

# Oracle Banking Digital Experience

Installer User Manual  
Release 17.2.0.0.0

Part No. E88573-01

July 2017

**ORACLE®**

Oracle Banking Digital Experience Installer User Manual

July 2017

Oracle Financial Services Software Limited

Oracle Park

Off Western Express Highway

Goregaon (East)

Mumbai, Maharashtra 400 063

India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax: +91 22 6718 3001

[www.oracle.com/financialservices/](http://www.oracle.com/financialservices/)

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# 1. Preface

## 1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

## 1.2 Documentation Accessibility

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

## 1.4 Structure

This manual is organized into the following categories:

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

The subsequent chapters cover following:

- Introduction
- Prerequisites
- Installation
- Post Installation Steps
- Product Verification

## 1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 17.2.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Licensing Guide
- Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual
- Oracle Banking Digital Experience OBP Base Setup and Configuration
- Oracle Banking Digital Experience OBP US LZN Setup and Configuration
- Oracle Banking Digital Experience OFSLL Setup Configuration
- Oracle Banking Digital Experience Origination Social Media Integration
- Oracle Banking Digital Experience OHS User Interface Configuration
- Oracle Banking Digital Experience Chatbot Configuration
- Oracle Banking Digital Experience Mobile Application Builder-Android
- Oracle Banking Digital Experience Mobile Application Builder-iOS

- Oracle Banking Digital Experience Security Guide
- Oracle Banking Digital Experience Third Party Configuration
- User Manual Oracle Banking Digital Experience Core
- Oracle Banking Digital Experience File Upload Report Configuration

## **2. Introduction**

### **2.1 Purpose of the Document**

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

It includes:

- Prerequisites software installation required for OBDX & OBDX installer
- Setup of OBDX with Oracle's own Core Banking and Origination Products.
- Running the installation in silent mode
- Advanced Configurations (Post installation)
- Installation Verification

### 3. Prerequisites

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

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

#### Installer Pre-requisite verification

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

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

#### Oracle Instant client

Step 1: Login using root user.

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

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

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

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

#### Python

Step 1: Execute python -V command

```
python -V
```

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

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

#### cx\_Oracle & Urwid

Step 1: Execute python command

```
python
```

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

Step 2: Import Urwid and check version

```
import urwid (Press Enter)  
urwid.__version__
```

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

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

---

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

---

Step 3: Similarly import cx\_Oracle and check version

```
import cx_Oracle (Press Enter)  
cx_Oracle.version
```

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

If version is displayed, then cx\_Oracle is installed and available for use.

---

**Note:** Ensure cx\_Oracle 5.2.1 supported version is installed. Above command should reflect the same.

---



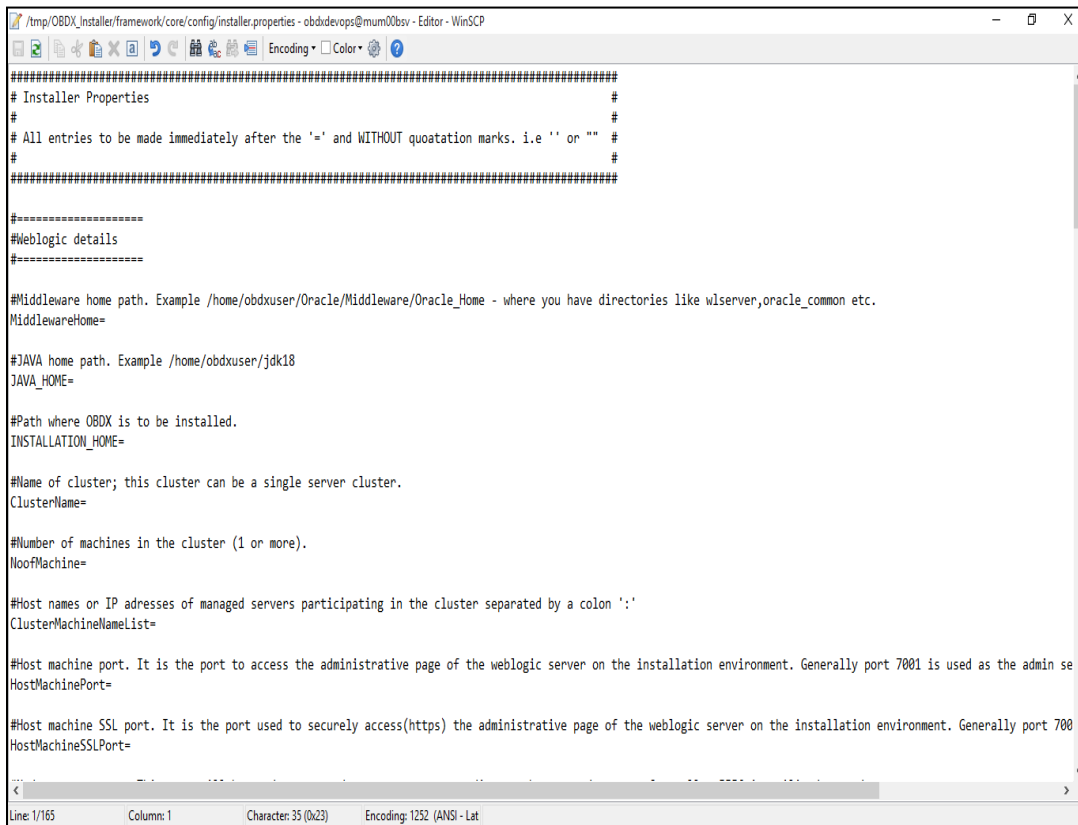
## 4. Installation

### Pre-Installation

- Install all the prerequisite software and packages mentioned above

### Steps of Installation

- Download and extract the installer zip file.
- Navigate to “OBDX\_Installer\core\config”
- Open the “installer.properties” file



```

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

#=====
#Weblogic details
#=====

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

#JAVA home path. Example /home/obdxuser/jdk18
JAVA_HOME=

#Path where OBDX is to be installed.
INSTALLATION_HOME=

#Name of cluster; this cluster can be a single server cluster.
ClusterName=

#Number of machines in the cluster (1 or more).
NoofMachine=

#Host names or IP addresses of managed servers participating in the cluster separated by a colon ':'
ClusterMachineNameList=

#Host machine port. It is the port to access the administrative page of the weblogic server on the installation environment. Generally port 7001 is used as the admin se
HostMachinePort=

#Host machine SSL port. It is the port used to securely access(https) the administrative page of the weblogic server on the installation environment. Generally port 700
HostMachineSSLPort=

```

### 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 DataSourceName, DataSourceJNDI, Flag values etc).
- Ensure there is no blank space after “=” sign

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

Component	Parameter	Description	Example
<b>OBDX DB</b>	DatabaseHostName	Enter the hostname of the database server which would host the database schema for OBDX and RCU	ofss310759
	DatabaseHostPort	Enter the port no. of the database listener	1521
	DatabaseHostSID	The Oracle System ID (SID) or Service Name is used to uniquely identify a particular database on a system. This should be the same SID used during the database installation.	OBDXSID
	DB_SYS_USER	Enter the username with 'sys' privileges	sys
	POST_FIX	For OBDX schema name like "OBDX_DEV" POST FIX is 'DEV'	DEV
	DIRECTORY_NAME	Enter the Oracle directory name in which you want the database datafile (dbf) to be created. Enter only the name NOT the path	OPATCH_LOG_DIR
<b>UBS DB</b>	DatabaseHostNameUBS	Enter the hostname for the UBS HOST database host server	ofss310759
	DatabaseHostPortUBS	Enter the port no. of the UBS database listener	1521
	SCHEMA_NAME_UBS	Enter the Complete UBS B1A1 (HostInterface) schema name you want installer to create as new schema.	UBSSCHEMA123
	DIRECTORY_NAME_UBS	Enter the Oracle Directory name in which you want the UBS B1A1 (HostInterface) schema datafile (dbf). Enter only the name and NOT the path	OPATCH_LOG_DIR
	DB_SYS_USER_UBS	Enter the username with 'sys' privileges	sys
	DatabaseHostSID_UBS	Enter the UBS Host database SID or Service Name	UBSSID

	UBS_SCHEMA	Enter the EXISTING UBS Host schema name	OBDXUBS
	UBS_CCY	Enter the Country code for UBS HOME Branch	GB
	UBS_HB	Enter the Branch code for code for UBS HOME Branch	AT3
<b>WEBLOGIC SERVER</b>	MiddlewareHome	Middleware home path. Example /home/obdxuser/Oracle/Middleware/Oracle_Home - where you have directories like wlsuser,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. <b>DO NOT KEEP INSTALLATION_HOME AS MiddlewareHome.</b>	/home/obdxuser/obdx
	DOMAIN_PATH	Path where OBDX Weblogic domain should be created. Users can now enter custom path as per their requirements.	/home/obdxuser/domains
	ClusterName	Name of cluster; this cluster would only have single managed server.	obdx_cluster
	NoofMachine	Number of machines in the cluster. <b>Currently only single node is supported.</b>	1
	ClusterMachineName List	Host names or IP addresses of managed servers participating in the cluster separated by a colon ':'. <b>Currently only single node is supported.</b>	ofss310759
	HostMachinePort	Host machine port. It is the port to access the administrative page of the weblogic server on the installation environment. Generally port 7001 is used as the admin server port.	7001

	HostMachineSSLPort	Host machine SSL port. It is the port used to securely access (https) the administrative page of the weblogic server on the installation environment. Generally port 7002 is used as the admin server port.	7002
	NodeManagerPort	Node manager port. This port will be used to run node manager corresponding to the managed server. <b>Custom ports are supported.</b>	5556
	ManagedServerName	Managed server name. This will be the name of the managed server created in the cluster followed by indexes. eg- If this is set as 'clip' managed servers would be clip1etc.	clip
	ManagedServerPort	Managed Server Port. Managed server will utilize this port for hosting OBDX components and associated resources.	9001
	DomainName	Enter Weblogic Domain name.	obdx_domain1
	DomainUserID	Domain user ID and password. In order to restrict the access of domain, credentials are needed. The user id will be used to access the Weblogic Administrator Console.	weblogic
	AsyncFailureLogFileStore	Set the path for the persistence stores of the AsyncFailure JMS modules. <b>DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.</b>	/scratch/obdx/AsyncFailure
	FileUploadFileStore	Set the paths for the persistence stores of the FileUpload JMS modules. <b>DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.</b>	/scratch/obdx/FileUpload
	AuditFileStore	Set the paths for the persistence stores of the Audit JMS modules. <b>DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.</b>	/scratch/obdx/Audit

	ReportsFileStore	Set the paths for the persistence stores of the Reports JMS modules. <b>DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.</b>	/scratch/obdx/Reports
	ExtSystemReceiverFileStore	Set the paths for the persistence stores of the ExtSystemReceiver JMS modules. <b>DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.</b>	/scratch/obdx/Receiver
	ExtSystemSenderFileStore	Set the paths for the persistence stores of the ExtSystemSender JMS modules. <b>DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.</b>	/scratch/obdx/Sender
	JMSForeignServerURL	Set the IP and port for UBS Managed server where JMS queue are available ( <b>Specific to OBDX – UBS flavor</b> )	10.184.135.59:7860
<b>RCU</b>	STBSchemaPrefix	STB schema name prefix. If schema name is OBDX_STB then OBDX is the prefix.	OBDXSTB40

**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.

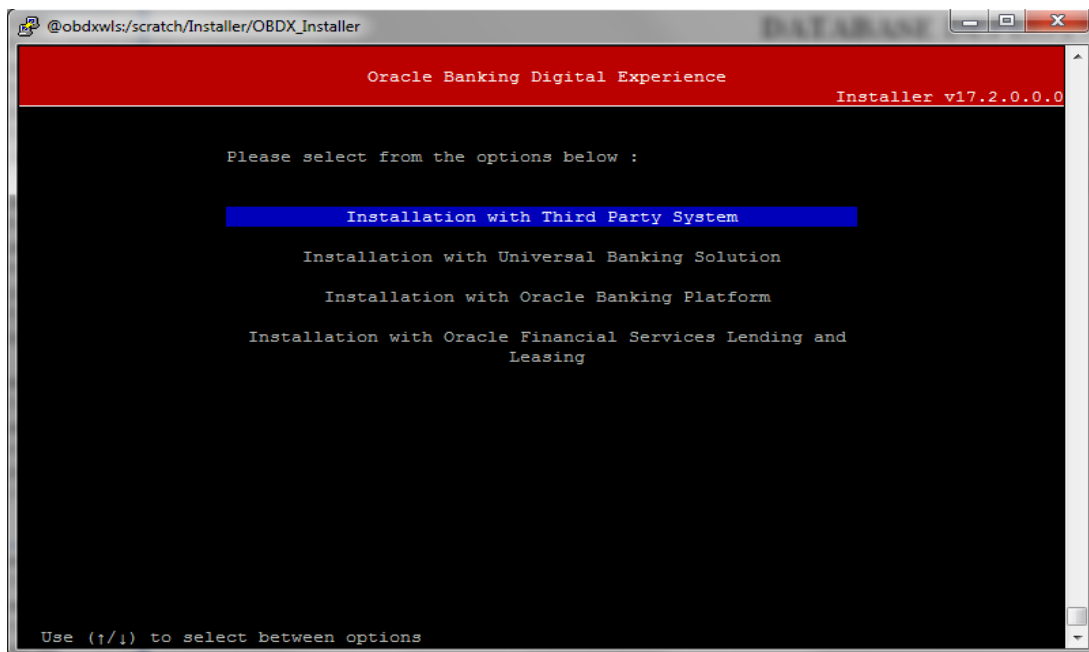
Login with OS user which was used to perform OBDX software installation (or has ownership on Oracle Weblogic home directory)

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

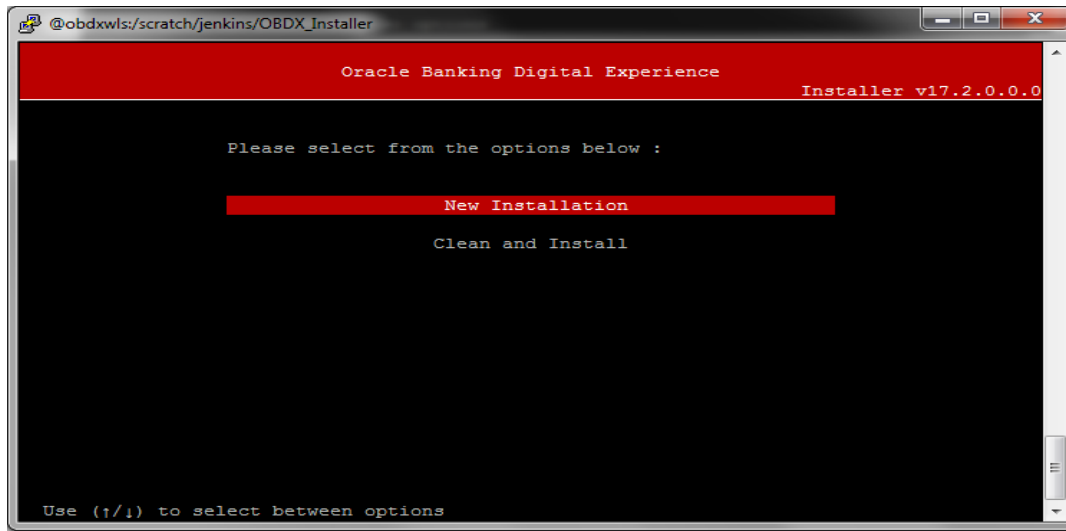
- From your terminal navigate to OBDX\_Installer/
- Enter the following command

**python runInstaller.py**

Select the appropriate flavor for Installation



Select the mode of Installation

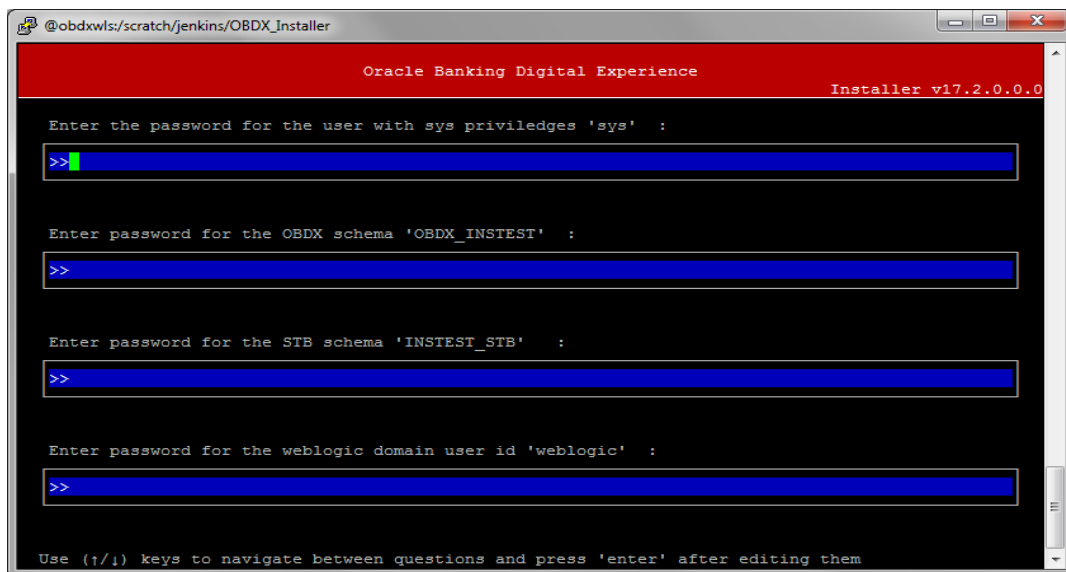


### Mode of Installation - New Installation

- New installation

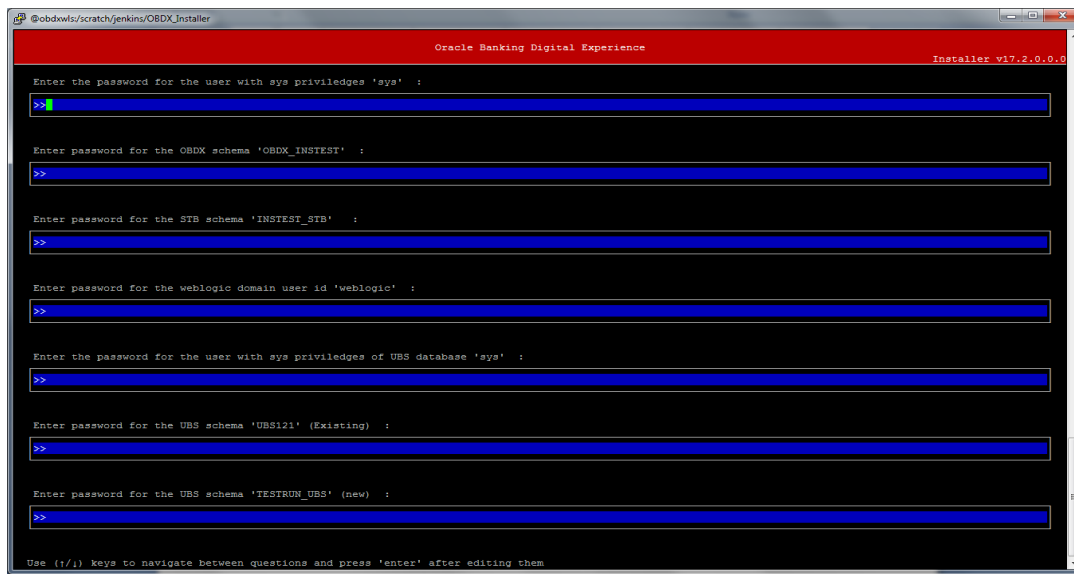
In-case of a fresh installation of OBDX with appropriate flavor for the first run on server. Below screens would appear with respective to flavor selected

### **OBDX (Installation with Third Party System)**



**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 with UBS (Installation with Universal Banking Solution)****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 EXT schema password

**OBDX with OBP (Installation with Oracle Banking Platform)**

No additional input required. Screen is same as seen in OBDX flavor.

