# Oracle Identity Manager Integration Implementation Guide
Oracle FLEXCUBE Universal Banking
Release 12.87.2.0.0
[February] [2016]
Part No. E71280-01

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# 1. Introduction

For the purpose of centralized user provisioning FLEXCUBE is qualified with Oracle Identity Manager - Oracle® Fusion Middleware 11g Release 2 (11.1.2.2.0). This feature is available in FLEXCUBE since the release FCUBS V.UM 10.1.0.0.0.0.0.

**Scope**

This document provides an understanding as to how centralized provisioning through OIM can be enabled for FCUBS.

In addition to providing a background to the various components of the deployment, this document provides detailed steps as to how to install the various FCUBS components required for the integration with OIM configuration in FCUBS and Oracle Identity Manager to enable centralized provisioning.

**Introduction to Oracle Identity Manager**

Oracle Identity Manager is an identity management product that automates user provisioning, identity administration, and password management, integrated in a comprehensive workflow engine. It enables organizations to reduce Information Technology (IT) administration costs and improve security. Oracle identity manager achieves this by providing a centralized control mechanism to manage the entire life cycle of user identities and entitlements and to control user access to across all resources in the organization.

**Advantage**

Integrating FCUBS with Oracle identity Manager provides capability for managing the entire life cycle of FCUBS user identities through a centralized point provided by OIM in both scenario- FCUBS without single sign on and FCUBS with single sign on.

# 2. Requirements / Problem Statement

The requirement is to integrate FCUBS with Oracle Identity Manager for FCUBS user provisioning and de-provisioning services with and without FCUBS single sign on.

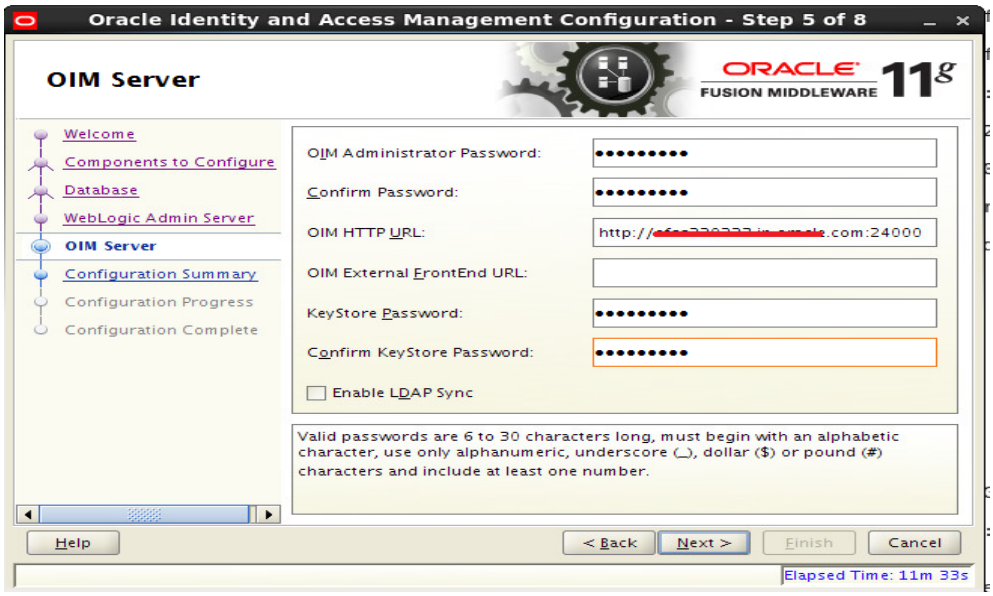
# 3. Prerequisites

## 3.1 Software Required

Oracle® Fusion Middleware 11g Release 2 (11.1.2.2.0)

Refer Oracle Identity Manager Document for Installation and configuration of Oracle Identity Manager.

While Configuring Oracle Identity Management, uncheck Enable LDAP Sync option like shown below:




Note *: To get the Keystore Password in the above screen while configuring OIM Console, you should have only Weblogic Admin Server, OIM Server and SOA Server in this OIM Domain. Based on that the below keystore will be created with store password

<Domain_home>/config/fmwconfig/default-keystore.

- Oracle Internet Directory Connector 11.1.1.6.0
- Refer the below sections:
  - Installation of Oracle Internet Directory Connector (Section 2.2.1.1, 2.2.1.2 & 2.3.1.1)
  - Connector by default will be available with Oracle Identity and Access Management Suite.

The path will be as follows :

<Oracle_Middleware>/<OIM_HOME>/connector/oid

For example:

Linux: /app/oracle/Middleware/Oracle_IDM1/connector/oid

Windows: C:\apps\oracle\Middleware\Oracle_IDM1\connector\oid

The above directory <oid> has to be copied into

<Oracle_Middleware>/<OIM_HOME>/server/ConnectorDefaultDirectory

- Configuring Oracle Identity Manager Design Console

## 3.2 FLEXCUBE Component Required

FLEXCUBE Gateway EJB

# 4. System Description

## 4.1 About Oracle Identity Manager

Oracle Identity Manager is an identity management product that automates user provisioning, identity administration, and password management, integrated in a comprehensive workflow engine. Key features of Oracle Identity Manager include password management, workflow and policy management, identity reconciliation, reporting and auditing, and extensibility through adapters.

### 4.1.1 Oracle Identity Manager System Components

Oracle Identity Manager is built on an enterprise-class, modular architecture that is both open and scalable. Each module plays a critical role in the overall functionality of the system:

**Identity Administration**

Identity administration includes creation and management of identities in Oracle Identity Manager. Identities include users, organizations, and roles. Identity administration also enables password management and user Oracle Identity Manager Self Service operations. Identity administration is performed by using Oracle Identity Manager Administration and Oracle Identity Manager Self Service Web clients, and the SPML Web service.

**Provisioning**

The provisioning transactions are assembled and modified in the provisioning module. This module maintains the "who" and "what" of provisioning. User profiles, access policies, and resources are defined in the provisioning module, as are business process workflows and business rules.

The Provisioning Server is the run-time engine for Oracle Identity Manager. It runs the provisioning process transactions as defined through Oracle Identity Manager Administration and Oracle Identity Manager Design Console and maintained within the provisioning module.

**Audit and Reports**

The audit and compliance functions include evaluating a person, organization, system, process, project, or product. This occurs by capturing data generated by the suite's workflow, policy, and reconciliation engines. By combining this data with identity data, an enterprise has all the information it requires to address any identity and to access a related audit inquiry. Audits are performed to ascertain the validity and reliability of information, and also provide an assessment of a system's internal control.

Reporting is the process of generating a formal document, which is created as a result of an audit. The report is subsequently provided to a user, such as an individual, a group of persons, a company, a government, or even the general public, as an assurance service so that the user can make decisions, based on the results of the audit. An enterprise can create reports on both the history and the current state of its provisioning environment. Some captured identity data includes user identity profile history, role membership history, user resource access, and fine-grained entitlement history.

**Reconciliation and Bulk Load**

The reconciliation engine ensures consistency between the provisioning environment of Oracle Identity Manager and Oracle Identity Manager managed resources within the organization. The reconciliation engine discovers illegal accounts created outside Oracle Identity Manager. The reconciliation engine also synchronizes business roles located inside and outside the provisioning system to ensure consistency.

If you want to load a large amount of data from other repositories in your organization into Oracle Identity Manager, then you can use the Bulk Load utility. The Bulk Load utility reduces the downtime in loading the data. In addition, Bulk Load utility import Oracle Identity Manager users, roles, role memberships, and accounts provisioned to users.

**Common Services**

Various services are grouped together that are shared and used by other Oracle Identity Manager components. These services are:

**Form Designer**: A form that allows you to create process and resource object forms that do not come packaged with Oracle Identity Manager.

**Scheduler**: A service that provides the capability to run specific jobs at specific schedules. This service can be used by users, application developers, connector developer, and administrators to create and configure a Job to be run at specified intervals. In addition, this service provides administrative capabilities to manage the functionality of jobs and their schedules.

**Notification Templates**: A common notification service is used by other functional components to send notifications to interested parties about events occurring in Oracle Identity Manager. In addition, this service provides the administrative capabilities for notification template management. A notification template is used for sending the outgoing notifications. These templates typically contain the variables that refer to the available data to provide more contextual content.

**System Properties**: A system property is an entity that controls the configuration aspect of an application. In addition, to the default system properties, you can create and manage system properties in Oracle Identity Manager.

**Deployment Manager**: The Deployment Manager is a tool for exporting and importing Oracle Identity Manager configurations. The Deployment Manager enables you to export the objects that make up your Oracle Identity Manager configuration.

**Workflow and Request Management**

Various operations in Oracle Identity Manager cannot be performed directly. Instead, the operations must be requested. The request management service provides a mechanism to create, approve, and manage requests. A request is an entity created by the users or administrators who want to perform a specific action, which requires a discretionary permission to be obtained from someone or some process before the action can be performed. For example, a user can create a request to gain access to a laptop computer, a manager can approve the request and create an open requisition, and an IT resource administrator can approve the request.

The primary goal of a provisioning solution is to manage requests and provision resources. Request service provides an abstraction layer on the Business Process Execution Language (BPEL) 11g workflow engine. Functional components such as request, provisioning, and attestation interacts with the workflow engine for human approvals. Request service caters to the various functional components in Oracle Identity Manager by managing workflow instances and categories, and provides an abstraction layer on BPEL.

**Infrastructure and Middleware Integration**

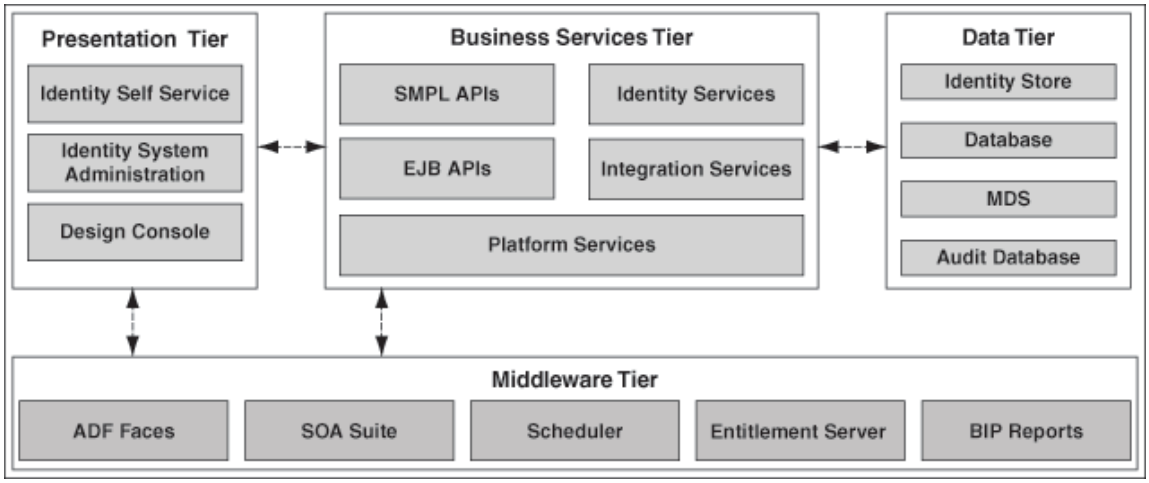
The Adapter Factory, Kernel Orchestration mechanism, Context Manager, and Plug-in Framework are designed to eliminate the need for hard-coding integrations with these systems.

**Connector Framework**

The integration solution strategy of Oracle Identity Manager provides connectors to various heterogeneous identity-aware IT systems. This strategy is designed to minimize custom development, maximize the reuse of code, and reduce deployment time. The tiers of the integration solution are:

- Out-of-the box integration using predefined connectors and predefined generic technology connector providers
- Identity connectors that are designed to separate the implementation of an application from the dependencies of the system that the application is attempting to connect to
- Connectors based on custom generic technology connector providers
- Custom connectors using the Adapter Factory

Following figure illustrates the system components of Oracle Identity Manager.




## 4.2 Integration / Design Architecture

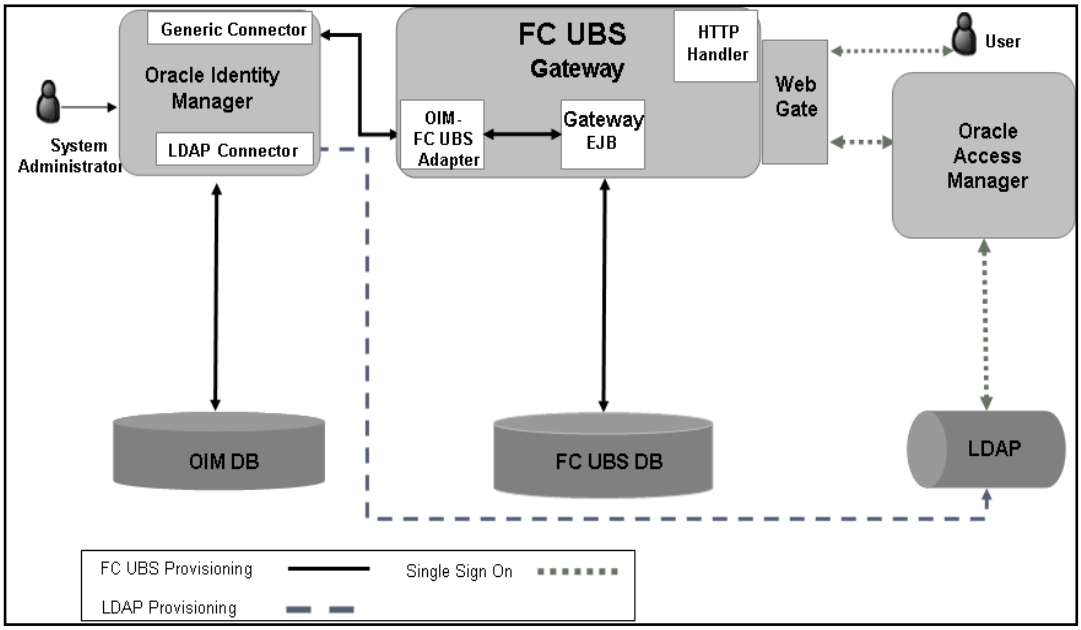
With the integration of FCUBS and Oracle Identity Manager, a user can be created, modified, closed, and reopened in FCUBS. Oracle Identity Manager acts as the front-end entry point for managing mandatory fields of FCUBS user. After users are provisioned, the users can access the FCUBS without any interaction with Oracle Identity Manager. This integration also ensures that any change that has been made for corresponding user in FCUBS should be reflected in OIM using reconciliation feature of OIM.

**Design**

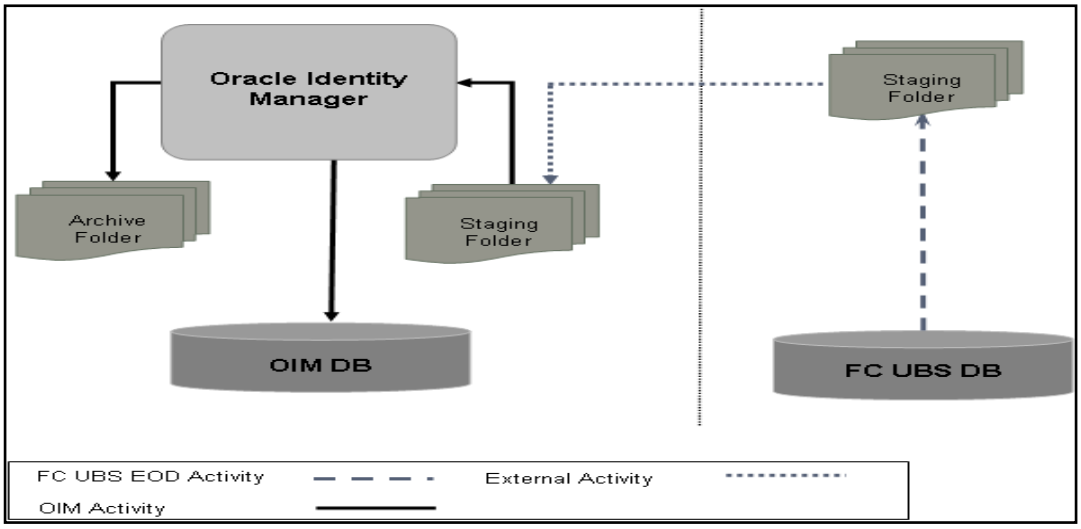
For the purpose of integration of Oracle Identity manager and FCUBS “Generic technology connector” (GTC) has been used. GTC provides out of box providers for provisioning and reconciliation.

Following two figures illustrate the design aspect of the provisioning and reconciliation process:

### 4.2.1 Provisioning Design Architecture




### 4.2.2 Reconciliation Design Architecture




### 4.2.3 Design Constraints

The followings are the design constraints for this integration:

- This integration is based upon sample configuration containing only mandatory fields of FCUBS user while defining the GTC. Other fields can be defined in the GTC using the same configurations.
- Due to specific data requirement for FCUBS user creation, only manual provisioning method can be used for FCUBS provisioning.
- User role is not taken up in this integration and the FCUBS user will not be associated with any role at the time of user creation.
- A common FCUBS maker id will be used for user creation that is maintained as property in a property file.

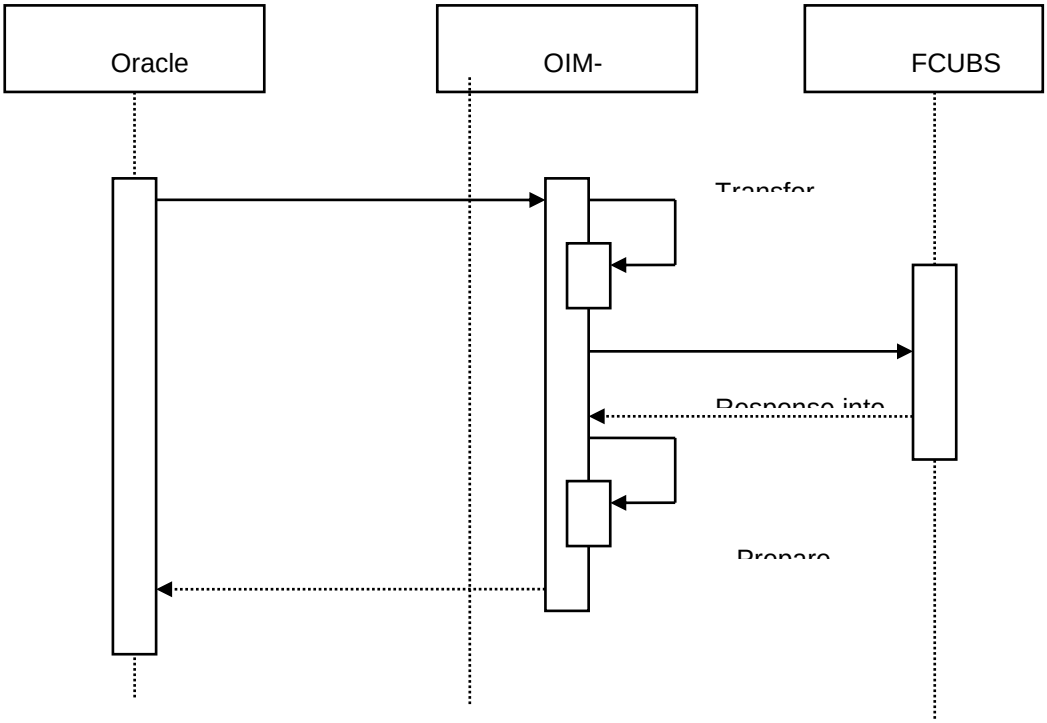
- OIM does not allow ASCII special characters e.g. ampersand, colon, braces etc. Apart from this, OIM also does not allow multiple consecutive occurrences of some of special ASCII character like underscore etc.

### 4.2.4 Message Flow

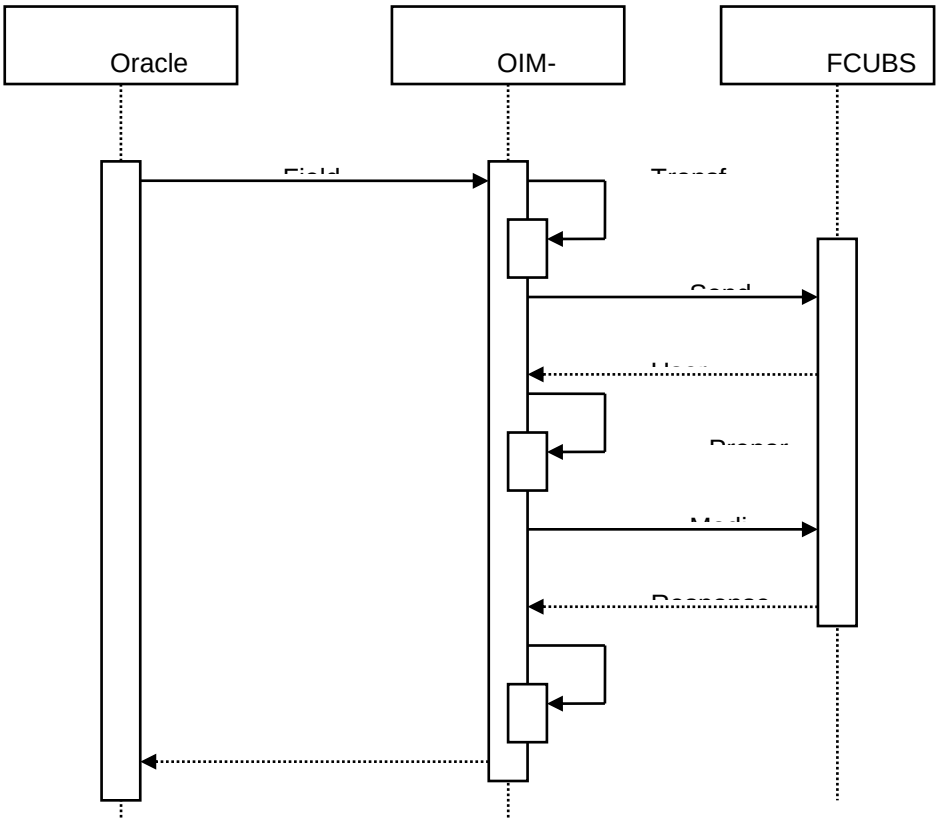
OIM-FCUBS adapter would transform the request from the OIM SPML/DSML to FCUBS Gateway request using Extensible Style sheet Language Transformation (XSLT). Transformed XML request will be sent to the FCUBS Gateway EJB for further processing based on the type of the request. Based on the FCUBS Gateway EJB response OIM-FCUBS adapter will prepare the response in SPML/DSML format and will send to the OIM.

Following gives the sequence of the message exchanges between the adapter and FCUBS Gateway EJB for user provisioning that are initiated from OIM.

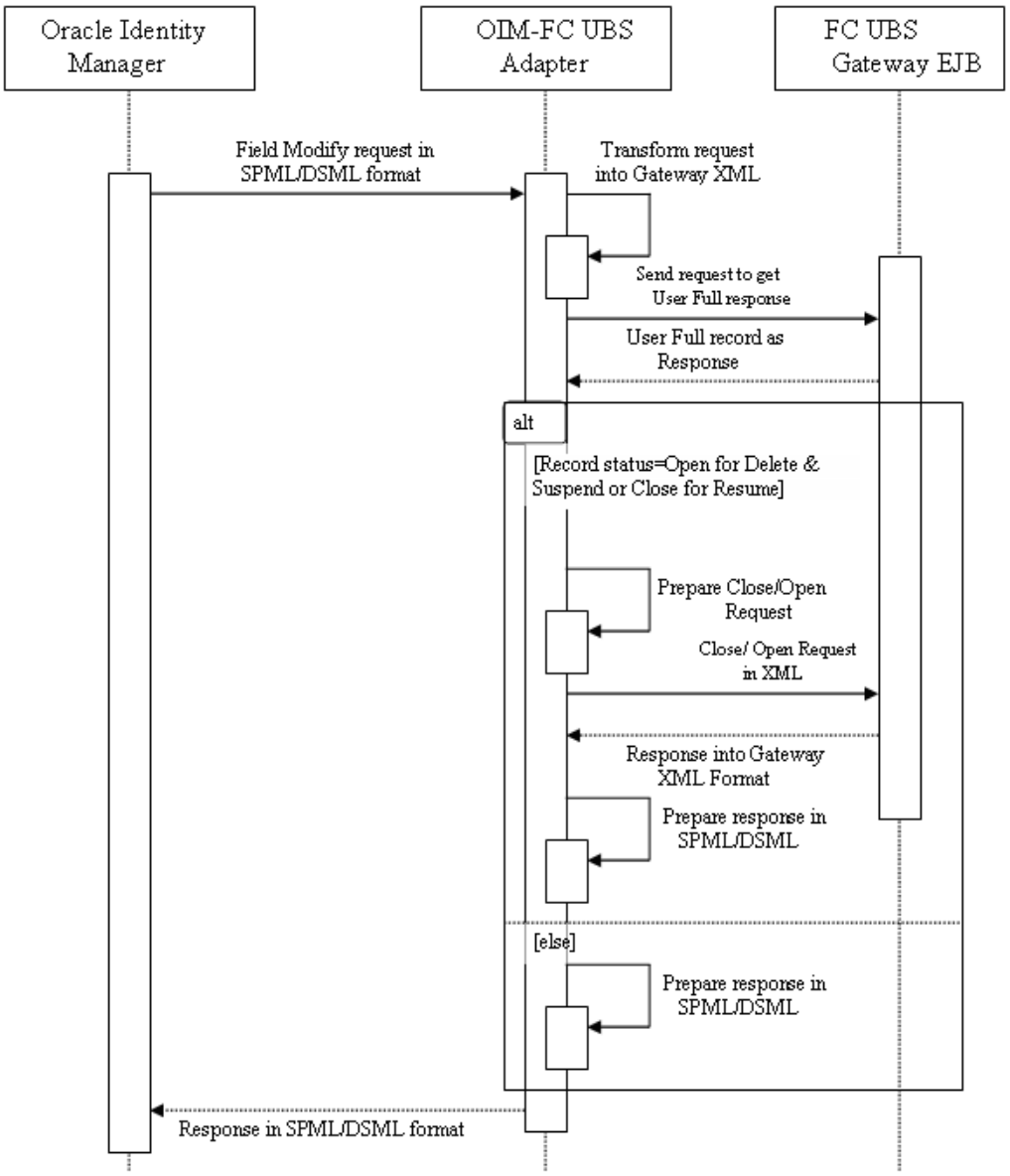
#### 4.2.4.1 Message exchange sequence for User Creation



#### 4.2.4.2 Message exchange sequence for User Field Modification/Set Password



#### 4.2.4.3 Message exchange sequence for User Delete/Suspend/Resume Request



# 5. Installation / Configuration

## 5.1 Environment Setup/Configurations

FLEXCUBE - OIM Integration environment setup requires

- OIM FLEXCUBE Adapter setup & configuration
- OIM setup

Note: This implementation document describes the installation and setup of OIM FLEXCUBE Adapter on Oracle Fusion Middleware 11g Release 2 (11.1.2.2.0).

### 5.1.1 Enabling SSL for Weblogic and OIM Server

#### 5.1.1.1 Self-Signed Certificate Creation

To enable SSL mode, Weblogic requires a keystore which contains private and trusted certificates. We have to use the same version of JDK (which is used by Weblogic Domain), to create the keystore and certificates, otherwise it may lead to many difficulties (suggested by Oracle Support).

Keytool utility available in Java JDK will be used to create Keystore. In command prompt set PATH to the JDK\bin location. Follow the below steps to create keystore and self-signed certificates:Keystore Creation

keytool -genkey -keystore <keystore_name.jks> -alias <alias_name> -dname "CN=<hostname>, OU=<Organization Unit>, O=<Organization>, L=<Location>, ST=<State>, C=<Country_Code>" -keyalg <Key Algorithm> -sigalg <Signature Algorithm> -keysize <key size> -validity <Number of Days> -keypass <Private key Password> -storepass <Store Password>

For example:

keytool -genkey -keystore AdminFlexcubeKeyStore.jks -alias FlexcubeCert -dname "CN=ofss00001.in.oracle.com, OU=OFSS, O=OFSS, L=Chennai, ST=TN, C=IN" -keyalg "RSA" -sigalg "SHA1withRSA" -keysize 2048 -validity 3650 -keypass Password@123 -storepass Password@123

**Note**: **CN=ofss00001.in.oracle.com** is the Host Name of the weblogic server

#### 5.1.1.2 Export Private key as Certificate

keytool -export -v -alias <alias_name> -file <export_certificate_file_name_with_location.cer> -keystore <keystore_name.jks> > -keypass <Private key Password> -storepass <Store Password>

For example:

keytool -export -v -alias FlexcubeCert -file AdminFlexcubeCert.cer -keystore AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123

#### 5.1.1.3 Import as Trusted Certificate

keytool -import -v -trustcacerts -alias rootcacert -file <export_certificate_file_name_with_location.cer> -keystore <keystore_name.jks> > -keypass <Private key Password> -storepass <Store Password>

For example:

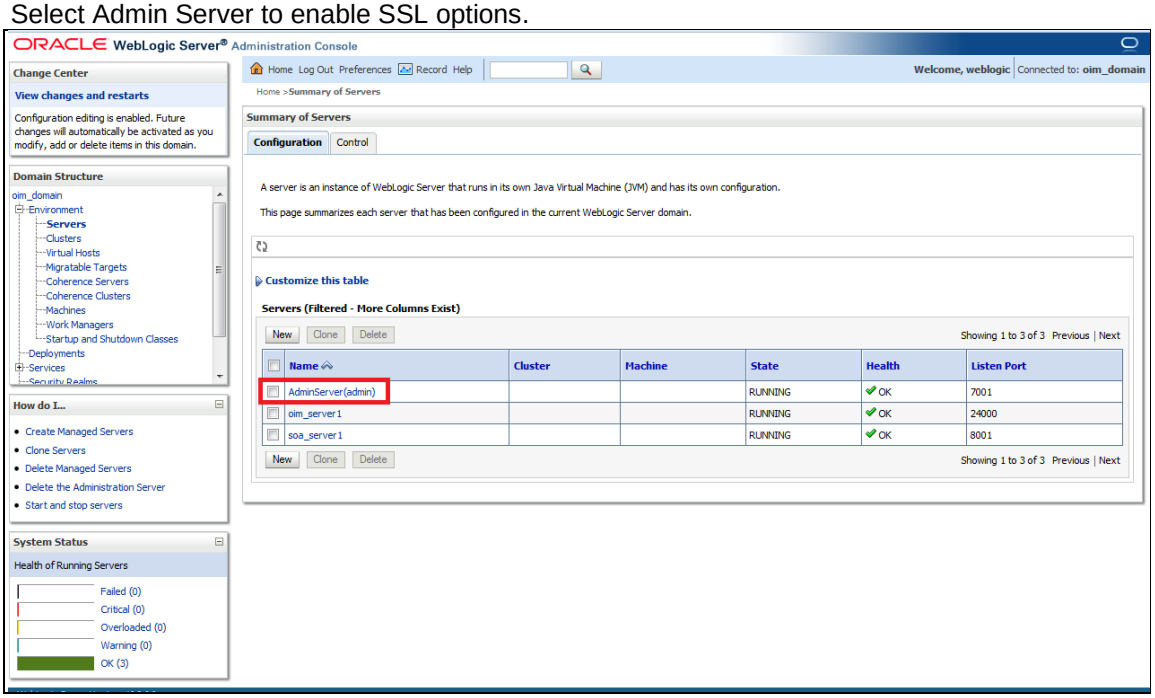
keytool -import -v -trustcacerts -alias rootcacert -file AdminFlexcubeCert.cer -keystore AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123

References: Oracle Support Articles (Article ID 1281035.1, Article ID 1218695.1), in case of Certificates issued by the Trusted Authorities

#### 5.1.1.4 Configuring Weblogic Console

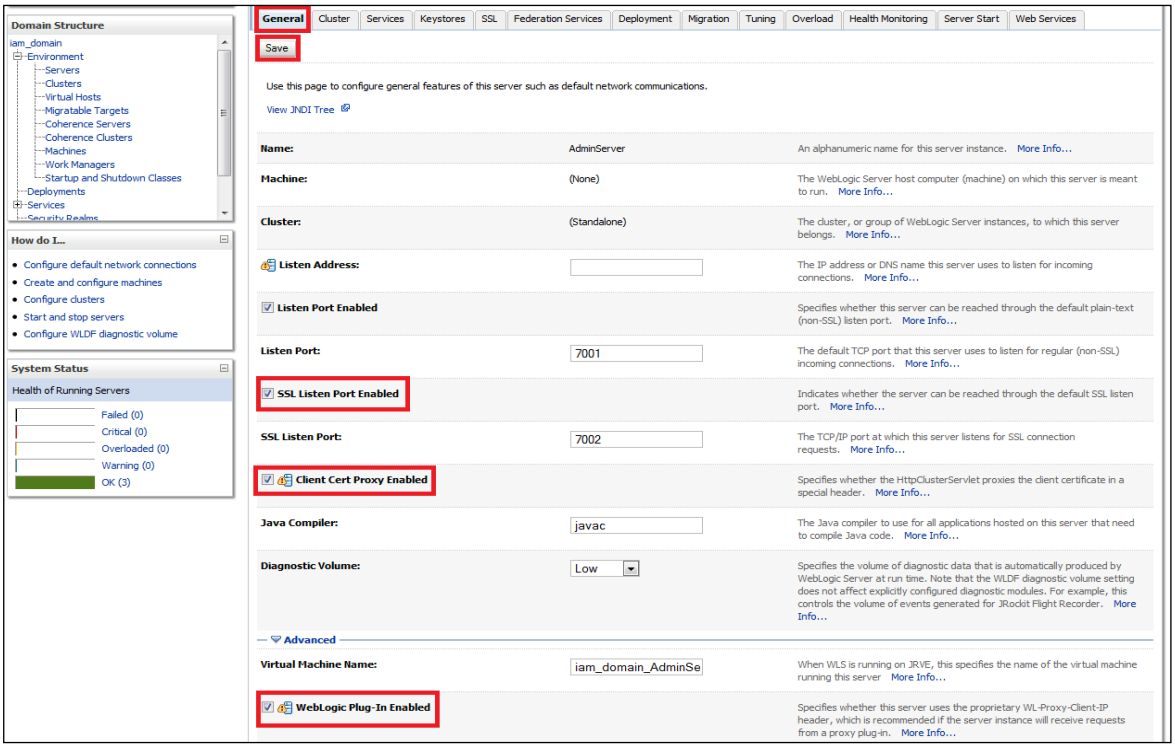
After domain creation, follow the below steps to enable SSL in Weblogic Admin server, OIM Server and SOA Server.

Select Admin Server to enable SSL options.



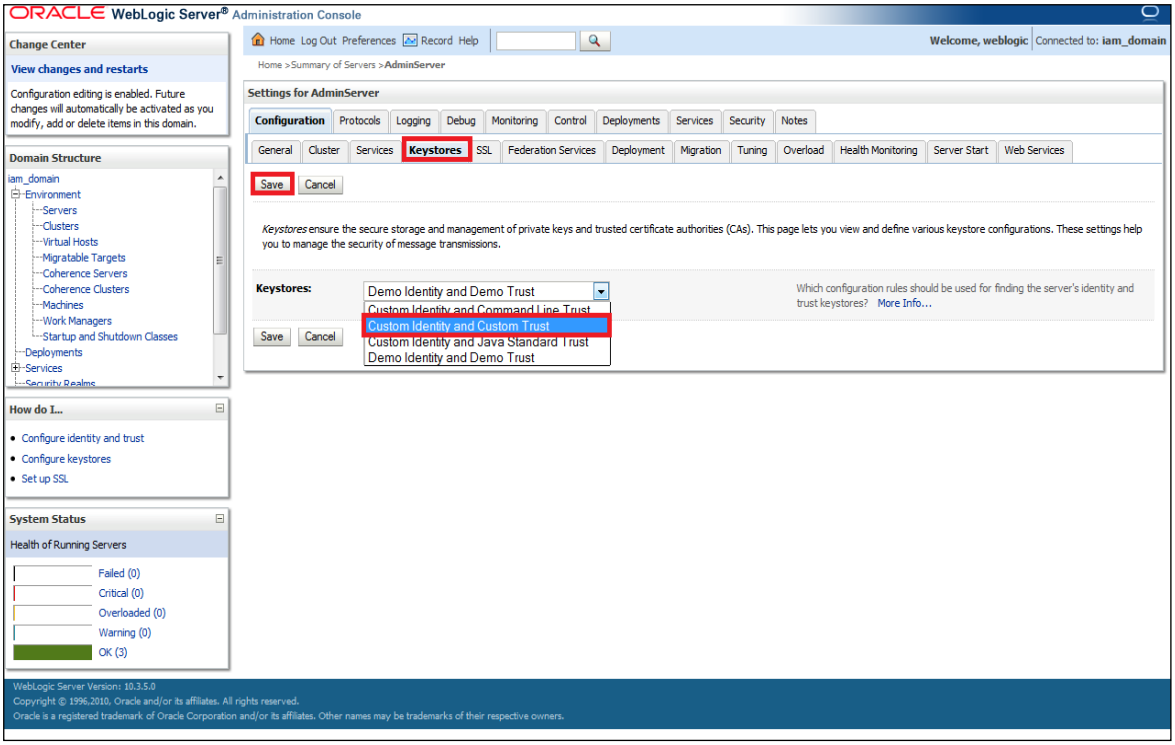

Follow the steps in General Tab as shown below:

1. Select SSL Listen Port Enabled, Client Cert Proxy Enabled, Weblogic Plug-In Enabled.
2. Click on Save.



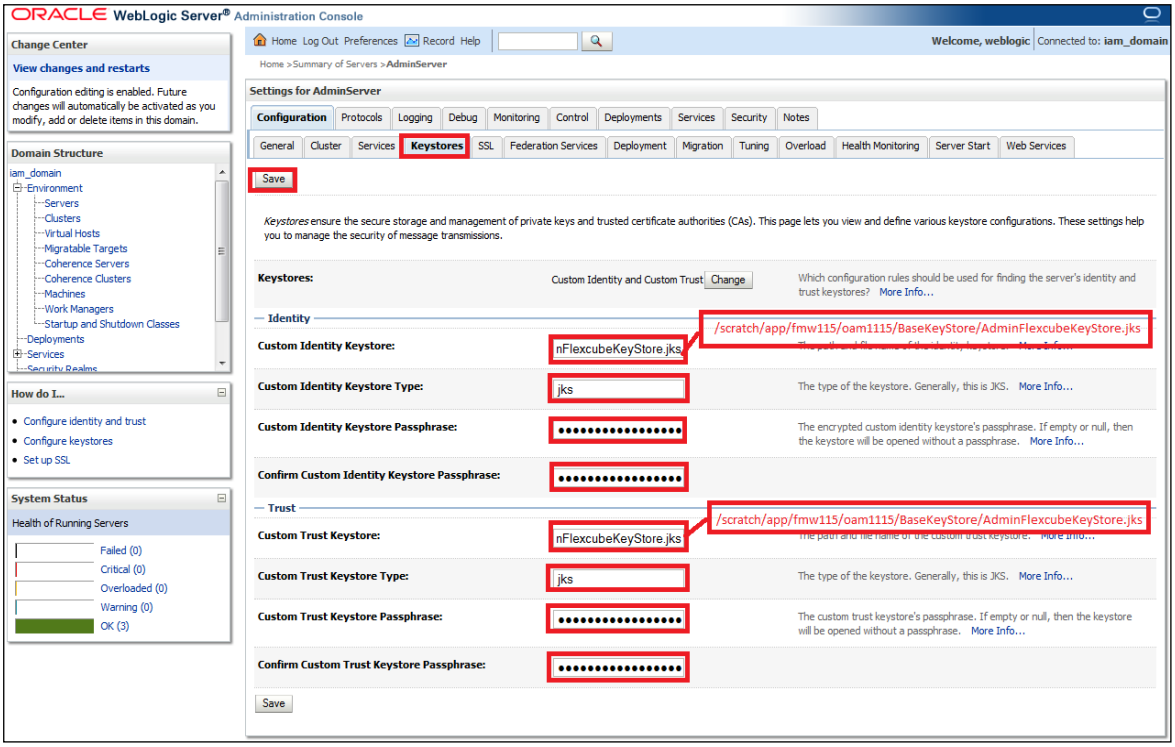

Follow the steps in Keystores Tab as shown below:

1. Click Change and select Keystores as **Custom Identity and Custom Trust**
2. Click on Save
3. Note: Keystores as **Custom Identity and Custom Trust** is as suggested by Oracle Support Team



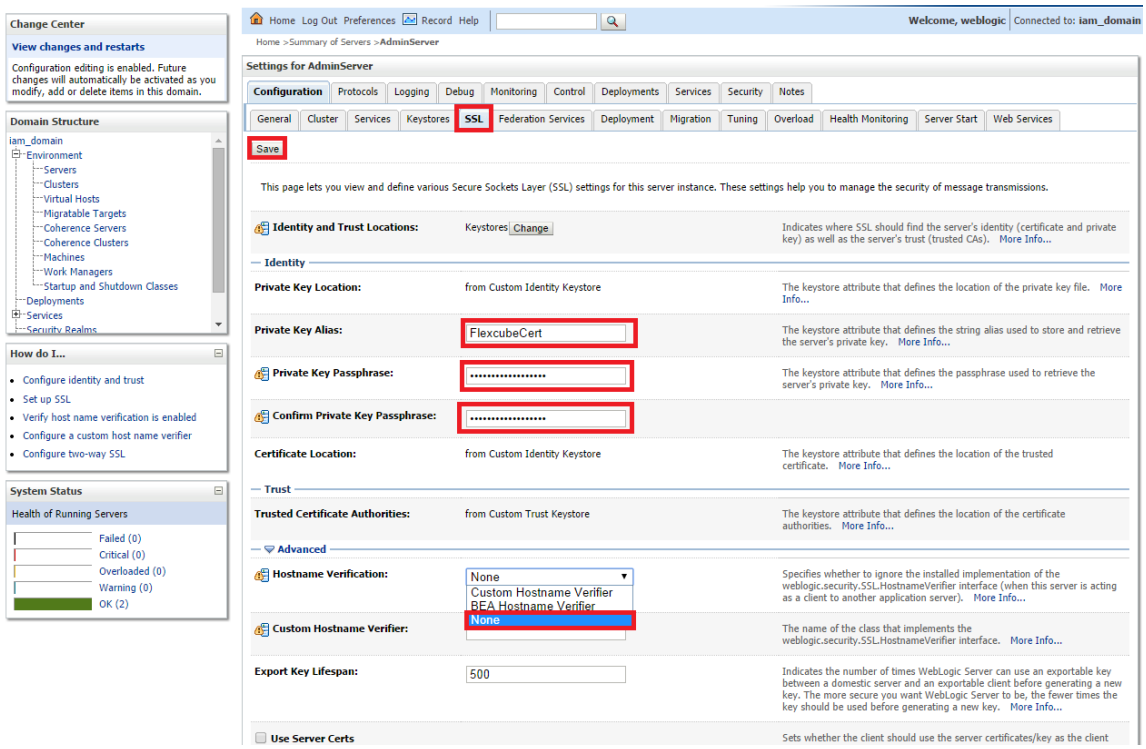
Follow the steps in Keystores Tab as shown below:

4. Enter Custom Identity Keystore and Custom Trust Keystore as same as the Keystore Name created in step 5.1.1.2 with full path.
5. Enter Custom Identity Keystore Type and Custom Trust Keystore Type as jks.
6. Enter Custom Identity Keystore Passphrase, Confirm Custom Identity Keystore Passphrase, Custom Trust Keystore Passphrase and Confirm Custom Trust Keystore Passphrase as same as the Store Password entered in step 5.1.1.2.
7. Click on Save.

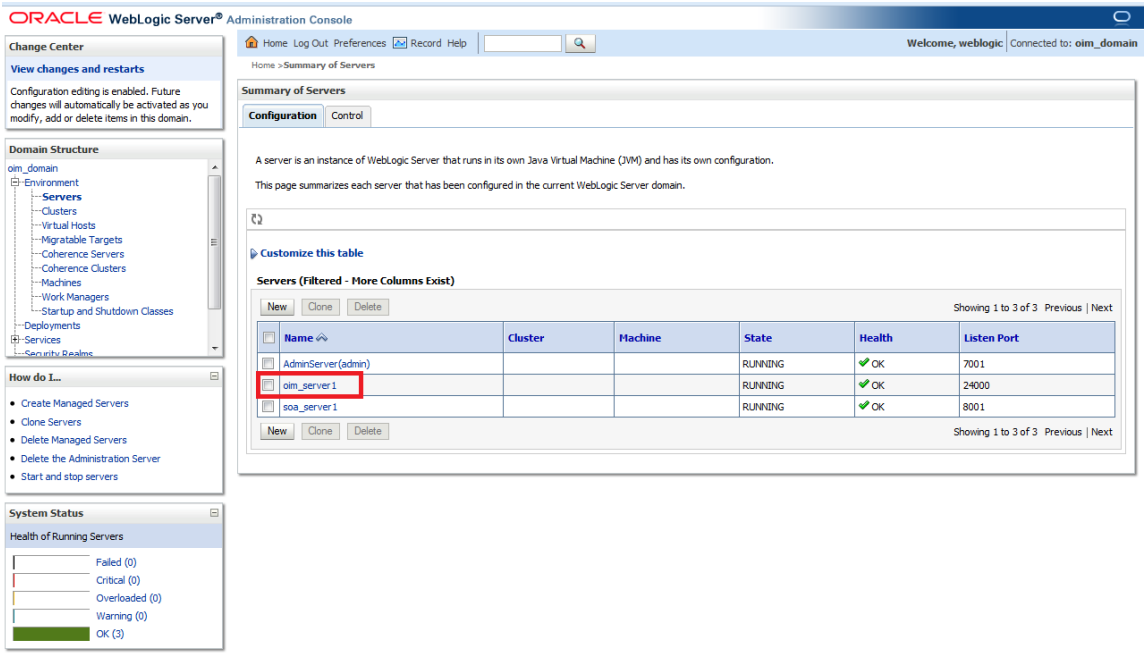



Follow the steps in SSL Tab as shown below:

1. Enter Private Key Alias as same as the alias name entered in step 5.1.1.2.
2. Enter Private Key Passphrase and Confirm Private Key Passphrase as same as the Private Key Password entered in step 5.1.1.2.
3. Change the Hostname Verification to None.
4. Click on Save.




