

Oracle Identity Manager Integration Implementation Guide  
Oracle FLEXCUBE Enterprise Limits and Collateral Management  
Release 12.1  
[December] [2014]



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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 ELCM 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 ELCM.

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

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## 2. Requirements / Problem Statement

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

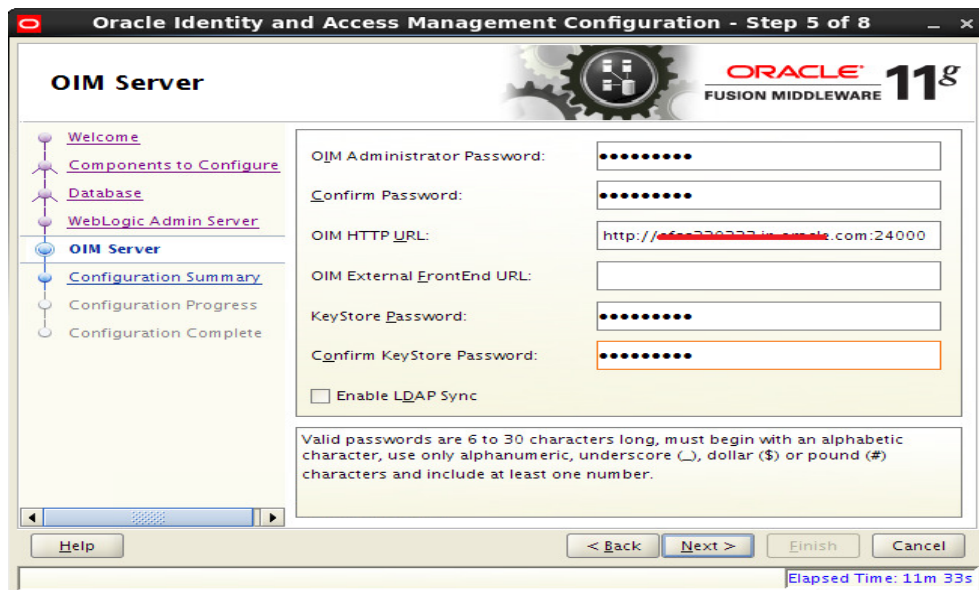
## 3. Prerequisites

### 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

## 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.

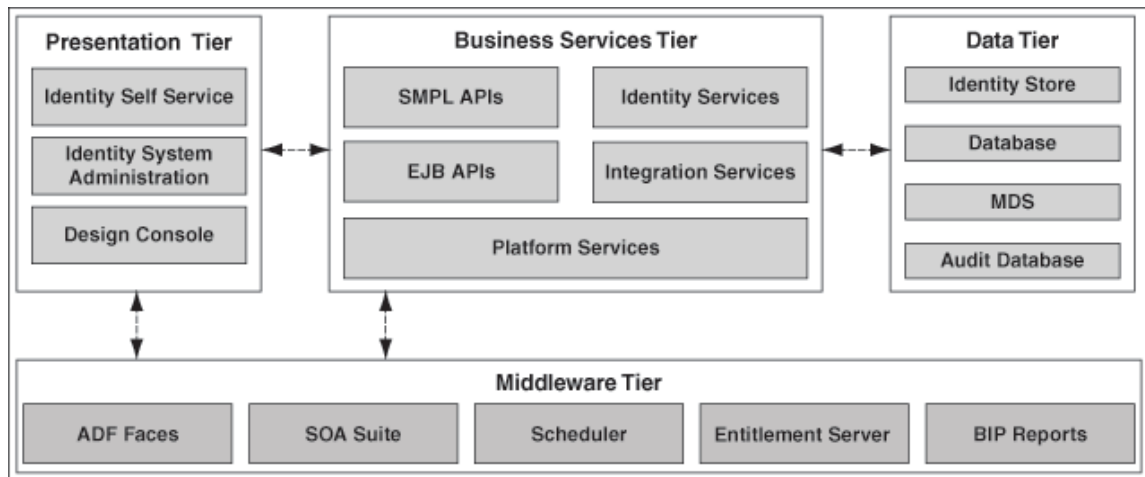
## Connector Framework

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

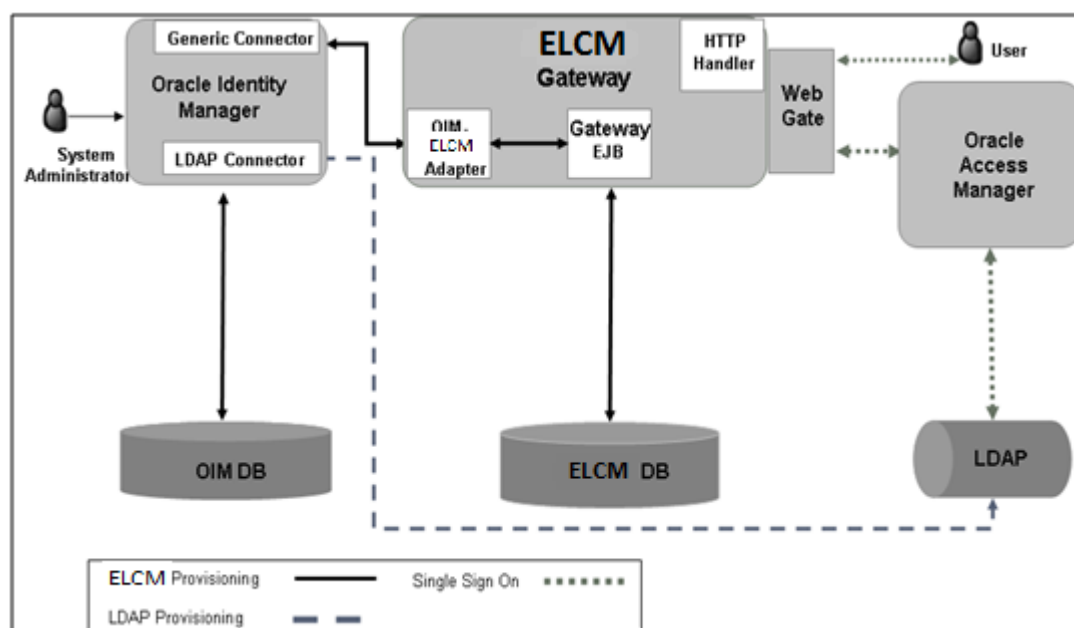
With the integration of ELCM and Oracle Identity Manager, a user can be created, modified, closed, and reopened in ELCM. Oracle Identity Manager acts as the front-end entry point for managing mandatory fields of ELCM user. After users are provisioned, the users can access the ELCM without any interaction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

### Design

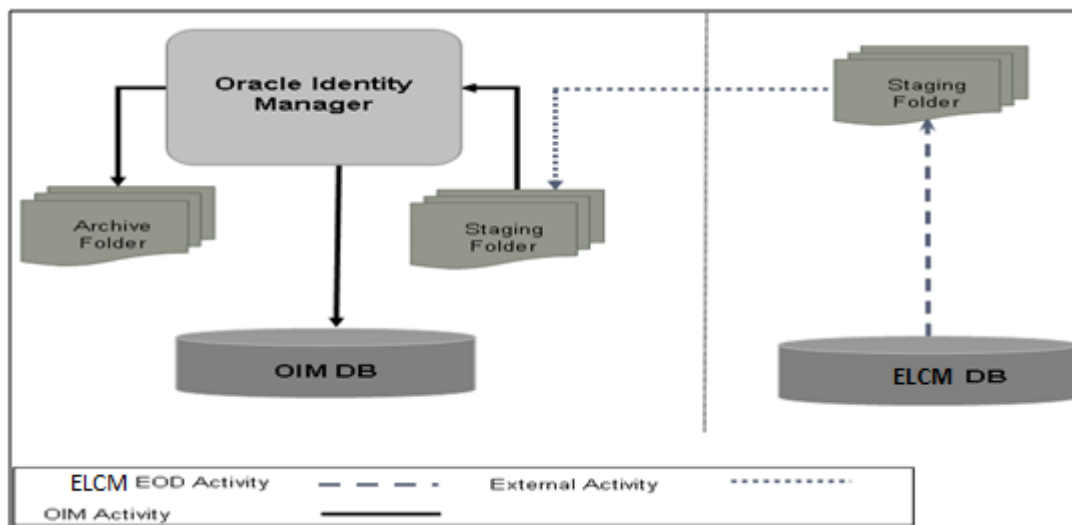
For the purpose of integration of Oracle Identity manager and ELCM “Generic technology connector” (GTC) has been used. GTC provides out of box providers for provisioning and reconciliation.

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:

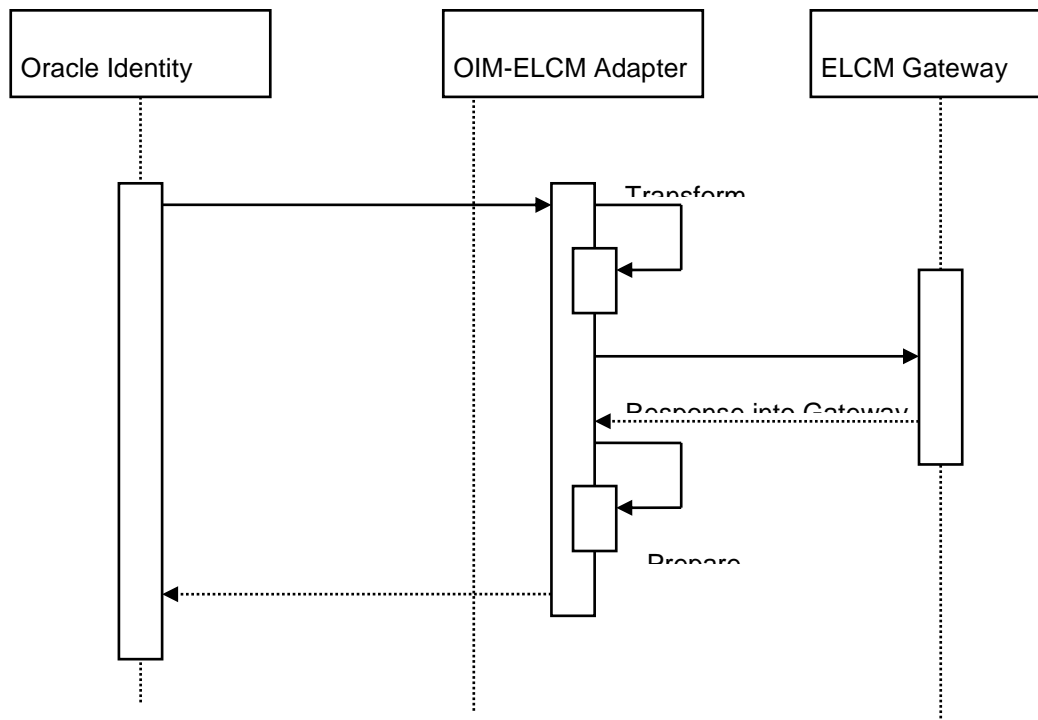
- This integration is based upon sample configuration containing only mandatory fields of ELCM user while defining the GTC. Other fields can be defined in the GTC using the same configurations.
- Due to specific data requirement for ELCM user creation, only manual provisioning method can be used for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

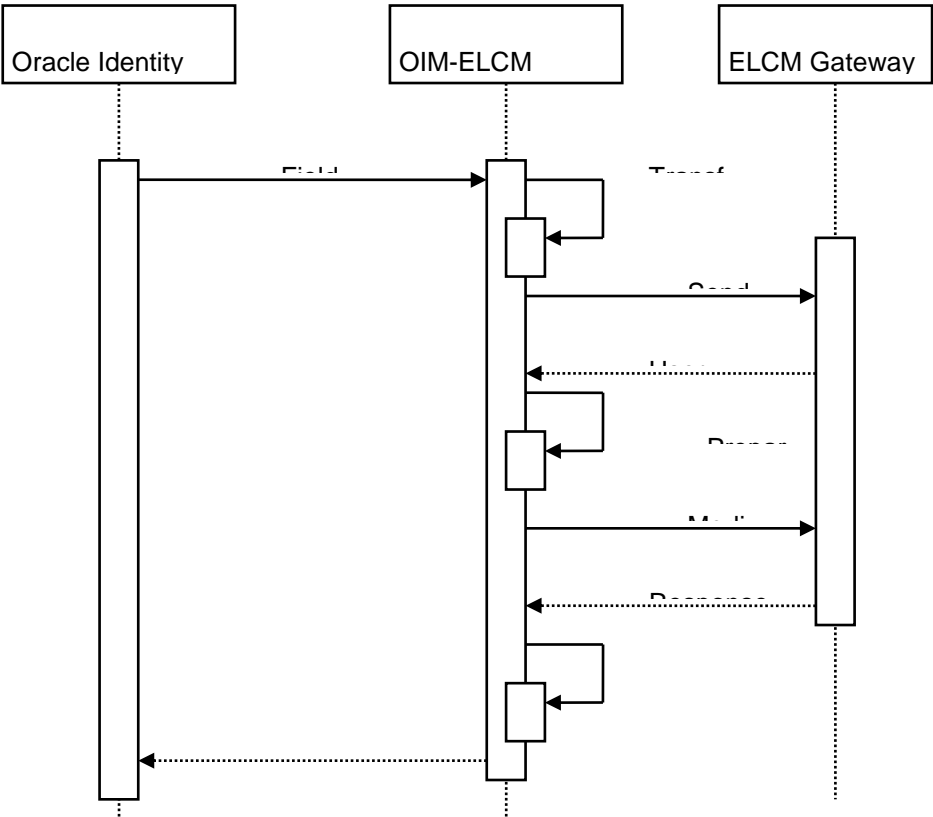
OIM-ELCM adapter would transform the request from the OIM SPML/DSML to ELCM Gateway request using Extensible Style sheet Language Transformation (XSLT). Transformed XML request will be sent to the ELCM Gateway EJB for further processing based on the type of the request. Based on the ELCM Gateway EJB response OIM-ELCM 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 ELCM Gateway EJB for user provisioning that are initiated from OIM.

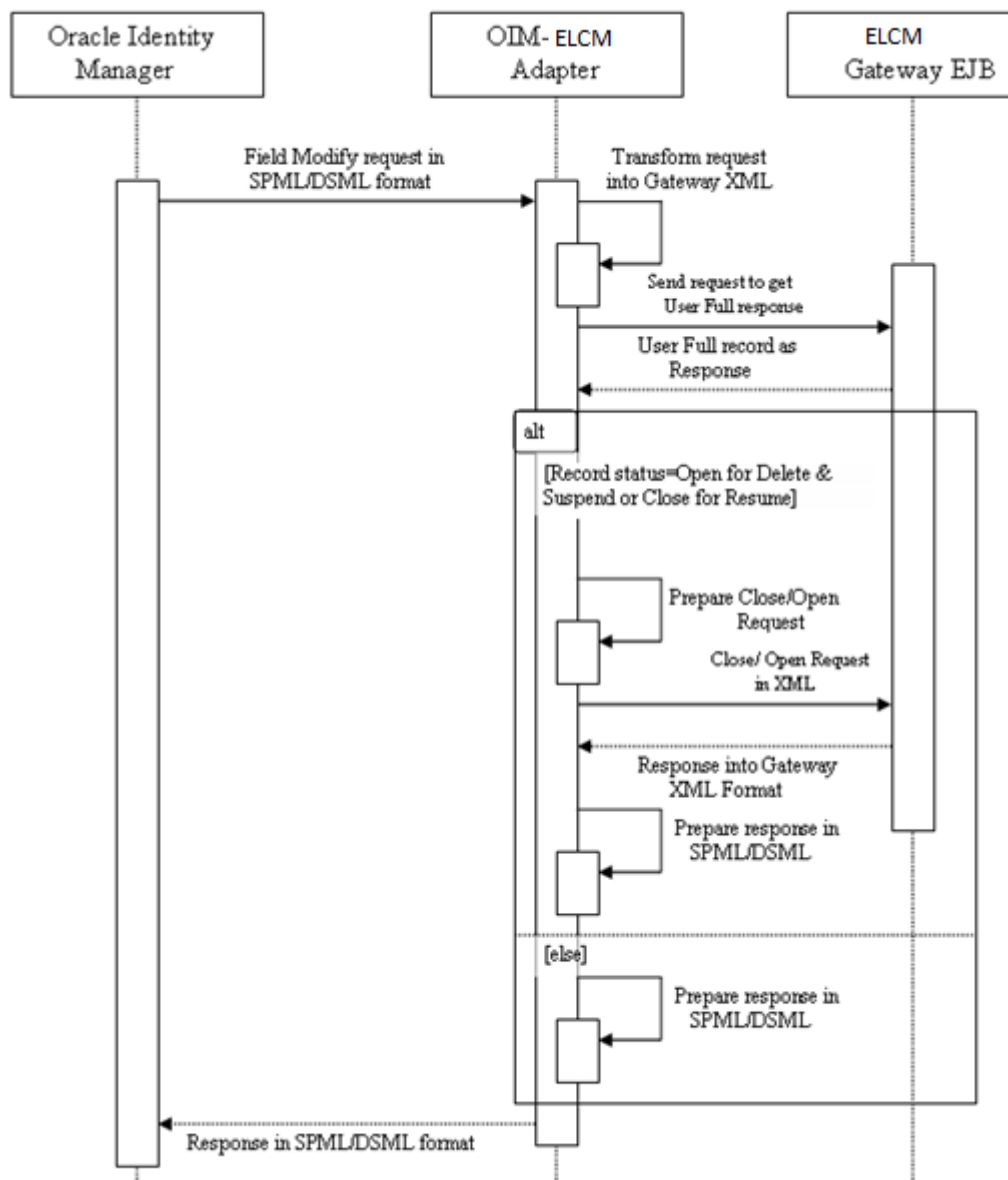
#### 4.2.4.1 Message exchange sequence for User Creation



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



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## 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:

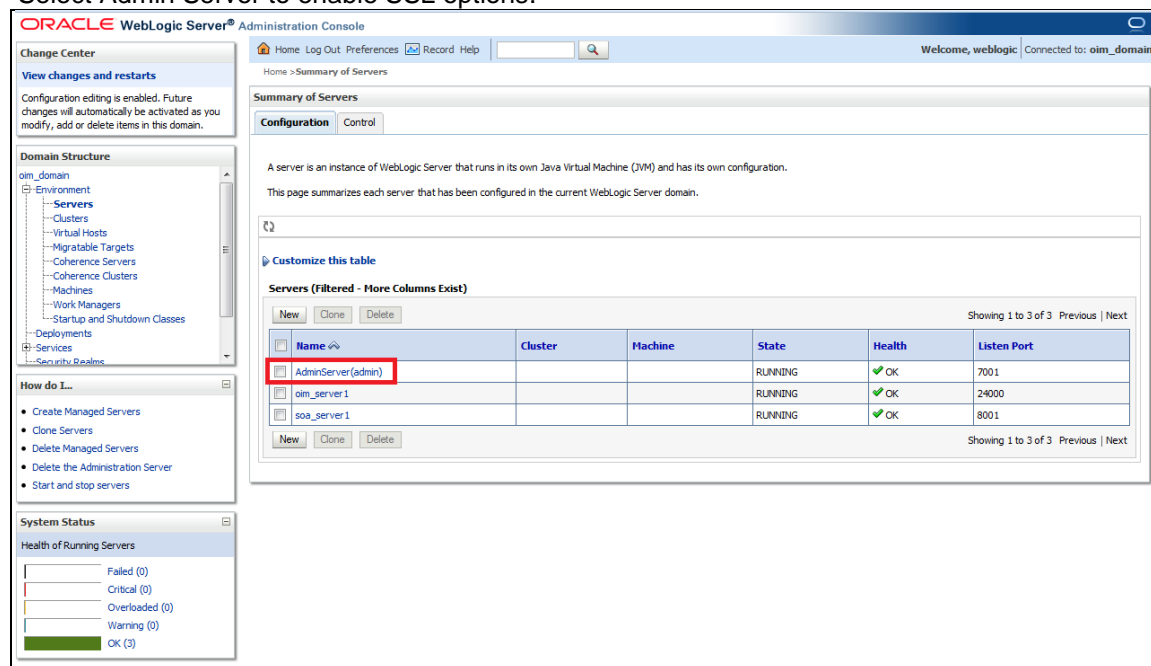
```
keytool -import -v -trustcacerts -alias rootcacert -file AdminFlexcubeCert.cer -keystore  
AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123
```

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.



The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Domain Structure' tree with 'AdminServer(admin)' selected. The main panel displays the 'Summary of Servers' page, which includes a table of servers. The table has columns for Name, Cluster, Machine, State, Health, and Listen Port. The 'AdminServer(admin)' server is highlighted in the table.

| Name               | Cluster | Machine | State   | Health | Listen Port |
|--------------------|---------|---------|---------|--------|-------------|
| AdminServer(admin) |         |         | RUNNING | OK     | 7001        |
| oim_server1        |         |         | RUNNING | OK     | 24000       |
| soa_server1        |         |         | RUNNING | OK     | 8001        |

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.



**Domain Structure**

- iam\_domain
  - Environment
    - Servers
      - Clusters
        - Virtual Hosts
          - Migratable Targets
            - Coherence Servers
              - Coherence Clusters
                - Machines
                  - Work Managers
                    - Startup and Shutdown Classes
                      - Deployments
                        - Services
                          - Security Realms

**How do I...**

- Configure default network connections
- Create and configure machines
- Configure clusters
- Start and stop servers
- Configure WLDf diagnostic volume

**System Status**

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (3)

**General** Cluster Services Keystores SSL Federation Services Deployment Migration Tuning Overload Health Monitoring Server Start Web Services

**Save**

Use this page to configure general features of this server such as default network communications.

[View JNDI Tree](#)

**Name:** AdminServer An alphanumeric name for this server instance. [More Info...](#)

**Machine:** (None) The WebLogic Server host computer (machine) on which this server is meant to run. [More Info...](#)

**Cluster:** (Standalone) The cluster, or group of WebLogic Server instances, to which this server belongs. [More Info...](#)

**Listen Address:** The IP address or DNS name this server uses to listen for incoming connections. [More Info...](#)

☒ **Listen Port Enabled** Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. [More Info...](#)

**Listen Port:** 7001 The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. [More Info...](#)

☒ **SSL Listen Port Enabled** Indicates whether the server can be reached through the default SSL listen port. [More Info...](#)

**SSL Listen Port:** 7002 The TCP/IP port at which this server listens for SSL connection requests. [More Info...](#)

☒ **Client Cert Proxy Enabled** Specifies whether the HttpClusterServlet proxies the client certificate in a special header. [More Info...](#)

**Java Compiler:** javac The Java compiler to use for all applications hosted on this server that need to compile Java code. [More Info...](#)

**Diagnostic Volume:** Low Specifies the volume of diagnostic data that is automatically produced by WebLogic Server at run time. Note that the WLDf diagnostic volume setting does not affect explicitly configured diagnostic modules. For example, this controls the volume of events generated for JRockit Flight Recorder. [More Info...](#)

**Advanced**

**Virtual Machine Name:** iam\_domain\_AdminSe When WLS is running on JRockit, this specifies the name of the virtual machine running this server. [More Info...](#)

☒ **WebLogic Plug-In Enabled** Specifies whether this server uses the proprietary WL-Proxy-Client-IP header, which is recommended if the server instance will receive requests from a proxy plug-in. [More Info...](#)

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

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: iam\_domain

Home > Summary of Servers > AdminServer

**Settings for AdminServer**

**Configuration** Protocols Logging Debug Monitoring Control Deployments Services Security Notes

**General** Cluster Services **Keystores** SSL Federation Services Deployment Migration Tuning Overload Health Monitoring Server Start Web Services

**Save** Cancel

Keystores ensure the secure storage and management of private keys and trusted certificate authorities (CAs). This page lets you view and define various keystore configurations. These settings help you to manage the security of message transmissions.

**Keystores:** Demo Identity and Demo Trust Which configuration rules should be used for finding the server's identity and trust keystores? [More Info...](#)

**Save** Cancel

**Domain Structure**

- iam\_domain
  - Environment
    - Servers
      - Clusters
        - Virtual Hosts
          - Migratable Targets
            - Coherence Servers
              - Coherence Clusters
                - Machines
                  - Work Managers
                    - Startup and Shutdown Classes
                      - Deployments
                        - Services
                          - Security Realms

**How do I...**

  - Configure identity and trust
  - Configure keystores
  - Set up SSL

**System Status**

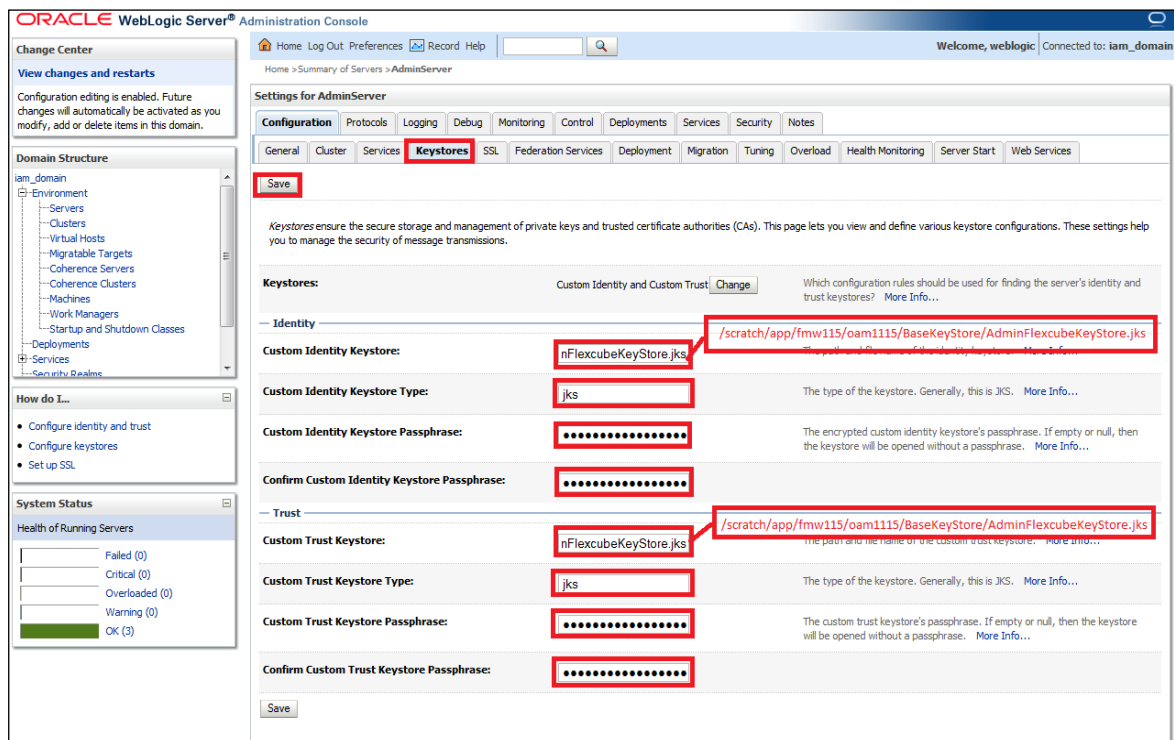
Health of Running Servers

  - Failed (0)
  - Critical (0)
  - Overloaded (0)
  - Warning (0)
  - OK (3)

WebLogic Server Version: 10.3.5.0  
Copyright © 1996-2010, Oracle and/or its affiliates. All rights reserved.  
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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.

**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**  
iam\_domain  
- Environment  
- Servers  
- Clusters  
- Virtual Hosts  
- Migratable Targets  
- Coherence Servers  
- Coherence Clusters  
- Machines  
- Work Managers  
- Startup and Shutdown Classes  
- Deployments  
- Services  
- Security Realms

**How do I...**  
• Configure identity and trust  
• Set up SSL  
• Verify host name verification is enabled  
• Configure a custom host name verifier  
• Configure two-way SSL

**System Status**  
Health of Running Servers  
Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (2)

**Settings for AdminServer**  
Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes  
General Cluster Services Keystores **SSL** Federation Services Deployment Migration Tuning Overload Health Monitoring Server Start Web Services  
Save

This page lets you view and define various Secure Sockets Layer (SSL) settings for this server instance. These settings help you to manage the security of message transmissions.