**OBDX with FLL (Installation with Oracle Financial Services Lending and Leasing)**

No additional input required. Screen is same as seen in OBDX flavor.



## **Mode of Installation - Clean and Install**

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 EXT schema in-case of OBDX UBS flavor) and RCU schema.

### **Key pointers**

- OBDX schema (and OBDX EXT 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 and all files/ sub-directories would be deleted.

---

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

---

## **Installation Status**

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

```
[devops@obdxwls OBDX_Installer]$
[devops@obdxwls OBDX_Installer]$ python runInstaller.py
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Roles...
Role created
Creating Grants...
Execution of clip_master_script.sql started
Execution of clip_master_script.sql completed
Execution of clip_constraints.sql started
Execution of clip_constraints.sql completed
Execution of clip_seeds_executable.sql started
Execution of clip_seeds_executable.sql completed
SUCCESSFULLY installed OBDX database
connection to Database successful.

Creating STB Schema ...
Running RCU
Schema creation in progress ...
STB Schema Creation Successful.
See logfile ./app/obdx_stb_rcu_1600
name="RepositoryAdapterFactories" overriddenBy ="RepositoryAdapterFactoriesOverride"

Calling WLST
Initializing WebLogic Scripting Tool (WLST) ...

Python scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt right away.

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

creating domain named OBDX172 .
OBDX172 created .
Admin Server created.
managed server OBDX1721 created.
node manager configured for OBDX1721
cluster InstallerTest1 created and configured.
Applying EM and wsm-pm template.
Jul 14, 2017 5:59:56 AM oracle.mds
WARNING: MDS-11019: The default CharSet US-ASCII is not a unicode character set. File names with non-ASCII characters may not operate as expected. Check locale settings.
EM and wsm-pm template added successfully.
Starting Node manager.
Waiting for NodeManager to start

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands
```

When the installation completes, the below message is displayed

```
Weblogic Configuration completed successfully.
<Jul 14, 2017 6:04:11 AM UTC> <Warning> <JNDI> <BEA-050001> <WLContext.close() was called in a different thread than the one in which it was created.>

Successfully configured weblogic.
[devops@obdxwls OBDX_Installer]$
```

## 5. stallation In 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 from the environment properties and installer.properties that you set for the session before beginning the installation. The installation program does not display any configuration options during the installation process.

### Steps for Silent-Mode Installation

- Set the environment variables

```
[devops@obdxw1s OBDX_Installer]$
[devops@obdxw1s OBDX_Installer]$ export FLAVOUR=UBS
[devops@obdxw1s OBDX_Installer]$ export MODE=New
[devops@obdxw1s OBDX_Installer]$ export DB_SYS_PASSWORD=welcome1
[devops@obdxw1s OBDX_Installer]$ export SCHEMA_PASS=welcome1
[devops@obdxw1s OBDX_Installer]$ export STBPassword=welcome1
[devops@obdxw1s OBDX_Installer]$ export DomainPassword=weblogic123
[devops@obdxw1s OBDX_Installer]$ export DB_SYS_PASSWORD_UBS=welcome1
[devops@obdxw1s OBDX_Installer]$ export UBS_PASS=password
[devops@obdxw1s OBDX_Installer]$ export SCHEMA_PASS_UBS=welcome1
[devops@obdxw1s OBDX_Installer]$
```

Below parameters should be set in environment variables

	Parameter	Description
<b>OBDX with UBS (Installation with Universal Banking Solution)</b>	FLAVOUR	Flavour for installation  ' <b>UBS</b> ' for OBDX with UBS installation (Installation with Universal Banking Solution)
	MODE	Mode of installation.  ' <b>New</b> ' in-case of a fresh installation of OBDX for the first run on server  ' <b>Clean</b> ' in-case of an existing OBDX installation that you want to overwrite OR in case of a previously failed installation
	DB_SYS_PASSWORD	Sys password of OBDX database (Existing)
	SCHEMA_PASS	Password for new schema on OBDX database
	STBPassword	Password for STB schema
	DomainPassword	Password for weblogic admin console
	DB_SYS_PASSWORD_UBS	Sys password of UBS database (Existing)
	UBS_PASS	Password of existing HOST UBS schema (Existing)
	SCHEMA_PASS_UBS	Password for new B1A1 schema on UBS database
	FLAVOUR	Flavour for installation  ' <b>OBP</b> ' for OBDX with OBP installation

<b>OBDX with OBP (Installation with Oracle Banking Platform) / FLL (Installation with Oracle Financial Services Lending and Leasing) / OBDX (Installation with Third Party System)</b>		(Installation with Oracle Banking Platform)  ' <b>OBDX</b> ' for standalone OBDX installation (Installation with Third Party System)  ' <b>FLL</b> ' for OBDX with FLL installation (Installation with Oracle Financial Services Lending and Leasing)
	Mode	Mode of installation.  ' <b>New</b> ' in-case of a fresh installation of OBDX for the first run on server  ' <b>Clean</b> ' in-case of an existing OBDX installation that you want to overwrite OR in case of a previously failed installation
	DB_SYS_PASSWORD	Sys password of OBDX database (Existing)
	SCHEMA_PASS	Password for new schema on OBDX database
	STBPassword	Password for STB schema
DomainPassword	Password for weblogic admin console	

- Run the runInstaller.py file with '—silent ' argument

```
[root@65fe613aa078 OBDX_Installer]#  
[root@65fe613aa078 OBDX_Installer]# python runInstaller.py --silent
```

## Installation Status

After all passwords are entered, the status is displayed on the terminal to indicate the progress of the installation.

```
[devops@obdxwls OBX_Installer]$
[devops@obdxwls OBX_Installer]$ python runInstaller.py
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Roles...
Role created
Creating Grants...
Execution of clip_master_script.sql started
Execution of clip_master_script.sql completed
Execution of clip_constraints.sql started
Execution of clip_constraints.sql completed
Execution of clip_seeds_executable.sql started
Execution of clip_seeds_executable.sql completed
SUCCESSFULLY installed OBX database
connection to Database successful.

Creating STB Schema ...
Running RCU
Schema creation in progress ...
STB Schema Creation Successful.
See logfile ./app/obdx_stb_rcu_1600
name="RepositoryAdapterFactories" overriddenBy ="RepositoryAdapterFactoriesOverride"

Calling WLST
Initializing WebLogic Scripting Tool (WLST) ...

Python scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt right away.
Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

creating domain named OBDX172 .
OBDX172 created .
Admin Server created.
managed server OBDX1721 created.
node manager configured for OBDX1721
cluster InstallerTest1 created and configured.
Applying EM and wsm-pm template.
Jul 14, 2017 5:18:56 AM oracle.wls
WARNING: MDS-11019: The default CharSet US-ASCII is not a unicode character set. File names with non-ASCII characters may not operate as expected. Check locale settings.
EM and wsm-pm template added successfully.
Starting Node manager.
Waiting for NodeManager to start

Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands
```

When the installation completes, the below message is displayed

```
Weblogic Configuration completed successfully.
<Jul 14, 2017 6:04:11 AM UTC> <Warning> <JNDI> <BEA-050001> <WLContext.close() was called in a different thread than the one in which it was created.>

Successfully configured weblogic.
[devops@obdxwls OBX_Installer]$
```

## 6. Installer Verification

Each execution creates a new directory as <DDMonthHHMM> under OBDX\_Installer/ExecInstances directory where output logs as describe are stored.

Log Description	PATH
Summarized Installer Activity Log	OBDX_Installer/ExecInstances/<DDMonthHHMM>/logs/obdx_installer.log
Summarized Database Logs	OBDX_Installer/ExecInstances/<DDMonthHHMM>/logs/db/DB_installation.log
Detailed OBDX DB Logs per SQL file	OBDX_Installer/ExecInstances/<DDMonthHHMM>/logs/db/OBDX/*
Detailed UBS DB Logs per SQL file	OBDX_Installer/ExecInstances/<DDMonthHHMM>/logs/db/UBS/*
RCU Logs	OBDX_Installer/ExecInstances/<DDMonthHHMM>/logs/app/obdx_stb_rcu_1600.log
Weblogic Configuration Logs	OBDX_Installer/ExecInstances/<DDMonthHHMM>/logs/app/obdx_wls_post.log

Check all the logs for any errors.

# 7. Installer Scope

OBDX Installer currently covers below activities:

**Flavor: OBDX (Installation with Third Party System)**

Flavor	Activity	Detailed Activity List	New Installation	Clean and Install
OBDX (Installation with Third Party System)	OBDX DB Setup			
		Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and create)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
	Weblogic Setup and Configuration	RCU schema and Create Domain	√	√ (drop and create)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√
		Configure JDBC	√	√
		Configure 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 and configure Preferences.xml (set AdapterFactories)	√	√ (Delete old and copy new from installer zip)

**Flavor: OBDX with UBS (Installation with Universal Banking Solution)**

Flavor	Activity	Detailed Activity List	New Installation	Clean and Install
OBDX with UBS (Installation with Universal Banking Solution)	OBDX DB Setup			
		Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and create)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
	OBDX EXTSYSTEM DB Setup	Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and create)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		DB Link pointing to OBDX Schema	√	√
		Compile Schema	√	√
	Weblogic Setup and Configuration	RCU schema and Create Domain	√	√ (drop and create)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√
		Configure JDBC	√	√
		Configure JMS servers, Persistent stores and JMS Modules	√	√
		Application Deployment	√	√
		JTA	√	√
		Enable Production Mode	√	√

Flavor	Activity	Detailed Activity List	New Installation	Clean and Install
		Start AdminServer and NodeManager	√	√
	OBDX Configuration	Copy Config files into OBDX Installation Home and configure Preferences.xml (set AdapterFactories)	√	√ (Delete old and copy new from installer zip)

**Flavor: OBDX with OBP (Installation with Oracle Banking Platform)**

Flavor	Activity	Detailed Activity List	New Installation	Clean and Install
OBDX with OBP (Installation with Oracle Banking Platform)	OBDX DB Setup			
		Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and create)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
	Weblogic Setup and Configuration	RCU schema and Create Domain	√	√ (drop and create)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√
		Configure JDBC	√	√
		Configure JMS servers, Persistent stores and JMS Modules	√	√
		Application Deployment	√	√
		JTA	√	√
		Enable Production Mode	√	√
		Start AdminServer and	√	√



Flavor	Activity	Detailed Activity List	New Installation	Clean and Install
		NodeManager		
	OBDX Configuration	Copy Config files into OBDX Installation Home and configure Preferences.xml (set AdapterFactories)	√	√ (Delete old and copy new from installer zip)

**Flavor: OBDX with FLL (Installation with Oracle Financial Services Lending and Leasing)**

Flavor	Activity	Detailed Activity List	New Installation	Clean and Install
OBDX with FLL (Installation with Oracle Financial Services Lending and Leasing)	OBDX DB Setup			
		Create Tablespace	√	NA
		Create Schema and Role	√	√ (drop and create)
		Grants	√	√
		Load DB object (DDL's and DML's)	√	√
		Compile Schema	√	√
	Weblogic Setup and Configuration	RCU Schema and Create Domain	√	√ (drop and create)
		Create and Configure AdminServer, Machine, Managed Server and Cluster	√	√
		Configure NodeManager	√	√
		Configure JDBC	√	√
		Configure JMS servers, Persistent stores and JMS Modules	√	√
		Application Deployment	√	√
		JTA	√	√
		Enable Production Mode	√	√
		Start AdminServer and	√	√

Flavor	Activity	Detailed Activity List	New Installation	Clean and Install
		NodeManager		
	OBDX Configuration	Copy Config files into OBDX Installation Home and configure Preferences.xml (set AdapterFactories)	√	√ (Delete old and copy new from installer zip)

## 8. Post Installation Steps

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

### Apply JRF Template

To apply JRF template follow below steps.

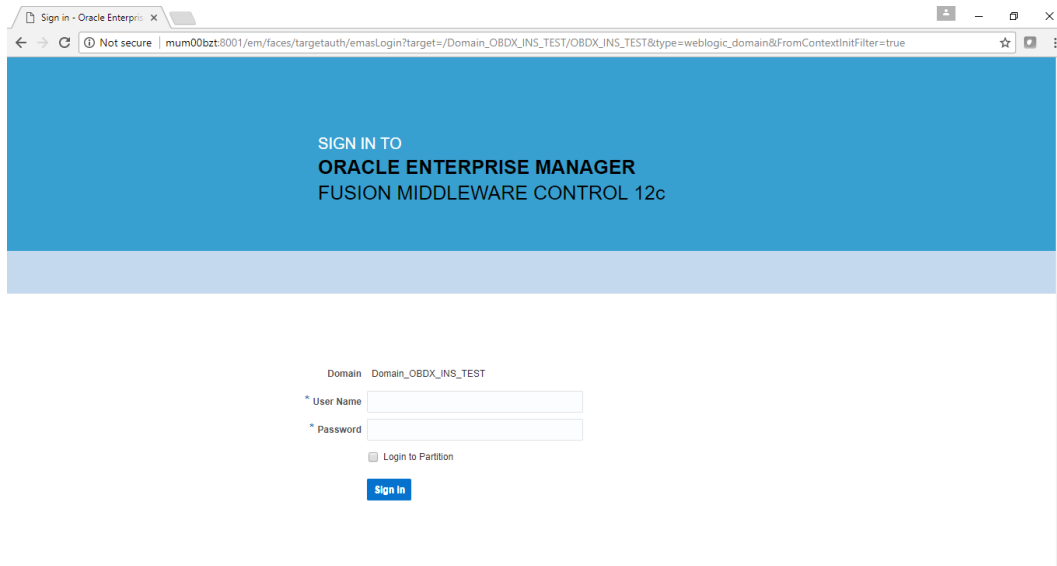
- To do this, ensure that the Admin Server is running. Login to the EM (Enterprise Manager) Console using the following URL:

[http://<hostname>:<admin\\_port>/em](http://<hostname>:<admin_port>/em)

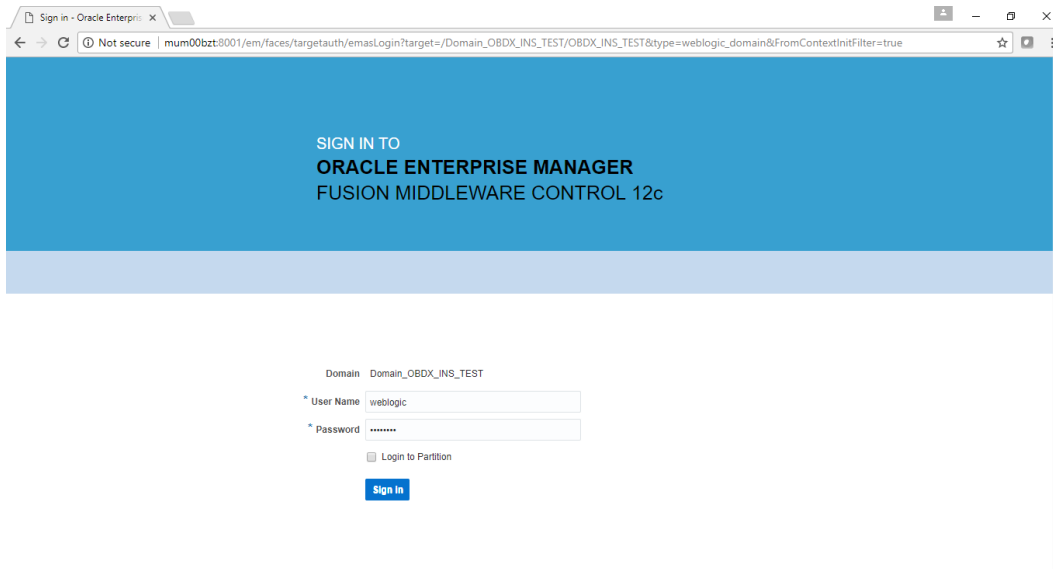
---

**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”.

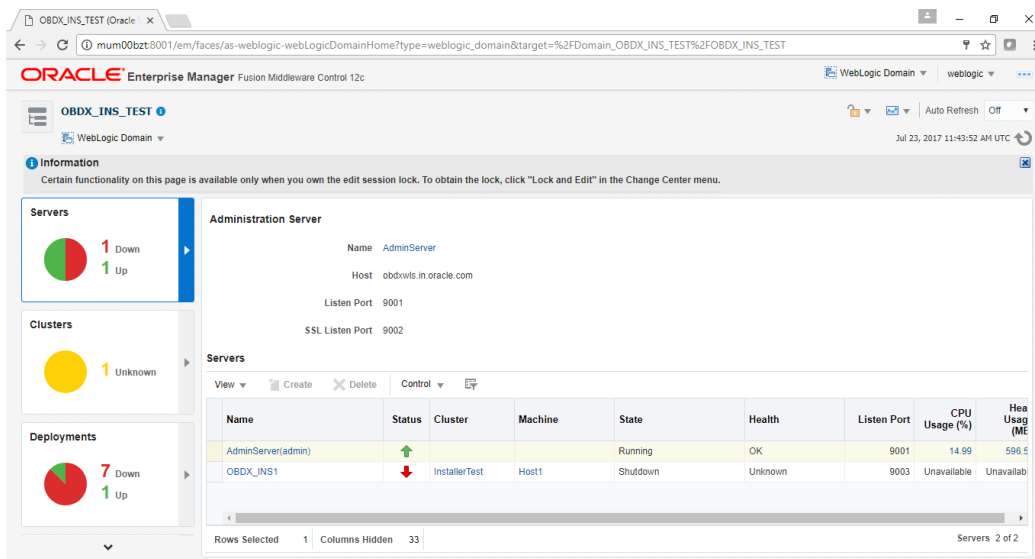
---



- 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)