5. Select OIM Server & SOA Server to enable SSL options and Repeat the steps performed in 5.1.1.7 to 5.1.1.10.




6. Now the admin server, oim server and soa server are SSL enabled. Restart all three servers.

## 5.1.2 Enabling SSL on GTC Connector Server

To have SSL enabled Provisioning Web Service in 5.1.5.1.4.15. We have to have a two way handshake between GTC Connector Server and the Application Server, where FCUBSProvisioningAdService web service deployed.

#### 5.1.2.1 Export the KeyStore Certificate in 5.1.1.2

keytool -export -alias <aliasname> -file <exportfilename> -keystore <keystorename> -storetype jks -storepass <keystorepassword> -provider sun.security.provider.Sun

For Example:

keytool -export -alias FlexcubeCert -file webfile.cer -keystore FlexcubeKeyStore.jks -storetype jks -storepass Password@123 -provider sun.security.provider.Sun

#### 5.1.2.2 Import the Certificate to Xellarate Key Store

keytool -import -trustcacerts -alias <aliasname> -noprompt -keystore <Domain_home>/config/fmwconfig/default-keystore.jks -file <importfilename> -storepass <keystorepassword>

For Example:

keytool -import -trustcacerts -alias FlexcubeCert -noprompt -keystore /app/Middleware/user_projects/domains/oim_domain/config/fmwconfig/default-keystore.jks -file webfile.cer -storepass Password123

Note *: <Domain_home>/config/fmwconfig/default-keystore.jks will be the KeyStore Password while configuring OIM Server. To have this feature, you should have only Weblogic Admin Server, OIM Server and SOA Server in this OIM Domain.


#### 5.1.2.3 Export Xellarate KeyStore Certificate

keytool -export -alias xell -noprompt -keystore <Domain_home>/config/fmwconfig/default-keystore.jks -file <xellexportfilename> -storetype jks -provider sun.security.provider.Sun

For Example:

keytool -export -alias xell -noprompt -keystore /app/Middleware/user_projects/domains/oim_domain/config/fmwconfig/default-keystore.jks -file xellcertificate.cer -storetype jks -provider sun.security.provider.Sun

### 5.1.2.4 Import the Xellarate Certificate to KeyStore Created in 5.1.1.2

keytool -import -alias <aliasname> -trustcacerts -file <xellimportfilename> -keystore <keystorename> -storetype jks -storepass <keystorepassword> -provider sun.security.provider.Sun

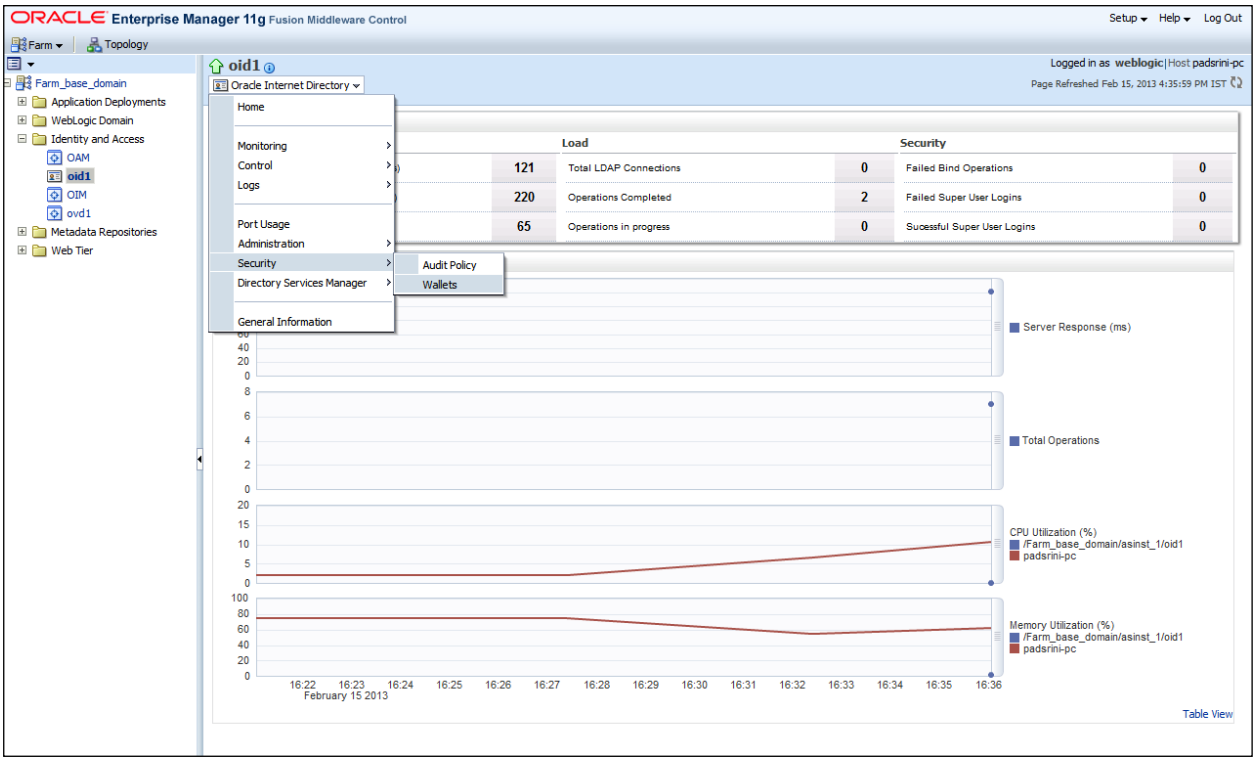
For Example:

keytool -import -alias xellcertificate -trustcacerts -file xellcertificate.cer -keystore FlexcubeKeyStore.jks -storetype jks -storepass Password@123 -provider sun.security.provider.Sun

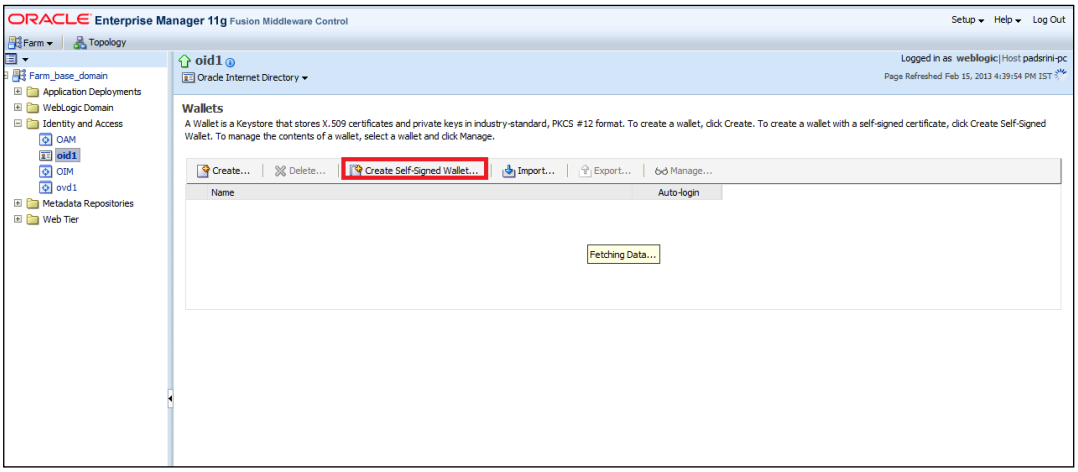
## 5.1.3 Configuring SSL Mode in Oracle Internet Directory

To enable SSL for OID LDAP Server refer and follow the below steps.

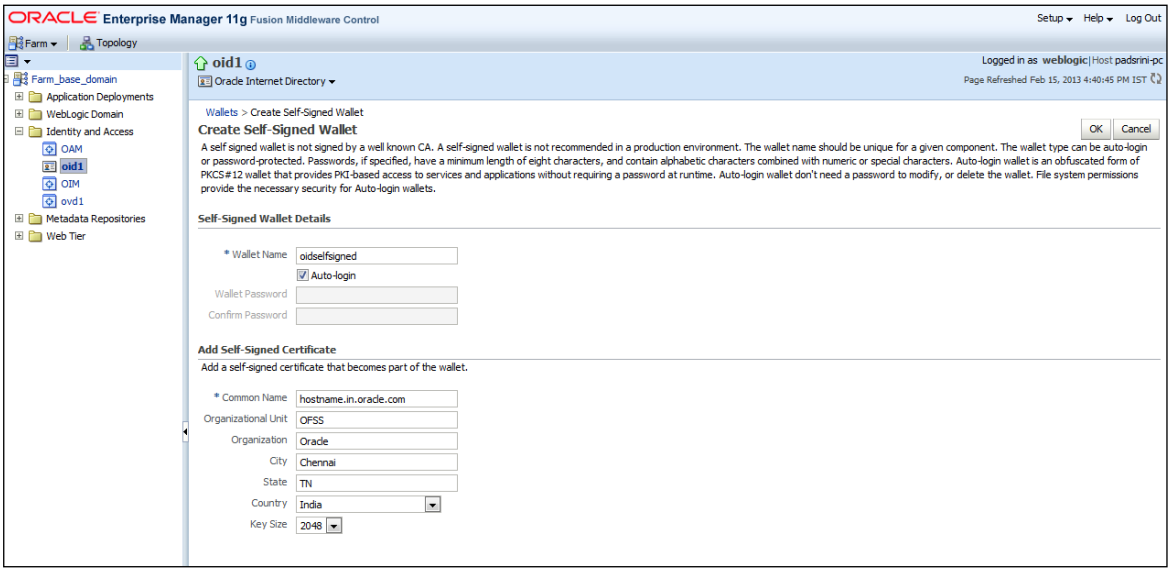
1. Login to the Enterprise Manager Console of the domain, in which Oracle Internet Directory is associated.

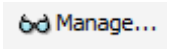



2. Click on Create Self-Signed Wallet.


ORACLE Enterprise Manager 11g Fusion Middleware Control
Setup
Help
Log Out
Farm
Topology
Farm_base_domain
Application Deployments
WebLogic Domain
Identity and Access
OAM
oid1
OIM
ovd1
Metadata Repositories
Web Tier
oid1
Oracle Internet Directory
Logged in as weblogic | Host padsrini-pc
Page Refreshed Feb 15, 2013 4:39:54 PM IST
Wallets
A Wallet is a Keystore that stores X.509 certificates and private keys in industry-standard, PKCS #12 format. To create a wallet, click Create. To create a wallet with a self-signed certificate, click Create Self-Signed Wallet. To manage the contents of a wallet, select a wallet and click Manage.
Create...
Delete...
Create Self-Signed Wallet...
Import...
Export...
Manage...
Name
Auto-login
Fetching Data...

3. Enter the Details as below & Click on OK.




4. Click on 

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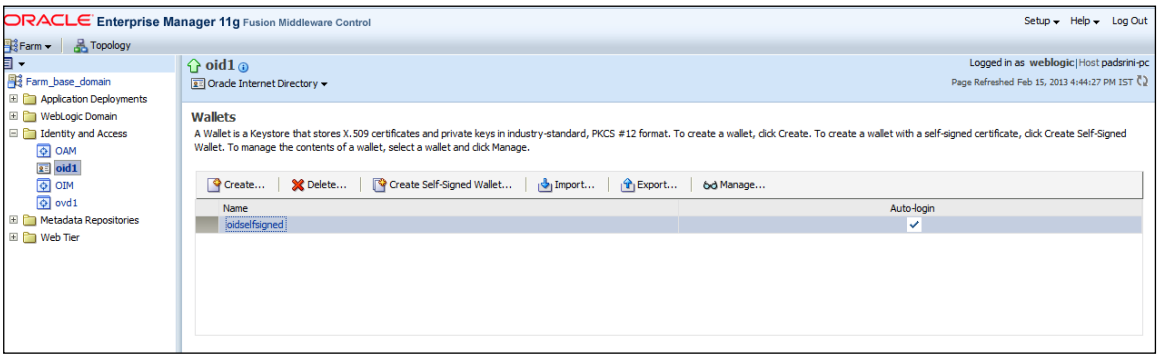
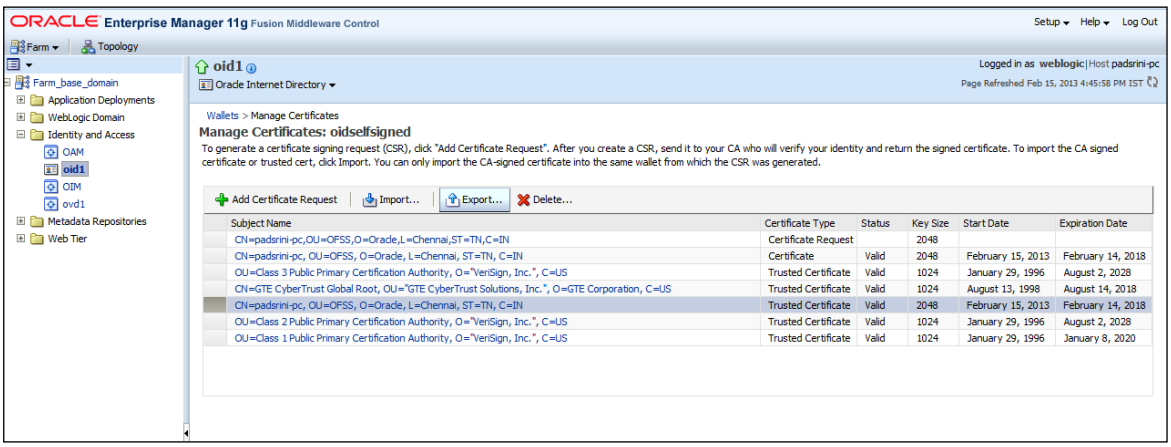
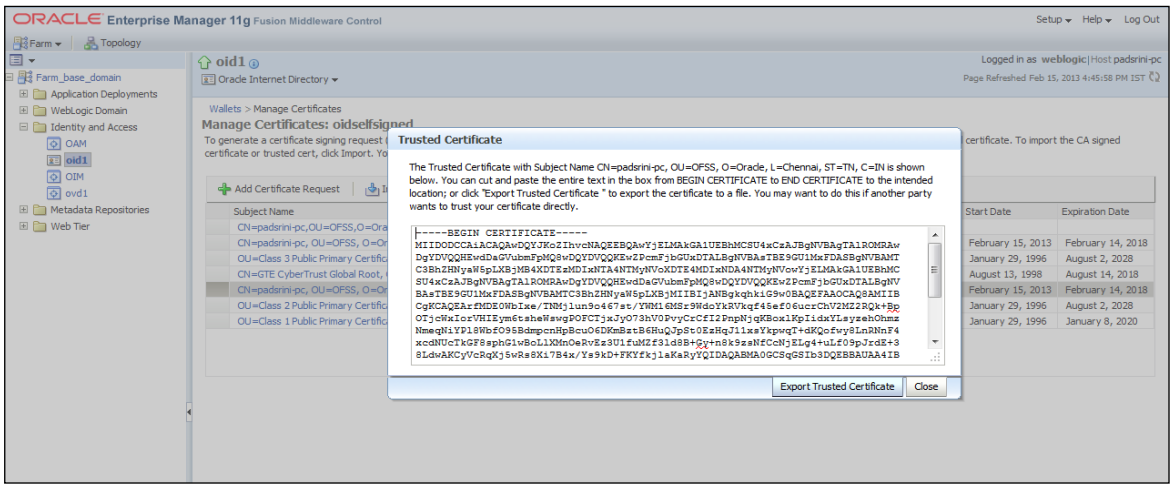


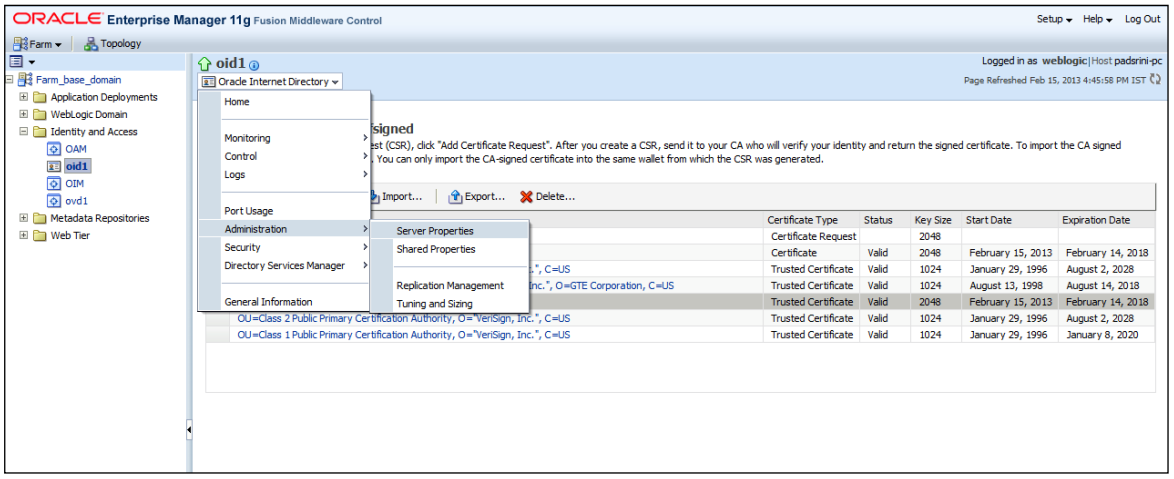

5. Select the Trusted Certificate & Click on Export.



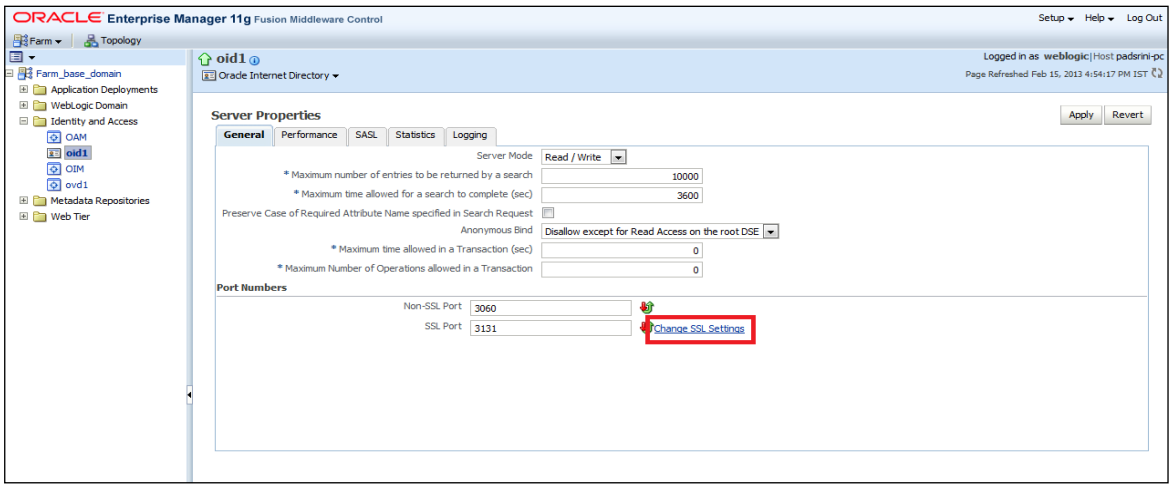

6. Click Export Trusted Certificate and save the certificate file.



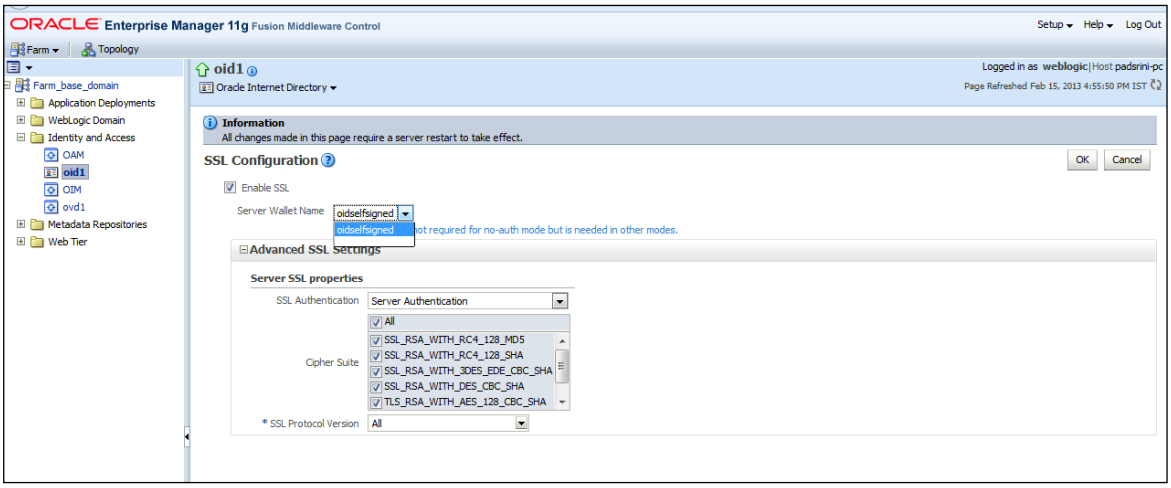

7. Click on Server Properties.



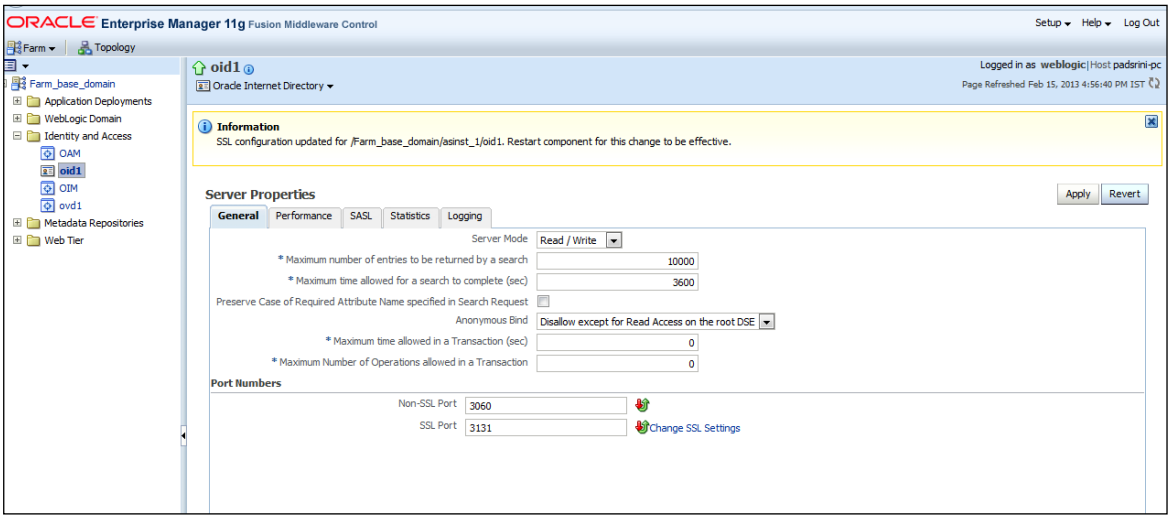

8. Click on Change SSL Settings.




9. Select the Wallet, SSL Authentication as Server Authentication, Cipher Suite, SSL Protocal Version as below & Click on OK.




10. Click on Apply.




### 5.1.3.1 Import LDAP Server SSL Certificate into OIM Server

Import the Exported Certificate into **wlserver_10.3/server/lib/DemoTrust.jks** of OIM Server Domain using the below command [ Store Password is **DemoTrustKeyStorePassPhrase** ]

keytool -import -keystore MW_HOME/wlserver_10.3/server/lib/DemoTrust.jks -file /home/testoc4j/OIM/globalv.crt -storepass DemoTrustKeyStorePassPhrase

Restart Both OID & OIM Server.

## 5.1.4 OIM FLEXCUBE Adapter Setup

**Prerequisite:** Gateway EJB component

OIM FCUBS adapter consists of two web services:

- FCUBSLOVAdService : To fetch list of values from FCUBS Database
- FCUBSProvisioningAdService: To handle OIM's request and response for user provisioning and de-provisioning services. This web service requires FCUBS Gateway EJB either on same Weblogic Application server or another. If it is on same Weblogic Application server then this web service is deployed as child of Gateway EJB.

OIM FCUBS adapter setup is all about deployment of these web services on Oracle Fusion Middleware 11g Release 2 (11.1.2.2.0).

#### 5.1.4.1 Environment Setup

The following steps to be followed to do the initial environment setup for OIM FCUBS adapter deployment:

***1.*** Copy following folders from the Kernel Vercon Software Release area

- <FCUBS Release Name>\ADAPTERS\OIM\FCUBSLOVAdService
- <FCUBS Release Name>\ADAPTERS\OIM\FCUBSProvisioningAdService
- <FCUBS Release Name>\ADAPTERS\OIM\setup

to local machine (say ***D:\OIM*** for WINDOWS or ***/home/kernel/OIM*** for UNIX).

Note: If Gateway EJB server and OIM server is on same system, then copy entire folder from Kernel VERCON software release area to local machine.

In this document SPMLADAPTER_INSTALL_DIR specifies the directory where adapter will be installed.

e.g.

For WINDOWS:

SPMLADAPTER_INSTALL_DIR=D:\

For UNIX:

SPMLADAPTER_INSTALL_DIR=/home/kernel/

OIM_SERVER_INSTALL_DIR specifies the OIM server installation directory (like D:\Oracle\Middleware\weblogic\Oracle_IDM1 in windows or /Oracle/Middleware/weblogic/ Oracle_IDM1 in unix).

***2.*** Create a Data source in WebLogic Server Version: 10.3.6.0.

[Refer Appendix 8.1 Data Source Creation]

3. Modify configuration files as below :

Edit **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\src\webcontent\WEB-INF\web.xml**. This XML file shall have a similar section as the one shown below (Change the values given in bold)

```
<resource-ref>
                <res-ref-name>OIMLOVSQA</res-ref-name>
                      <res-type>javax.sql.DataSource</res-type>
                <res-auth>Container</res-auth>
</resource-ref>
```

```
<env-entry>

        <description>Property File Path</description>

        <env-entry-name>propertyPath</env-entry-name>

        <env-entry-type>java.lang.String</env-entry-type>

        <env-entry-value>D:/OIM/FCUBSLOVAdService/config/</env-entry-value>

</env-entry>
```

**Edit resource-ref section**: Mention the JNDI name of the Datasource created in Application server for FLEXCUBE UBS Messaging Database Layer Instance at step 3 as res-ref-name.

**Edit Property File Path**: Give the absolute path for lookup_prop.xml as env-entry-value. Ideally, this file is residing in < SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\config.

Note: Give "/" for at the end of the path. Also, note that as separator forward slash has been used instead of backward.

Edit <SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\config\lookup_prop.xml. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

```
<!--  DataBase Connection -->

      <add key="FCUBS_CON_POOLNAME" value="OIMLOVSQA"/>

<!--  DataBase Connection -->

<add key="LOGGER_PATH"
value="D:/OIM/FCUBSLOVAdService/config/lookup_logger.xml"/>
```

**Edit FCUBS_CON_POOLNAME:** Give the same Datasource JNDI name mentioned in above web.xml for FLEXCUBE UBS Messaging Database Layer Instance.

**Edit LOGGER_PATH:** Give the logging configuration absolute path for lookup_logger.xml. This file is residing in **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\config** folder.

**Note: As separator use forward slash instead of backward slash.**

Edit **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\config\lookup_logger.xml**. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

```
 <add key="ADOIM.LOGGER.FPATH" value="D:/OIM/FCUBSLOVAdService/log/"/>
```

ADOIM.LOGGER.FPATH: Give the absolute path where log files will be stored. It is recommended that mention the following path <SPMLADAPTER_INSTALL_DIR>/OIM/FCUBSLOVAdService/log/

Note: As separator use forward slash instead of backward slash. Give "/" for at the end of the path.

Edit **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSProvisioningAdService\src\webcontent\WEB-INF\web.xml**. This XML file shall have a similar section as the one shown below (Change the values given in bold)

```
<ejb-ref>

    <ejb-ref-name>GWEJB_GW_EJB_Bean</ejb-ref-name>

    <ejb-ref-type>Session</ejb-ref-type>

    <home>com.iflex.fcubs.gw.ejb.GWEJBRemoteHome</home>

    <remote>com.iflex.fcubs.gw.ejb.GWEJBRemote</remote>

 </ejb-ref>

<env-entry>

        <description>Property File Path</description>

        <env-entry-name>propertyPath</env-entry-name>

        <env-entry-type>java.lang.String</env-entry-type>

        <env-entry-value>D:/OIM/FCUBSProvisioningAdService/config/</env-
entry-value>

</env-entry>
```

**Edit ejb-link:** To refer Gateway EJB from the web service locally the reference of Gateway EJB has been defined in this deployment descriptor file. Give the Gateway EJB name here as ejb-link, mentioned as ejb-name in ejb-jar.xml deployment descriptor file of Gateway EJB**.**

**Edit Property File Path:** Give the absolute path for ADOIM_Prop.xml as env-entry-value. This file is residing in **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSProvisioningAdService\config.**

**Note: Give "/" for at the end of the path. Also, note that as separator forward slash has been used instead of backward.**

Edit **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\config\ADOIM_Prop.xml**. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

```
      <add key="GW_EJB_JNDI_NAME" value="GWEJB/ejb/GW_EJB_Bean"/>

      <add key="GW_EJB_CALL_TYPE" value="REMOTE"/>

       <add key="GW_EJB_CTX_FACTORY"
value="weblogic.jndi.WLInitialContextFactory"/>

      <add key="GW_EJB_SERVER_URL" value="t3://localhost:7101"/>

      <add key="GW_EJB_SECURITY_PRINCIPAL" value=""/>

      <add key="GW_EJB_SECURITY_CREDENTIALS" value=""/>
```

Edit GW_EJB_JNDI_NAME: Give the Gateway EJB JNDI name.

Edit GW_EJB_CALL_TYPE: Give the LOCAL or REMOTE (must be in Upper Case) based on the way EJB is to be referred from web service. If FCUBS Gateway EJB is deployed on same Weblogic Application server then it should be REMOTE.

Edit GW_EJB_SERVER_URL: Give the application server URL where Gateway EJB is deployed.

Following are the parts that make this URL:

t3s://HOSTNAME:Port/GW_EJB_Bean

Protocol Host Name Weblogic Port EJB Name

**Protocol**: This should be t3 as in WebLogic application server.

**Server URL**: This should be the IP address or fully qualified computer name (i.e. <computer name>.<domain>) of the system where the application server is running on which Gateway EJB has been deployed.

**Port**: This should be the same as **request port** mentioned in domain.xml file.

**EJB Name**: This should be the name of the Gateway EJB name (given in ejb-jar.xml as ejb-name tag value).

Edit following section in the **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\config\ADOIM_Prop.xml** file: (Change the values given in bold )

```
      <add key="MAKER_ID" value="OIMUSER9"/>

      <add key="HEAD_OFFICE" value="CHO"/>

      <add key="REQ_SOURCE" value="IDM"/>

      <add key="UBS_OR_IS" value="FCUBS"/>



      <add key="LOGGER_PATH"

      value="D:/OIM/FCUBSProvisioningAdService/config/adoim_logger.xml"/>

      <add key="FCUBS_SPML_ERROR_FILE"

      value="D:/OIM/FCUBSProvisioningAdService/config/
FCUBS_SPML_ERROR.properties"/>

      <add key="ADOIM_MSG_LOGGING_ENABLED" value="N"/>

      <add key="ADOIM_MSG_LOGGING_PATH"

      value="D:/OIM/FCUBSProvisioningAdService/log/"/>
```

**Edit MAKER_ID:** Give FCUBS user id that can serve as maker id for all OIM requests**.** Please ensure that this id should be a valid user in FCUBS and should have rights for creating, authorizing and modifying user.

**Edit HEAD_OFFICE:** Give the head office branch code.

**Edit REQ_SOURCE:** Give the external source name. Please ensure that maintenance of this external source has been done in FCUBS.

**Edit UBS_OR_IS:** Give the application name to which the user need to be provisioned. The value will be either FCUBS or FCIS.

Edit LOGGER_PATH: Give the logging configuration absolute path for adoim_logger.xml. This file is residing in <SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSProvisioningAdService\config folder.

Edit FCUBS_SPML_ERROR_FILE: Give the absolute path for fcubs_spml_error.properties. This file is residing in < SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSProvisioningAdService\config folder.

**Edit ADOIM_MSG_LOGGING_ENABLED:** Give 'Y' if OIM request and response message is required to be stored separately otherwise give 'N".

**Edit ADOIM_MSG_LOGGING_PATH:** Give the absolute path where OIM request–response will get stored.

Note: As separator use forward slash instead of backward slash. Give "/" for at the end of the path.

Edit <SPMLADAPTER_INSTALL_DIR>\OIM\ FCUBSProvisioningAdService\config\adoim_logger.xml. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

<add key="ADOIM.LOGGER.FPATH" value="**D:/OIM/FCUBSProvisioningAdService /log/**"/>

**Edit ADOIM.LOGGER.FPATH: Give the absolute path where log files will be stored. It is recommended that mention** the following path **<SPMLADAPTER_INSTALL_DIR>/OIM/ FCUBSProvisioningAdService/log/**

**Note: As separator use forward slash instead of backward slash. Give "/" for at the end of the path.**

#### 5.1.4.1.1 Building the Deployment Units for WINDOWS

1. Building FCUBSLOVAdService.ear
   - Edit <SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\setup\WEBLOGIC\ build.xml to set {server_home} entry to Weblogic Server installed directory

     Eg: D:\Middleware\wlserver_10.3
   - Open a DOS command-prompt and change directory to, D:\OIM\FCUBSLOVAdService\
   - Set PATH to JDK\bin and ANT\bin in the command prompt
   - Set JAVA_HOME
   - Change the directory to D:\OIM\FCUBSLOVAdService\setup\WEBLOGIC
   - To execute the build file, type "ant" on the command-prompt and press enter.

     Above step creates an EAR file in D:\OIM\FCUBSLOVAdService\build with the name FCUBSLOVAdService.ear
2. Building FCUBSProvisioningAdService.ear

- Edit **<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSProvisioningAdService\setup\WEBLOGIC\build.xml** to set {server_home} and {JAVA_HOME} entry to Weblogic Server installed directory and JDK Installed directory.

  Eg: D:\Middleware\wlserver_10.3

  C:\Program Files\java\jdk1.7.0_51

- Change directory to, D:\OIM\FCUBSProvisioningAdService\setup\WEBLOGIC
- To execute the build file, type “ant” on the command-prompt and press enter.

Above step creates an EAR file in build D:\OIM\FCUBSProvisioningAdService folder with the name FCUBSProvisioningAdService.ear

#### 5.1.4.1.2 Building the Deployment Units for UNIX / Linux

1. Building FCUBSLOVAdService.ear
   - Modify {server_home} entry in the build.xml to where Weblogic Server is installed ( for example /home/kernel/Middleware/wlserver_10.3 )
   - Open a UNIX shell prompt and change directory to, /home/OIM/FCUBSLOVAdService
   - Set PATH environment variable with JDK/bin path and ANT\bin path in the command prompt.
   - Change the directory to <SPMLADAPTER_INSTALL_DIR>/FCUBSLOVAdService/setup/WEBLOGIC
   - To execute the build file, type “ant” on the shell prompt and press enter.

   Above step creates an EAR file in /home/kernel/OIM/FCUBSLOVAdService/build folder with the name FCUBSLOVAdService.ear

2. Building FCUBSProvisioningAdService.ear
   - Edit <SPMLADAPTER_INSTALL_DIR>/OIM/FCUBSProvisioningAdService/setup/WEBLOGIC/build.xml to set {server_home} entry to Weblogic Server installed directory

     Eg: home/Oracle/Middleware/wlserver_10.3

     home/java/jdk1.7.0_51

   - Change directory to, /home/kernel/OIM/FCUBSProvisioningAdService/setup/WEBLOGIC
   - To execute the build file, type “ant” on the command-prompt and press enter.

   Above step creates an EAR file in /home/kernel/OIM/FCUBSProvisioningAdService/build folder with the name FCUBSProvisioningAdService.ear

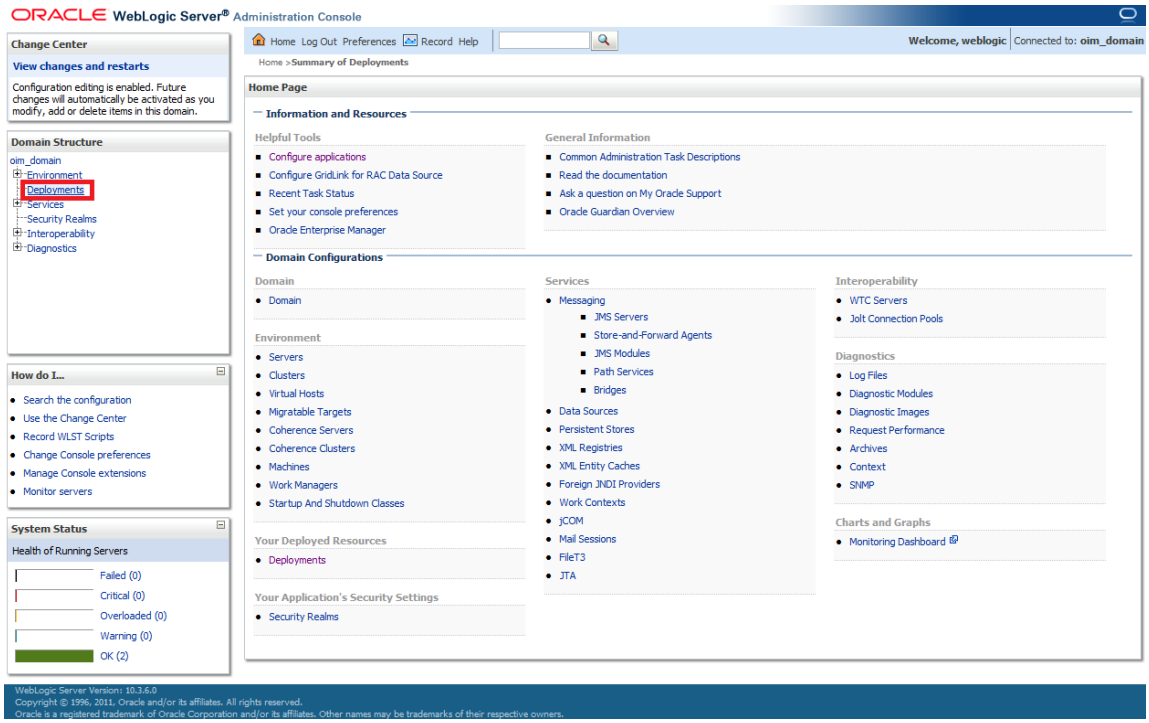
## 5.1.4.2 Deployment

### Deploy FCUBSLOVAdService

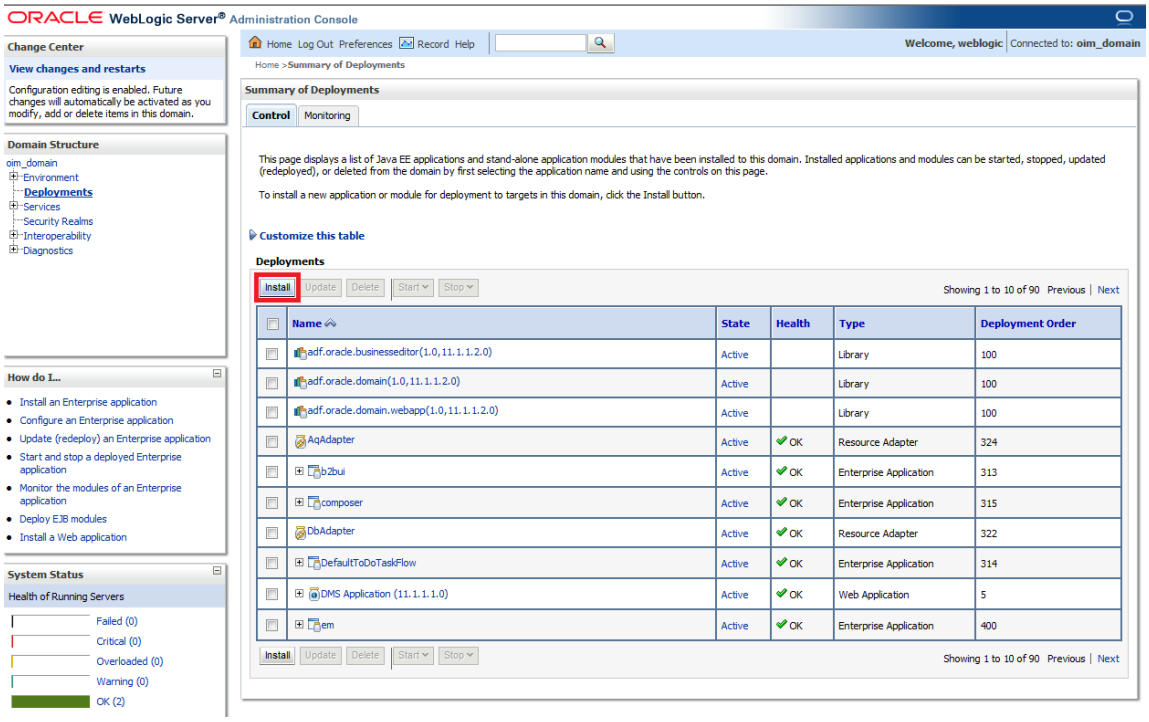
***1.*** Login to Administrative Console

