Oracle® FLEXCUBE Investor Servicing

Setting up Plug-Ins

Release 14.7.6.0.0

G27709-01

ORACLE

Oracle FLEXCUBE Investor Servicing Setting up Plug-Ins, Release 14.7.6.0.0

G27709-01

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Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

Purpose

This manual is designed to help acquaint you with the installation of **Oracle FLEXCUBE Investor Servicing** application.

Audience

This manual is intended for the following User/User Roles:

Table 1 Users and Roles

Users	Roles
Implementation team	Implementation of Oracle FLEXCUBE Investor Servicing
Presales team	Install Oracle FLEXCUBE Investor Servicing for demo purpose
Bank personnel	Who installs Oracle FLEXCUBE Investor Servicing

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used are as follows:

Table 2 Acronyms and Abbreviations

Abbreviation	Description
FCIS	Oracle FLEXCUBE Investor Servicing
OEM	Oracle Enterprise Manager

Table 2 (Cont.) Acronyms and Abbreviations

Abbreviation	Description
EMS	Electronic Messaging Service
EJB	Enterprise Java Bean
MDB	Message Driven Beans

1

Set Up Plug-Ins

1.1 Introduction

The user need to carry out certain tasks manually before Oracle FLEXCUBE deployment. This document details out the pre-deployment tasks based on the on the selected plug-ins.

1.2 Integrating Oracle FLEXCUBE IS and BPEL

This topic explains Integrating Oracle FLEXCUBE IS and BPEL.

If you have created the EAR file with BPEL as a plug-in, then along with the Oracle FLEXCUBE IS EAR file, the Installer creates the **FCBPELCIS.jar** file. You need to complete the following tasks before deploying the Oracle FLEXCUBE IS EAR file.

- IPM Configuration To Edit The Document
  This topic explains to edit the document using the IPM configuration.
- Configuring Superviser Roles in EM
  This topic explains to configure superviser roles in the Oracle Enterprise Manager.
- Email Driver Configuration
  This topic explains the stps to configure the email driver.
- TimeOut Settings for BPEL
  This topic explains the TimeOut Settings for BPEL.

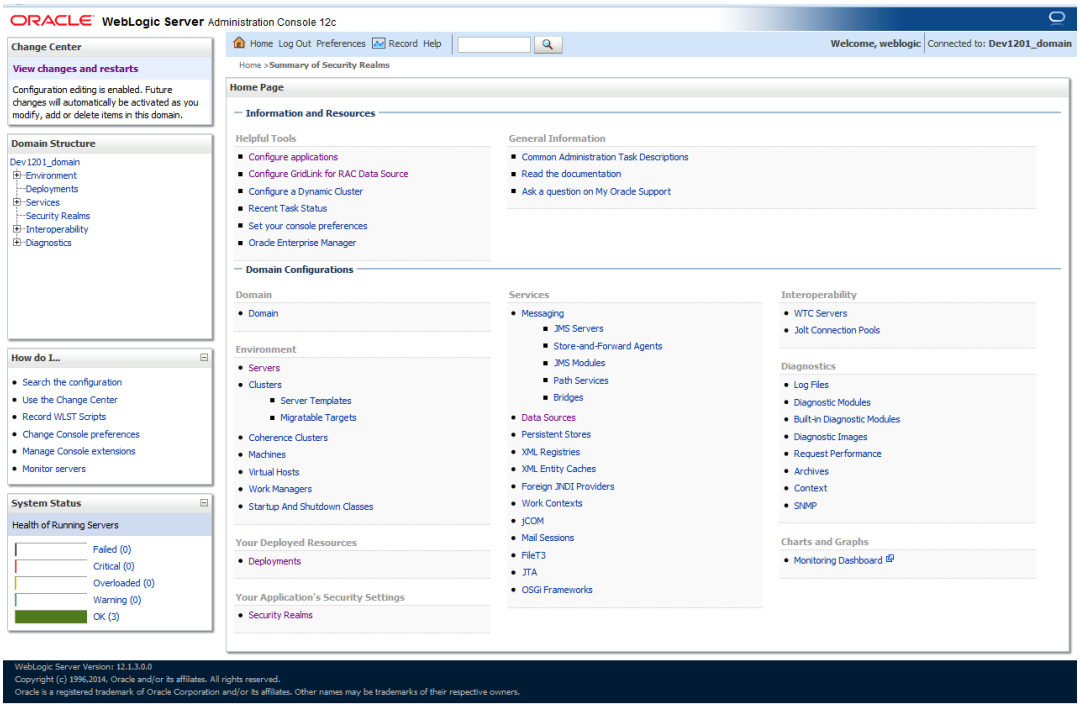
1.2.1 Custom Provider Configuration

This topic explains the details of the custom authentication.

FCUBS Custom Authenticator Provider configuration has to be done from the Weblogic console of SOA or manually update the config.xml of the SOA domain. Below steps needs to be followed to setup Custom Authentication Provider:

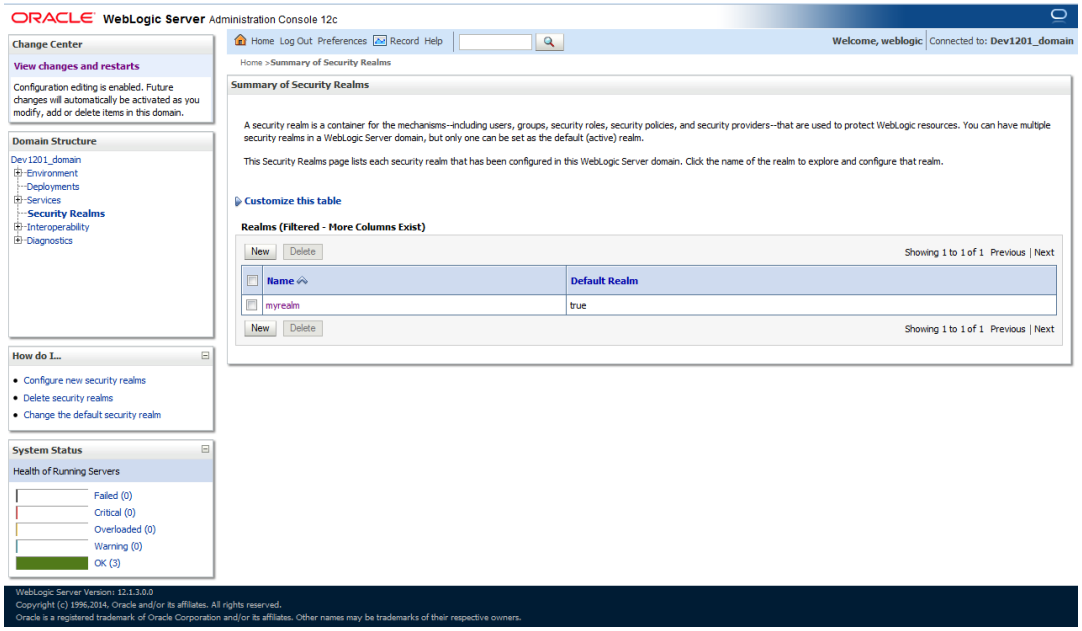
1. Along with the FCIS Ear file, the Installer creates the **FCUBSAuthenticationProvider.jar** file.
   - Copy this file to the following path on the application server host `<ORACLE_HOME>\wlserver\server\lib\mbeantypes`.
2. Restart the Admin Server.
3. Login to the Console.
4. Click on Security Realms.

Figure 1-1 Oracle Weblogic Server - Security Realms



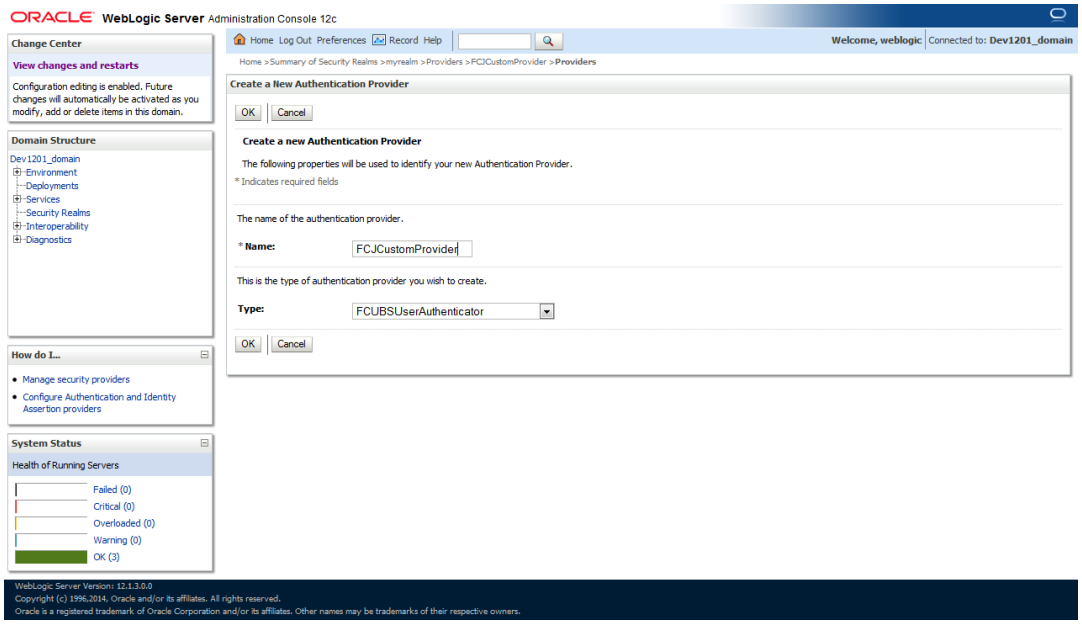
5. Click on myrealm.