**Identity and Trust Locations:** Keystores: [Change](#)  
Indicates where SSL should find the server's identity (certificate and private key) as well as the server's trust (trusted CAs). [More Info...](#)

**Identity**

**Private Key Location:** from Custom Identity Keystore  
The keystore attribute that defines the location of the private key file. [More Info...](#)

**Private Key Alias:** FlexcubeCert  
The keystore attribute that defines the string alias used to store and retrieve the server's private key. [More Info...](#)

**Private Key Passphrase:** \*\*\*\*\*  
The keystore attribute that defines the passphrase used to retrieve the server's private key. [More Info...](#)

**Confirm Private Key Passphrase:** \*\*\*\*\*

**Certificate Location:** from Custom Identity Keystore  
The keystore attribute that defines the location of the trusted certificate. [More Info...](#)

**Trust**

**Trusted Certificate Authorities:** from Custom Trust Keystore  
The keystore attribute that defines the location of the certificate authorities. [More Info...](#)

**Advanced**

**Hostname Verification:** None  
Specifies whether to ignore the installed implementation of the weblogic.security.SSL.HostnameVerifier interface (when this server is acting as a client to another application server). [More Info...](#)

**Custom Hostname Verifier:** BFA Hostname Verifier  
The name of the class that implements the weblogic.security.SSL.HostnameVerifier interface. [More Info...](#)

**Export Key Lifespan:** 500  
Indicates the number of times WebLogic Server can use an exportable key between a domestic server and an exportable client before generating a new key. The more secure you want WebLogic Server to be, the fewer times the key should be used before generating a new key. [More Info...](#)

☐ Use Server Certs  
Sets whether the client should use the server certificates/key as the client.

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.

**ORACLE WebLogic Server® Administration Console**  
Home Log Out Preferences Record Help Welcome, weblogic Connected to: oim\_domain

**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  
- Servers  
- Clusters  
- Virtual Hosts  
- Migratable Targets  
- Coherence Servers  
- Coherence Clusters  
- Machines  
- Work Managers  
- Startup and Shutdown Classes  
- Deployments  
- Services  
- Security Realms

**How do I...**  
• Create Managed Servers  
• Clone Servers  
• Delete Managed Servers  
• Delete the Administration Server  
• Start and stop servers

**System Status**  
Health of Running Servers  
Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (3)

**Summary of Servers**  
Configuration Control  
A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.  
This page summarizes each server that has been configured in the current WebLogic Server domain.

[Customize this table](#)

**Servers (Filtered - More Columns Exist)**

| Name               | Cluster | Machine | State   | Health | Listen Port |
|--------------------|---------|---------|---------|--------|-------------|
| AdminServer(admin) |         |         | RUNNING | OK     | 7001        |
| <b>oim_server1</b> |         |         | RUNNING | OK     | 24000       |
| soa_server1        |         |         | RUNNING | OK     | 8001        |

Showing 1 to 3 of 3 Previous | Next

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
```

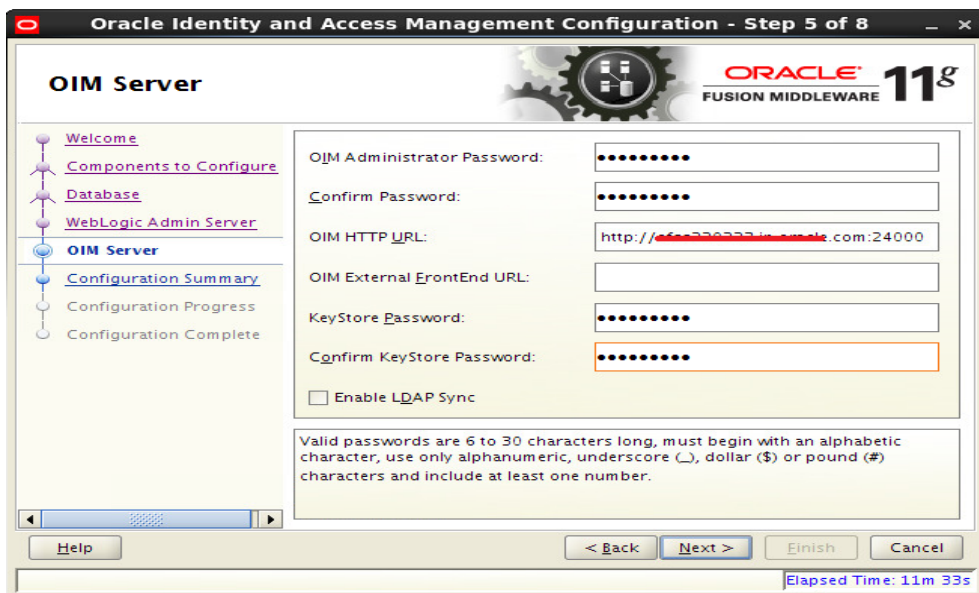
### 5.1.2.2 Import the Certificate to Xellarate Key Store

```
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
```

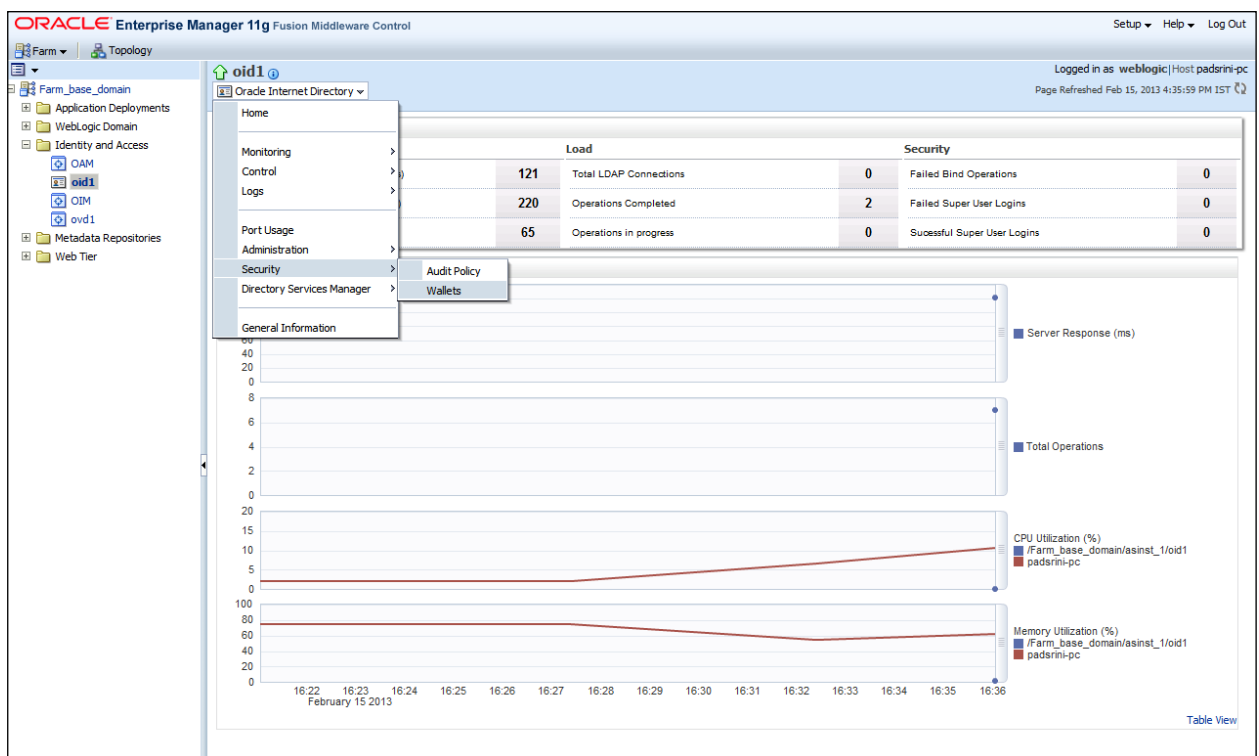
For Example:

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

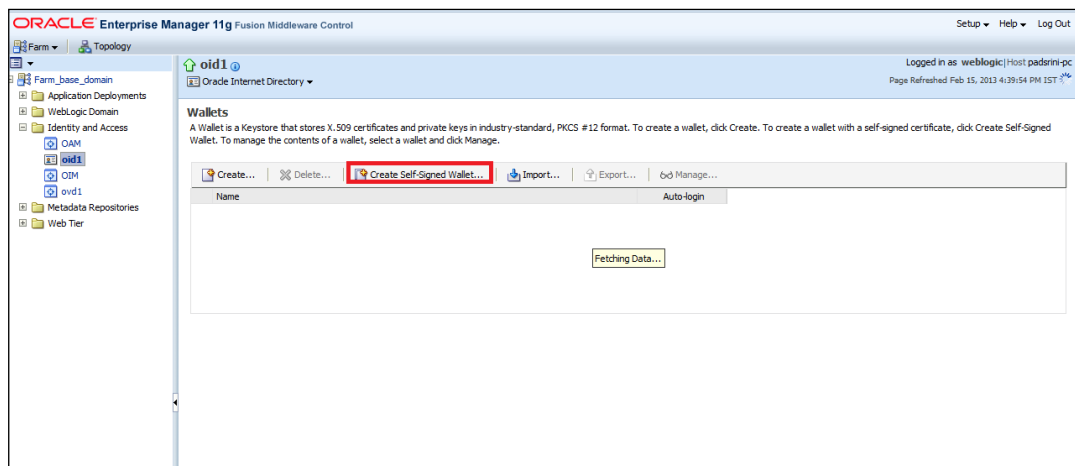
#### 5.1.3 Configuring SSL Mode in Oracle Internet Directory

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.



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

**ORACLE Enterprise Manager 11g Fusion Middleware Control**

Setup Help Log Out

Logged in as weblogic@Host padsrini-pc  
Page Refreshed Feb 15, 2013 4:40:45 PM IST

**Walleys > Create Self-Signed Wallet**

**Create Self-Signed Wallet**

A self signed wallet is not signed by a well known CA. A self-signed wallet is not recommended in a production environment. The wallet name should be unique for a given component. The wallet type can be auto-login or password-protected. Passwords, if specified, have a minimum length of eight characters, and contain alphabetic characters combined with numeric or special characters. Auto-login wallet is an obfuscated form of PKCS #12 wallet that provides PKI-based access to services and applications without requiring a password at runtime. Auto-login wallet don't need a password to modify, or delete the wallet. File system permissions provide the necessary security for Auto-login wallets.

**Self-Signed Wallet Details**

\* Wallet Name:

☒ Auto-login

Wallet Password:

Confirm Password:

**Add Self-Signed Certificate**

Add a self-signed certificate that becomes part of the wallet.

\* Common Name:

Organizational Unit:

Organization:

City:

State:

Country:

Key Size:

### 4. Click on Manage...

**ORACLE Enterprise Manager 11g Fusion Middleware Control**

Setup Help Log Out

Logged in as weblogic@Host padsrini-pc  
Page Refreshed Feb 15, 2013 4:44:27 PM IST

**Walleys**

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                          |
|---------------|-------------------------------------|
| oidselfsigned | <input checked="" type="checkbox"/> |

### 5. Select the Trusted Certificate & Click on Export.

**ORACLE Enterprise Manager 11g Fusion Middleware Control**

Setup Help Log Out

Logged in as weblogic@Host padsrini-pc  
Page Refreshed Feb 15, 2013 4:45:58 PM IST

**Walleys > Manage Certificates**

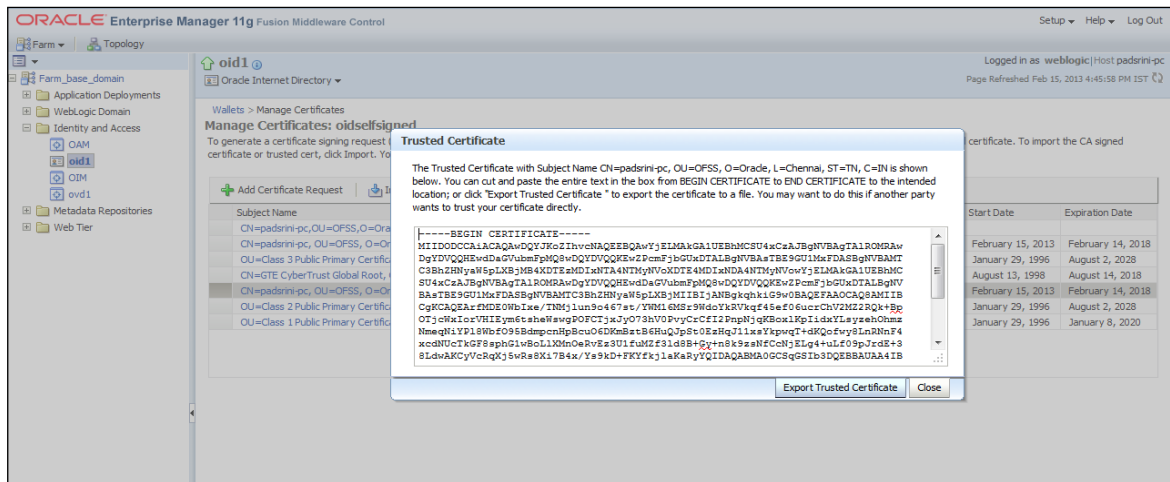
**Manage Certificates: oidselfsigned**

To generate a certificate signing request (CSR), click "Add Certificate Request". After you create a CSR, send it to your CA who will verify your identity and return the signed certificate. To import the CA signed certificate or trusted cert, click Import. You can only import the CA-signed certificate into the same wallet from which the CSR was generated.

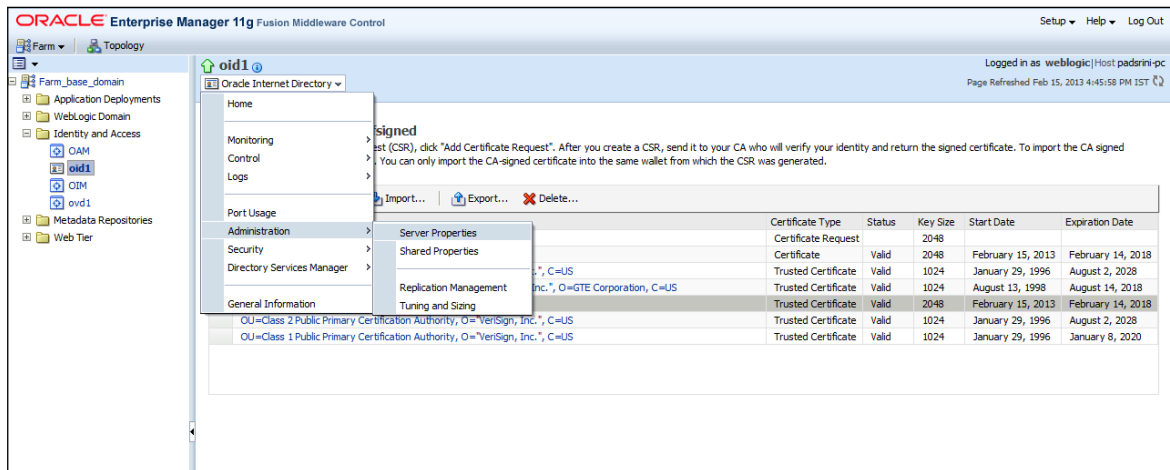
Add Certificate Request Import... **Export...** Delete...

| Subject Name  | Certificate Type    | Status | Key Size | Start Date        | Expiration Date   |
|---|---------------------|--------|----------|-------------------|-------------------|
| CH=padrini-pc, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN                                    | Certificate Request |        | 2048     |                   |                   |
| CH=padrini-pc, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN                                    | Certificate         | Valid  | 2048     | February 15, 2013 | February 14, 2018 |
| OU=Class 3 Public Primary Certification Authority, O="VeriSign, Inc.", C=US                 | Trusted Certificate | Valid  | 1024     | January 29, 1996  | August 2, 2028    |
| CH=GTE CyberTrust Global Root, OU="GTE CyberTrust Solutions, Inc.", O=GTE Corporation, C=US | Trusted Certificate | Valid  | 1024     | August 13, 1998   | August 14, 2018   |
| CH=padrini-pc, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN                                    | Trusted Certificate | Valid  | 2048     | February 15, 2013 | February 14, 2018 |
| OU=Class 2 Public Primary Certification Authority, O="VeriSign, Inc.", C=US                 | Trusted Certificate | Valid  | 1024     | January 29, 1996  | August 2, 2028    |
| OU=Class 1 Public Primary Certification Authority, O="VeriSign, Inc.", C=US                 | Trusted Certificate | Valid  | 1024     | January 29, 1996  | January 8, 2020   |

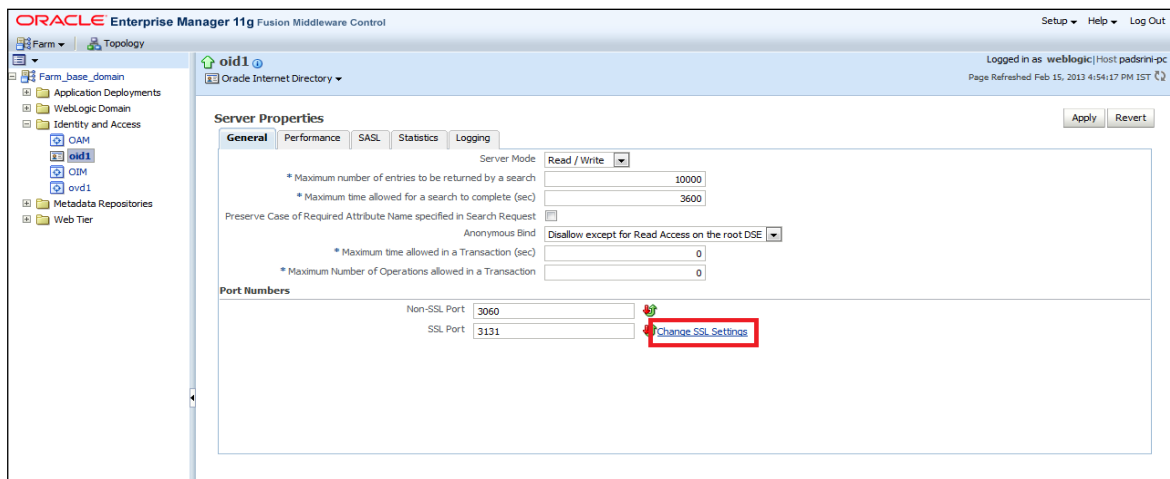
### 6. Click Export Trusted Certificate and save the certificate file.



7. Click on Server Properties.

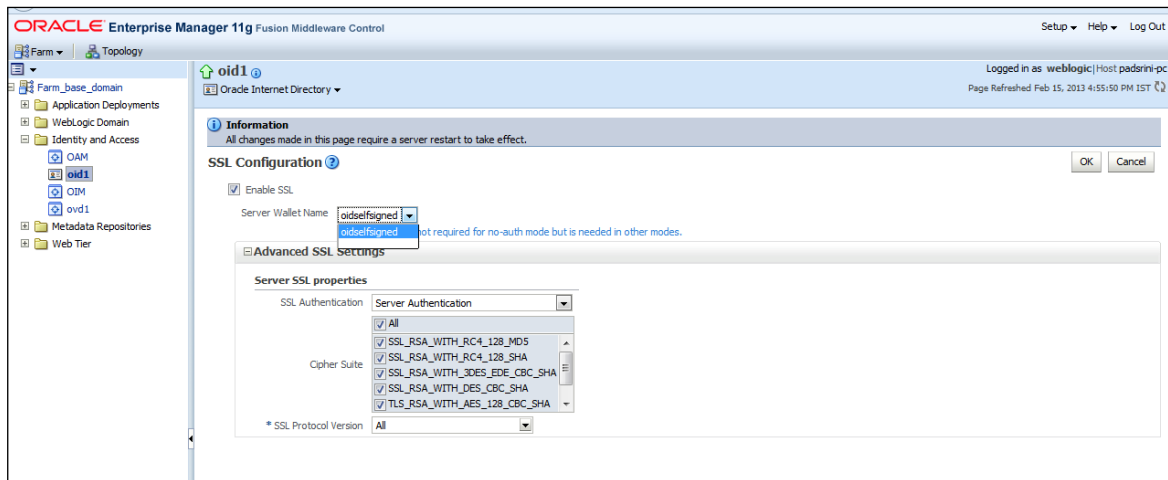


8. Click on Change SSL Settings.

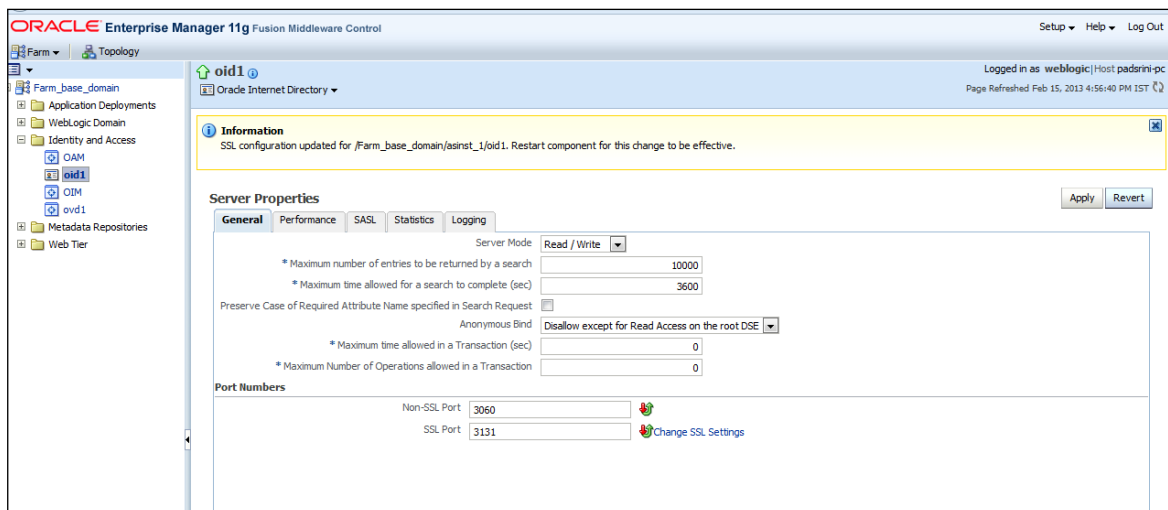


9. Select the Wallet, SSL Authentication as Server Authentication, Cipher Suite, SSL Protocol Version as below & Click on OK.





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 ELCM adapter consists of two web services:

- FCUBSLOVAdService : To fetch list of values from ELCM Database
- FCUBSProvisioningAdService: To handle OIM's request and response for user provisioning and de-provisioning services. This web service requires ELCM 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 ELCM 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 ELCM adapter deployment:

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

- <ELCM Release Name>\ADAPTERS\OIM\FCUBSLOVAdService
- <ELCM Release Name>\ADAPTERS\OIM\FCUBSProvisioningAdService
- <ELCM 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)

```

<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 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="ejb/APPNAME/ELCMGateway.jar/ELGWEJBBean#com.ofss.elcm.ejb.IELGWEJBRemote"/>

        <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 ELCM 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\FCUBSProvisioningAdService\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="ELCM"/>


<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 ELCM user id that can serve as maker id for all OIM requests. Please ensure that this id should be a valid user in ELCM 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 ELCM.

**Edit UBS\_OR\_IS:** Give the application name to which the user need to be provisioned. The value should be **ELCM**.

**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

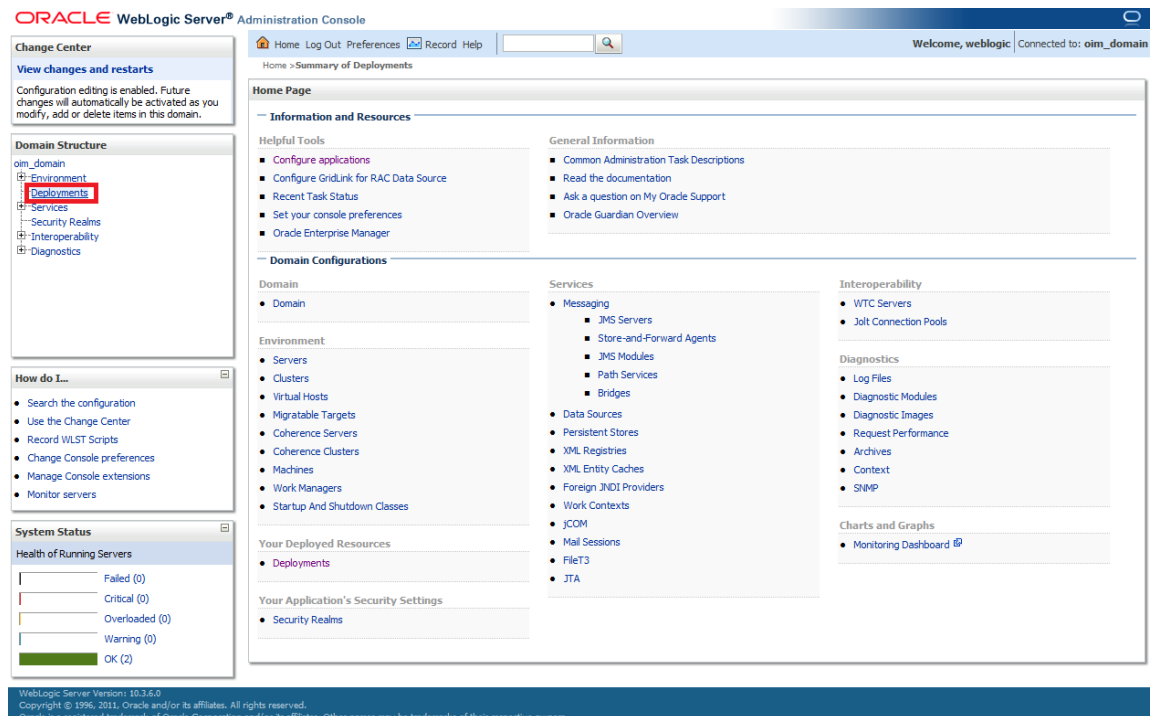
### 5.1.4.2 Deployment

#### 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.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there's a 'Change Center' sidebar with 'View changes and restarts' and 'Domain Structure' (oim\_domain, Environment, Deployments, Services, Security Realms, Interoperability, Diagnostics). Below that is 'How do I...?' with links like 'Install an Enterprise application'. At the bottom left is 'System Status' showing 'Health of Running Servers' with 2 OK, 0 Failed, 0 Critical, 0 Overloaded, and 0 Warning.

The main area is 'Summary of Deployments' with 'Control' and 'Monitoring' tabs. It contains a table of deployments:

| Name                                      | State  | Health | Type                   | Deployment Order |
|---|--------|--------|------------------------|------------------|
| adf.oracle.businesseditor(1.0,11.1.1.2.0) | Active |        | Library                | 100              |
| adf.oracle.domain(1.0,11.1.1.2.0)         | Active |        | Library                | 100              |
| adf.oracle.domain.webapp(1.0,11.1.1.2.0)  | Active |        | Library                | 100              |
| AqAdapter                                 | Active | OK     | Resource Adapter       | 324              |
| bpzui                                     | Active | OK     | Enterprise Application | 313              |
| composer                                  | Active | OK     | Enterprise Application | 315              |
| DbAdapter                                 | Active | OK     | Resource Adapter       | 322              |
| DefaultToDoTaskFlow                       | Active | OK     | Enterprise Application | 314              |
| DMS Application (11.1.1.1.0)              | Active | OK     | Web Application        | 5                |
| em  | Active | OK     | Enterprise Application | 400              |

The 'Install' button is highlighted in the top left of the table. The table also has 'Update', 'Delete', 'Start', and 'Stop' buttons for each row.

5. The following screen is displayed.

6. Click on upload your file(s)

The screenshot shows the 'Install Application Assistant' dialog box. It has 'Back', 'Next', 'Finish', and 'Cancel' buttons. The 'Locate deployment to install and prepare for deployment' section asks to select a file path. A note says: 'Note: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains the required deployment descriptors.' The 'upload your file(s)' text is highlighted in a red box.