2. Enter Weblogic administrator username/password and press **Login.**


3. Click on Deployments as shown in below screen.

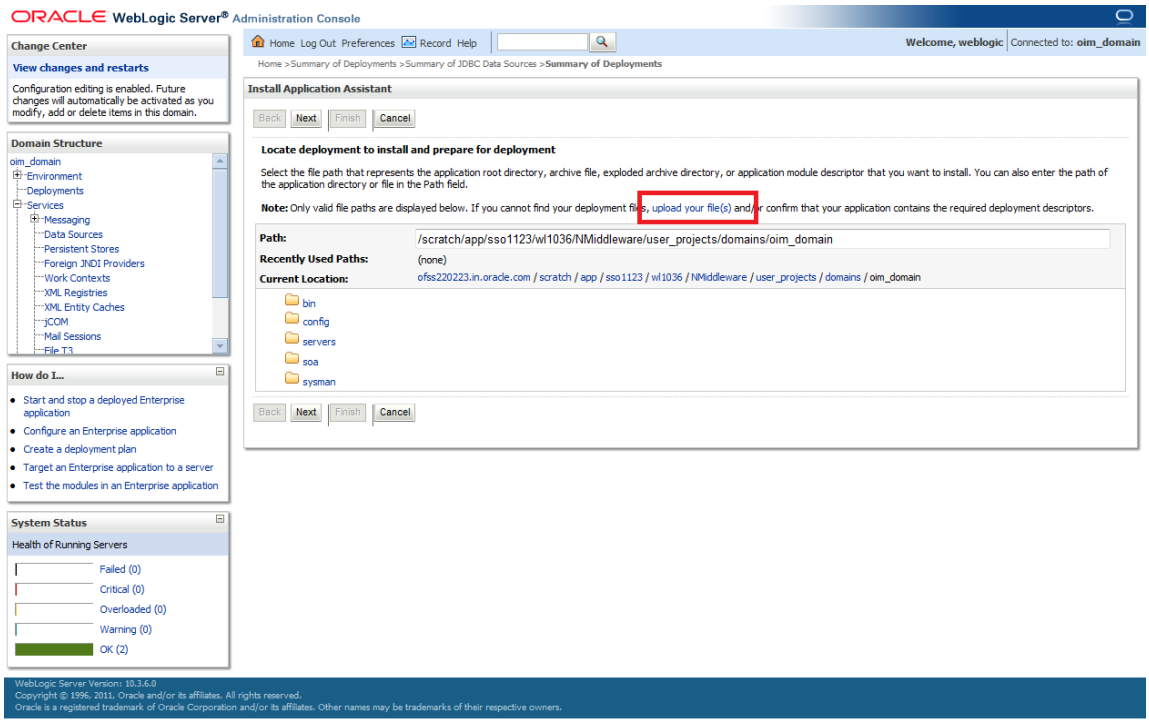


4. Click on the Install as shown below.




***5.*** The following screen is displayed.

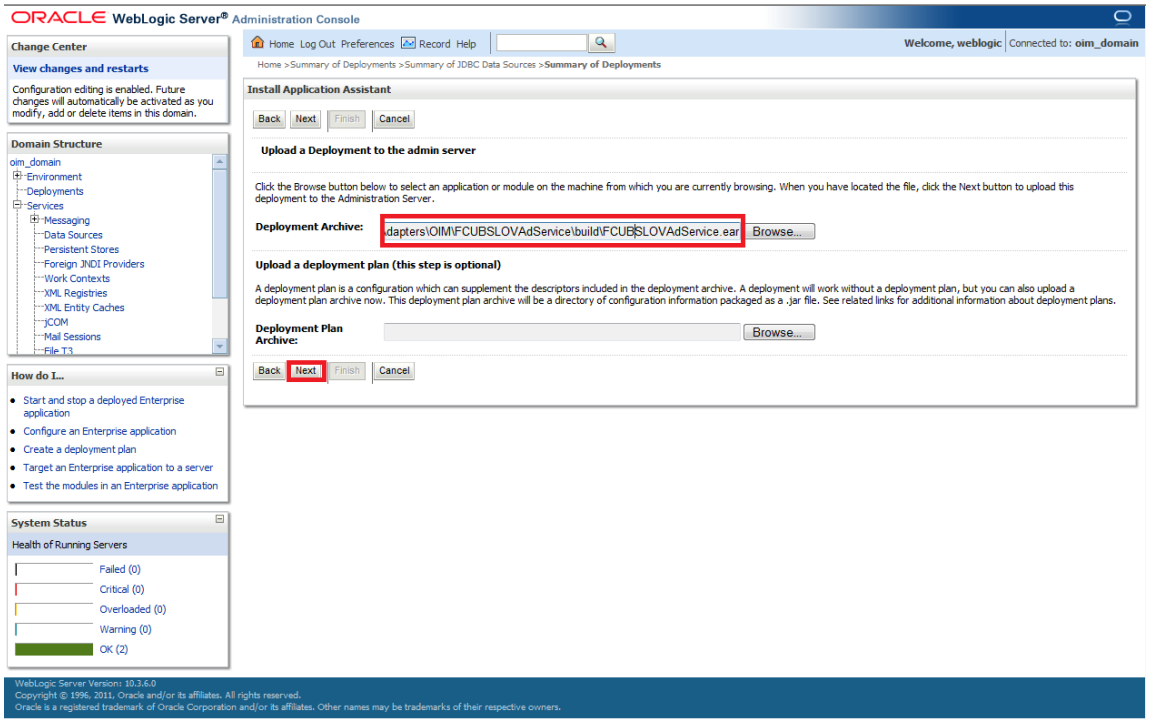
6. Click on upload your file(s)




7. Choose the enterprise archive file from the build path:

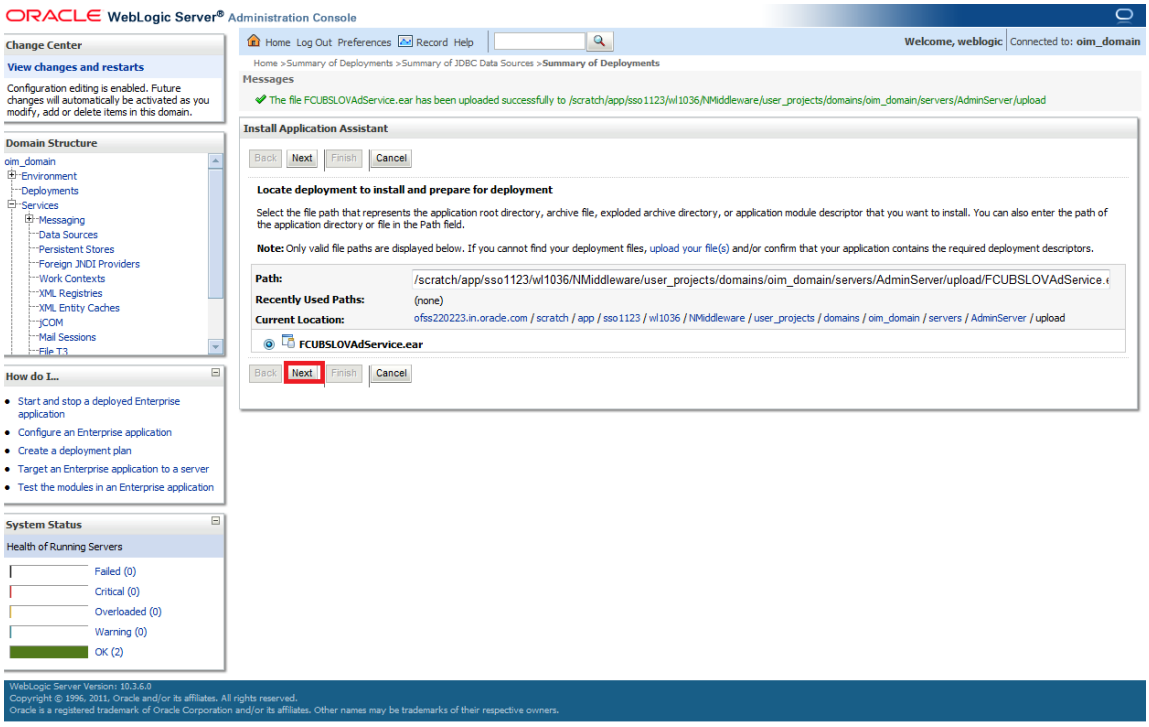
<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\build\

8. Click on Next




***9.*** Select the enterprises archive file FCUBSLOVAdService.ear

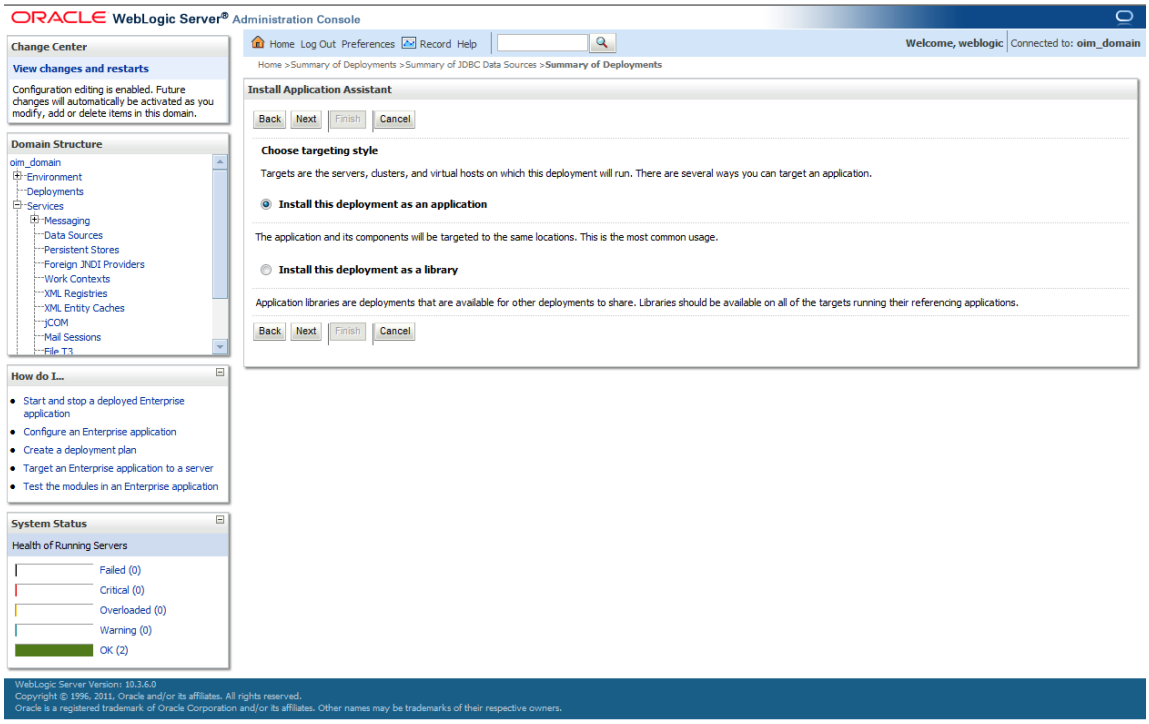
10. Click on Next



***11.*** The following screen is displayed.

12. Select – Install this deployment as an application.

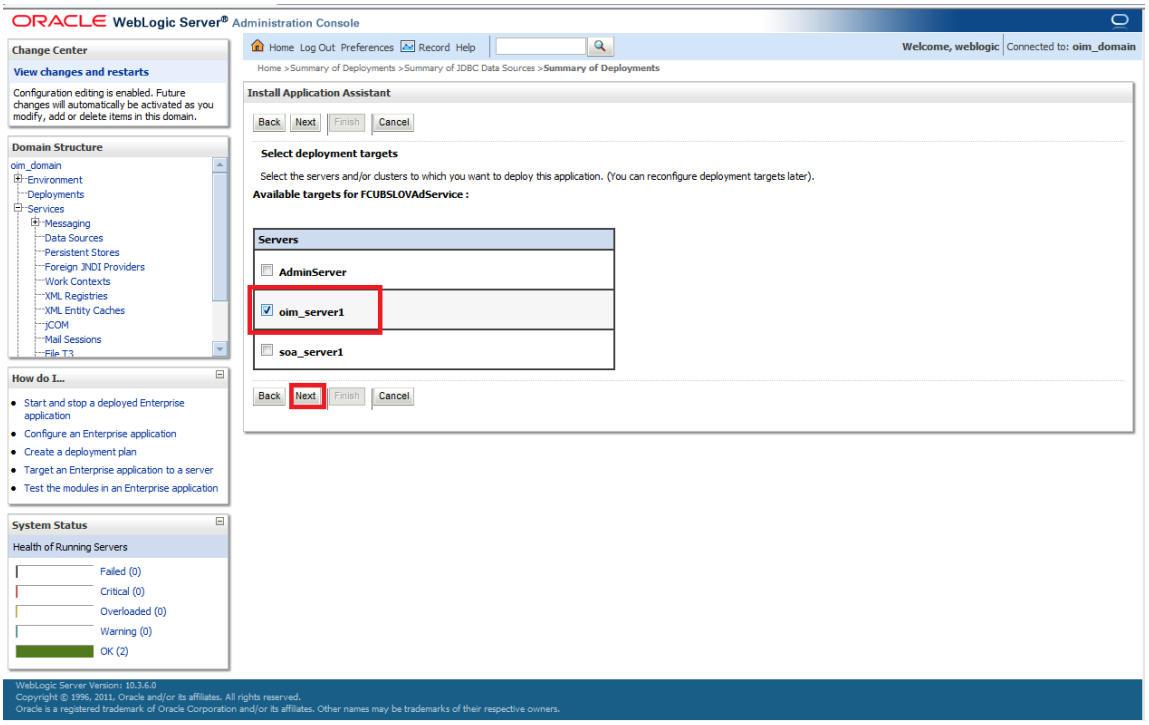
13. Click on Next.




***14.*** The following screen is displayed.

15. Select the Application Server Instance in which the FCUBSLOVAdService needs to be deployed.

16. Click on Next.


ORACLE WebLogic Server® Administration Console
Change Center
View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.
Domain Structure
oim_domain
Environment
Deployments
Services
Messaging
Data Sources
Persistent Stores
Foreign JNDI Providers
Work Contexts
XML Registries
XML Entity Caches
jCOM
Mail Sessions
File T3
How do I...
Start and stop a deployed Enterprise application
Configure an Enterprise application
Create a deployment plan
Target an Enterprise application to a server
Test the modules in an Enterprise application
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (2)
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: oim_domain
Home >Summary of Deployments >Summary of JDBC Data Sources >Summary of Deployments
Install Application Assistant
Back Next Finish Cancel
Select deployment targets
Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later).
Available targets for FCUBSLOVAdService :
Servers
AdminServer
oim_server1
soa_server1
Back Next Finish Cancel
WebLogic Server Version: 10.3.6.0
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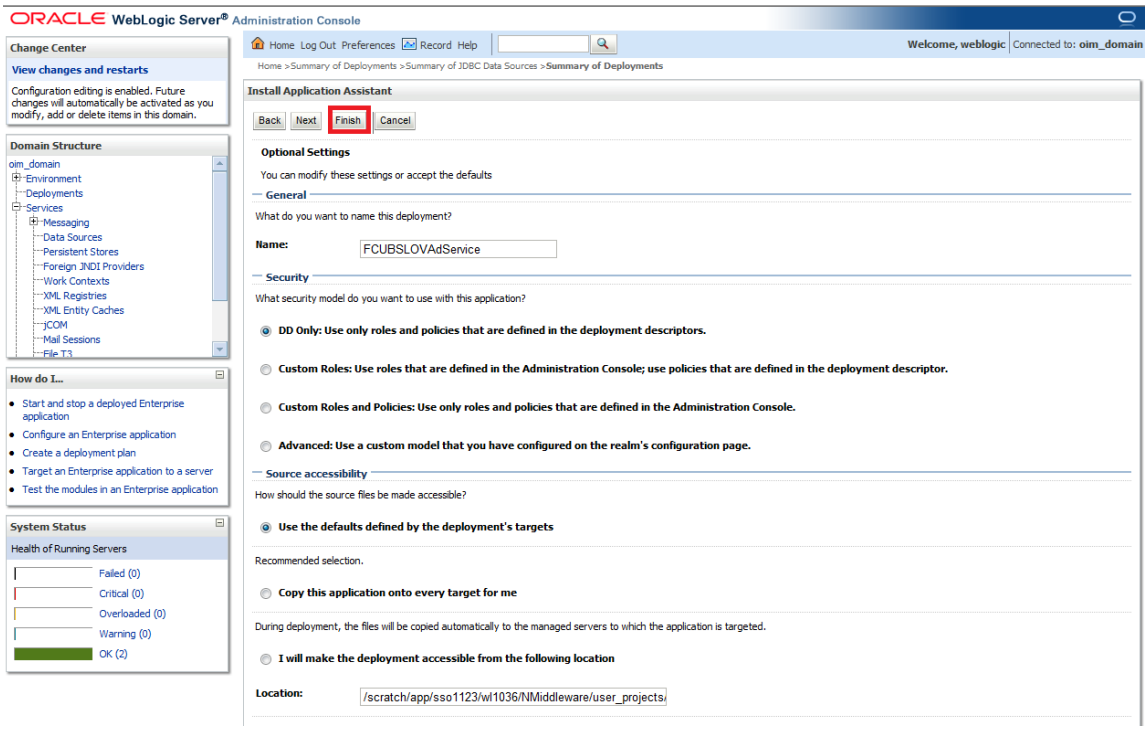
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

ORACLE

***17.*** The following screen is displayed.

18. Click on Finish.




## 5.1.4.2.1 Deploy FCUBSProvisioningAdService

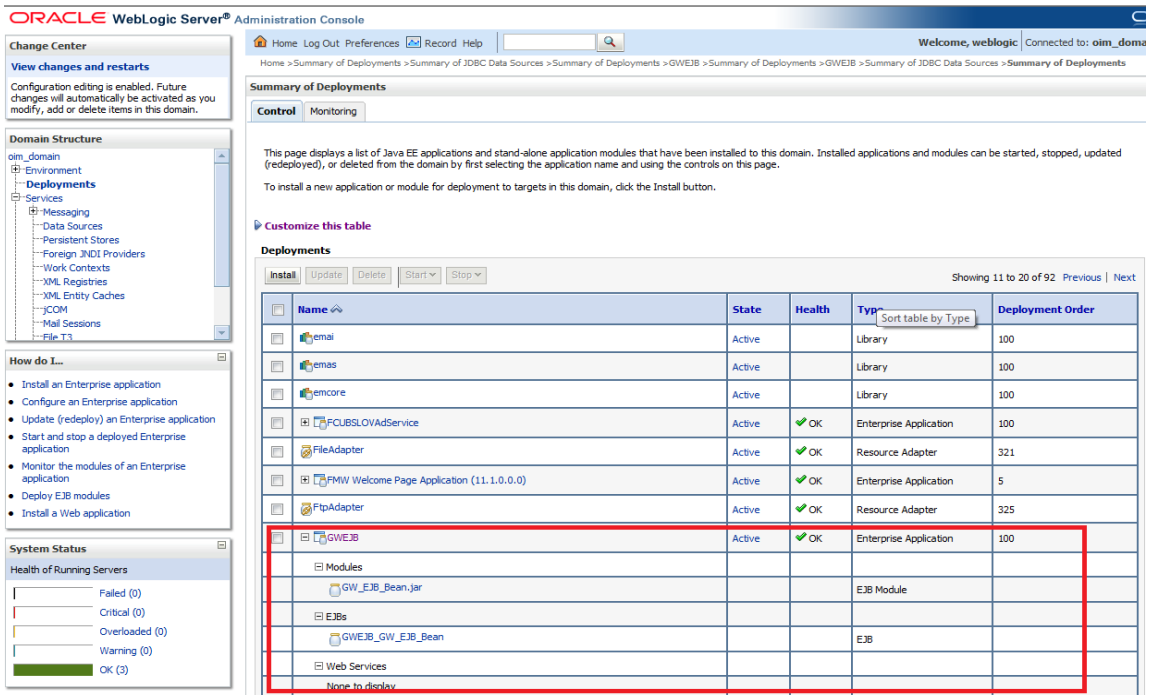
If the **GW_EJB_CALL_TYPE** is set as **REMOTE** in the **ADOIM_Prop.xml** then follow the same step as above (Section 5.1.4.2.1) to deploy the FCUBSProvisioningAdService web service with following changes

- Select the ear file from the path <SPMLADAPTER_INSTALL_DIR>\OIM\ FCUBSProvisioningAdService\build\FCUBSProvisioningAdService.ear
- Give the application name as FCUBSProvisioningAdService.

If the **GW_EJB_CALL_TYPE** is set as **REMOTE** in the **ADOIM_Prop.xml**, follow the below steps

The following screen is displayed.

1. Make sure that Gateway EJB bean has been deployed there as shown in below screen shot.



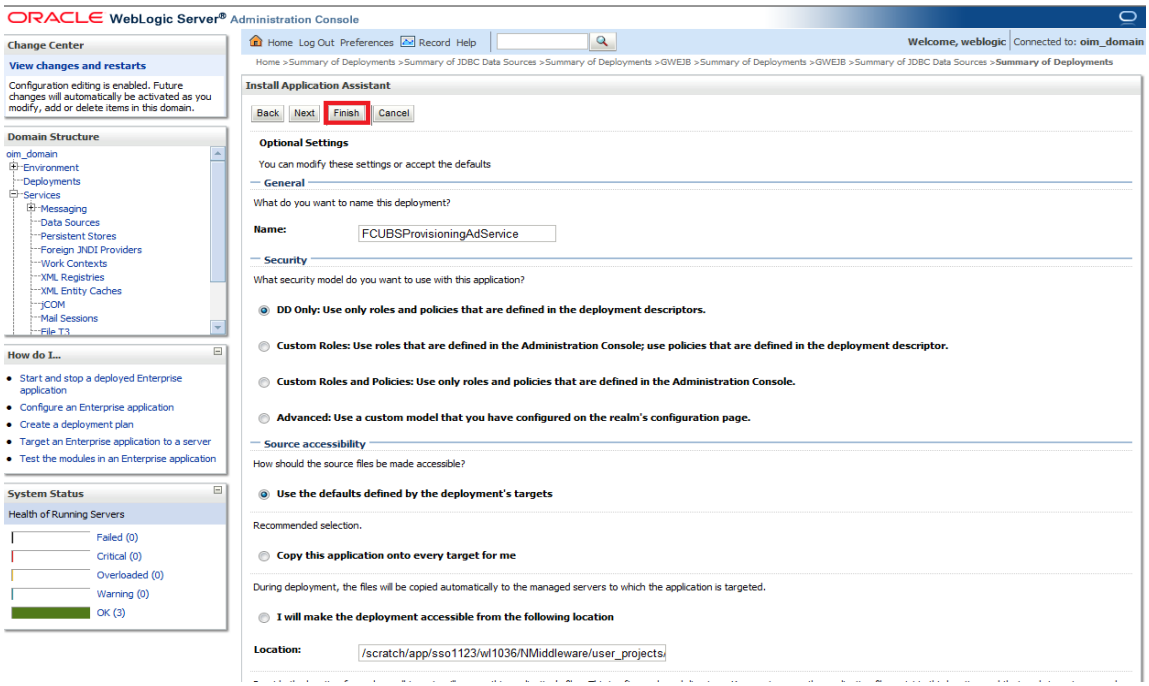

Refer 5.1.4.2.1 to know more about the deployment steps.

2. Choose the enterprise archive file Path from the build path:

   <SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSProvisioningAdService\build\

3. Select the enterprises archive file FCUBSProvisioningAdService.ear

4. Click on Finish.



### 5.1.5 OIM Setup

**Prerequisite:** Oracle Identity Server & Oracle Design Console.

OIM side setup should be done on the system where OIM server is running. This setup includes

Java code deployment of OIM's pre-populate adapter, entity adapter and schedule task & importing integration specific configuration files into OIM.

The following steps to be followed to do the initial environment setup:

1. Copy following folders from the Kernel Vercon Software Release area
   - <FCUBS Release Name>\ADAPTERS\OIM\OIM-Config
   - <FCUBS RELEASE NAME>\ADAPTERS\OIM\setup

     to local machine (say D:\OIM for WINDOWS or /home/kernel/OIM for UNIX).
2. Building the Lookup Search Scheduled Task deployment units for WINDOWS.
   - Change directory to, D:\OIM\OIM-Config\Sch-Task\setup
   - Modify the OIM_SERVER_INSTALL_DIR entry in the build.xml to where OIM Server is installed ( for example D:\Oracle\Middleware\weblogic\Oracle_IDM1) and JAVA_HOME entry.
   - In the below section of build.xml change the WSDL location hostname and port.

     <exec executable="${JAVA_HOME}/bin/wsimport">

     <arg line="-keep -p com.iflex.fcubs.integration.oim.ws.client **http://<hostname>:<port>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI?WSDL**"/>

     </exec>
   - To execute the build file, type "ant" on the command-prompt and press enter.

   Above step creates a JAR file in D:\OIM\OIM-Config\Sch-Task\build\ FCUBSLOVSchTask folder with the name **FCUBSLOVSchTask.Jar**
   - Copy this FCUBSLOVSchTask.Jar to the <OIM_SERVER_INSTALL_DIR>\server\ScheduleTask folder and <OIM_SERVER_INSTALL_DIR>\server\apps\oim.ear\APP-INF\lib
3. Building the Lookup Search Scheduled Task deployment units for UNIX
   - Change directory to /home/kernel/OIM/OIM-Config/Sch-Task/setup
   - Modify the OIM_SERVER_INSTALL_DIR entry in the build.xml to where OIM Server is installed ( for example /Oracle/Middleware/weblogic/Oracle_IDM1 ) and JAVA_HOME entry.
   - In the below section of build.xml change the WSDL location hostname and port.

     <exec executable="${JAVA_HOME}/bin/wsimport">

     <arg line="-keep -p com.iflex.fcubs.integration.oim.ws.client **http://<hostname>:<port>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI?WSDL**"/>

     </exec>
   - To execute the build file, type "ant" on the shell and press enter.

Above step creates a JAR file in /home/kernel/OIM/OIM-Config/Sch-Task/build/FCUBSLOVSchTask folder with the name **FCUBSLOVSchTask.Jar**

- Copy this FCUBSLOVSchTask.Jar to the <OIM_SERVER_INSTALL_DIR>/server/ScheduleTask folder and <OIM_SERVER_INSTALL_DIR>/server/apps/oim.ear/APP-INF/lib

***4.*** Deployment of Pre-population Adapters

Below Steps will be valid In case of different name used to create the form in 5.1.5.1.5.28

- Change the directory to

  <AdapterSource>/OIM/OIM-Config/PrePopulateAdapter

- Edit the plugin.xml and update the FlexcubeForm into the form name entered in 5.1.5.1.5.28

```
<?xml version="1.0" encoding="UTF-8" ?>
<oimplugins xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 <plugins pluginpoint="oracle.iam.request.plugins.PrePopulationAdapter">
  <plugin pluginclass="com.oracle.oim.utility.eventhandler.UserIDPrepopulateAdapter" version="1.0"
          name="UserIDPrepopulateAdapter">
   <metadata name="PrePopulationAdapater">
    <value>FlexcubeForm::USERID</value>
   </metadata>
  </plugin>
  <plugin pluginclass="com.oracle.oim.utility.eventhandler.UserNamePrepopulateAdapter"  version="1.0"
          name="UserNamePrepopulateAdapter">
   <metadata name="PrePopulationAdapater">
    <value>FlexcubeForm::USERNAME</value>
   </metadata>
  </plugin>
  <plugin pluginclass="com.oracle.oim.utility.eventhandler.UserPasswordPrepopulateAdapter" version="1.0"
          name="UserPasswordPrepopulateAdapter">
   <metadata name="PrePopulationAdapater">
    <value>FlexcubeForm::USERPASSWORD</value>
   </metadata>
  </plugin>
  <plugin pluginclass="com.oracle.oim.utility.eventhandler.EmailPrepopulateAdapter" version="1.0"
          name="EmailPrepopulateAdapter">
   <metadata name="PrePopulationAdapater">
```

```
 <value>FlexcubeForm::EMAIL</value>
 </metadata>
</plugin>
<plugin pluginclass="com.oracle.oim.utility.eventhandler.LdapUserPrepopulateAdapter" version="1.0"
        name="LdapUserPrepopulateAdapter">
 <metadata name="PrePopulationAdapater">
  <value>FlexcubeForm::LDAPUSR</value>
 </metadata>
</plugin>
<plugin pluginclass="com.oracle.oim.utility.eventhandler.StartDatePrepopulateAdapter" version="1.0"
        name="StartDatePrepopulateAdapter">
 <metadata name="PrePopulationAdapater">
  <value>FlexcubeForm::STARTDATE</value>
 </metadata>
</plugin>
</plugins>
<plugins pluginpoint="oracle.iam.platform.kernel.spi.EventHandler">
 <plugin pluginclass="com.oracle.oim.utility.eventhandler.UserPasswordPreProcessHandler" version="1.0"
        name="UserPasswordPreProcessHandler"></plugin>
</plugins>
</oimplugins>
```

- Change the directory to

  <AdapterSource>/OIM/OIM-Config/PrePopulateAdapter /setup

- Modify the OIM_SERVER_INSTALL_DIR entry in the build.xml to where OIM Server is installed ( for example D:\Oracle\Middleware\weblogic\Oracle_IDM1) and JAVA_HOME entry
  - To execute the build file, type “ant” on the shell and press enter.

Above step creates a zip file in <AdapterSource>/OIM/OIM-Config/PrePopulateAdapter/build/ folder with the name **prepopulateadapter.zip**

- Copy the <AdapterSource>/OIM/OIM-Config/PrePopulateAdapter/build/prepopulateadapter.zip into <OIM_SERVER_INSTALL_DIR>/server/plugins/
- <OIM_SERVER_INSTALL_DIR>/server/plugin_utility/ant.properties should be changed from

```
################################################################
## The installation directory for WLS or WAS
################################################################
```

```
#wls.home=@wls_home

#was.home=@was_home


################################################################

# The OIM server directory for OIM. For example: MW_HOME/Oracle_IDM1/server

################################################################

#oim.home@oim_home


################################################################

#login file name with path for WAS or WLS

################################################################

#login.config=${oim.home}/config/authwl.conf

#login.config=${oim.home}/config/authws.conf


################################################################

# Represents the directory where Oracle Fusion Middleware is installed.

################################################################

#mw.home=@mw_home
```

To

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

## The installation directory for WLS or WAS

################################################################

wls.home=<Installation_DIR>/Middleware/wlserver_10.3

#was.home=@was_home


################################################################

# The OIM server directory for OIM. For example: MW_HOME/Oracle_IDM1/server

################################################################

oim.home=<OIM_INSTALLATION_DIR>/server/


################################################################

#login file name with path for WAS or WLS
```

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

login.config=${oim.home}/config/authwl.conf

#login.config=${oim.home}/config/authws.conf



#################################################################

# Represents the directory where Oracle Fusion Middleware is installed.

#################################################################

mw.home=<Installation_DIR>/Middleware
```

- Set the ANT_HOME & JAVA_HOME
- In Command Prompt / SHELL type the below command and Press Enter
- ant -f  pluginregistration.xml register
- Following Information has to be provided
  - OIM Admin User – xelsysadm
  - OIM Admin User – Password
  - OIM Admin server URL : t3://hostname:portname
  - Full path of adapter which needs to be imported

<OIM_SERVER_INSTALL_DIR>/server/plugins/prepopulateadapter.zip

- Result will be displayed like

```
Plugin com.oracle.oim.utility.eventhandler.LdapUserPrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserIDPrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.StartDatePrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserNamePrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserPasswordPrepopulateadapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.EmailPrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserPasswordPreProcessHandler version 1.0 Registered
```

- Modify the weblogic.properties under < OIM_SERVER_INSTALL_DIR >/server/bin

```
wls_servername=@servername

application_name=@appname

metadata_from_loc=@metadata_from_loc
```

to

```
wls_servername=oim_server1

application_name=OIMMetadata

metadata_from_loc=<AdapterSource>/OIM/OIM-Config/PrePopulateAdapter/oim
```

- Type **sh weblogicImportMetadata.sh** in shell or **weblogicImportMeteData.bat** in command prompt and press enter to execute the command.
- You have to enter Weblogic Admin Server – user name, password and URL ( like t3://localhost:7001 )
- Type **sh PurgeCache.sh all** in shell or **PurgeCache.bat all** in command prompt and press enter to execute the command.
- Now you have to enter oim admin user name ( xelsysadm ), password and oim server URL ( like t3://localhost:14000 )
- Restart the OIM Server to impact the changes done.

***5.*** Create folders for Reconciliation

- For reconciliation, there should be different folder for staging files (yet to be reconciled) and for processed files (after reconciliation). These folders can be anywhere that OIM should able to access. If it is other than the OIM server system then that network path should be mapped as network drive.
- Create folder to keep staging file, for example

  <OIM_SERVER_INSTALL_DIR>\xellerate\GTC\Recon\Staging
- Create folder to keep processed file, for example

  <OIM_SERVER_INSTALL_DIR>\xellerate\GTC\Recon\Archive

***6.*** Importing Configuration Files

This step involves import of integration specific configuration files into OIM using OIM provided Deployment Manager.

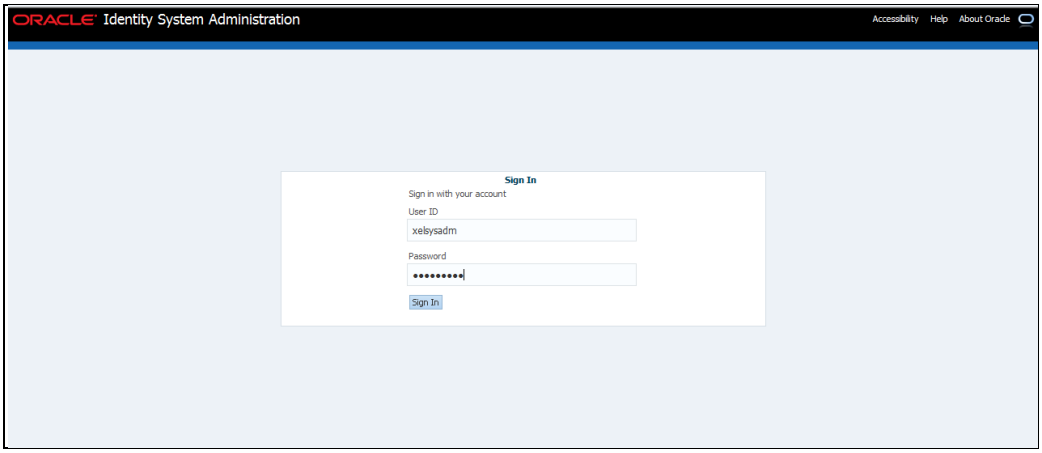
Prerequisite: Ensure that OIM setup steps have been followed properly.

Note: Do the import in the same order as it is described below.

Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostname>:<oimport>/sysadmin)

***7.*** Login to Administrative Console

8. Enter OIM administrator username/password and press Sign In.

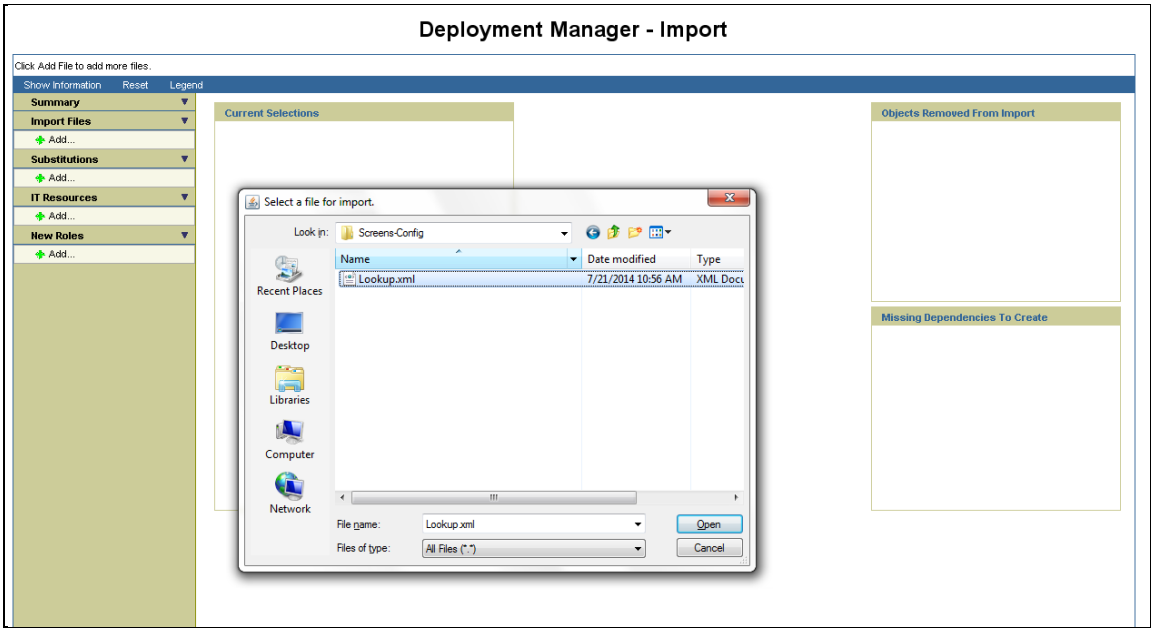


9. Click on Import option under System Management.


The following screen will get displayed with Add File option.

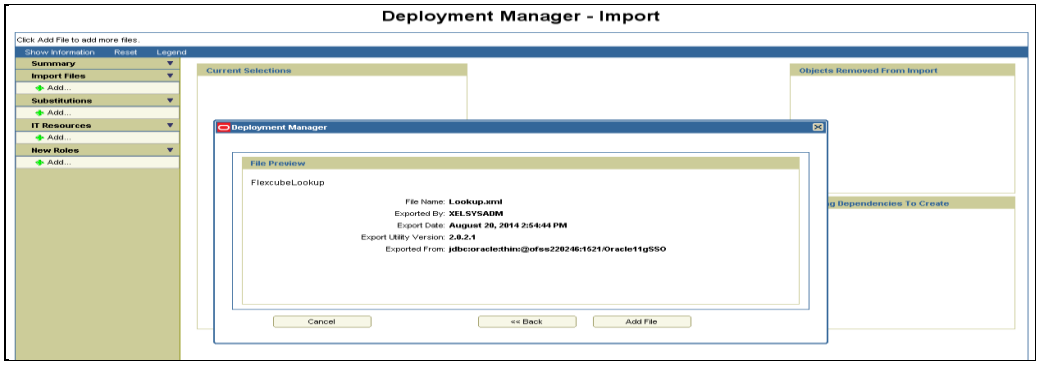
10. Select Lookup.xml file from the folder <SPMLADAPTER_INSTALL_DIR>\OIM\OIM-Config\Screens-Config.

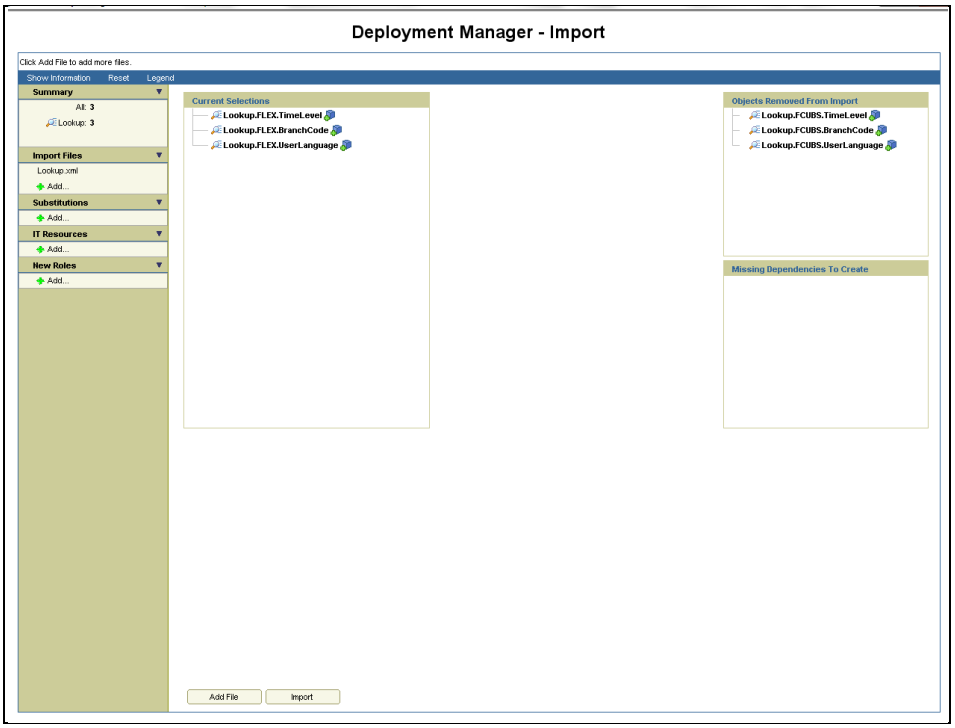
11. Click on Open.



We will get File preview screen

12. Click on Add file.



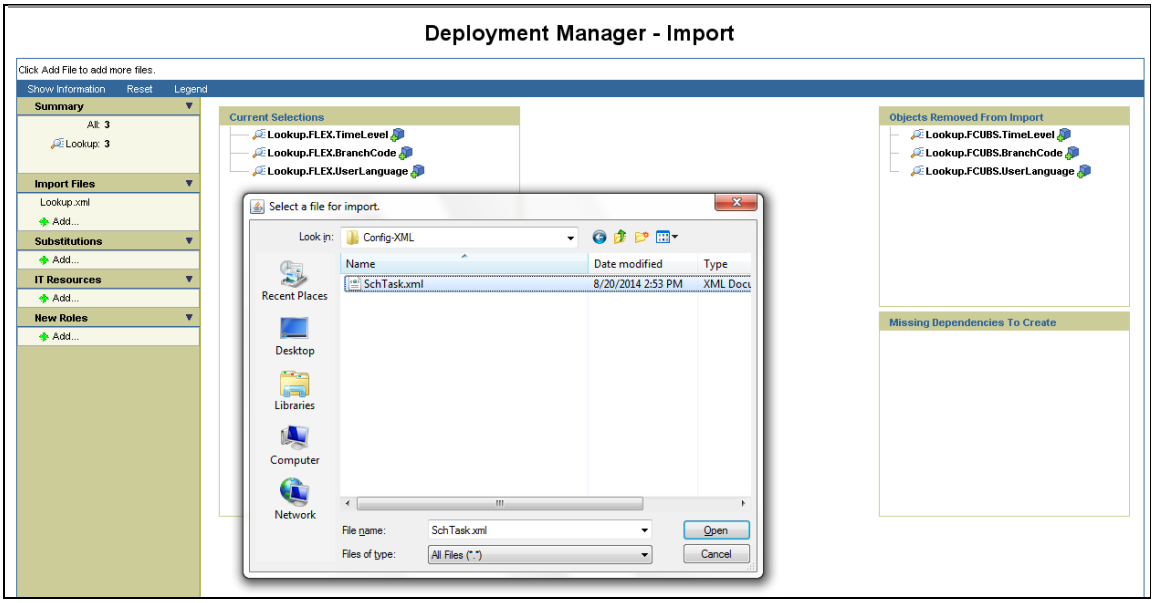



***13.*** Click on Add File

14. Select Rule.xml file from the folder

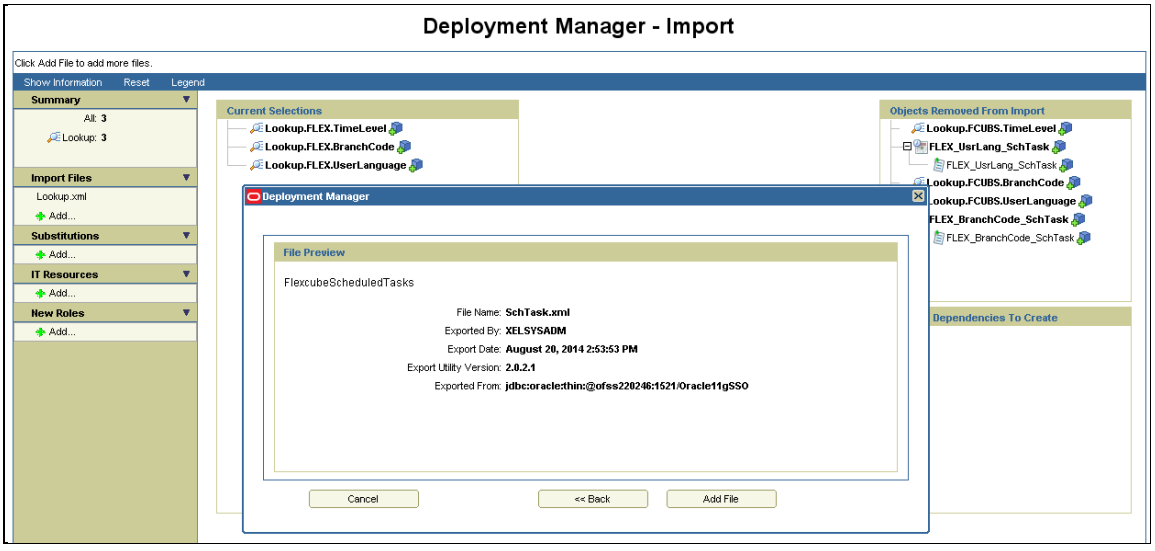
    <SPMLADAPTER_INSTALL_DIR>\OIM\OIM-Config\Sch-Tasks\Config-XML.