**Servers**

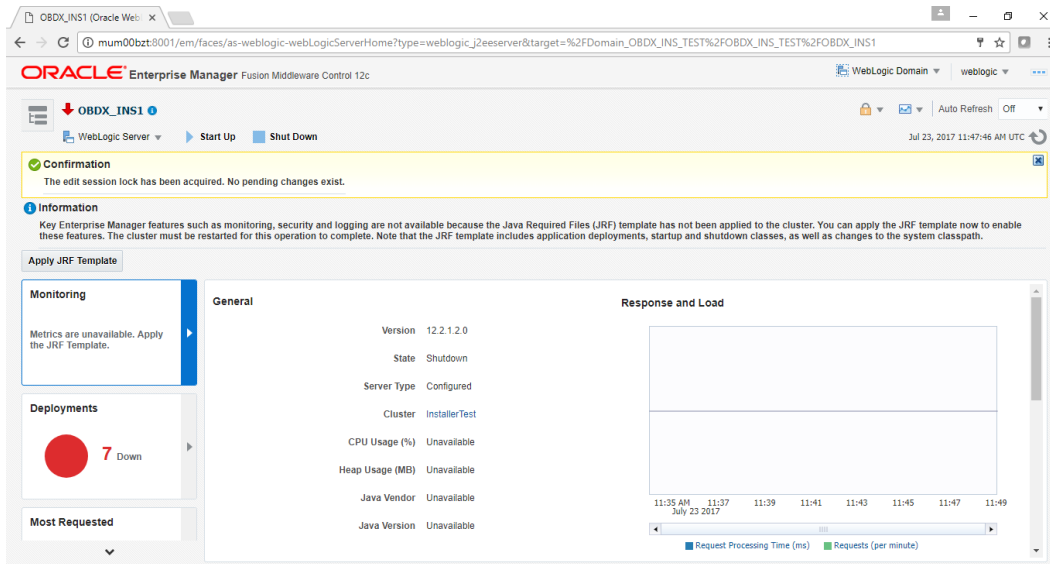
View Create Delete Control

Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	↑			Running	OK	9001
OBDX_INS1	↓	InstallerTest	Host1	Shutdown	Unknown	9003

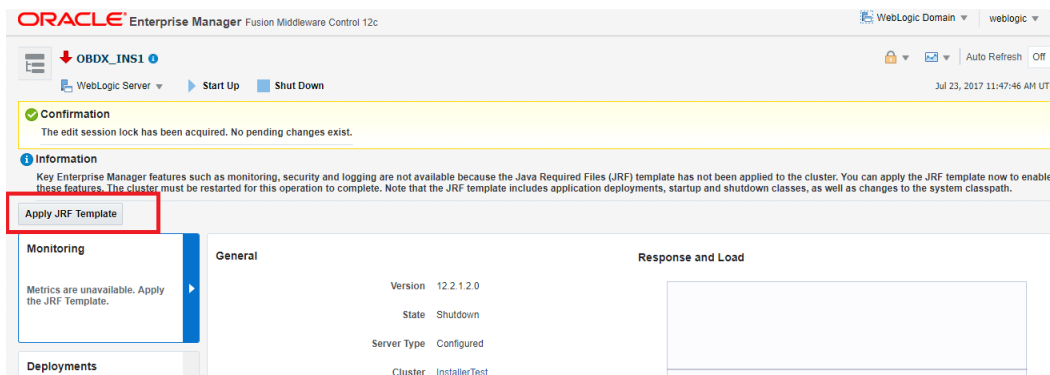
**Note : Depending on installer.properties, Managed server will differ from above screenshot.**

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

You will see below screen stating the edit session confirmation



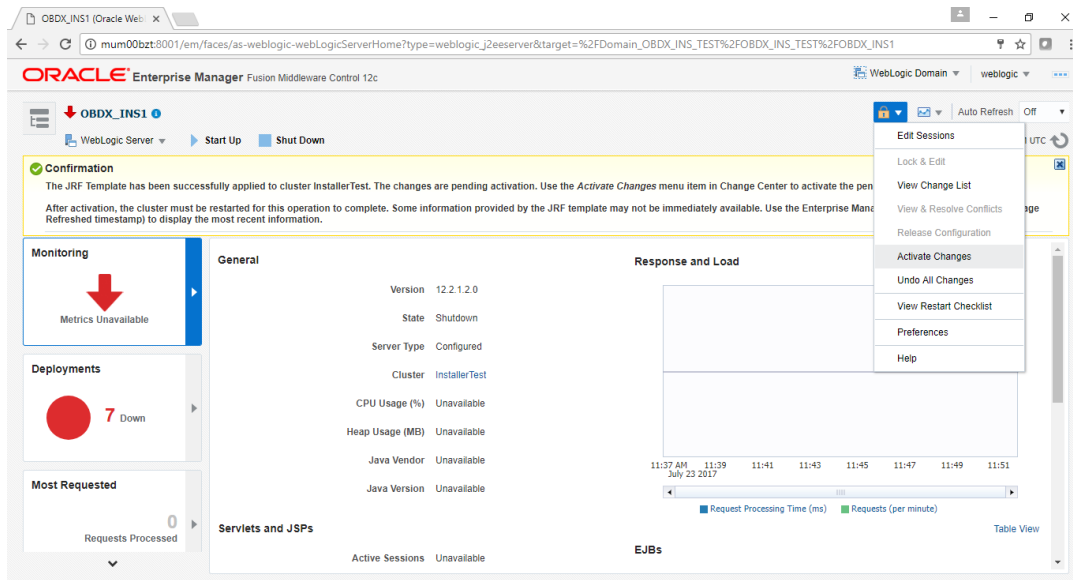
- Click on “Apply JRF Template” option (as shown in screenshot).



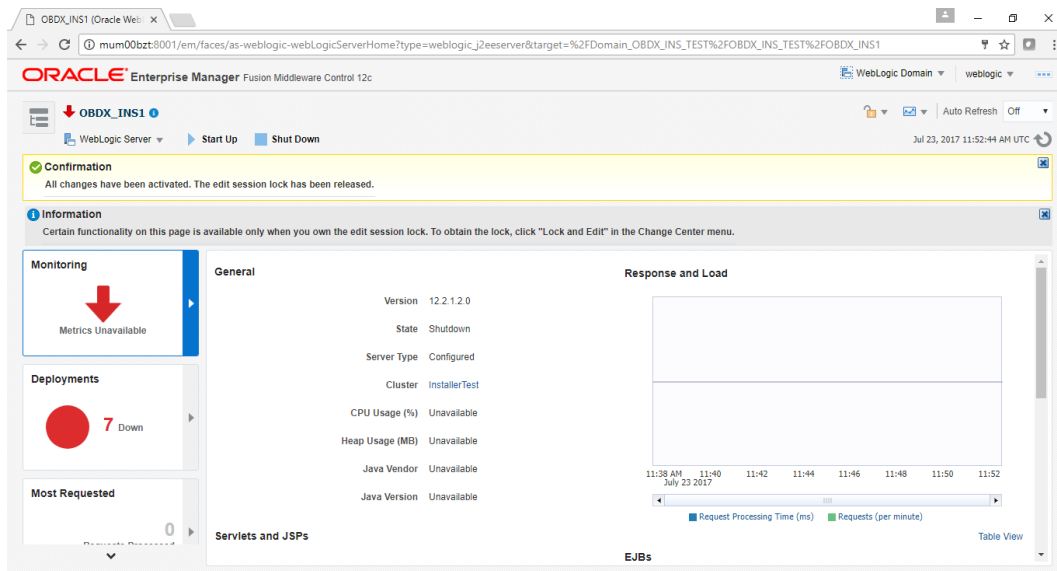
Is JRF successfully applied, you will get below Confirmation.



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



Post activation you will receive below Confirmation.



### **OBDX Application logging**

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

```

@obdxwls:~/Oracle/Middleware/Oracle_Home/user_projects/domains/obdx_domain/config/fmwconfig/servers/obdx_server1
[ obdx_server1]$ pwd
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/obdx_domain/config/fmwconfig/servers/obdx_server1
[ obdx_server1]$ ls -ltr
total 40
drwxr-x--- 2 devops devops 4096 May 10 14:06 mbeans
-rw-r----- 1 devops devops 2286 May 10 14:06 dms_config.xml
drwxr-x--- 2 devops devops 4096 May 10 14:06 diagnostics-registration
-rw-r----- 1 devops devops 1796 May 10 14:06 dfw_config.xml
drwxr-x--- 2 devops devops 4096 May 10 14:06 dfw
-rw-r----- 1 devops devops 11250 May 10 14:06 logging.xml
drwxr-x--- 1 devops devops 4096 May 12 10:42 applications
-rw-r----- 1 devops devops 109 Jul 13 07:03 loggers.exclude
[ obdx_server1]$

```

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

```

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

```

Below is a sample implementation for log\_handlers file.

```

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

```



```

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

```

Add loggers under <loggers> tag using below template:

```

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

```

---

Note: Replace the #BANKCODE# with bank code.

---

Below is a sample implementation for loggers file

```

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

```

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

### Eclipselink logging

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

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

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

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

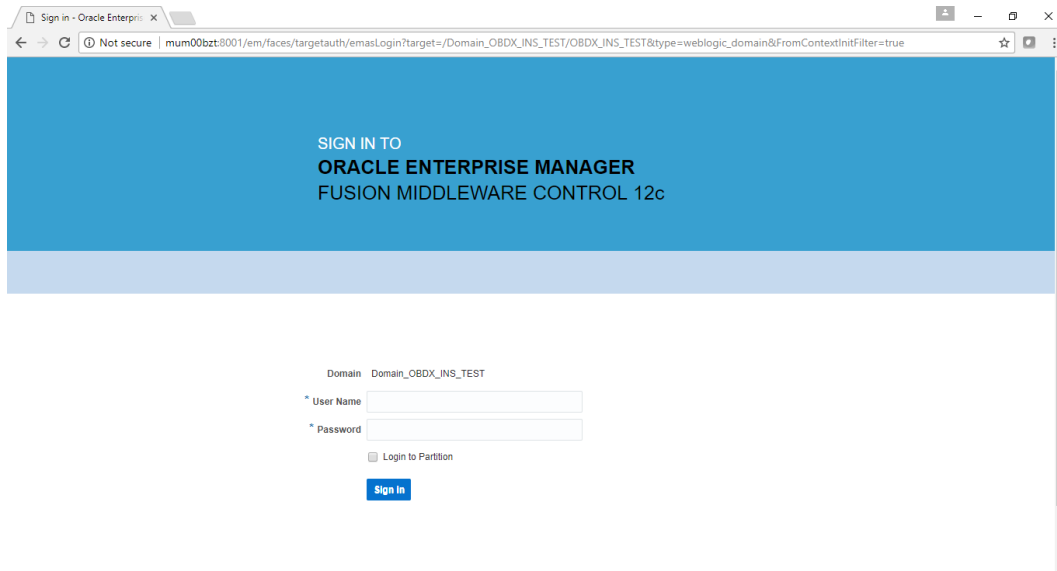
### Change logging level during runtime

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

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

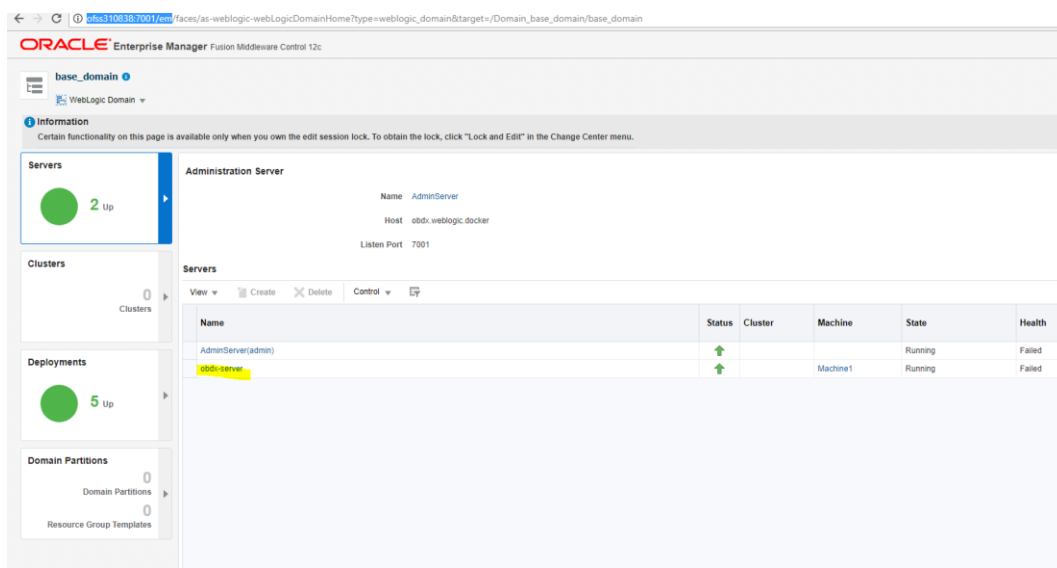
[http://<hostname>:<admin\\_port>/em](http://<hostname>:<admin_port>/em)

**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”.

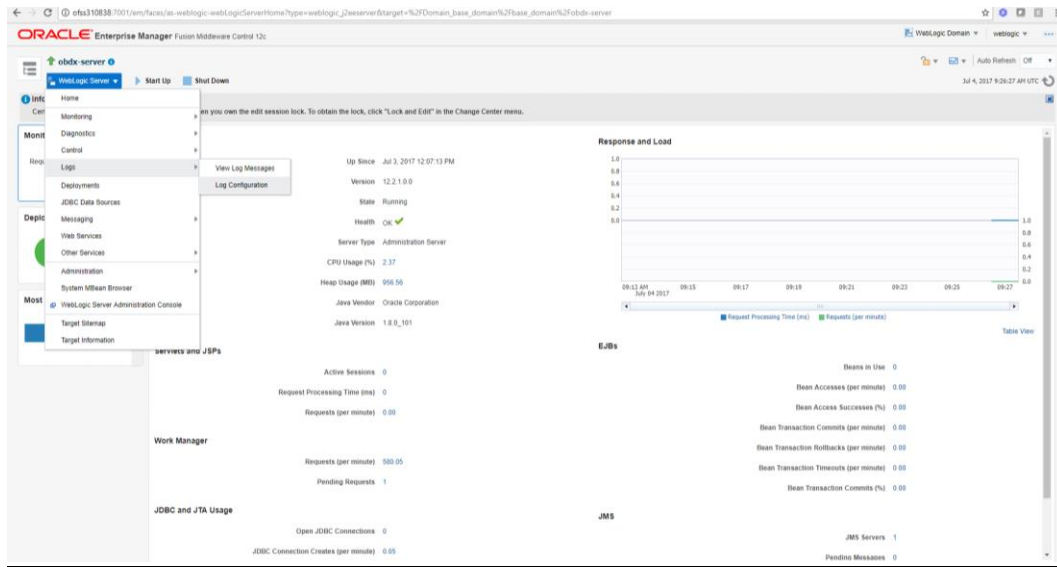


- Click on obdx-server

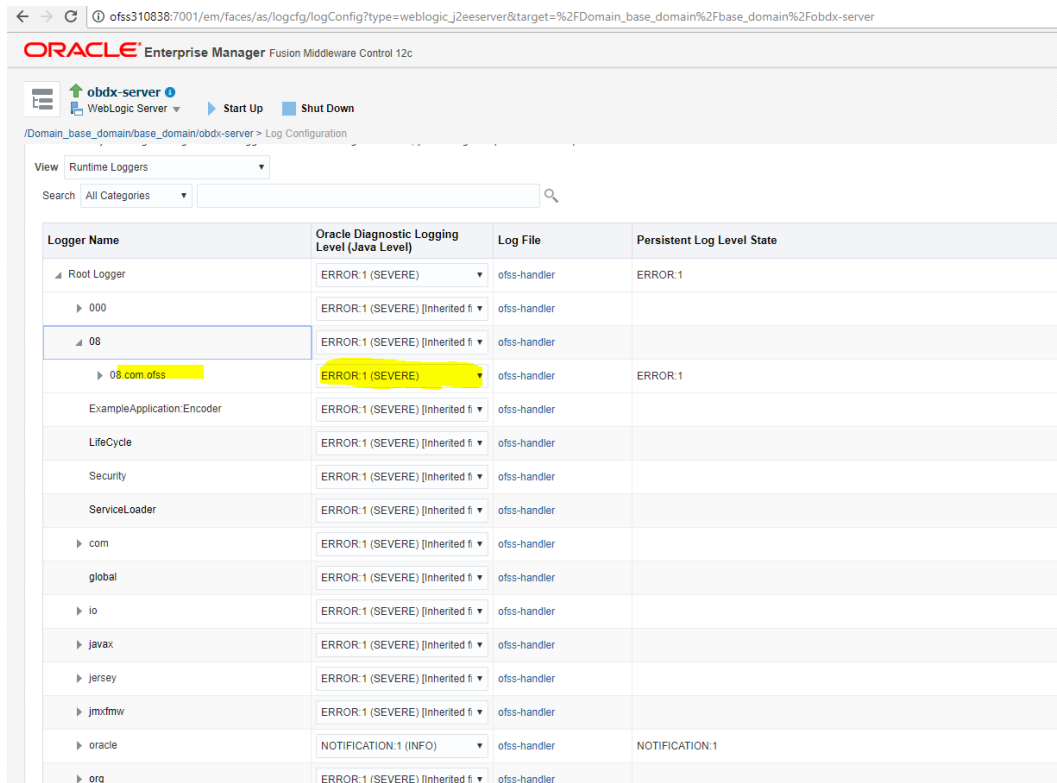
**Note :** Depending on installer.properties, Managed server will differ from above screenshot.