The 'Path:' field contains: /scratch/app/sso1123/wl1036/NMiddleware/user\_projects/domains/oim\_domain

The 'Recently Used Paths:' field contains: (none)

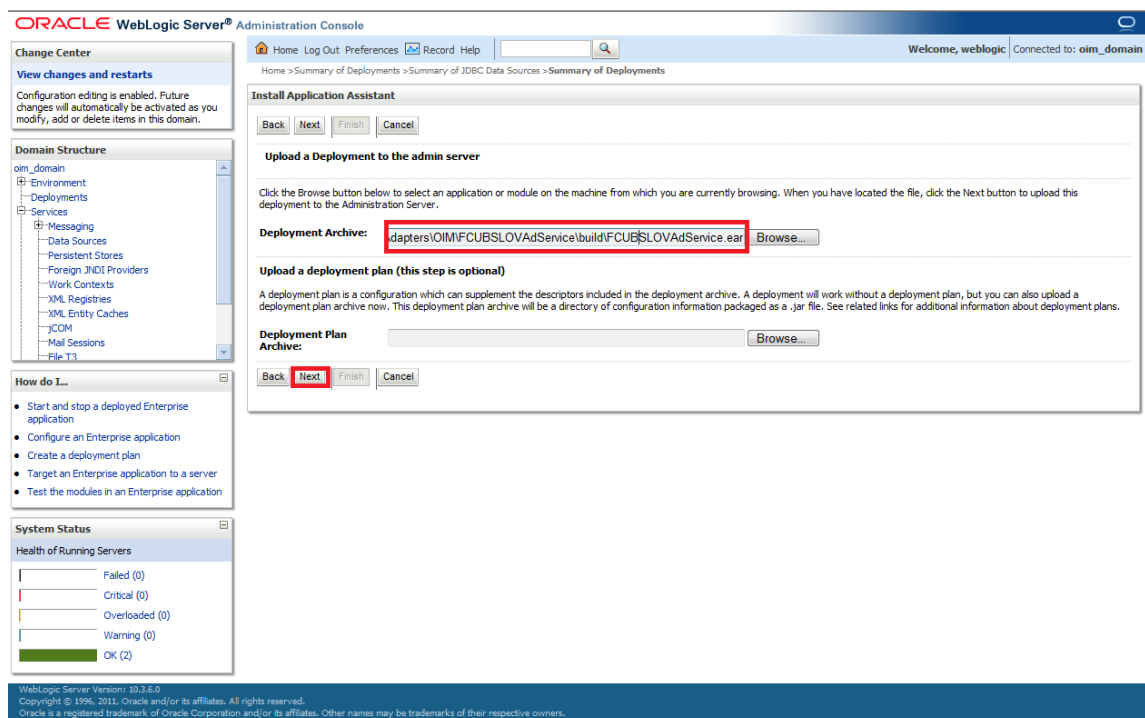
The 'Current Location:' field contains: ofss220223.in.oracle.com / scratch / app / sso1123 / wl1036 / NMiddleware / user\_projects / domains / oim\_domain

Below the fields is a tree view showing the directory structure: bin, config, servers, soa, sysman.

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

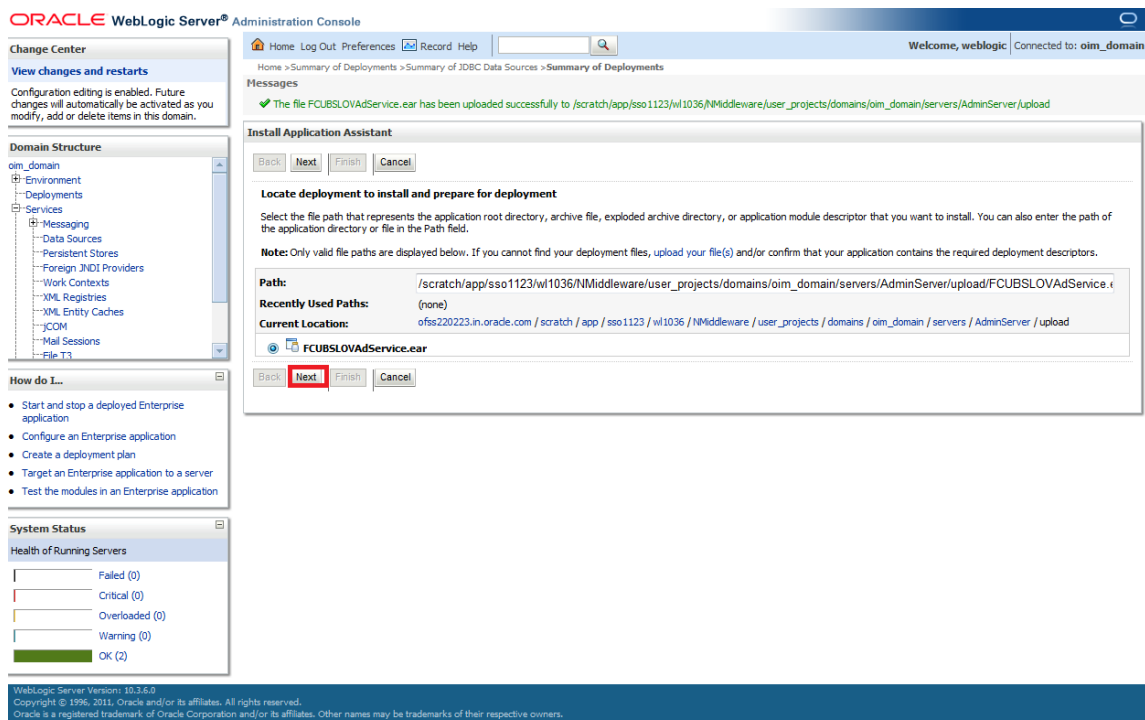
<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\build\

8. Click on Next

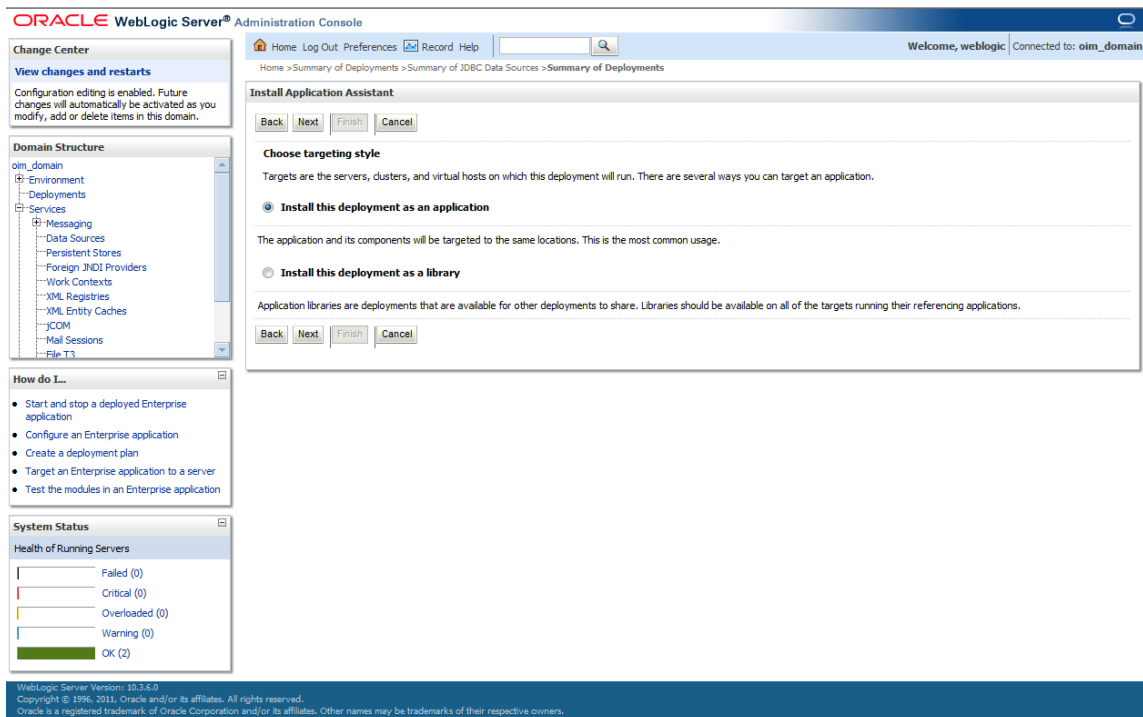


9. Select the enterprises archive file FCUBSLOVAdService.ear

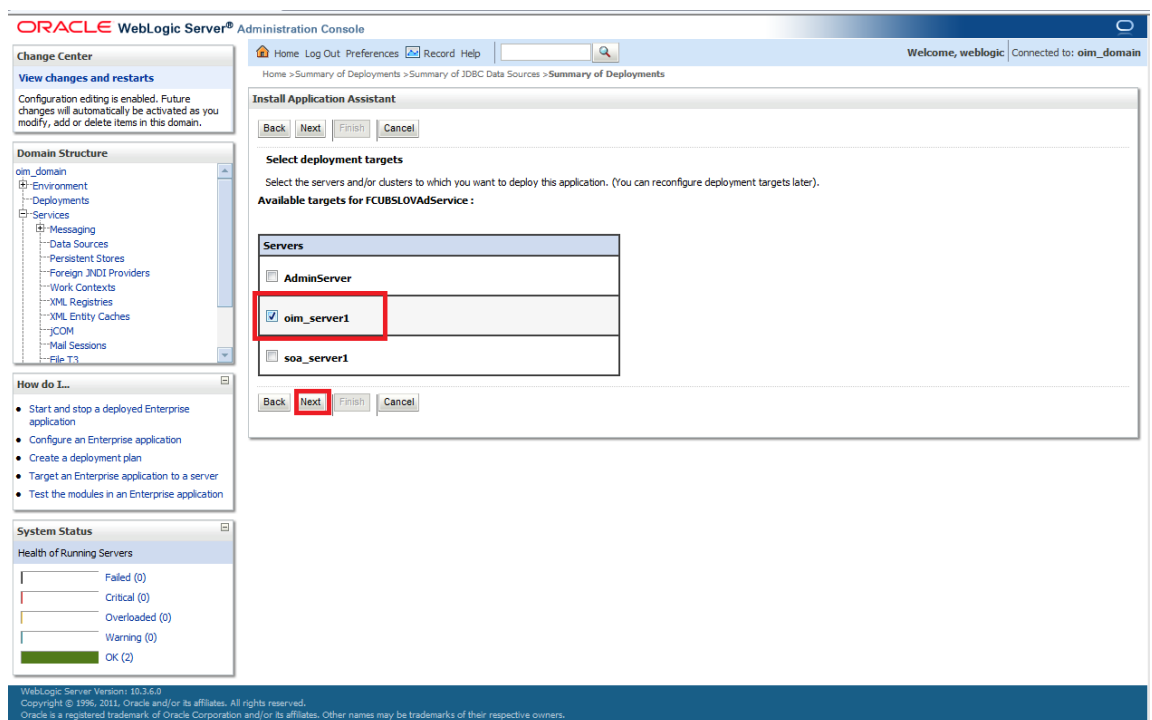
10. Click on Next



11. The following screen is displayed.
12. Select – Install this deployment as an application.
13. Click on Next.

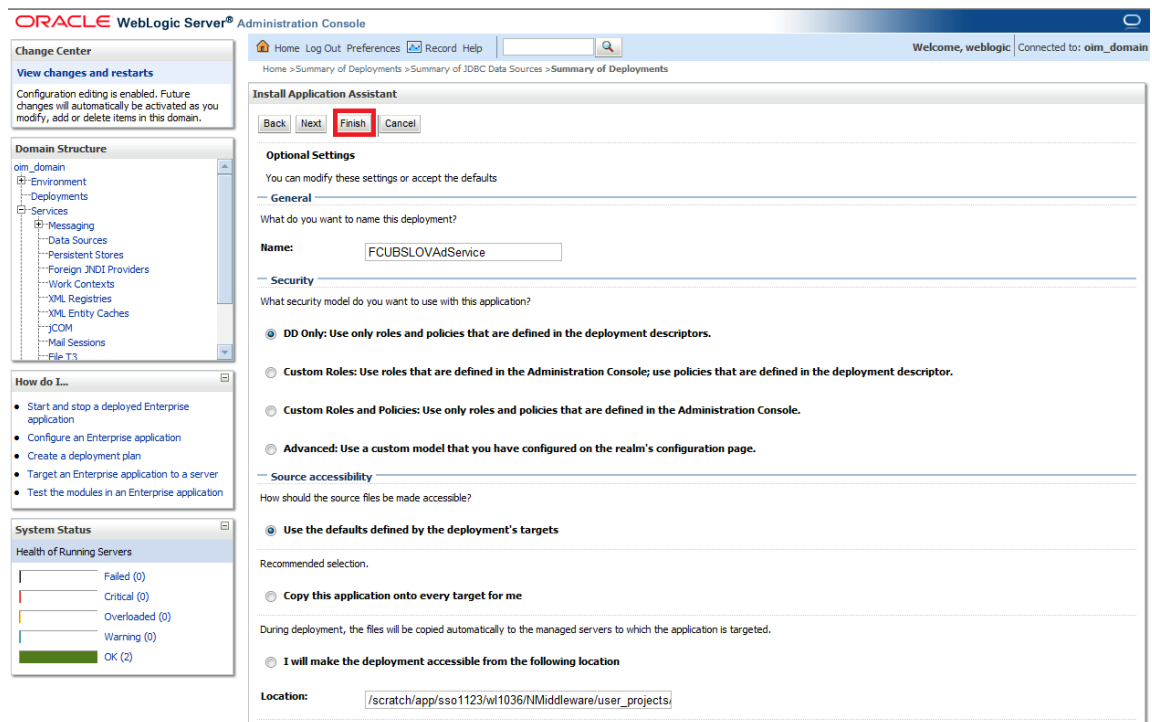


14. The following screen is displayed.
15. Select the Application Server Instance in which the FCUBSLOVAdService needs to be deployed.
16. Click on Next.



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.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: oim\_domain

Home > Summary of Deployments > Summary of JDBC Data Sources > Summary of Deployments > GWEJB > Summary of Deployments > Summary of JDBC Data Sources > Summary of Deployments

### Summary of Deployments

Control Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

**Customize this table**

#### Deployments

Install Update Delete Start Stop

Showing 11 to 20 of 92 Previous Next

| Name                                      | State  | Health | Type                   | Deployment Order |
|---|--------|--------|------------------------|------------------|
| email                                     | Active |        | Library                | 100              |
| emas                                      | Active |        | Library                | 100              |
| emcore                                    | Active |        | Library                | 100              |
| FCUBSLOVAdService                         | Active | OK     | Enterprise Application | 100              |
| FileAdapter                               | Active | OK     | Resource Adapter       | 321              |
| FMW Welcome Page Application (11.1.0.0.0) | Active | OK     | Enterprise Application | 5                |
| FtpAdapter                                | Active | OK     | Resource Adapter       | 325              |
| <b>GWEJB</b>                              | Active | OK     | Enterprise Application | 100              |
| Modules                                   |        |        |                        |                  |
| GW_EJB_Bean.jar                           |        |        | EJB Module             |                  |
| EJBs                                      |        |        |                        |                  |
| GWEJB_GW_EJB_Bean                         |        |        | EJB                    |                  |
| Web Services                              |        |        |                        |                  |
| None to display                           |        |        |                        |                  |

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.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: oim\_domain

Home > Summary of Deployments > Summary of JDBC Data Sources > Summary of Deployments > GWEJB > Summary of Deployments > GWEJB > Summary of JDBC Data Sources > Summary of Deployments

### Install Application Assistant

Back Next **Finish** Cancel

#### Optional Settings

You can modify these settings or accept the defaults

##### General

What do you want to name this deployment?

**Name:** FCUBSProvisioningAdService

##### Security

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

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

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

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

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

##### Source accessibility

How should the source files be made accessible?

☒ **Use the defaults defined by the deployment's targets**

Recommended selection.

☐ **Copy this application onto every target for me**

During deployment, the files will be copied automatically to the managed servers to which the application is targeted.

☐ **I will make the deployment accessible from the following location**

**Location:** /scratch/app/sso1123/wl1036/NMiddleware/user\_projects

## 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

- <ELCM Release Name>\ADAPTERS\OIM\OIM-Config
- <ELCM 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\ FCUBSLOV SchTask folder with the name **FCUBSLOV SchTask.Jar**

- Copy this FCUBSLOV SchTask.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/FCUBSLOV SchTask folder with the name **FCUBSLOV SchTask.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.oid.utility.eventhandler.LdapUserPrepopulateAdapter" version="1.0"

    name="LdapUserPrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::LDAPUSR</value>

</metadata>

</plugin>

<plugin pluginclass="com.oracle.oid.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.oid.utility.eventhandler.UserPasswordPreProcessHandler" version="1.0"