15. Click on Open.

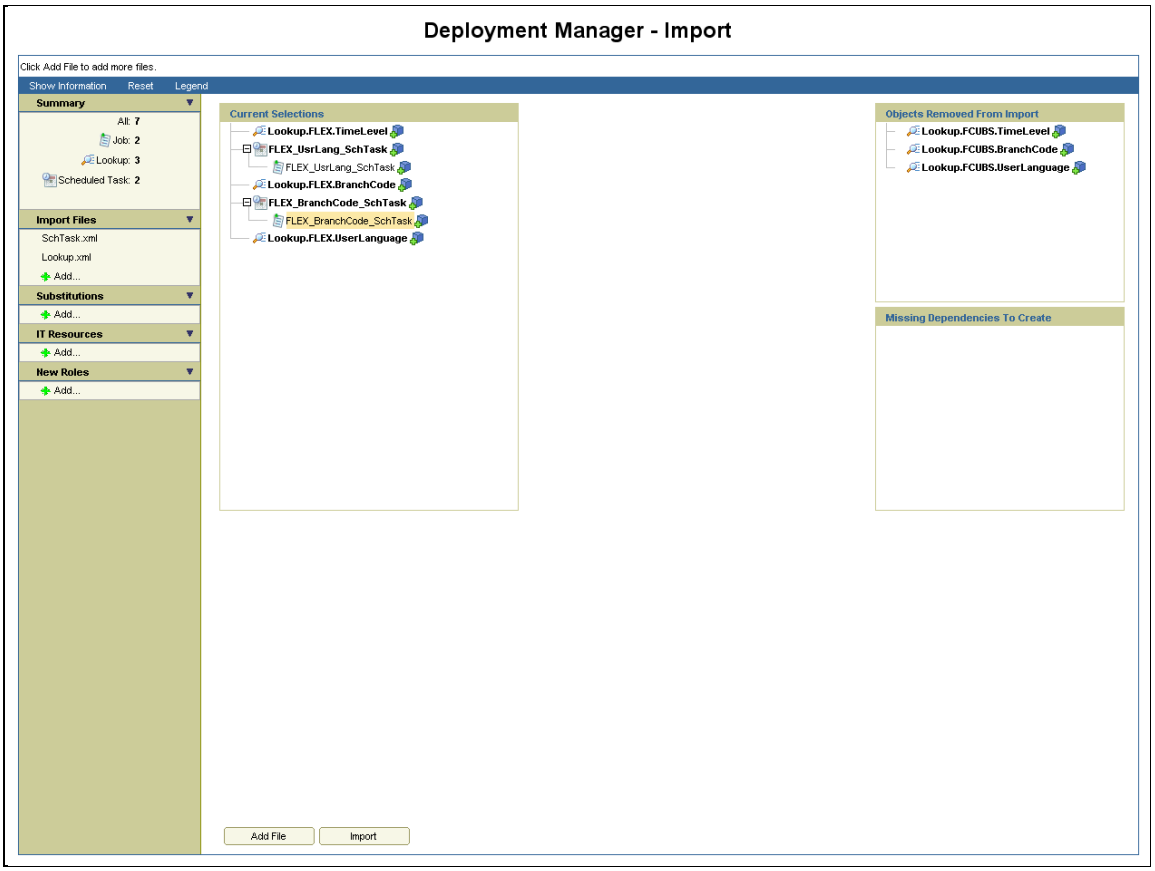



We will get File preview screen

16. Click on Add file.

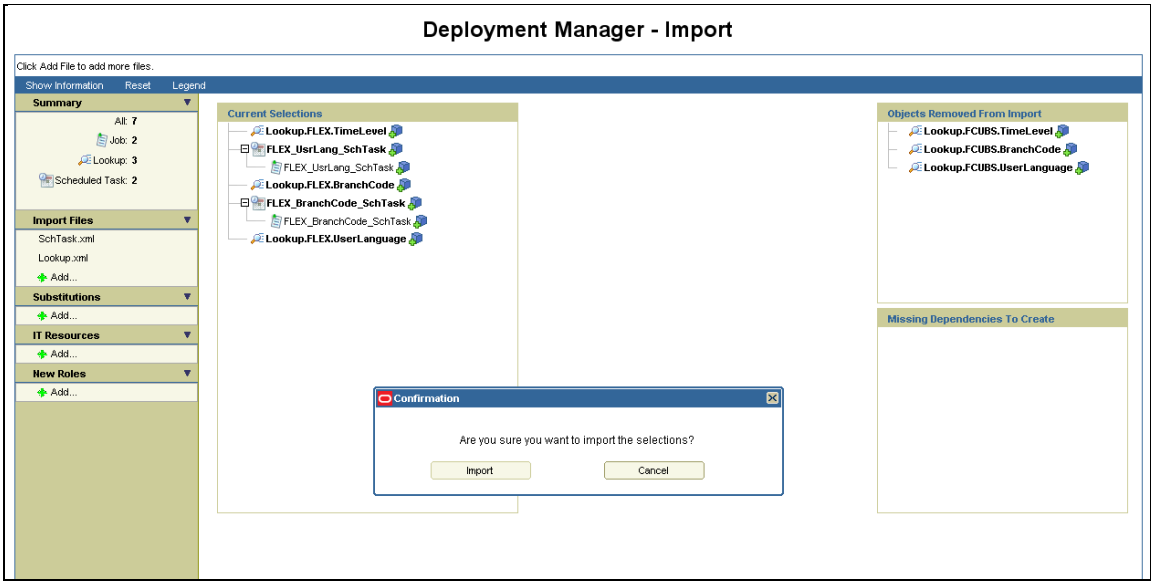


17. Click on Import.



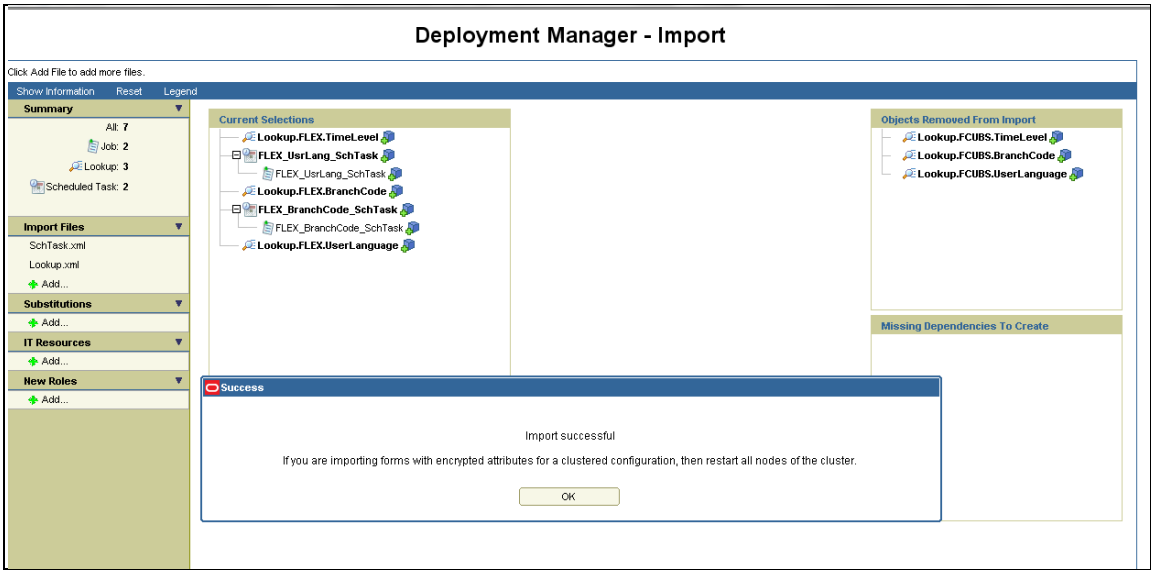

Above will prompt for Import Confirmation

18. Click on Import to start import.



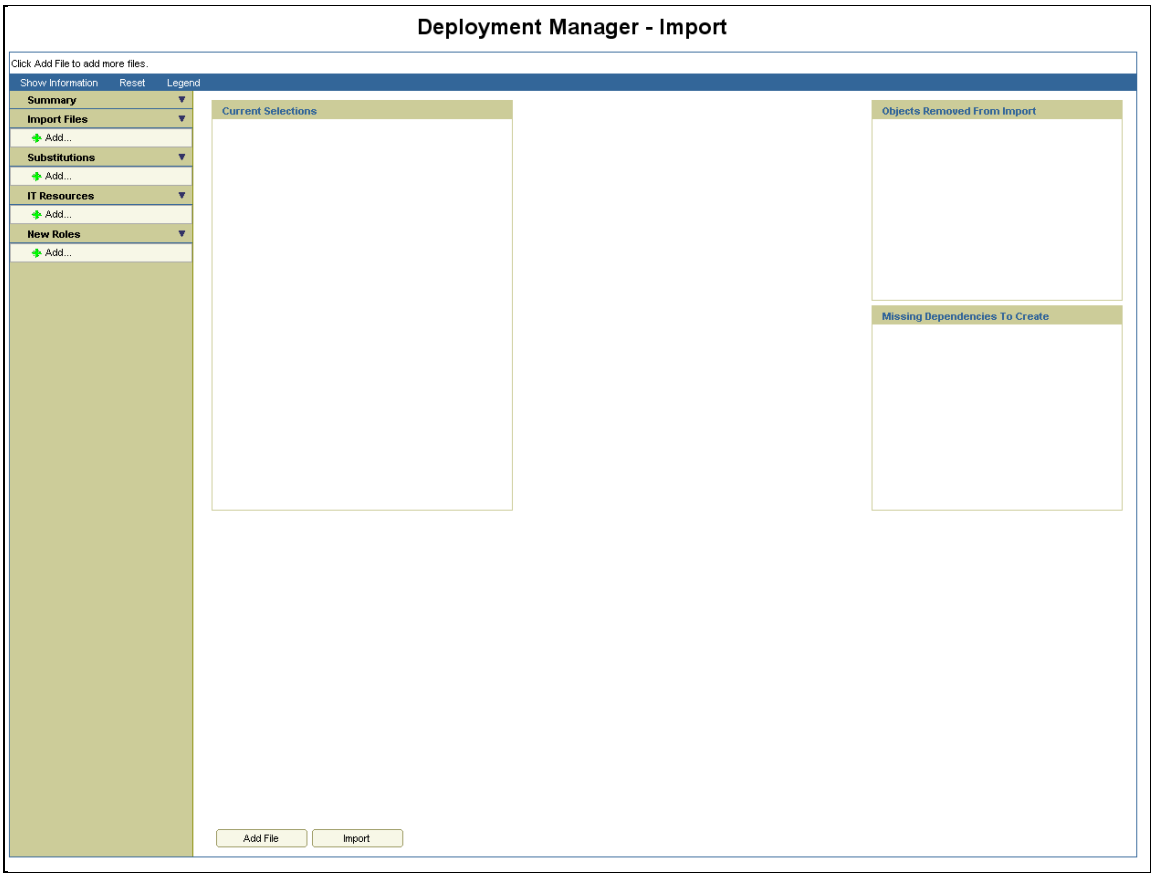
On successful import following screen will come.

19. Ensure that import is successful and click on ok.



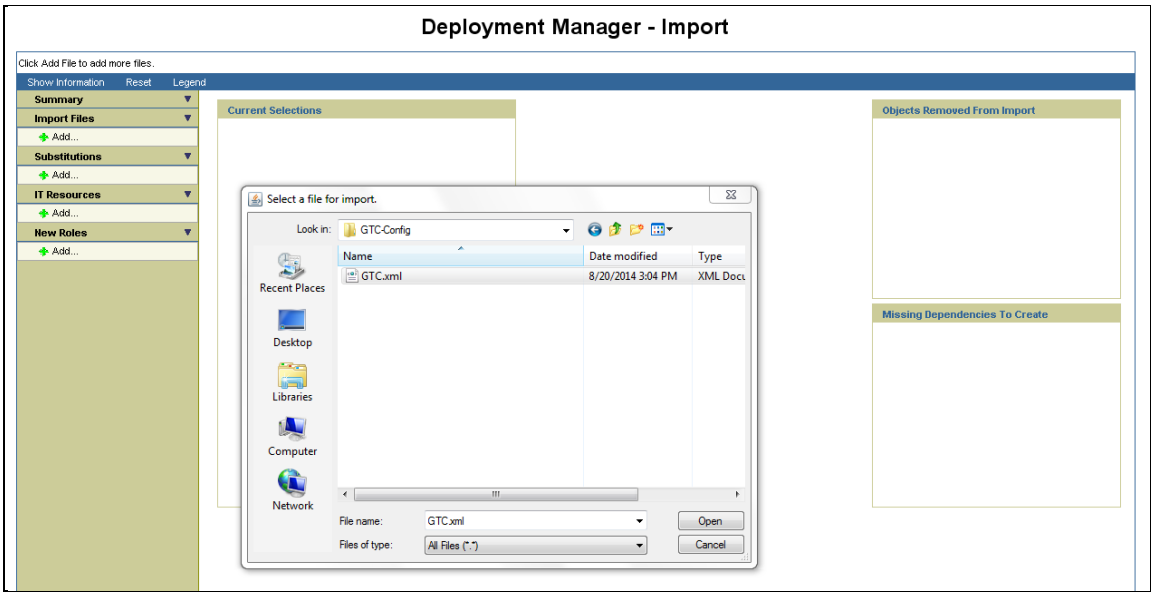

The following screen will get displayed.

20. Click on Add File.



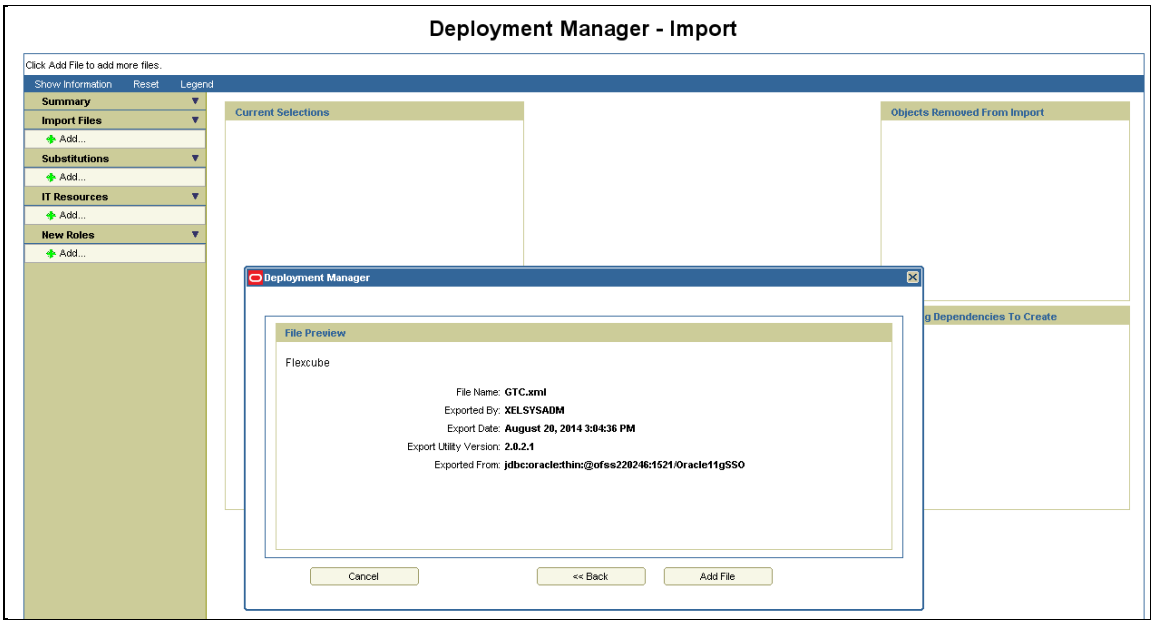
Open file window will get appeared.

21. Select GTC.xml file from the folder <SPMLADAPTER_INSTALL_DIR>\OIM\OIM-Config\GTC\.
22. Click on Open.



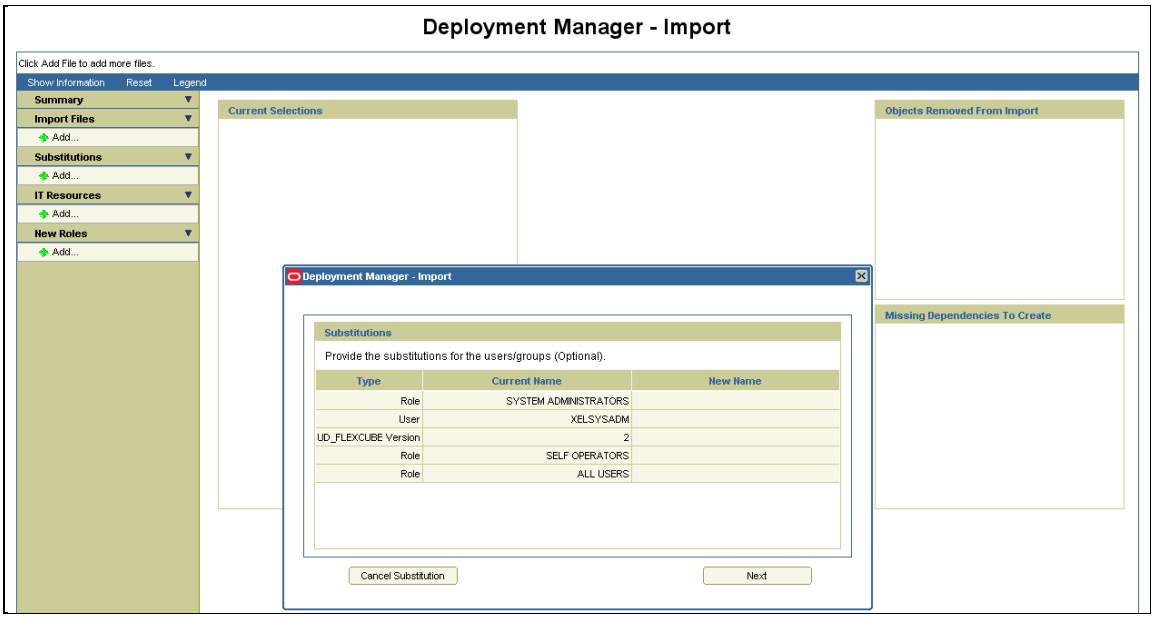

We will get File preview screen

23. Click on Add file.



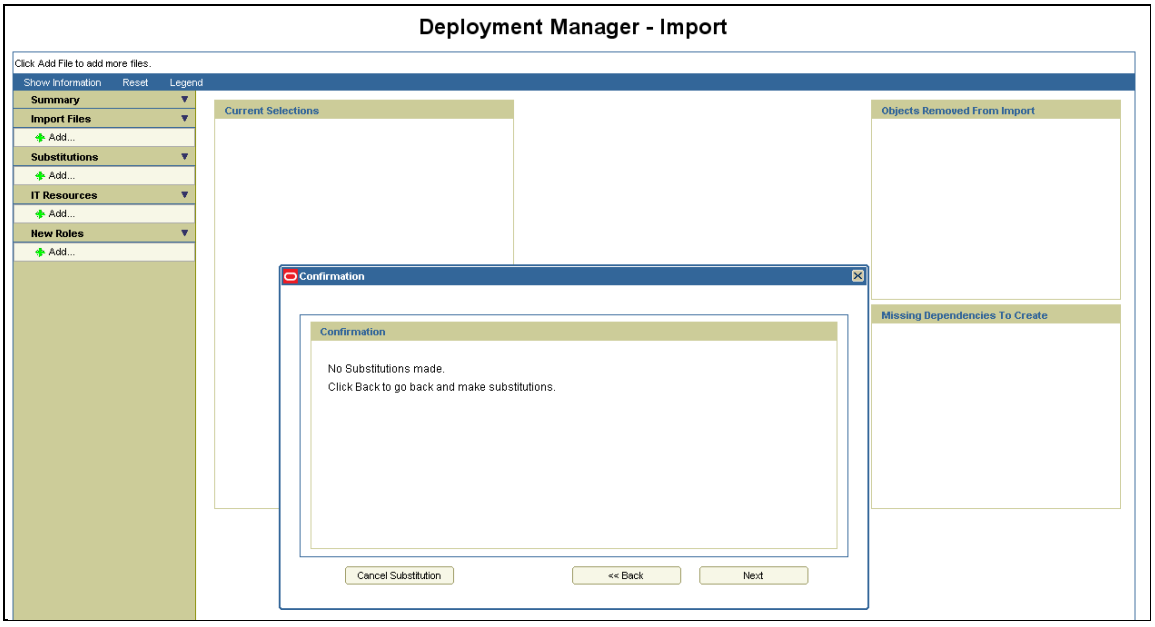
Next screen will be the substitution screen.

24. If the GTC is imported first time then click on Next.
25. If GTC have been already imported once successfully, change the Version name for example UD_FLEXCUBE Version = FLEXCUBE V2.
26. Click on Next.




Above will prompt for substitution Confirmation

27. If any value has been changed on previous screen it will list those substitution otherwise below screen will get displayed. Click on Next.



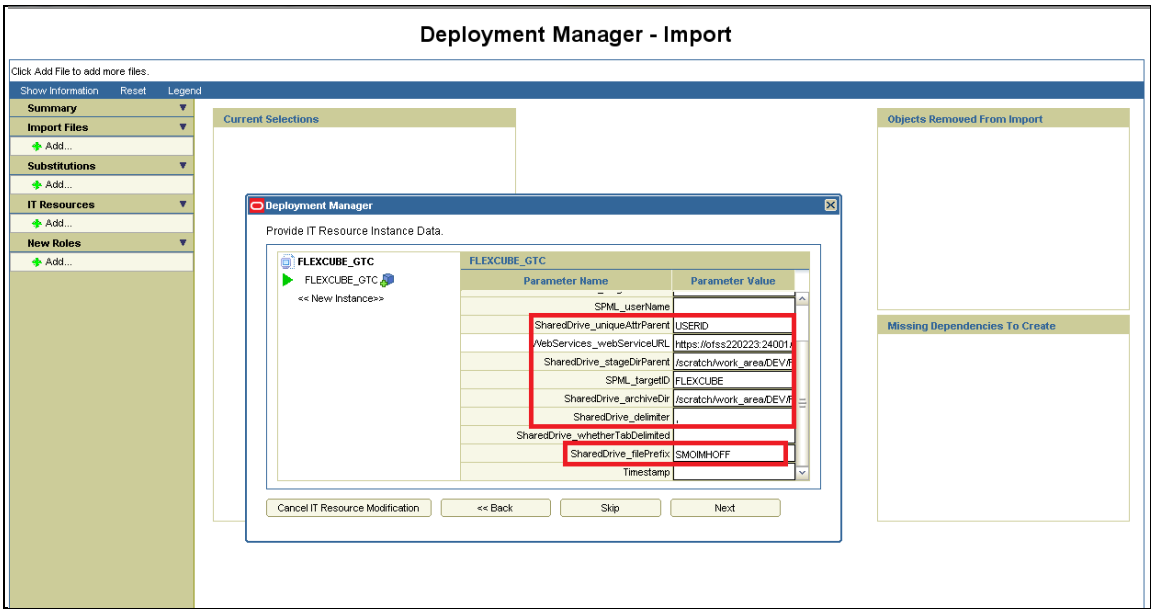
Next, Provide IT resource instance data screen will get displayed.

28. Ensure that the green arrow should point to FLEXCUBE_GTC.

29. Provide followings to the right hand table:

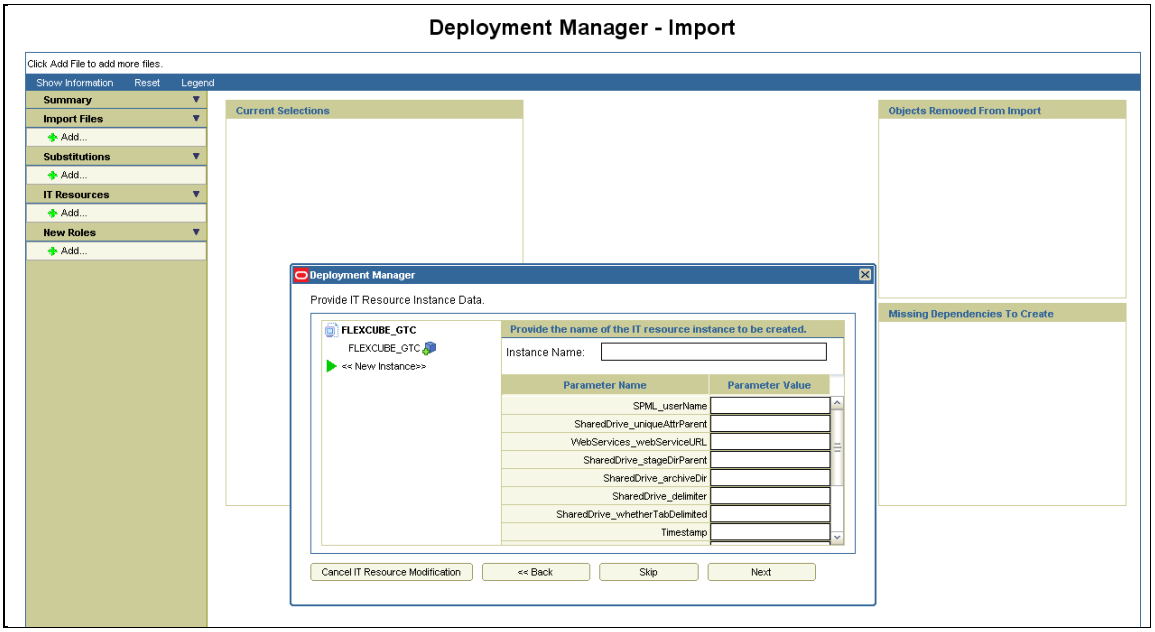
| Parameter Name | Parameter Value |
|---|---|
| SPML_targetID | FLEXCUBE |
| SharedDrive_filePrefix | SMOIMHOFF |
| SharedDrive_stageDirParent | Full path of the staging folder created in step 4 of OIM setup<br>Eg: /home/Oracle/Oracle/Middleware/FCUBS-OIM-Config/Staging |
| Webservices_webserviceURL | Provisioning web servic**e FCUBSProvisioningAdService** URL deployed in step .Typically it should be like https://<hostName>:<port>/FCUBSProvisioningAdService/FCUBSProvisioningAdServiceSEI<br>Eg: https://ofss220223:14001/FCUBSProvisioningAdService/FCUBSProvisioningAdServiceSEI |
| SharedDrive_archiveDir | Full path of the archiving folder created in step 4 of OIM setup<br>Eg: /home/Oracle/Oracle/Middleware/FCUBS-OIM-Config/Archive |
| SharedDrive_delimeter | , [Comma ] |
| SharedDrive_uniqueAttrParent | USERID |

***30.*** Click on Next.


Deployment Manager - Import
Click Add File to add more files.
Show Information
Reset
Legend
Summary
Import Files
Add...
Substitutions
Add...
IT Resources
Add...
New Roles
Add...
Current Selections
Objects Removed From Import
Missing Dependencies To Create
Deployment Manager
Provide IT Resource Instance Data.
FLEXCUBE_GTC
FLEXCUBE_GTC
<< New Instance>>
FLEXCUBE_GTC
Parameter Name
Parameter Value
SPML_userName
SharedDrive_uniqueAttrParent
USERID
WebServices_webServiceURL
SharedDrive_stageDirParent
SPML_targetID
FLEXCUBE
SharedDrive_archiveDir
SharedDrive_delimiter
,
SharedDrive_whetherTabDelimited
SharedDrive_filePrefix
SMOIMHOFF
Timestamp
Cancel IT Resource Modification
<< Back
Skip
Next

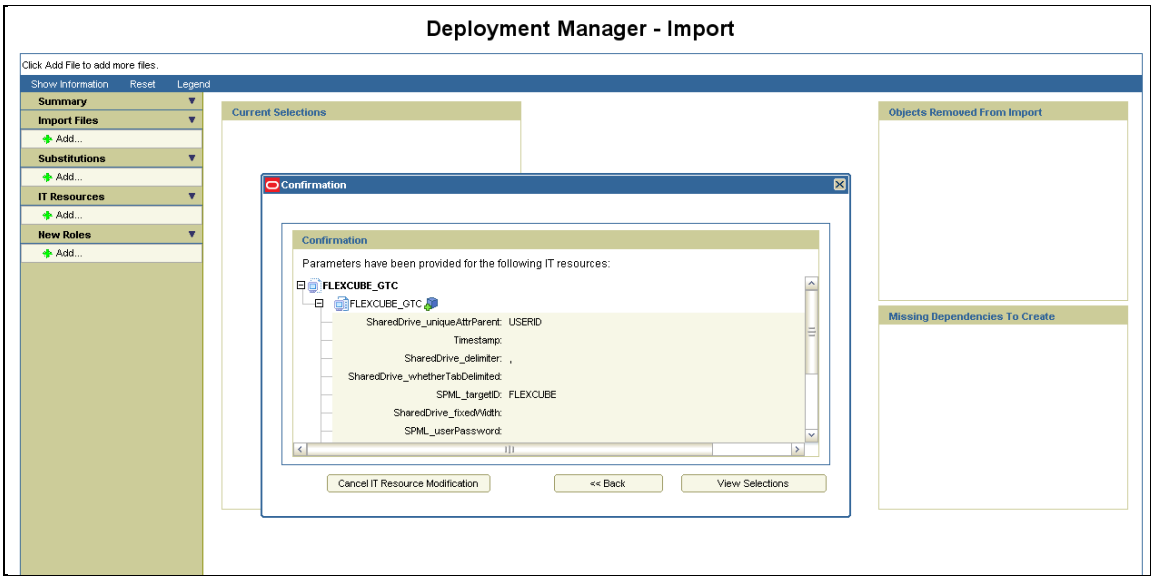
The following screen will get displayed.

31. Click on Skip.




A confirmation window for parameter values will get displayed.

32. Confirm the values and click on View Selections.

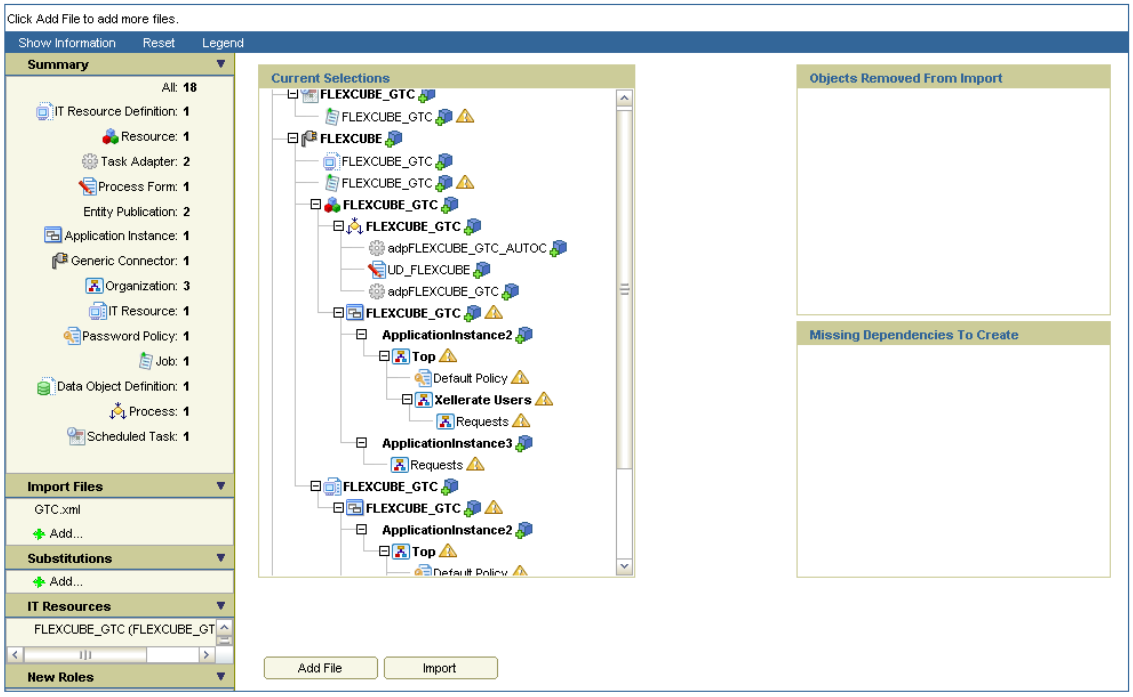



We will get Selection screen that will show all components of GTC.

33. Make sure that there should be no items in Missing Dependencies to create box on right below of the screen. If so, probably some previous imports has been missed out or not imported successfully. Repeat the earlier imports again.

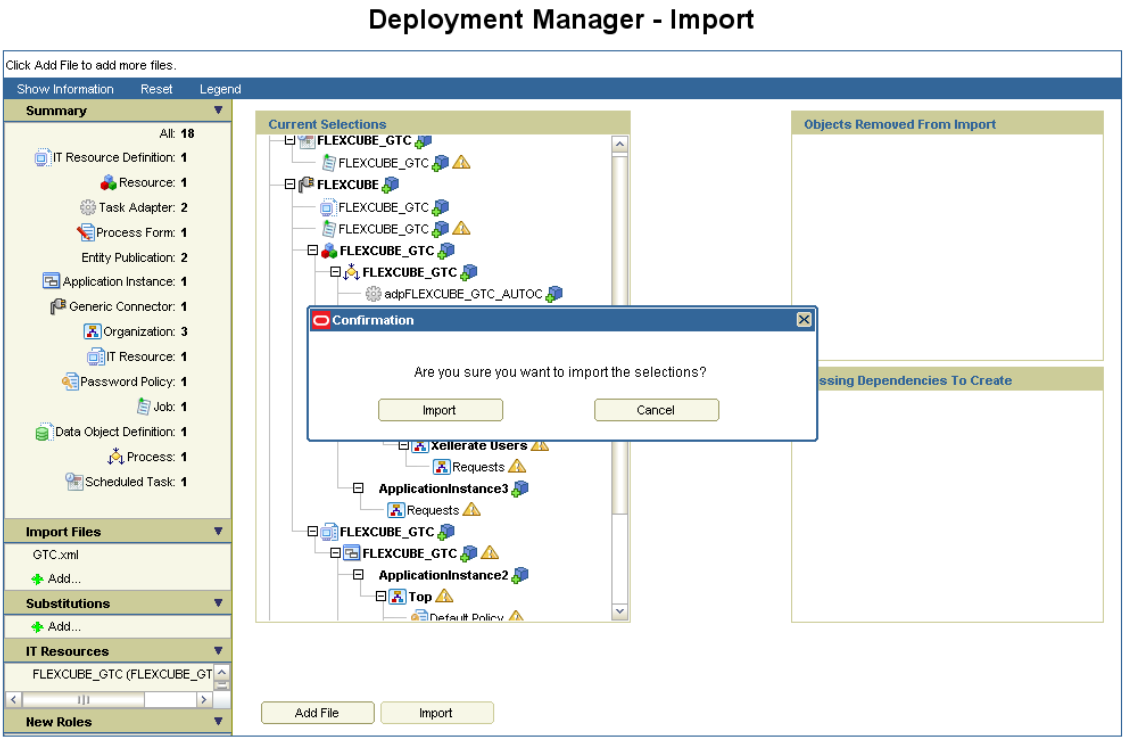
34. Otherwise click on Import.

# Deployment Manager - Import



Above will prompt for Import Confirmation

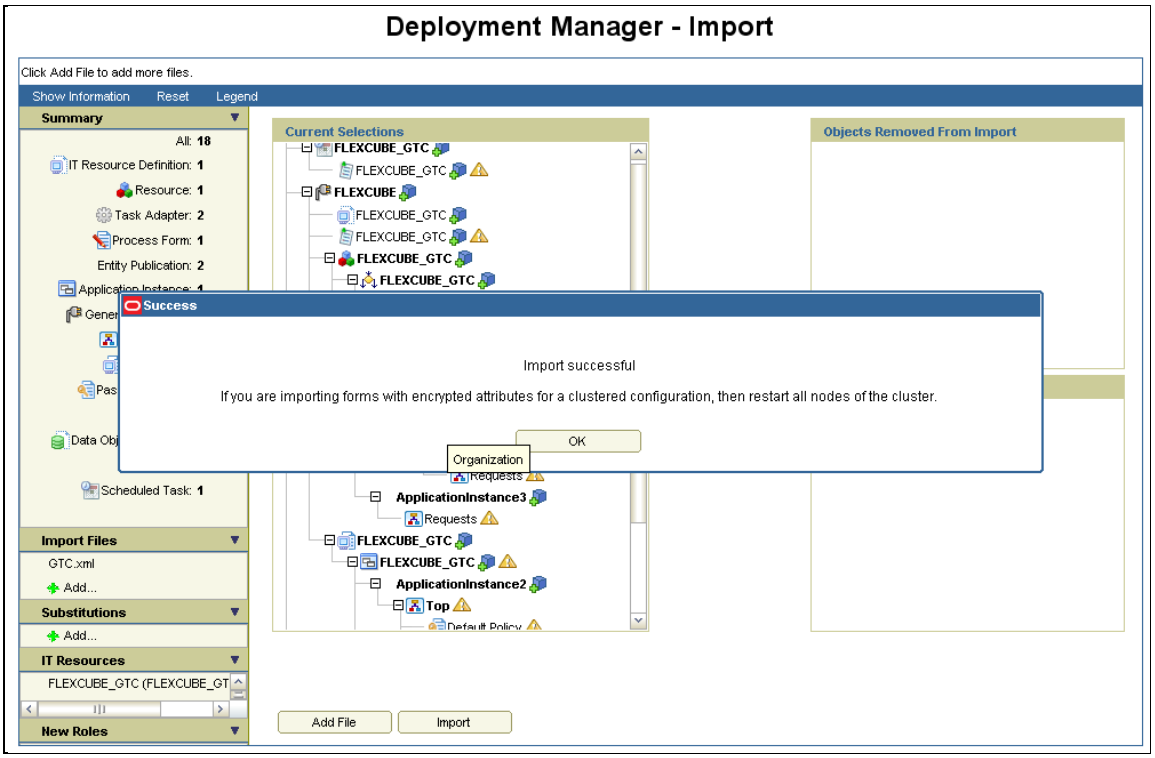
35. Click on Import to start import.




**Note:** Import of GTC.xml may take more time as compare to other imports.

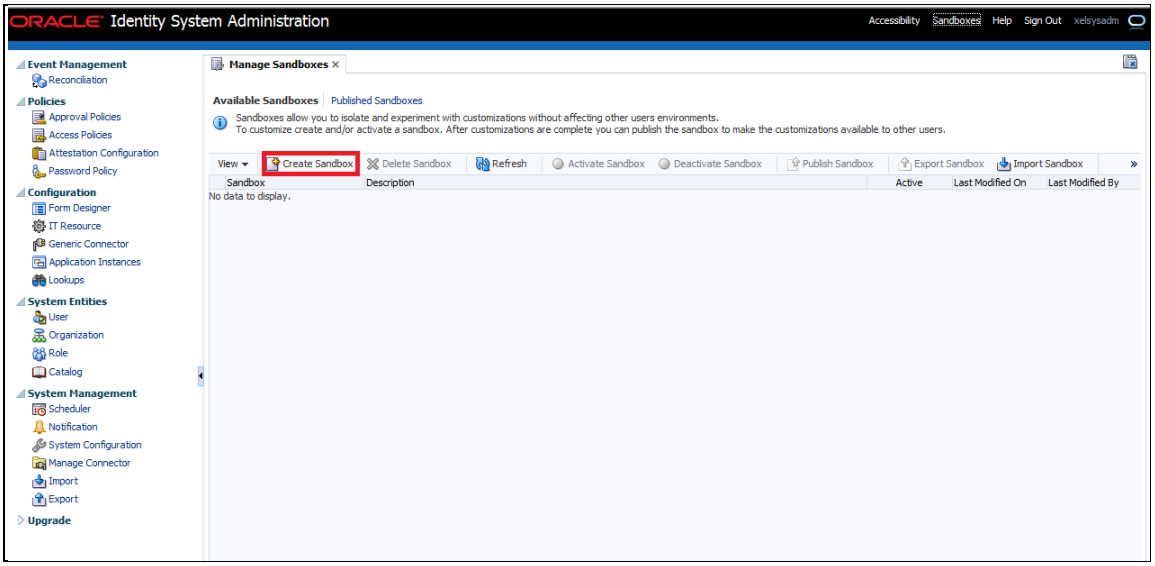
On successful import following screen will come.

36. Ensure that import is successful and click on ok.


Deployment Manager - Import
Click Add File to add more files.
Show Information
Reset
Legend
Summary
All: 18
IT Resource Definition: 1
Resource: 1
Task Adapter: 2
Process Form: 1
Entity Publication: 2
Scheduled Task: 1
Import Files
GTC.xml
Add...
Substitutions
Add...
IT Resources
FLEXCUBE_GTC (FLEXCUBE_GT
New Roles
Current Selections
FLEXCUBE_GTC
FLEXCUBE
Objects Removed From Import
Success
Import successful
If you are importing forms with encrypted attributes for a clustered configuration, then restart all nodes of the cluster.
OK
Organization
ApplicationInstance3
Requests
ApplicationInstance2
Top
Add File
Import

37. Click on Sandboxes.

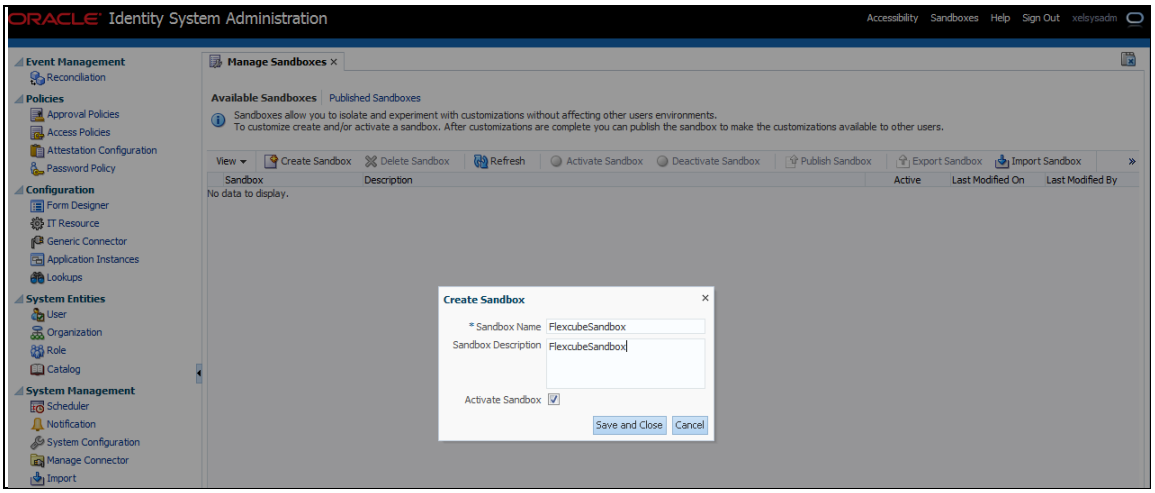

38. Click on Create Sandbox.



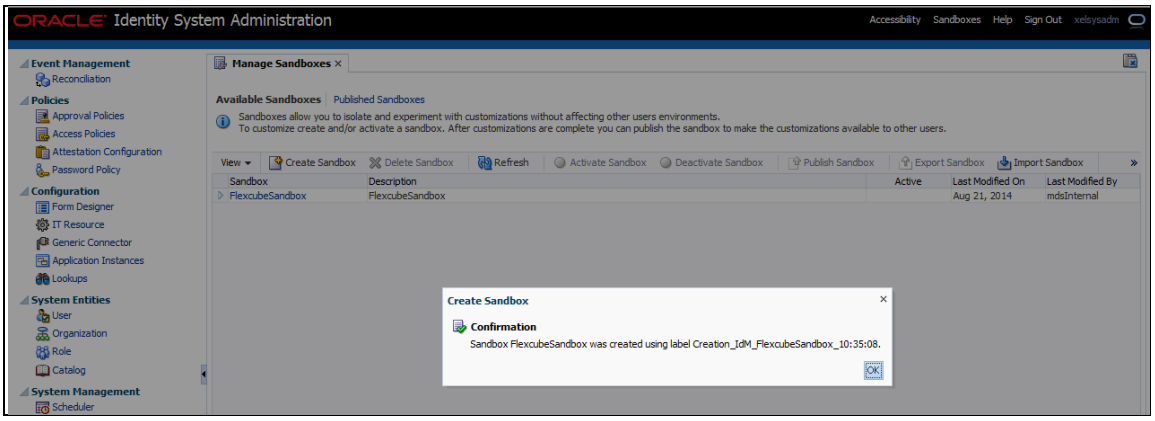

Enter the Below Details and Click on Save and Close.

39. Sandbox Name : FlexcubeSandbox

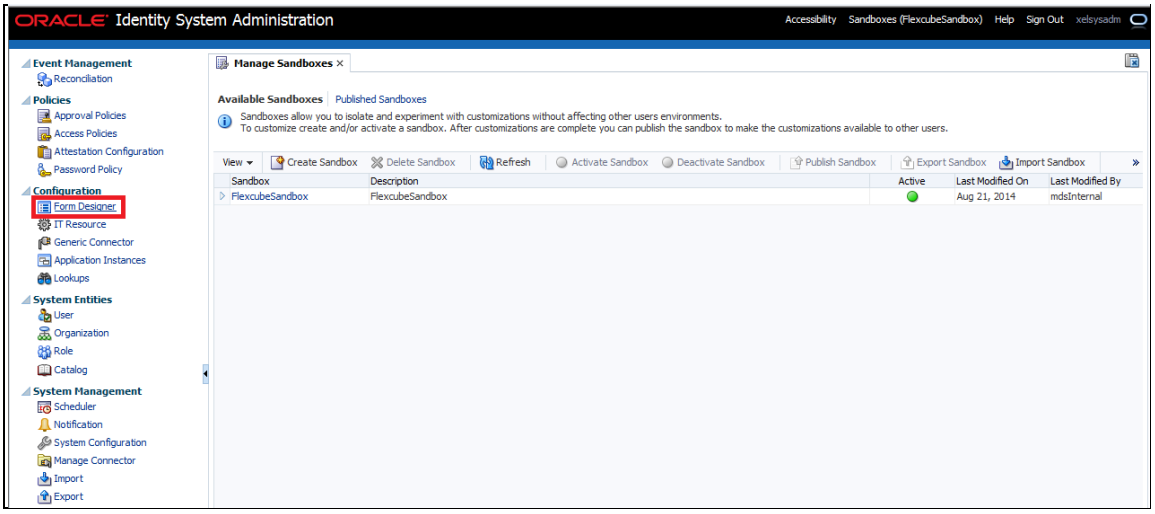
40. Sandbox Description : FlexcubeSandbox


Identity System Administration
Accessibility
Sandboxes
Help
Sign Out
xelsysadm
Event Management
Reconciliation
Policies
Approval Policies
Access Policies
Attestation Configuration
Password Policy
Configuration
Form Designer
IT Resource
Generic Connector
Application Instances
Lookups
System Entities
User
Organization
Role
Catalog
System Management
Scheduler
Notification
System Configuration
Manage Connector
Import
Manage Sandboxes
Available Sandboxes
Published Sandboxes
Sandboxes allow you to isolate and experiment with customizations without affecting other users environments.
To customize create and/or activate a sandbox. After customizations are complete you can publish the sandbox to make the customizations available to other users.
View
Create Sandbox
Delete Sandbox
Refresh
Activate Sandbox
Deactivate Sandbox
Publish Sandbox
Export Sandbox
Import Sandbox
Sandbox
Description
Active
Last Modified On
Last Modified By
No data to display.
Create Sandbox
* Sandbox Name
FlexcubeSandbox
Sandbox Description
FlexcubeSandbox
Activate Sandbox
Save and Close
Cancel

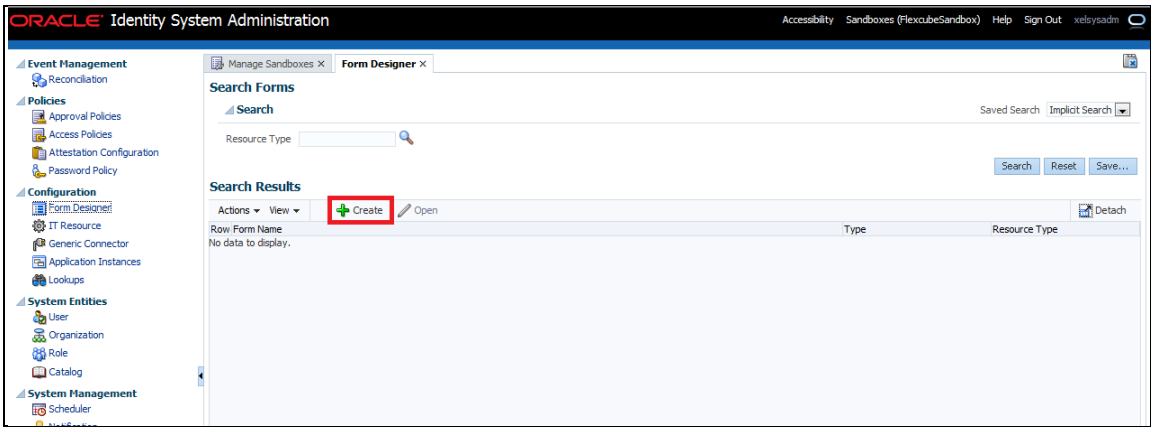
41. Click on Ok.