Figure 1-2 Oracle Weblogic Server - Security Realms - myRealm



6. Click on the **Providers** tab and click on the **New** button to create a new authentication provider.

Figure 1-3 Oracle Weblogic Server - Providers - Create New Authentication Provider



7. Give the Provider name as **FCJCustomProvider** and type as **FCUBSUserAuthenticator**.
8. Click the **Reorder** button to bring the newly created provider to first of all providers and click the **OK** button.

Figure 1-4 Oracle Weblogic Server - Providers - Reorder

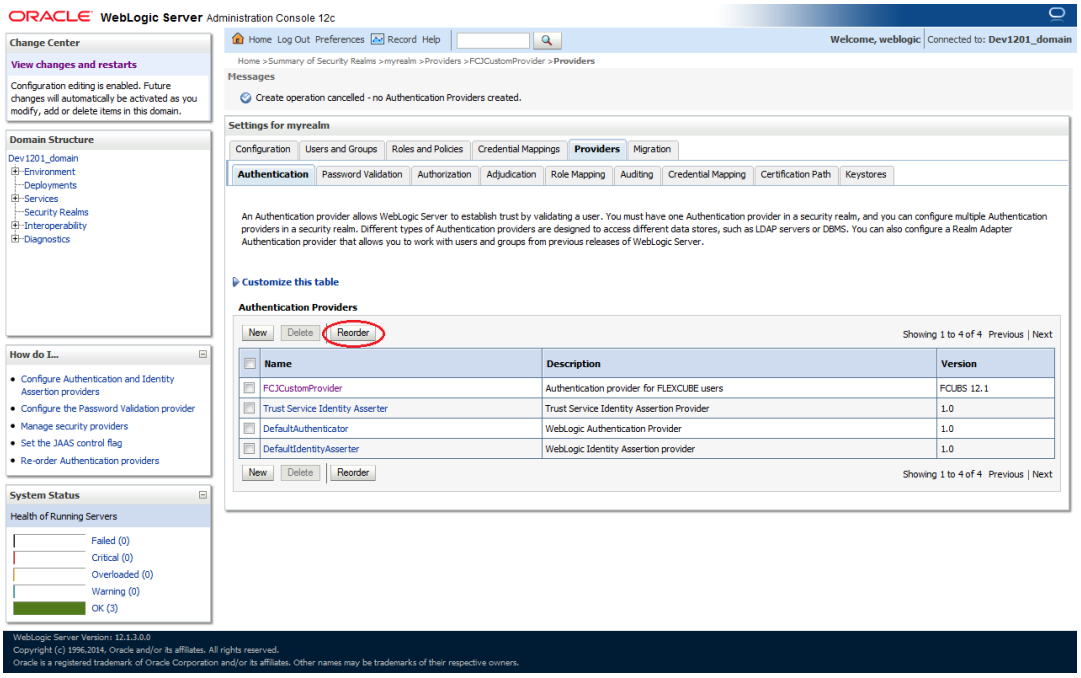
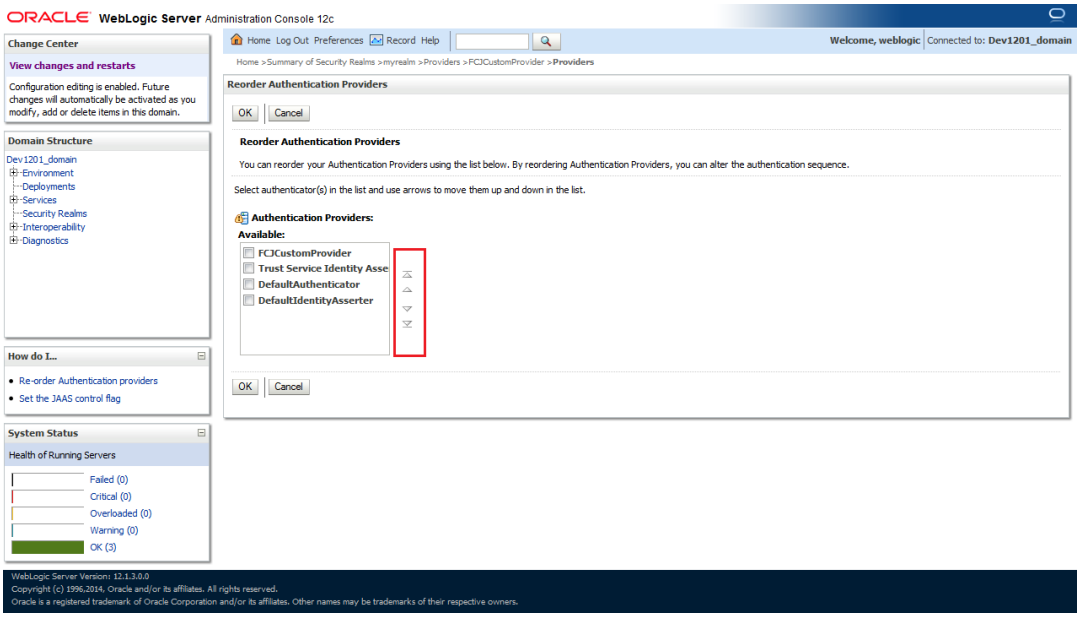
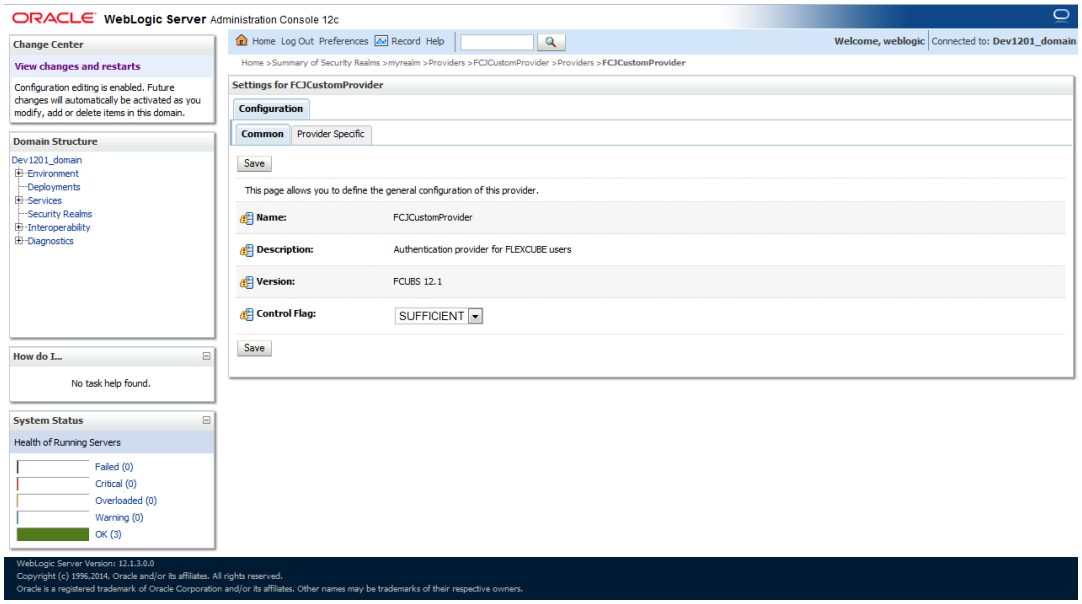


Figure 1-5 Oracle Weblogic Server - Providers - Reorder List



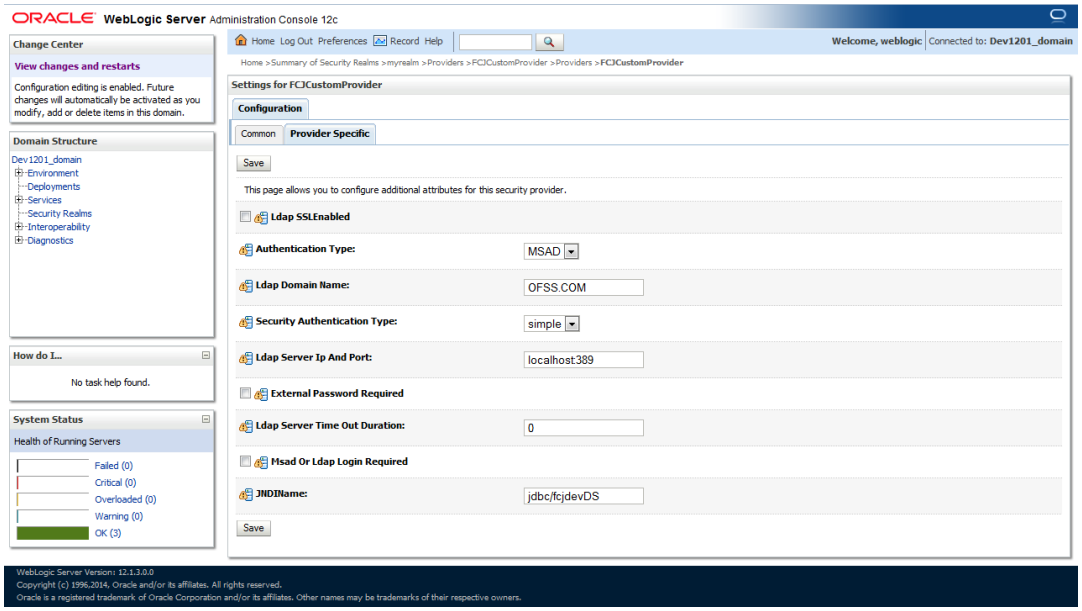
9. Click on **FCJCustomProvider**.
10. In the Common tab, change the control flag to **SUFFICIENT**.

Figure 1-6 Oracle Weblogic Server - Settings for FCJCustomProvider - Common



11. In Provider Specific tab,
    - Set JNDIName as Flexcube JNDI Name.
    - If external authentications are used in FCIS, then Fill the LDAP/MSAD related fields.