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



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



---

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

---

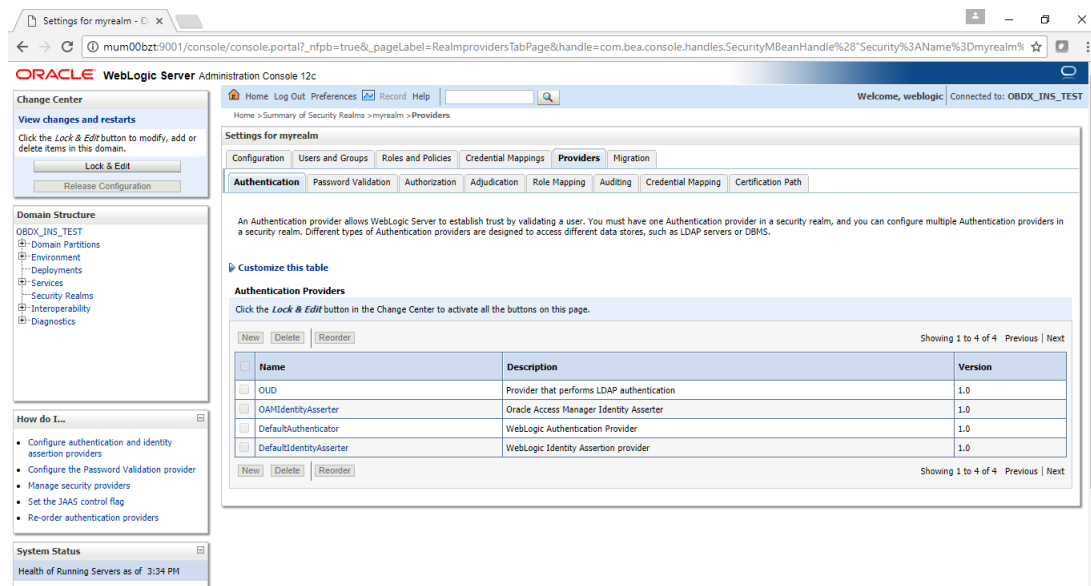
## Security Realms

Configure your own 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***

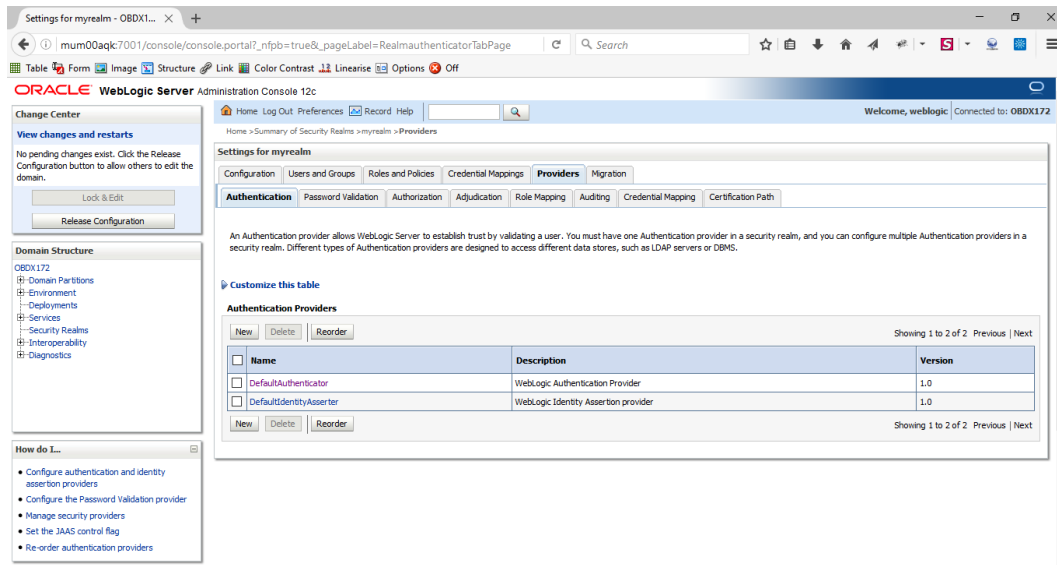
- Now, go to Security Realms > myrealm > Providers



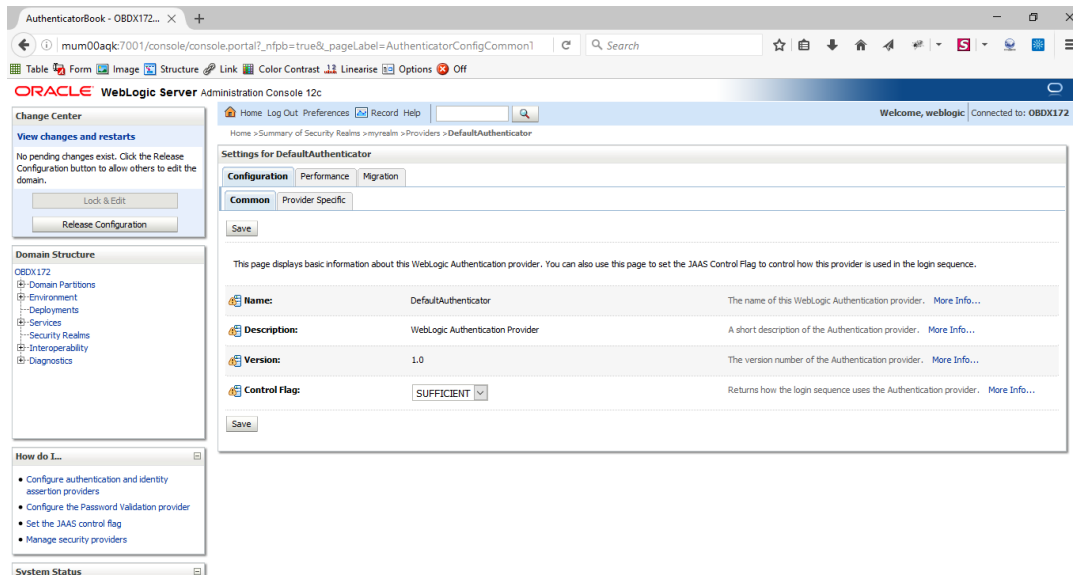
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and includes a navigation menu with tabs for Configuration, Users and Groups, Roles and Policies, Credential Mappings, Providers, and Migration. The 'Providers' tab is selected, and the 'Authentication' sub-tab is active. A table titled 'Authentication Providers' is displayed, showing the following data:

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

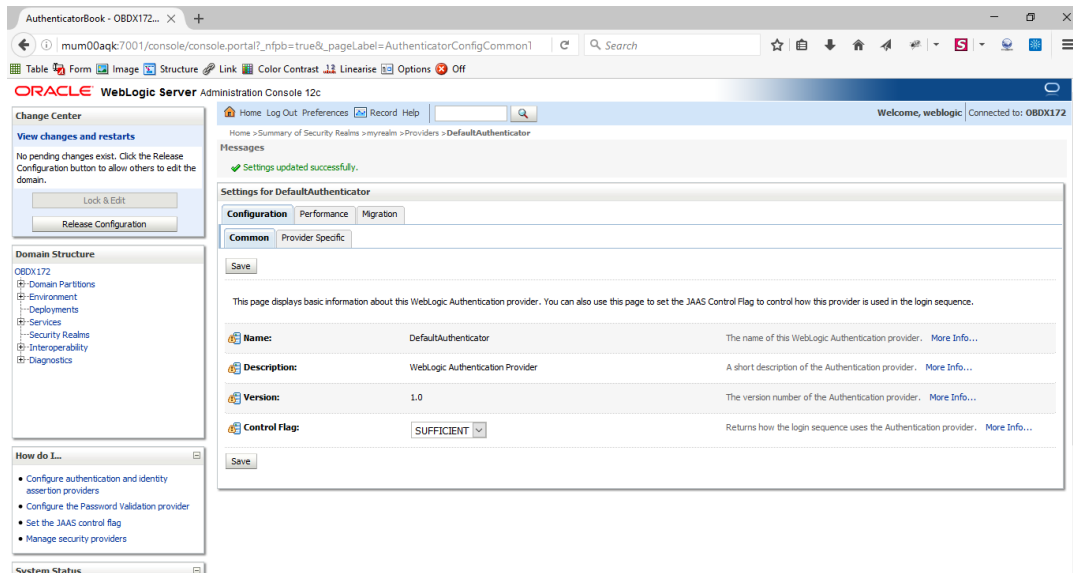
- Now click on “**Lock & Edit**” in order to edit the details.



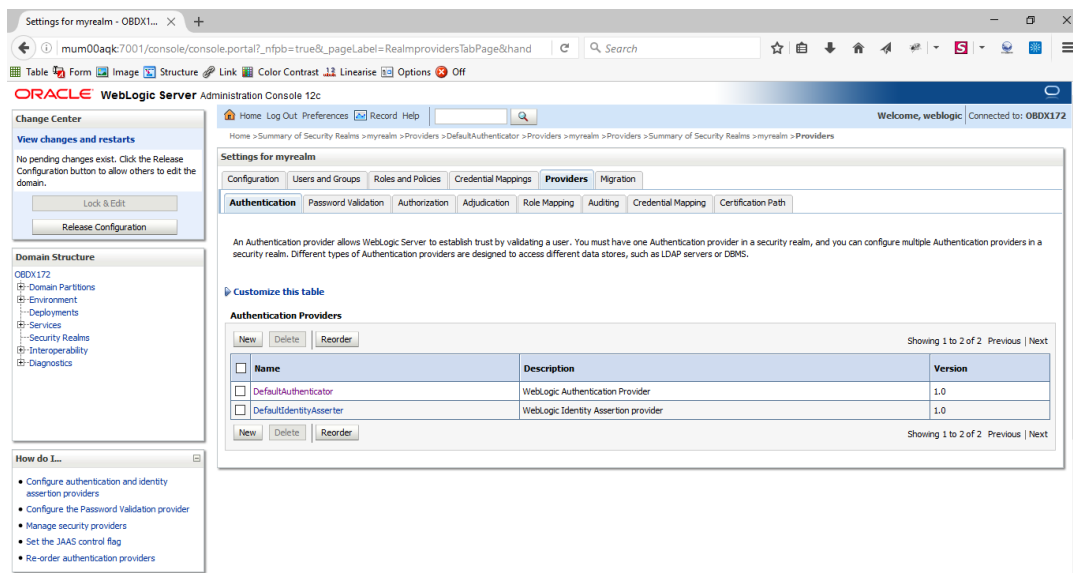
- Click on **'DefaultAuthenticator'** provider and change the Control Flag to SUFFICIENT



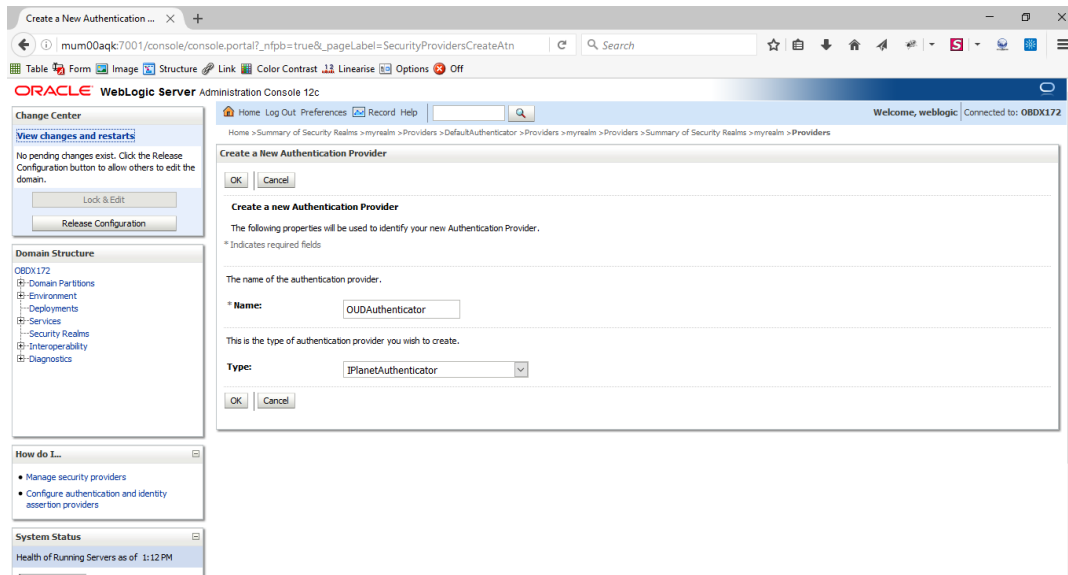
- Click on Save button to save the changes



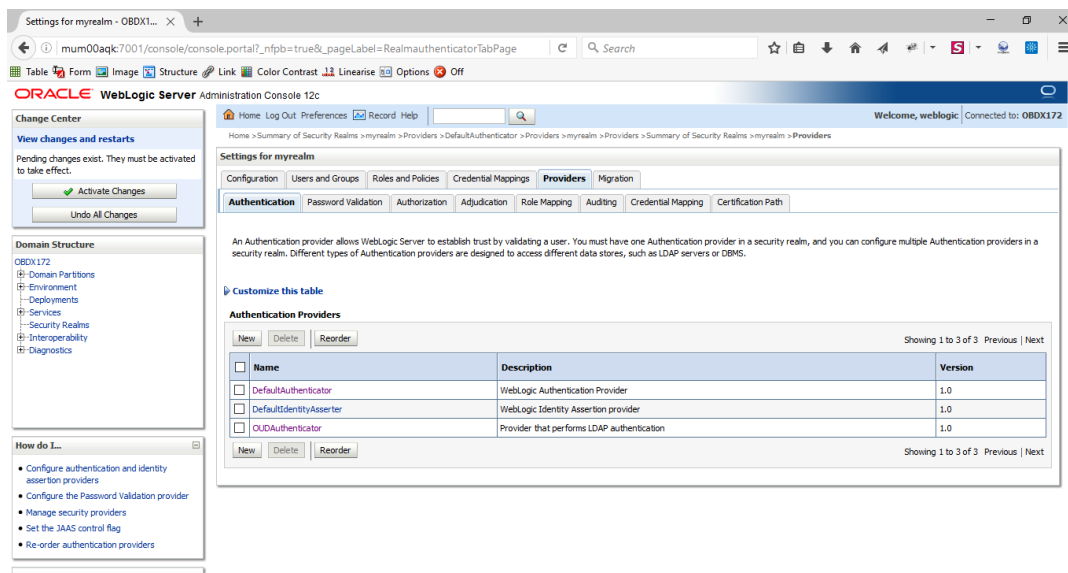
- Delete the Trust Service Identity Asserter
- Navigate Back to Security Realms > myrealm > Providers



- Now, click on New and enter the below details and click Save.  
 Name : OUDAuthenticator  
 Type : IPlanetAuthenticator

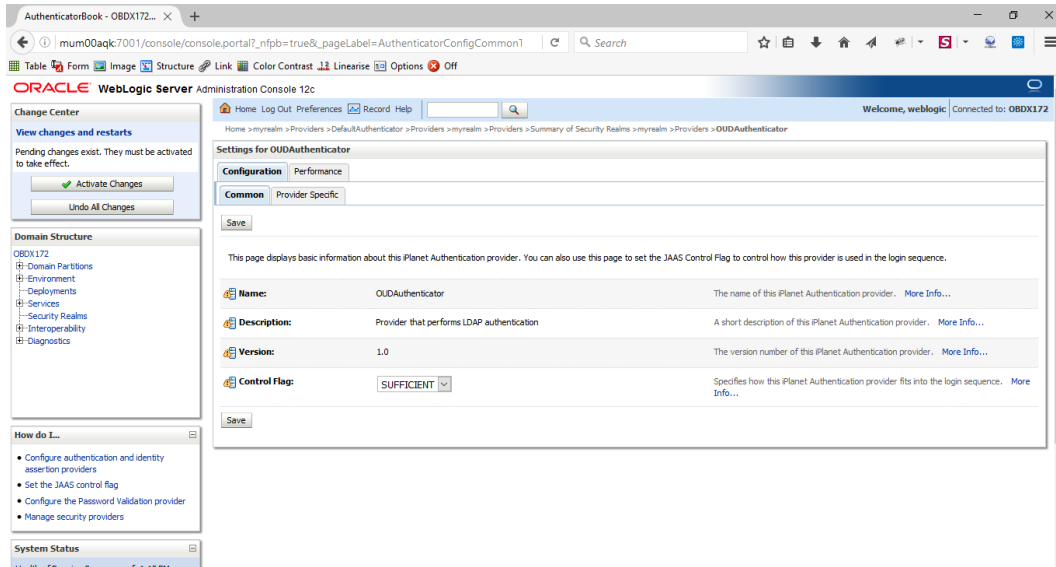


- Click on OK Button.

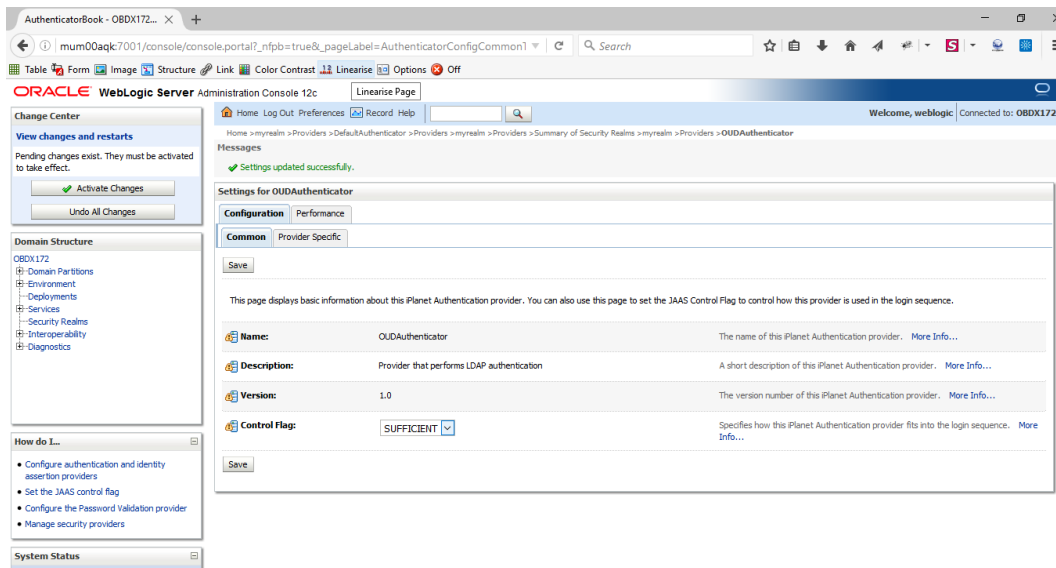


Now Click on OUDAuthenticator and select Control Flag as **“SUFFICIENT”**





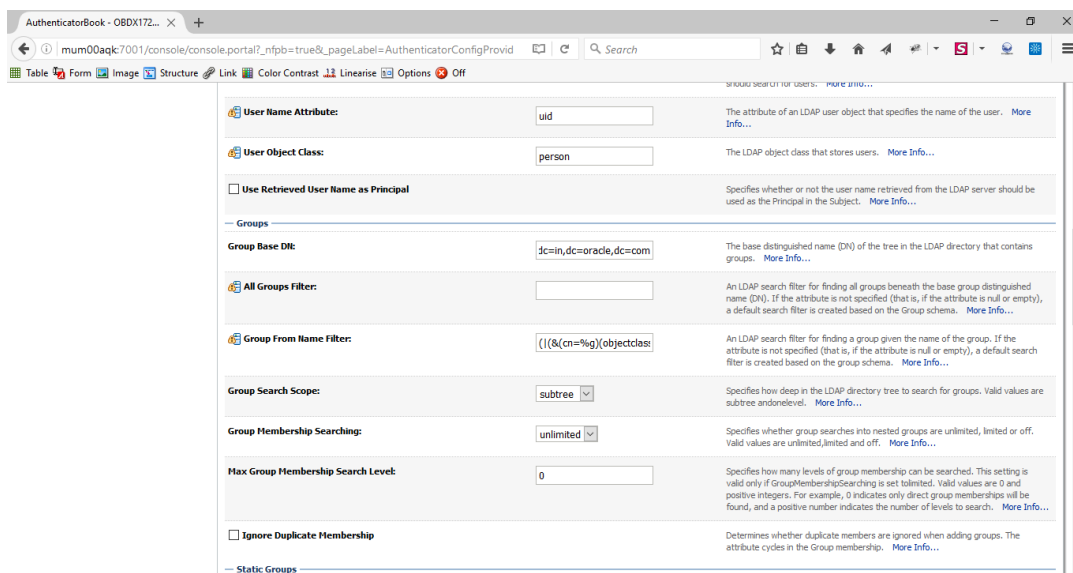
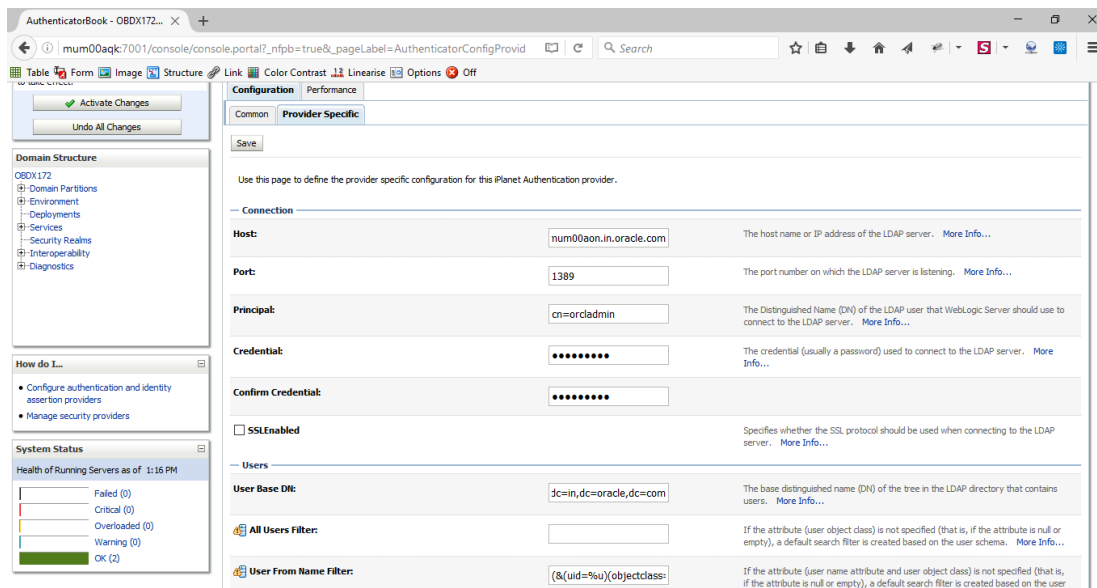
- Click on Save Button.



