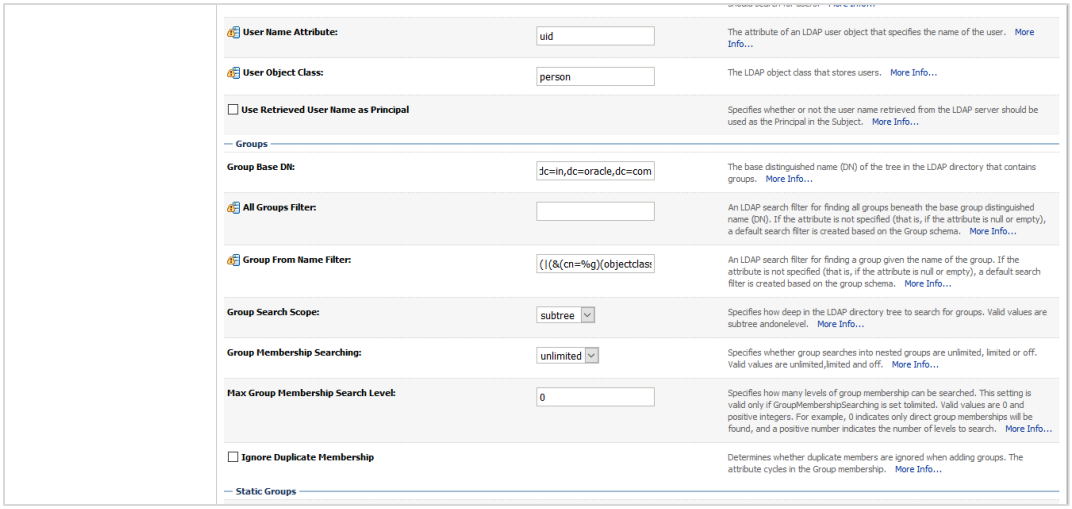
- Click on Save Button.



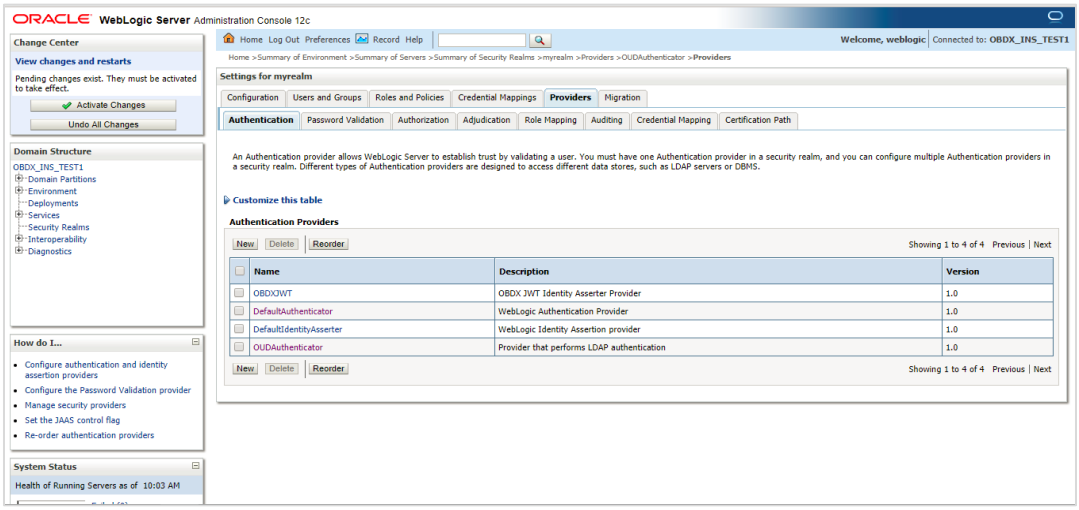
- Now under Provider Specific tab set the details of LDAP where the server should point. Refer to the following table for more information:

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





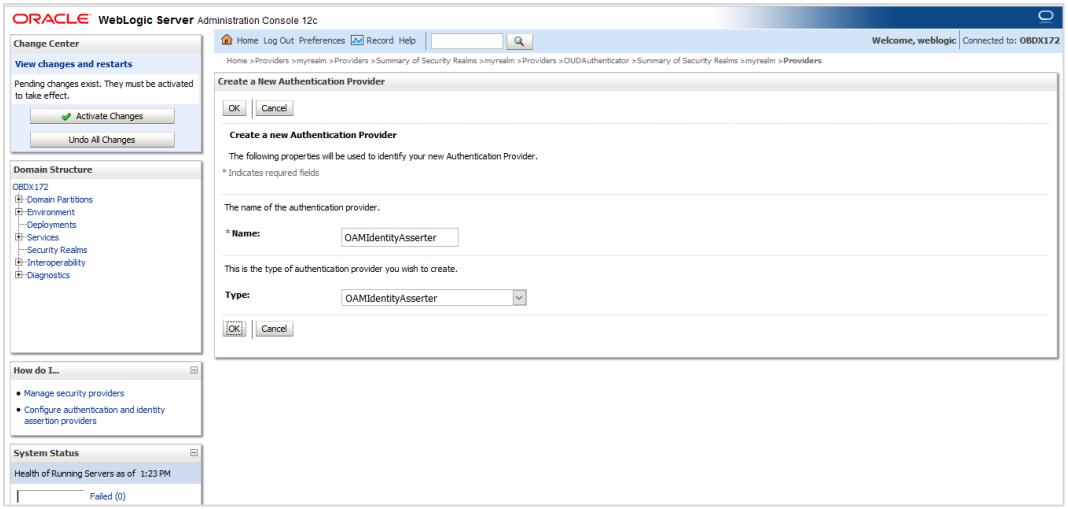
- Click on Save to update the changes.
- Navigate Back to Security Realms > myrealm > Providers