Figure 1-7 Oracle Weblogic Server - Settings for FCJCustomProvider - Provider Specific



12. For manually editing the config.xml go to `<ORACLE_HOME>\Middleware\user_projects\domains\base_domain\config\` path and open the config.xml file.
    The following codes need to be added at proper locations in the config.xml.

- Search for <realm> tag and add the following code between <realm> and </realm> tags.This should be the first child of the realm Node.

```
<sec:authentication-provider xmlns:n1="http://fcubs.ofss.com/security"
xsi:type="n1:fcubs-user-authenticatorType">
<sec:name>FCJCustomProvider</sec:name>
<sec:control-flag>SUFFICIENT</sec:control-flag>
<n1:msad-or-ldap-login-required>true</n1:msad-or-ldap-login-required>
<n1:external-password-required>true</n1:external-password-required>
<n1:authentication-type>MSAD</n1:authentication-type>
<n1:ldap-server-ip-and-port>LDAP://localhost:389</n1:ldap-server-ip-and-
port>
<n1:ldap-ssl-enabled>true</n1:ldap-ssl-enabled>
<n1:security-authentication-type>simple</n1:security-authentication-
type>
<n1:ldap-domain-name>OFSS.COM</n1:ldap-domain-name>
<n1:ldap-server-time-out-duration>0</n1:ldap-server-time-out-duration>
 </sec:authentication-provider>
```

- Make sure tag values matches the value given during Property file creation.

1.2.2 Configure libovd for single Entity

This topic explains the configuration of lipovd details for single entity.

Follow the steps given below to configure the libovd details for a single entity.

1. Along with the Oracle FLEXCUBE IS EAR file, the Installer creates the **FCBPELCIS.jar** file.
2. On the application server host, create a folder by the name **classes** at the location `<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x`.
3. Extract the file **FCBPELCIS.jar** and from the extracted content, copy the folder **com** to: `<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes`.
4. Navigate to the location `<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes\com\ofss\fcc\bpel\cac`. Edit the properties file **CISProperties.properties** and update **JNDI.name** with the JNDI name defined in the property file **fcubs.properties**.
5. Copy **FCBPELCIS.jar** to `<MIDDLEWARE_HOME>/user_projects/domains/<domain_name>/config/fmwconfig/ovd/plu gins/lib`.

   Create the directory structure if it does not exists.
6. Copy the fcubs_adapter.xml to `<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/`.
7. Search for `<FCUBSDATASOURCE>` in fcubs_adapter.xml and update it with FCUBS Datasource name.
8. Execute the **libovdadapterconfig** script which is present in `<MIDDLEWARE_HOME>/oracle_common/bin` with below parameters.
9. Provide the below arguments with values for admin server host name or IP, admin server port, WebLogic user id, domain home, and fcubs datasource.

   ```
   ./libovdadapterconfig.sh -adapterName fcubsadapter -adapterTemplate
   fcubs_adapter.xml -host <ADMIN_SERVER_HOST> -port <ADMIN_PORT> -userName
   ```

```
<WEBLOGIC_USERID> -domainPath <DOMAIN_HOME> -dataStore DB -root
ou=fcubs,dc=oracle,dc=com -contextName default - dataSourceJNDIName
<FCUBSDATASOURCE>
```

10. Once the above steps are completed, restart the server.

1.2.3 Configure libovd for Multi Entity

This topic explains to

Follow the steps given below to configure the libovd details for multi entity.

1. Continue step 1 to step 5 from Configure libovd for single Entity.
2. In the following steps, replace the <EntityId> tag with the proper Entity name.
3. Copy the fcubs_adapter_<EntityId>.xml to `<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/`
4. Search for <FCUBSDATASOURCE> in fcubs_adapter_< EntityId>.xml and update it with fcubs Datasource with the mapped Datasource for the entity in the property file.

   Ex:`<param name="DataSource" value="<FCUBSDATASOURCE>"/>`
5. Search for UserIdPattern Parameter and Update the value for OU to the entity name in lower case.

   EX: `<param name="UserIdPattern" value="cn=%USERID%,ou=<EntityId>,dc=oracle,dc=com"/>`
6. Search for MultiEntityEnabled element and update the value to **true**.

   EX: `<param name="MultiEntityEnabled" value="true"/>`
7. Search for EntityId element and update the value with the entity name in lower case which we have created.

   EX:`<param name="EntityId" value=" <EntityId>"/>`
8. Execute “libovdadapterconfig” script which is present in `<MIDDLEWARE_HOME>/oracle_common/bin` with below parameters.
9. Update the admin server host name or IP, admin server port, WebLogic user id, domain home, root, and fcubs datasource.

   ```
   libovdadapterconfig.sh -adapterName fcubsAdapter -adapterTemplate
   fcubs_adapter_< EntityId >.xml -host <ADMIN_SERVER_HOST> -port <ADMIN_PORT> -
   userName <WEBLOGIC_USERID> - domainPath <DOMAIN_HOME> -dataStore DB -root
   ou=<EntityId>,dc=oracle,dc=com -contextName default -dataSourceJNDIName
   <FCUBSDATASOURCE name which we mapped in step4>
   ```
10. Repeat from step 2 to step 7 for each entity creation.
11. Once the above steps are completed, restart the server.

1.2.4 Configure for Multiple Providers for Multiple Entities

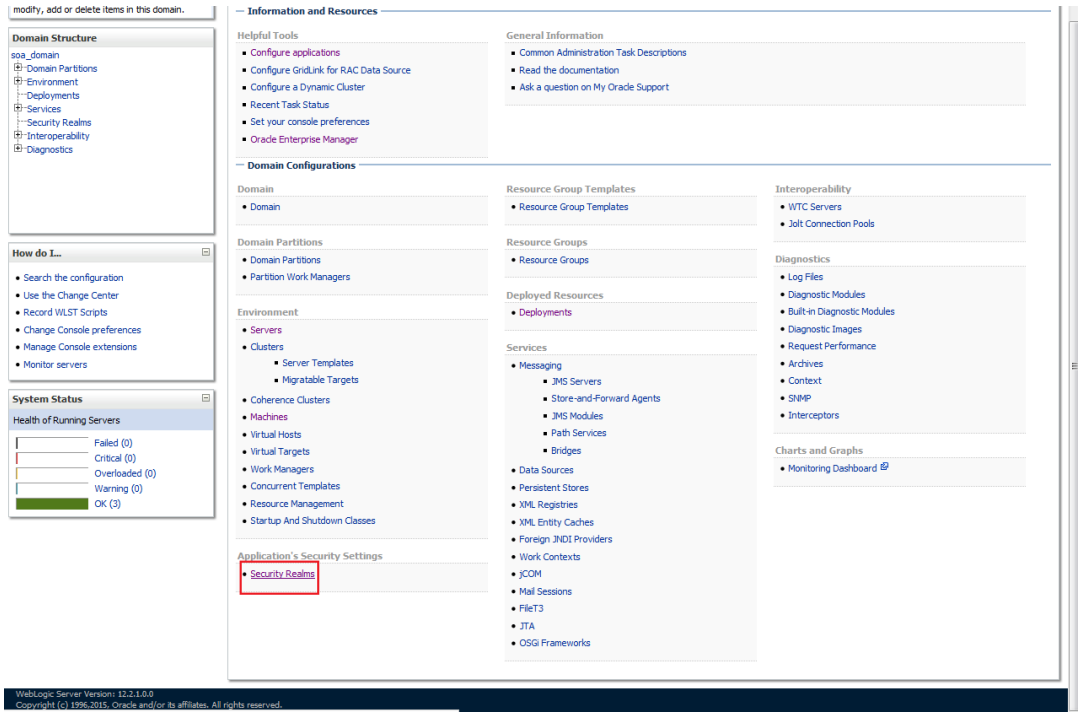
This topic explains to configure multiple providers for multiple entities.

1. Login to the Adminserver.

   The **Oracle Weblogic Server** screen is displayed.
2. Click on Security Realms.

The **Summary of Security Realms** screen is displayed.

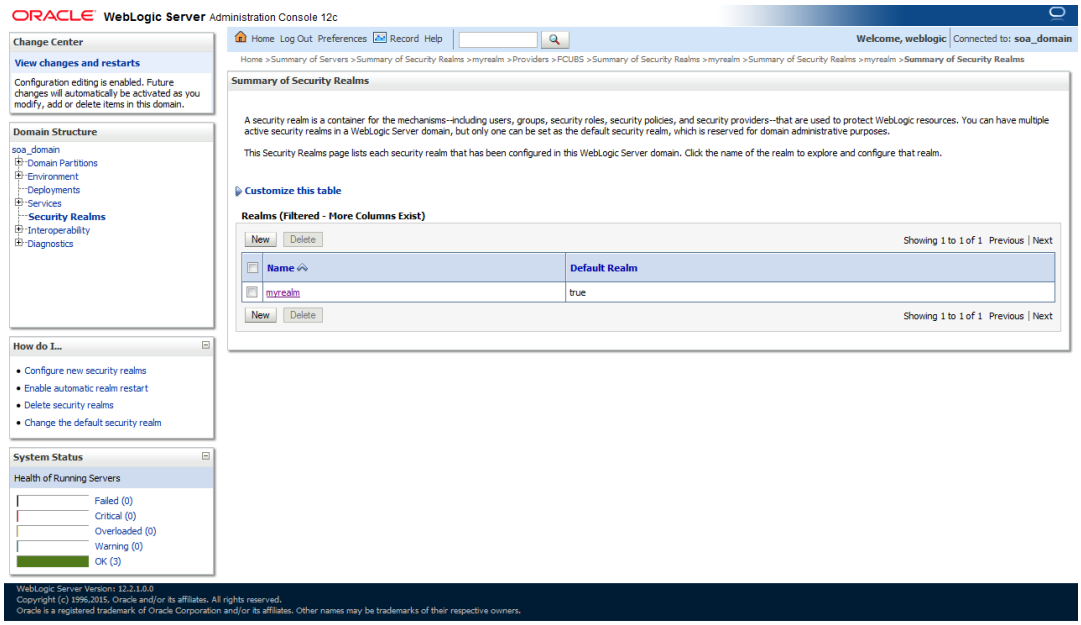
Figure 1-8 Summary of Security Realms



3. Click on myrealms.

   The **Settings for myrealms** screen is displayed.