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

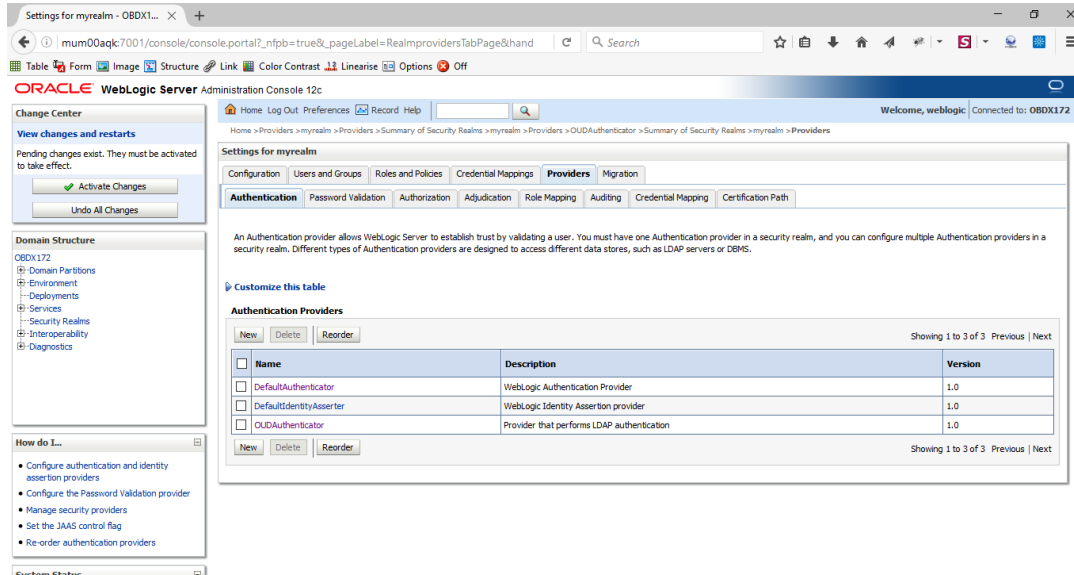
Property	Value
Host	This is the LDAP Server (OUD) Hostname
Port	This is the LDAP Server (OUD) Port. E.g. 1389

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



Note: If the provider in use is for OpenLdap select the checkbox against “Use Retrieved User Name as Principal”

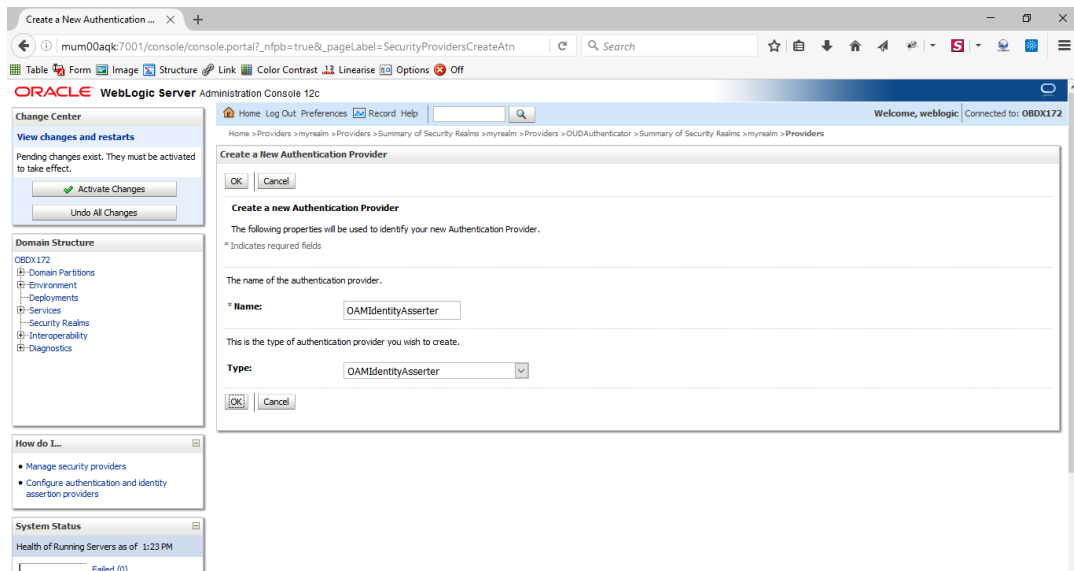
- Click on Save to update the changes.
- Navigate Back to Security Realms > myrealm > Providers



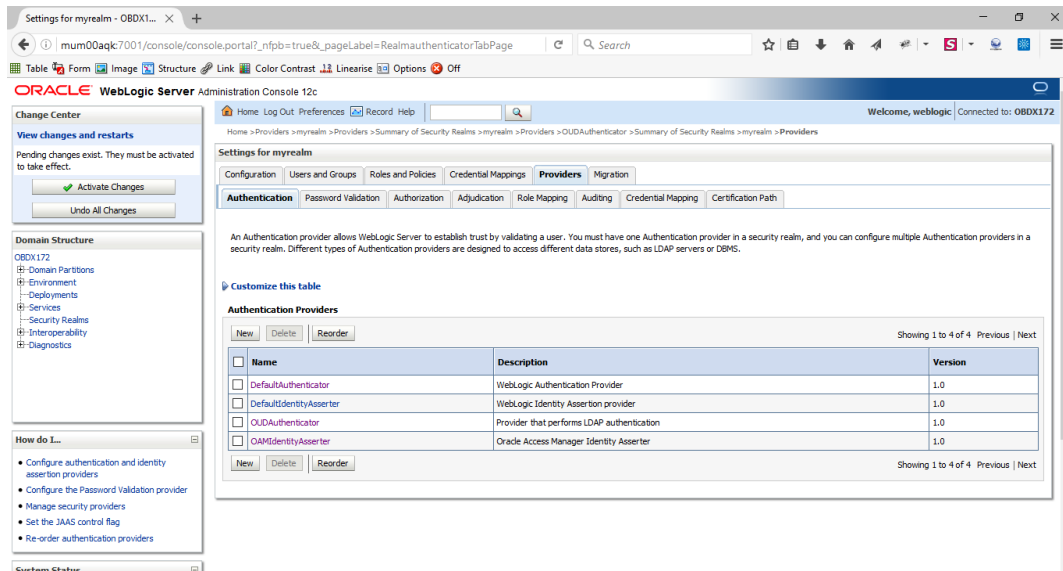
- Now, click on New and enter the below details and click Save.

Name : OAMIdentityAsserter

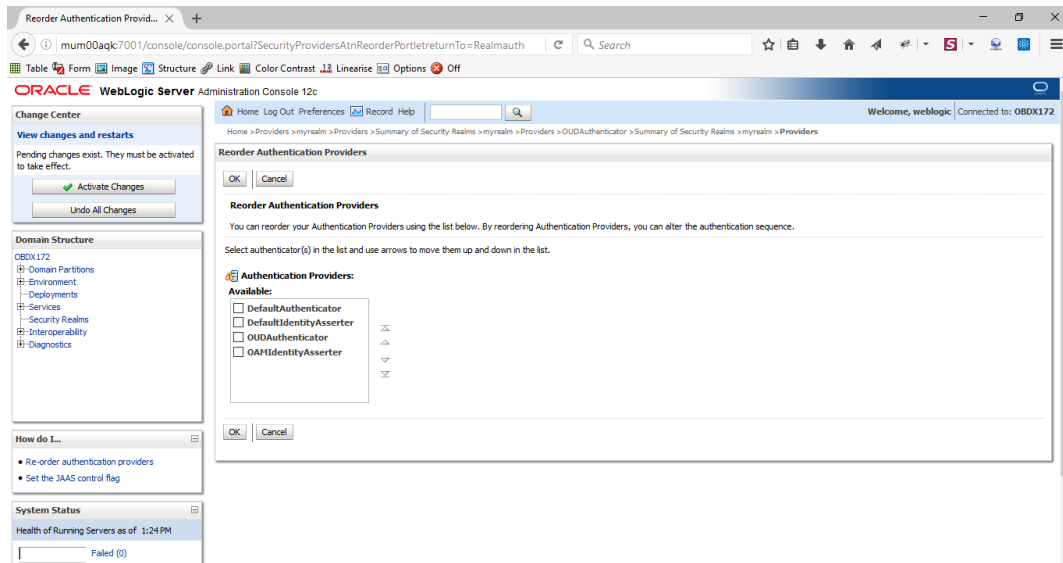
Type : OAMIdentityAsserter



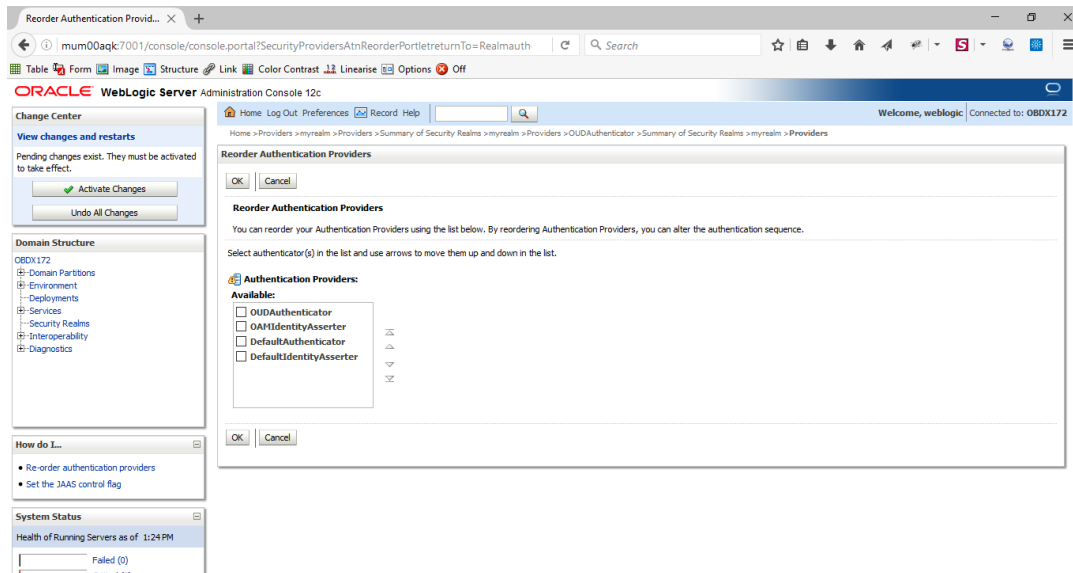
- Click on OK Button.



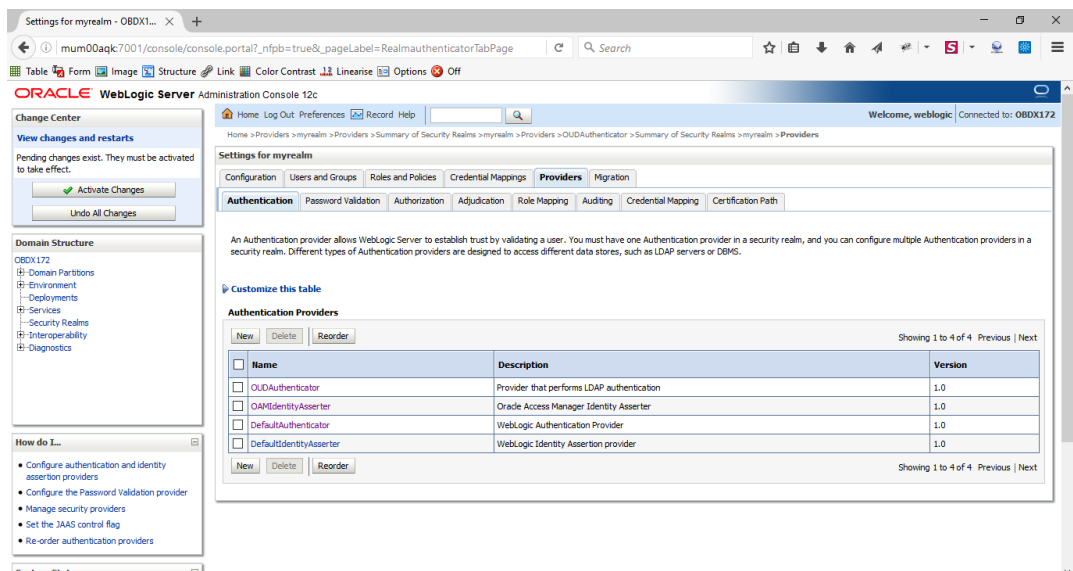
- Click on Reorder Button.



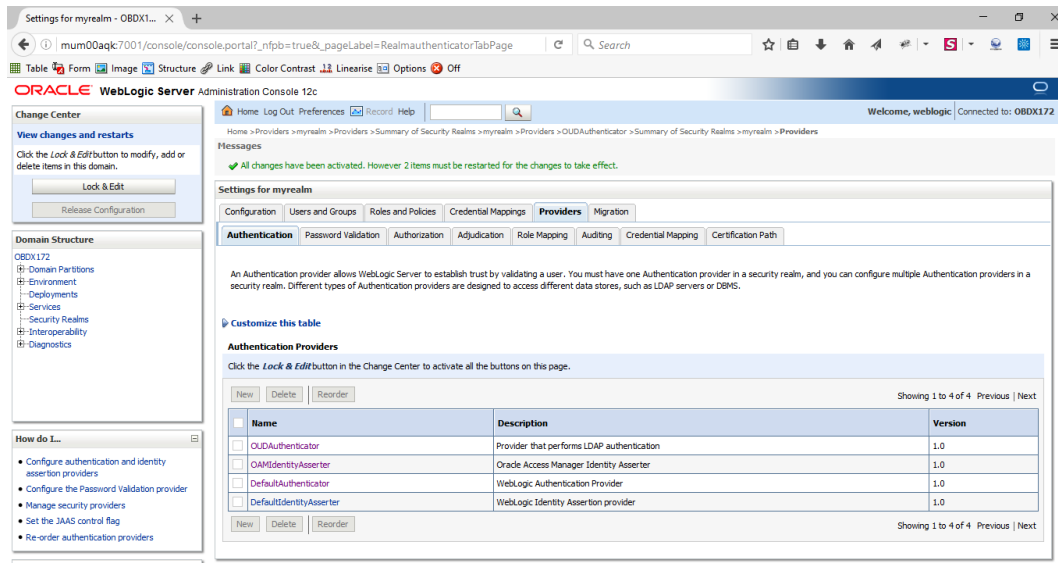
- Reorder the providers so that LDAP Provider (OUDAuthenticator) gets highest priority followed by OAMIdentityAsserter, DefaultAuthenticator, DefaultIdentityAsserter.



- Click on OK Button.



- Click on Activate Changes to apply the changes.

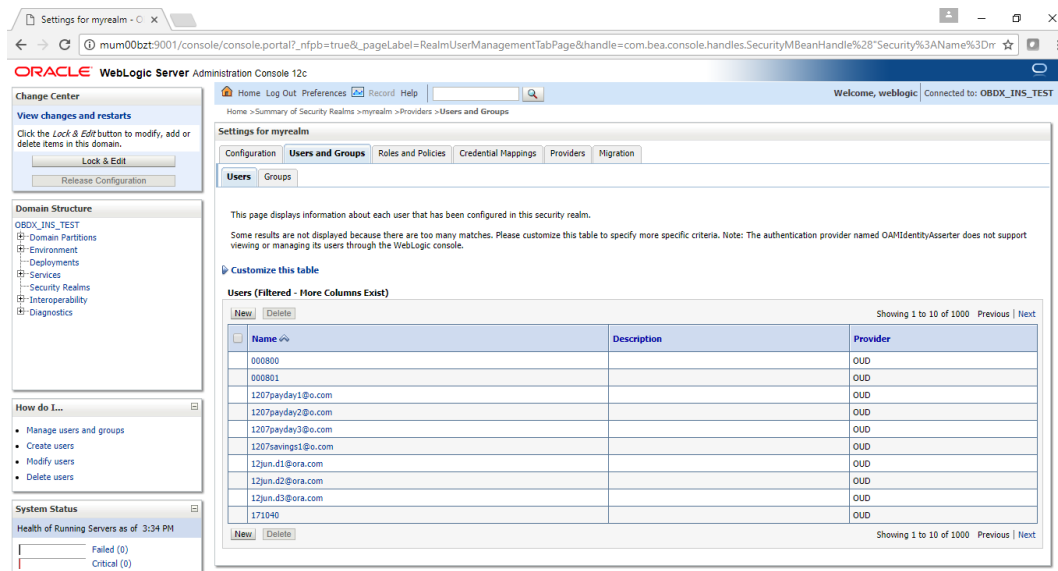


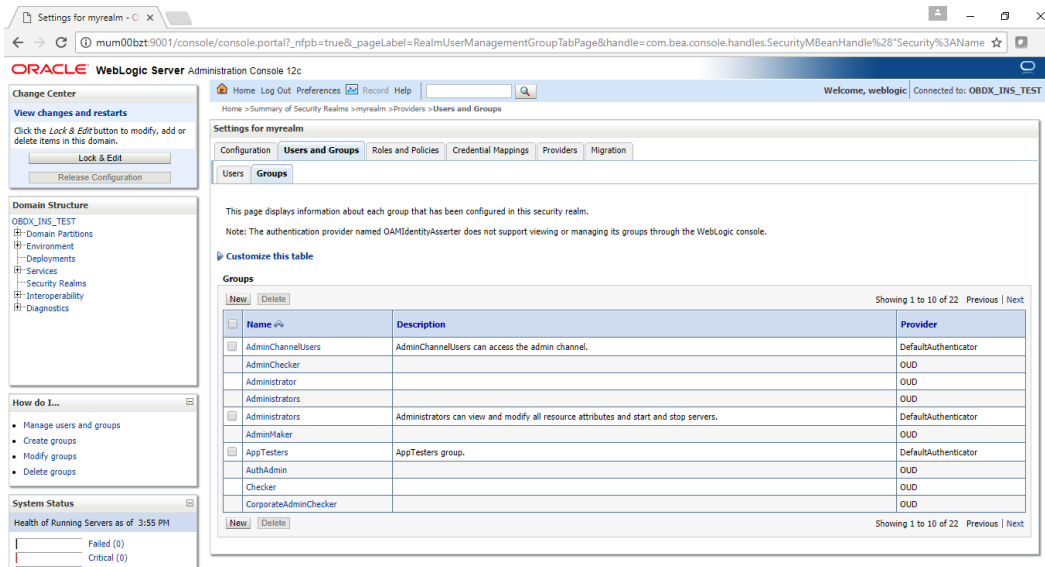
- Now Shutdown the admin server.
- Now, again start the Admin Server using the command,  
`<OBDX_domain>/bin/startWeblogic.sh`

### Verification

Post Admin Server 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.