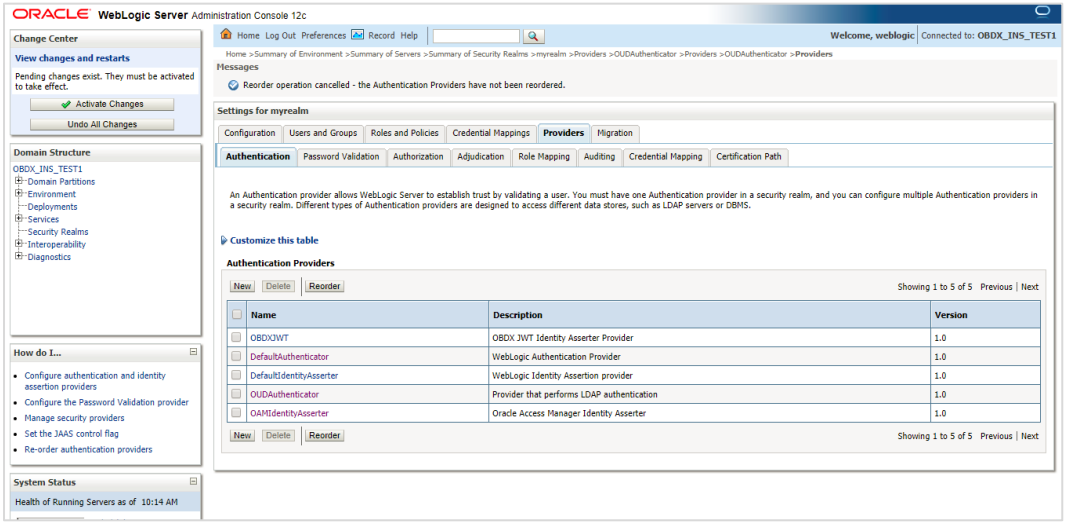
- Now, click on New and enter the below details and click Save.

  Name : OAMIdentityAsserter

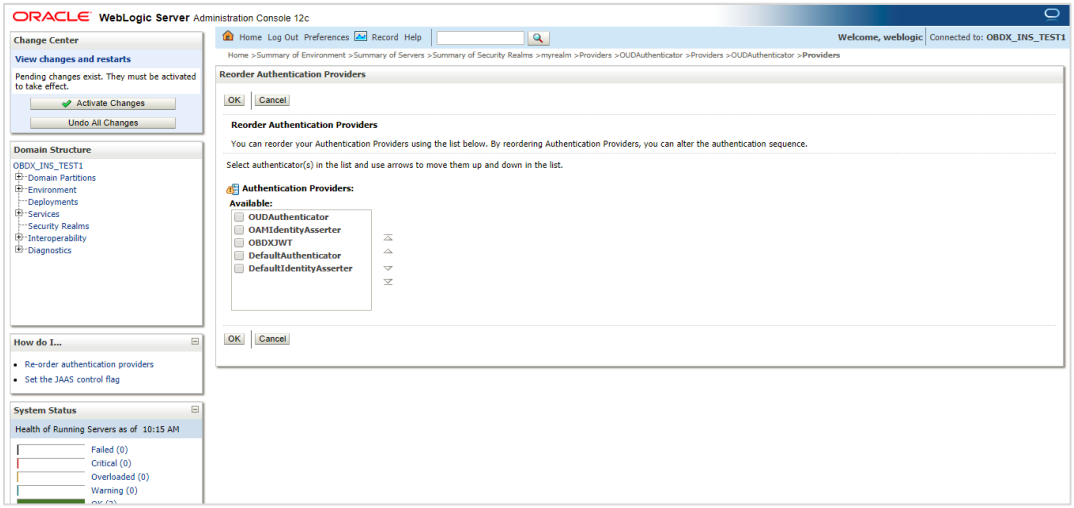
  Type : OAMIdentityAsserter



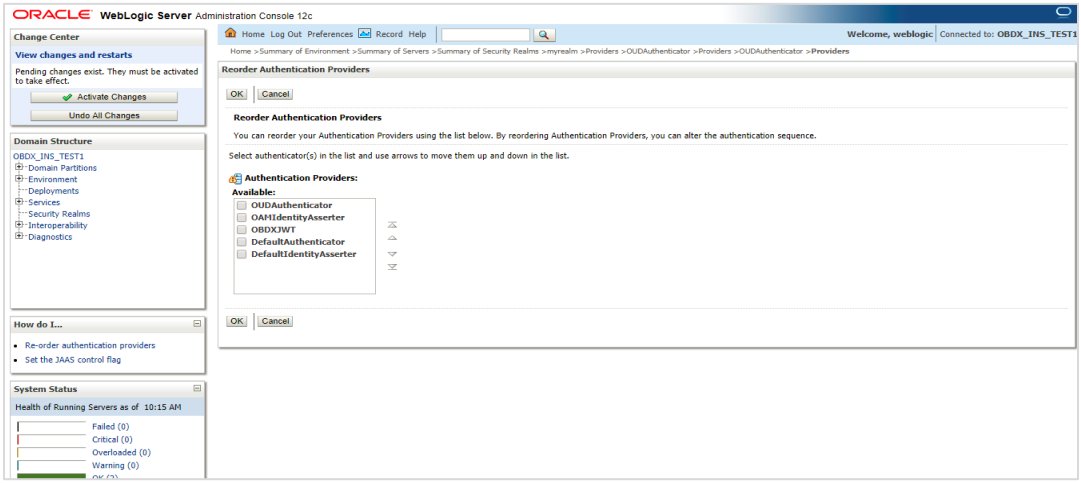
- Click on OK Button.