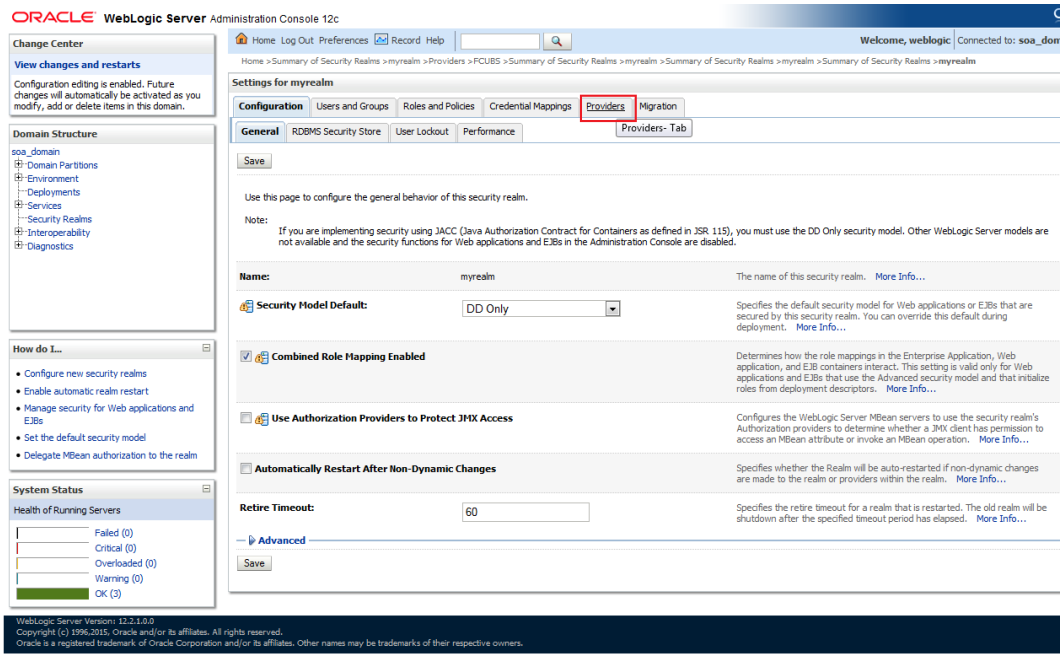
Figure 1-9 Settings for myrealms



4. Click on **Providers** tab.

   The **Settings for myrealms - Providers** screen is displayed.

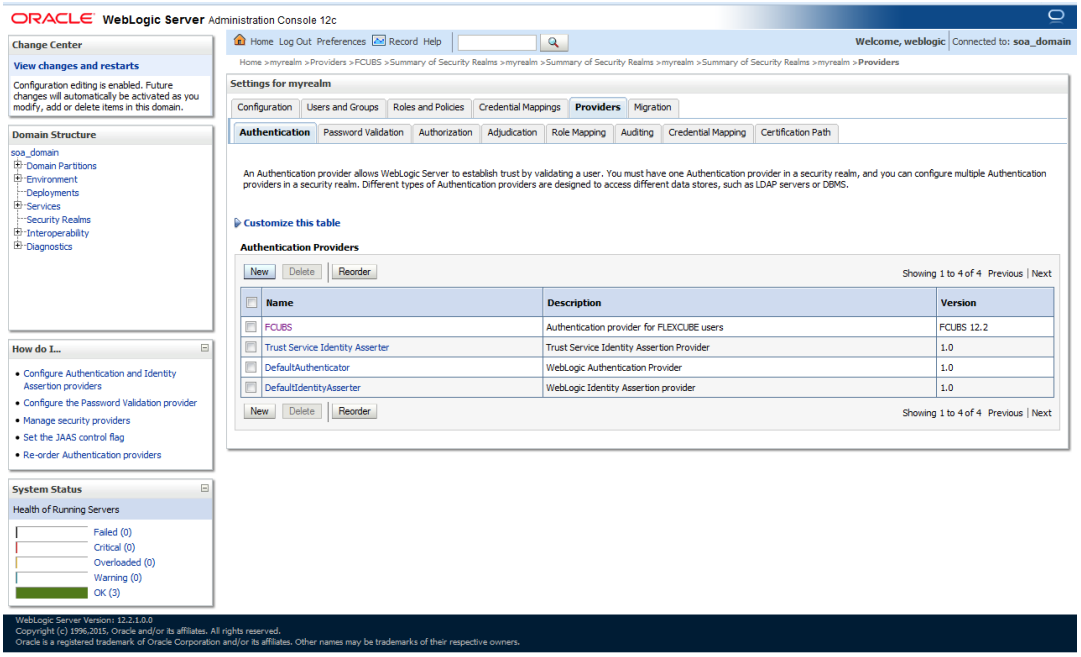
Figure 1-10 Settings for myrealms - Providers



5. Click on **New**.

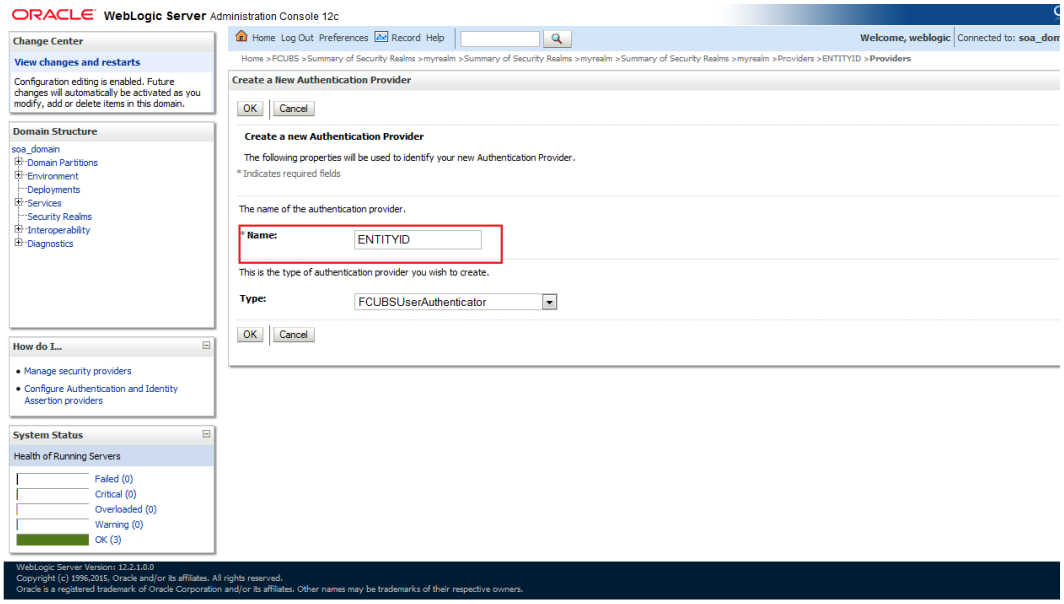
   The **Create a New Authentication Provider** screen is displayed.

Figure 1-11 Create a New Authentication Provider



6. Enter the Name with proper Entity Name (entity name we mapped in property file) and select the type as **FCUBSUserAuthenticator** and click **OK**.

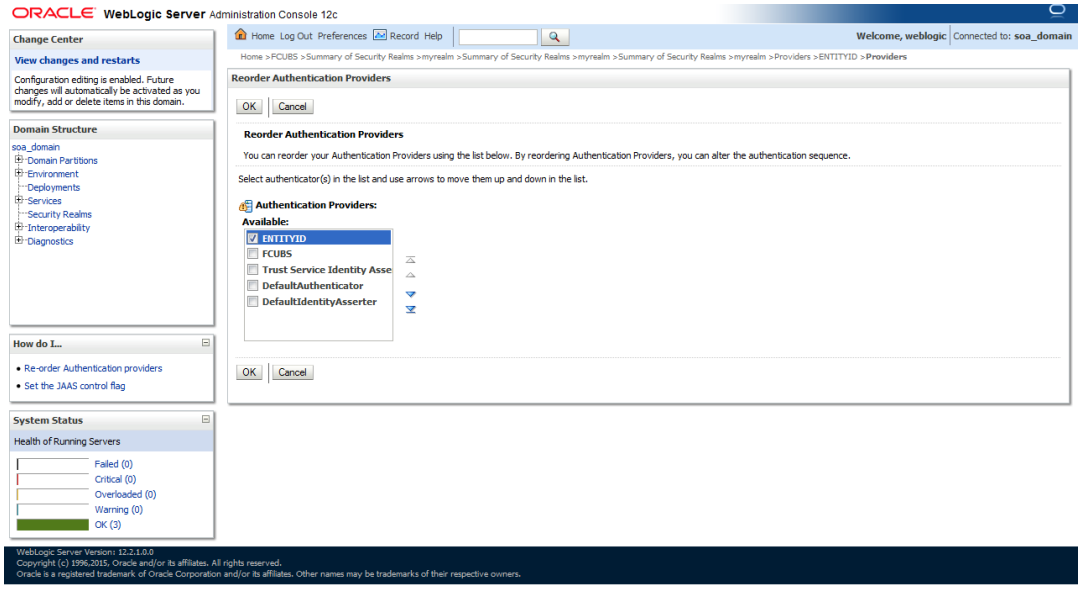
Figure 1-12 Create a New Authentication Provider with Entity ID



7. Click on **Reorder**. Select the required option in **Available** field and click OK.

   The **Reorder Authentication Providers** screen is displayed.