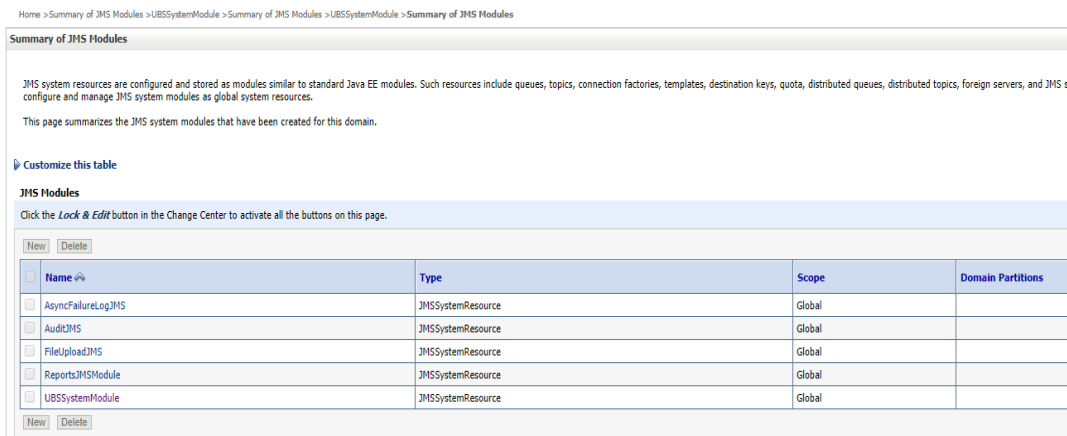


### **OBDX with UBS (Installation with Universal Banking Solution)**

If during installer execution OBDX with UBS (Installation with Universal Banking Solution) 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)



Home > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > UBSSystemModule

**Settings for UBSSystemModule**

Configuration | Subdeployments | Targets | Security | Notes

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

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

**Scope:** Global Specifies if the JMS system module is accessible within the domain, a p

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

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

[Customize this table](#)

**Summary of Resources**

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

New Delete

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

New Delete

### Click on UBSForeignServer

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

**Settings for UBSForeignServer**

Configuration | Subdeployment | Notes

General | Destinations | Connection Factories

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

Save

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

**Name:** UBSForeignServer The name of this for

**JNDI Initial Context Factory:** weblogic.jndi.WLInitialConte: The name of the cla the vendor that are

**JNDI Connection URL:** t3://10.184.135.59:7860/ The URL that WebLo being used. For Web Info...

**JNDI Properties Credential:** ..... Any Credentials that the constructor for t the Properties field r

**Confirm JNDI Properties Credential:** .....

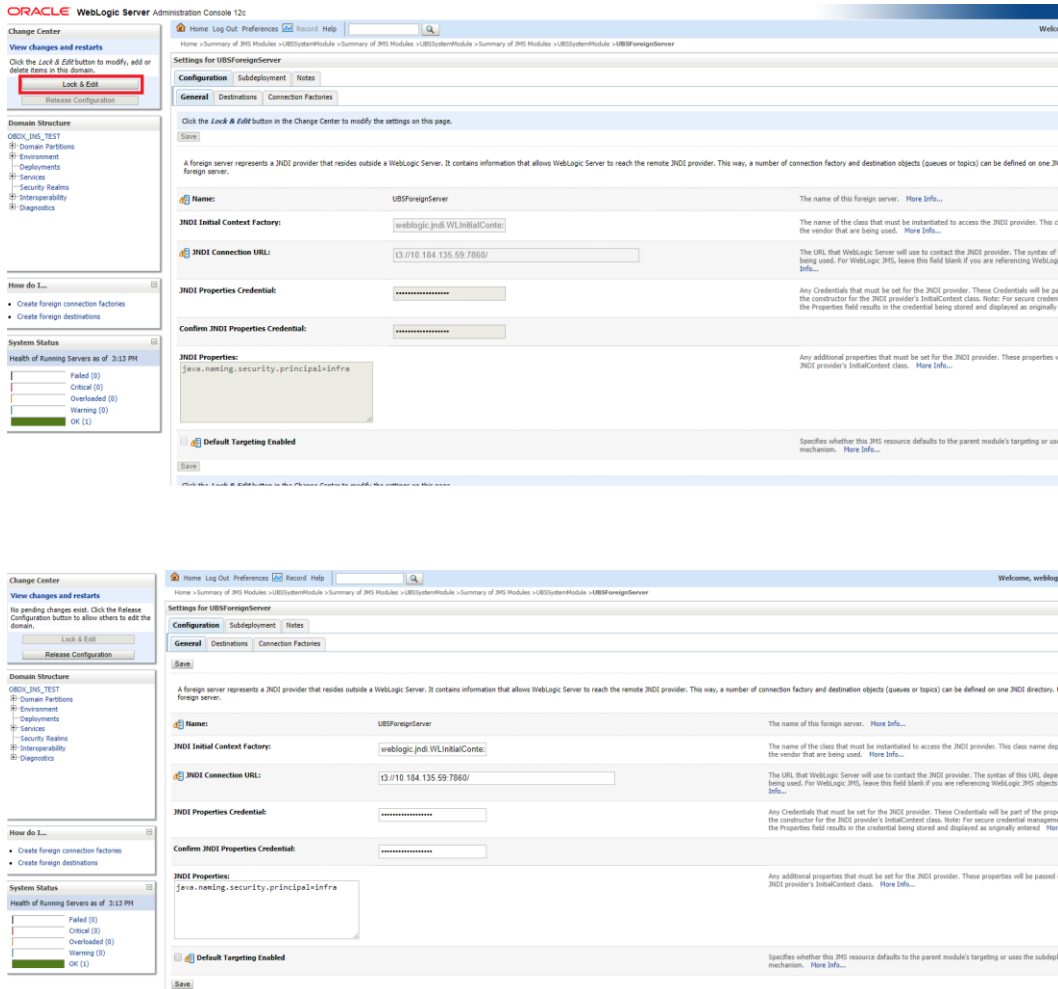
**JNDI Properties:** java.naming.security.principal=infra Any additional propre JNDI provider's Initi

**Default Targeting Enabled** Specifies whether th mechanism. [More](#)

Save

- Click on Lock & Edit





Set below configurations with:

**JNDI Connection URL** – UBS HOST Weblogic t3 URL for 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=<username>”, where username is the login user of UBS Weblogic Admin Console (user which created the primary local queues for UBS).

- Click on Save

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Save

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

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

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte: The name of the class that must be instantiated to access the JNDI provider. This is the vendor that are being used. [More Info...](#)

JNDI Connection URL: t3://10.184.135.59:7860/ The URL that WebLogic Server will use to contact the JNDI provider. The syntax of it being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic Info...

JNDI Properties Credential: ..... Any Credentials that must be set for the JNDI provider. These Credentials will be part the constructor for the JNDI provider's InitialContext class. Note: For secure credenti the Properties field results in the credential being stored and displayed as originally e

Confirm JNDI Properties Credential: ..... Any Credentials that must be set for the JNDI provider. These Credentials will be part the constructor for the JNDI provider's InitialContext class. Note: For secure credenti the Properties field results in the credential being stored and displayed as originally e

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

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

Save

Home > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > UBSSystemModule > Summary of JMS Modules > UBSForeignServer > Configuration > NOTIFY\_DEST\_QUEUE\_FQDN > UBSForeignServer

Messages

Settings updated successfully.

Settings for UBSForeignServer

Configuration Subdeployment Notes

General Destinations Connection Factories

Save

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

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

JNDI Initial Context Factory: weblogic.jndi.WLInitialConte: The name of the class that must be instantiated to access the JNDI provider. This is the vendor that are being used. [More Info...](#)

JNDI Connection URL: t3://10.184.135.59:7860/ The URL that WebLogic Server will use to contact the JNDI provider. T being used. For WebLogic JMS, leave this field blank if you are referen Info...

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

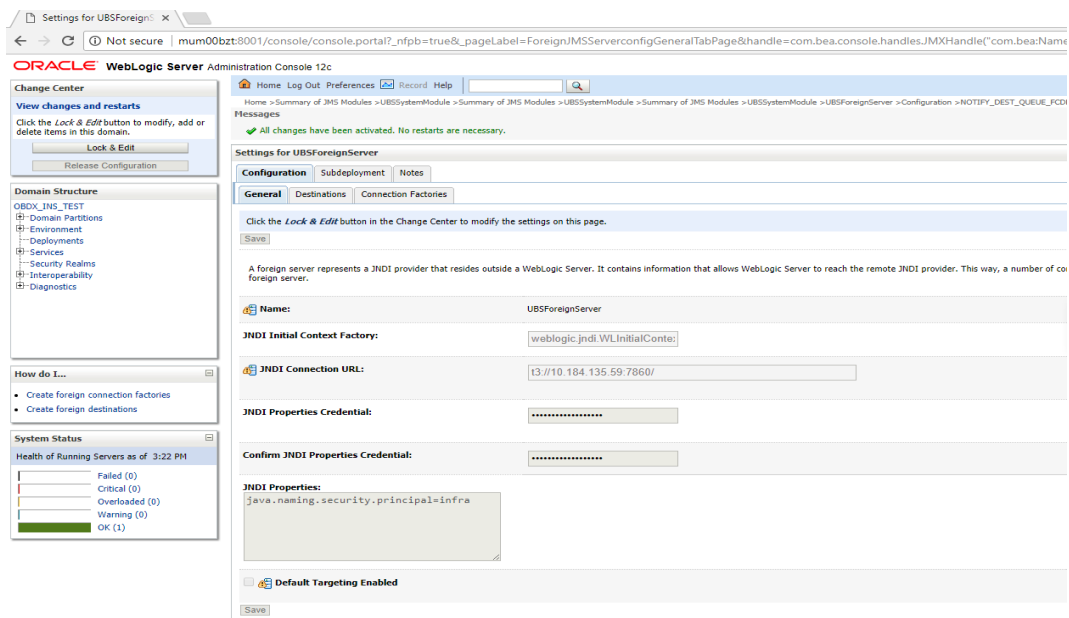
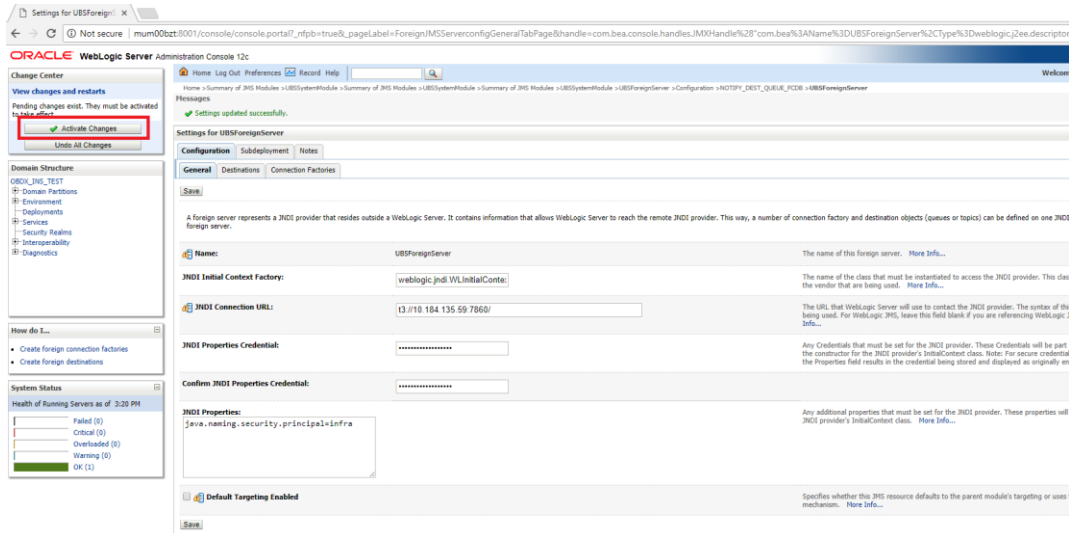
Confirm JNDI Properties Credential: ..... Any Credentials that must be set for the JNDI provider. These Credent the constructor for the JNDI provider's InitialContext class. Note: For s the Properties field results in the credential being stored and displaye

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

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

Save

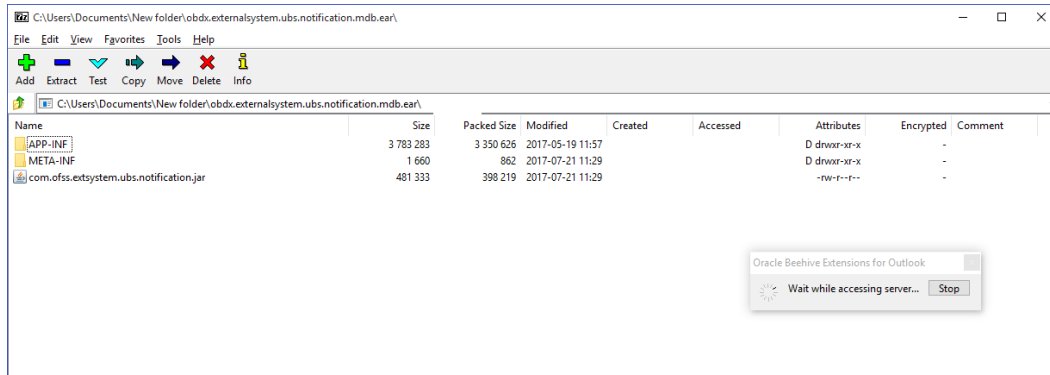
- Click on Activate Changes



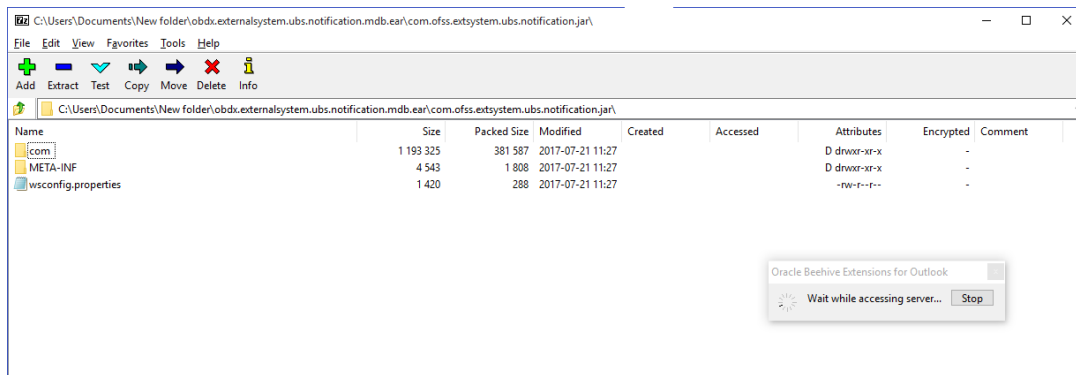
## Deployment of notification MDB application

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

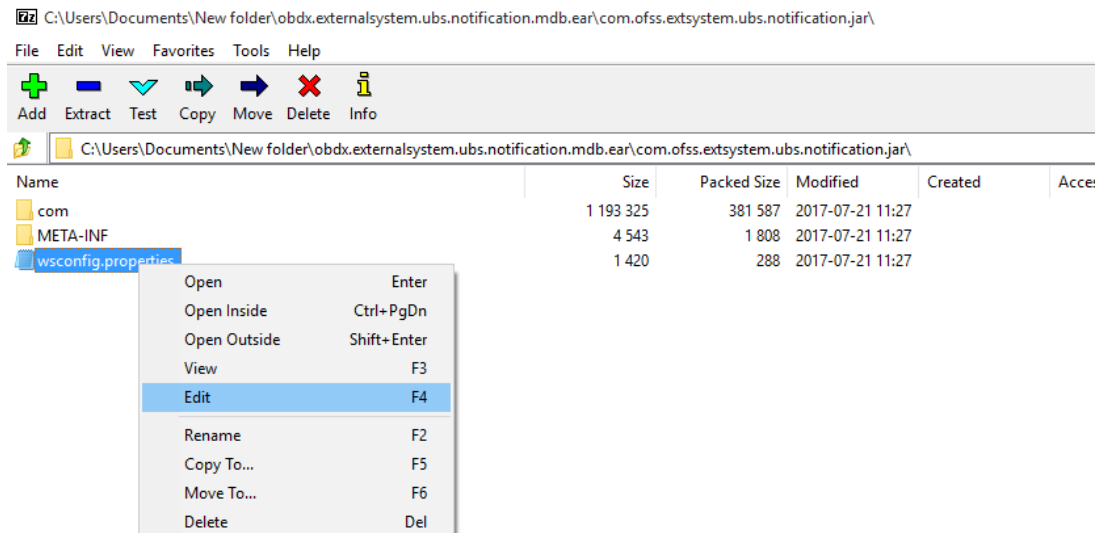
- Open the obdx.externalsystem.ubs.notification.mdb.ear (EAR file is available OBDX\_Installer/installables/app/components/obdx/deploy obdx.externalsystem.ubs.notification.mdb.ear) using any archiving tools (i.e.: 7-zip)