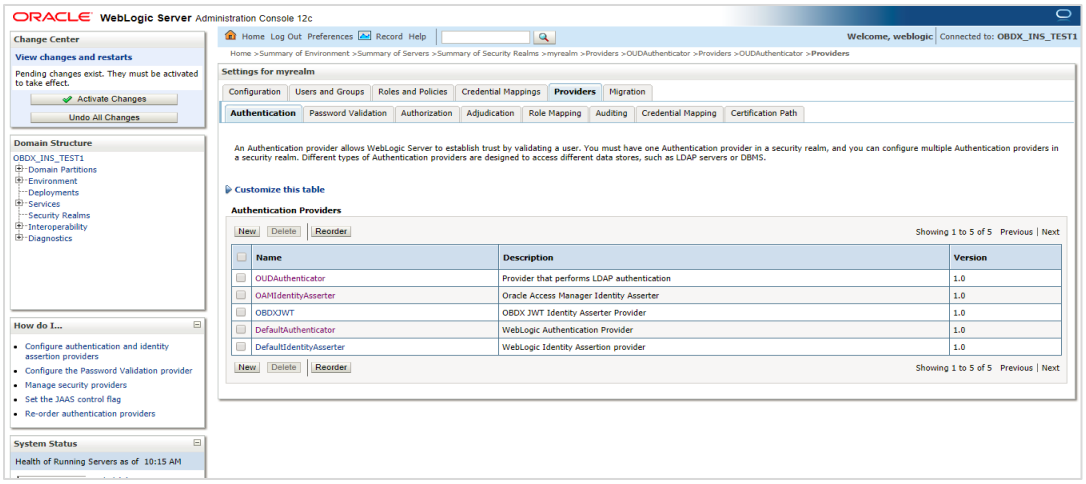
- Click on Reorder Button.



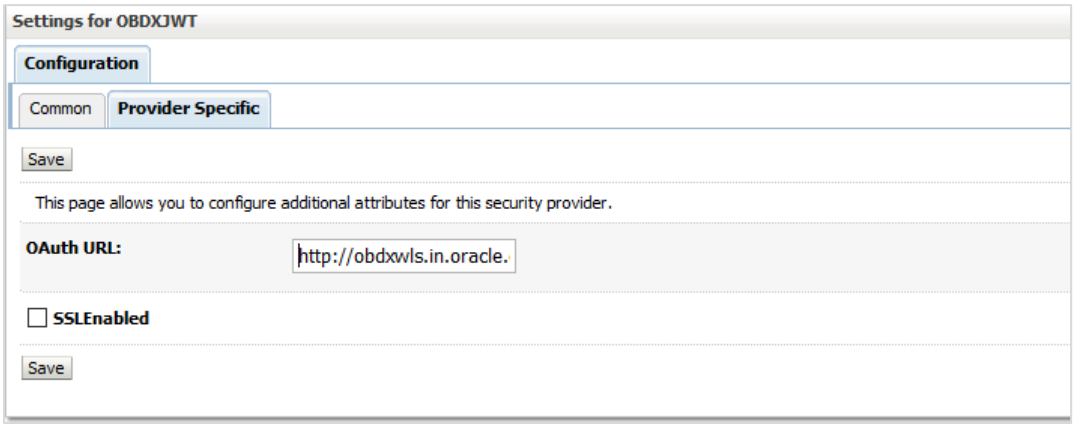
- Reorder the providers so that LDAP Provider (OUDAuthenticator) gets highest priority followed by OAMIdentityAsserter, OBDXJWT, DefaultAuthenticator, DefaultIdentityAsserter.



- Click on OK Button.

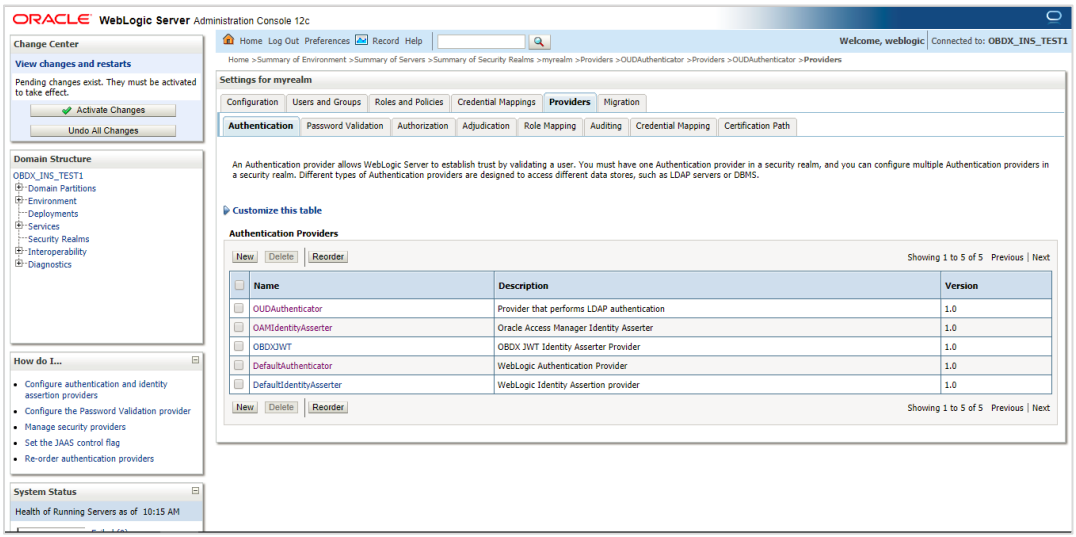


- Set the **OAuth URL for OBDXJWT**



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

- Click on Activate Changes to apply the changes.