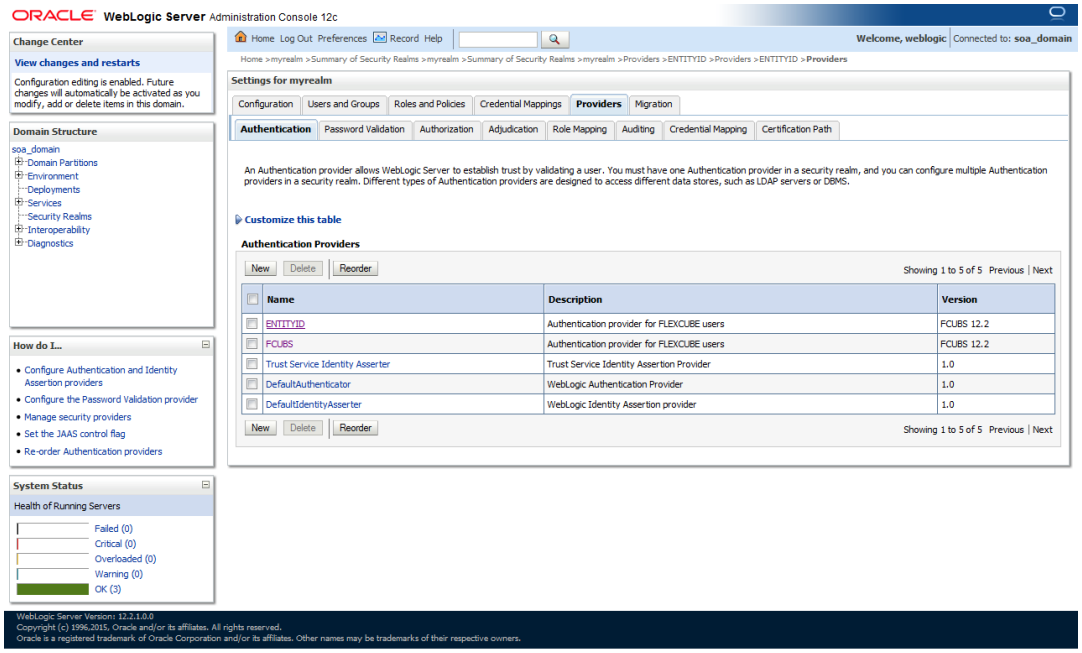
Figure 1-13 Reorder Authentication Providers



8. Click on the Provider that we have created.

   The **Settings for myrealms - Providers - New Provider** screen is displayed.

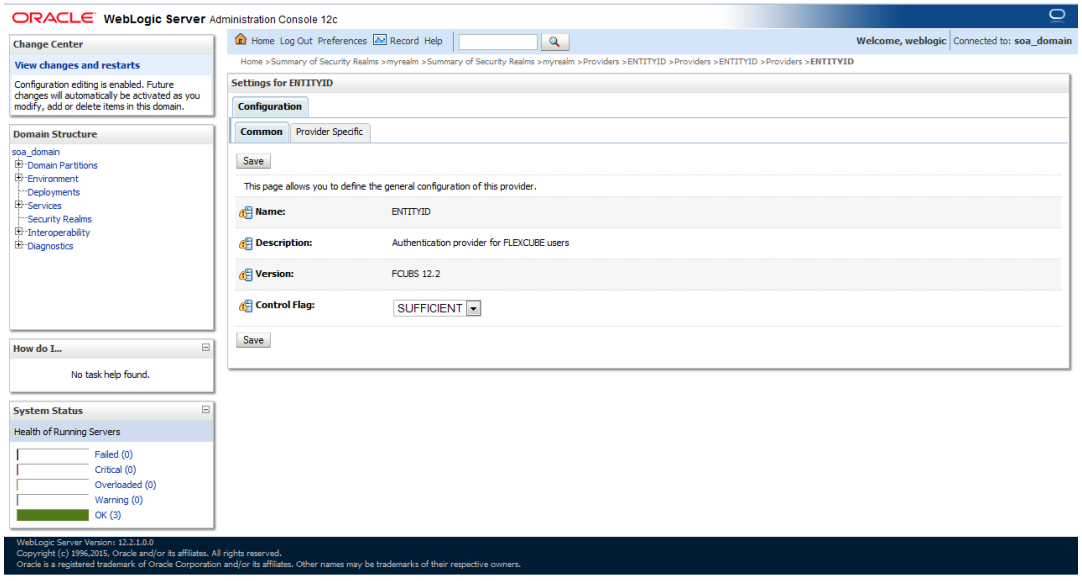
Figure 1-14 Settings for myrealms - Providers - New Provider



9. In the common tab, select the control flag as **SUFFICIENT** from the list and click on **Save**.

   The **Settings for ENTITYID** screen is displayed.

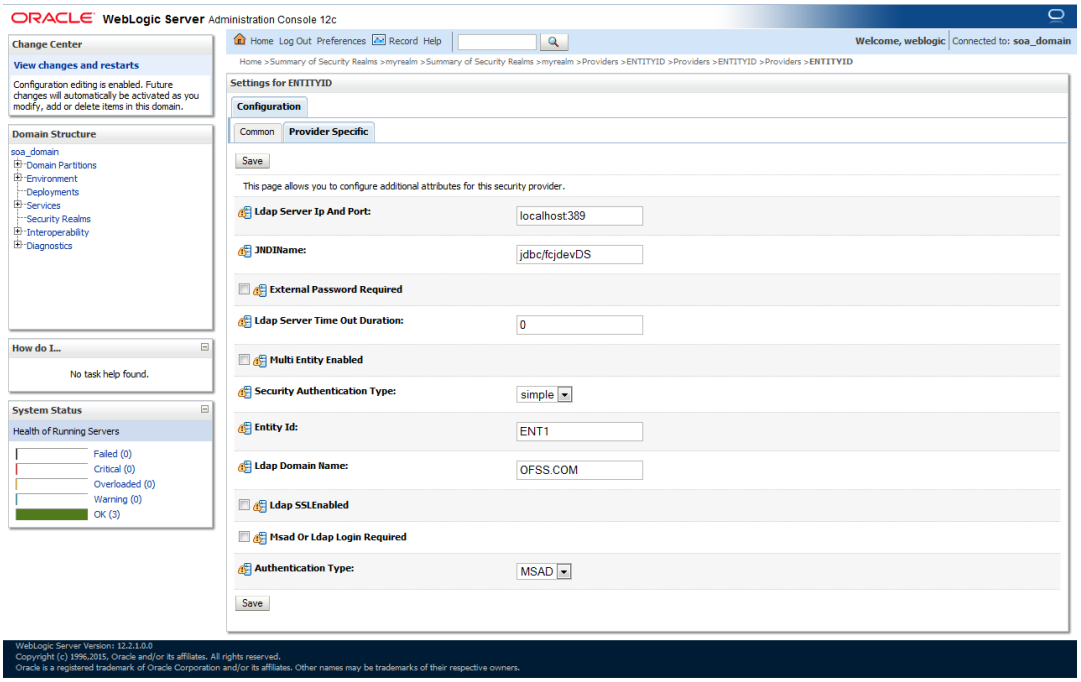
Figure 1-15 Settings for ENTITYID - Common



10. Select the provider specific tab.

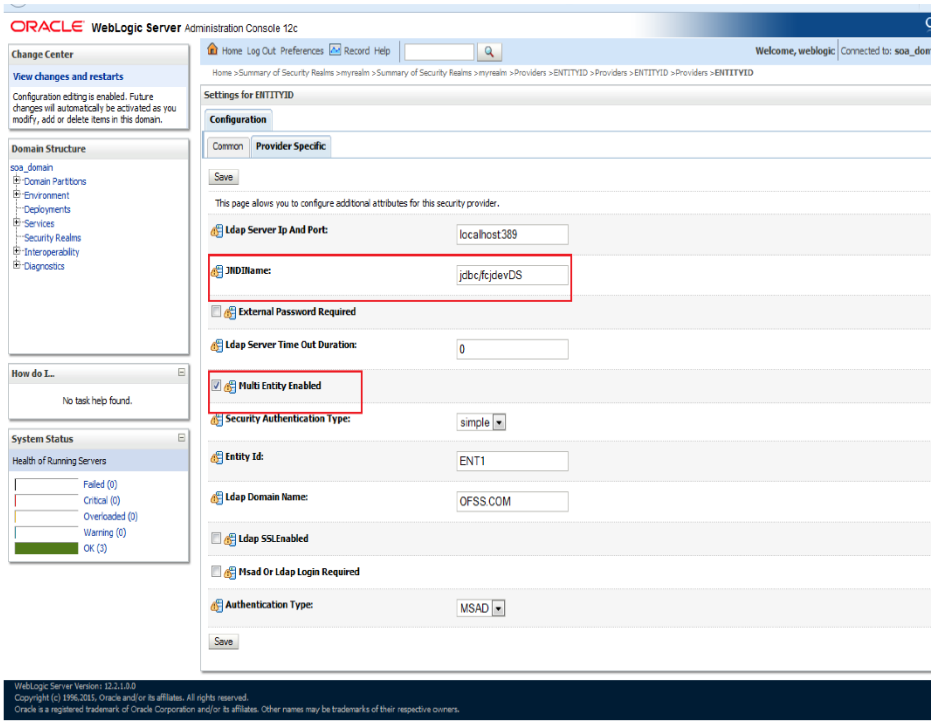
    The **Provider Specific** screen is displayed.