42. Click on Form Designer.



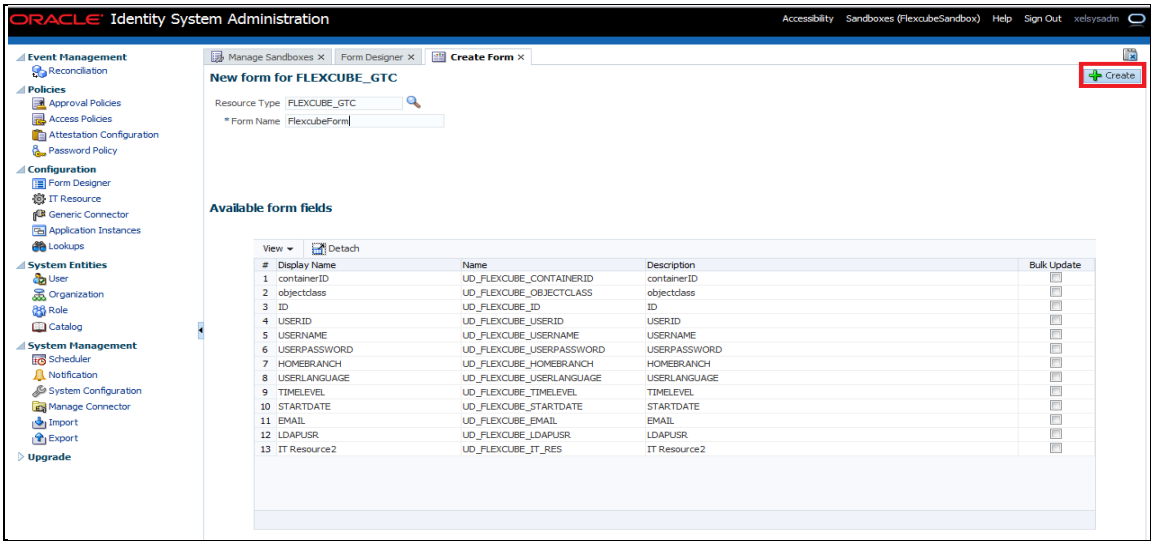

43. Click on Create



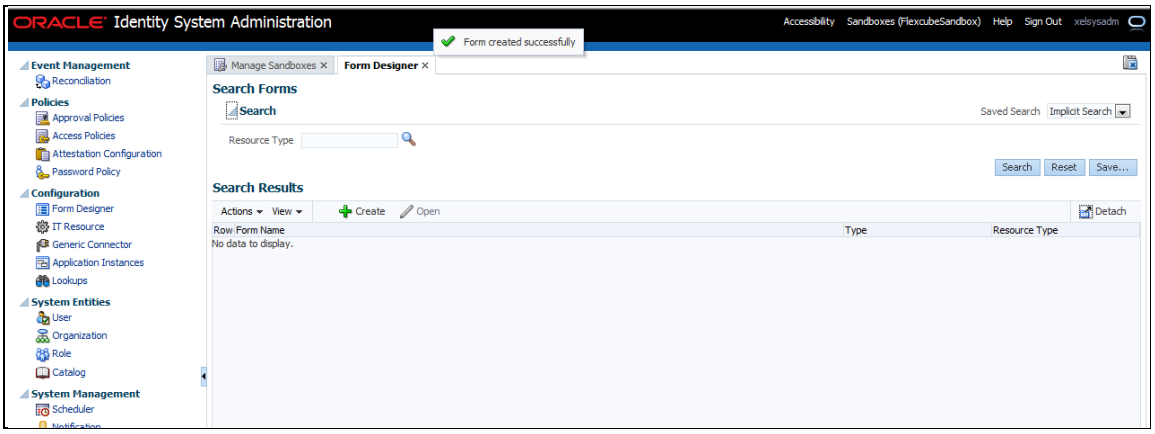
44. Enter the below details and Click on Create

- Resource Type : FLEXCUBE_GTC
- Form Name : FlexcubeForm

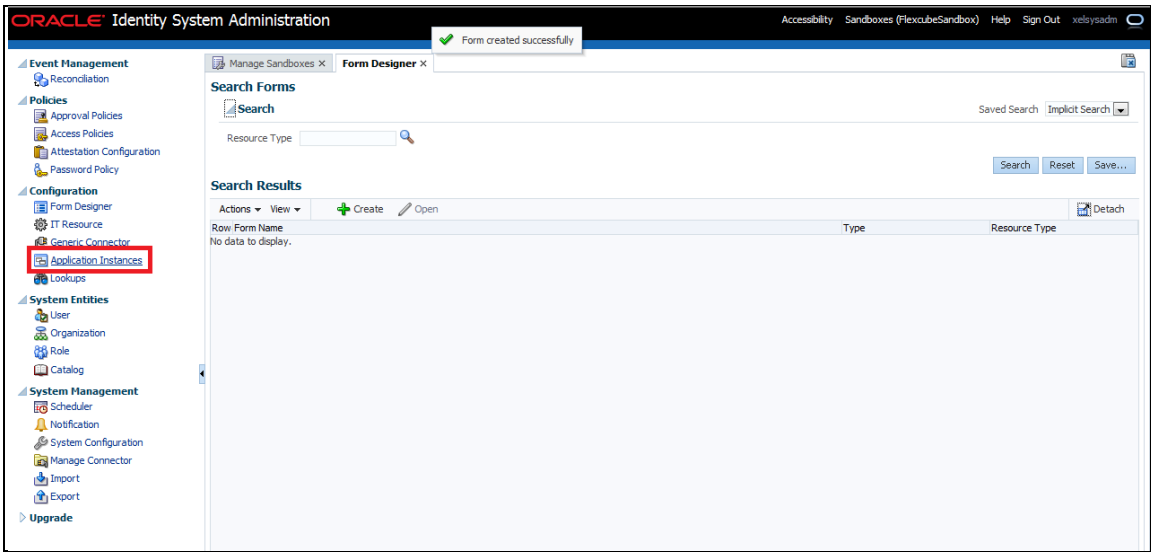
Note*: Form Name should be same as above



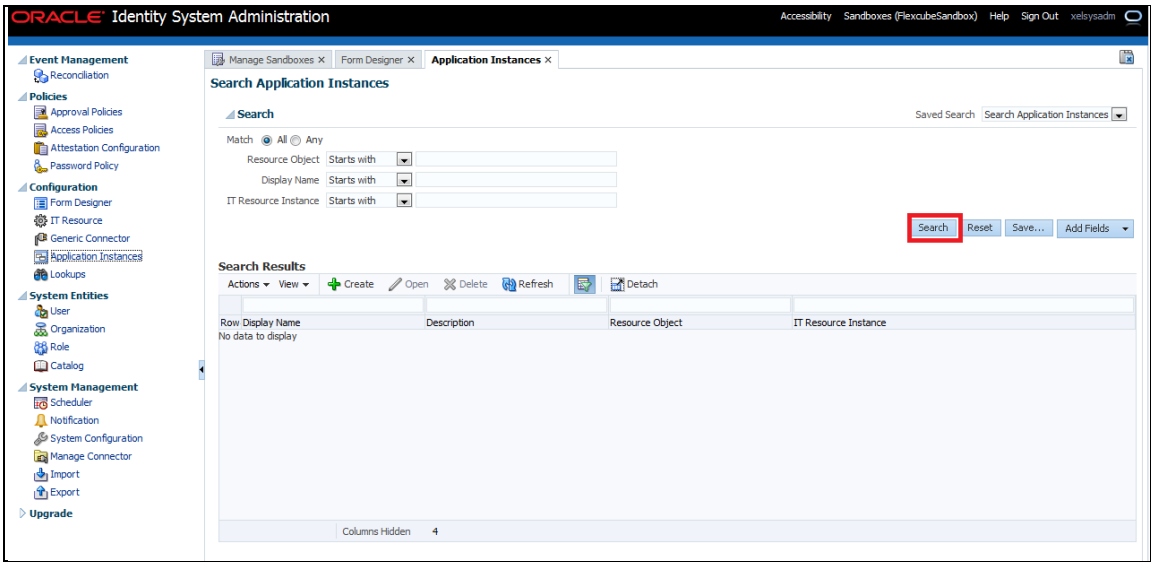

Successful form creation will be like below:



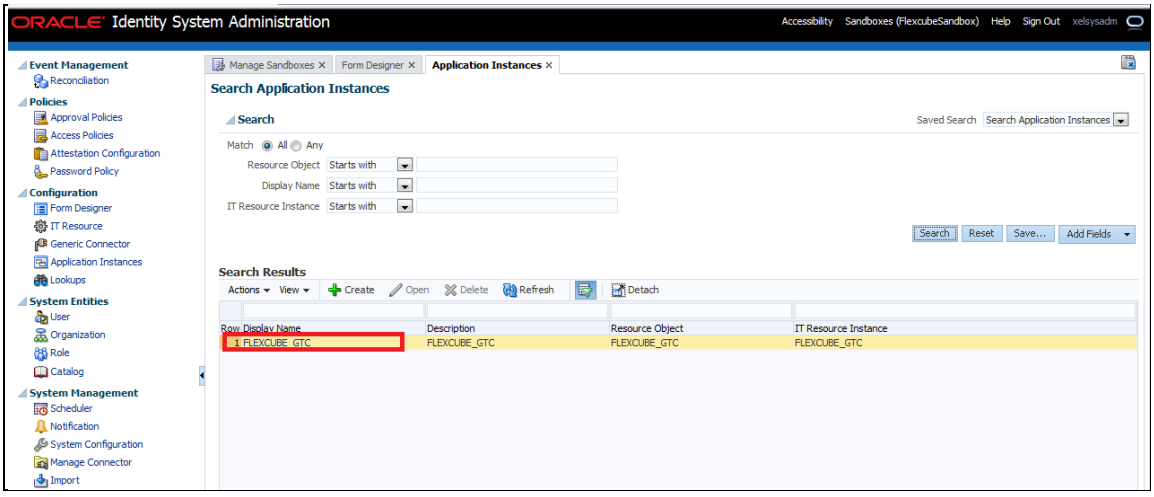

***45.*** Click on Application Instances.


ORACLE Identity System Administration
Accessibility
Sandboxes (FlexcubeSandbox)
Help
Sign Out
xelsysadm
Form created successfully
Event Management
Reconciliation
Policies
Approval Policies
Access Policies
Attestation Configuration
Password Policy
Configuration
Form Designer
IT Resource
Generic Connector
Application Instances
Lookups
System Entities
User
Organization
Role
Catalog
System Management
Scheduler
Notification
System Configuration
Manage Connector
Import
Export
Upgrade
Manage Sandboxes
Form Designer
Search Forms
Search
Saved Search
Implicit Search
Resource Type
Search
Reset
Save...
Search Results
Actions
View
Create
Open
Detach
Row Form Name
Type
Resource Type
No data to display.

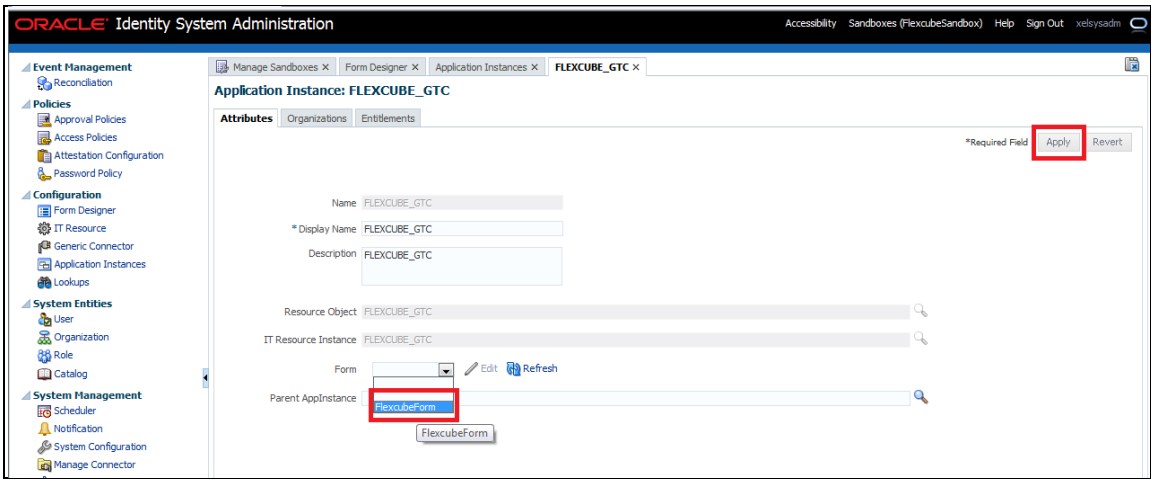
46. Click on Search.



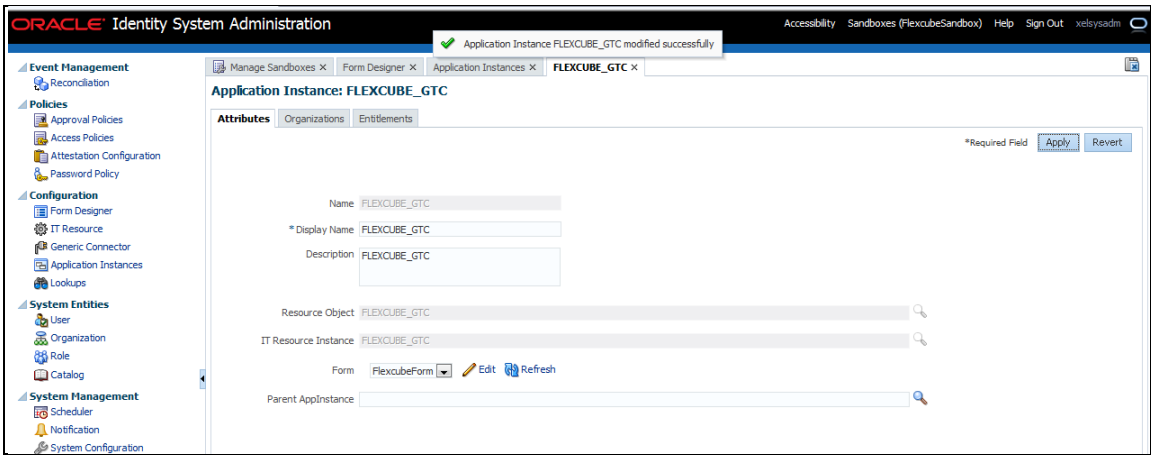

47. Click on FLEXCUBE_GTC.




***48.*** Choose the Form as FlexcubeForm and Click on Apply.

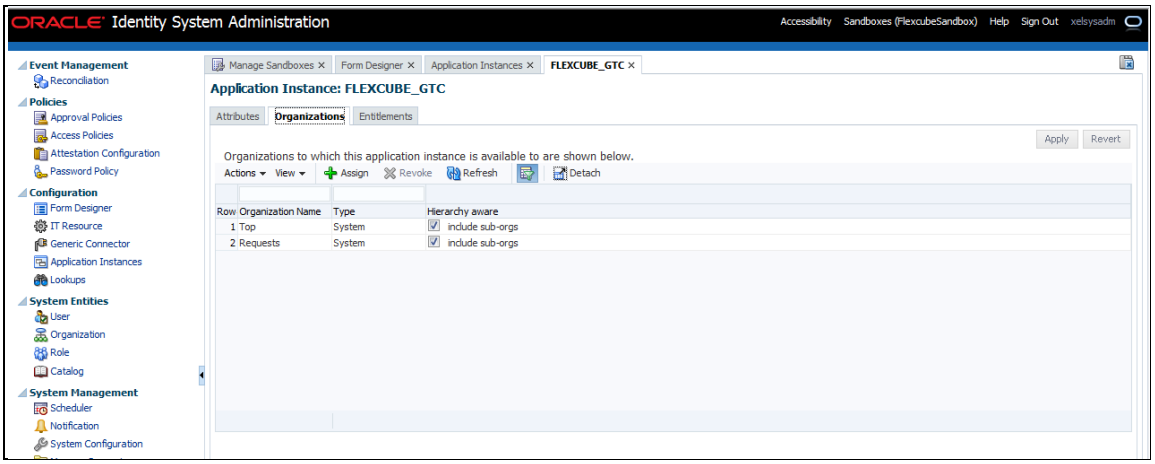

ORACLE Identity System Administration
Accessibility
Sandboxes (FlexcubeSandbox)
Help
Sign Out
xelsysadm
Event Management
Reconciliation
Policies
Approval Policies
Access Policies
Attestation Configuration
Password Policy
Configuration
Form Designer
IT Resource
Generic Connector
Application Instances
Lookups
System Entities
User
Organization
Role
Catalog
System Management
Scheduler
Notification
System Configuration
Manage Connector
Manage Sandboxes
Form Designer
Application Instances
FLEXCUBE_GTC
Application Instance: FLEXCUBE_GTC
Attributes
Organizations
Entitlements
*Required Field
Apply
Revert
Name
FLEXCUBE_GTC
* Display Name
FLEXCUBE_GTC
Description
FLEXCUBE_GTC
Resource Object
FLEXCUBE_GTC
IT Resource Instance
FLEXCUBE_GTC
Form
Edit
Refresh
Parent AppInstance
FlexcubeForm
FlexcubeForm

On Successful modification will be shown like below:

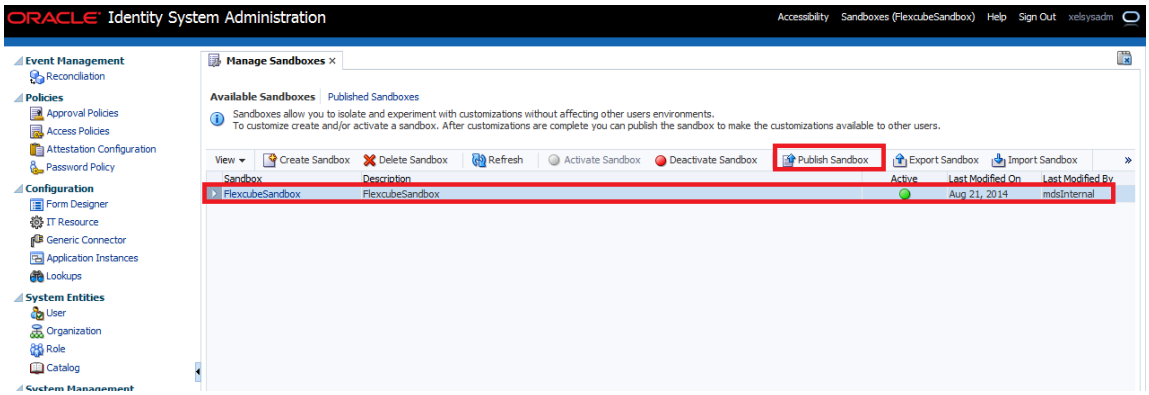


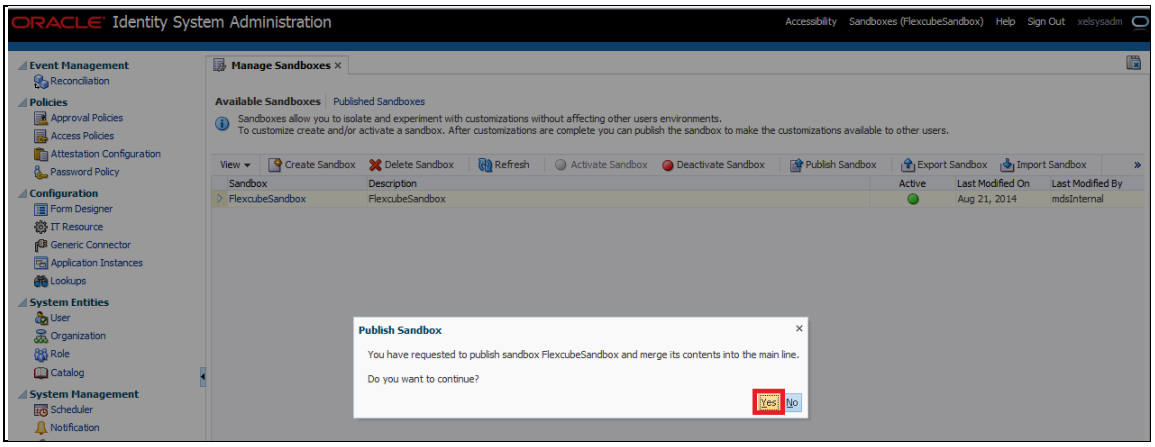

Application Instance belongs to the following Organizations

Note: In case provisioning has to be applied for different Organizations then Create the Organizations under System Entities and map those Organizations to the Application Instance.



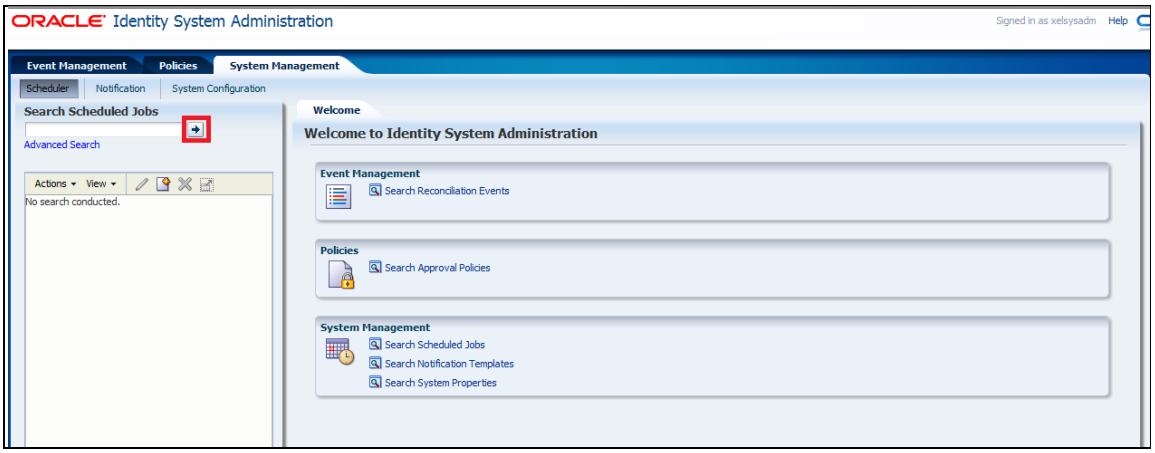

49. Select and click on Publish Sandbox.



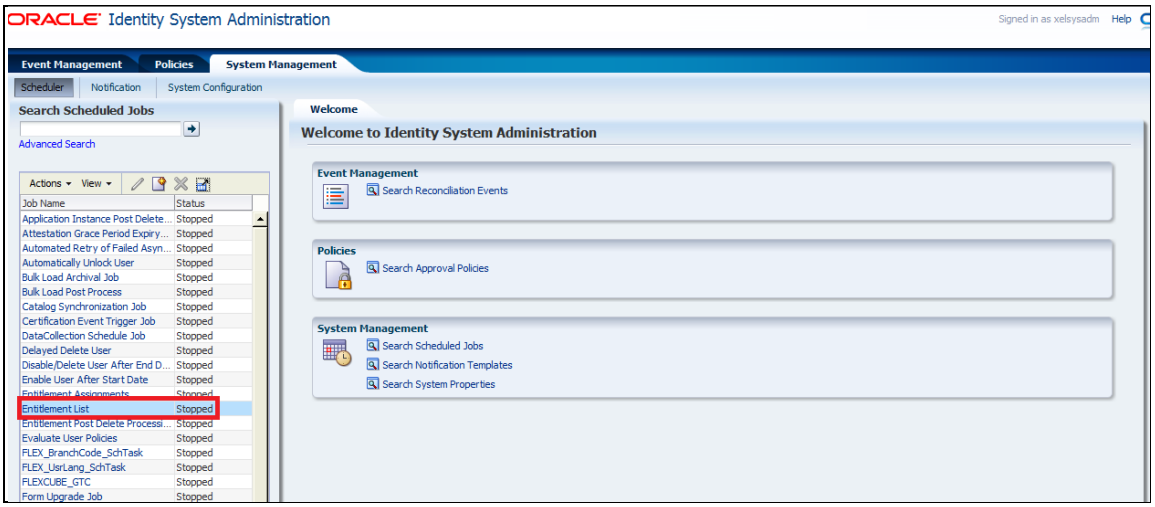



50. Click on Scheduler under System Management.

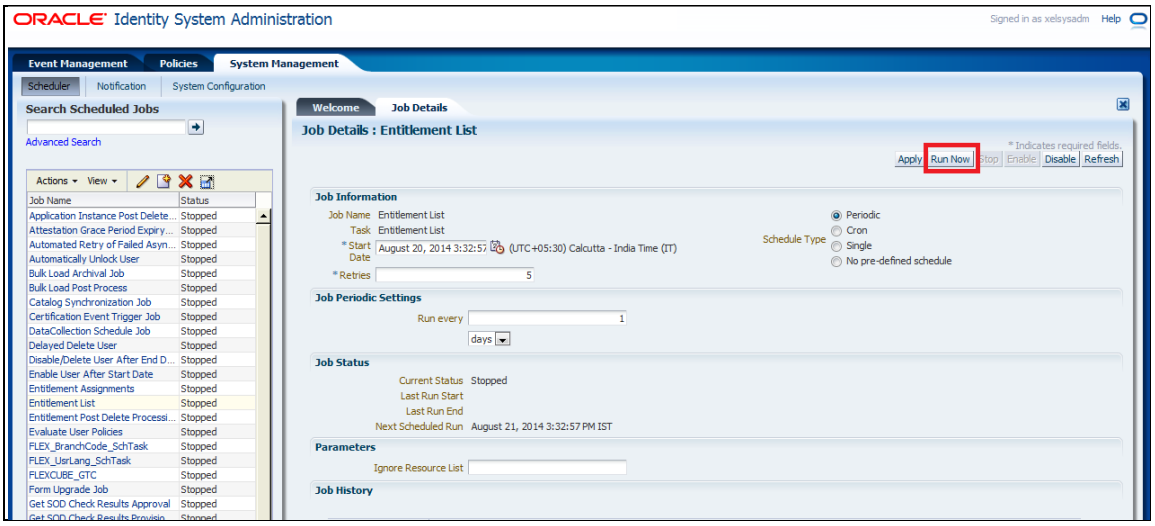

51. Click on  to Search for Scheduled Job List.



52. Click on Entitlement List




53. Click on Run.

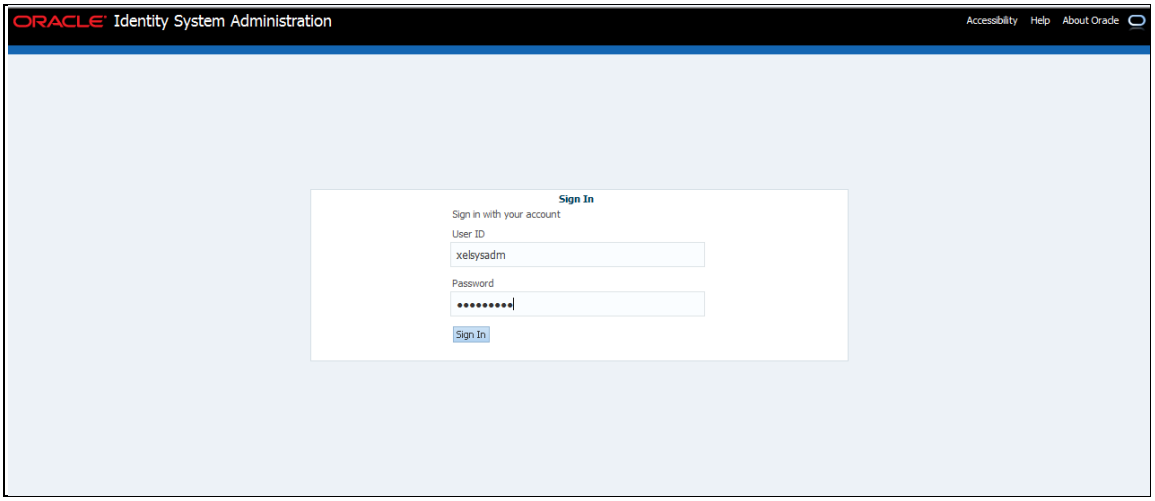



## 5.1.5.1.1 Schedule Task Setup

This step involves setting up Schedule task parameters.

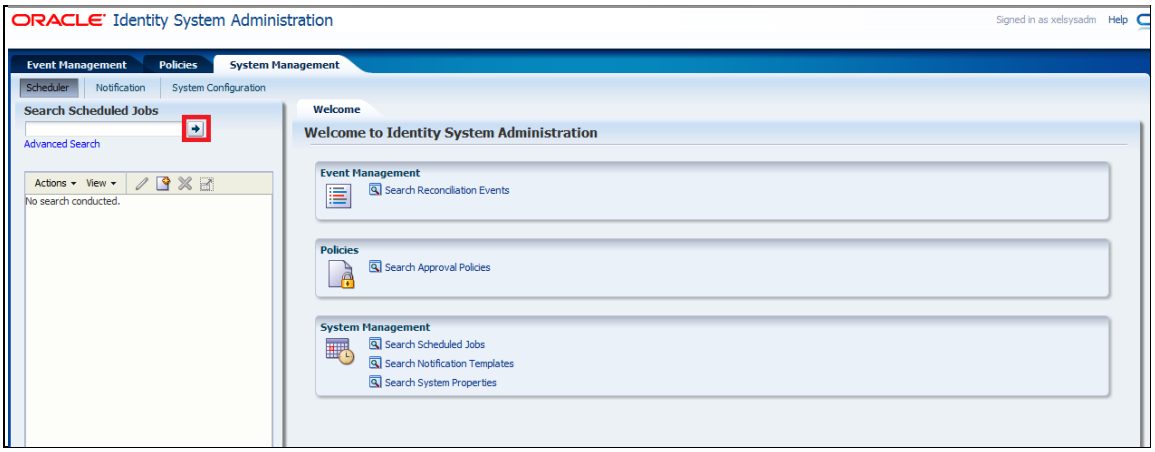
1. Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostname>:<oimport>/sysadmin)

2. Enter OIM administrator username/password and press Login.

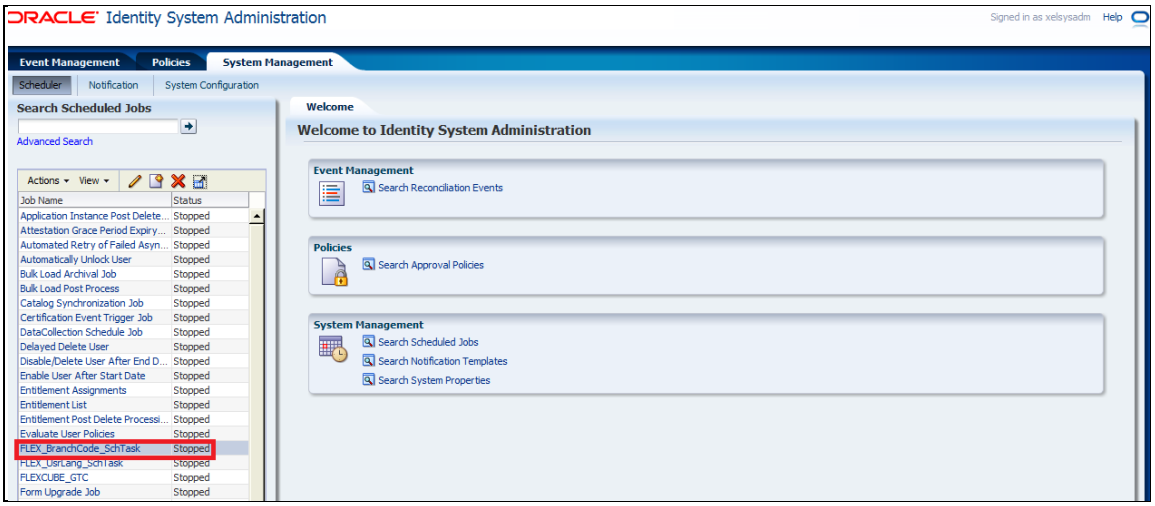



3. Click on Scheduler under System Management.


4. Click on  to Search for Scheduled Job List.



5. Click on FLEX_BranchCode_SchTask.




***6.*** On the Edit Schedule Task screen.

- WebService Url : FCUBSLOVAdService deployed in section [5.1.4.2.1]

https://<hostname>:<ssl_oimport>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI

- Query :

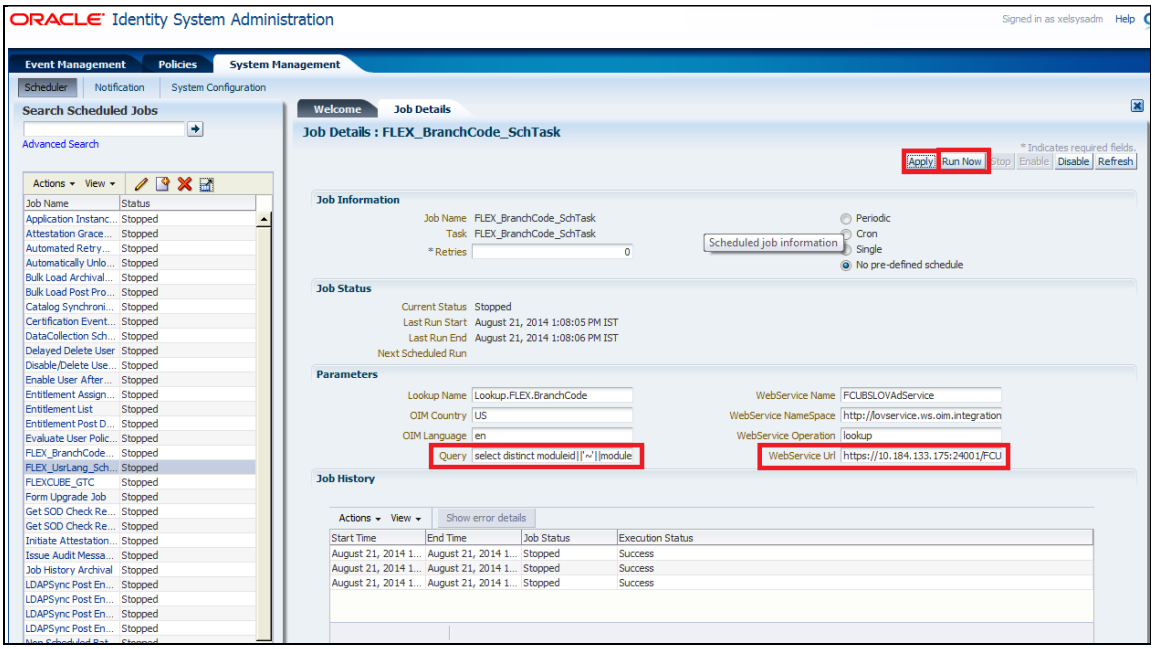
  FCUBS :

  select branch_code||'~'||branch_code from sttm_branch order by branch_code

  FCIS :

  select moduleid||'~'||moduleid from moduleprofilebasetbl where once_auth='Y' order by moduleid

- Click on Apply and Click on Run.

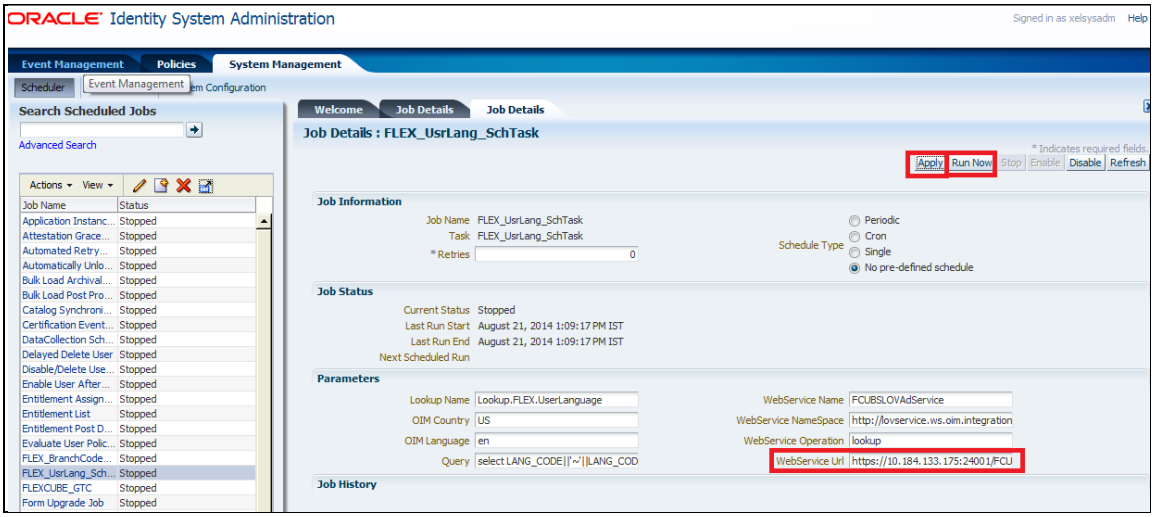

ORACLE Identity System Administration
Signed in as xelsysadm
Help
Event Management
Policies
System Management
Scheduler
Notification
System Configuration
Search Scheduled Jobs
Advanced Search
Actions
View
Job Name
Status
Application Instanc... Stopped
Attestation Grace... Stopped
Automated Retry ... Stopped
Automatically Unlo... Stopped
Bulk Load Archival... Stopped
Bulk Load Post Pro... Stopped
Catalog Synchroni... Stopped
Certification Event... Stopped
DataCollection Sch... Stopped
Delayed Delete User Stopped
Disable/Delete Use... Stopped
Enable User After... Stopped
Entitlement Assign... Stopped
Entitlement List Stopped
Entitlement Post D... Stopped
Evaluate User Polic... Stopped
FLEX_BranchCode... Stopped
FLEX_UsrLang_Sch... Stopped
FLEXCUBE_GTC Stopped
Form Upgrade Job Stopped
Get SOD Check Re... Stopped
Get SOD Check Re... Stopped
Initiate Attestation... Stopped
Issue Audit Messa... Stopped
Job History Archival Stopped
LDAPSync Post En... Stopped
LDAPSync Post En... Stopped
LDAPSync Post En... Stopped
LDAPSync Post En... Stopped
Welcome
Job Details
Job Details : FLEX_BranchCode_SchTask
* Indicates required fields.
Apply
Run Now
Stop
Enable
Disable
Refresh
Job Information
Job Name FLEX_BranchCode_SchTask
Task FLEX_BranchCode_SchTask
* Retries 0
Scheduled job information
Periodic
Cron
Single
No pre-defined schedule
Job Status
Current Status Stopped
Last Run Start August 21, 2014 1:08:05 PM IST
Last Run End August 21, 2014 1:08:06 PM IST
Next Scheduled Run
Parameters
Lookup Name Lookup.FLEX.BranchCode
OIM Country US
OIM Language en
Query select distinct moduleid||'~'||module
WebService Name FCUBSLOVAdService
WebService NameSpace http://lovservice.ws.oim.integration
WebService Operation lookup
WebService Url https://10.184.133.175:24001/FCU
Job History
Actions
View
Show error details
Start Time
End Time
Job Status
Execution Status
August 21, 2014 1... August 21, 2014 1... Stopped Success
August 21, 2014 1... August 21, 2014 1... Stopped Success
August 21, 2014 1... August 21, 2014 1... Stopped Success

***7.*** Modify FLEX_UsrLang_SchTask job

- WebService Url : FCUBSLOVAdService deployed in section 5.1.4.2.1

  https://<hostname>:<ssl_oimport>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI

- Click on Apply and Click on Run.



### 5.1.6 System Configurations

#### 5.1.6.1 Integration Specific Configurations

##### *5.1.6.1.1* FCUBS Configurations

On FCUBS side following configurations need to be done:

- Maintenance of Maker ID
- Maintenance of External Source

Both configurations can be done using FCJ provided screens.

***1.*** Maintenance of Maker ID

The FCJ screen can be open through Security Maintenance >> Users >> Detailed menu or using the function SMDUSRDF.

***2.*** Maintenance of External Source

For OIM request and response handling, an external source should be maintained in FCUBS database.

The FCJ screen can be open through Gateway >> External System >> Detailed menu or using the function 'GWDEXSYS'.

| | | | | |
|---|---|---|---|---|
| This external source should be able to do all operations like Create | Modify | Close | Open | View. This can be maintained through function GWDEXFUN or through Gateway >> External System Functions >> Detailed. Required actions and their corresponding details are given as below. |

| Action | Function | Service Name | Operation Code |
|---|---|---|---|
| NEW | SMGUSRDF | FCUBSSMService | CreateUserMaint |
| UNLOCK | SMGUSRDF | FCUBSSMService | ModifyUserMaint |
| DELETE | SMGUSRDF | FCUBSSMService | DeleteUserMaint |
| CLOSE | SMGUSRDF | FCUBSSMService | CloseUserMaint |
| REOPEN | SMGUSRDF | FCUBSSMService | ReopenUserMaint |
| VIEW | SMQUSRDF | FCUBSSMService | QueryUserMaint |

Ensure that required maintenance has been done for function CODSORCE (Gateway >> Source>>

Detailed) and for function CODUPLDM (Gateway >> Source Preferences >> Detailed menu).

For maintenance of amendable fields in GWTM_AMEND_NODES and GWTM_AMEND_FIELDS entries can be made using the function STDAMDMT or through Gateway >> Amendment Maintenance >> Detailed. Following table gives the amendable node and fields details that should be maintained.

| **Field Name** | **Value** |
|---|---|
| Amend Nodes section | |
| Node Name | SMTB_USER |
| New Allowed | Checked |
| Delete Allowed | Checked |
| All Records | Checked |
| Amend Fields section | |
| Field Name | HOME_BRANCH |
| Field Name | START_DATE |
| Field Name | TIME_LEVEL |
| Field Name | USER_LANGUAGE |
| Field Name | USER_NAME |
| Field Name | USER_PASSWORD |
| Field Name | SALT |

### 5.1.6.2 OIM Configurations

**OID Connector Configuration**

For FLEXCUBE single sign on mode, the provisioning process consist of user creation in underlying LDAP directory and then provsioining into FLEXCUBE. OIM porvides out of box connectors for LDAP directorires. This connectors provides facility to connect with LDAP and to do the operation through OIM console.