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

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

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

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

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

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

  <DOMAIN_PATH>/<DOMAIN_NAME>/**bin/startWeblogic.sh**

➢ Run the following script into OBDX Schema:

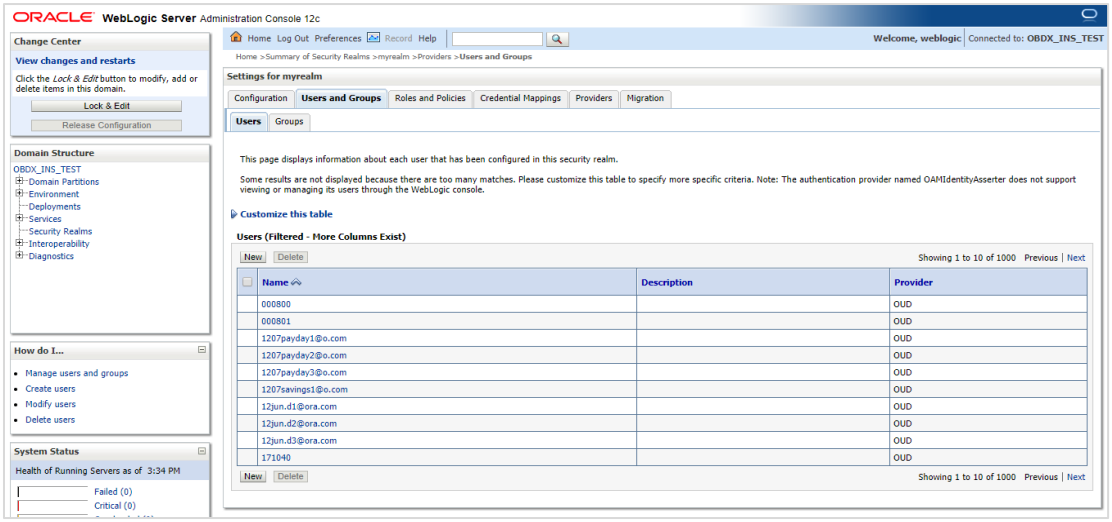
```
update DIGX_FW_CONFIG_ALL_B set prop_value =
'ipm1.0,ORACLEBI12.2.1.2,GENERIC1.0,OAM122130,OUD1.0' where prop_id = '01' and
category_id = 'extxfaceadapterconfig';

commit;
```

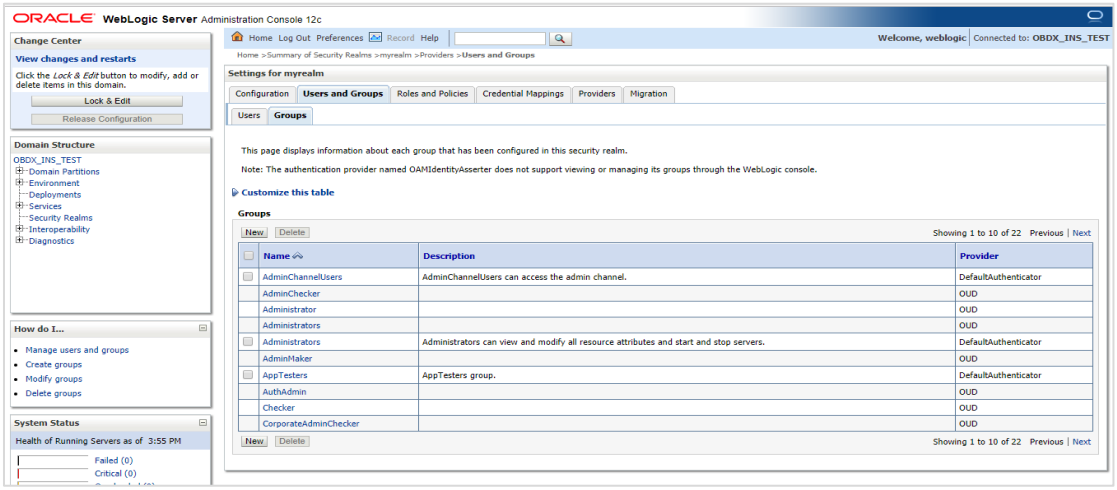
- Restart Managed Server

Verification

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

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


ORACLE WebLogic Server Administration Console 12c
Change Center
View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
OBDX_INS_TEST
Domain Partitions
Environment
Deployments
Services
Security Realms
Interoperability
Diagnostics
How do I...
Manage users and groups
Create users
Modify users
Delete users
System Status
Health of Running Servers as of 3:34 PM
Failed (0)
Critical (0)
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: OBDX_INS_TEST
Home >Summary of Security Realms >myrealm >Providers >Users and Groups
Settings for myrealm
Configuration Users and Groups Roles and Policies Credential Mappings Providers Migration
Users Groups
This page displays information about each user that has been configured in this security realm.
Some results are not displayed because there are too many matches. Please customize this table to specify more specific criteria. Note: The authentication provider named OAMIdentityAsserter does not support viewing or managing its users through the WebLogic console.
Customize this table
Users (Filtered - More Columns Exist)
New Delete
Showing 1 to 10 of 1000 Previous | Next
Name
Description
Provider
000800 OUD
000801 OUD
1207payday1@o.com OUD
1207payday2@o.com OUD
1207payday3@o.com OUD
1207savings1@o.com OUD
12jun.d1@ora.com OUD
12jun.d2@ora.com OUD
12jun.d3@ora.com OUD
171040 OUD
New Delete
Showing 1 to 10 of 1000 Previous | Next