Figure 1-16 Settings for ENTITYID - Provider Specific



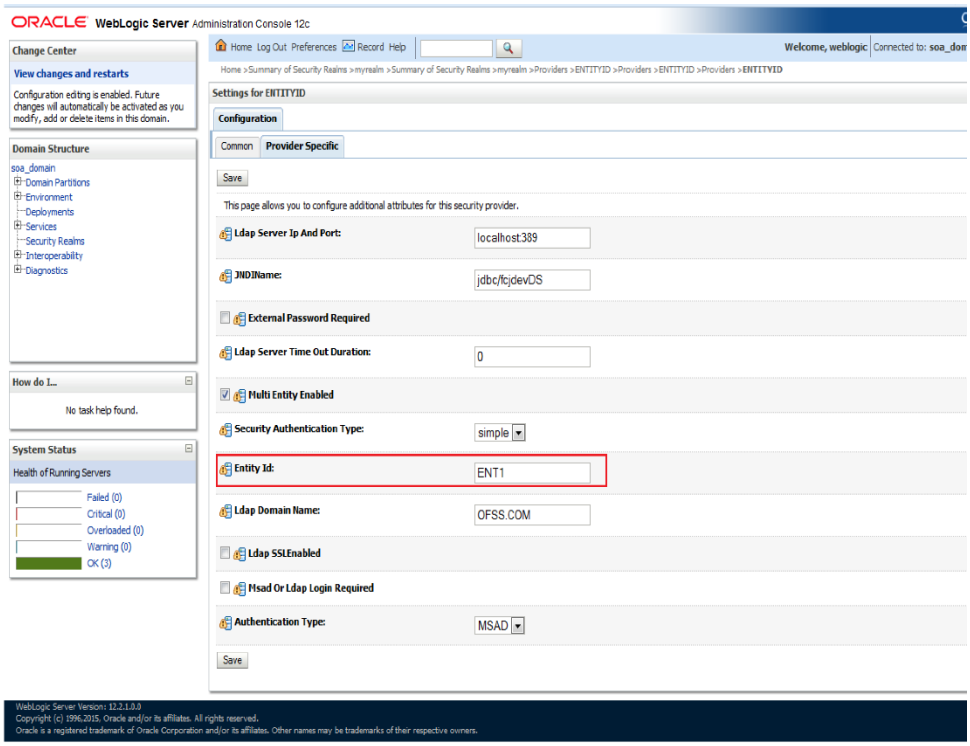
11. Change the JNDI name to the Datasource JNDI name, which has mapped to the entity in the property file level, and check the Multi Entity enabled checkbox.

Figure 1-17 Settings for ENTITYID - Provider Specific - Multi Entity



12. Enter the EntityId with the Entity name which we created in the property file level and click on **Save**.

Figure 1-18 Settings for ENTITYID - Provider Specific - Entity Id



13. Create the new datasource for each entity with the JNDI name, which we mapped in the property file.
14. Restart the Admin Server.
15. Continue step 1 to step 15 for each provider creation in a multientity scenario.

1.2.5 Configure DBAdapter

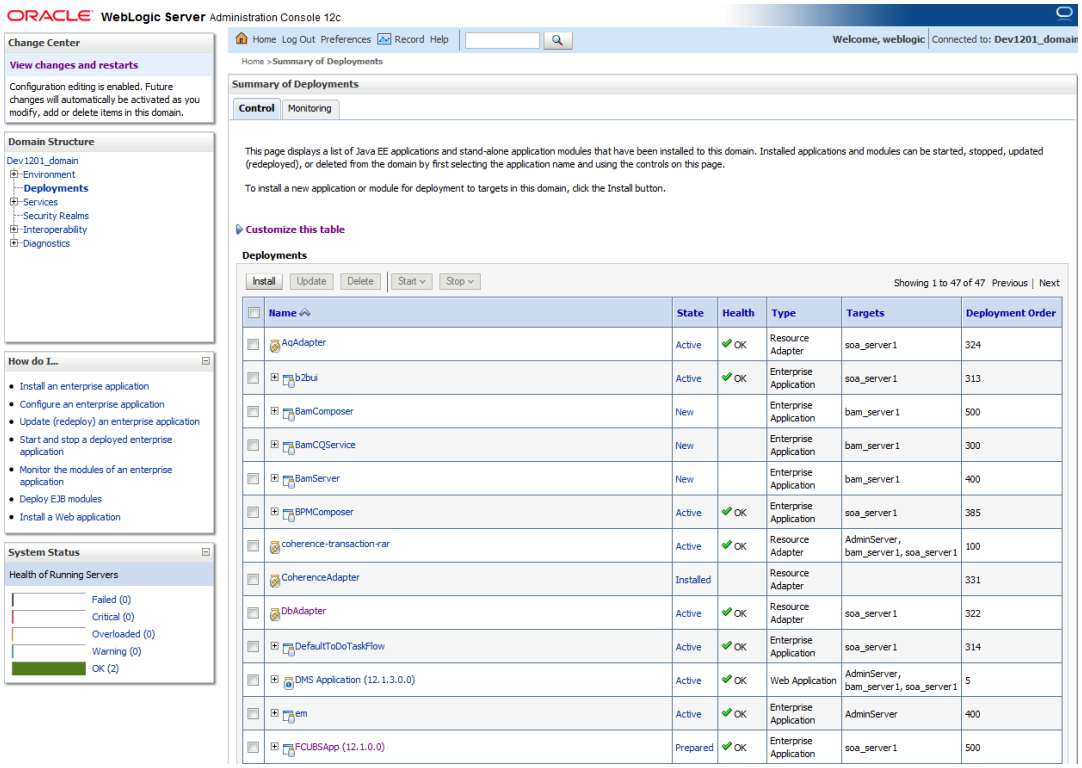
This topic explains the steps to configure DBAdapter.

To configure DBAdapter, follow the steps given below.

1. Log in to **Weblogic Console** and click **Deployment** under **Domain Structure**.

   The **Summary of Deployments** screen is displayed.

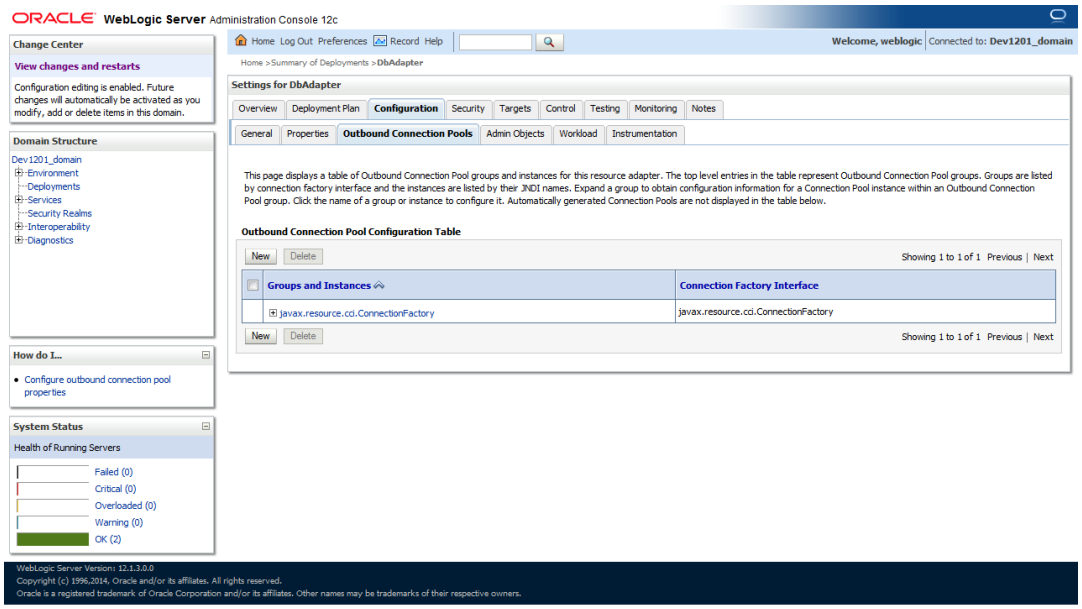
Figure 1-19 Summary of Deployments



2. In the Deployments table, select **DbAdapter**. You will be navigated to Settings for DbAdapter.

   The **Settings for DBAdapter** screen is displayed.

Figure 1-20 Settings for DBAdapter



3. Click the **Configuration** tab and select **Outbound Connection Pools** under it.
4. Under **Groups and Instances**, click and expand **javax.resource.cci.ConnectionFactory**.

5. Click **New** and select **javax.resource.cci.ConnectionFactory** in Outbound Connection Group.
6. Define **JNDI Name** as eis/DB/FCCDEV and click on **Finish**.

The jndi name should be the same as the one in the **Dbutility sub-process**.

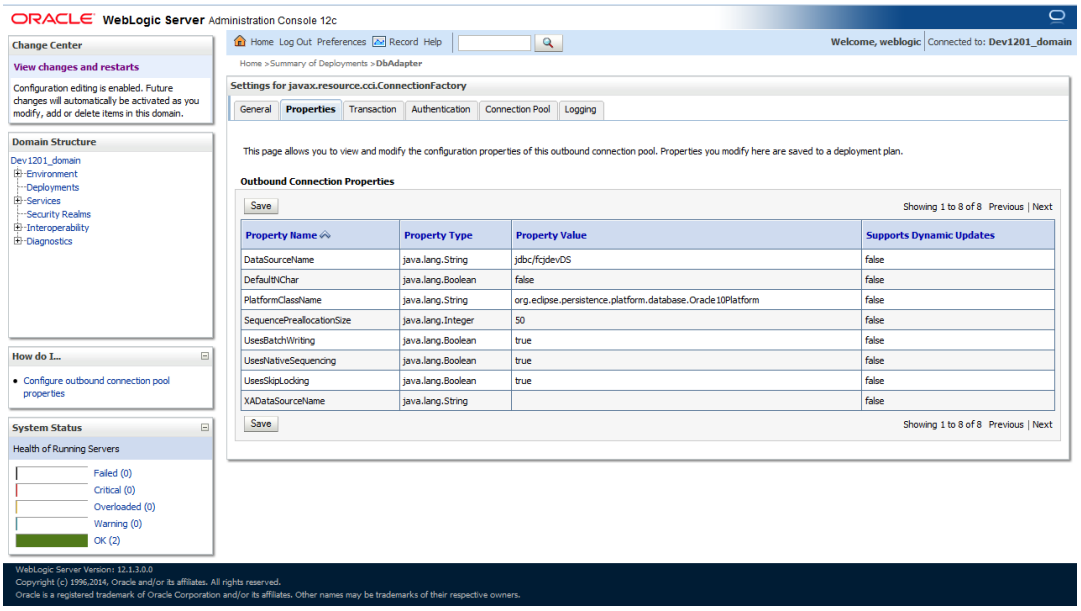
7. Click the **DbAdapter** again.