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



- Open the wsconfig.properties to edit



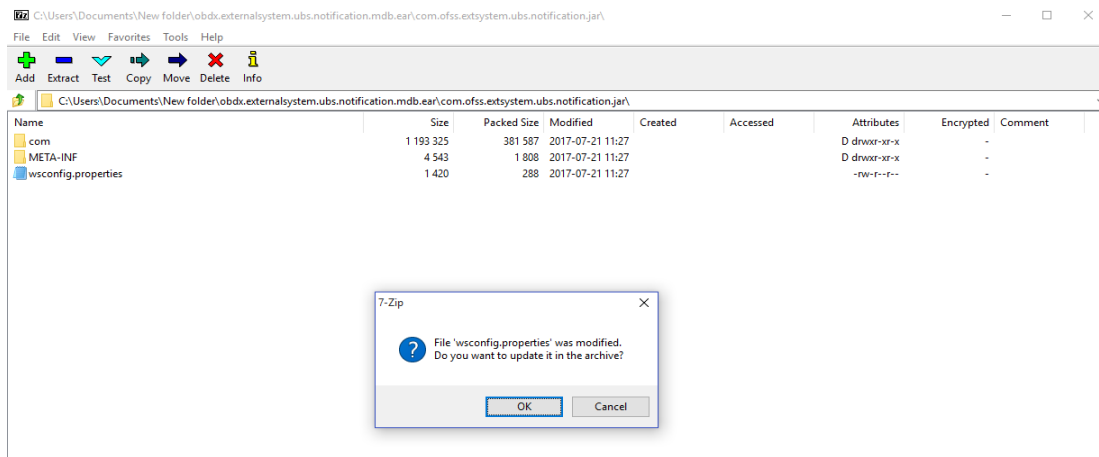
```
wsoconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service:AlertProcessorService
AlertProcessorService.namespace:http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url:http://mum00aom.in.oracle.com:9015/obdx/AlertProcessorService?wsdl
AlertProcessorService.stubClass:com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.endpointName:AlertProcessorPort
AlertProcessorService.stubService:com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.proxyClassName:com.ofss.digx.appx.alerts.service.host.HostAlertProcessor
AlertProcessorService.timeOut:1200000
FileProcessedNotifProcessorService.service:FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.namespace:http://host.service.fileupload.appx.digx.ofss.com/
FileProcessedNotifProcessorService.url:http://mum00aom.in.oracle.com:9015/obdx/FileProcessedNotifProcessorService?wsdl
FileProcessedNotifProcessorService.stubClass:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.endpointName:FileProcessedNotificationProcessorPort
FileProcessedNotifProcessorService.stubService:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.proxyClassName:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessor
FileProcessedNotifProcessorService.timeOut:1200000
```

- Change the URL for AlertProcessorService.url and FileProcessedNotifProcessorService.url (Note the hostname and port should be of OBDX managed server created by installer)

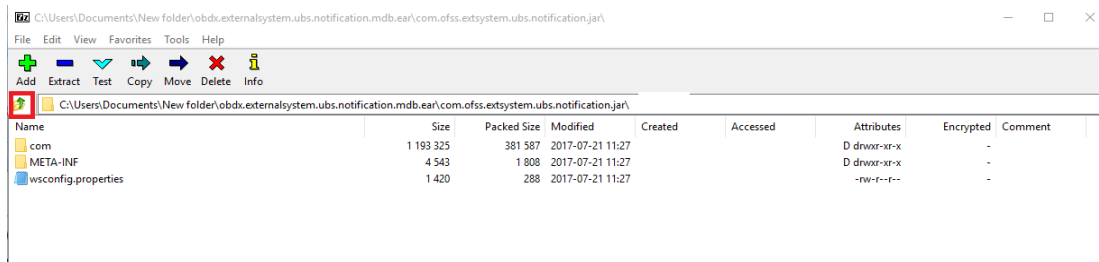
```
wsoconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service:AlertProcessorService
AlertProcessorService.namespace:http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url:http://mum00aom.in.oracle.com:9015/obdx/AlertProcessorService?wsdl
AlertProcessorService.stubClass:com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.endpointName:AlertProcessorPort
AlertProcessorService.stubService:com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.proxyClassName:com.ofss.digx.appx.alerts.service.host.HostAlertProcessor
AlertProcessorService.timeOut:1200000
FileProcessedNotifProcessorService.service:FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.namespace:http://host.service.fileupload.appx.digx.ofss.com/
FileProcessedNotifProcessorService.url:http://mum00aom.in.oracle.com:9015/obdx/FileProcessedNotifProcessorService?wsdl
FileProcessedNotifProcessorService.stubClass:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.endpointName:FileProcessedNotificationProcessorPort
FileProcessedNotifProcessorService.stubService:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.proxyClassName:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessor
FileProcessedNotifProcessorService.timeOut:1200000
```

```
wsoconfig.properties - Notepad
File Edit Format View Help
AlertProcessorService.service:AlertProcessorService
AlertProcessorService.namespace:http://host.service.alerts.appx.digx.ofss.com/
AlertProcessorService.url:http://mum00aom.in.oracle.com:9015/obdx/AlertProcessorService?wsdl
AlertProcessorService.stubClass:com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.endpointName:AlertProcessorPort
AlertProcessorService.stubService:com.ofss.digx.appx.alerts.service.host.AlertProcessorService
AlertProcessorService.proxyClassName:com.ofss.digx.appx.alerts.service.host.HostAlertProcessor
AlertProcessorService.timeOut:1200000
FileProcessedNotifProcessorService.service:FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.namespace:http://host.service.fileupload.appx.digx.ofss.com/
FileProcessedNotifProcessorService.url:http://mum00aom.in.oracle.com:9015/obdx/FileProcessedNotifProcessorService?wsdl
FileProcessedNotifProcessorService.stubClass:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.endpointName:FileProcessedNotificationProcessorPort
FileProcessedNotifProcessorService.stubService:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotifProcessorService
FileProcessedNotifProcessorService.proxyClassName:com.ofss.digx.appx.fileupload.service.host.FileProcessedNotificationProcessor
FileProcessedNotifProcessorService.timeOut:1200000
```

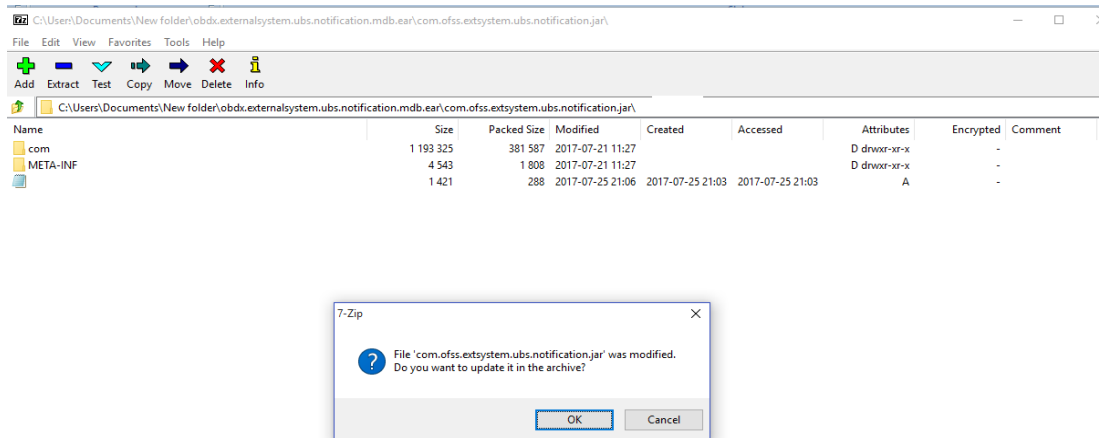
- Save changes.
- Click OK.

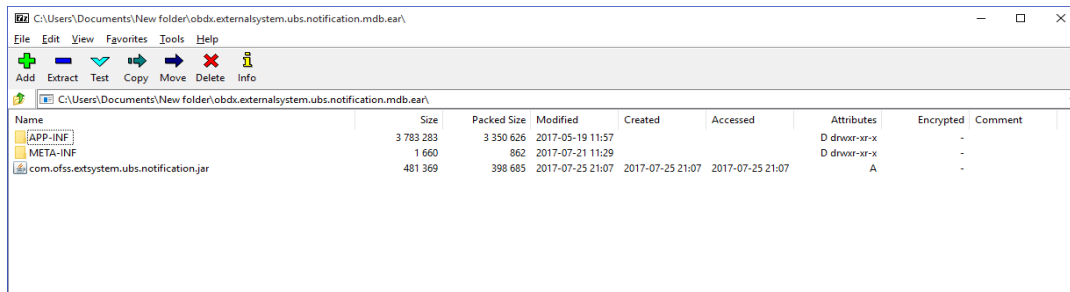


- Navigate back to obdx.externalsystem.ubs.notification.mdb.ear



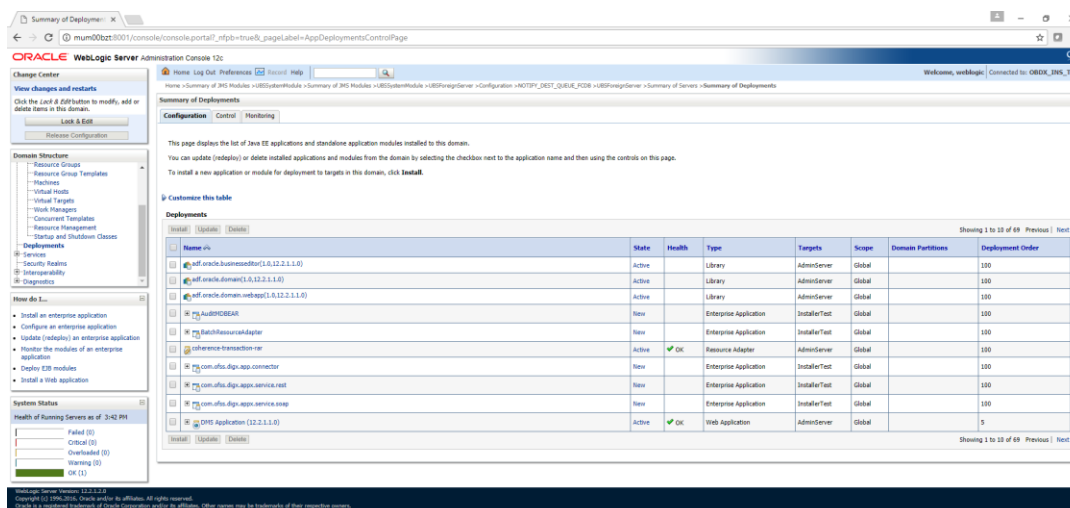
- Click OK



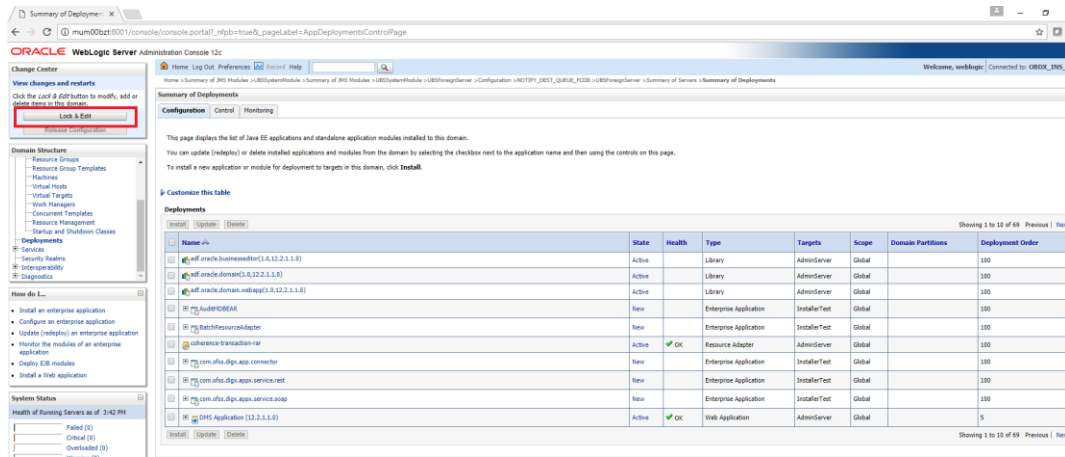


Deploy the updated obdx.externalsystem.ubs.notification.mdb.ear using below steps.

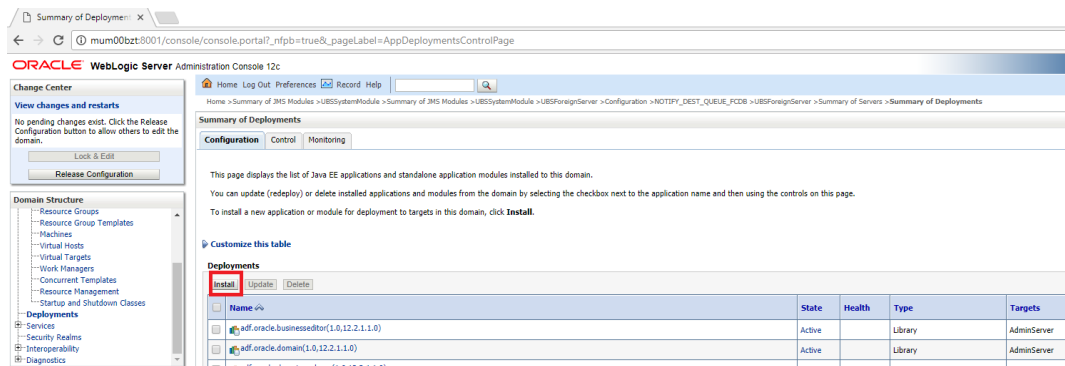
- Login into Weblogic Admin Console (OBDX domain created using installer) and navigate to Deployments



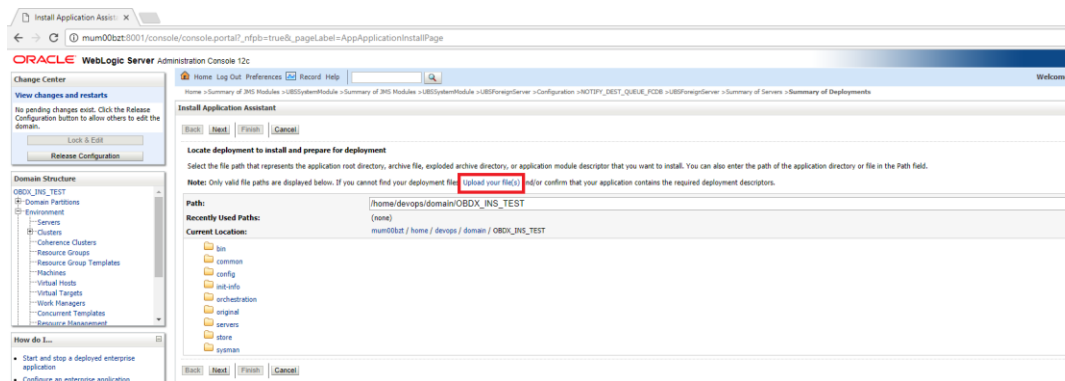
- Click Lock & Edit



- Click on Install

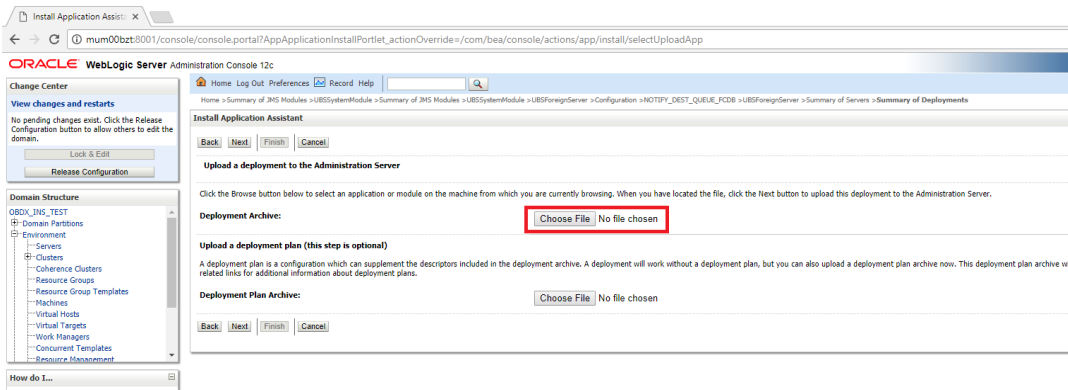


- Click on Upload your file(s)

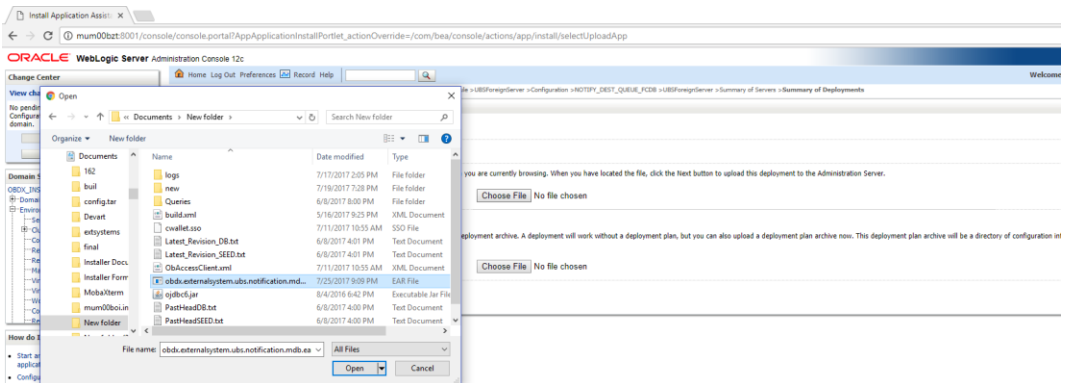


- Click on Choose File

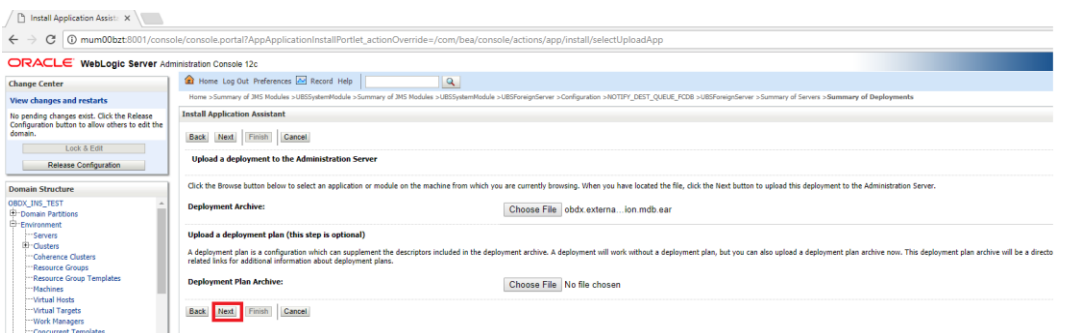




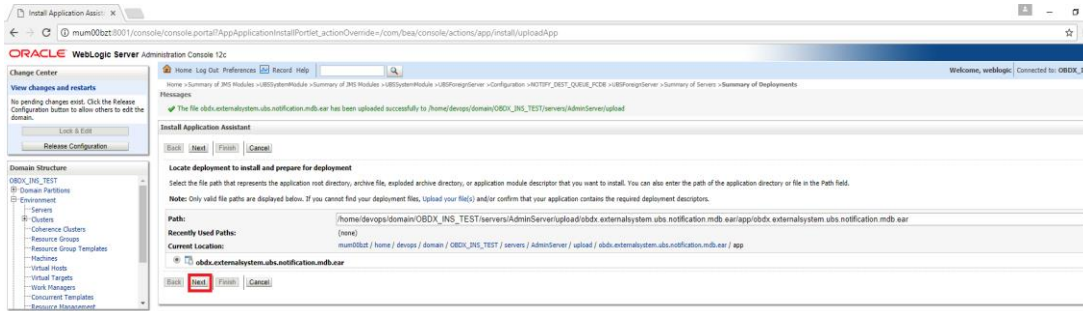
- Navigate to customized obdx.externalsystem.ubs.notification.mdb.ear and click Open