    name="UserPasswordPreProcessHandler"></plugin>

</plugins>

</oidplugins>

```

- 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
- 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 be 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.

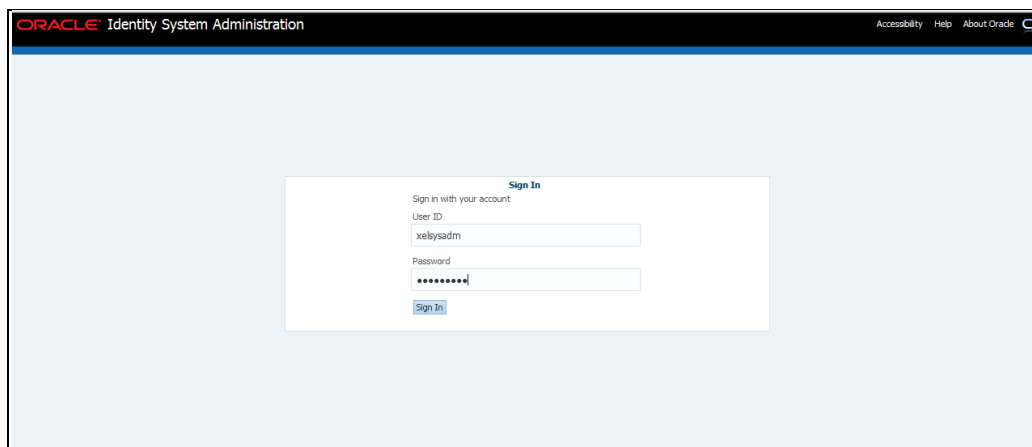
Prerequisite: Ensure that OIM setup steps have been followed properly.

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

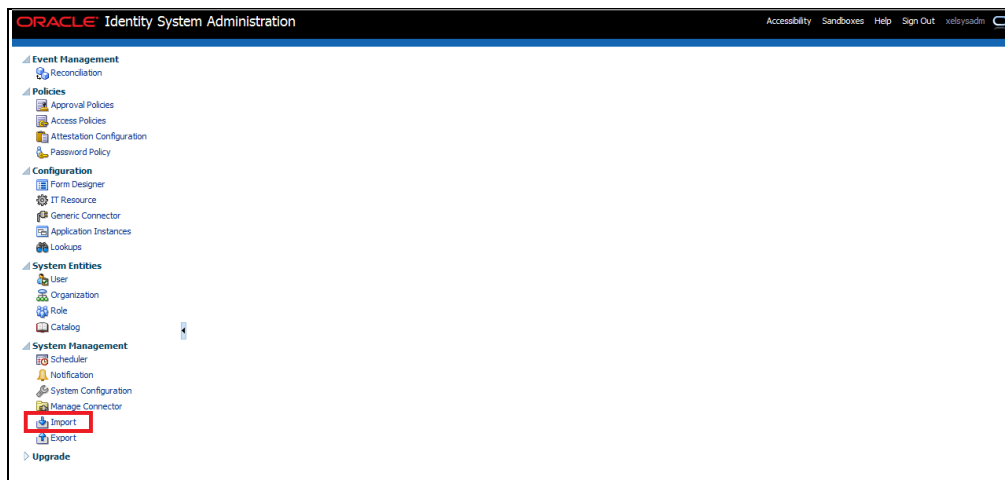
Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: <http://<hostname>:<oimport>/sysadmin>)

#### 7. Login to Administrative Console

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

The screenshot shows the Oracle Identity System Administration web interface. At the top, there is a header bar with the Oracle logo, the text "Identity System Administration", and links for "Accessibility", "Help", and "About Oracle". The main content area is light blue and contains a white "Sign In" box. Inside this box, the text "Sign in with your account" is followed by two input fields: "User ID" with the value "xellsysadm" and "Password" with masked characters "\*\*\*\*\*". Below the password field is a blue "Sign In" button.

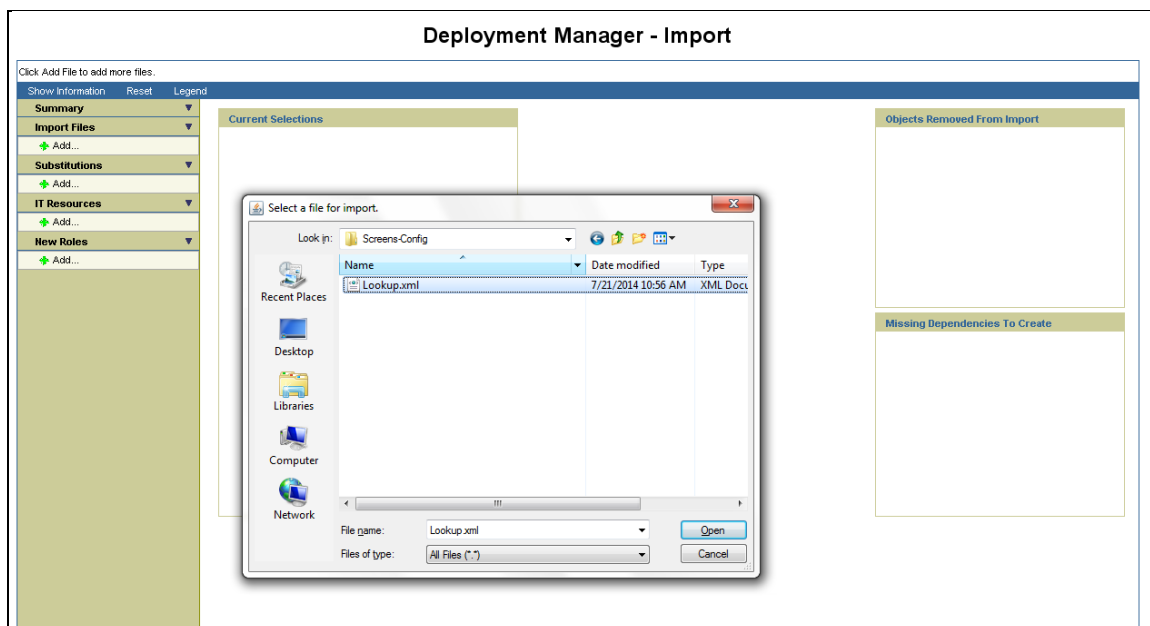
9. Click on Import option under System Management.



The following screen will get displayed with Add File option.

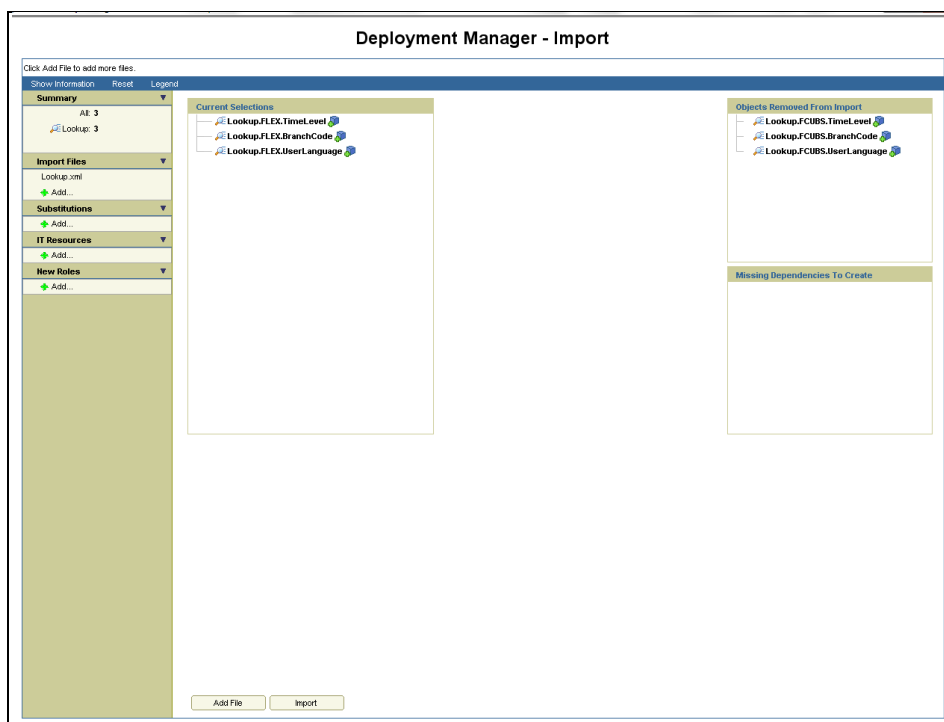
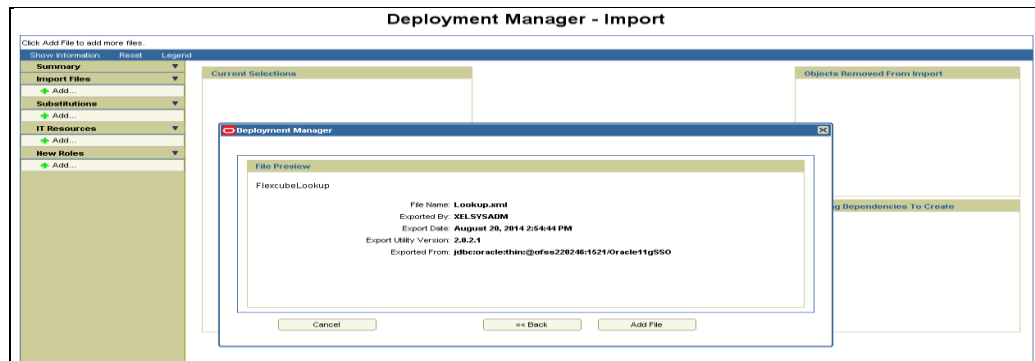
10. Select Lookup.xml file from the folder <SPMLADAPTER\_INSTALL\_DIR>\OIM\OIM-Config\Screens-Config.

11. Click on Open.



We will get File preview screen

12. Click on Add file.

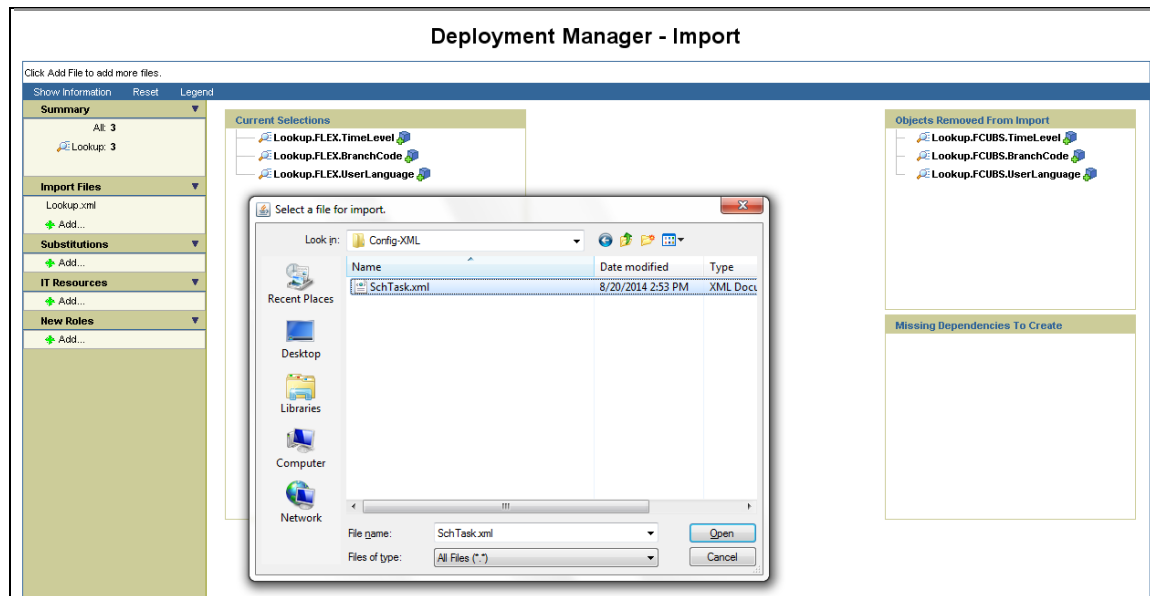


13. Click on Add File

14. Select Rule.xml file from the folder

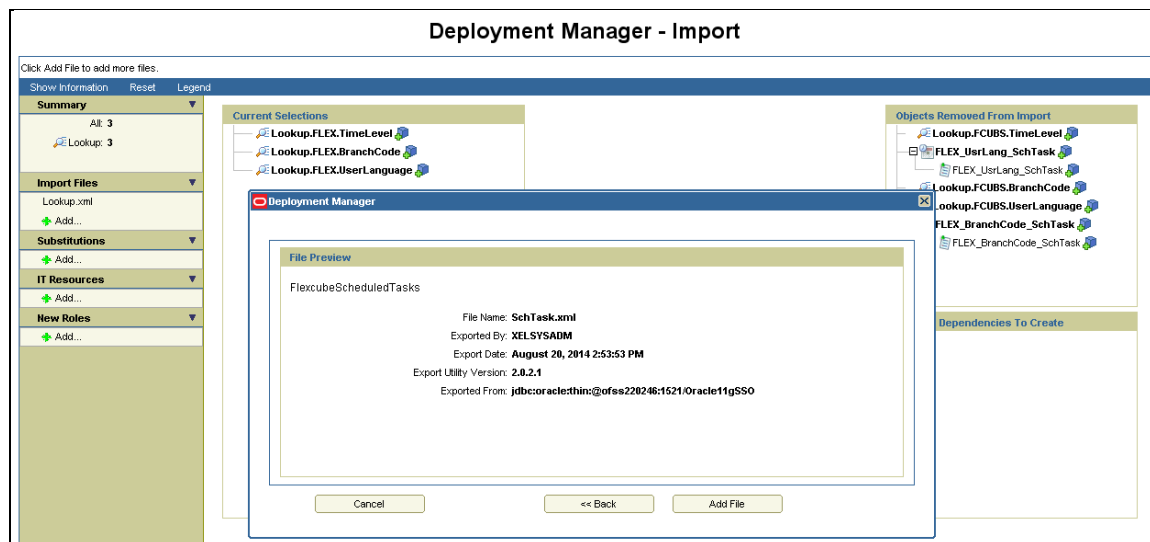
<SPMLADAPTER\_INSTALL\_DIR>\OIM\OIM-Config\Sch-Tasks\Config-XML.

15. Click on Open.

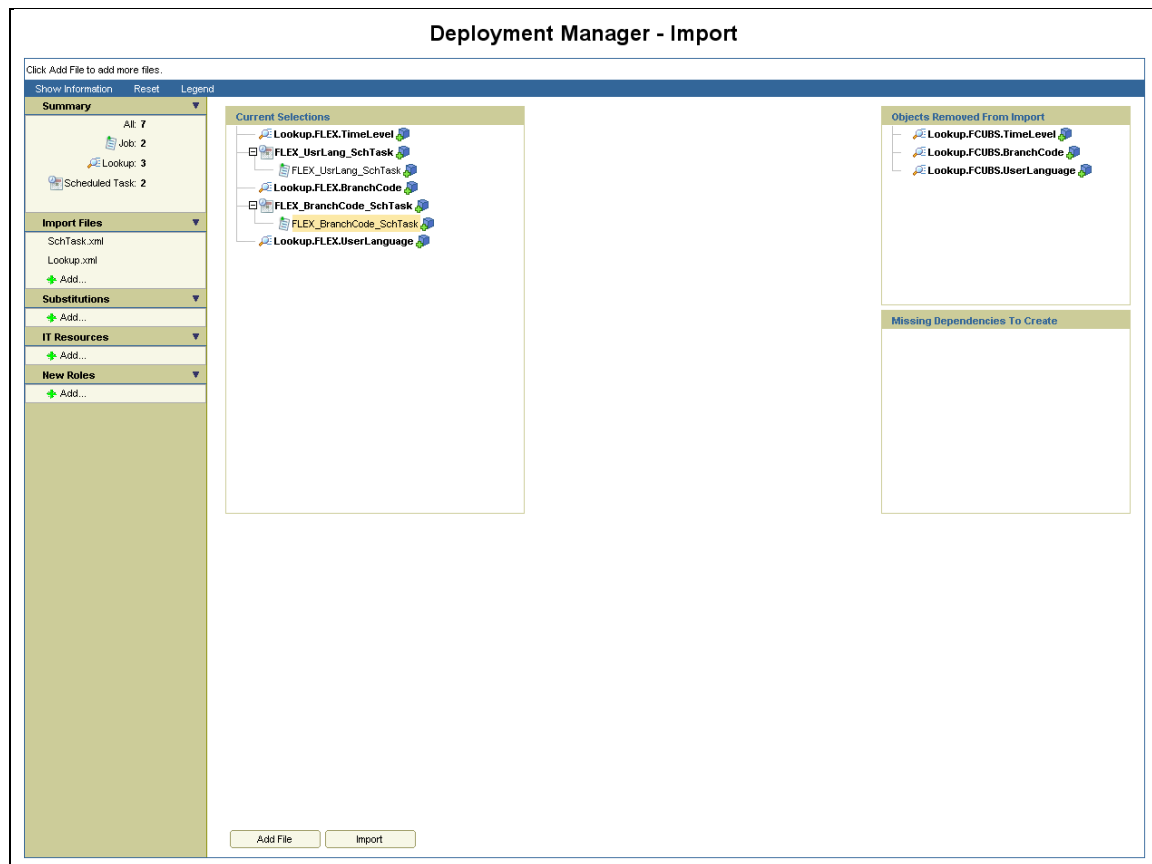


We will get File preview screen

16. Click on Add file.

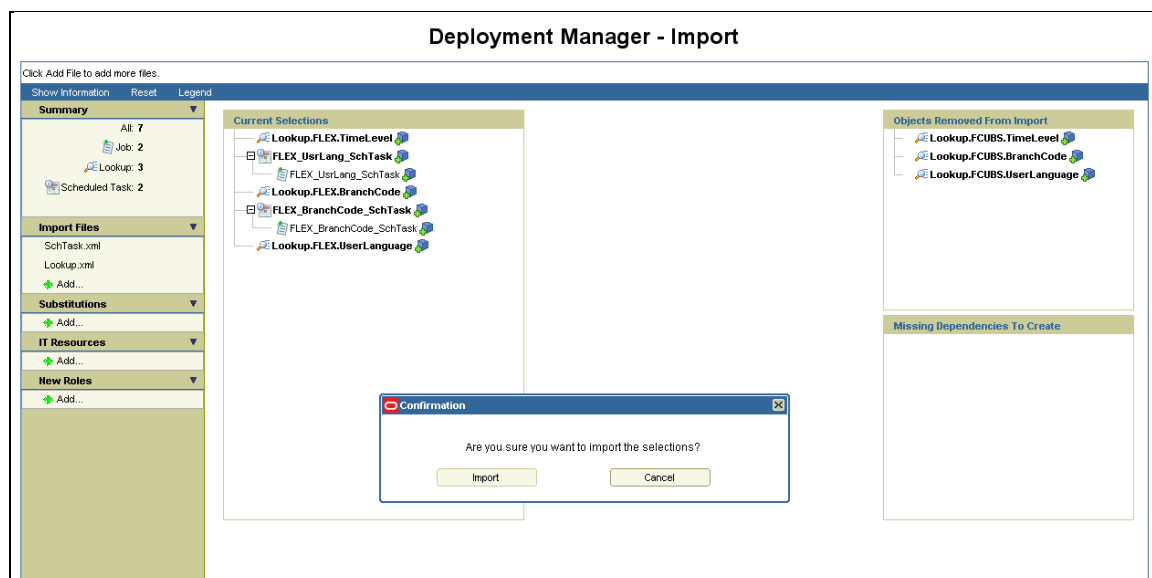


17. Click on Import.



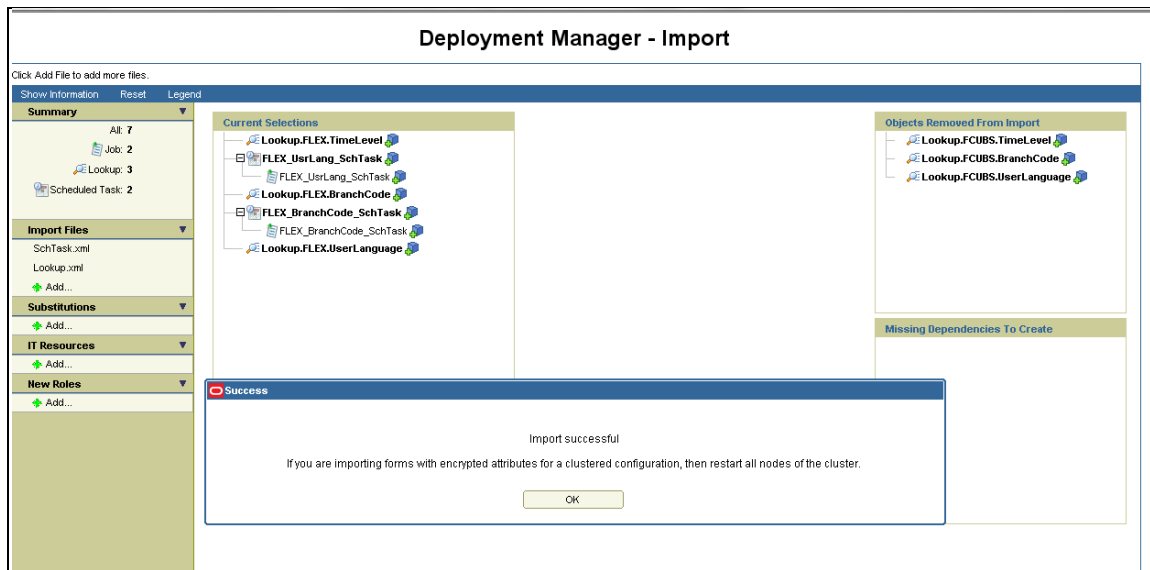
Above will prompt for Import Confirmation

18. Click on Import to start import.



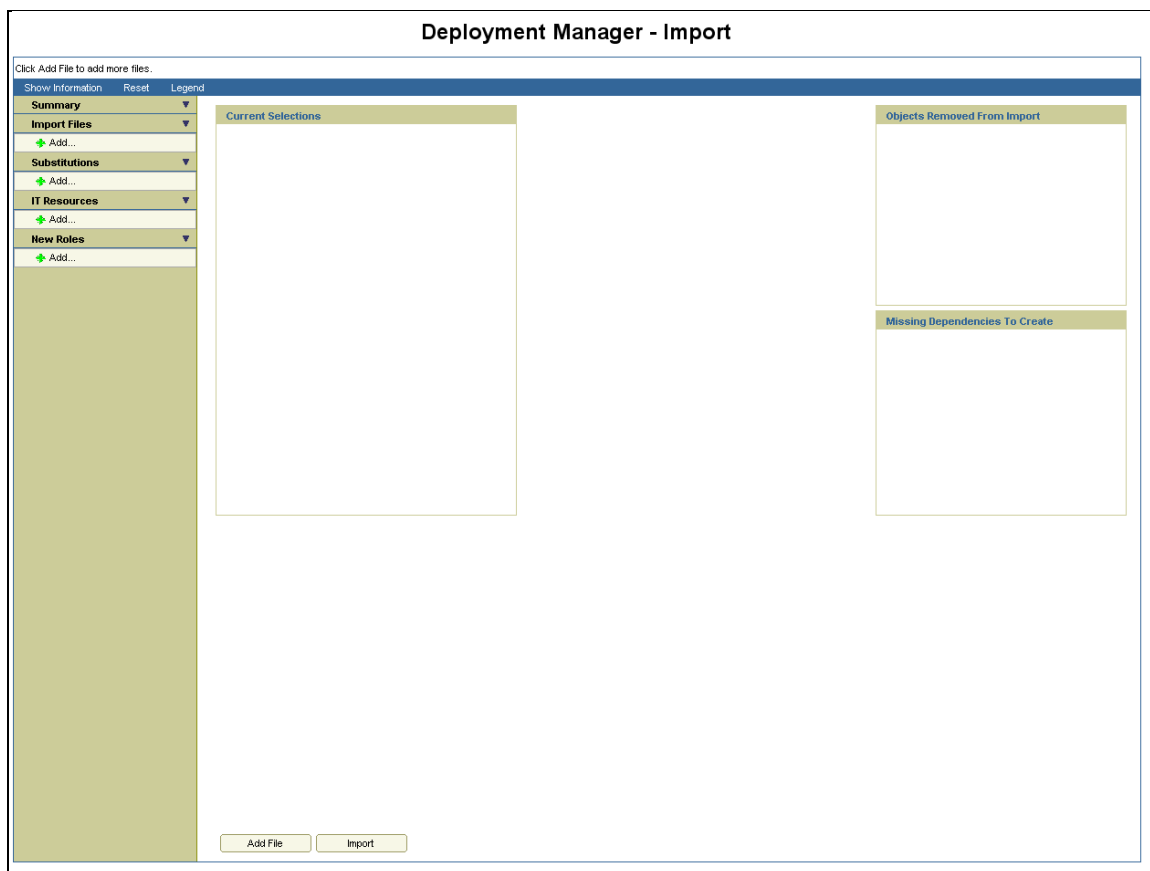
On successful import following screen will come.

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



The following screen will get displayed.

20. Click on Add File.

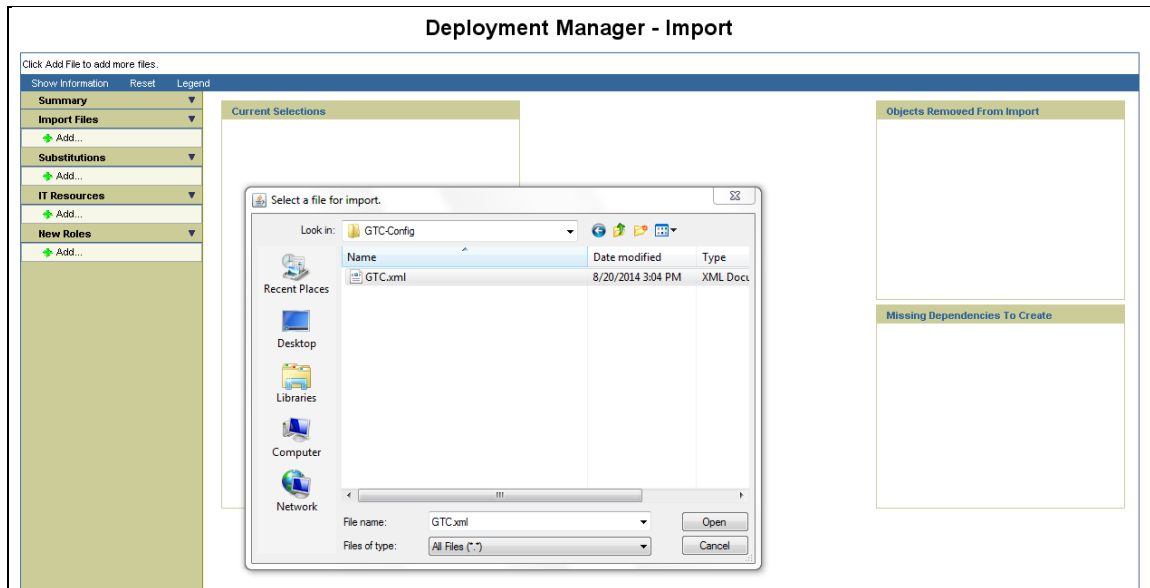




Open file window will get appeared.

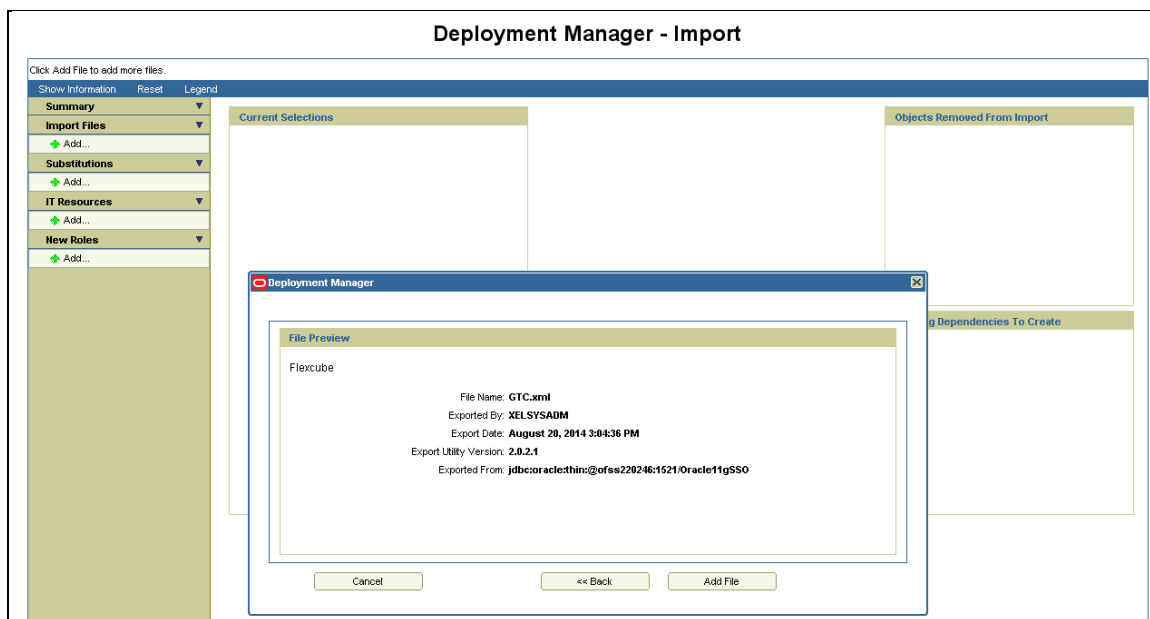
21. Select GTC.xml file from the folder <SPMLADAPTER\_INSTALL\_DIR>\OIM\OIM-Config\GTC\.

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.

The screenshot shows the 'Deployment Manager - Import' window. On the left is a sidebar with a tree view containing 'Summary', 'Import Files', 'Substitutions', 'IT Resources', and 'New Roles', each with an 'Add...' button. The main area is divided into three panes: 'Current Selections' (empty), 'Objects Removed From Import' (empty), and 'Missing Dependencies To Create' (empty). A 'Substitutions' dialog box is open in the center, titled 'Deployment Manager - Import'. It contains the text 'Provide the substitutions for the users/groups (Optional).'. Below this is a table with three columns: 'Type', 'Current Name', and 'New Name'. The table contains the following data:

| Type                | Current Name          | New Name |
|---------------------|-----------------------|----------|
| Role                | SYSTEM ADMINISTRATORS |          |
| User                | XELSYSADM             |          |
| UD_FLEXCUBE Version | 2                     |          |
| Role                | SELF OPERATORS        |          |
| Role                | ALL USERS             |          |

At the bottom of the dialog are 'Cancel Substitution' and 'Next' buttons.

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.

The screenshot shows the 'Deployment Manager - Import' window with the same sidebar and main panes as the previous image. A 'Confirmation' dialog box is open in the center, titled 'Confirmation'. It contains the text 'No Substitutions made. Click Back to go back and make substitutions.' At the bottom of the dialog are three buttons: 'Cancel Substitution', '<< Back', and '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/ELCM-OIM-Config/Staging   |
| Webservices_webserviceURL    | Provisioning web service<br><b>FCUBSProvisioningAdService</b> URL deployed in step<br>.Typically it should be like<br>https://<hostName>:<port>/FCUBSProvisioningAdService/FCUBSProvisioningAdServiceSEI<br><br>Eg:<br>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/ELCM-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

Deployment Manager

Provide IT Resource Instance Data.

FLEXCUBE\_GTC

FLEXCUBE\_GTC

<< New Instance>>

| Parameter Name                  | Parameter Value          |
|---------------------------------|--------------------------|
| SPML_username                   |                          |
| SharedDrive_uniqueAttrParent    | USERID                   |
| WebServices_webServiceURL       | https://ofss220223-24001 |
| SharedDrive_stageDirParent      | /scratch/work_area/DEV/  |
| SPML_targetID                   | FLEXCUBE                 |
| SharedDrive_archiveDir          | /scratch/work_area/DEV/  |
| SharedDrive_delimiter           | ,                        |
| SharedDrive_whetherTabDelimited |                          |
| SharedDrive_filePrefix          | SMOIMHOFF                |
| Timestamp                       |                          |

Cancel IT Resource Modification

<< Back

Skip

Next

Objects Removed From Import

Missing Dependencies To Create

5-38

ORACLE®

The following screen will get displayed.

31. Click on Skip.

The screenshot shows the 'Deployment Manager - Import' window. On the left is a sidebar with a tree view containing 'Summary', 'Import Files', 'Substitutions', 'IT Resources', and 'New Roles', each with an 'Add...' button. The main area is divided into three panes: 'Current Selections' (empty), 'Objects Removed From Import' (empty), and 'Missing Dependencies To Create' (empty). A modal dialog titled 'Deployment Manager' is open, titled 'Provide IT Resource Instance Data'. It shows a tree view with 'FLEXCUBE\_GTC' selected. Below the tree is a table for parameters:

| Parameter Name                  | Parameter Value |
|---------------------------------|-----------------|
| SPML_username                   |                 |
| SharedDrive_uniqueAttrParent    |                 |
| WebServices_webServiceURL       |                 |
| SharedDrive_stageDirParent      |                 |
| SharedDrive_archiveDir          |                 |
| SharedDrive_delimiter           |                 |
| SharedDrive_whetherTabDelimited |                 |
| Timestamp                       |                 |

At the bottom of the dialog are buttons: 'Cancel IT Resource Modification', '<< Back', 'Skip', and 'Next'.

A confirmation window for parameter values will get displayed.

32. Confirm the values and click on View Selections.

The screenshot shows the 'Deployment Manager - Import' window with the same sidebar and panes as before. A modal dialog titled 'Confirmation' is open. It displays a tree view with 'FLEXCUBE\_GTC' expanded, showing a list of parameters and their values:

- SharedDrive\_uniqueAttrParent: USERID
- Timestamp:
- SharedDrive\_delimiter: ,
- SharedDrive\_whetherTabDelimited:
- SPML\_targetID: FLEXCUBE
- SharedDrive\_fixedWidth:
- SPML\_userPassword:

At the bottom of the dialog are buttons: 'Cancel IT Resource Modification', '<< Back', and '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

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

Application Instance: 1

Generic Connector: 1

Organization: 3

IT Resource: 1

Password Policy: 1

Job: 1

Data Object Definition: 1

Process: 1

Scheduled Task: 1

**Import Files**

GTC.xml

Add...

**Substitutions**

Add...

**IT Resources**

FLEXCUBE\_GTC (FLEXCUBE\_GT

<    >

**New Roles**

**Current Selections**

FLEXCUBE\_GTC  
 FLEXCUBE\_GTC  
 FLEXCUBE\_GTC  
 FLEXCUBE\_GTC  
 FLEXCUBE\_GTC  
 adpFLEXCUBE\_GTC\_AUTOC  
 UD\_FLEXCUBE  
 adpFLEXCUBE\_GTC  
 FLEXCUBE\_GTC  
 ApplicationInstance2  
 Top  
 Default Policy  
 Xellerate Users  
 Requests  
 ApplicationInstance3  
 Requests  
 FLEXCUBE\_GTC  
 FLEXCUBE\_GTC  
 ApplicationInstance2  
 Top  
 Default Policy

**Objects Removed From Import**

**Missing Dependencies To Create**

Add File

Import

35. Click on Import to start import.

Click Add File to add more files.

Show Information   Reset   Legend

**Summary**

Alt: 18

- IT Resource Definition: 1
- Resource: 1
- Task Adapter: 2
- Process Form: 1
- Entity Publication: 2
- Application Instance: 1
- Generic Connector: 1
- Organization: 3
- IT Resource: 1
- Password Policy: 1
- Job: 1
- Data Object Definition: 1
- Process: 1
- Scheduled Task: 1

**Import Files**

GTC.xml

Add...

**Substitutions**

Add...

**IT Resources**

FLEXCUBE\_GTC (FLEXCUBE\_GTC)

<   >

**New Roles**

**Current Selections**

- FLEXCUBE\_GTC
- FLEXCUBE\_GTC
- FLEXCUBE\_GTC
- FLEXCUBE\_GTC
- FLEXCUBE\_GTC
- adpFLEXCUBE\_GTC\_AUTOC

**Confirmation**

Are you sure you want to import the selections?

Import   Cancel

**Objects Removed From Import**

Missing Dependencies To Create

Add File   Import

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**  
Alt: 18  
IT Resource Definition: 1  
Resource: 1  
Task Adapter: 2  
Process Form: 1  
Entity Publication: 2  
Application Instance: 4  
General  
Pas  
Data Obj  
Scheduled Task: 1

**Current Selections**  
FLEXCUBE\_GTC  
FLEXCUBE\_GTC  
FLEXCUBE\_GTC  
FLEXCUBE\_GTC  
FLEXCUBE\_GTC  
FLEXCUBE\_GTC

**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

**Import Files**  
GTC.xml  
Add...  
**Substitutions**  
Add...  
**IT Resources**  
FLEXCUBE\_GTC (FLEXCUBE\_GT  
Add...  
**New Roles**

**Organization**  
Requests  
ApplicationInstance3  
Requests  
FLEXCUBE\_GTC  
FLEXCUBE\_GTC  
ApplicationInstance2  
Top  
Default Policy

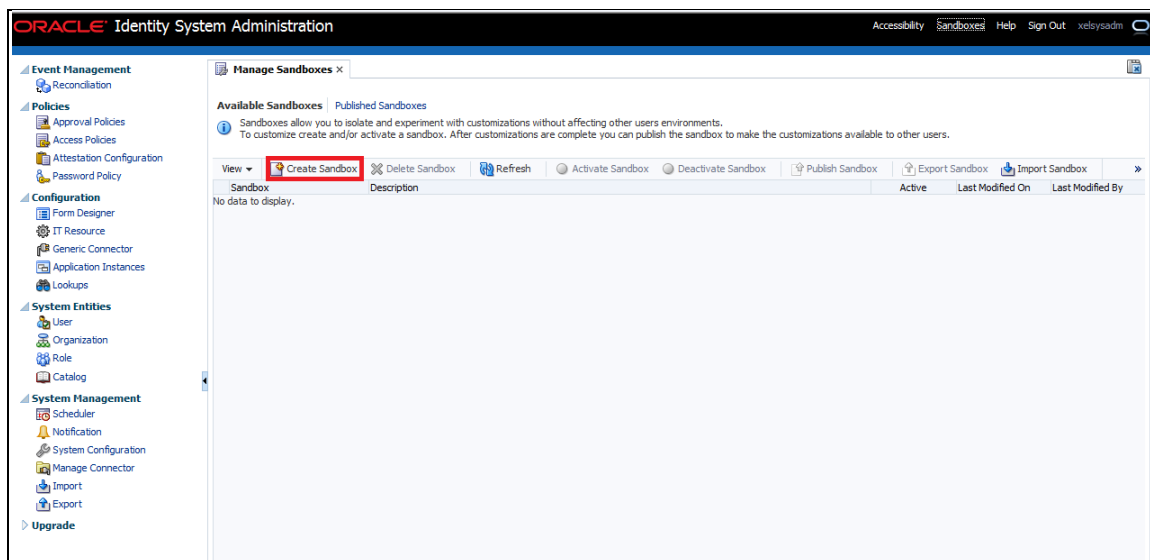
Add File   Import



37. Click on Sandboxes.