   The new JNDI name is listed.

8. Click on the hyperlink `eis/DB/FCCDEV`.

   The **Settings for javax.resource.cci.ConnectionFactory** screen is displayed.

Figure 1-21 Settings for javax.resource.cci.ConnectionFactory



9. Click the **Property Value** field for the **DataSourceName** and update the application JNDI reference (given in fcubs.properties file), and press the **Enter** key.
10. **Save** and restart the Admin server.

1.2.6 Configure JMS Adapter

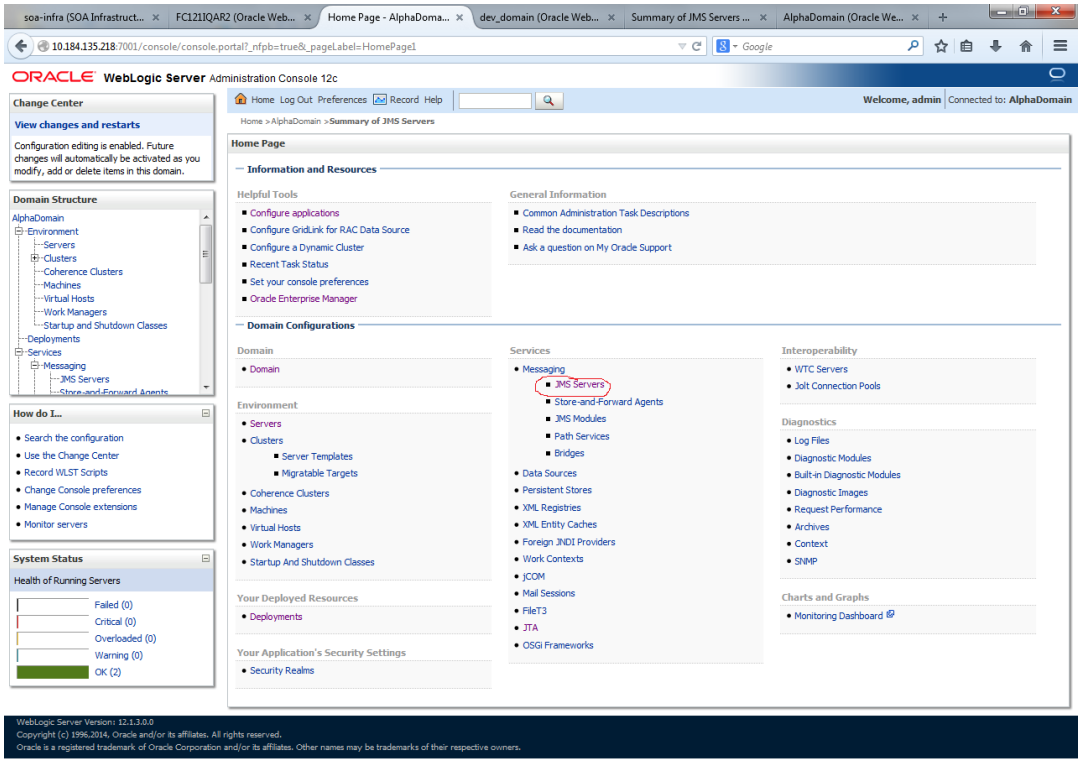
This topic explains to configure JMS Adapter.

To configure JMS Adapter, follow the steps given below.

1. Log in to **Weblogic Console** and click on **JMS Servers** under **Domain Configurations - Services**.

   The **Weblogic Console Home Page** is displayed.

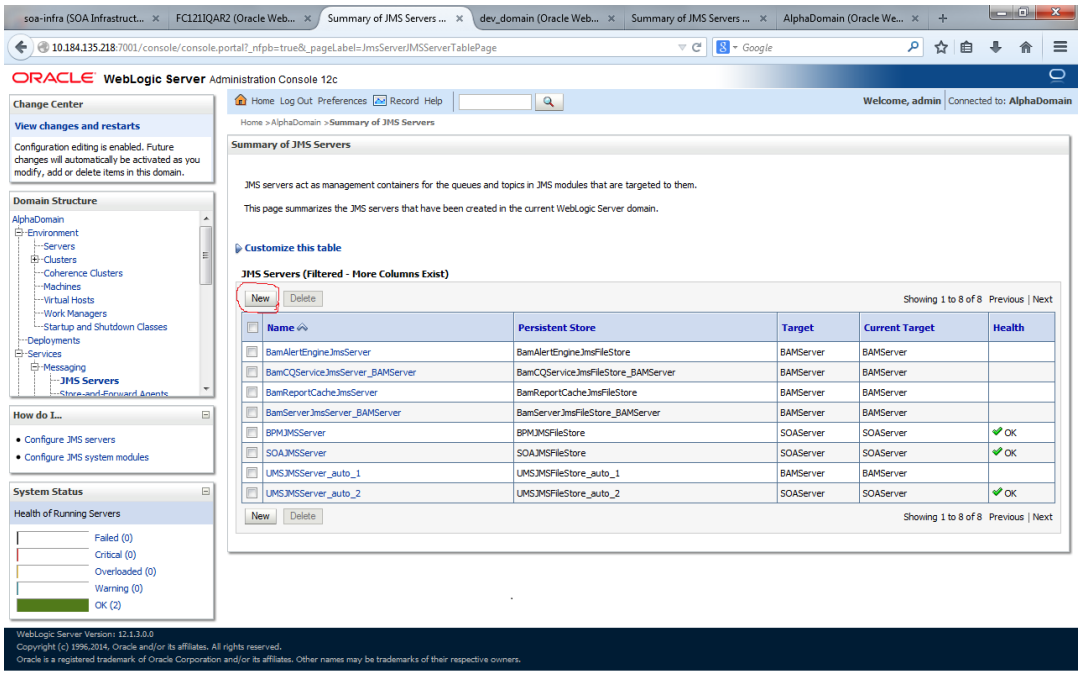
Figure 1-22 Weblogic Console Home Page



2. Click on **New**.

The **Summary of JMS Servers** screen is displayed.

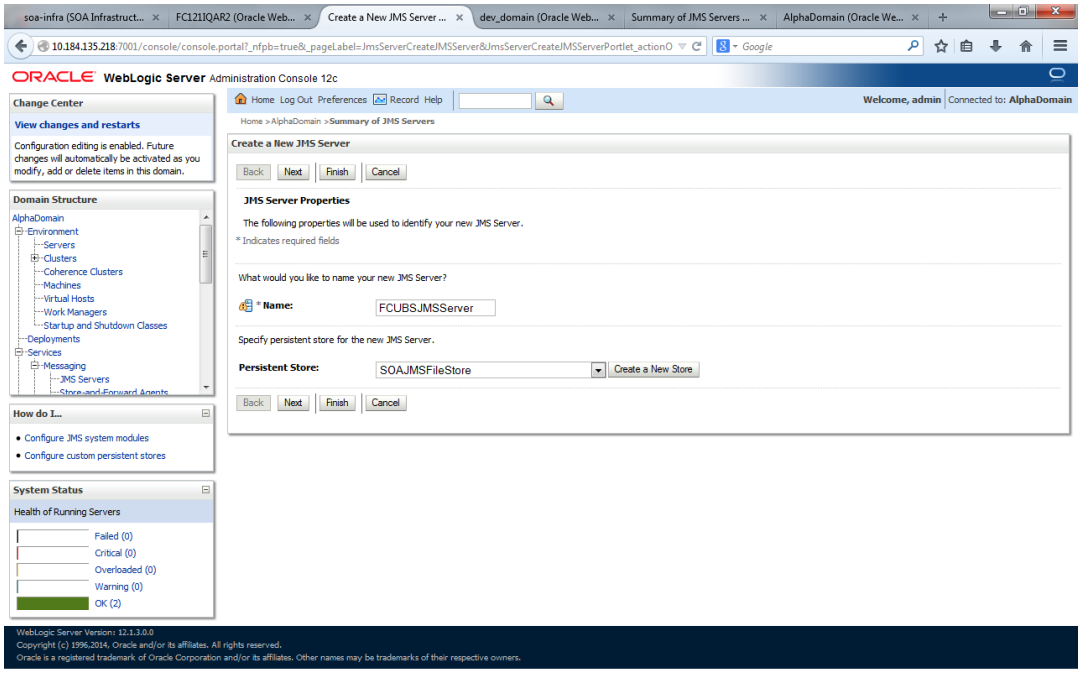
Figure 1-23 Summary of JMS Servers



3. Provide the **Name** for JMS Server as **FCUBSJMSServer**, select the file **Persistent Store** as **SOAJMSFileStore** from the dropdown list and click **Next**.

The **Create a New JMS Server** screen is displayed.

Figure 1-24 Create a New JMS Server



4. Select the **Target** as SOAServer from the dropdown list and click **Finish**.

   The **Create a New JMS Server - Select Target** screen is displayed.