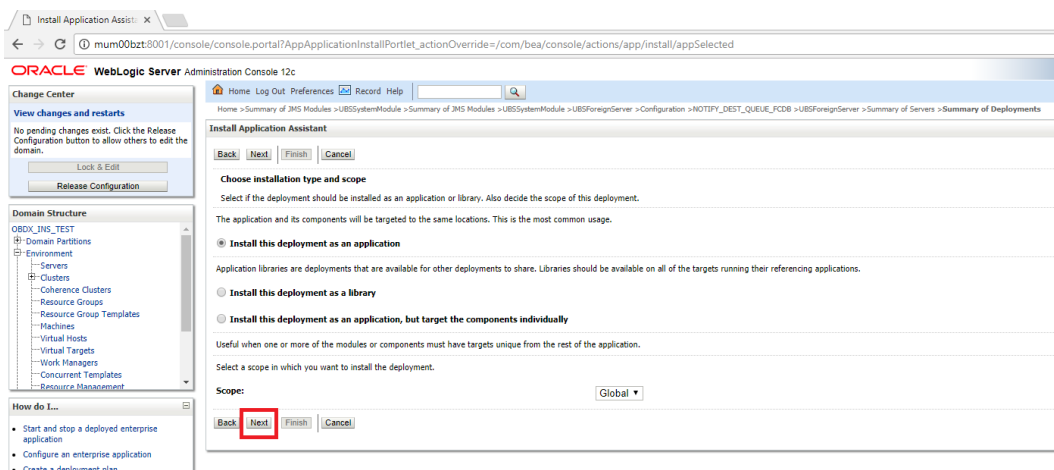
- Click Next



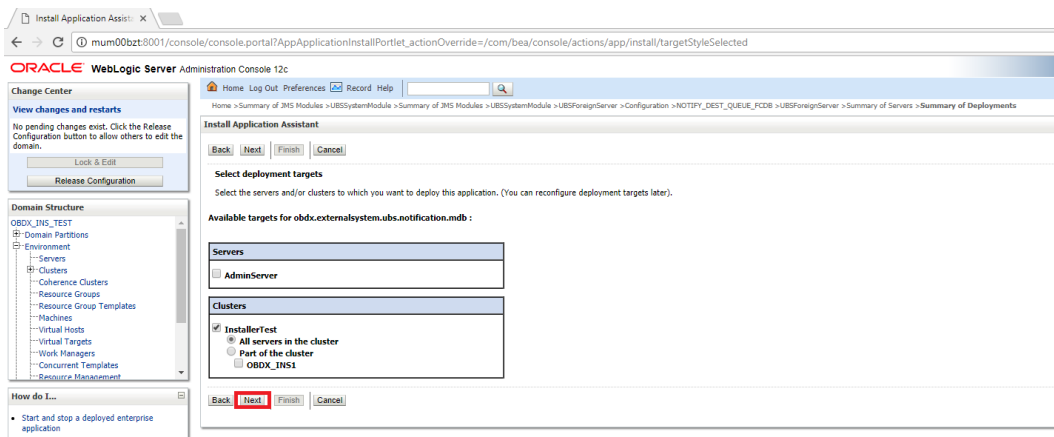
- Click Next



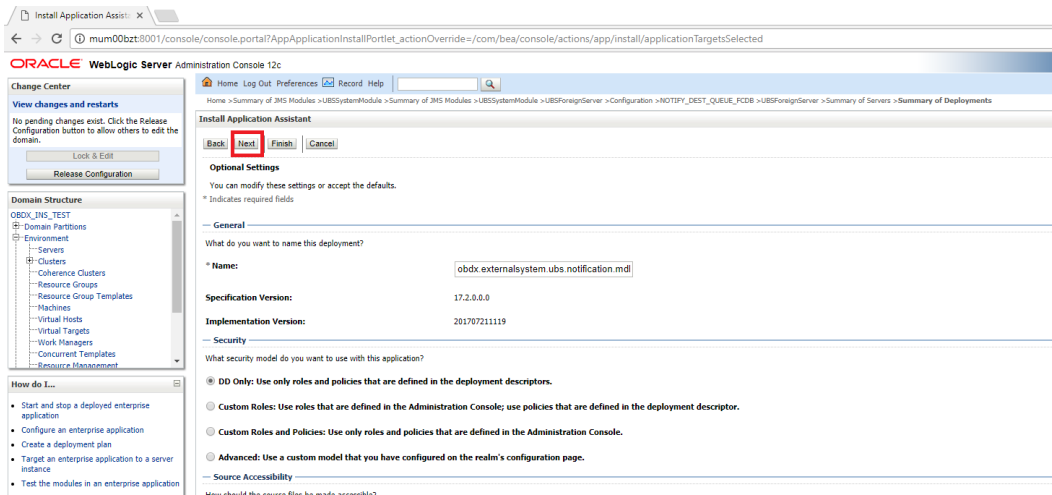
- Select “Install this deployment as an application” and click Next



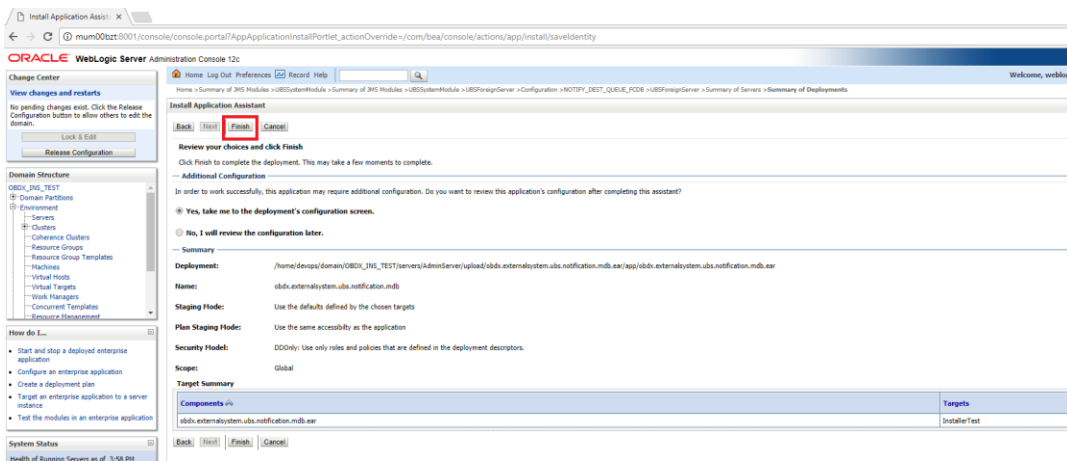
- Select Cluster as target and click Next



- Click Next



- Click Finish.



- Click Save.

Settings for obdx.externalsystem.ubs.notification.mdb

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > URSSystemModule > Summary of JMS Modules > URSSystemModule > URSSystemModule > URSSystemModule > Configuration > NOTPY\_DEST\_QUEUE\_FCDB > URSSystemModule > Summary of Servers > Summary of Deployments > obdx.externalsystem.ubs.notification.mdb

Settings for obdx.externalsystem.ubs.notification.mdb

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

**Save**

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

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

- Click Activate Changes

Settings for obdx.externalsystem.ubs.notification.mdb

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > URSSystemModule > Summary of JMS Modules > URSSystemModule > URSSystemModule > Configuration > NOTPY\_DEST\_QUEUE\_FCDB > URSSystemModule > Summary of Servers > Summary of Deployments > obdx.externalsystem.ubs.notification.mdb

Messages

Settings updated successfully.

Settings for obdx.externalsystem.ubs.notification.mdb

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

**Save**

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

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

**Save**

**System Status**

Health of Running Servers as of 3:59 PM

Failed (0)

Critical (0)

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for obdx.externalsystem.ubs.notification.mdb" and includes a navigation menu with tabs for Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, and Monitoring. The "Overview" tab is active, showing a table of configuration parameters for the application.

**Messages:** All changes have been activated. No restarts are necessary.

**Settings for obdx.externalsystem.ubs.notification.mdb**

Parameter	Value	Description
Name	obdx.externalsystem.ubs.notification.mdb	The name of this enterprise application. <a href="#">More</a>
Scope	Global	Specifies if this enterprise application is accessible globally. <a href="#">More</a>
Path	/home/devops/domain/OBDX_JMS_TEST/servers/AdminServer/upload/obdx.externalsystem.ubs.notification.mdb.ear/app/obdx.externalsystem.ubs.notification.mdb.ear	The path to the source of the deployable unit. <a href="#">More</a>
Deployment Plan	(no plan specified)	The path to the deployment plan document on the server. <a href="#">More</a>
Staging Mode	(not specified)	Specifies whether a deployment's files are copied to the staging area during application preparation. <a href="#">More Info</a>
Plan Staging Mode	(not specified)	Specifies whether an application's deployment plan is copied to the staging area during application preparation. <a href="#">More Info</a>
Security Model	DDOnly	The security model that is used to secure a deployment. <a href="#">More Info</a>
Deployment Order	100	An integer value that indicates when this unit is deployed. <a href="#">More Info</a>
Deployment Principal Name		A string value that indicates the principal that is used to set the current unit's configuration. <a href="#">More Info</a>

On the left side of the console, there is a "Change Center" section with "Lock & Edit" and "Release Configuration" buttons. Below it is a "Domain Structure" tree view showing the hierarchy of the domain, including Environment, Servers, Clusters, and various templates. At the bottom left, there is a "System Status" section showing the health of running servers as of 3:59 PM, with 0 Failed and 0 Critical servers.

**Fileupload with UBS**

Refer below document for File upload configuration with UBS

Oracle Banking Digital Experience File Upload Report Configuration

**OBDX with OBP Base (Installation with Oracle Banking Platform)**

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

Oracle Banking Digital Experience OBP Base Setup and Configuration

**OBDX US LZN with OBP US LZN (Installation with Oracle Banking Platform US LZN)**

Once OBP Base setup and configuration is complete, refer below document to apply LZN Installer required for integration with OBP 2.5.0.2 US LZN.

Oracle Banking Digital Experience OBP US LZN Setup and Configuration

**OBDX with OFSLL (Installation with Oracle Services Lending and Leasing)**

Refer below document for OFSLL Installer required for integration with OFSLL

Oracle Banking Digital Experience OFSLL Setup Configuration

OFSLL supports social media integration. Refer Oracle Banking Digital Experience Origination Social Media Integration document.

**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

## 9. OBDX Product Verification

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

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

<input type="checkbox"/>	obdx.app.core.domain(17.2.0.0.0,201707120532)	Active		Library	AdminServer, obdx_cluster		
<input type="checkbox"/>	obdx.app.core.patch(17.2.0.0.0,201707120532)	Active		Library	AdminServer, obdx_cluster		
<input type="checkbox"/>	obdx.app.domain(17.2.0.0.0,201707120532)	Active		Library	obdx_cluster		
<input type="checkbox"/>	obdx.app.security(17.2.0.0.0,201707120532)	Active		Library	AdminServer, obdx_cluster		
<input type="checkbox"/>	obdx.app.wsdl.domain(17.2.0.0.0,201707120532)	Active		Library	AdminServer, obdx_cluster		
<input type="checkbox"/>	obdx.externalsystem.ubs(17.2.0.0.0,201707120532)	Active		Library	obdx_cluster		
<input type="checkbox"/>	obdx.externalsystem.ubs.notification.mdb	Active		Enterprise Application	obdx_cluster		
<input type="checkbox"/>	obdx.thirdparty.app.domain(17.2.0.0.0,201707120532)	Active		Library	AdminServer, obdx_cluster		

<input type="checkbox"/>	ReportsMDBEAR	Active	✔ OK	Enterprise Application	obdx_cluster		
--------------------------	---------------	--------	------	------------------------	--------------	--	--

To login into application, new user needs to be created in OUD refer section 9.4 (Creating the Attributes, Object Class, Users, Groups and Adding Optional Attributes on LDAP Server) of document “Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual” mentioned in section 1.5 Related Information Sources.

To verify the installation, launch below URL

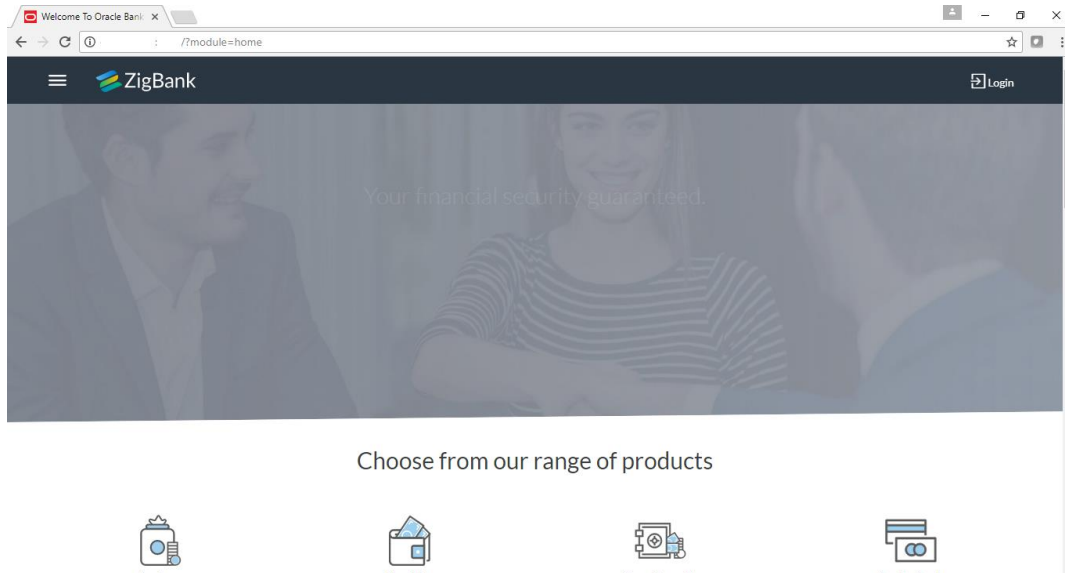
**Flavor: OBDX (Installation with Third Party System) & OBDX with UBS (Installation with Universal Banking Solution)**

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

**Flavor: OBDX with OBP (Installation with Oracle Banking Platform) & OBDX with FLL (Installation with Oracle Financial Services Lending and Leasing)**

http://<OHS server ip or hostname>:<OHS port>/index/public/model-bank.html?module=home

Check if the page loads successfully.



### **Day1 Configuration**

#### **OBDX with UBS (Installation with Universal Banking Solution)**

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

User Manual Oracle Banking Digital Experience Core

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

---

**Note:** Post Day1 restart of Managed server is mandatory

---

#### **OBDX (Installation with Third Party System)**

Refer below document for Day1 configuration required for integration with Third-party System

Oracle Banking Digital Experience Third Party Configuration

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

---

**Note:** Post Day1 restart of Managed server is mandatory

---



**OBDX with OBP (Installation with Oracle Banking Platform)**

Refer below document for Day1 configuration required for integration with OBP

User Manual Oracle Banking Digital Experience Core

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

---

**Note:** Post Day1 restart of Managed server is mandatory

---

**OBDX with OBP (Installation with Oracle Banking Platform) US LZN**

Refer below document for Day1 configuration required for integration

User Manual Oracle Banking Digital Experience Core

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

---

**Note:** Post Day1 restart of Managed server is mandatory

---

**OBDX with FLL (Installation with Oracle Financial Services Lending and Leasing)**

Refer below document (section 5.1 System Configuration) for Day1 configuration required for integration with OFSLL

Oracle Banking Digital Experience OFSLL Setup 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

## 10. OBDX Product Security

Refer below document for OBDX product security configuration

Oracle Banking Digital Experience Security Guide

# 11. Troubleshoot Overview

This section describes how to troubleshoot OBDX setup.

## Invalid database password

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

If you get the following error:



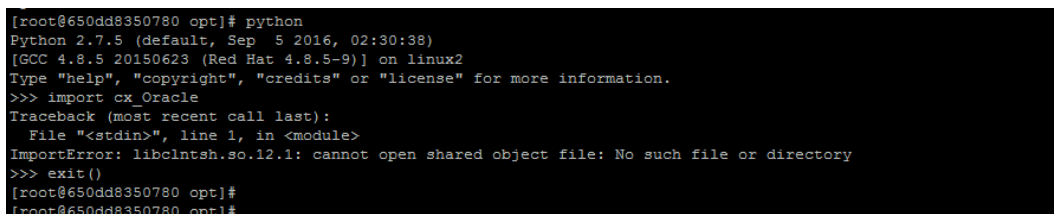
Try one of the following:

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

## cx\_oracle module

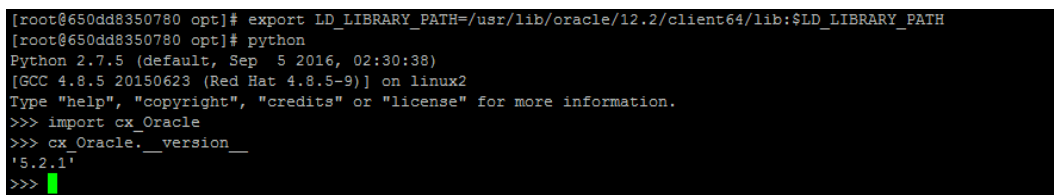
This topic contains troubleshooting information about problems with cx\_Oracle python module.

If you get the following error:



Execute the below command:

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



### Failed Database Scripts

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

If you get the following error in DB\_installation.log:

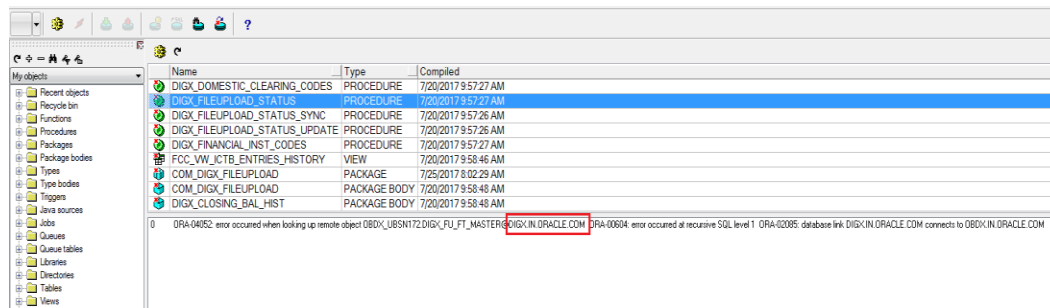
```
2017-07-13 13:45:41,747 DEBUG Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTENTITYUSERTYPELANG.sql successful
2017-07-13 13:45:41,796 ERROR Executed /scratch/jenkins/OBDX_Installer/ExecInstances/13Jul1338/db/UBS/seed/mstlang.sql failed
2017-07-13 13:45:41,796 DEBUG total scripts=15
2017-07-13 13:45:41,797 DEBUG scripts successfully executed=14
```

Check the detailed log of the failed SQL file at OBDX\_Installer/ExecInstances/<DDMonthHHMM>/logs/db folder.

### Invalid database objects

This topic contains troubleshooting information about problems with invalid objects in UBS schema.

If you get the following error:



Fix the problem by doing the following:

- Check the db link configuration for DIGX
- Check if the below query gets executed successfully:
- `select * from dual@OBDX;`