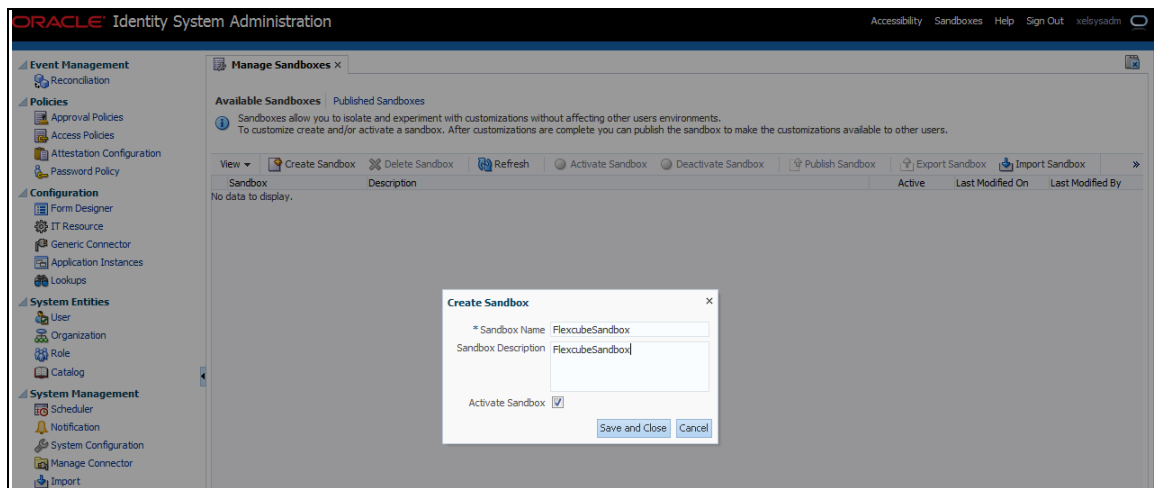
38. Click on Create Sandbox.



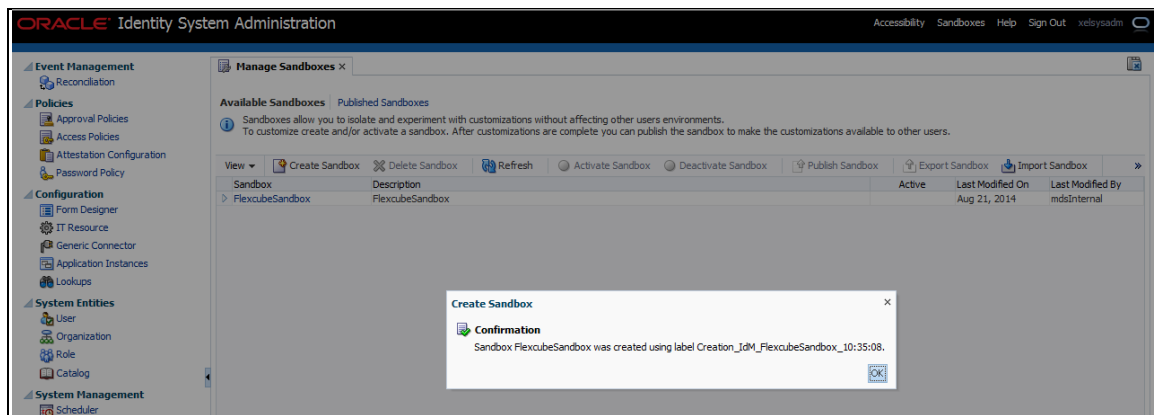
Enter the Below Details and Click on Save and Close.

39. Sandbox Name : FlexcubeSandbox

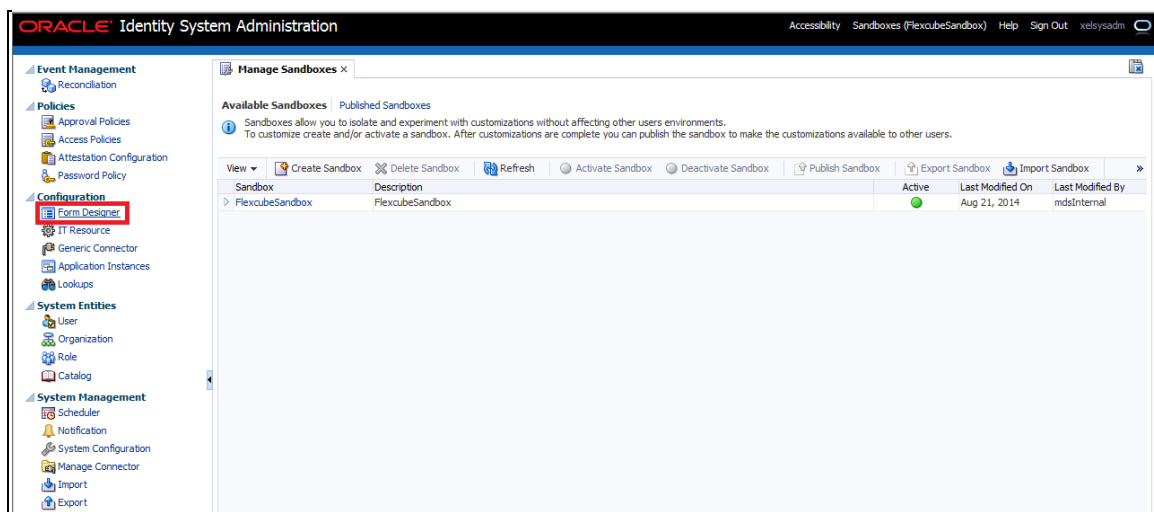
40. Sandbox Description : FlexcubeSandbox



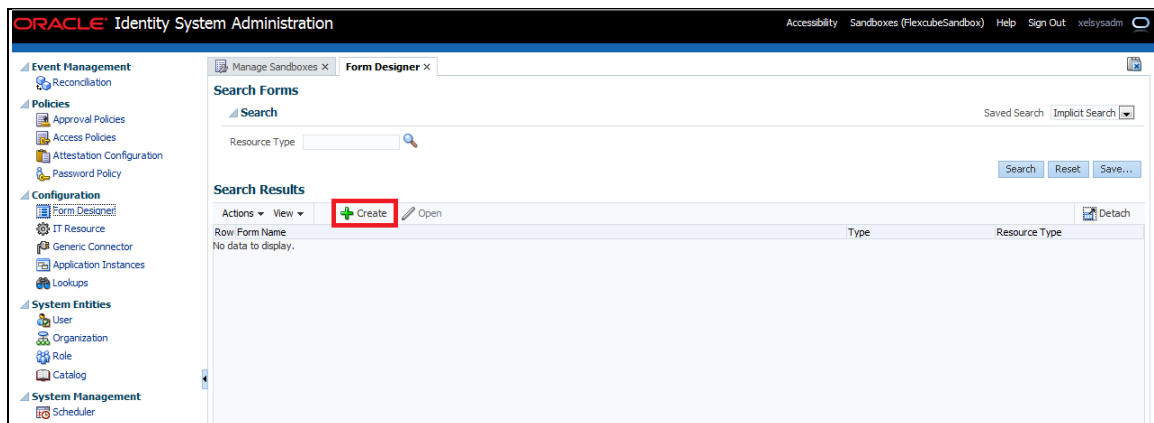
41. Click on Ok.



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

**Available form fields**

| #  | Display Name | Name                     | Description  | Bulk Update              |
|----|--------------|--------------------------|--------------|--------------------------|
| 1  | containerID  | UD_FLEXCUBE_CONTAINERID  | containerID  | <input type="checkbox"/> |
| 2  | objectclass  | UD_FLEXCUBE_OBJECTCLASS  | objectclass  | <input type="checkbox"/> |
| 3  | ID           | UD_FLEXCUBE_ID           | ID           | <input type="checkbox"/> |
| 4  | USERID       | UD_FLEXCUBE_USERID       | USERID       | <input type="checkbox"/> |
| 5  | USERNAME     | UD_FLEXCUBE_USERNAME     | USERNAME     | <input type="checkbox"/> |
| 6  | USERPASSWORD | UD_FLEXCUBE_USERPASSWORD | USERPASSWORD | <input type="checkbox"/> |
| 7  | HOMEBRANCH   | UD_FLEXCUBE_HOMEBRANCH   | HOMEBRANCH   | <input type="checkbox"/> |
| 8  | USERLANGUAGE | UD_FLEXCUBE_USERLANGUAGE | USERLANGUAGE | <input type="checkbox"/> |
| 9  | TIMELEVEL    | UD_FLEXCUBE_TIMELEVEL    | TIMELEVEL    | <input type="checkbox"/> |
| 10 | STARTDATE    | UD_FLEXCUBE_STARTDATE    | STARTDATE    | <input type="checkbox"/> |
| 11 | EMAIL        | UD_FLEXCUBE_EMAIL        | EMAIL        | <input type="checkbox"/> |
| 12 | LDAPUSR      | UD_FLEXCUBE_LDAPUSR      | LDAPUSR      | <input type="checkbox"/> |
| 13 | IT Resource2 | UD_FLEXCUBE_IT_RES       | IT Resource2 | <input type="checkbox"/> |

Successful form creation will be like below:

**Search Results**

| Row                 | Form Name | Type | Resource Type |
|---------------------|-----------|------|---------------|
| No data to display. |           |      |               |

45. Click on Application Instances.

ORACLE Identity System Administration

AccessibilitySandboxes (FlexcubeSandbox)HelpSign Outxelsysadm

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 X

Form Designer X

Search Forms

Search

Resource Type

Search Results

Actions View Create Open

Row Form Name Type Resource Type

No data to display.

46. Click on Search.

The screenshot shows the Oracle Identity System Administration interface. The left sidebar contains navigation menus for Event Management, Policies, Configuration, System Entities, and System Management. The main content area is titled "Search Application Instances". It includes a search filter section with "Match" set to "All" and three input fields for "Resource Object", "Display Name", and "IT Resource Instance", each with a "Starts with" dropdown. Below the filters is a "Search" button highlighted with a red box, along with "Reset", "Save...", and "Add Fields" buttons. The "Search Results" section shows a table with columns: Row, Display Name, Description, Resource Object, and IT Resource Instance. The table is currently empty, displaying "No data to display".

47. Click on FLEXCUBE\_GTC.

The screenshot shows the same Oracle Identity System Administration interface. The "Search" button has been clicked, and the "Search Results" table now contains one row. The row is highlighted with a red box and contains the following data: Row 1, Display Name FLEXCUBE\_GTC, Description FLEXCUBE\_GTC, Resource Object FLEXCUBE\_GTC, and IT Resource Instance FLEXCUBE\_GTC.

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

The screenshot shows the Oracle Identity System Administration interface for the "Application Instance: FLEXCUBE\_GTC". The left sidebar is the same. The main content area has tabs for "Attributes", "Organizations", and "Entitlements". The "Attributes" tab is active. It shows a form with fields for Name, Display Name, Description, Resource Object, IT Resource Instance, Form, and Parent Appliance. The "Form" field is set to "FlexcubeForm" and is highlighted with a red box. The "Parent Appliance" field is also set to "FlexcubeForm". At the top right of the form, there is a "\*Required Field" label and an "Apply" button highlighted with a red box, along with a "Revert" button.



On Successful modification will be shown like below:

Oracle Identity System Administration

Application Instance: FLEXCUBE\_GTC

Attributes | Organizations | Entitlements

Name: FLEXCUBE\_GTC

\* Display Name: FLEXCUBE\_GTC

Description: FLEXCUBE\_GTC

Resource Object: FLEXCUBE\_GTC

IT Resource Instance: FLEXCUBE\_GTC

Form: FlexcubeForm

Parent App Instance:

\*Required Field [Apply] [Revert]

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.

Oracle Identity System Administration

Application Instance: FLEXCUBE\_GTC

Attributes | Organizations | Entitlements

Organizations to which this application instance is available to are shown below.

Actions: View, Assign, Revoke, Refresh, Detach

| Row | Organization Name | Type   | Hierarchy aware                                      |
|-----|-------------------|--------|--|
| 1   | Top               | System | <input checked="" type="checkbox"/> include sub-orgs |
| 2   | Requests          | System | <input checked="" type="checkbox"/> include sub-orgs |

[Apply] [Revert]

49. Select and click on Publish Sandbox.

Oracle Identity System Administration

Manage Sandboxes

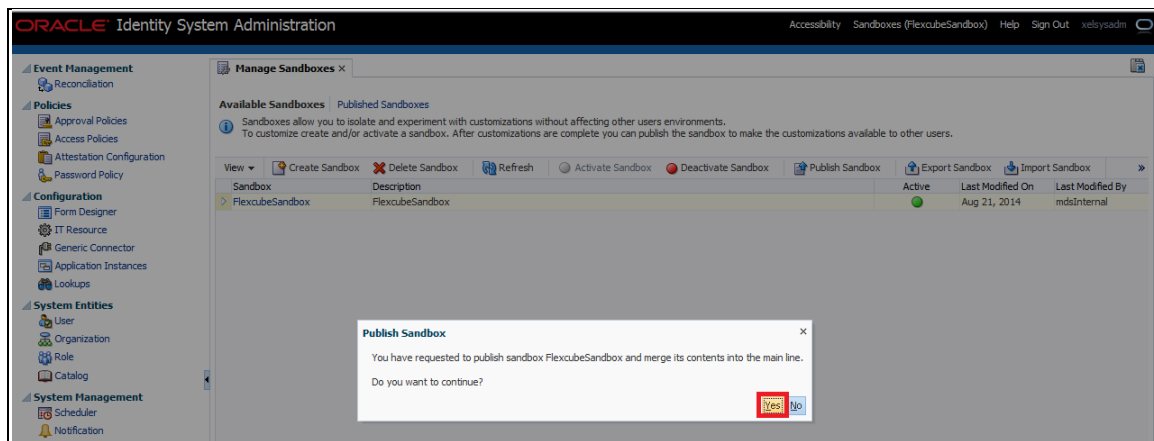
Available Sandboxes | Published Sandboxes

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.

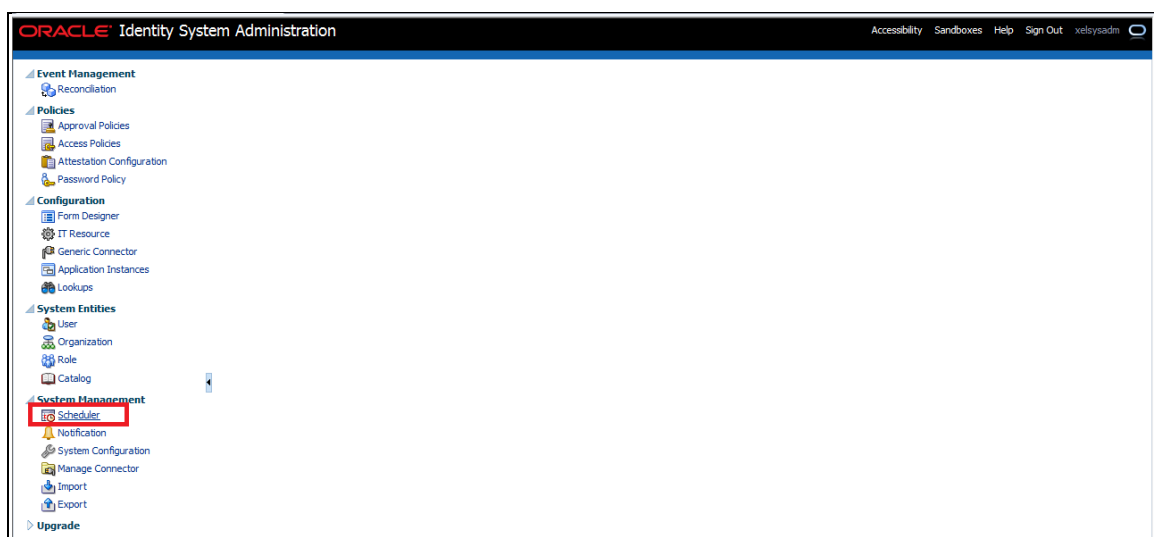
View, Create Sandbox, Delete Sandbox, Refresh, Activate Sandbox, Deactivate Sandbox, Publish Sandbox, Export Sandbox, Import Sandbox


| Sandbox         | Description     | Active                              | Last Modified On | Last Modified By |
|-----------------|-----------------|-------------------------------------|------------------|------------------|
| FlexcubeSandbox | FlexcubeSandbox | <input checked="" type="checkbox"/> | Aug 21, 2014     | mdsInternal      |

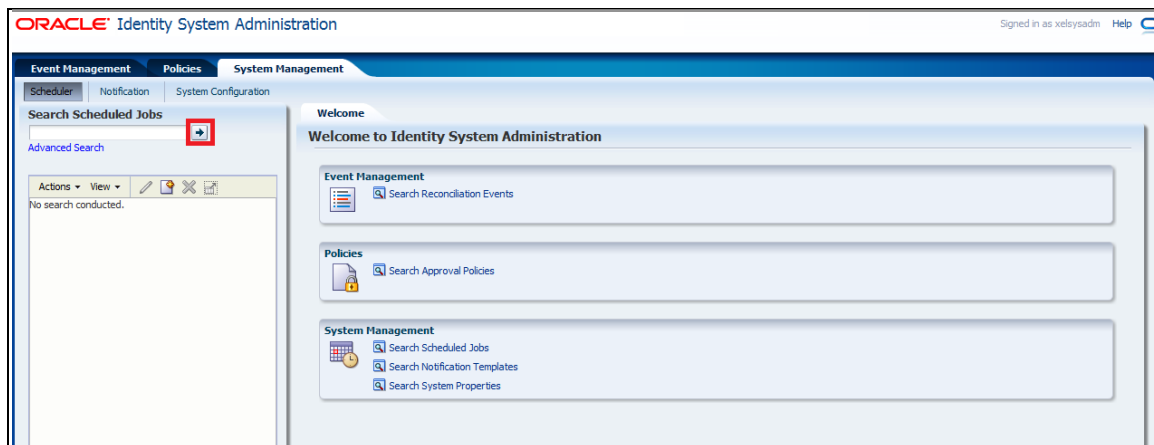




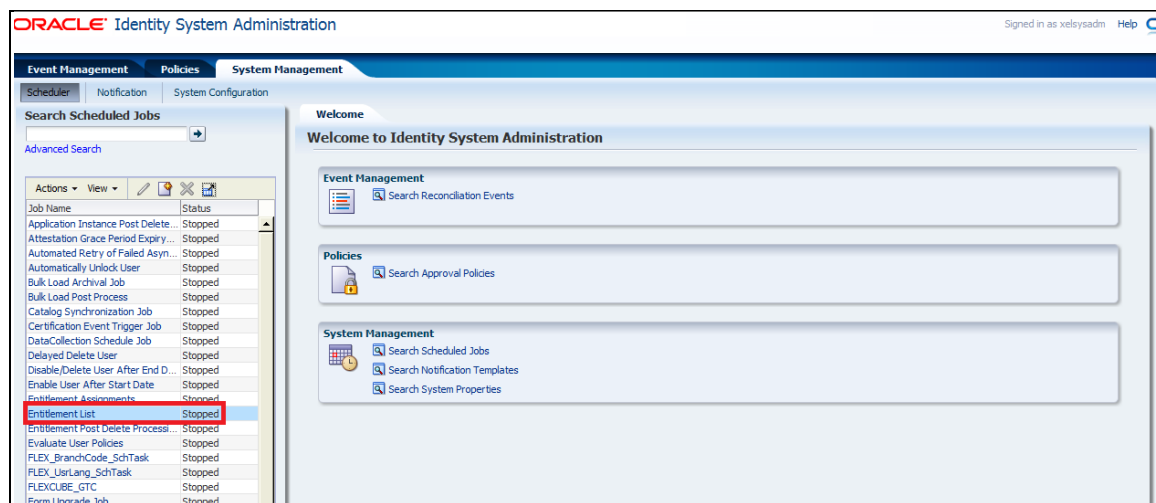
50. Click on Scheduler under System Management.



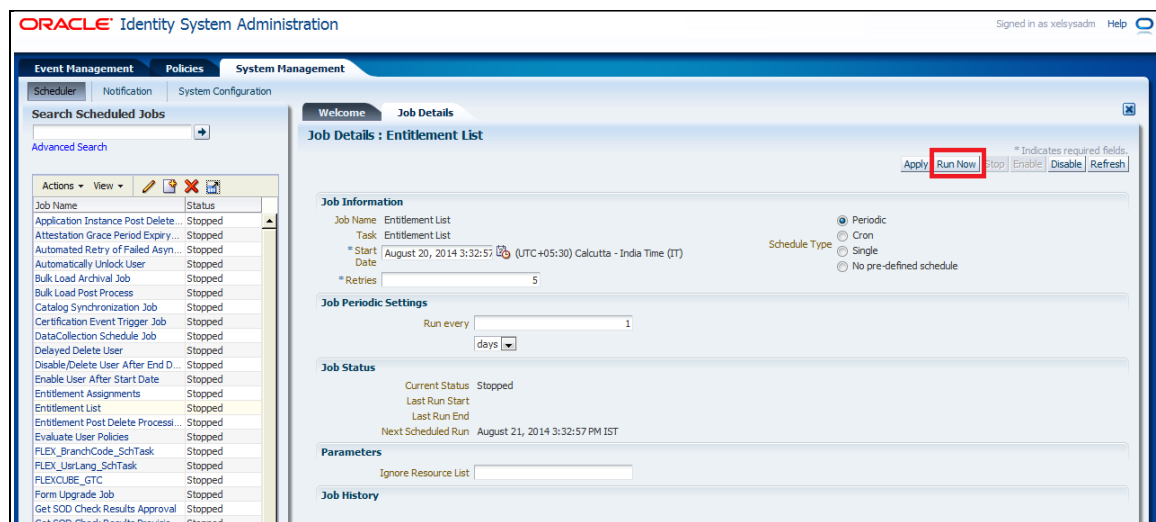
51. Click on  to Search for Scheduled Job List.



## 52. Click on Entitlement List



## 53. Click on Run.

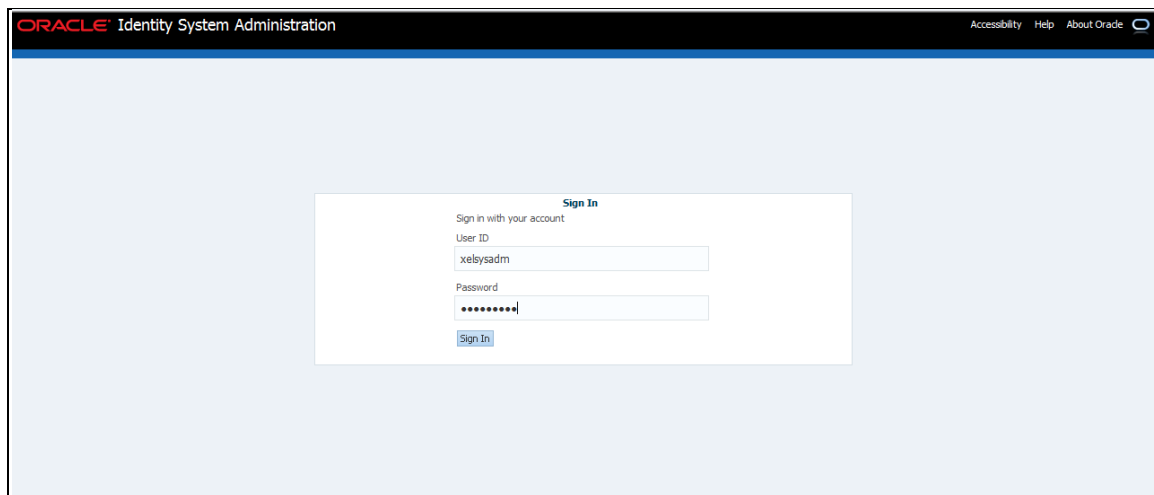


### 5.1.5.1.1 Schedule Task Setup

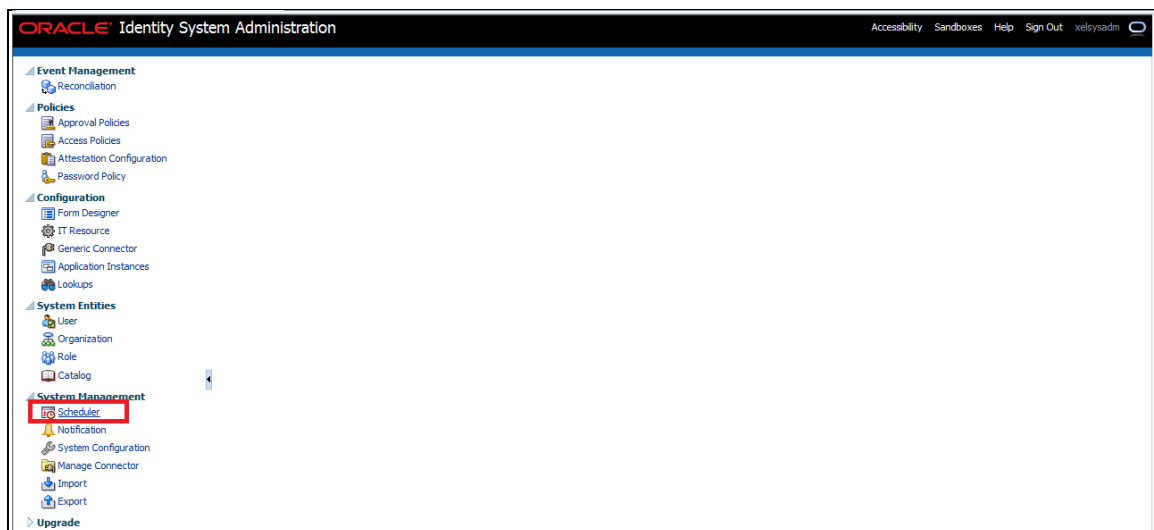
This step involves setting up Schedule task parameters.


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

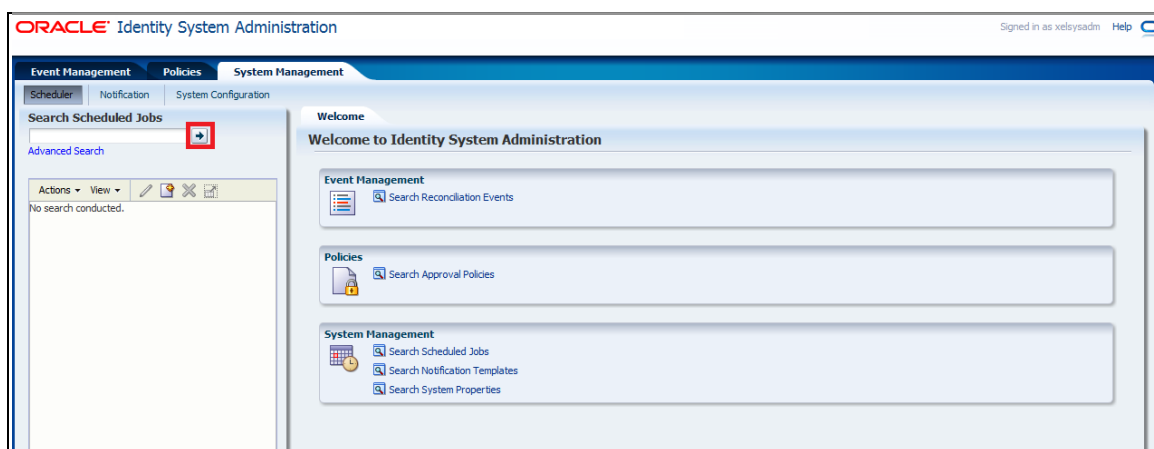
2. Enter OIM administrator username/password and press Login.



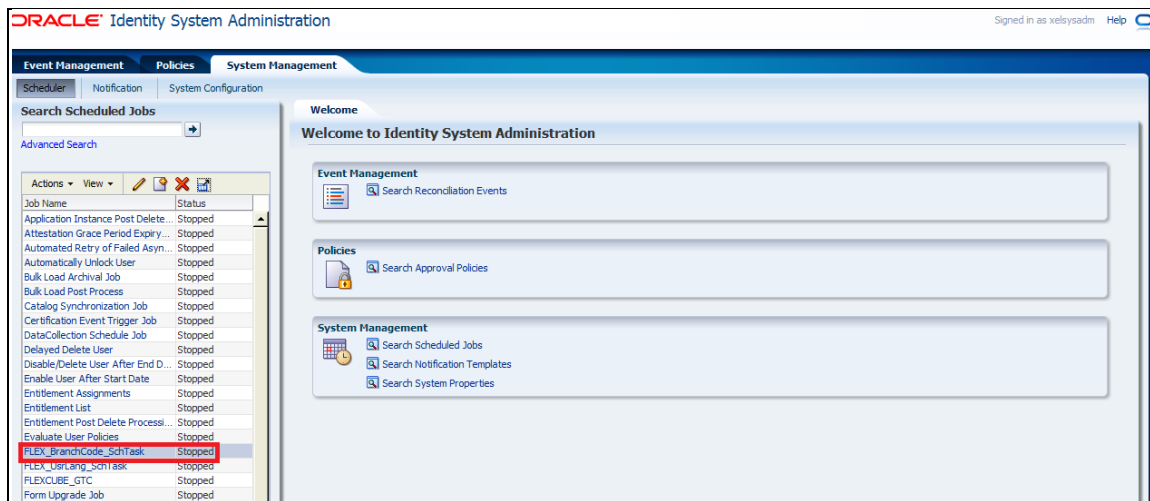
3. Click on Scheduler under System Management.



4. Click on  to Search for Scheduled Job List.



5. Click on FLEX\_BranchCode\_SchTask.

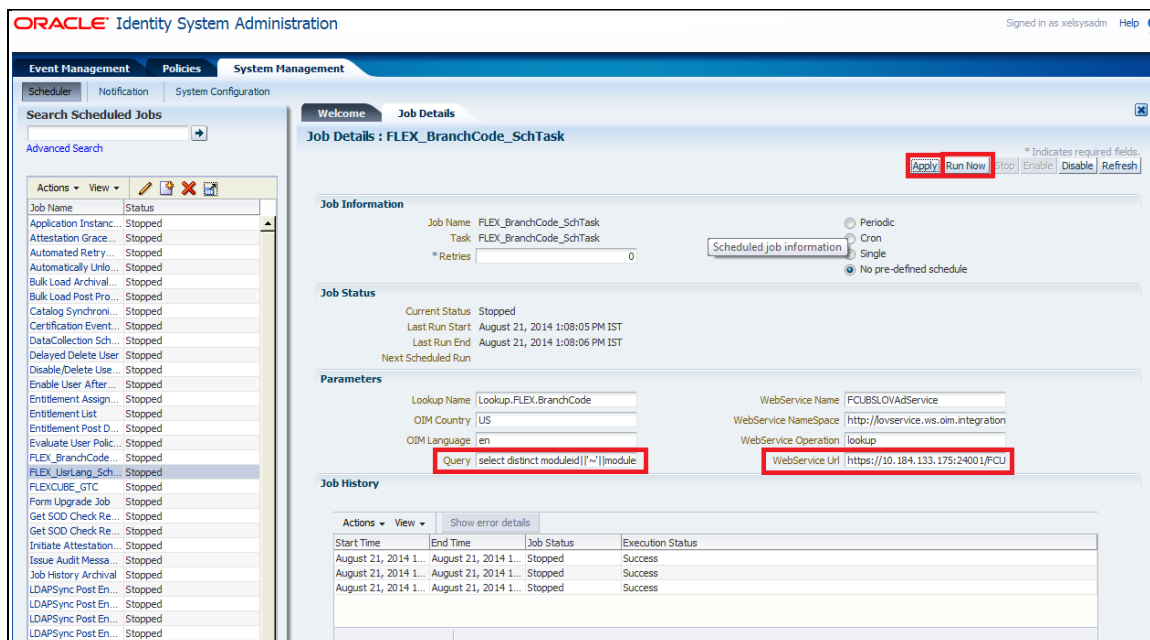


6. On the Edit Schedule Task screen.

- WebService Url : FCUBSLOVAdService deployed in section [5.1.4.2.1](#)

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

- Query :  
`select branch_code||'~'||branch_code from sttm_branch order by branch_code`
- Click on Apply and Click on Run.



## 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.

The screenshot displays the Oracle Identity System Administration interface. On the left, a sidebar lists various system jobs, with 'FLEX\_UsrLang\_Sch' selected. The main panel shows the 'Job Details' for 'FLEX\_UsrLang\_SchTask'. At the top right of the job details, there are buttons for 'Apply', 'Run Now', 'Stop', 'Enable', 'Disable', and 'Refresh'. The 'Job Information' section shows the job name and task. The 'Job Status' section indicates the current status is 'Stopped' and provides run history. The 'Parameters' section contains fields for 'Lookup Name', 'OIM Country', 'OIM Language', 'Query', 'WebService Name', 'WebService Namespace', 'WebService Operation', and 'WebService Url'. The 'WebService Url' field is highlighted with a red box and contains the URL 'https://10.184.133.175:24001/FCU'.

| 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 Use...  | Stopped |
| Disable/Delete Use...  | Stopped |
| Enable User After...   | Stopped |
| Entitlement Assign...  | Stopped |
| Entitlement List       | Stopped |
| Entitlement Post D...  | Stopped |
| Evaluate User Polc...  | Stopped |
| FLEX_BranchCode...     | Stopped |
| FLEX_UsrLang_Sch...    | Stopped |
| FLEXCUBE_GTC           | Stopped |
| Form Upgrade Job       | Stopped |

**Job Details: FLEX\_UsrLang\_SchTask**

Buttons: **Apply** **Run Now** **Stop** **Enable** **Disable** **Refresh**

**Job Information**

Job Name: FLEX\_UsrLang\_SchTask  
Task: FLEX\_UsrLang\_SchTask  
Retries: 0  
Schedule Type: ☐ Periodic ☐ Cron ☐ Single ☒ No pre-defined schedule

**Job Status**

Current Status: Stopped  
Last Run Start: August 21, 2014 1:09:17 PM IST  
Last Run End: August 21, 2014 1:09:17 PM IST  
Next Scheduled Run:

**Parameters**

Lookup Name: Lookup.FLEX.UserLanguage  
OIM Country: US  
OIM Language: en  
Query: select LANG\_CODE||[~]||LANG\_COD  
WebService Name: FCUBSLOVAdService  
WebService Namespace: http://lovservice.ws.oim.integration  
WebService Operation: lookup  
WebService Url: https://10.184.133.175:24001/FCU

**Job History**

## 5.1.6 System Configurations

### 5.1.6.1 Integration Specific Configurations

#### 5.1.6.1.1 ELCM Configurations

On ELCM 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 ELCM 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.




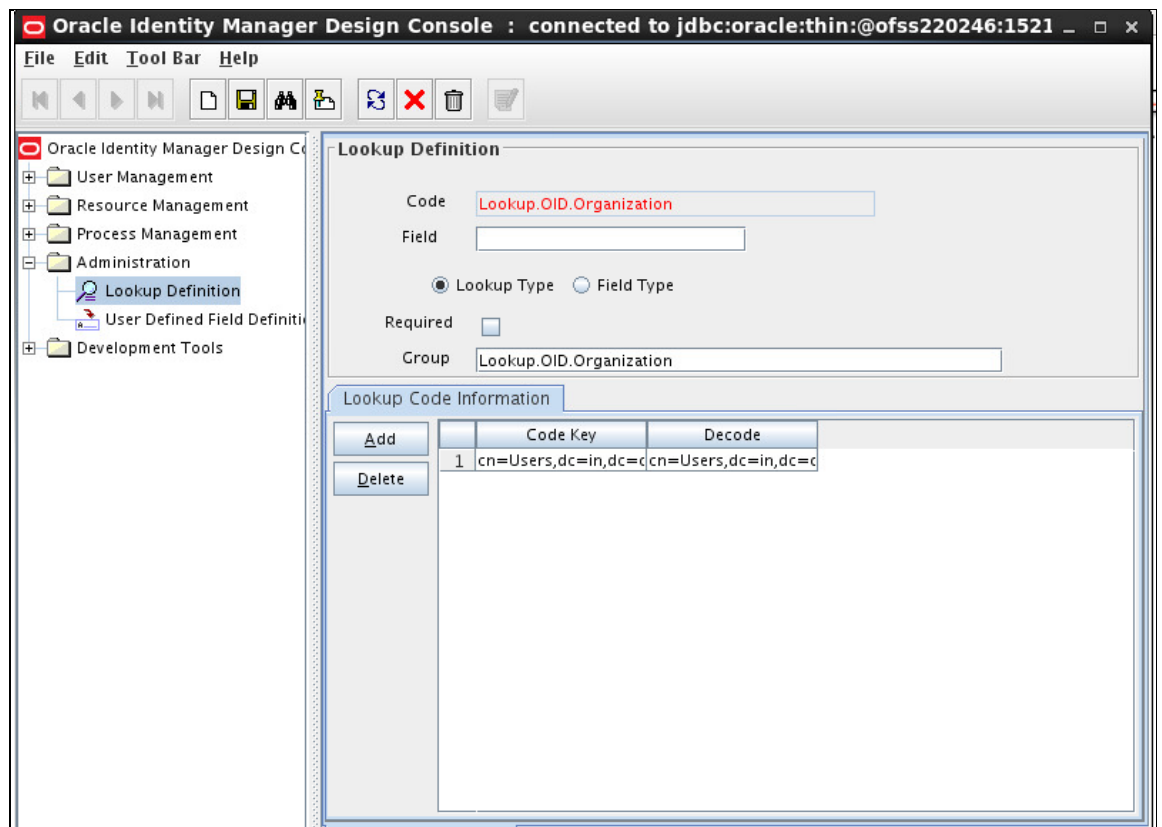


2. Navigate to the Administration>>Lookup Definition menu

3. Enter the below details:


- Code: Lookup.OID.Organization
- Click on **Search**  Icon
- Click on **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 .



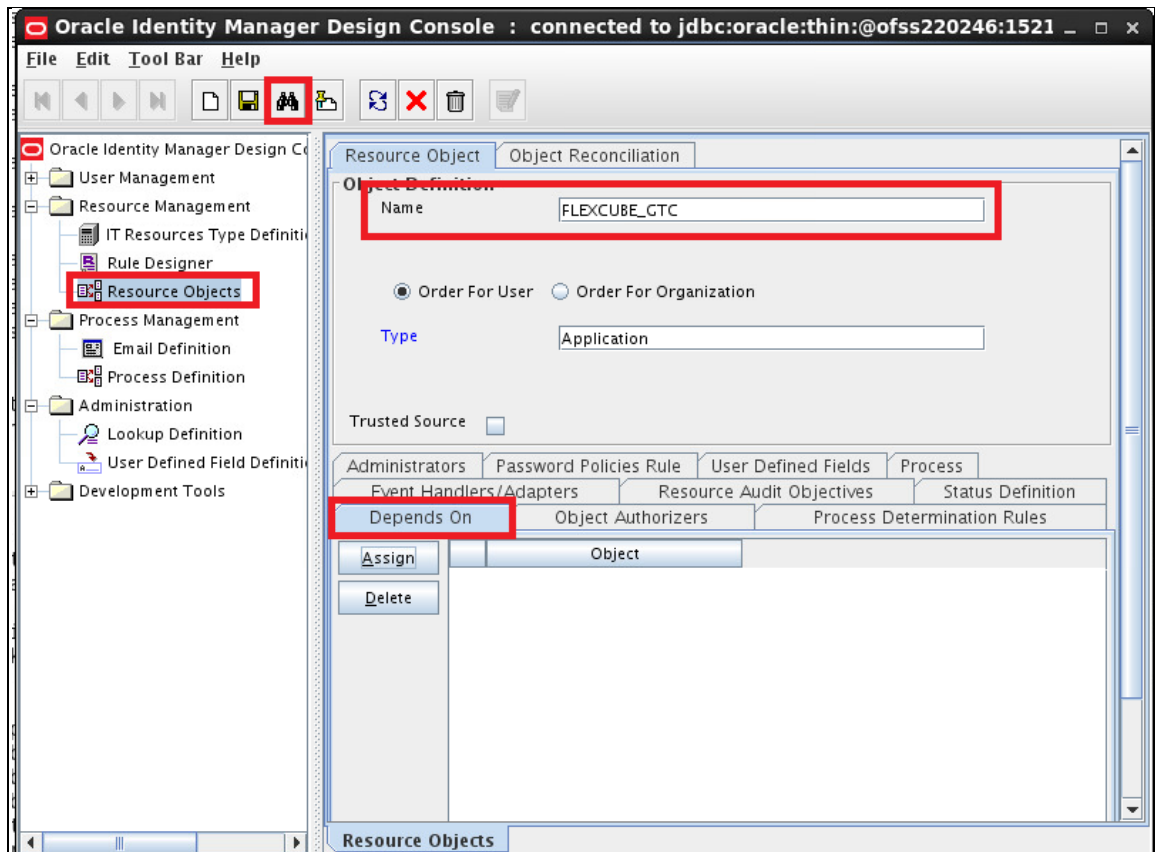
5. Navigate to the Administration>>Lookup Definition menu

6. Enter the below details:

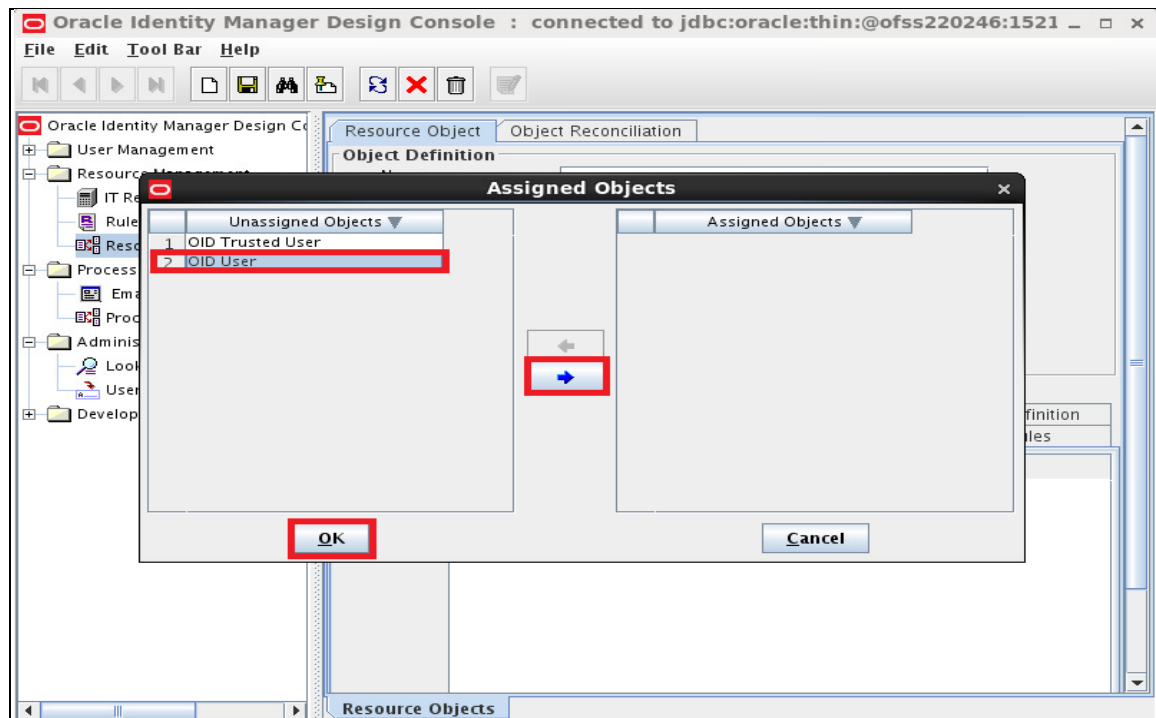
- Code: Lookup.OID.UM.ProvAttrMap
- Click on Search  Icon
- Modify the Decode value for Code Key Name:
- From : \_\_NAME\_\_="uid=\${User\_ID},\${Container\_DN}"
- To : \_\_NAME\_\_="cn=\${User\_ID},\${Container\_DN}"

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.

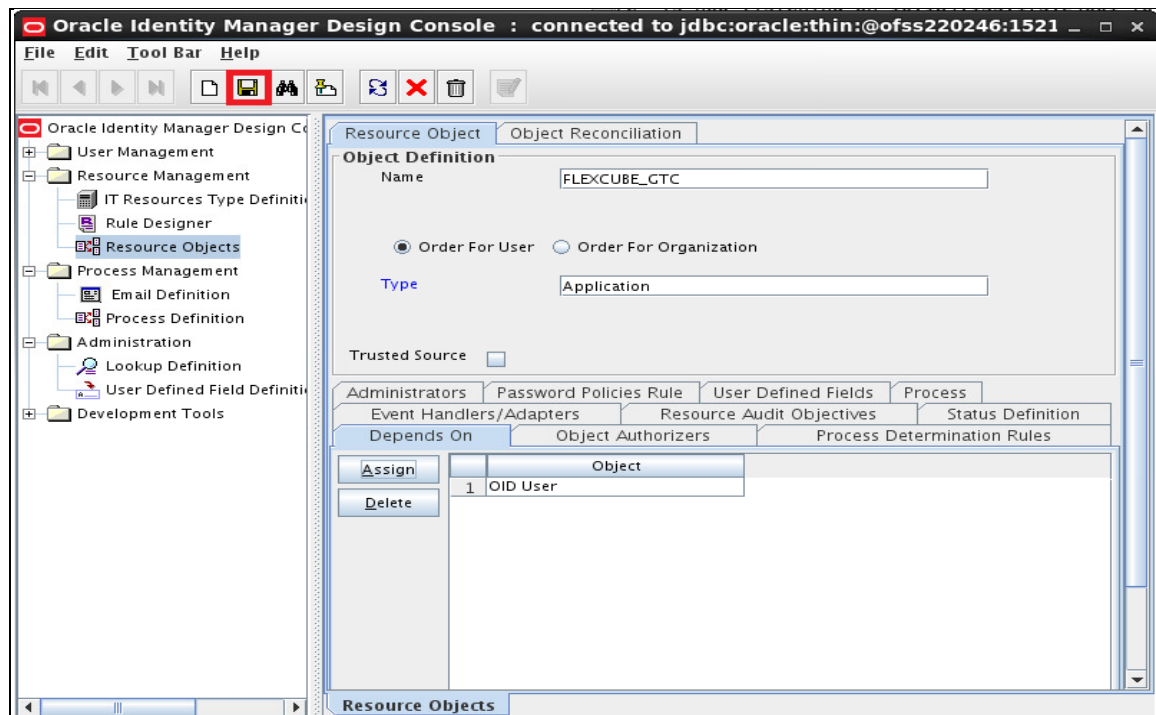


12. Select the OID User from the Unassigned Objects list. Click on the arrow pointed to Assignend objects.
13. Click on OK. This will move OID user resource to Assigned objects.



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.

ORACLE

 Identity System Administration

AccessibilityHelpAbout Oracle

Sign In

Sign in with your account

User ID

xelbysadm

Password

\*\*\*\*\*

Sign In

4. Click on Access Policies under Policies.



5. Click on Create Access Policy.

The screenshot displays the 'Manage Access Policies' page. At the top, the heading 'Manage Access Policies' is followed by the instruction 'Enter your search criteria to search for access policies.' Below this, there are two rows of search criteria, each consisting of a dropdown menu and a text input field. At the bottom of the page, there are three buttons: 'Search Access Policies', 'Create Access Policy', and 'Clear'. The 'Create Access Policy' button is highlighted with a blue rectangular box.

**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

The screenshot shows the 'Create Access Policy' interface, Step 1. At the top, there's a progress bar with five steps, where Step 1 is highlighted. The form title is 'Step 1: Create Access Policy'. Below it, a note says '\* Indicates Required Field'. The form fields are: 'Access Policy Name' with value 'OIDAccessPolicy', 'Access Policy Description' with value 'OIDAccessPolicy', 'Provision' with radio buttons for 'Without Approval' (selected) and 'With Approval', 'Retrofit Access Policy' with a checked checkbox, and 'Priority' with value '1' and a note 'Current Lowest Priority=0'. At the bottom are 'Exit' and 'Continue >>' buttons.

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

- Select OID User
- Click on Add Button

The screenshot shows the 'Create Access Policy' interface, Step 2. The progress bar now highlights Step 2. The form title is 'Step 2: Select Resources'. Below it, a note says '\* Indicates Required Field'. The form includes a 'Filter By' section with a dropdown and a 'Go' button. A table shows 'Results 1-2 of 2' with columns for selection checkboxes and 'Resource Name'. The first row is 'FLEXCUBE\_GTC' and the second row is 'OID User', which has a checkmark in its selection box. To the right of the table are 'Add >>' and '<< Remove' buttons. Below the table are 'Exit', '<< Back', and 'Continue >>' buttons. On the right side, a 'Selected:' box contains the text 'OID User'.

8. Click on Continue.

The screenshot shows a web-based wizard titled "Create Access Policy". At the top, there is a progress bar with five numbered steps: 1, 2, 3, 4, and 5. Step 2 is currently selected and highlighted with a blue circle and a downward arrow. Below the progress bar, the title "Step 2: Select Resources" is displayed. A horizontal line separates the title from the main content area. The main content area contains the text: "The subsequent pages will guide you through providing the data to associate with the following resources you selected to be provisioned by this Access Policy:". Below this text, there is a bulleted list with one item: "• OID User". At the bottom of the wizard, there are four buttons: "Exit", "<< Back", "Skip This Step", and "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)

**Create Access Policy**

1 2 3 4 5

**Step 2: Select Resources**

Provide the following process details for resource **OID User**:

\* Indicates a required field

|                    |  |
|--------------------|--|
| User ID            | <input type="text"/>                       |
| Server             | <input type="text"/> <a href="#">Clear</a> |
| Password           | <input type="text"/>                       |
| First Name         | <input type="text"/>                       |
| Middle Name        | <input type="text"/>                       |
| Last Name          | <input type="text"/>                       |
| Common Name        | <input type="text"/>                       |
| Container DN       | <input type="text"/> <a href="#">Clear</a> |
| Department         | <input type="text"/>                       |
| Location           | <input type="text"/>                       |
| Telephone          | <input type="text"/>                       |
| Email ID           | <input type="text"/>                       |
| Preferred Language | <input type="text"/> <a href="#">Clear</a> |
| Time Zone          | <input type="text"/>                       |
| Title              | <input type="text"/>                       |
| Start Date         | <input type="text"/>                       |
| End Date           | <input type="text"/>                       |
| manager            | <input type="text"/>                       |

10. Click on Continue.

**Create Access Policy**

1 2 3 4 5

**Step 2: Select Revoke Or Disable Flag**

Select if the resources need to be revoked or disabled if the access policy no longer applies.

| Resource Name | Revoke if no longer applies      | Disable if no longer applies |
|---------------|----------------------------------|------------------------------|
| OID User      | <input checked="" type="radio"/> | <input type="radio"/>        |

11. Click on Continue.



Create Access Policy

12345

Step 3: Select Resources

Specify the resources to be denied by this access policy.

\* Indicates Required Field

Filter By

Results 1-2 of 2

First | Previous | Next | Last

| <input type="checkbox"/> | Resource Name |
|--------------------------|---------------|
| <input type="checkbox"/> | FLEXCUBE_GTC  |
| <input type="checkbox"/> | OID User      |

First | Previous | Next | Last

Add >>

<< Remove

Selected:

Exit

<< Back

Continue >>

12. Select ALL USERS and Click on Continue.

Create Access Policy

12345

Step 4: Select Roles

Specify roles for this access policy.

\* Indicates Required Field

Filter By

Results 1-5 of 5

First | Previous | Next | Last

| <input type="checkbox"/> | Roles Name            | Display Name          |
|--------------------------|-----------------------|-----------------------|
| <input type="checkbox"/> | OPERATORS             | OPERATORS             |
| <input type="checkbox"/> | SELF OPERATORS        | SELF OPERATORS        |
| <input type="checkbox"/> | SYSTEM ADMINISTRATORS | SYSTEM ADMINISTRATORS |
| <input type="checkbox"/> | ALL USERS             | ALL USERS             |
| <input type="checkbox"/> | Administrators        | Administrators        |

First | Previous | Next | Last

Add >>

<< Remove

Selected:

ALL USERS

Exit

<< Back

Continue >>

13. Click on Create Access Policy.

**Create Access Policy**

1 2 3 4 5

**Step 5: Verify Access Policy Information**

Access Policy Information Provided [Change](#)

|                                  |                 |
|----------------------------------|-----------------|
| <b>Access Policy Name</b>        | OIDAccessPolicy |
| <b>Access Policy Description</b> | OIDAccessPolicy |
| <b>With Approval</b>             | No              |
| <b>Retrofit Access Policy</b>    | Yes             |
| <b>Priority</b>                  | 1               |

Resources to be provisioned by this access policy [Change](#)

| Resource Name | Revoke if no longer applies | Disable if no longer applies | Process Forms                 |
|---------------|-----------------------------|------------------------------|-------------------------------|
| OID User      | ✓                           | ✗                            | OID User <a href="#">Edit</a> |

Resources to be denied by this access policy [Change](#)

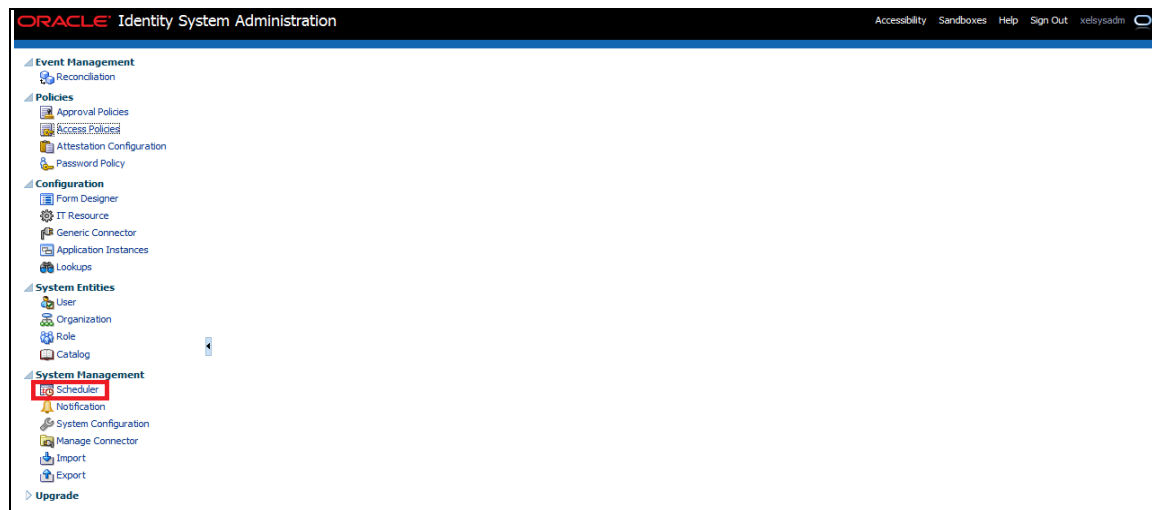
**You have not selected any resources to be denied by this access policy.**

Roles for this access policy [Change](#)

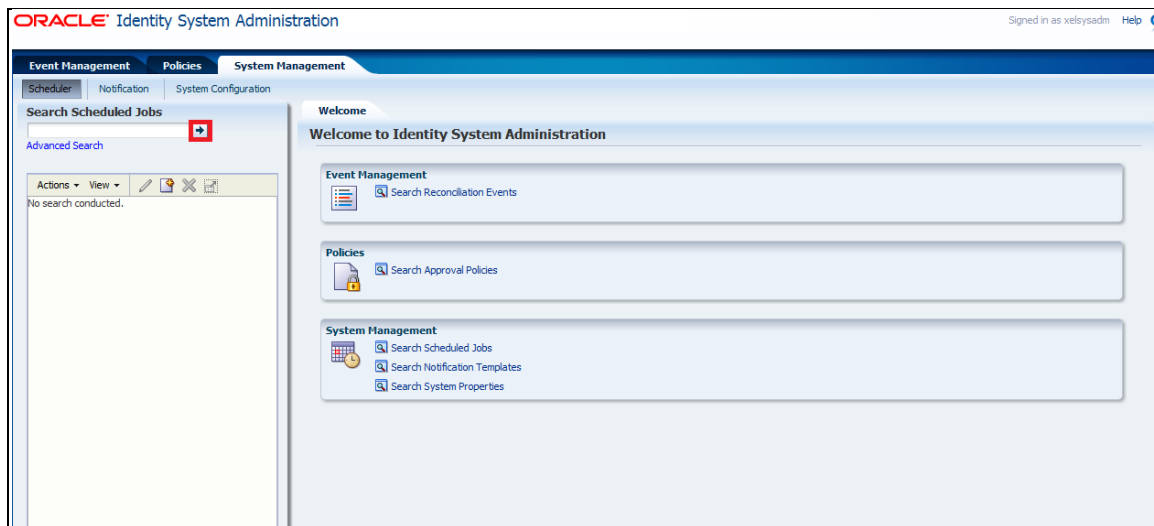
| Roles Name |
|------------|
| ALL USERS  |

[Exit](#) [<< Back](#) [Create Access Policy](#)

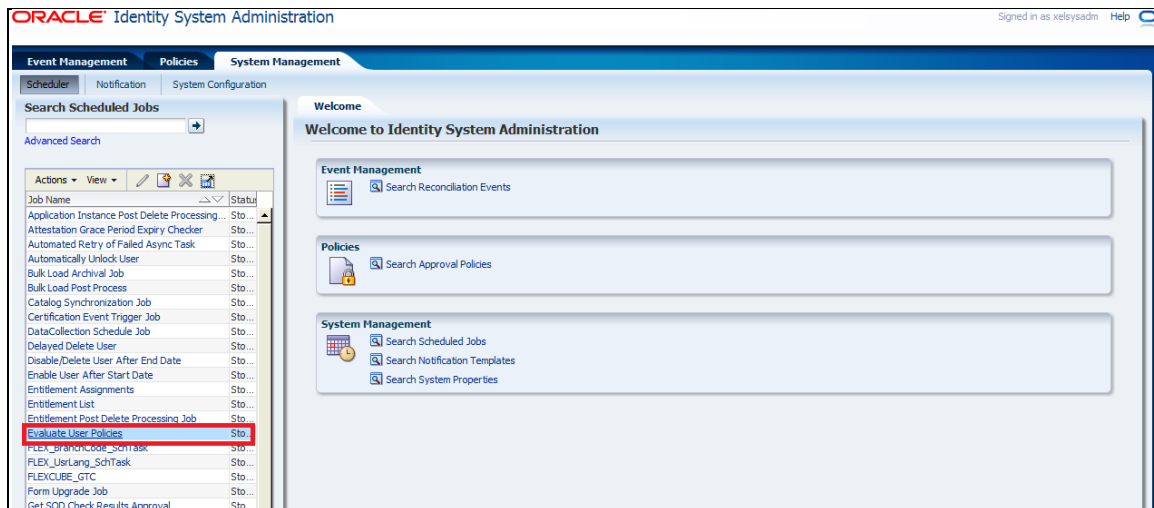
14. Click on Scheduler under System Management.



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.

5-70

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## 6. Solution / Usage Guidelines

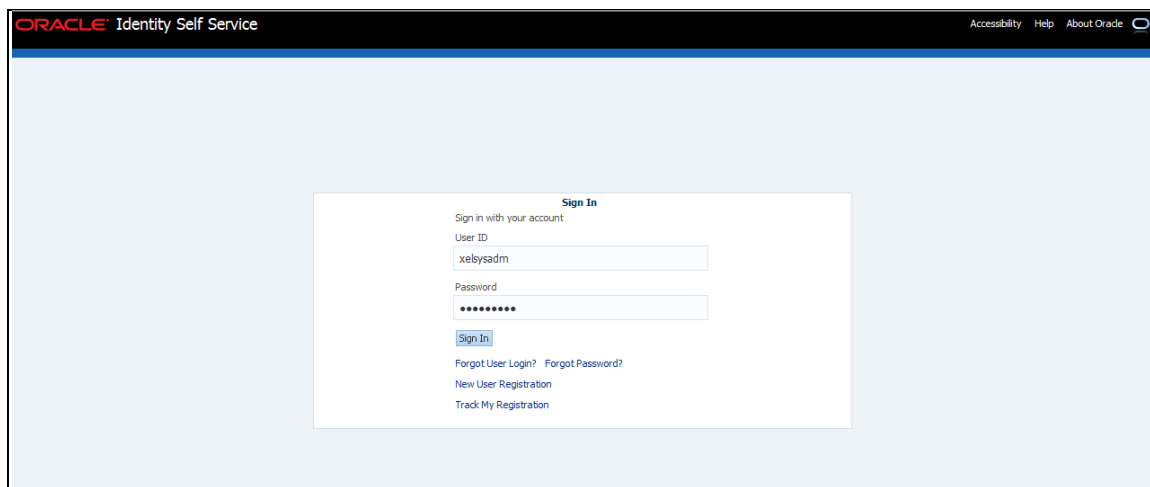
### 6.1 Working with OIM

#### 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**.

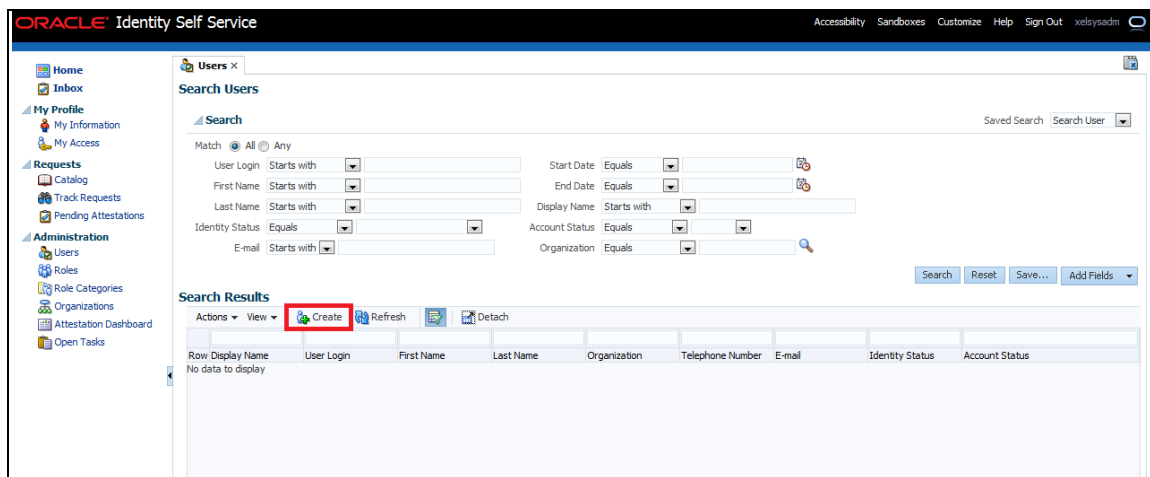


The screenshot shows the Oracle Identity Self Service web interface. At the top, there is a header bar with the Oracle logo, the text "Identity Self Service", and links for "Accessibility", "Help", and "About Oracle". The main content area is light blue and contains a white "Sign In" box. Inside the box, the text "Sign in with your account" is followed by two input fields: "User ID" with the value "xelsysadm" and "Password" with masked characters "\*\*\*\*\*". Below the password field is a "Sign In" button. At the bottom of the box, there are links for "Forgot User Login?", "Forgot Password?", "New User Registration", and "Track My Registration".

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.

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

Create User

Submit Cancel Save as Draft

Justification and Effective Date

Justification

Effective Date

Basic Information

First Name Nandhakumar Middle Name Manager \* Organization Requests \* User Type Full-Time Employee Display Name Nandhakumar Vemban

\* Last Name Vemban E-mail nandhakumar.vemban@oracle.com

Account Settings

User Login NVEMBAN Password Confirm Password

Account Effective Dates

Start Date 8/25/2014 End Date

Provisioning Dates

Provisioning Date Deprovisioning Date

Contact Information

Telephone Number Home Phone Fax Mobile Pager Home Postal Address Postal Address Postal Code PO Box State Street Country

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

Users X User Details : Nandhakuma...

Nandhakumar Vemban

Modify User Enable User Disable User Delete User Lock Account Unlock Account Reset Password

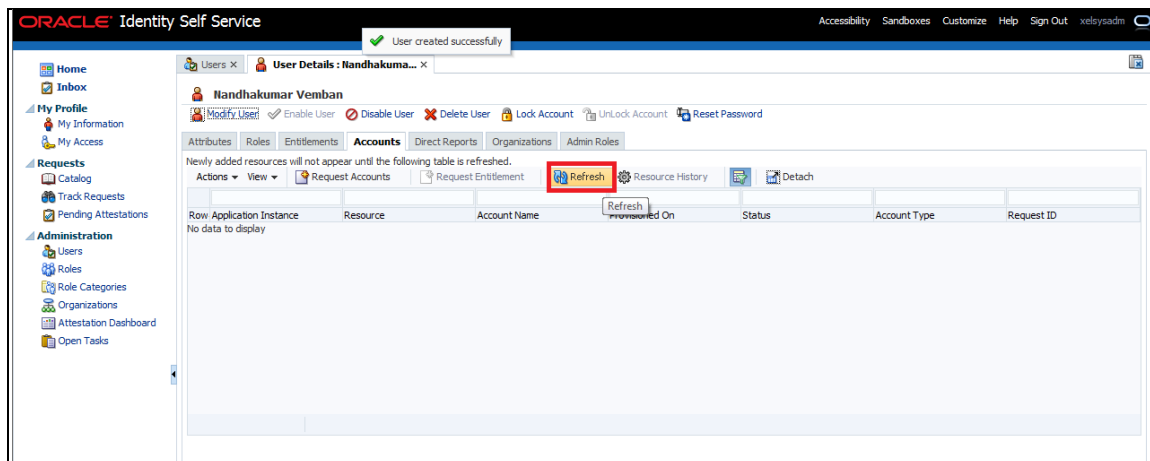