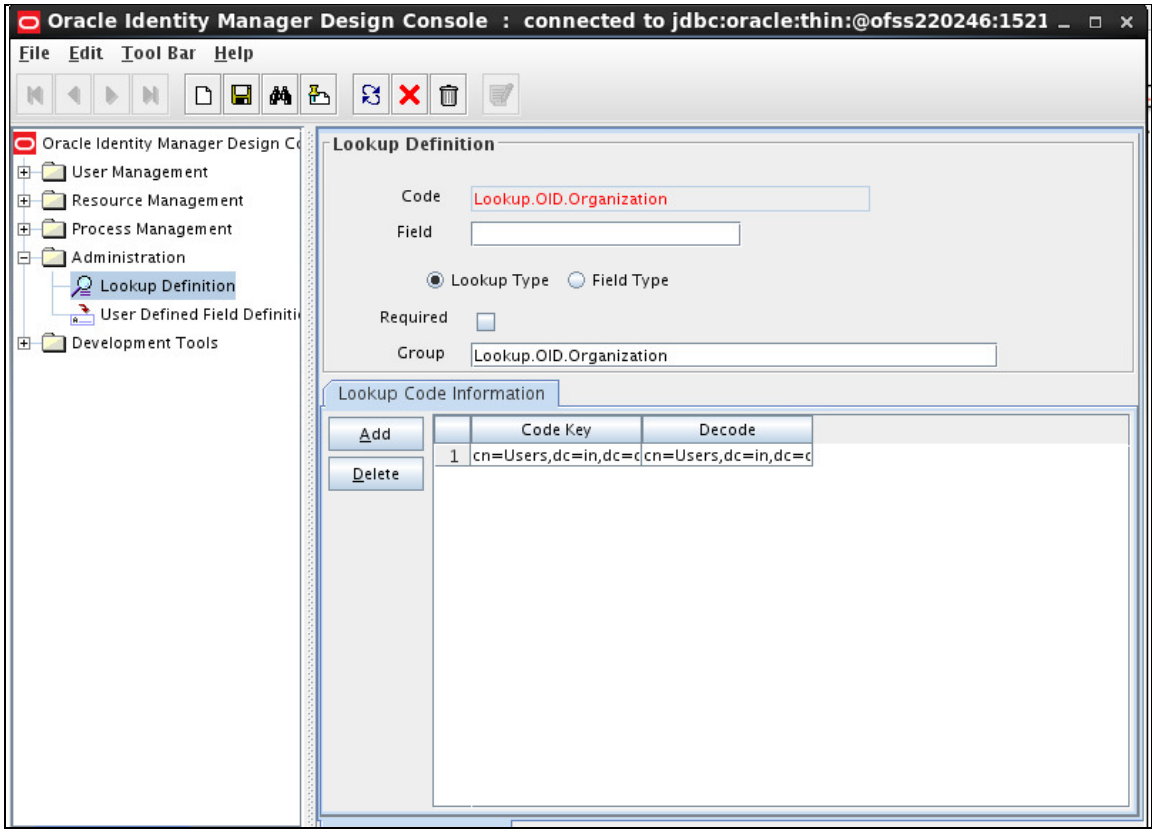
In this integration, the underlying directory for Oracle access manager is Oracle Internet Directory. OIM porvides out of box connector for it that need to be imported as the connector document provided by OIM. After import, following steps should be followed :

***1.*** Login to the Design Console.


Oracle Identity Manager Design Cons
Welcome To
ORACLE
Oracle Identity Manager
Design Console
User ID
xelsysadm
Password
Version
11.1.2.2.0.0.0
Login
Cancel

***2.*** Navigate to the Administration>>Lookup Definition menu

3. Enter the below details:
   - Code: Lookup.OID.Organization
   - Click on **Search** Icon
   - Click on **Add** Add button
   - Enter the below details:
   - Code Key : cn=Users,dc=in,dc=oracle,dc=com
   - Decode : cn=Users,dc=in,dc=oracle,dc=com
   4. Click on Save .

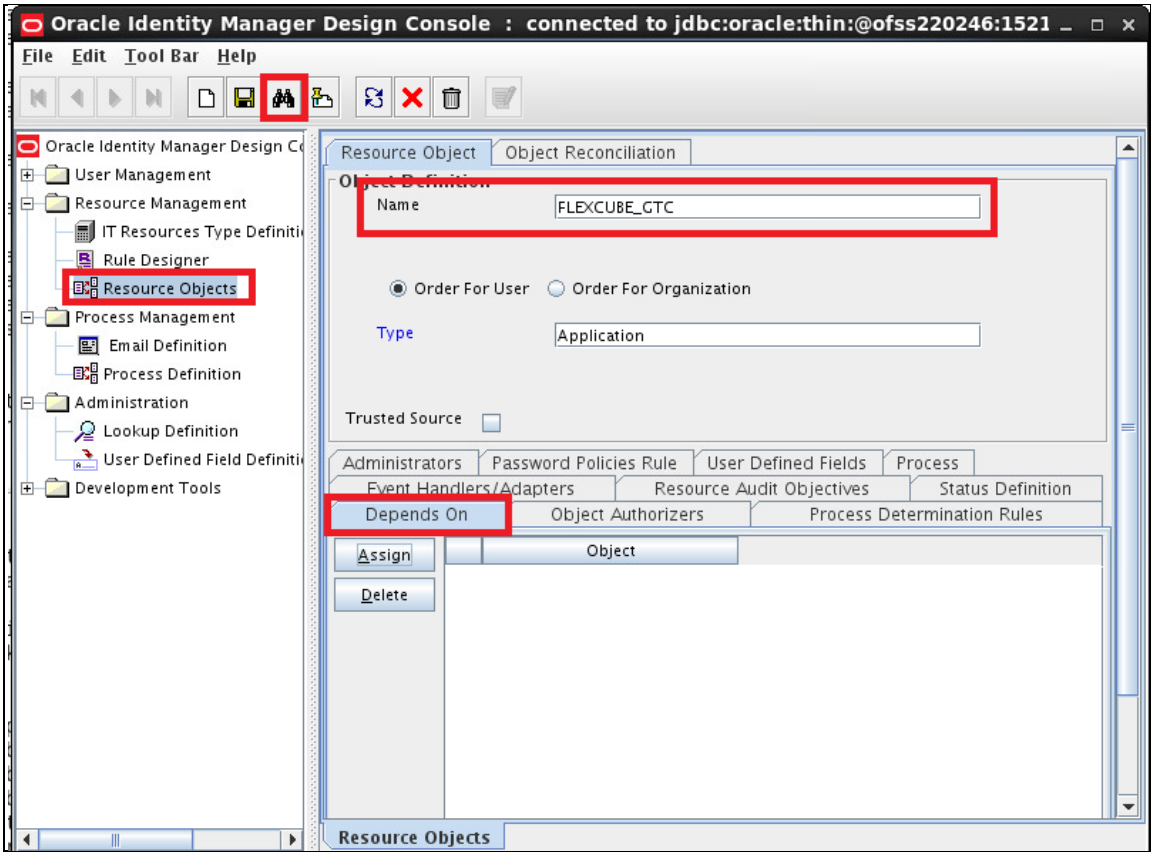



***5.*** Navigate to the Administration>>Lookup Definition menu

6. Enter the below details:
   - Code: Lookup.OID.UM.ProvAttrMap
   - Click on Search Icon
   - Modify the Decode value for Code Key Name:
   - From : __NAME__="uid=${User_ID},${Container_DN}"
   - To : __NAME__="cn=${User_ID},${Container_DN}"
7. Click on Save .

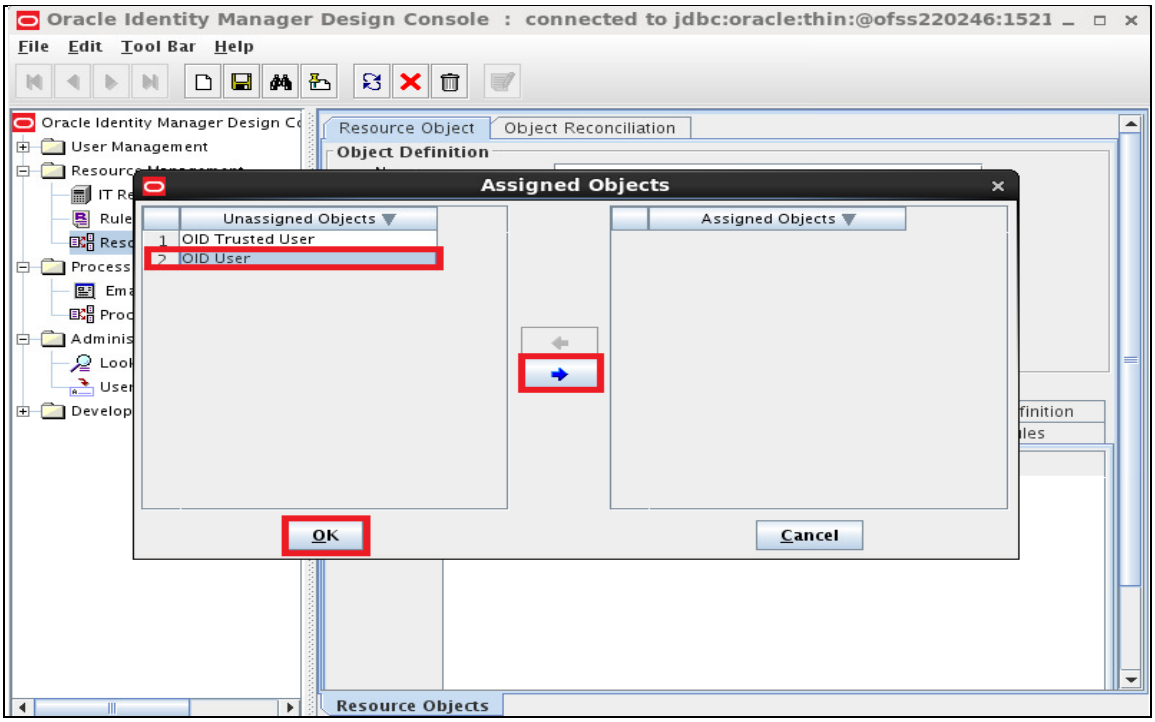
***8.*** Navigate to the Resource Management>>Resource Objects menu. This will open a blank screen.

9. Enter FLEXCUBE_GTC in Name box.
10. Click on Search icon.
11. This will show the definition for resource FLEXCUBE_GTC. Click on Assign button in Depends On tab.



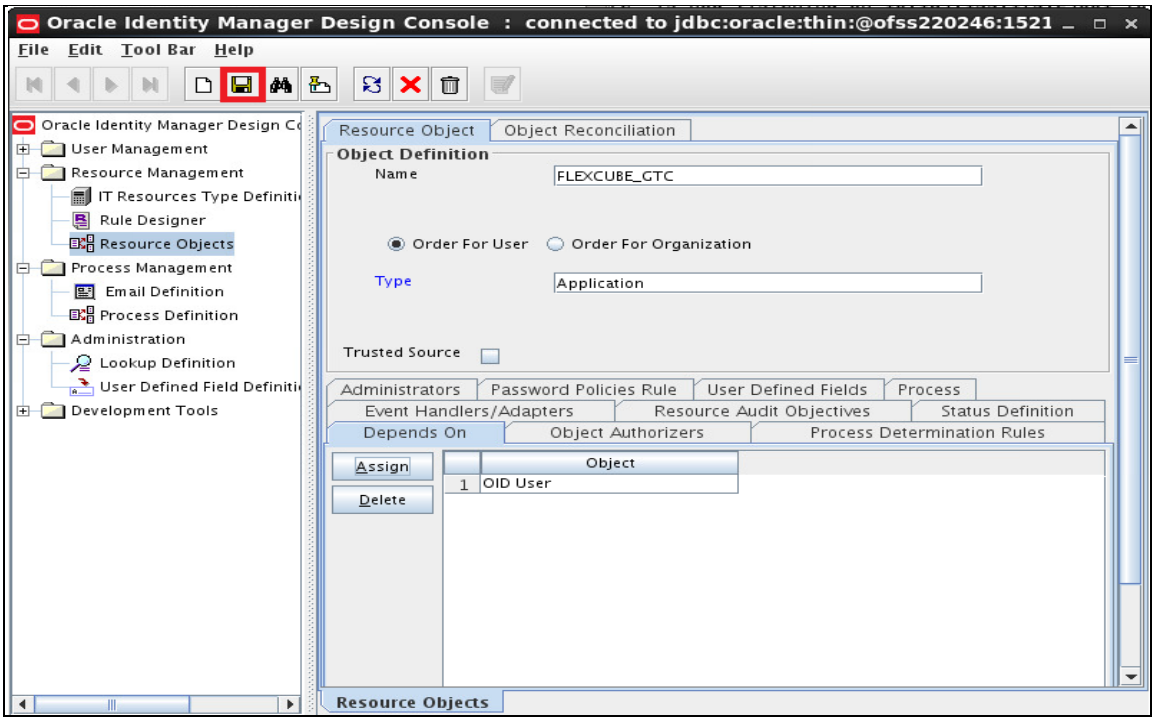

***12.*** Select the OID User from the Unassigned Objects list. Click on the arrow pointed to Assigend objects.

13. Click on OK.This will move OID user resource to Assigned objects.




Ensure that OID User will be shown under Object.

14. Click on Save.

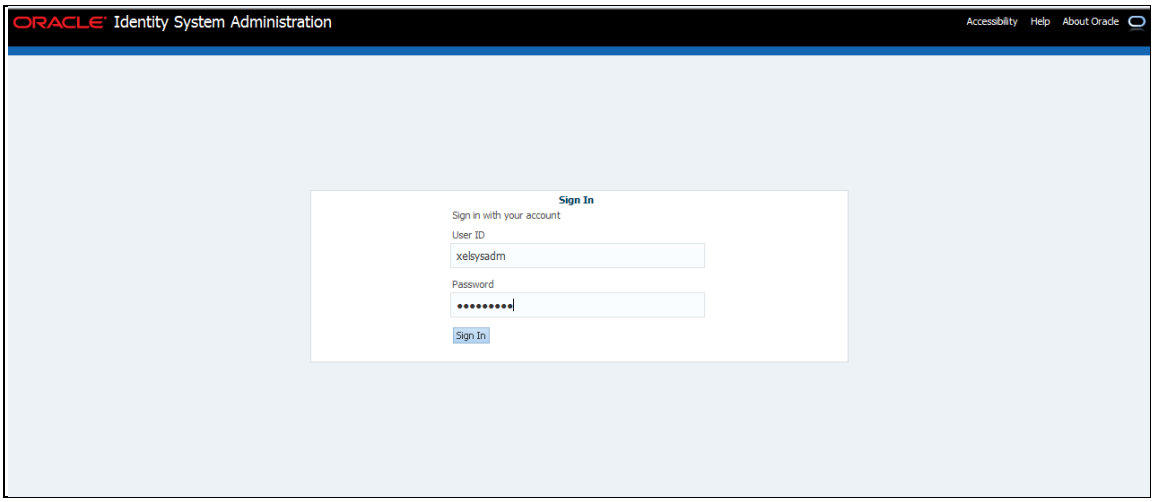



**Access Policy Creation for OID**

1. Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostname>:<oimport>/sysadmin)

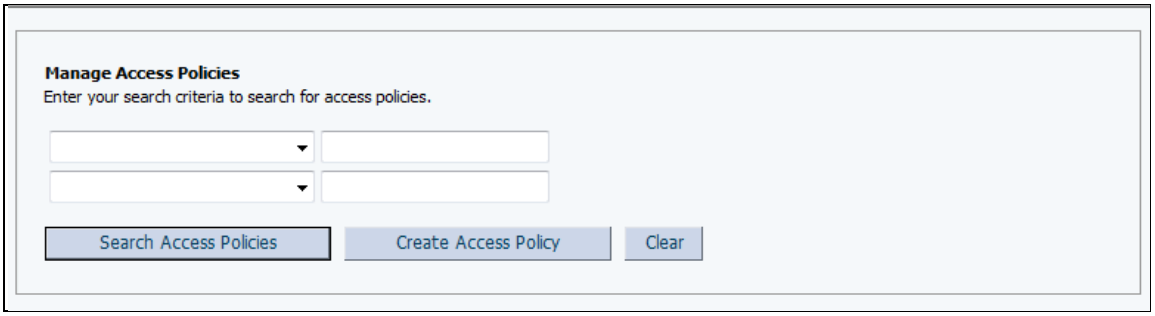
***2.*** Login to Administrative Console

3. Enter OIM administrator username/password and press Sign In.



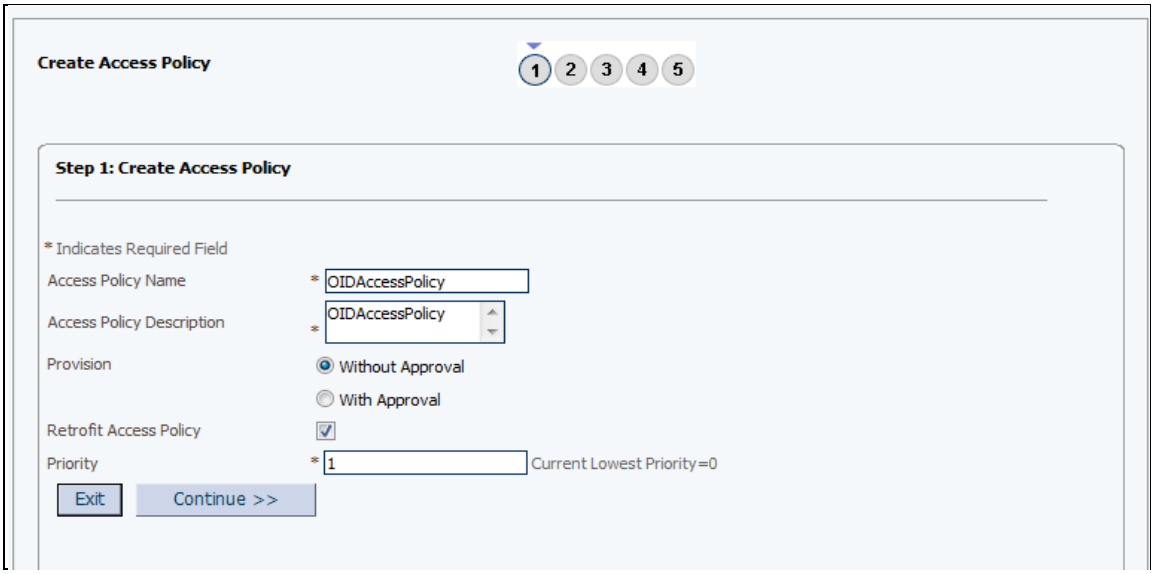
4. Click on Access Policies under Policies.


5. Click on Create Access Policy.



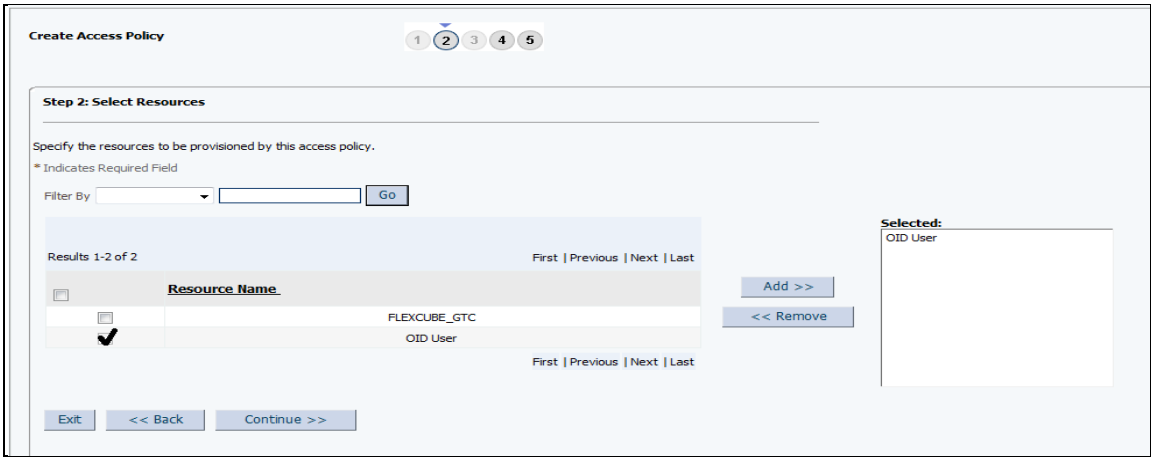
***6.*** Enter the below details and Click on Continue

- Access Policy Name : OIDAccessPolicy
- Access Policy Description : OIDAccessPolicy
- Provision : Without Approval
- Retrofit Access Policy : Yes
- Priority : 1

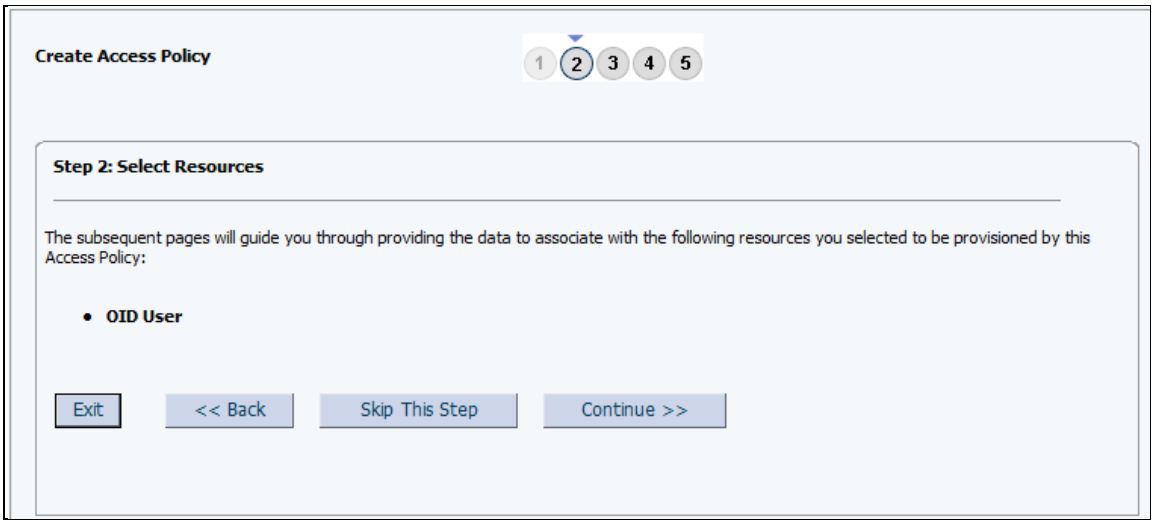



***7.*** Perform the below mentioned Operations and Click on Continue.

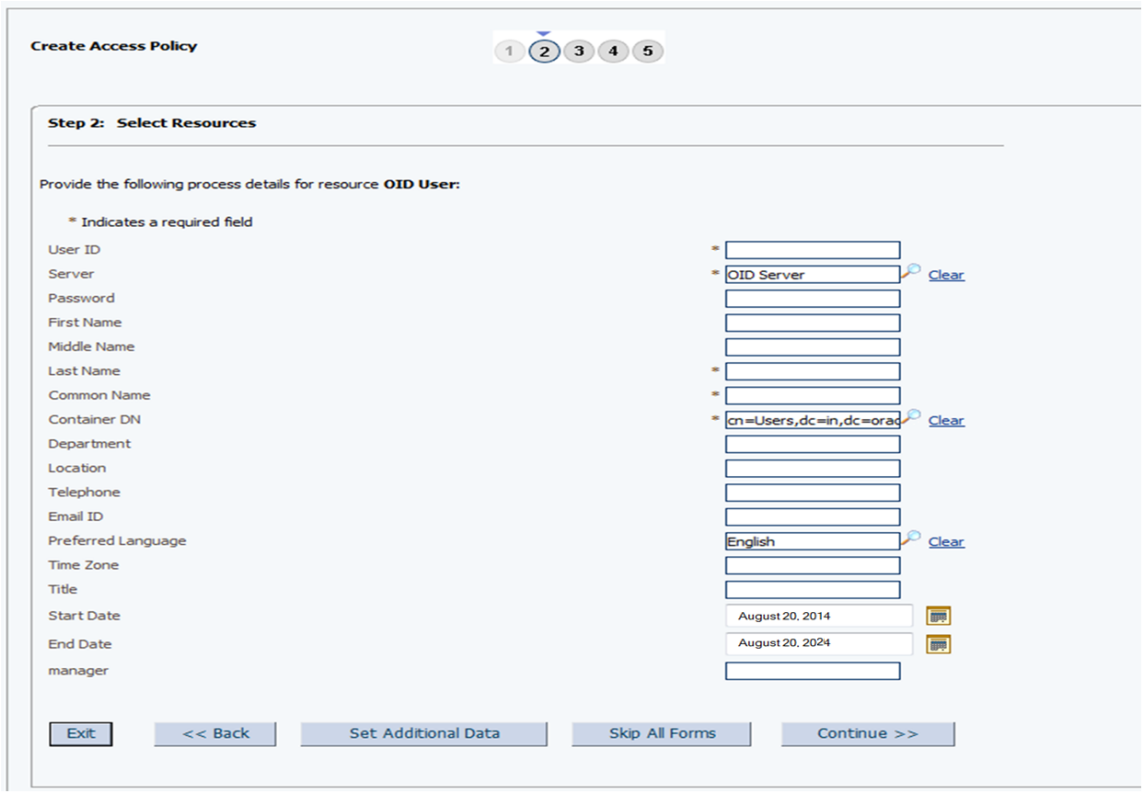
- Select OID User
- Click on Add Button



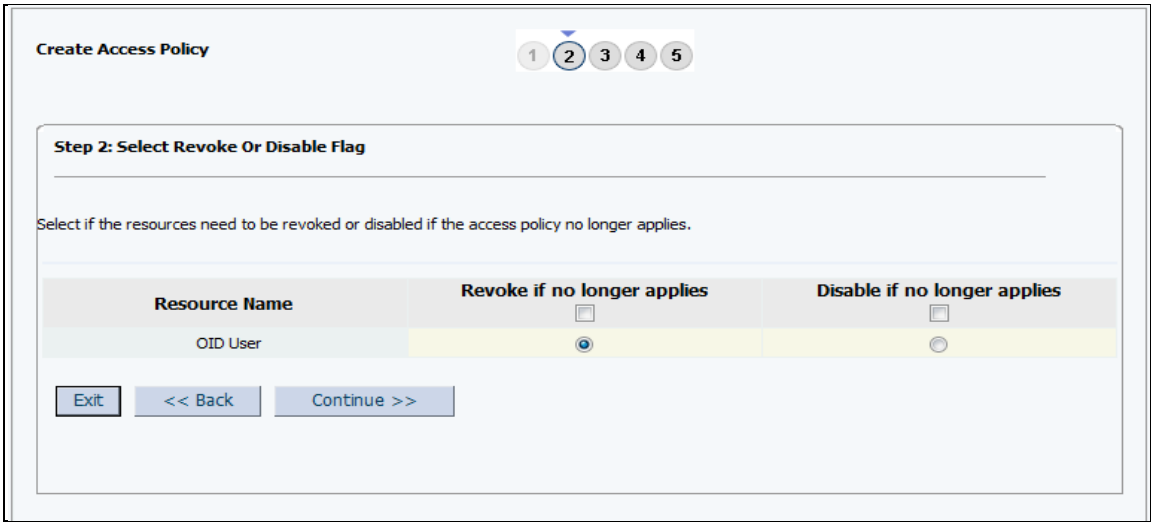
8. Click on Continue.



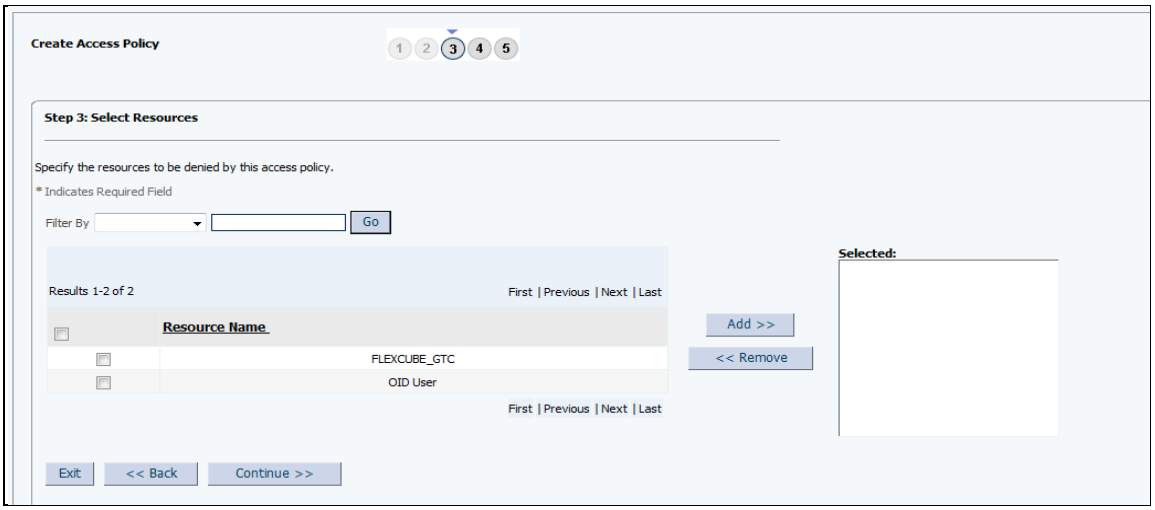

9. Select the below Details and Click on Continue.
   - Server : OID Server
   - Container DN : cn=Users,dc=in,dc=oracle,dc=com
   - Preferred Language : English
   - Start Date : August 20, 2014 (Current Date)



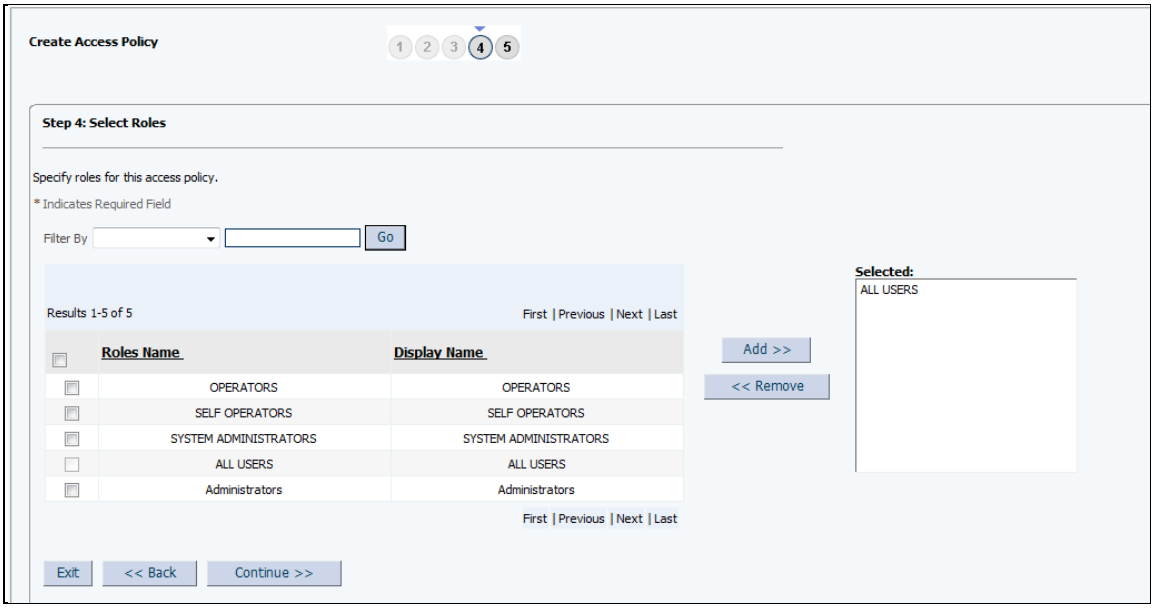

10. Click on Continue.



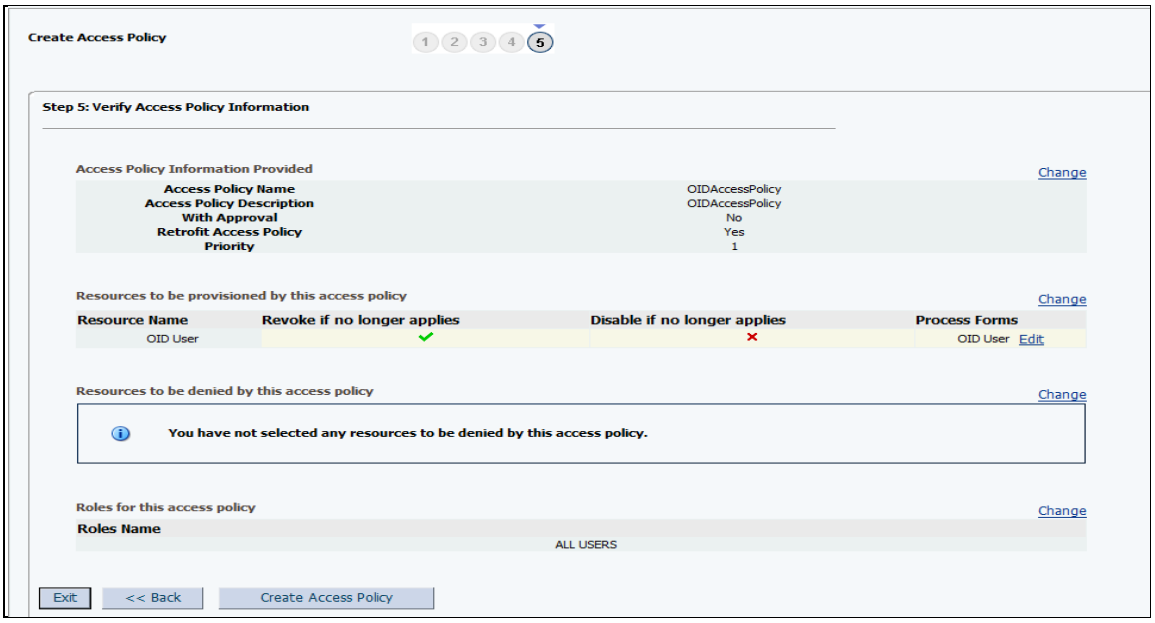

***11.*** Click on Continue.




12. Select ALL USERS and Click on Continue.

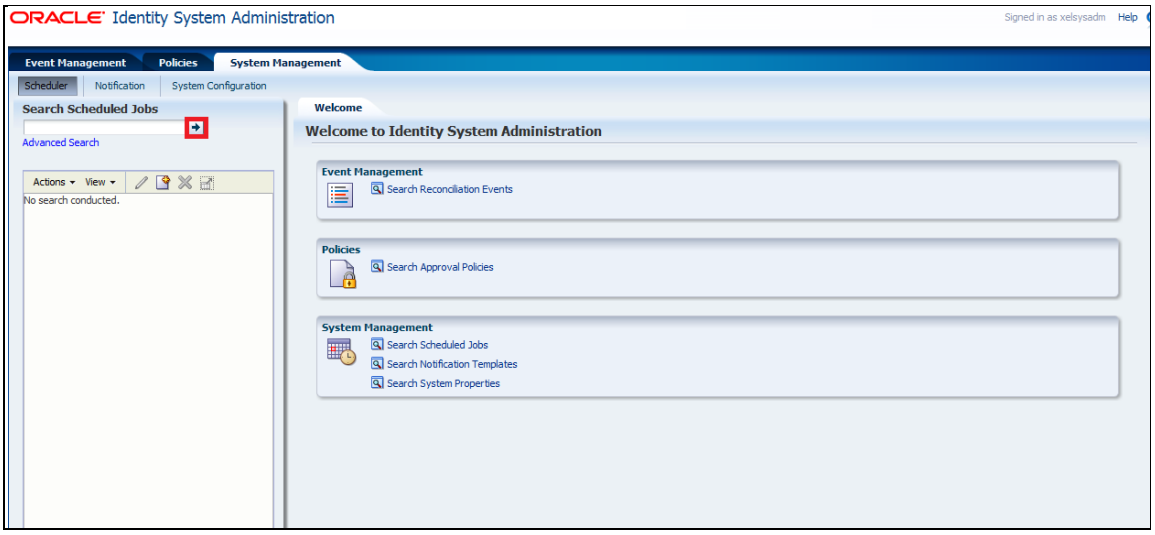


13. Click on Create Access Policy.

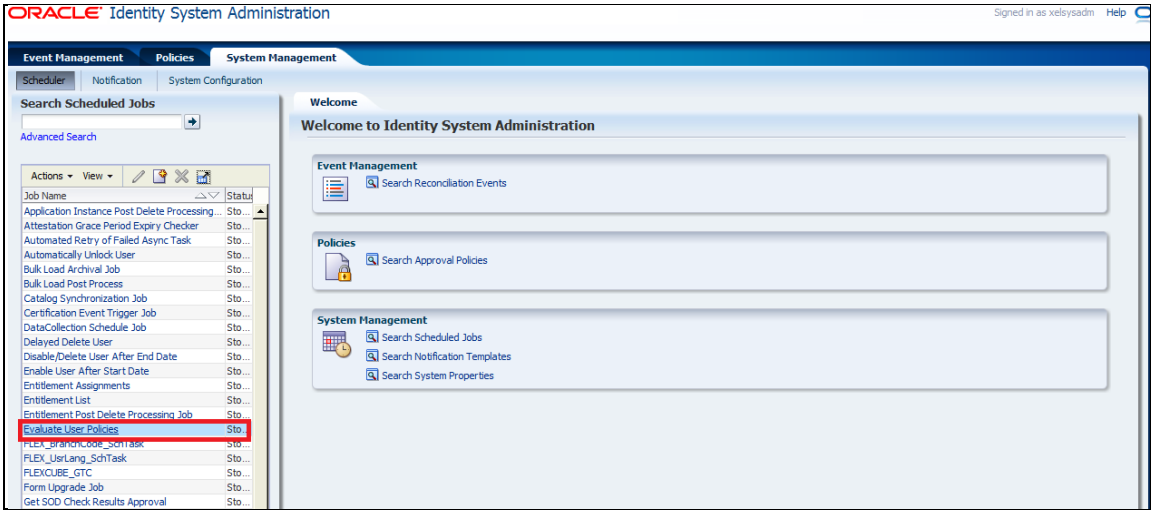



14. Click on Scheduler under System Management.


***15.*** Click on Search shown below:



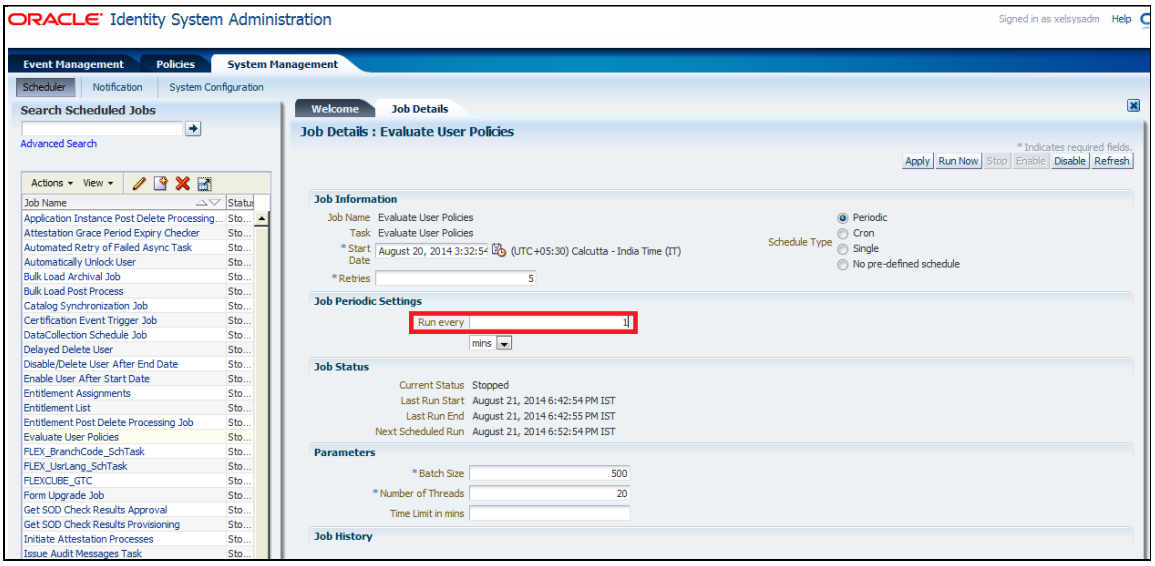

16. Select Evaluate User Policies.




***17.*** Change the Run Every under Job Periodic Setting.

18. Click on Apply.

Run Every to 1 mins will evaluate the New User Created in Oracle Identity Management Server against the access policies created. If the new user satisfied by the access policy then it will Provision the user to User Account. In this case it's Oracle Internet Directory.


ORACLE Identity System Administration
Signed in as xelsysadm
Help
Event Management
Policies
System Management
Scheduler
Notification
System Configuration
Search Scheduled Jobs
Advanced Search
Actions
View
Job Name
Status
Application Instance Post Delete Processing...
Attestation Grace Period Expiry Checker
Automated Retry of Failed Async Task
Automatically Unlock User
Bulk Load Archival Job
Bulk Load Post Process
Catalog Synchronization Job
Certification Event Trigger Job
DataCollection Schedule Job
Delayed Delete User
Disable/Delete User After End Date
Enable User After Start Date
Entitlement Assignments
Entitlement List
Entitlement Post Delete Processing Job
Evaluate User Policies
FLEX_BranchCode_SchTask
FLEX_UsrLang_SchTask
FLEXCUBE_GTC
Form Upgrade Job
Get SOD Check Results Approval
Get SOD Check Results Provisioning
Initiate Attestation Processes
Issue Audit Messages Task
Welcome
Job Details
Job Details : Evaluate User Policies
* Indicates required fields.
Apply
Run Now
Stop
Enable
Disable
Refresh
Job Information
Job Name Evaluate User Policies
Task Evaluate User Policies
* Start Date August 20, 2014 3:32:5
(UTC+05:30) Calcutta - India Time (IT)
* Retries 5
Schedule Type
Periodic
Cron
Single
No pre-defined schedule
Job Periodic Settings
Run every 1
mins
Job Status
Current Status Stopped
Last Run Start August 21, 2014 6:42:54 PM IST
Last Run End August 21, 2014 6:42:55 PM IST
Next Scheduled Run August 21, 2014 6:52:54 PM IST
Parameters
* Batch Size 500
* Number of Threads 20
Time Limit in mins
Job History

# 6. Solution / Usage Guidelines

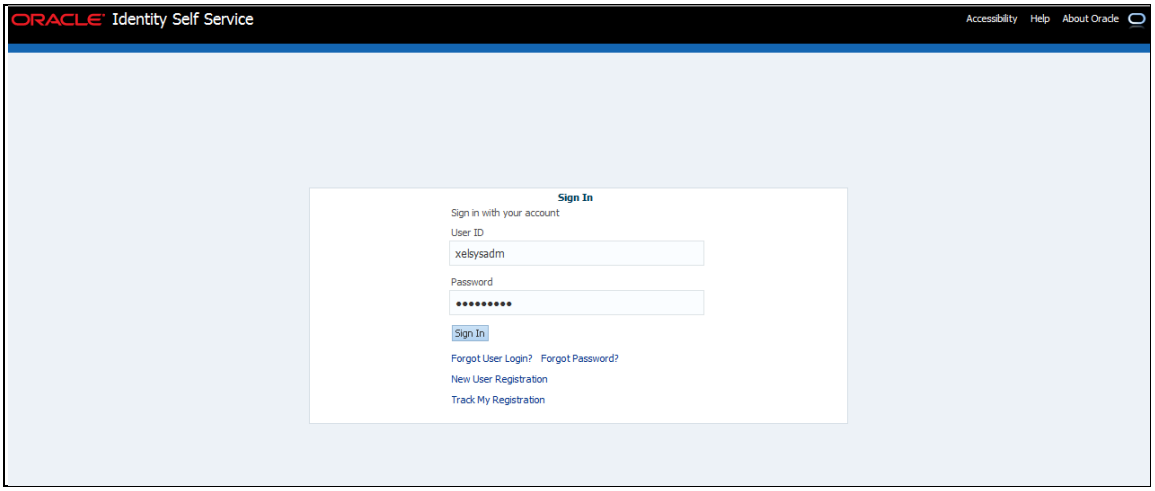
## 6.1 Working with OIM

### 6.1.1 Creating a user in FLEXCUBE through OIM

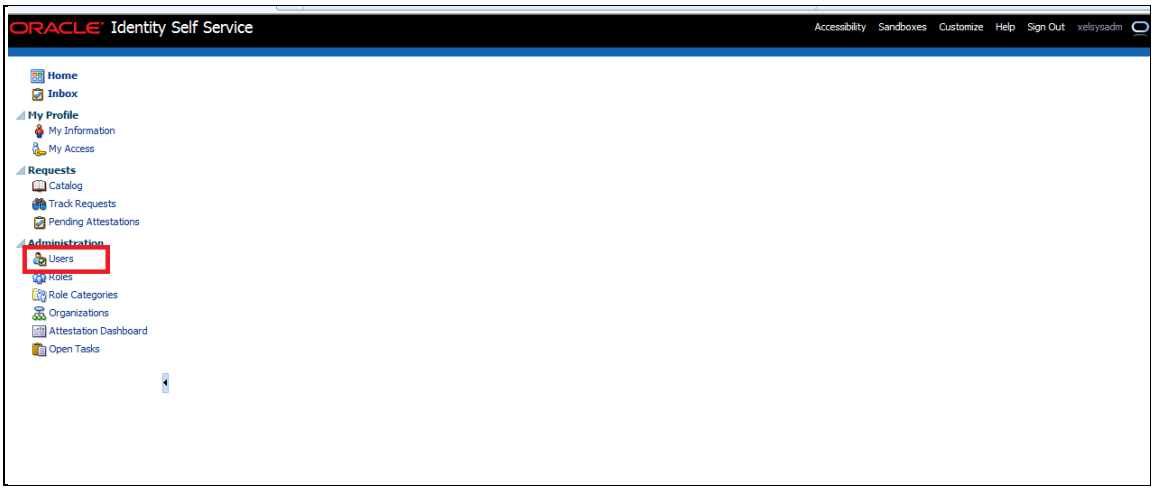
To create a user in FLEXCUBE through OIM, first a user must be created in OIM itself. After creating a user in OIM, a user can be created in FLEXCUBE by assigning a resource named FLEXCUBE_GTC.

Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostName>:<oimport>/identity)

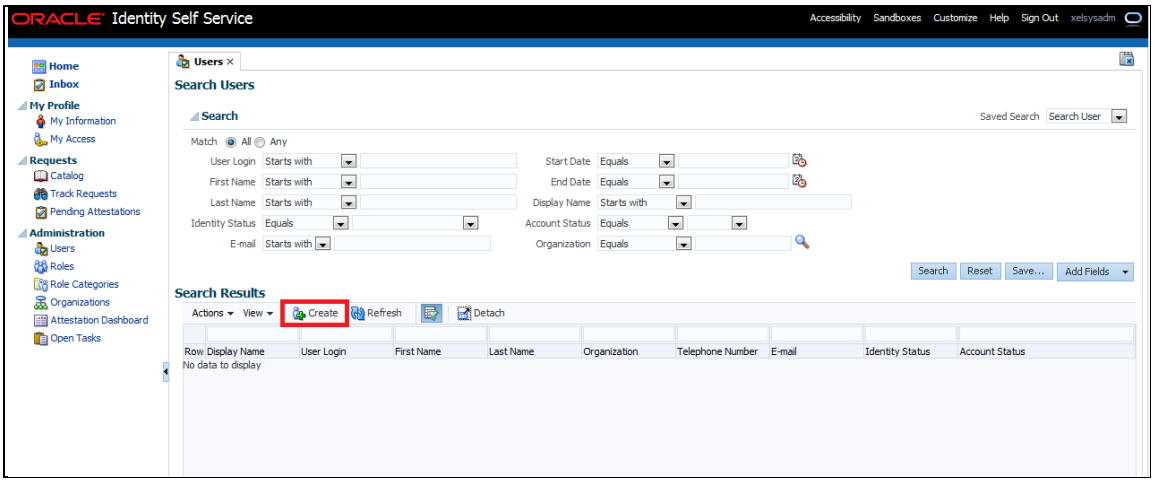
1. Login to Administrative Console
2. Enter OIM administrator username/password and press **Login.**



3. Click on Users under Administration.




4. Click on Create

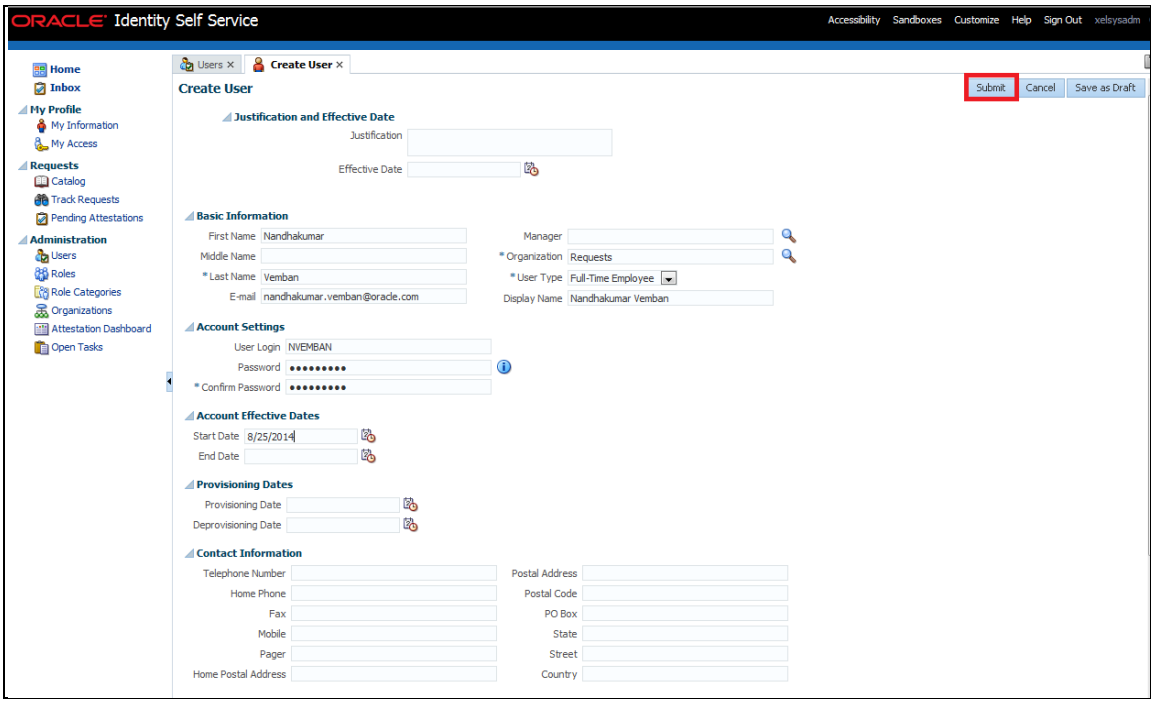


The Create User screen will get displayed.

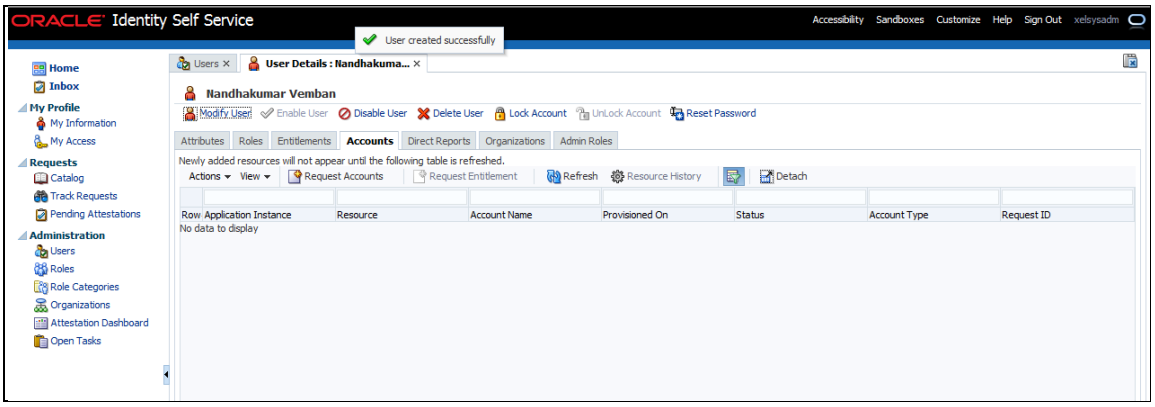
Below are the mandatory fields, which needs to be entered to Create the User in Oracle Identity Manager

- First Name
- Last Name
- Organization
- User Type
- E-mail
- Display Name
- User Login
- Password
- Confirm Password
- Start Date

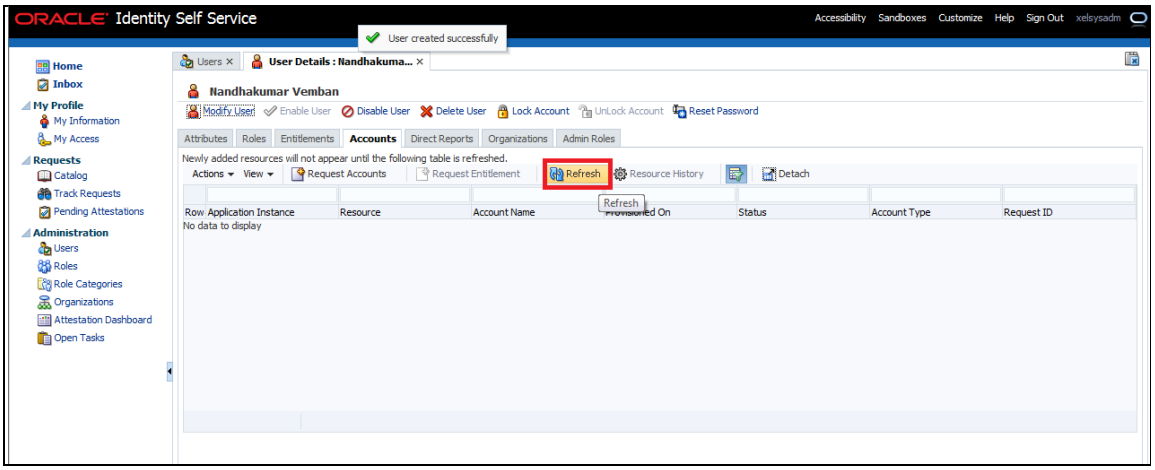
5. Click on Submit.



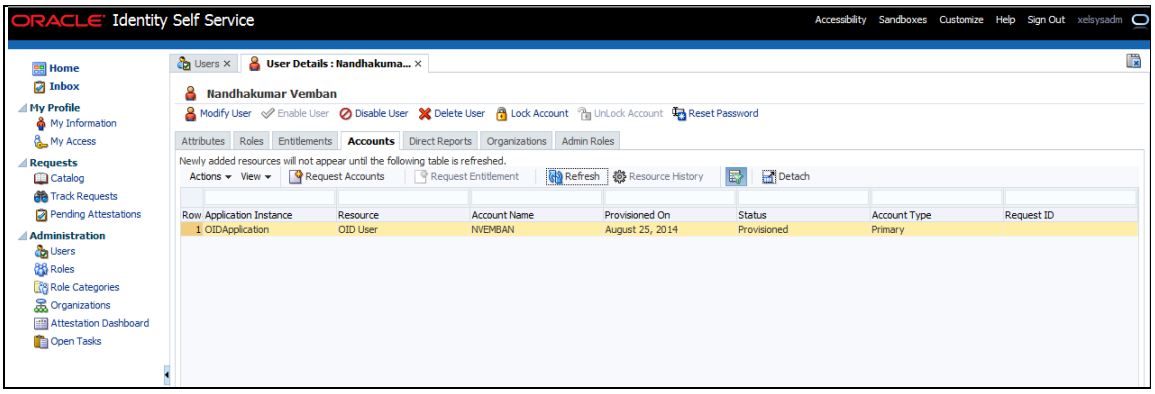

On successful creation of user in OIM User Detail screen will get appeared.


ORACLE Identity Self Service
Accessibility
Sandboxes
Customize
Help
Sign Out
xelsysadm
User created successfully
Home
Inbox
My Profile
My Information
My Access
Requests
Catalog
Track Requests
Pending Attestations
Administration
Users
Roles
Role Categories
Organizations
Attestation Dashboard
Open Tasks
Users
User Details : Nandhakuma...
Nandhakumar Vemban
Modify User
Enable User
Disable User
Delete User
Lock Account
UnLock Account
Reset Password
Attributes
Roles
Entitlements
Accounts
Direct Reports
Organizations
Admin Roles
Newly added resources will not appear until the following table is refreshed.
Actions
View
Request Accounts
Request Entitlement
Refresh
Resource History
Detach
Row
Application Instance
Resource
Account Name
Provisioned On
Status
Account Type
Request ID
No data to display

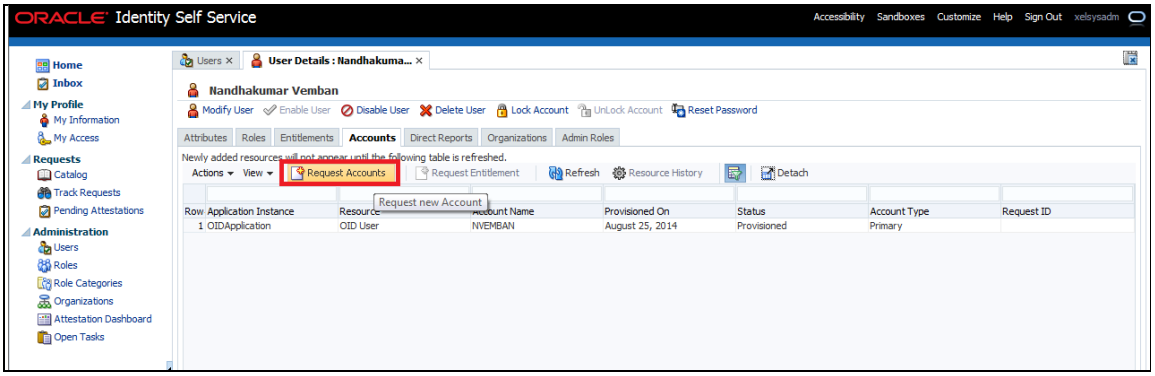
Wait for Time, which has been set to evaluate the user access policy in 5.1.6.2.2.15 and Click on Refresh.



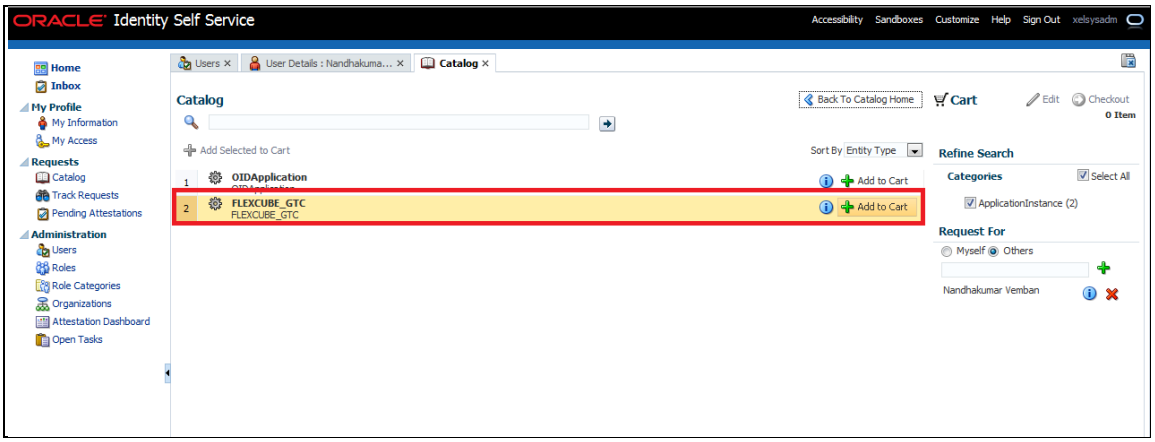

6. In the Accounts TAB, User will be provisioned with OID User Resource Type.



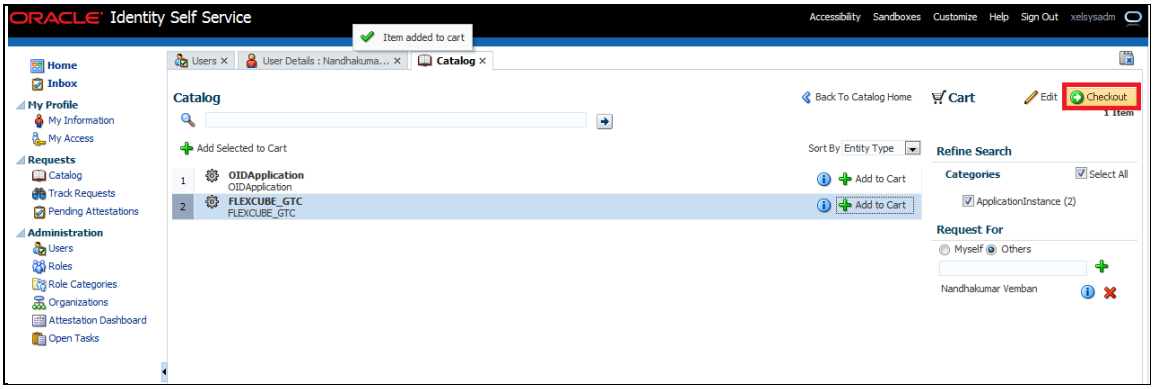

7. Click on Request Accounts.



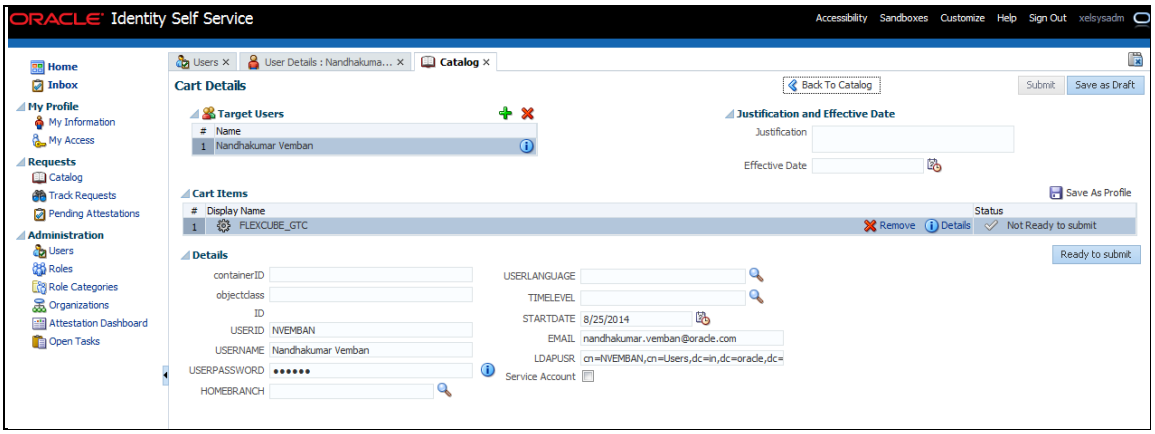
8. Click on Add to Cart against FLEXCUBE_GTC.




9. Click on Checkout



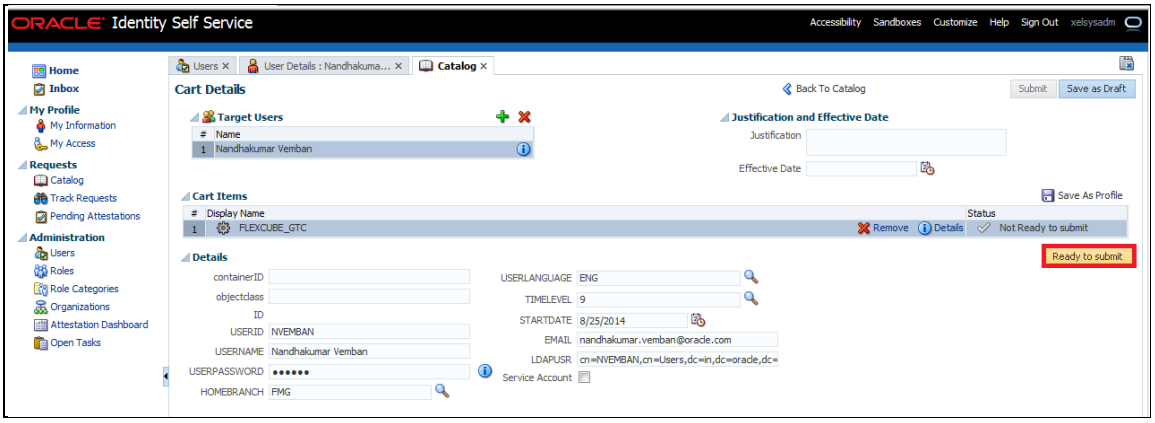

Following screen will appear like below:



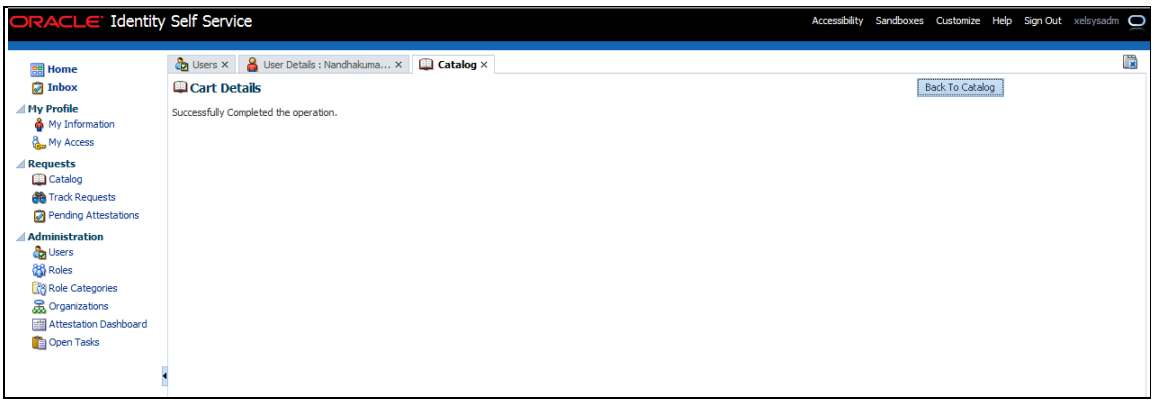
10. Enter the below details and Click on Ready to Submit.

    - HOMEBRANCH
    - USERLANGUAGE
    - TIMELEVEL

    In case like have a different FLEXCUBE USERID populated then it can be modified ( only during Request Account in FLEXCUBE), do not modify any other value, which is pre-populated in this screen.

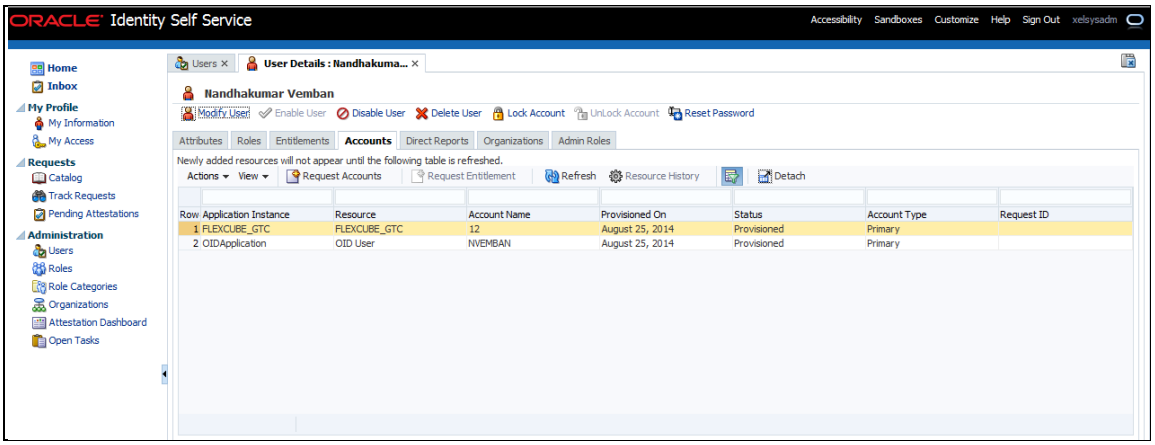



11. Click on Submit.



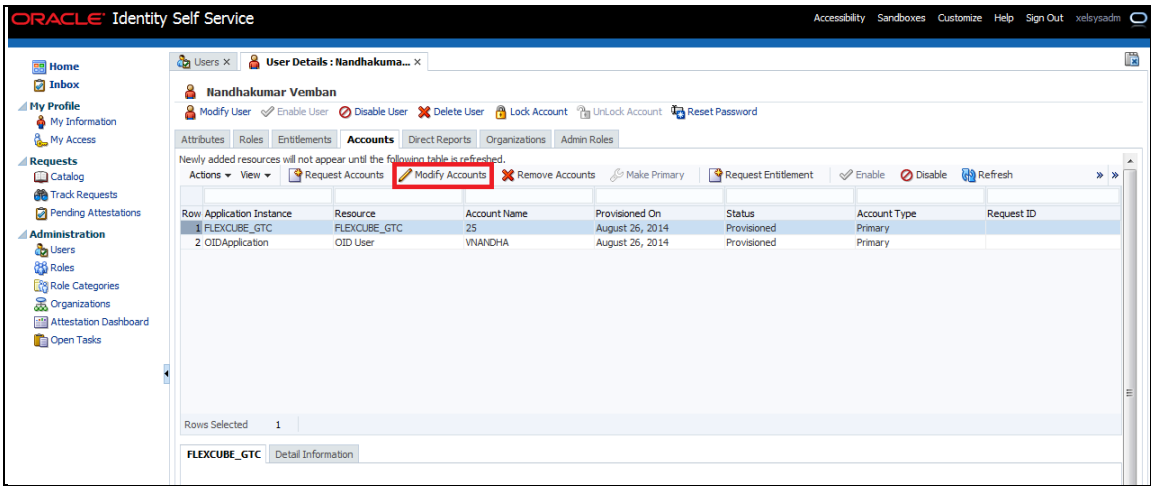

12. Click on Refresh under Accounts TAB.

If the status is provisioned then the User is created in the Target Application.



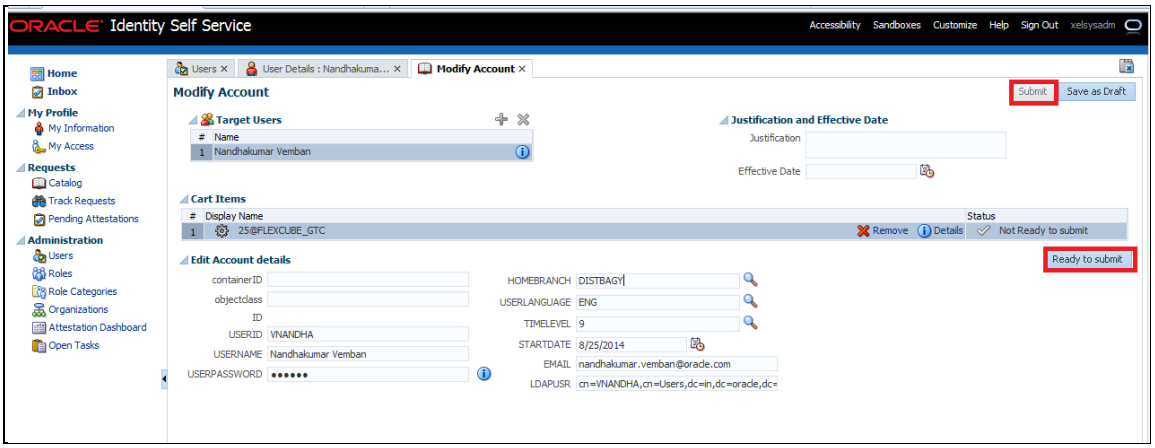

## 6.1.2 Modifying a user in FCUBS through OIM

1. Navigate to the Accounts TAB>>Select FLEXCUBE_GTC >> Click on Modify Accounts.
2. After successful provisioning User Details like User Name, Time Level, User Language and Home Branch can be modified.
3. User Password, Email, LDAP User, Start Date Cannot be modified.



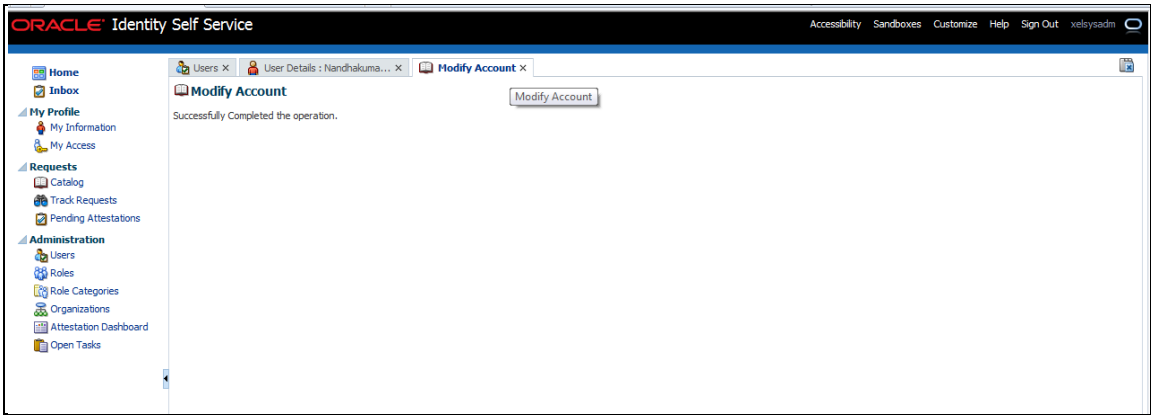

The following screen is displayed.

4. Modify the data (Any/All of User Name, Time Level, Home Branch and User Language).
5. Click on Ready to Submit.
6. Click on Submit.

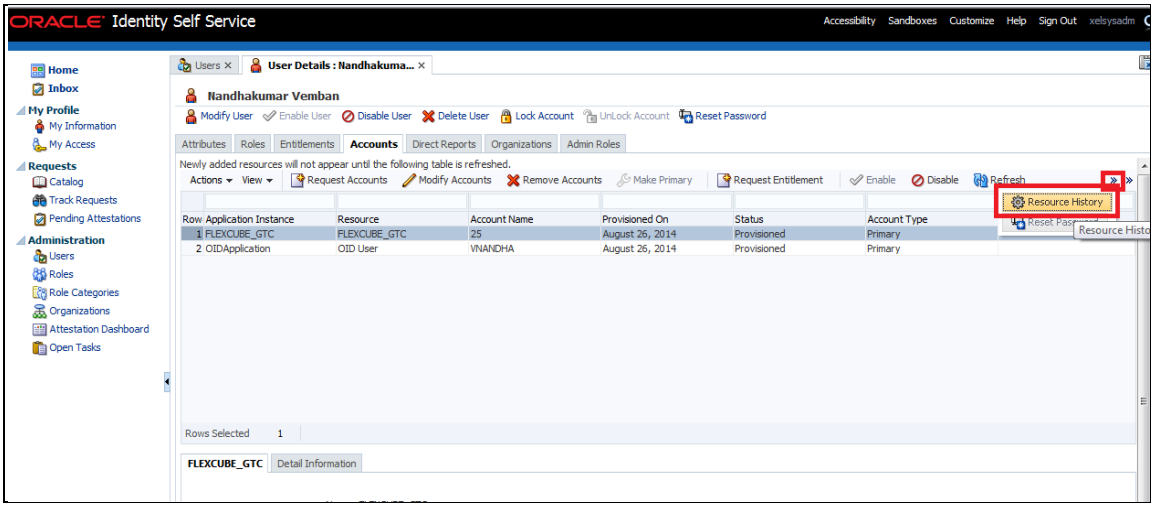

ORACLE Identity Self Service
Accessibility
Sandboxes
Customize
Help
Sign Out
xelsysadm
Home
Inbox
My Profile
My Information
My Access
Requests
Catalog
Track Requests
Pending Attestations
Administration
Users
Roles
Role Categories
Organizations
Attestation Dashboard
Open Tasks
Users
User Details : Nandhakuma...
Modify Account
Modify Account
Submit
Save as Draft
Target Users
Name
Nandhakumar Vemban
Justification and Effective Date
Justification
Effective Date
Cart Items
Display Name
Status
25@FLEXCUBE_GTC
Remove
Details
Not Ready to submit
Ready to submit
Edit Account details
containerID
objectclass
ID
USERID
VNANDHA
USERNAME
Nandhakumar Vemban
USERPASSWORD
HOMEBRANCH
DISTBAGY
USERLANGUAGE
ENG
TIMELEVEL
9
STARTDATE
8/25/2014
EMAIL
nandhakumar.vemban@oracle.com
LDAPUSR
cn=VNANDHA,cn=Users,dc=in,dc=oracle,dc=

The following screen is displayed.

7. Close the Screen.

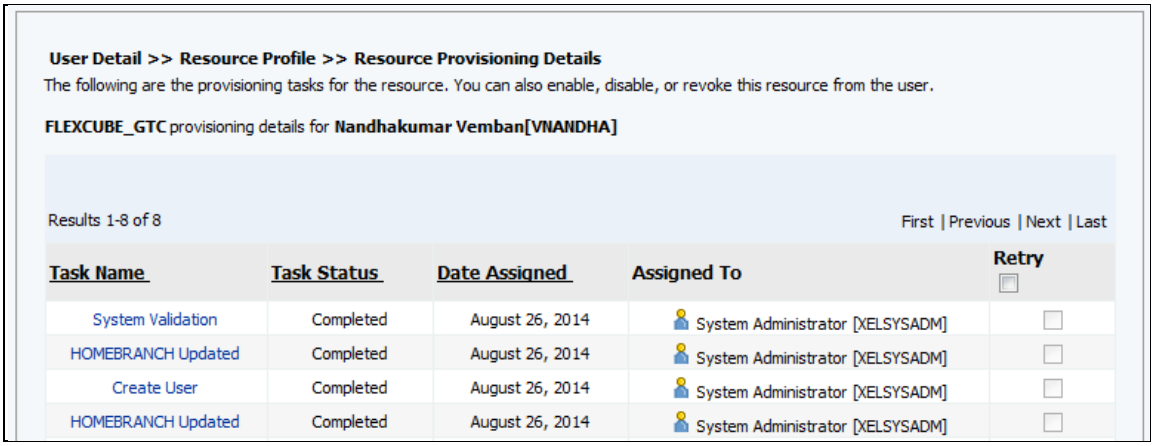



8. Navigate to the Accounts >> Select FLEXCUBE_GTC >> Resource History



The following screen is displayed.

9. Based on the modification done it will show the individual field change status (In case of more than one field like User Name, User Password changes it will show USERNAME Updated, HOMEBRANCH Updated etc.).

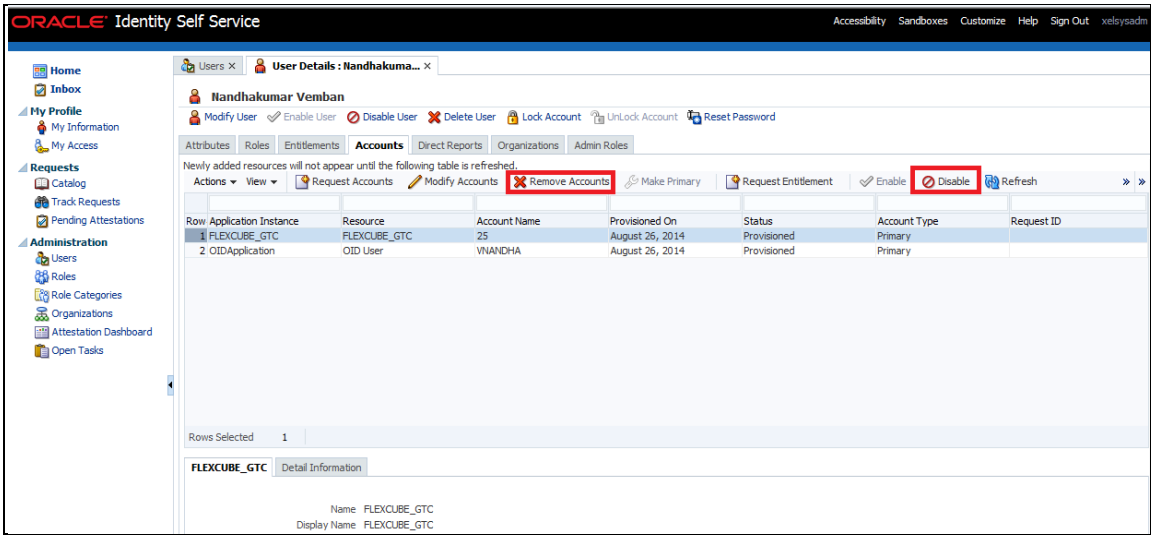



## 6.1.3 Disable/Remove Accounts in FCUBS through OIM

There is a slight difference between Disable and Remove Accounts option. If the account disabled then the same account can be enabled using the Enable option. If the account is Removed then the account cannot be enabled through OIM. But in FCUBS, both Disable and Remove option will close the existing user record.

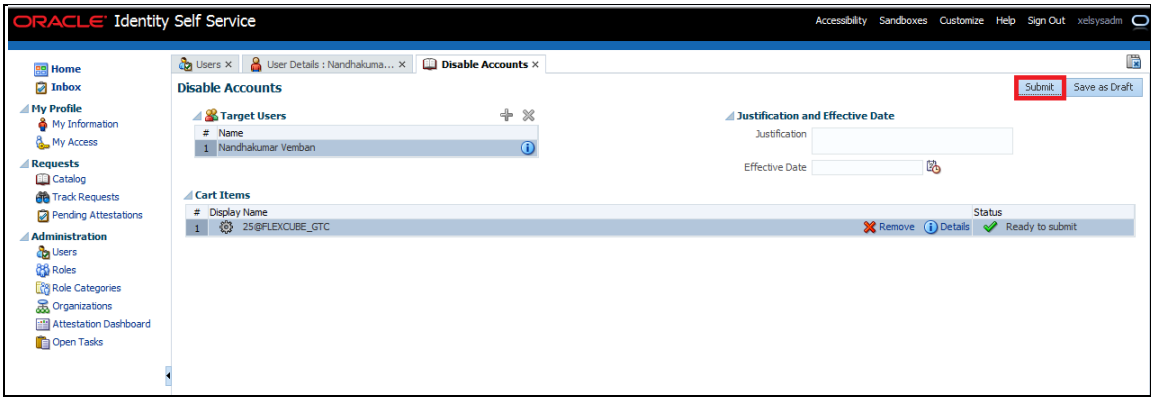
Remove Accounts will show the Last Known Status

### 6.1.3.1 Accounts>>Select FLEXCUBE_GTC >>Click on Disable/Remove Accounts



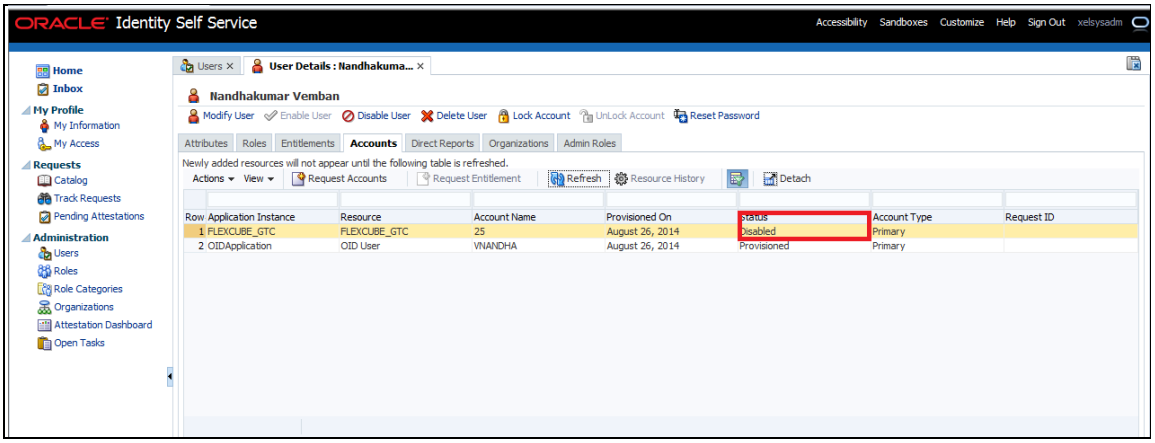
Disable Confirmation Screen will get displayed

10. Click on Submit.



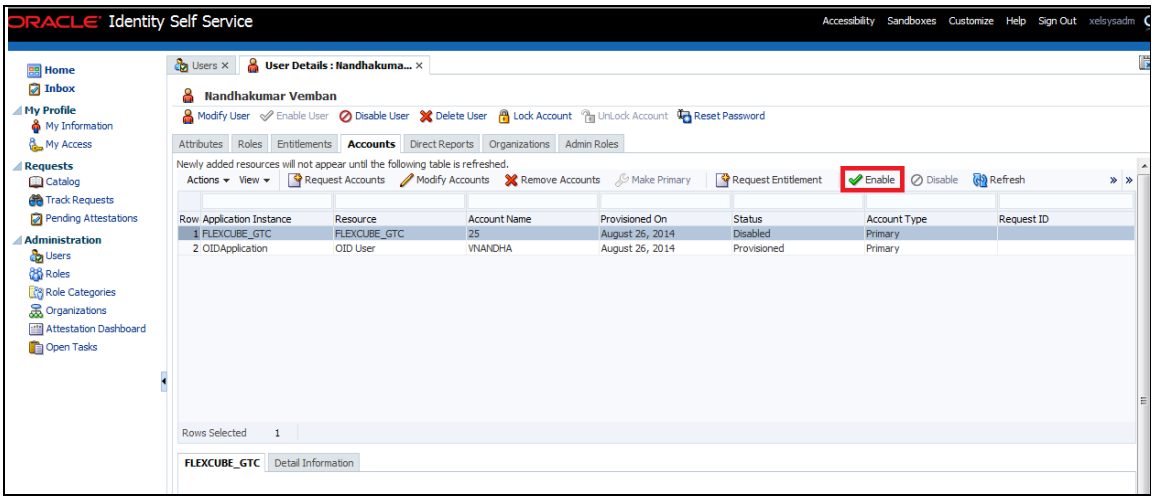

11. Go to Accounts Tab and Click on Refresh.

12. On successful processing, it will display the FLEXCUBE_GTC status as Disabled.

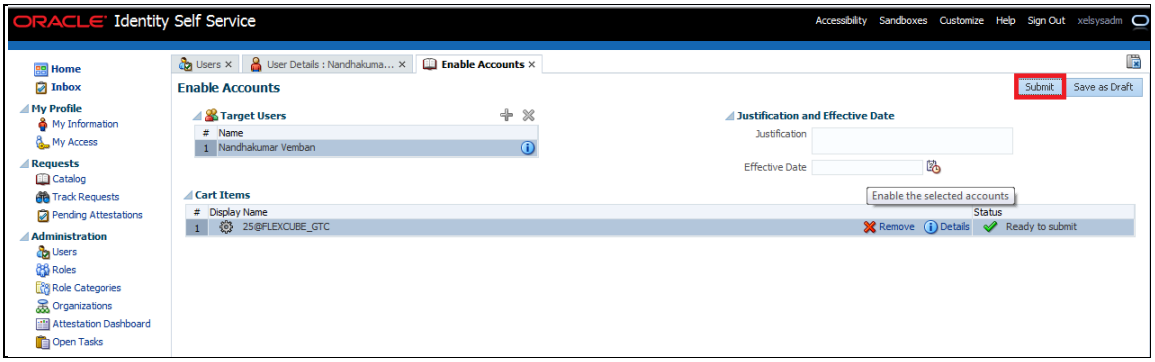


### 6.1.4 Enabling a Disabled user in FCUBS through OIM

1. Accounts>>Select FLEXCUBE_GTC >>Click on Enable

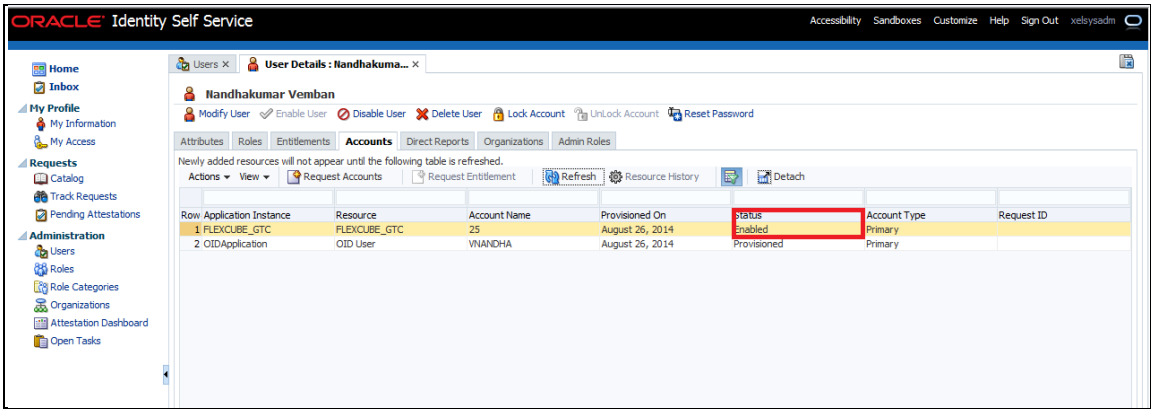



2. Enable Confirmation Screen will get displayed and Click on Submit




3. Go to Accounts TAB and Click on Refresh.

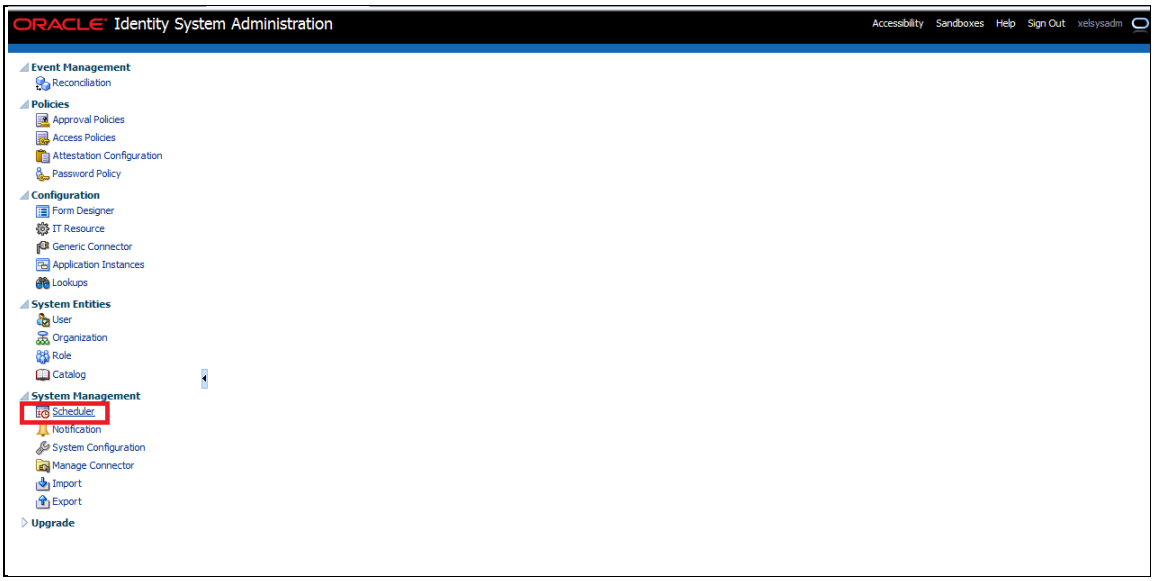
4. On successful processing, it will display the FLEXCUBE_GTC status as Enabled.