ORACLE WebLogic Server Administration Console 12c
Change Center
View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
OBDX_INS_TEST
Domain Partitions
Environment
Deployments
Services
Security Realms
Interoperability
Diagnostics
How do I...
Manage users and groups
Create groups
Modify groups
Delete groups
System Status
Health of Running Servers as of 3:55 PM
Failed (0)
Critical (0)
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: OBDX_INS_TEST
Home >Summary of Security Realms >myrealm >Providers >Users and Groups
Settings for myrealm
Configuration Users and Groups Roles and Policies Credential Mappings Providers Migration
Users Groups
This page displays information about each group that has been configured in this security realm.
Note: The authentication provider named OAMIdentityAsserter does not support viewing or managing its groups through the WebLogic console.
Customize this table
Groups
New Delete
Showing 1 to 10 of 22 Previous | Next
Name
Description
Provider
AdminChannelUsers AdminChannelUsers can access the admin channel. DefaultAuthenticator
AdminChecker OUD
Administrator OUD
Administrators OUD
Administrators Administrators can view and modify all resource attributes and start and stop servers. DefaultAuthenticator
AdminMaker OUD
AppTesters AppTesters group. DefaultAuthenticator
AuthAdmin OUD
Checker OUD
CorporateAdminChecker OUD
New Delete
Showing 1 to 10 of 22 Previous | Next

Home

11. Multi Entity

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

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

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

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

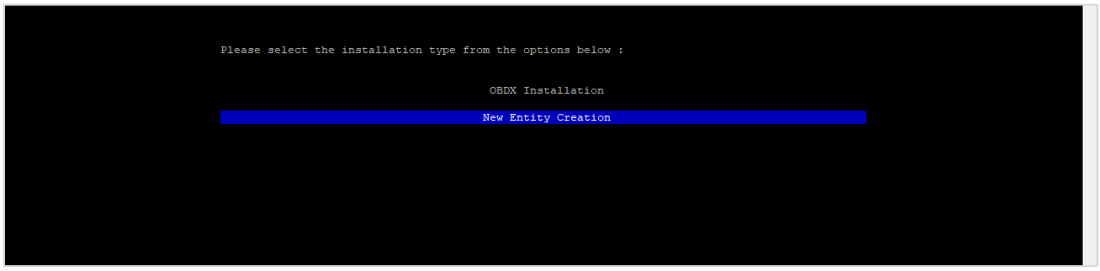
Login with OS user which was used to perform OBDX software installation (or has ownership on Oracle Weblogic home directory)

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

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

python3 runInstaller.py

Select installation type as ‘New Entity Creation’



Below screen will appear after selecting add entity

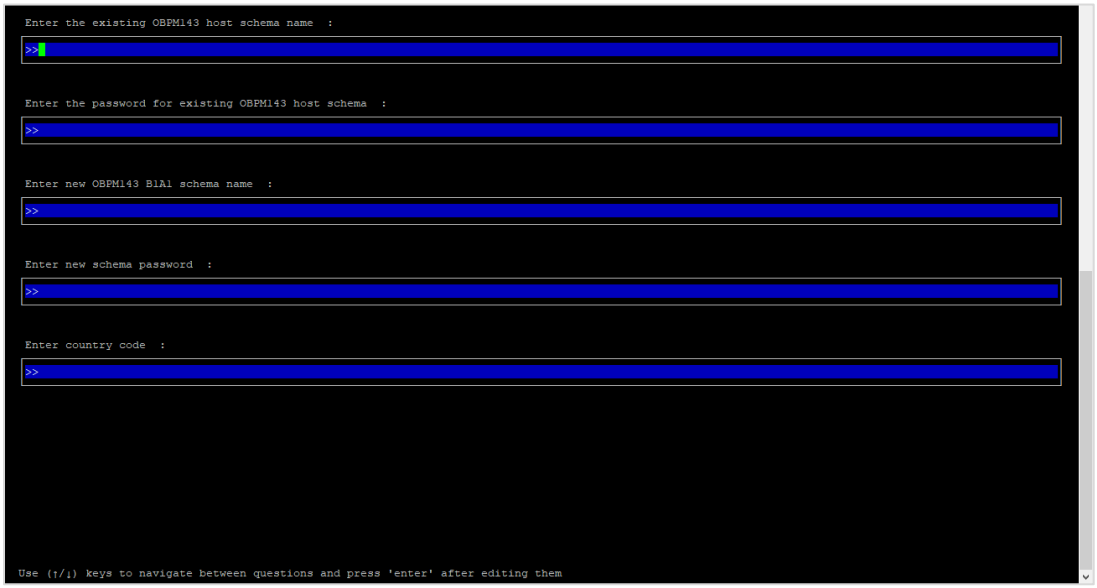
Enter below information:

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

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

Enter below details:

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

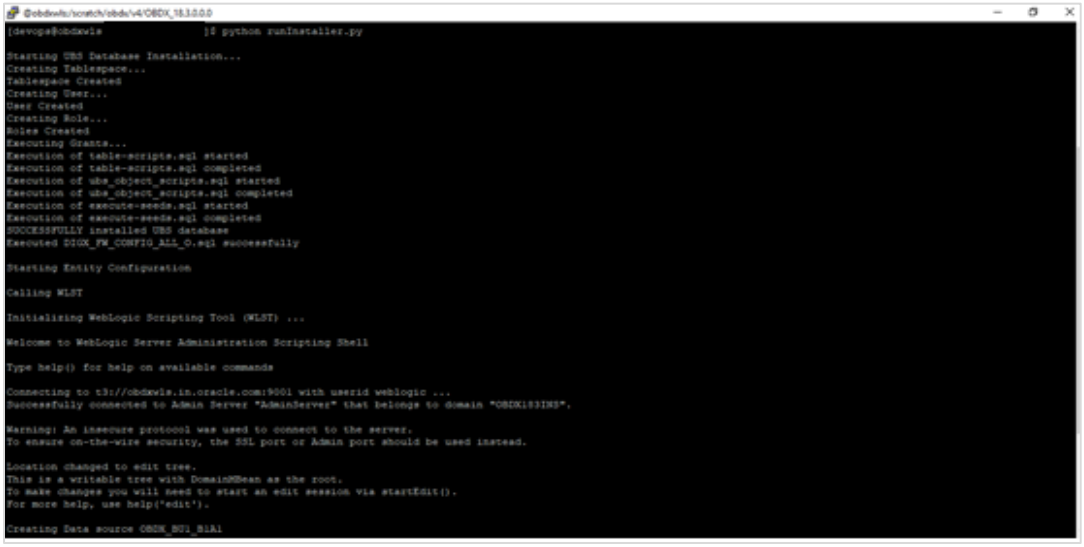


Enter below details:

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

Installation Status in case of UBS / OBPM

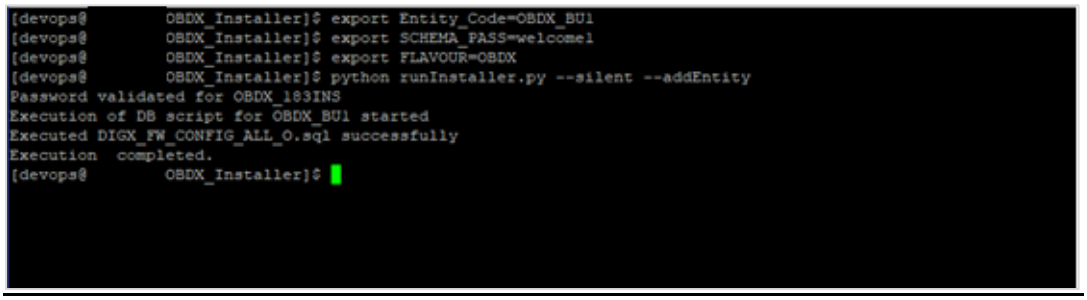
After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.



When the installation completes, the below message is displayed

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:



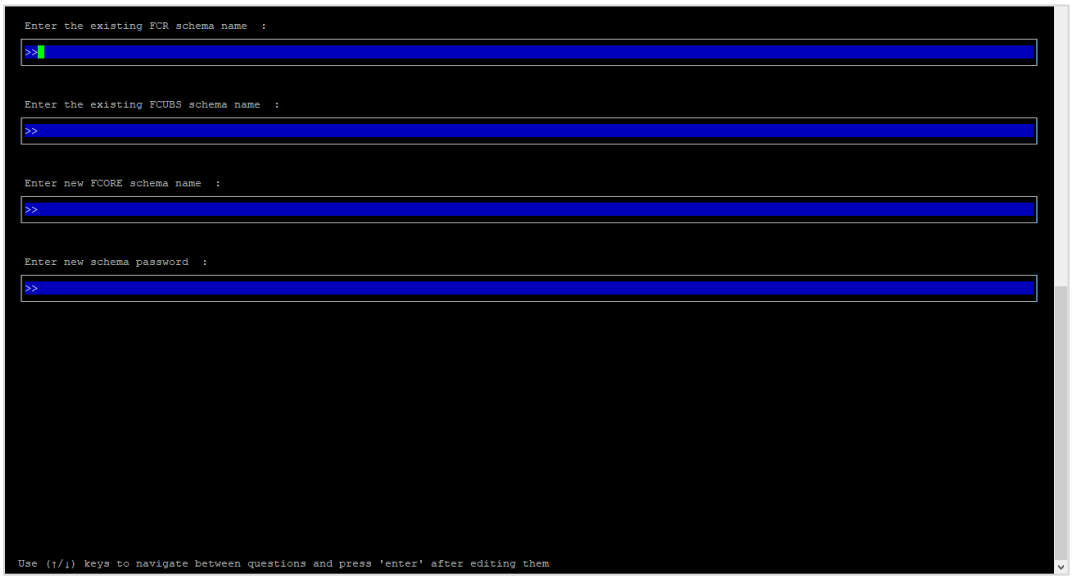
No additional steps/ configuration are required.

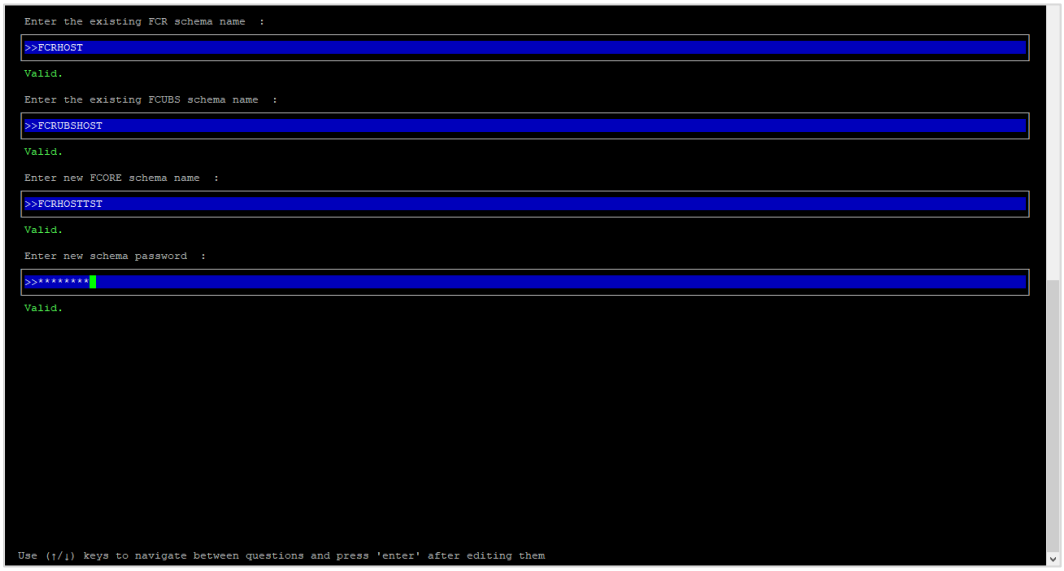
If an entity code belongs to Oracle FLEXCUBE Core Banking host following screen will appear:

Enter below details:

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

- Weblogic console administrator user password



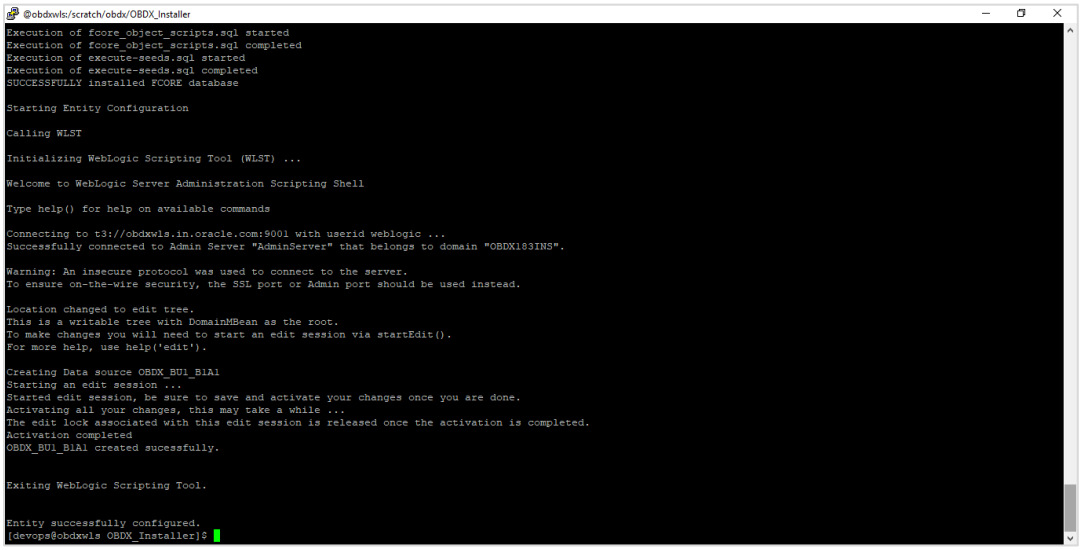


Enter below details:

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

Installation status for FCORE Add entity

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



No additional steps/ configuration are required.

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

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12. Multi-entity installation using Silent Mode

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

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

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

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

Steps for Silent-Mode Installation

- Set the environment variables, as shown below.

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

Below parameters should be set in environment variables

	Parameter	Description	Example
	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**

	Parameter	Description	Example
Environment variables to set for flavor: **FCORE** **UBS (14.4.0.0.0 release)** **OBPM** **(14.4.0.0.0 release)**	**ENTITY_EHMS_DATABASE_HOSTNAME**	Hostname of the EHMS HOST database host server	**export ENTITY_EHMS_DATABASE_HOSTNAME=xx.xx.xx.xx**
	ENTITY_EHMS_DATABASE_PORT	Port of the EHMS HOST database host server	**export ENTITY_EHMS_DATABASE_PORT=1521**
	ENTITY_EHMS_DATABASE_SID	EHMS Host database Service Name	**export ENTITY_EHMS_DATABASE_SID=obdxdb.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**

	Parameter	Description	Example
	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 ****This parameter is only required for UBS & OBPM Host**	Country Code for new or additional entity home branch	**export ENTITY_EHMS_CCY=GB**
	ENTITY_EHMS_FCORE_FCUBS_SCHEMA_NAME	FCORE-FCUBS HOST schema name	**export ENTITY_EHMS_FCORE_FCUBS_SCHEMA_NAME=FCRUBSHOST**

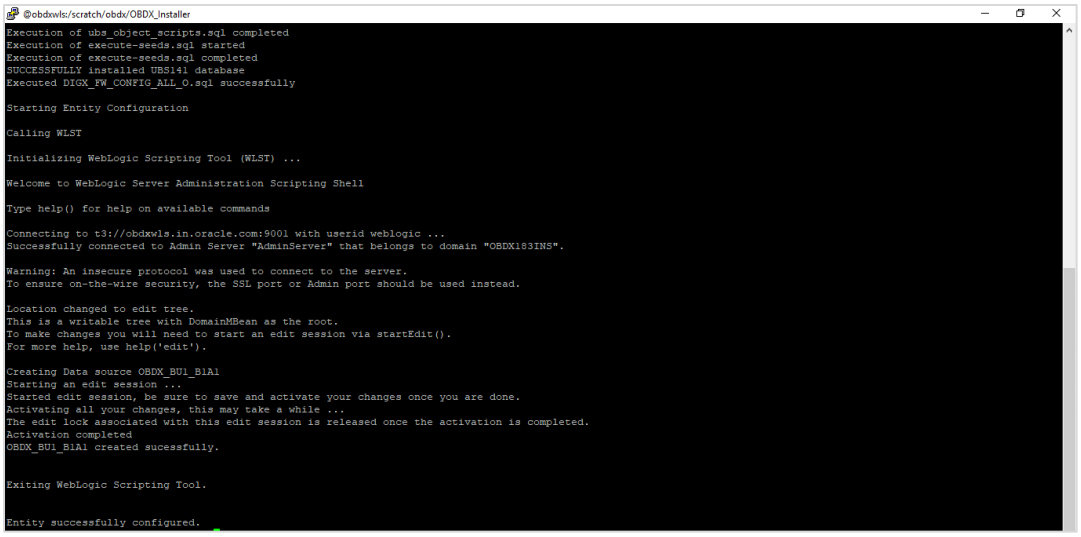
	Parameter	Description	Example
	****This parameter is only required for FCORE**		
Environment variables to set for flavor:	**Entity_Code**	Entity code which has been entered from screen	**export Entity_Code=OBDX_BU1**
OBDX (Third-party HOST)	**SCHEMA_PASS**	Password for existing OBDX schema	**export SCHEMA_PASS=welcome1**