Attributes Roles Entitlements Accounts Direct Reports Organizations Admin Roles

Newly added resources will not appear until the following table is refreshed.

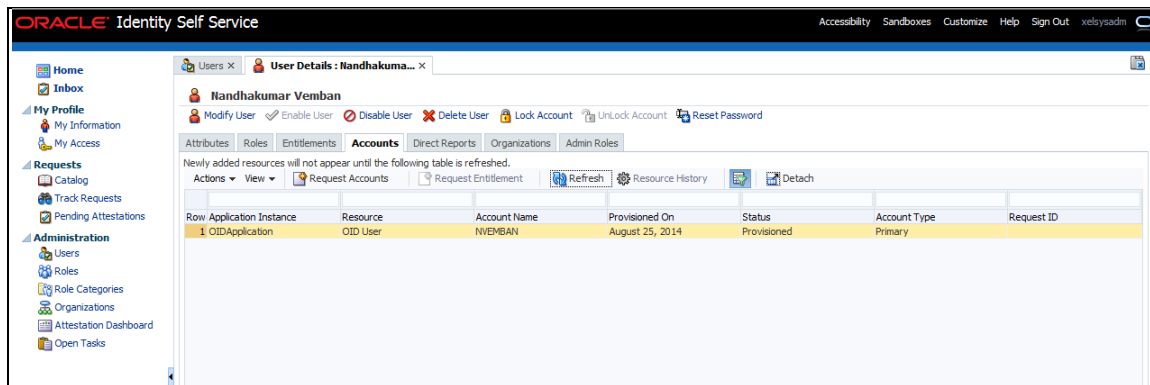
Actions View Request Accounts Request Entitlement Refresh Resource History Detach

| Row                | Application Instance | Resource | Account Name | Provisioned On | Status | Account Type | Request ID |
|--------------------|----------------------|----------|--------------|----------------|--------|--------------|------------|
| No data to display |                      |          |              |                |        |              |            |

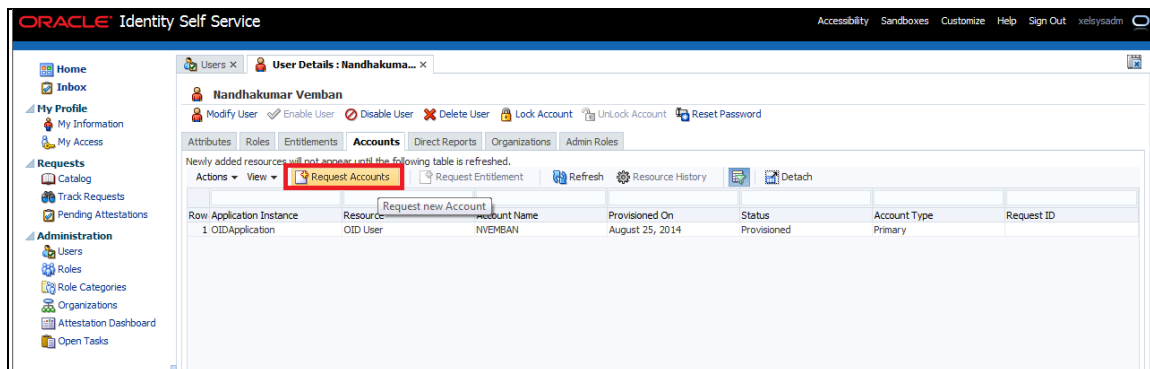
Wait for Time, which has been set to evaluate the user access policy in [5.1.6.2.2.15](#) and Click on Refresh.




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

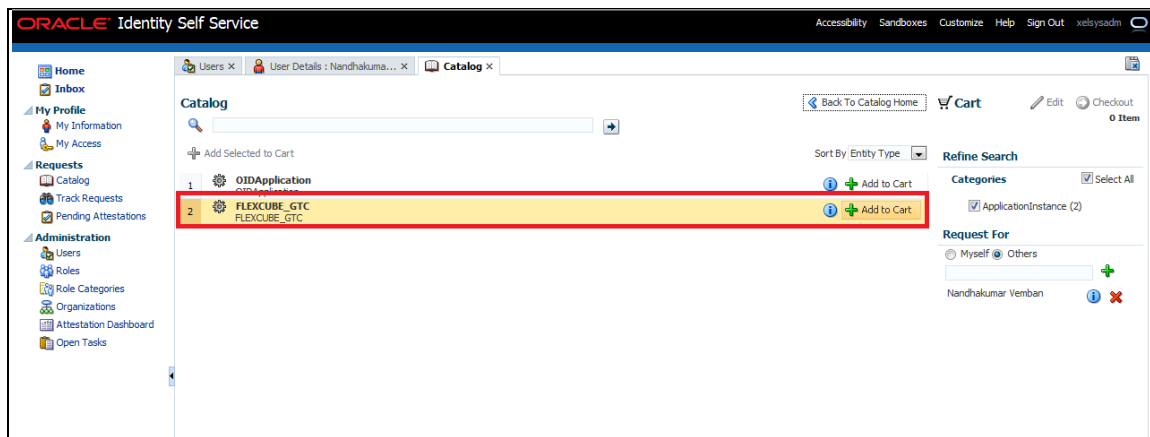


7. Click on Request Accounts.

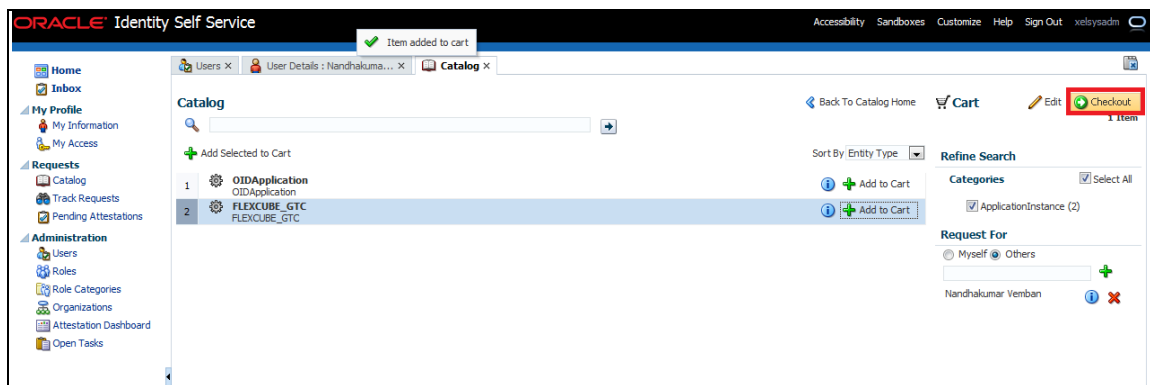




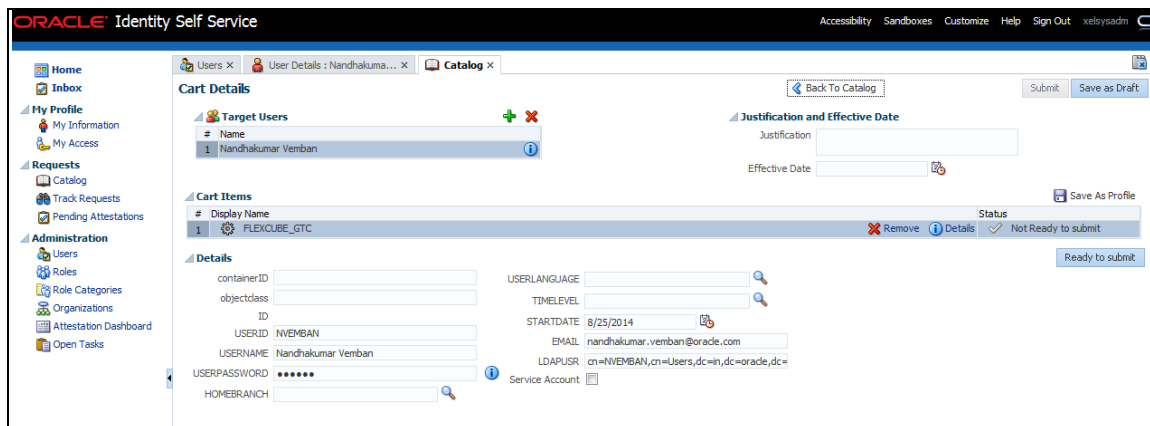
8. Click on  Add to Cart against FLEXCUBE\_GTC.



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.

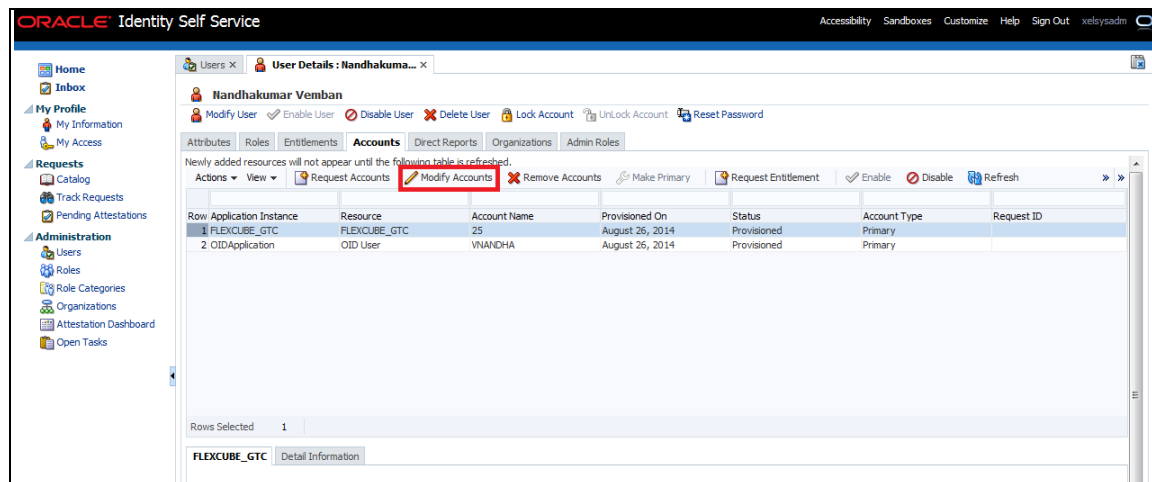
12. Click on Refresh under Accounts TAB.

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

| Row | Application Instance | Resource     | Account Name | Provisioned On  | Status      | Account Type | Request ID |
|-----|----------------------|--------------|--------------|-----------------|-------------|--------------|------------|
| 1   | FLEXCUBE_GTC         | FLEXCUBE_GTC | 12           | August 25, 2014 | Provisioned | Primary      |            |
| 2   | OIDApplication       | OID User     | NVEMBAN      | August 25, 2014 | Provisioned | Primary      |            |

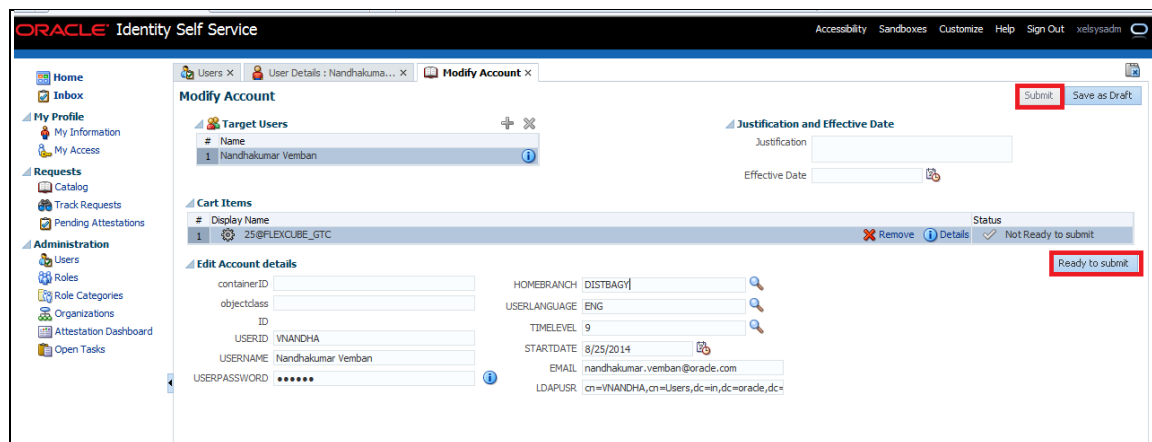
## 6.1.2 Modifying a user in ELCM through OIM

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.



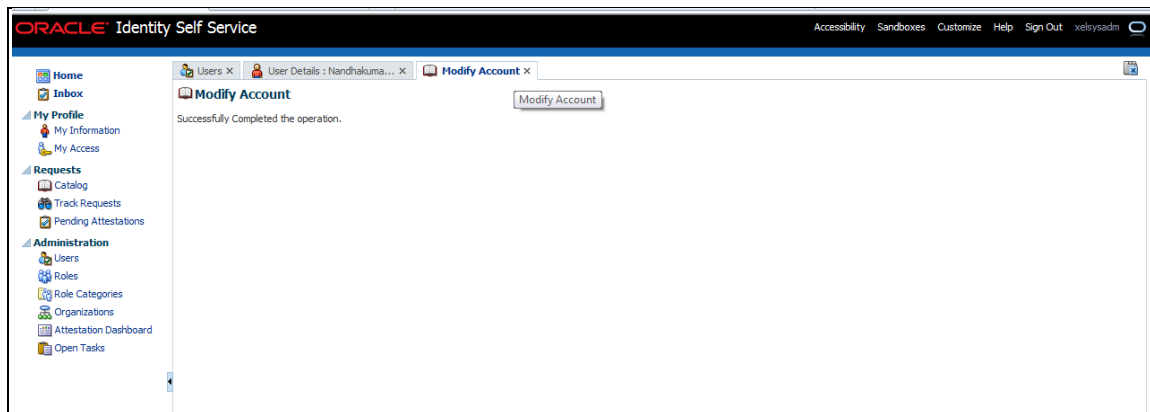
The following screen is displayed.

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.

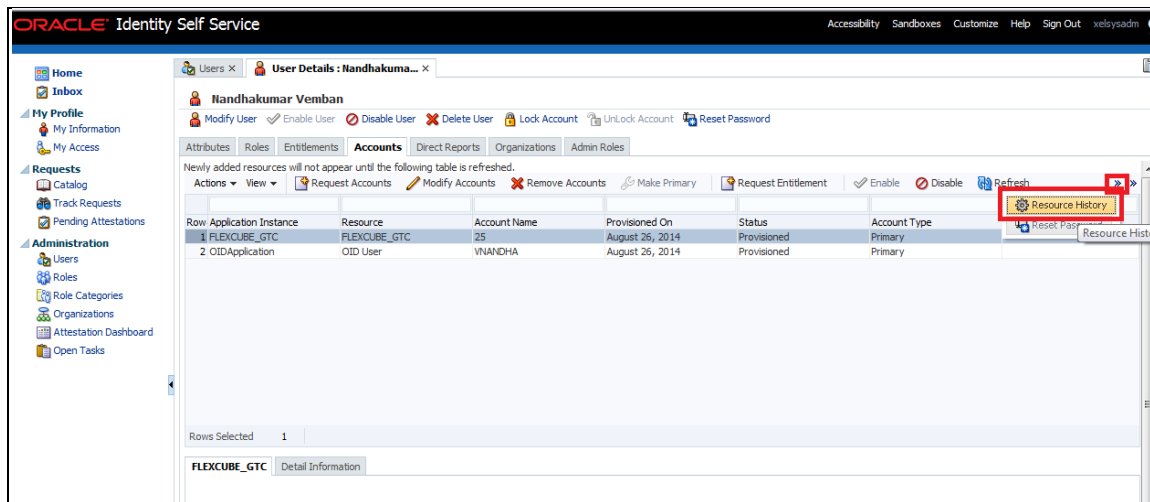


The following screen is displayed.

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.).

**User Detail >> Resource Profile >> Resource Provisioning Details**  
The following are the provisioning tasks for the resource. You can also enable, disable, or revoke this resource from the user.

**FLEXCUBE\_GTC** provisioning details for **Nandhakumar Vemban[VNANDHA]**

Results 1-8 of 8 First | Previous | Next | Last

| Task Name          | Task Status | Date Assigned   | Assigned To                      | Retry                    |
|--------------------|-------------|-----------------|----------------------------------|--------------------------|
| System Validation  | Completed   | August 26, 2014 | System Administrator [XELSYSADM] | <input type="checkbox"/> |
| HOMEBRANCH Updated | Completed   | August 26, 2014 | System Administrator [XELSYSADM] | <input type="checkbox"/> |
| Create User        | Completed   | August 26, 2014 | System Administrator [XELSYSADM] | <input type="checkbox"/> |
| HOMEBRANCH Updated | Completed   | August 26, 2014 | System Administrator [XELSYSADM] | <input type="checkbox"/> |

### 6.1.3 Disable/Remove Accounts in ELCM 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

**ORACLE Identity Self Service**

Users: X | User Details: Nandhakuma... X

**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 | Modify Accounts | **Remove Accounts** | Make Primary | Request Entitlement | Enable | **Disable** | Refresh

| Row | Application Instance | Resource     | Account Name | Provisioned On  | Status      | Account Type | Request ID |
|-----|----------------------|--------------|--------------|-----------------|-------------|--------------|------------|
| 1   | FLEXCUBE_GTC         | FLEXCUBE_GTC | 25           | August 26, 2014 | Provisioned | Primary      |            |
| 2   | OIDApplication       | OID User     | VNANDHA      | August 26, 2014 | Provisioned | Primary      |            |

Rows Selected: 1

**FLEXCUBE\_GTC** | Detail Information

Name: FLEXCUBE\_GTC  
Display Name: FLEXCUBE\_GTC

Disable Confirmation Screen will get displayed

10. Click on Submit.

The screenshot shows the 'Disable Accounts' page in the Oracle Identity Self Service interface. The left sidebar contains navigation links for Home, Inbox, My Profile, My Information, My Access, Requests, Catalog, Track Requests, Pending Attestations, and Administration. The main content area has tabs for Users, User Details, and Disable Accounts. The 'Disable Accounts' tab is active, showing a 'Target Users' section with a table containing one user: Nandhakumar Vemban. Below this is a 'Cart Items' section with a table containing one item: 25@FLEXCUBE\_GTC. To the right of the 'Cart Items' table is a 'Justification and Effective Date' section with input fields for Justification and Effective Date. At the bottom right of the 'Cart Items' table, there is a 'Status' column with a green checkmark and the text 'Ready to submit'. A red box highlights the 'Submit' button in the top right corner of the 'Disable Accounts' tab.

11. Go to Accounts Tab and Click on Refresh.

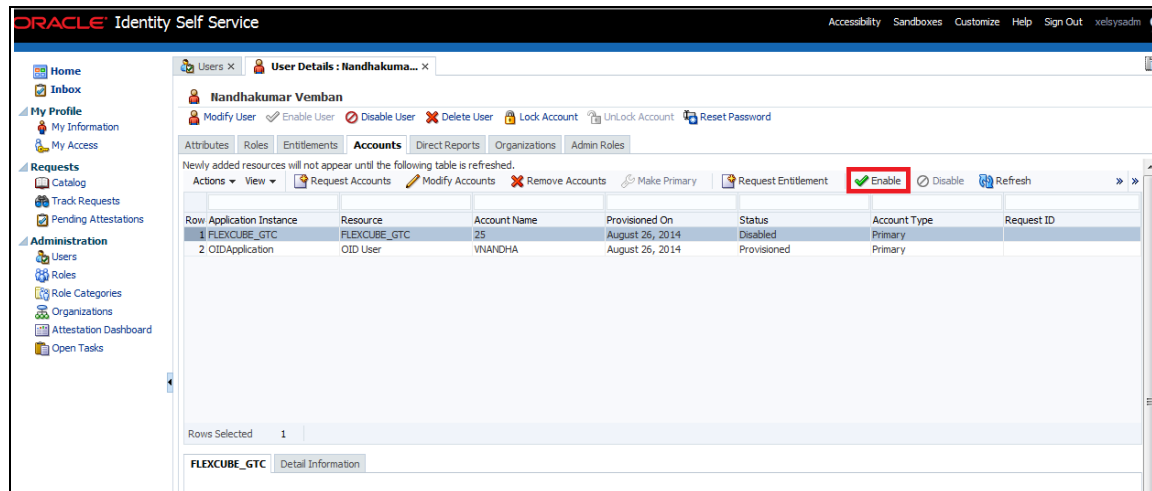
12. On successful processing, it will display the FLEXCUBE\_GTC status as Disabled.

The screenshot shows the 'User Details' page for Nandhakumar Vemban. The left sidebar is the same as in the previous screenshot. The main content area has tabs for Attributes, Roles, Entitlements, Accounts, Direct Reports, Organizations, and Admin Roles. The 'Accounts' tab is active, showing a table with columns: Row, Application Instance, Resource, Account Name, Provisioned On, status, Account Type, and Request ID. The table contains two rows. The first row has '1' in the Row column, 'FLEXCUBE\_GTC' in the Application Instance column, 'FLEXCUBE\_GTC' in the Resource column, '25' in the Account Name column, 'August 26, 2014' in the Provisioned On column, 'disabled' in the status column, 'Primary' in the Account Type column, and an empty Request ID column. The second row has '2' in the Row column, 'OIDApplication' in the Application Instance column, 'OID User' in the Resource column, 'VNANDHA' in the Account Name column, 'August 26, 2014' in the Provisioned On column, 'Provisioned' in the status column, 'Primary' in the Account Type column, and an empty Request ID column. A red box highlights the 'disabled' status in the first row.

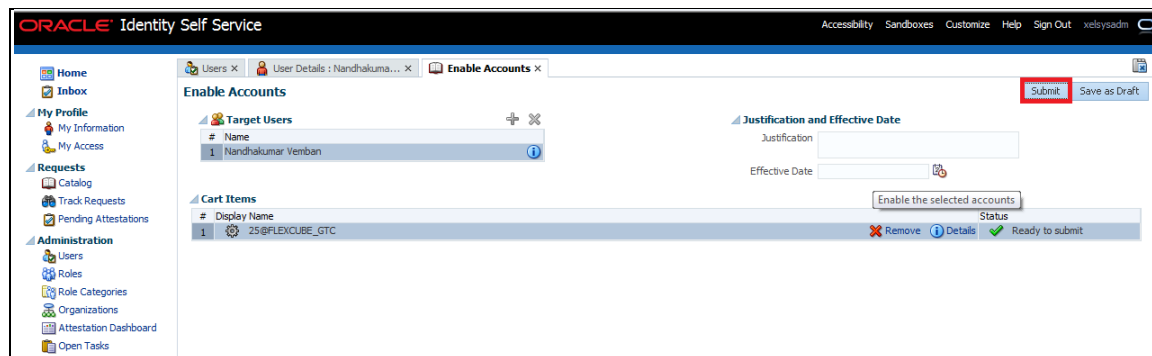
| Row | Application Instance | Resource     | Account Name | Provisioned On  | status      | Account Type | Request ID |
|-----|----------------------|--------------|--------------|-----------------|-------------|--------------|------------|
| 1   | FLEXCUBE_GTC         | FLEXCUBE_GTC | 25           | August 26, 2014 | disabled    | Primary      |            |
| 2   | OIDApplication       | OID User     | VNANDHA      | August 26, 2014 | Provisioned | Primary      |            |

## 6.1.4 Enabling a Disabled user in ELCM through OIM

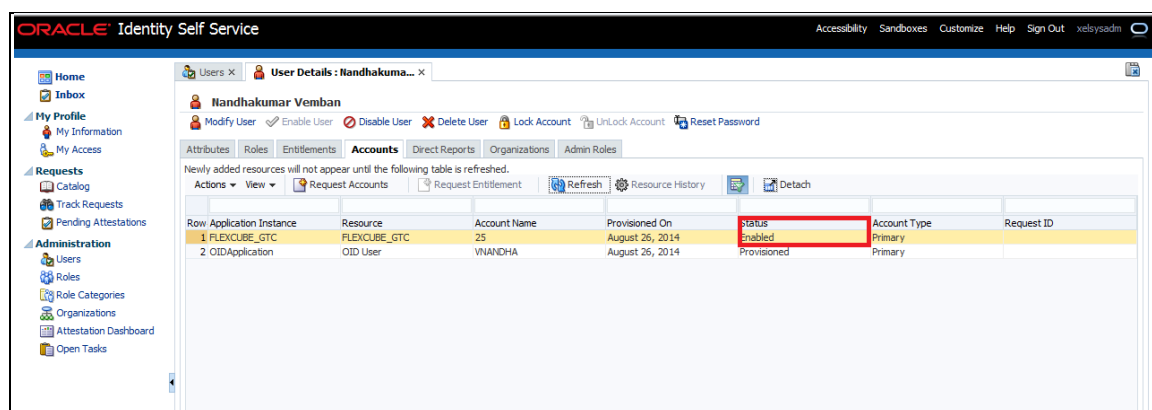
1. Accounts>>Select FLEXCUBE\_GTC >>Click on Enable



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



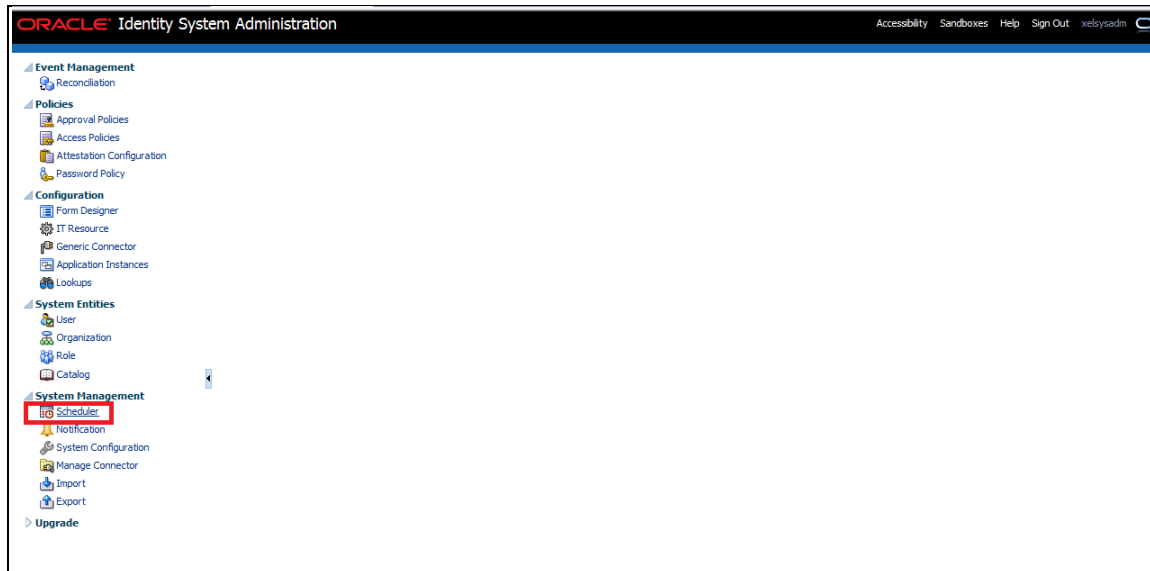
3. Go to Accounts TAB and Click on Refresh.
4. On successful processing, it will display the FLEXCUBE\_GTC status as Enabled.



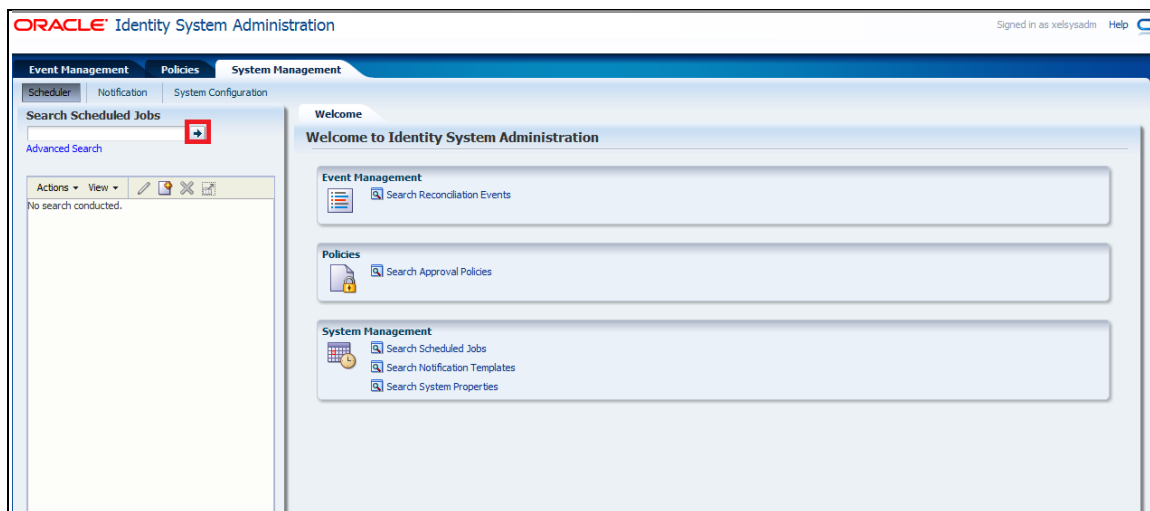
## 6.1.5 Running Reconciliation in OIM

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 Use...  | 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_UrlLang_Sch...    | Stopped |
| <b>FLEXCUBE_GTC</b>    | Stopped |
| Form Upgrade Job       | Stopped |
| Get SOD Check Re...    | Stopped |

Job Details: FLEXCUBE\_GTC

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  
 ITRResource: 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_UrlLang_Sch...     | Stopped |
| <b>FLEXCUBE_GTC</b>     | 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 |

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  
 ITRResource: 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          |

- 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.

Oracle Identity System Administration

Event Management Policies System Management

Reconciliation Search Reconciliation Events

Advanced Search

Actions View

| Event ID | Profile Name | Key Fields |
|----------|--------------|------------|
| 1        | FLEXCUBE_GTC | ANDY12     |

Event Details: ID 1

Refresh

Event

Event ID: 1  
Current Status: Update Succeeded  
Entity: Account  
Type: Changelog  
Key Fields: ANDY12  
Action Date: Action Date not specified

Date and Time: August 22, 2014 12:30:10 PM IST  
Job ID: 1671  
Resource Name: FLEXCUBE\_GTC  
Profile Name: FLEXCUBE\_GTC  
Modifier ID: Internal User  
Retry Count: 5

Linked To

Linked User: ANDY12 - Andy Rajagopalan  
Linked Account ID: 8  
Account Description: 8  
Linked By: Rule Based Linking

Notes

Reconciliation Data

Matched Accounts Matched Users History

View

| Attribute Name | Attribute Value        | OIM Mapped Field |
|----------------|------------------------|------------------|
| IT Resource2   | 4                      | IT Resource2     |
| USERLANGUAGE   | ENG                    | USERLANGUAGE     |
| USERNAME       | Anand R                | USERNAME         |
| TIMELEVEL      | 9                      | TIMELEVEL        |
| HOMEBRANCH     | FMG                    | HOMEBRANCH       |
| STARTDATE      | April 8, 2014 12:00... | STARTDATE        |
| USERID         | ANDY12                 | USERID           |

In the Event details screen

- 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.
- If the Liked User is "Not Linked to any user" then it means the reconciliation process was not able to find a matching user.

Oracle Identity System Administration

Event Management Policies System Management

Reconciliation Search Reconciliation Events

Advanced Search

Actions View

| Event ID | Profile Name | Key Fields |
|----------|--------------|------------|
| 21       | FLEXCUBE_GTC | VKUMAR     |
| 1        | FLEXCUBE_GTC | ANDY12     |