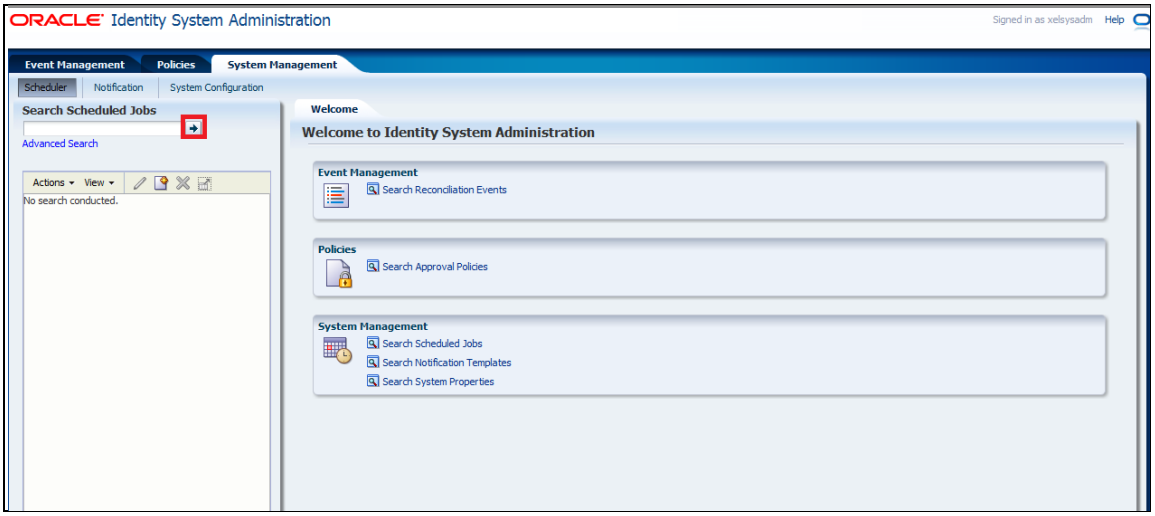
### 6.1.5 Running Reconciliation in OIM

Copy the reconciliation staging file that is created by function id SMBOIMHF as EOD day activity to the OIM server's staging directory.

1. Login to OIM Admin Console and Click on Scheduler under System Management.

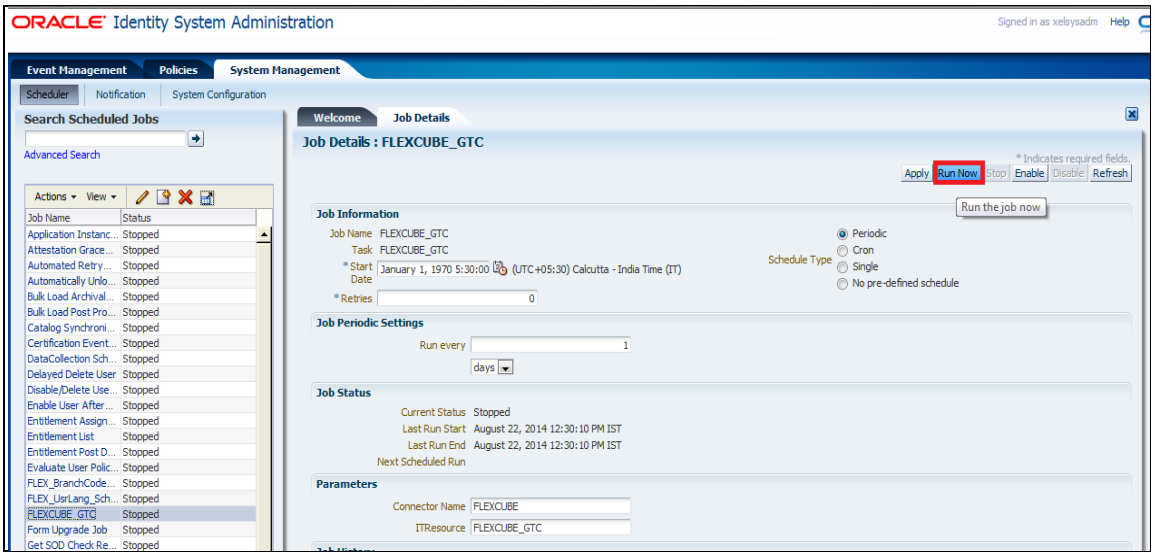


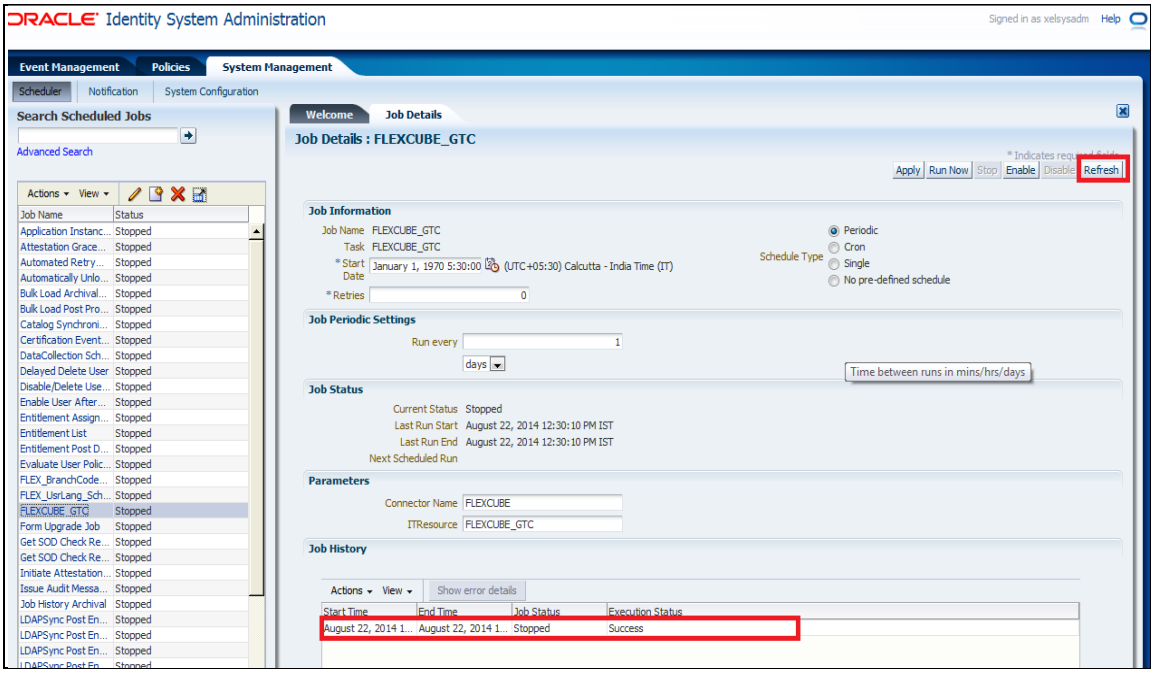

2. Under System Management tab and search for FLEXCUBE_GTC Scheduled Job by clicking Search Button.



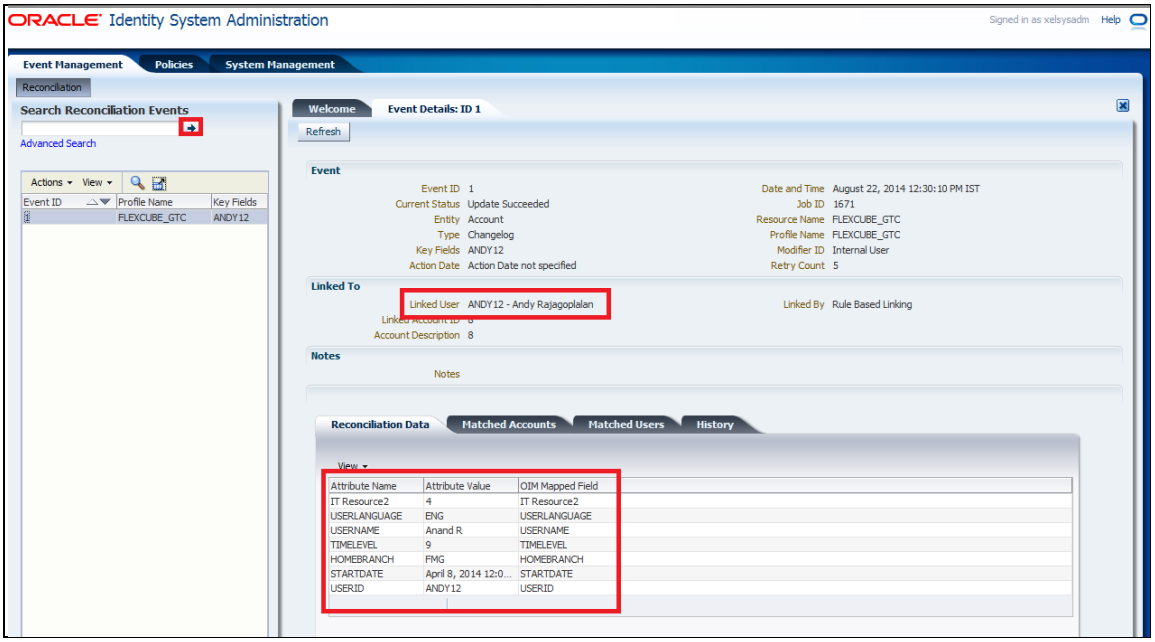

3. If the job is scheduled periodically, based on the frequency and scheduled time, system will automatically process the reconciliation. If it not scheduled, user can manually initiate the reconciliation process by clicking the Run Now button.

4. After running the process, click Refresh button to view the status of the initiated job. The job history section available in the screen will show whether the job is in progress or it is completed.


ORACLE Identity System Administration
Signed in as xelsysadm
Help
Event Management
Policies
System Management
Scheduler
Notification
System Configuration
Search Scheduled Jobs
Advanced Search
Actions
View
Job Name
Status
Application Instanc... Stopped
Attestation Grace... Stopped
Automated Retry... Stopped
Automatically Unlo... Stopped
Bulk Load Archival... Stopped
Bulk Load Post Pro... Stopped
Catalog Synchroni... Stopped
Certification Event... Stopped
DataCollection Sch... Stopped
Delayed Delete User Stopped
Disable/Delete Use... Stopped
Enable User After... Stopped
Entitlement Assign... Stopped
Entitlement List Stopped
Entitlement Post D... Stopped
Evaluate User Polic... Stopped
FLEX_BranchCode... Stopped
FLEX_UsrLang_Sch... Stopped
FLEXCUBE_GTC Stopped
Form Upgrade Job Stopped
Get SOD Check Re... Stopped
Welcome
Job Details
Job Details : FLEXCUBE_GTC
* Indicates required fields.
Apply
Run Now
Stop
Enable
Disable
Refresh
Run the job now
Job Information
Job Name FLEXCUBE_GTC
Task FLEXCUBE_GTC
* Start Date January 1, 1970 5:30:00 (UTC+05:30) Calcutta - India Time (IT)
* Retries 0
Schedule Type
Periodic
Cron
Single
No pre-defined schedule
Job Periodic Settings
Run every 1
days
Job Status
Current Status Stopped
Last Run Start August 22, 2014 12:30:10 PM IST
Last Run End August 22, 2014 12:30:10 PM IST
Next Scheduled Run
Parameters
Connector Name FLEXCUBE
ITResource FLEXCUBE_GTC


ORACLE Identity System Administration
Signed in as xelsysadm
Help
Event Management
Policies
System Management
Scheduler
Notification
System Configuration
Search Scheduled Jobs
Advanced Search
Actions
View
Job Name
Status
Application Instanc... Stopped
Attestation Grace... Stopped
Automated Retry... Stopped
Automatically Unlo... Stopped
Bulk Load Archival... Stopped
Bulk Load Post Pro... Stopped
Catalog Synchroni... Stopped
Certification Event... Stopped
DataCollection Sch... Stopped
Delayed Delete User Stopped
Disable/Delete Use... Stopped
Enable User After... Stopped
Entitlement Assign... Stopped
Entitlement List Stopped
Entitlement Post D... Stopped
Evaluate User Polic... Stopped
FLEX_BranchCode... Stopped
FLEX_UsrLang_Sch... Stopped
FLEXCUBE_GTC Stopped
Form Upgrade Job Stopped
Get SOD Check Re... Stopped
Get SOD Check Re... Stopped
Initiate Attestation... Stopped
Issue Audit Messa... Stopped
Job History Archival Stopped
LDAPSync Post En... Stopped
LDAPSync Post En... Stopped
LDAPSync Post En... Stopped
Welcome
Job Details
Job Details : FLEXCUBE_GTC
Apply
Run Now
Stop
Enable
Disable
Refresh
Job Information
Job Name FLEXCUBE_GTC
Task FLEXCUBE_GTC
* Start Date January 1, 1970 5:30:00 (UTC+05:30) Calcutta - India Time (IT)
* Retries 0
Schedule Type
Periodic
Cron
Single
No pre-defined schedule
Job Periodic Settings
Run every 1
days
Time between runs in mins/hrs/days
Job Status
Current Status Stopped
Last Run Start August 22, 2014 12:30:10 PM IST
Last Run End August 22, 2014 12:30:10 PM IST
Next Scheduled Run
Parameters
Connector Name FLEXCUBE
ITResource FLEXCUBE_GTC
Job History
Actions
View
Show error details
Start Time
End Time
Job Status
Execution Status
August 22, 2014 1...
August 22, 2014 1...
Stopped
Success

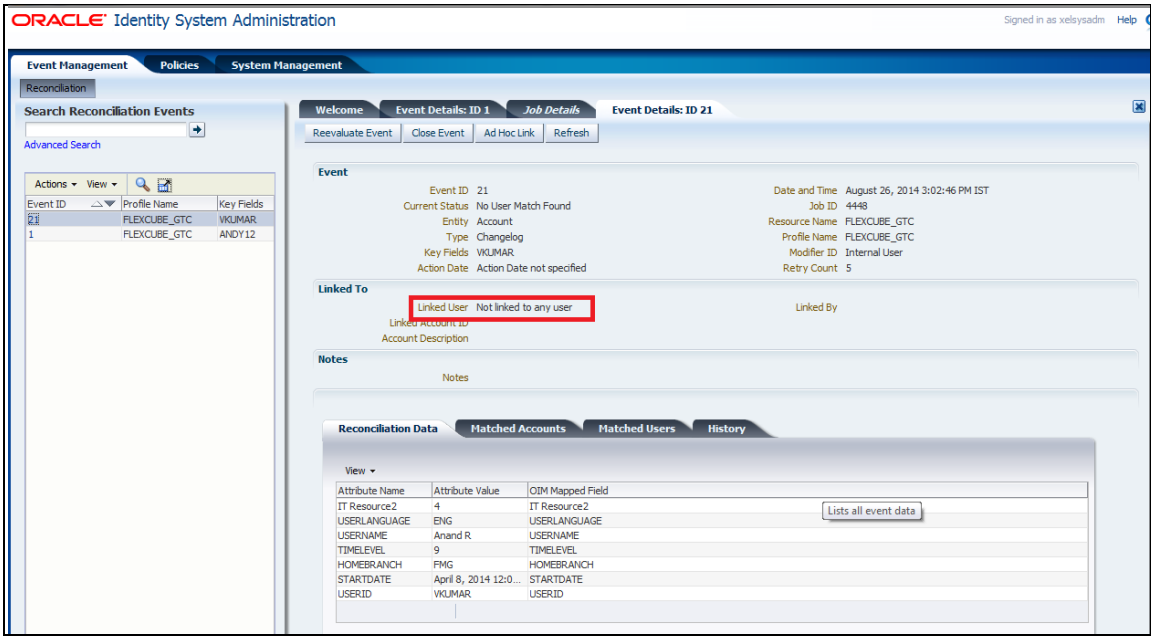
5. To Check the Status of Reconciliation Process, Click on Event Management Tab and Click the Search button and Click on the Latest Event ID. The screen will show the reconciliation data and the user ID matched for the reconciliation.




In the Event details screen

6. Check the Status: If it is “Update Succeeded” then it means the reconciliation process was able to find a matching user. It also shows the reconciliation data that has been affected.

7. If the Liked User is “Not Licked to any user” then it means the reconciliation process was not able to find a matching user.



# 7. Reference

| Document Number | Title |
|---|---|
| 1 | Oracle Identity Manager Document. |
| 2 | SPML specification Document. |

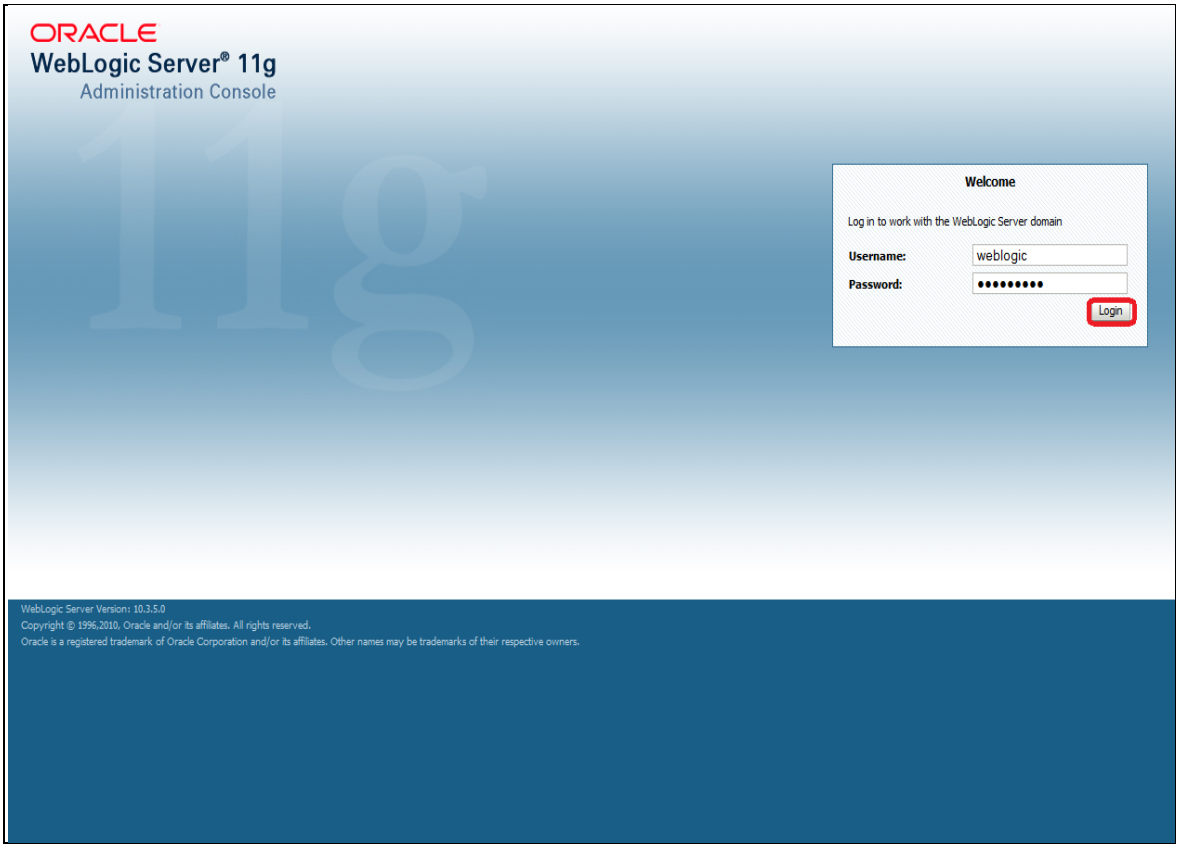
# 8. Appendix

## 8.1 Data Source Creation

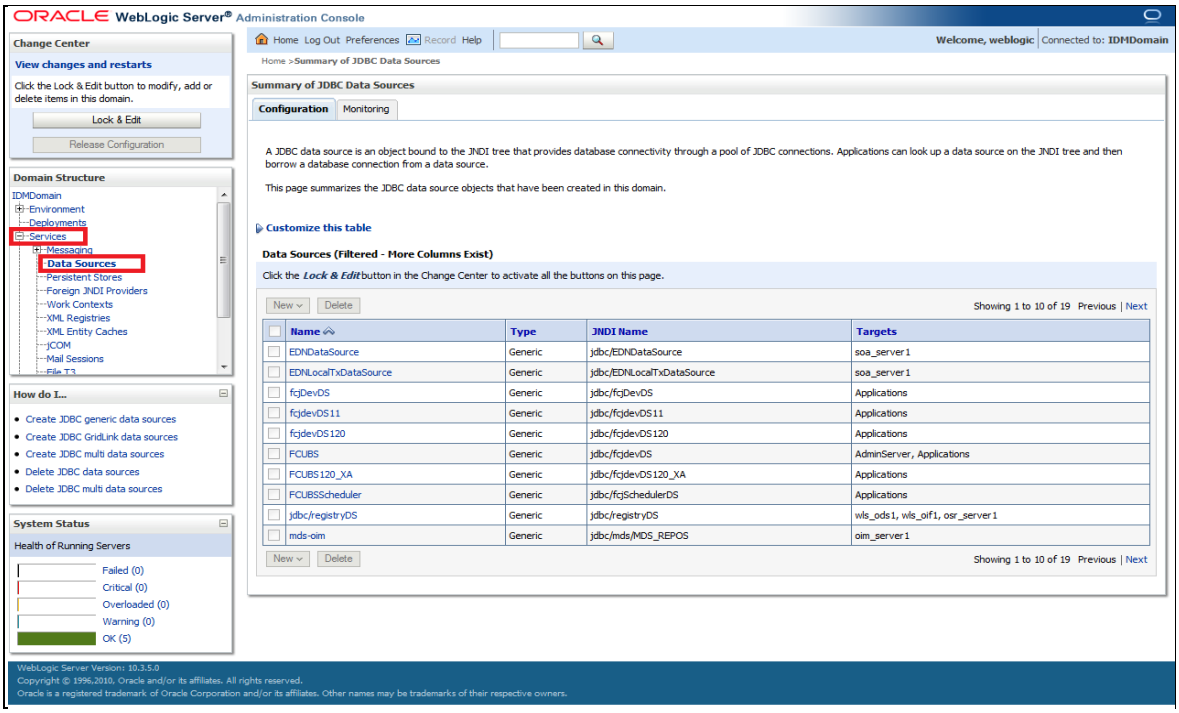
1. Open the application server console in the browser by typing Console URL of Weblogic application server

   http://<hostname>:<port>/console/

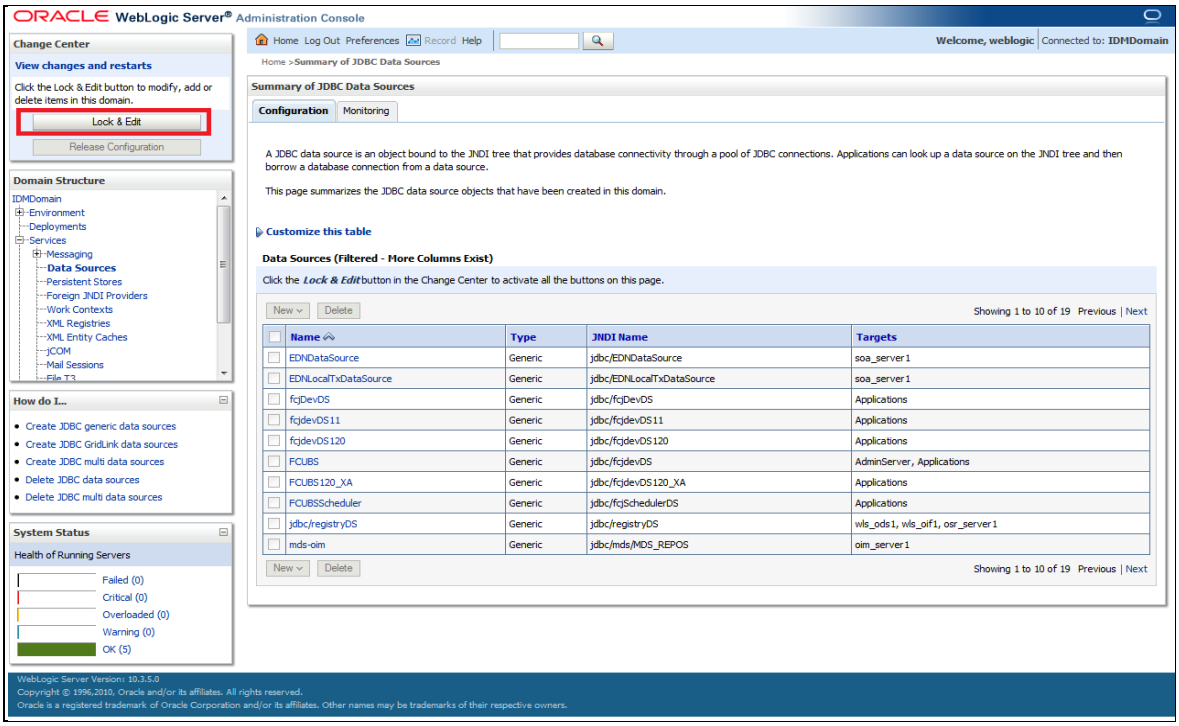
2. Login to Administrative Console
3. Enter Weblogic administrator username/password and press Login.



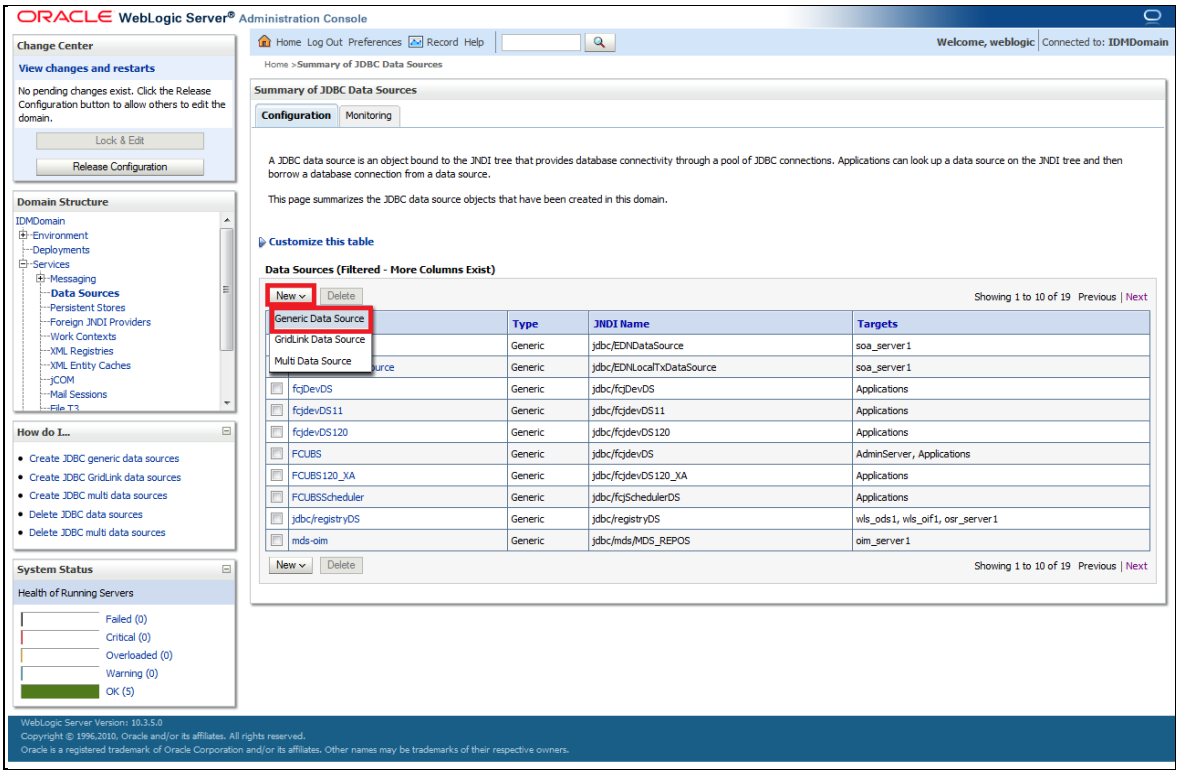
4. Expand Services and click on Data Sources as shown in below screen:




5. Click on Lock & Edit as shown below.



6. Expand New and click on Generic Data Source.

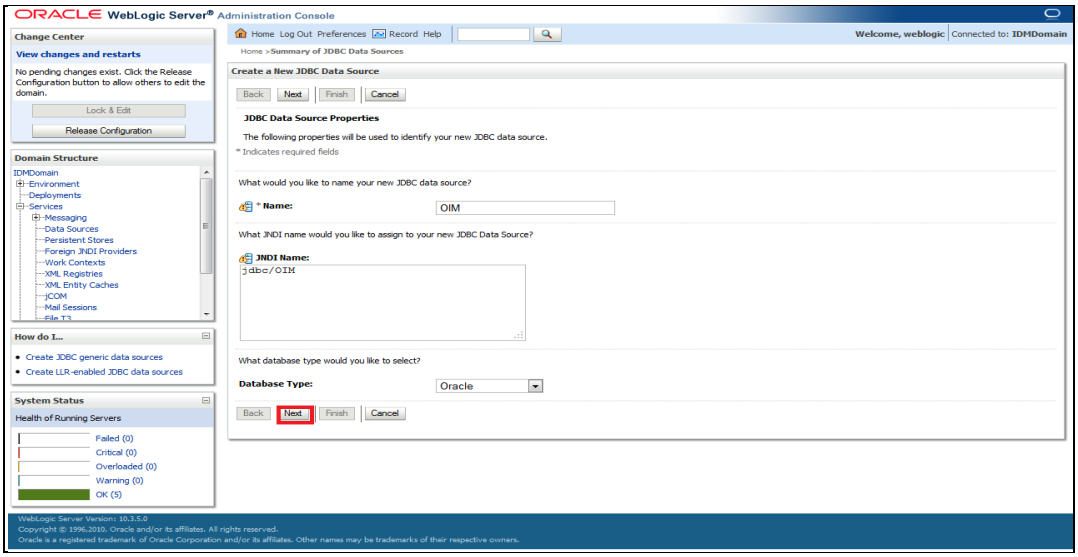



The following screen will get displayed.

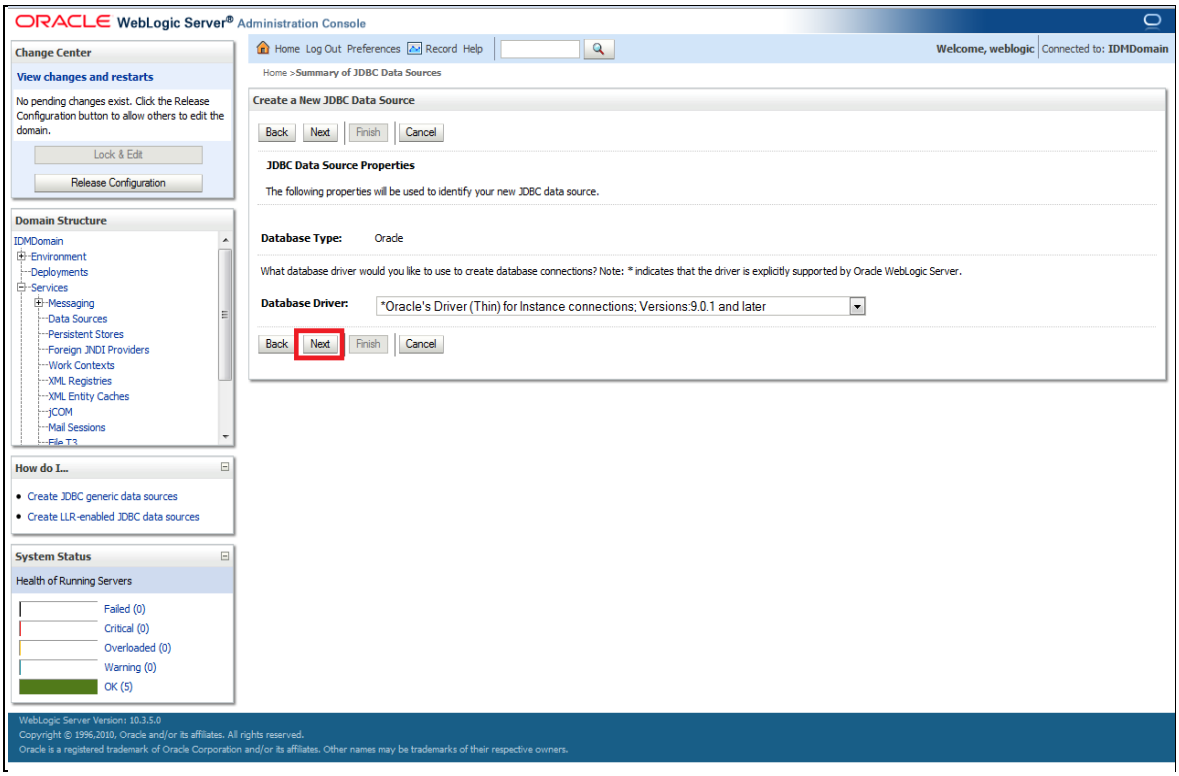
Enter the Data Source Name and JNDI Name as mentioned in the <FCUBS Release Name>\ADAPTERS\OIM\FCUBSLOVAdService\config\lookup_prop.xml → value of the key FCUBS_CON_POOLNAME.

For example value of the key FCUBS_CON_POOLNAME is OIM then:

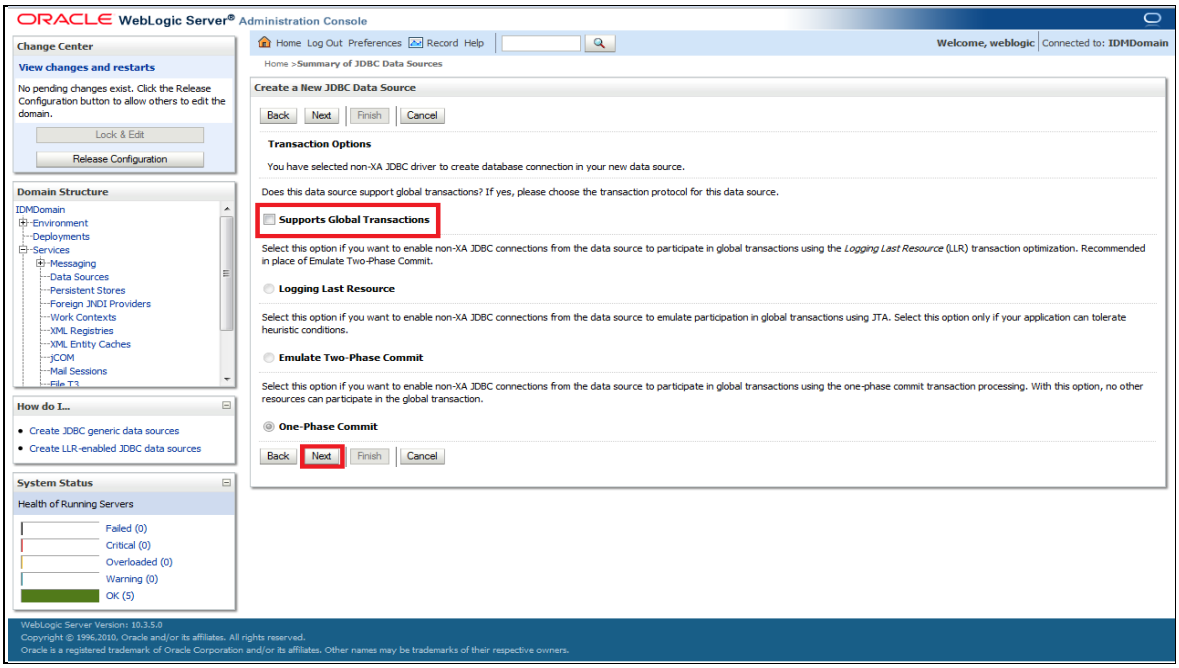
| | |
|---|---|
| Name | OIM |
| JNDI Name | jdbc/OIM |
| Database Type | Oracle |



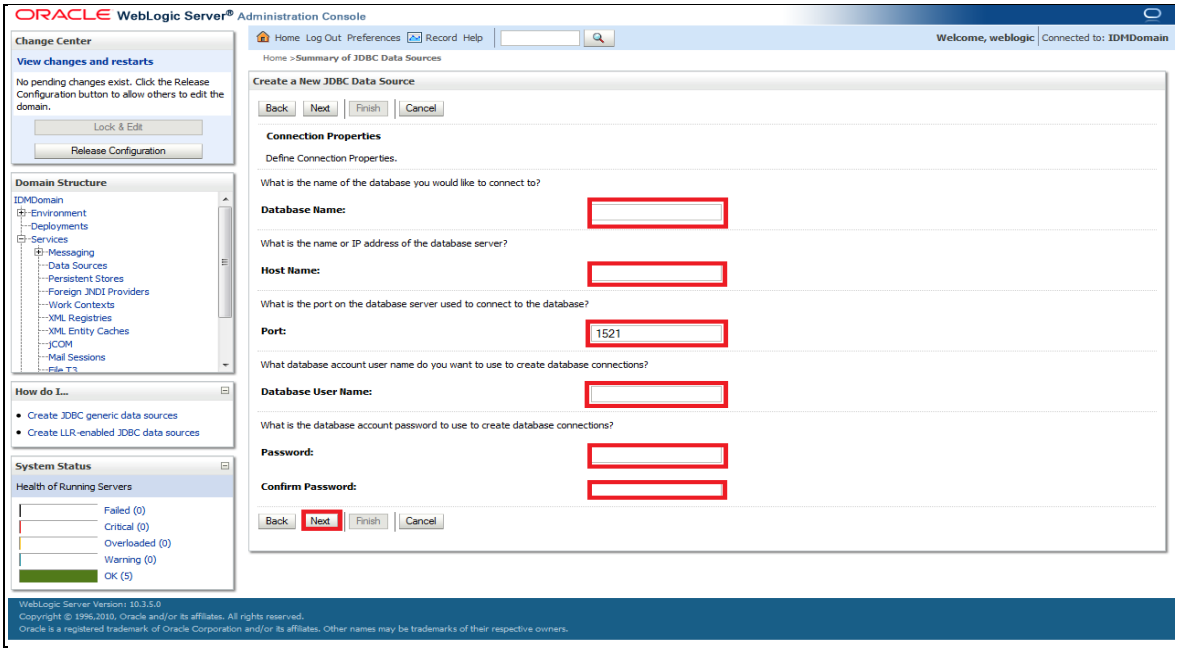

The following screen will get displayed. Select Database Driver as Oracle's Driver (Thin) for Instance connections: Versions 9.0.1 and later. Click on Next.




We get the following screen in which un-check Supports Global Transactions and click on Next.

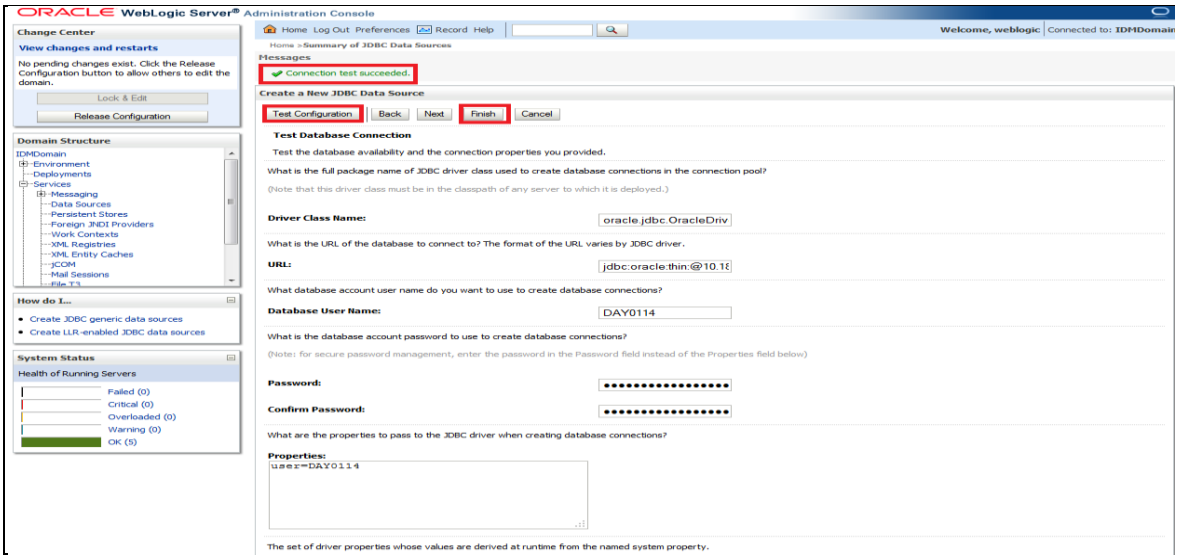



The following screen will get displayed. Enter the Database Name, Host Name, Port, Database User Name, Password and Confirm Password. Click on Next.



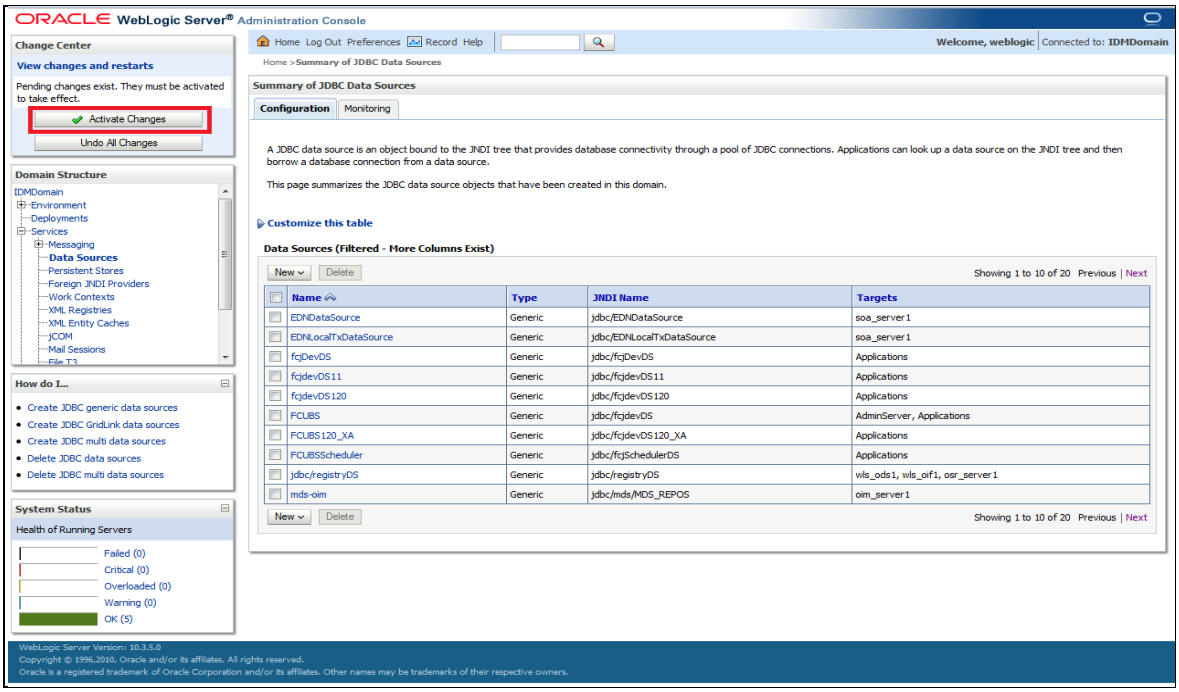

The following screen will get displayed. Click on ‘Test Configuration’.

It will display “Connection test succeeded” as shown below. If it is not getting displayed then verify the correctness of all data source properties entered. Click on Finish button.


ORACLE WebLogic Server® Administration Console
Change Center
View changes and restarts
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.
Lock & Edit
Release Configuration
Domain Structure
IDMDomain
Environment
Deployments
Services
Messaging
Data Sources
Persistent Stores
Foreign JNDI Providers
Work Contexts
XML Registries
XML Entity Caches
jCOM
Mail Sessions
How do I...
Create JDBC generic data sources
Create LLR-enabled JDBC data sources
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (5)
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: IDMDomain
Home >Summary of JDBC Data Sources
Messages
Connection test succeeded.
Create a New JDBC Data Source
Test Configuration
Back
Next
Finish
Cancel
Test Database Connection
Test the database availability and the connection properties you provided.
What is the full package name of JDBC driver class used to create database connections in the connection pool?
(Note that this driver class must be in the classpath of any server to which it is deployed.)
Driver Class Name:
oracle.jdbc.OracleDriv
What is the URL of the database to connect to? The format of the URL varies by JDBC driver.
URL:
jdbc:oracle:thin:@10.18
What database account user name do you want to use to create database connections?
Database User Name:
DAY0114
What is the database account password to use to create database connections?
(Note: for secure password management, enter the password in the Password field instead of the Properties field below)
Password:
Confirm Password:
What are the properties to pass to the JDBC driver when creating database connections?
Properties:
user=DAY0114
The set of driver properties whose values are derived at runtime from the named system property.

ORACLE

The following screen will get displayed. Click on Activate Changes.



**Oracle Identity Manager Integration Implementation Guide**
**[February] [2016]**
**Version 12.0.3.1.4**

**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**
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