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

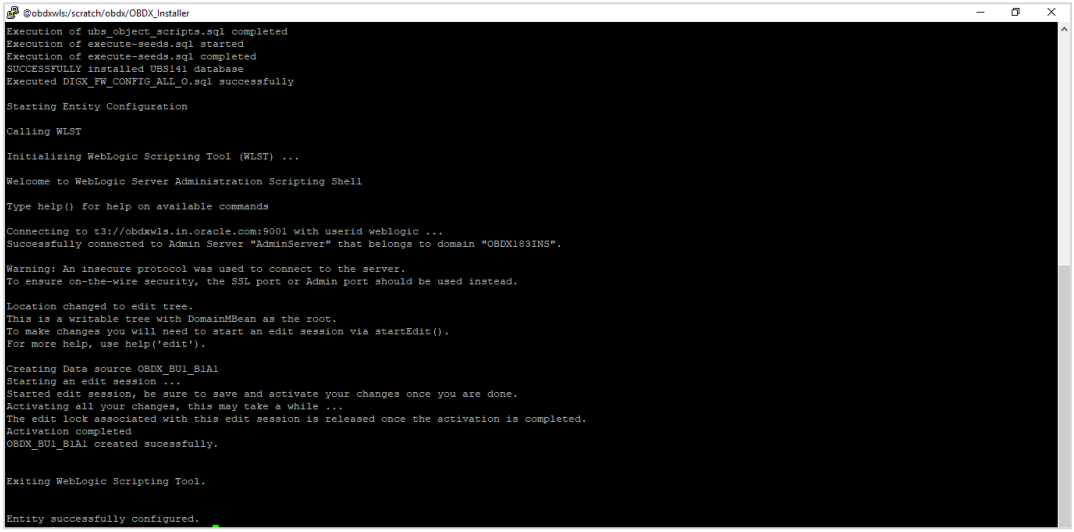
```
[devops@        /]$
[devops@        /]$ export Entity_Code=OBDX_BU7
[devops@        /]$ export SCHEMA_PASS=devops#obdx182
[devops@        /]$ export ENTITY_EHMS_DATABASE_HOSTNAME=mu xx.xx.xx.xx
[devops@        /]$ export ENTITY_EHMS_DATABASE_PORT=1521
[devops@        /]$ export ENTITY_EHMS_DATABASE_SID=obdxdb.in.oracle.com
[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.



When the installation completes, the below message is displayed



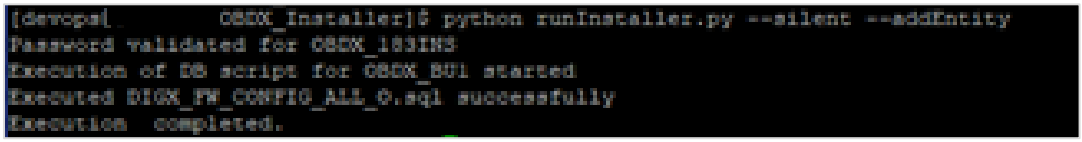
Post successful installation refer to “Section 8: Post Installation steps” for manual steps to be performed for

- 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)



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13. OBDX Product Security

Refer below document for OBDX product security configuration

Oracle Banking Digital Experience Security Guide

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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
  - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGING_DETAILS.sql

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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

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16. Troubleshoot Overview

This section describes how to troubleshoot OBDX setup.

Invalid database password

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

If you get the following error:

Try one of the following:

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

cx_oracle module

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

If you get the following error:

Execute the below command:

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

python

import cx_Orace

cx_Oracle.__version__

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

Failed Database Scripts

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

If you get the following error in DB_installation.log:

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

Check the detailed log of the failed SQL file at <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
```

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

e.g

```
############################################################

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


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

```
############################################################

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

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

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

for e.g.:

java -jar -Djava.util.logging.config.file='Task_log4j.properties' com.ofss.digx.utils.feed.data.task.jar 'Task.csv' "oracle.jdbc.OracleDriver,OBDX_THP181,Welcome#1,jdbc:oracle:thin:@ xx.xx.xx.xx:1521/OBDX"

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

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

for e.g.:

java -jar -Djava.util.logging.config.file='Entitlement_log4j.properties' com.ofss.digx.utils.entitlement.feed.data.jar 'Resources.csv,Entitlement.csv,Day0Policy.csv' 'KERNEL' "oracle.jdbc.OracleDriver,OBDX_THP201,Welcome#1,jdbc:oracle:thin:@ xx.xx.xx.xx:1521/OBDX"

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

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

java -jar -Djava.util.logging.config.file='<logs.properties>' com.ofss.digx.utils.dashboard.jar '<path>/ dashboard_json' "oracle.jdbc.OracleDriver,<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_THP201,Welcome#1,jdbc:oracle:thin:@xx.xx.xx.xx:1521/OBDX"

- Post successfully execution, restart Managed server.

Error while accessing EM console

Disable the libOVD adapter, change the <active>true</active> to

<active>false</active> in <Domain>/config/fmwconfig/ovd/default/adapters.os_xml

and restart domain servers.

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