Event Details: ID 21

Reevaluate Event Close Event Ad Hoc Link Refresh

Event

Event ID: 21  
Current Status: No User Match Found  
Entity: Account  
Type: Changelog  
Key Fields: VKUMAR  
Action Date: Action Date not specified

Date and Time: August 26, 2014 3:02:46 PM IST  
Job ID: 4448  
Resource Name: FLEXCUBE\_GTC  
Profile Name: FLEXCUBE\_GTC  
Modifier ID: Internal User  
Retry Count: 5

Linked To

Linked User: Not linked to any user  
Linked Account ID: 8  
Account Description: 8  
Linked By:

Notes

Reconciliation Data

Matched Accounts Matched Users History

View

| Attribute Name | Attribute Value        | OIM Mapped Field |
|----------------|------------------------|------------------|
| IT Resource2   | 4                      | IT Resource2     |
| USERLANGUAGE   | ENG                    | USERLANGUAGE     |
| USERNAME       | Anand R                | USERNAME         |
| TIMELEVEL      | 9                      | TIMELEVEL        |
| HOMEBRANCH     | FMG                    | HOMEBRANCH       |
| STARTDATE      | April 8, 2014 12:00... | STARTDATE        |
| USERID         | VKUMAR                 | USERID           |

Lists all event data

---

## 7. Reference

| Document Number | Title   |
|-----------------|---|
| 1               | <a href="#">Oracle Identity Manager Document.</a> |
| 2               | <a href="#">SPML specification Document.</a>      |

---

## 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.

The screenshot shows the Oracle WebLogic Server 11g Administration Console login page. The background is a light blue gradient with a large, faint '11g' watermark. In the top left corner, the text reads 'ORACLE WebLogic Server® 11g Administration Console'. On the right side, there is a 'Welcome' login box. Inside this box, it says 'Log in to work with the WebLogic Server domain'. Below this, there are two input fields: 'Username:' with the value 'weblogic' and 'Password:' with a masked password '\*\*\*\*\*'. A red rectangular box highlights the 'Login' button to the right of the password field. At the bottom left of the page, there is small text: 'WebLogic Server Version: 10.3.5.0. Copyright © 1996-2010. Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.'

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

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the 'Domain Structure' tree is expanded to 'Services', and 'Data Sources' is highlighted with a red box. The main content area displays the 'Summary of JDBC Data Sources' page, which includes a table of data sources and a 'Lock & Edit' button in the Change Center.

| Name                 | Type    | JNDI Name                 | Targets                        |
|----------------------|---------|---------------------------|--------------------------------|
| EDNDataSource        | Generic | jdbc/EDNDataSource        | soa_server1                    |
| EDNLocalTxDataSource | Generic | jdbc/EDNLocalTxDataSource | soa_server1                    |
| fcjDevDS             | Generic | jdbc/fcjDevDS             | Applications                   |
| fcjDevDS11           | Generic | jdbc/fcjDevDS11           | Applications                   |
| fcjDevDS120          | Generic | jdbc/fcjDevDS120          | Applications                   |
| FCUBS                | Generic | jdbc/fcjDevDS             | AdminServer, Applications      |
| FCUBS120_XA          | Generic | jdbc/fcjDevDS120_XA       | Applications                   |
| FCUBSScheduler       | Generic | jdbc/fcjSchedulerDS       | Applications                   |
| jdbc/registryDS      | Generic | jdbc/registryDS           | wls_ods1, wls_of1, osr_server1 |
| mds-om               | Generic | jdbc/mds/MDS_REPOS        | oim_server1                    |

5. Click on Lock & Edit as shown below.

The screenshot shows the Oracle WebLogic Server Administration Console. In the 'Change Center' on the left, the 'Lock & Edit' button is highlighted with a red box. The main content area displays the 'Summary of JDBC Data Sources' page, which includes a table of data sources and a 'Lock & Edit' button in the Change Center.

| Name                 | Type    | JNDI Name                 | Targets                        |
|----------------------|---------|---------------------------|--------------------------------|
| EDNDataSource        | Generic | jdbc/EDNDataSource        | soa_server1                    |
| EDNLocalTxDataSource | Generic | jdbc/EDNLocalTxDataSource | soa_server1                    |
| fcjDevDS             | Generic | jdbc/fcjDevDS             | Applications                   |
| fcjDevDS11           | Generic | jdbc/fcjDevDS11           | Applications                   |
| fcjDevDS120          | Generic | jdbc/fcjDevDS120          | Applications                   |
| FCUBS                | Generic | jdbc/fcjDevDS             | AdminServer, Applications      |
| FCUBS120_XA          | Generic | jdbc/fcjDevDS120_XA       | Applications                   |
| FCUBSScheduler       | Generic | jdbc/fcjSchedulerDS       | Applications                   |
| jdbc/registryDS      | Generic | jdbc/registryDS           | wls_ods1, wls_of1, osr_server1 |
| mds-om               | Generic | jdbc/mds/MDS_REPOS        | oim_server1                    |

## 6. Expand New and click on Generic Data Source.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Summary of JDBC Data Sources' and includes a 'Configuration' tab. Below the tab, there is a description of JDBC data sources and a table titled 'Data Sources (Filtered - More Columns Exist)'. The table has columns for 'Name', 'Type', 'JNDI Name', and 'Targets'. The 'Generic Data Source' link in the 'Name' column is highlighted with a red box. The table lists various data sources, including 'Generic Data Source', 'GridLink Data Source', 'Multi Data Source', 'fcjdevDS', 'fcjdevDS11', 'fcjdevDS120', 'FCUBS', 'FCUBS120\_XA', 'FCUBSScheduler', 'jdbc/registryDS', and 'mds-oim'.

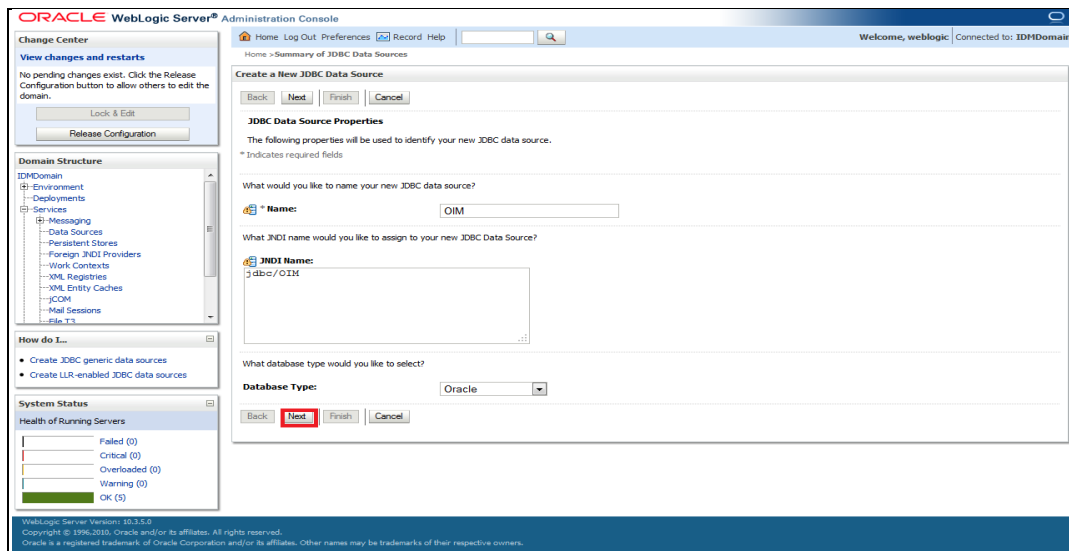
| Name                 | Type    | JNDI Name                 | Targets                         |
|----------------------|---------|---------------------------|---------------------------------|
| Generic Data Source  | Generic | jdbc/EDNDataSource        | soa_server1                     |
| GridLink Data Source | Generic | jdbc/EDNLocalTxDataSource | soa_server1                     |
| Multi Data Source    | Generic | jdbc/EDNLocalTxDataSource | soa_server1                     |
| fcjdevDS             | Generic | jdbc/fcjdevDS             | Applications                    |
| fcjdevDS11           | Generic | jdbc/fcjdevDS11           | Applications                    |
| fcjdevDS120          | Generic | jdbc/fcjdevDS120          | Applications                    |
| FCUBS                | Generic | jdbc/fcjdevDS             | AdminServer, Applications       |
| FCUBS120_XA          | Generic | jdbc/fcjdevDS120_XA       | Applications                    |
| FCUBSScheduler       | Generic | jdbc/fcjdevDS120_XA       | Applications                    |
| jdbc/registryDS      | Generic | jdbc/registryDS           | wls_ods1, wls_off1, osr_server1 |
| mds-oim              | Generic | jdbc/mds/MDS_REPOS        | oim_server1                     |

The following screen will get displayed.

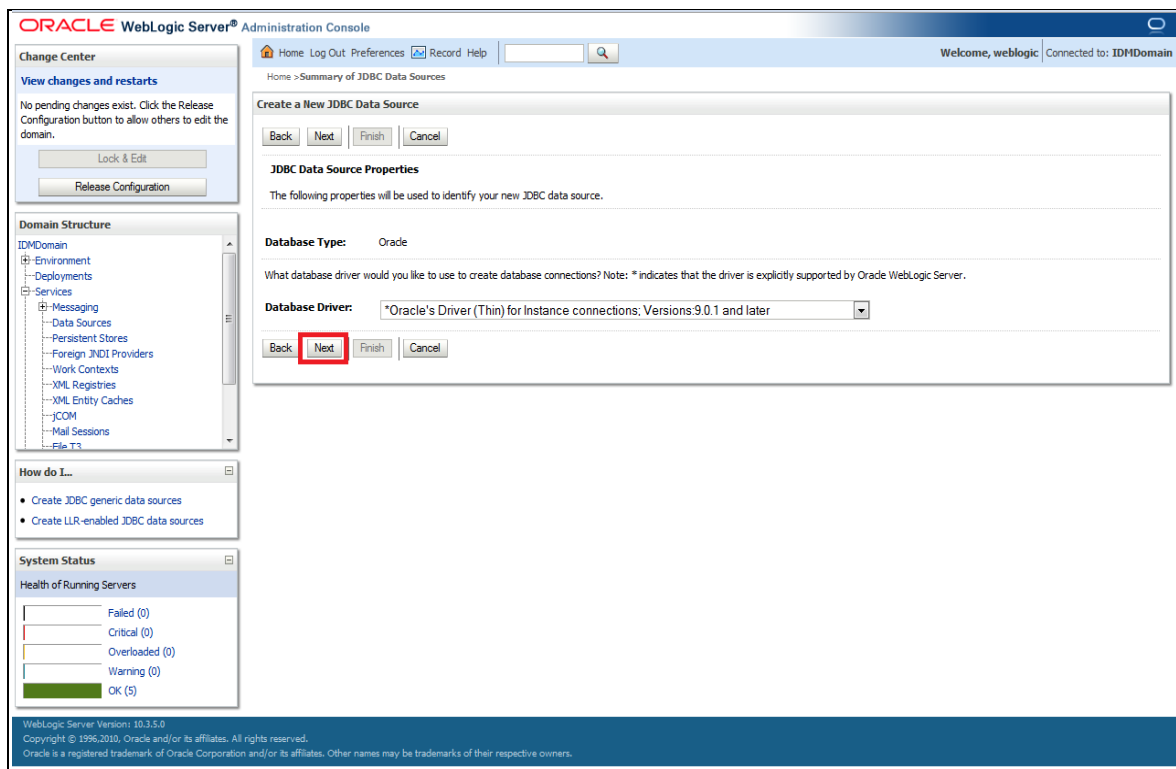
Enter the Data Source Name and JNDI Name as mentioned in the <ELCM Release Name>\ADAPTERS\OIM\FCUBSLOVAdService\config\lookup\_prop.xml → value of the key FCUBS\_CON\_POOLNAME.

For example value of the key FCUBS\_CON\_POOLNAME is OIM then:

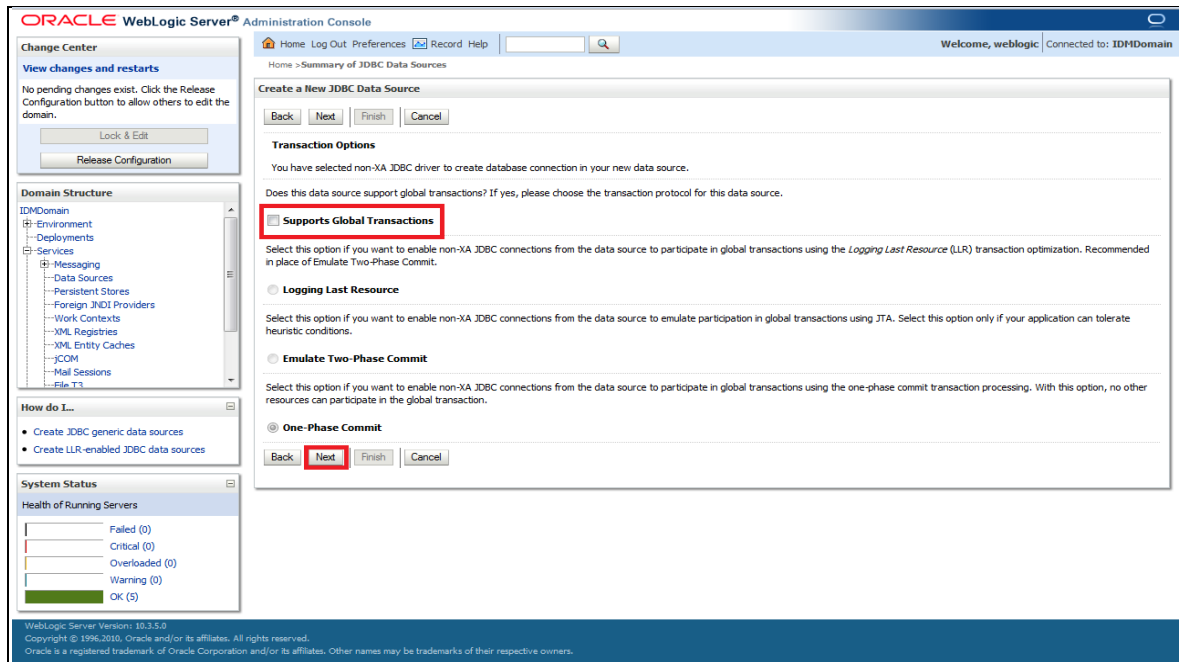
|               |          |
|---------------|----------|
| Name          | OIM      |
| JNDI Name     | jdbc/OIM |
| Database Type | Oracle   |



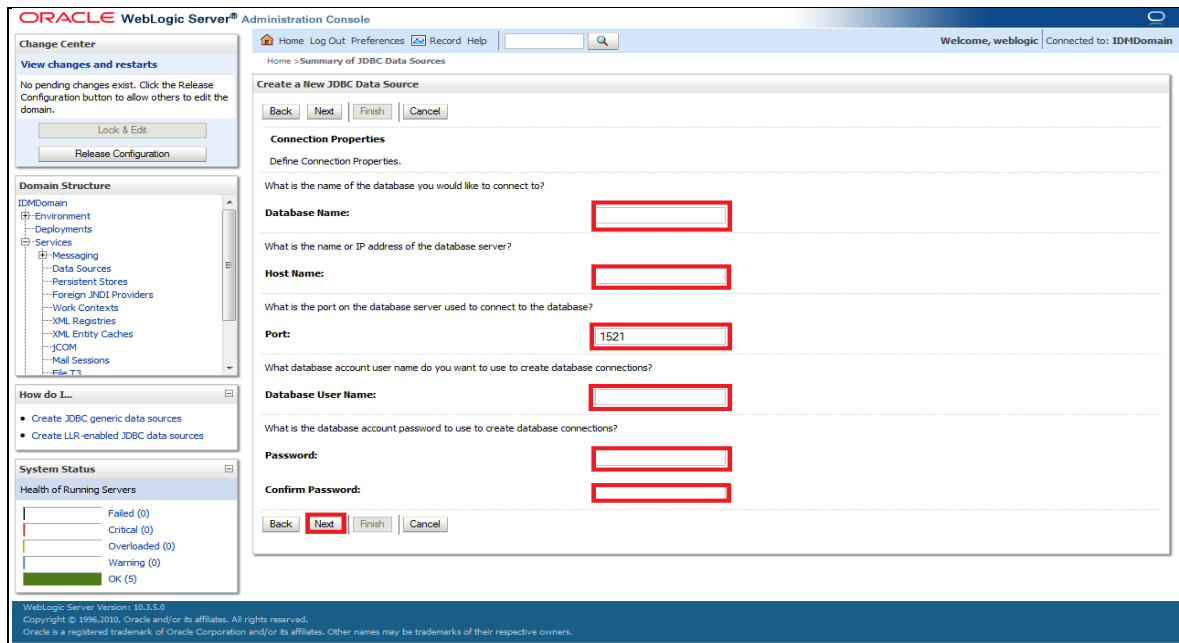
The following screen will get displayed. Select Database Driver as Oracle's Driver (Thin) for Instance connections: Versions 9.0.1 and later. Click on Next.



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.





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

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: IDMDomain

**Change Center**

View changes and restarts

Pending changes exist. They must be activated to take effect.

**Activate Changes**

Undo All Changes

**Domain Structure**

- IDMDomain
  - 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...**

- Create JDBC generic data sources
- Create JDBC GridLink data sources
- Create JDBC multi data sources
- Delete JDBC data sources
- Delete JDBC multi data sources

**System Status**

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (5)

**Summary of JDBC Data Sources**

Configuration Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

**Customize this table**

**Data Sources (Filtered - More Columns Exist)**

New Delete Showing 1 to 10 of 20 Previous Next

| Name                 | Type    | JNDI Name                 | Targets                        |
|----------------------|---------|---------------------------|--------------------------------|
| EDNDataSource        | Generic | jdbc/EDNDataSource        | soa_server1                    |
| EDNLocalTxDataSource | Generic | jdbc/EDNLocalTxDataSource | soa_server1                    |
| fcjdevDS             | Generic | jdbc/fcjdevDS             | Applications                   |
| fcjdevDS11           | Generic | jdbc/fcjdevDS11           | Applications                   |
| fcjdevDS120          | Generic | jdbc/fcjdevDS120          | Applications                   |
| FCUBS                | Generic | jdbc/fcjdevDS             | AdminServer, Applications      |
| FCUBS120_XA          | Generic | jdbc/fcjdevDS120_XA       | Applications                   |
| FCUBSScheduler       | Generic | jdbc/fcjSchedulerDS       | Applications                   |
| jdbc/registryDS      | Generic | jdbc/registryDS           | wls_ods1, wls_of1, oas_server1 |
| mds-om               | Generic | jdbc/mds/MDS_REPOS        | om_server1                     |

New Delete Showing 1 to 10 of 20 Previous Next

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