Figure 1-25 Create a New JMS Server - Select Target

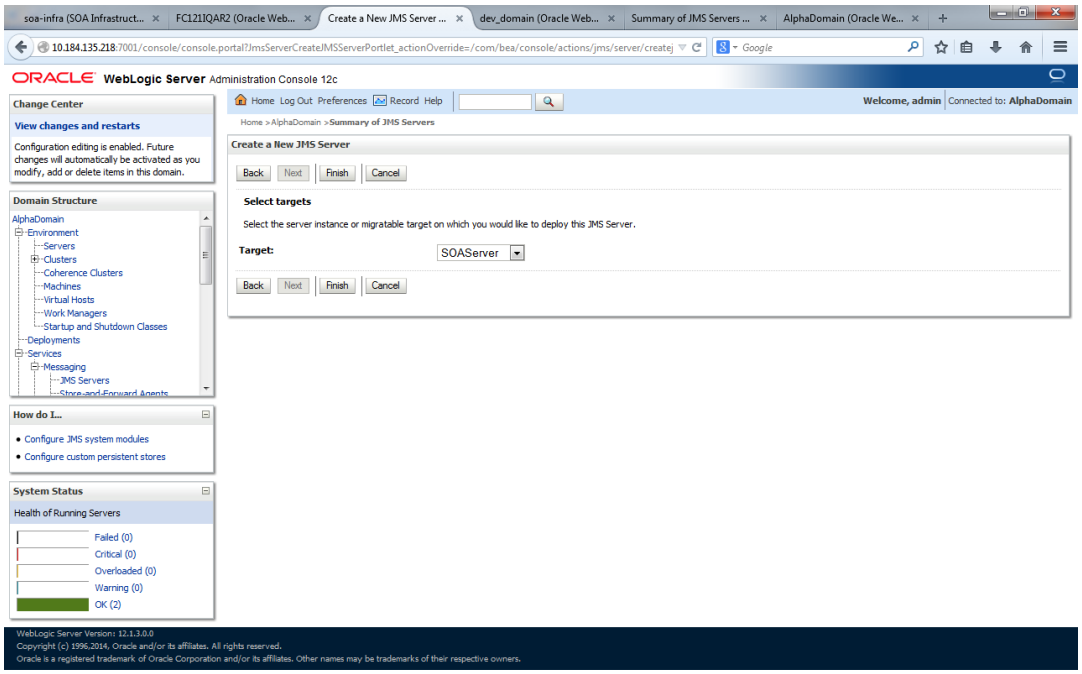
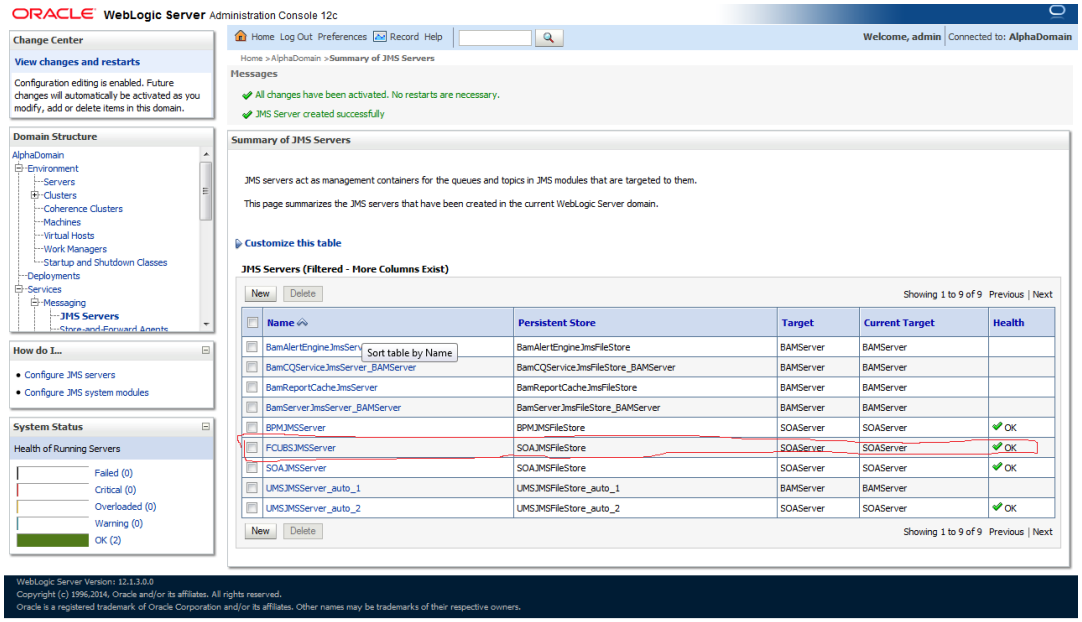


Figure 1-26 Summary of JMS Servers - Filtered



5. Go back to **Weblogic Console** and click on **JMS Modules** under **Domain Configurations - Services**.
6. Click on **New**.

   The **Summary of JMS Modules** screen is displayed.

Figure 1-27 Summary of JMS Modules

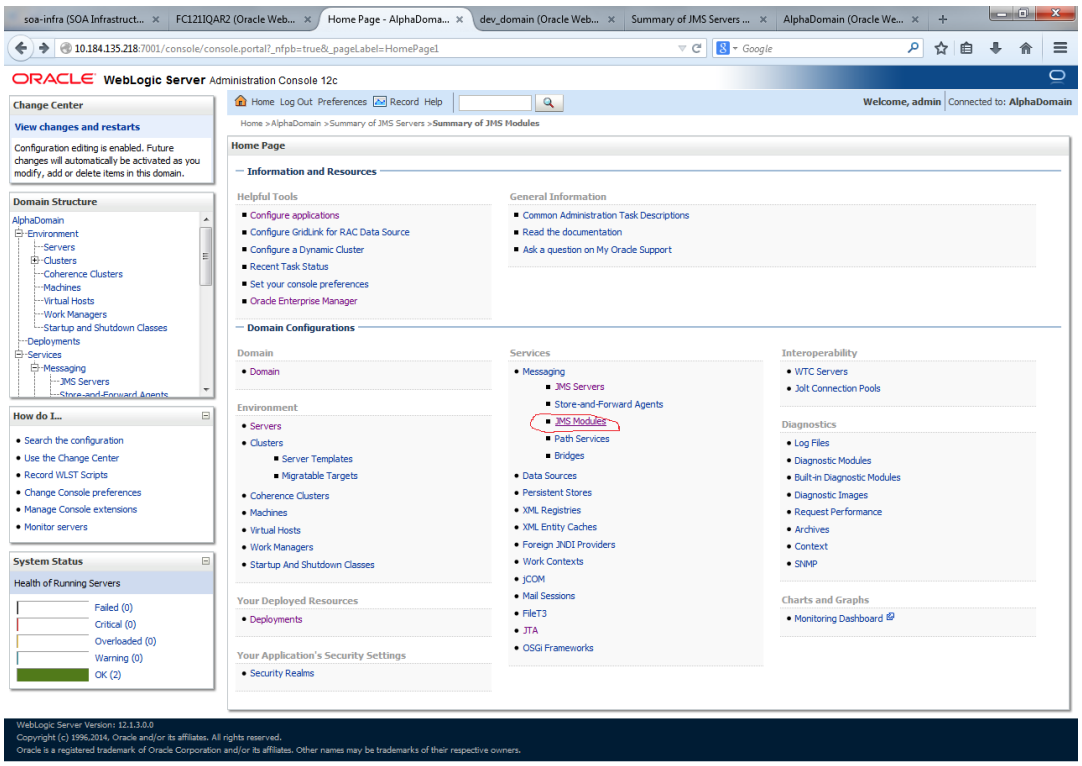
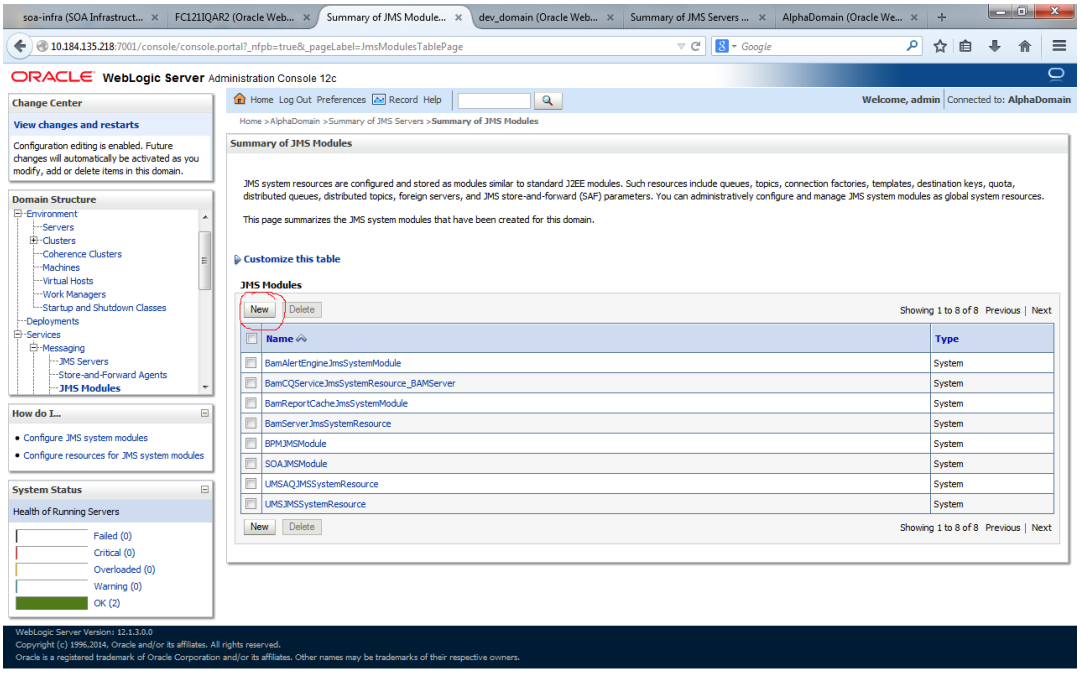


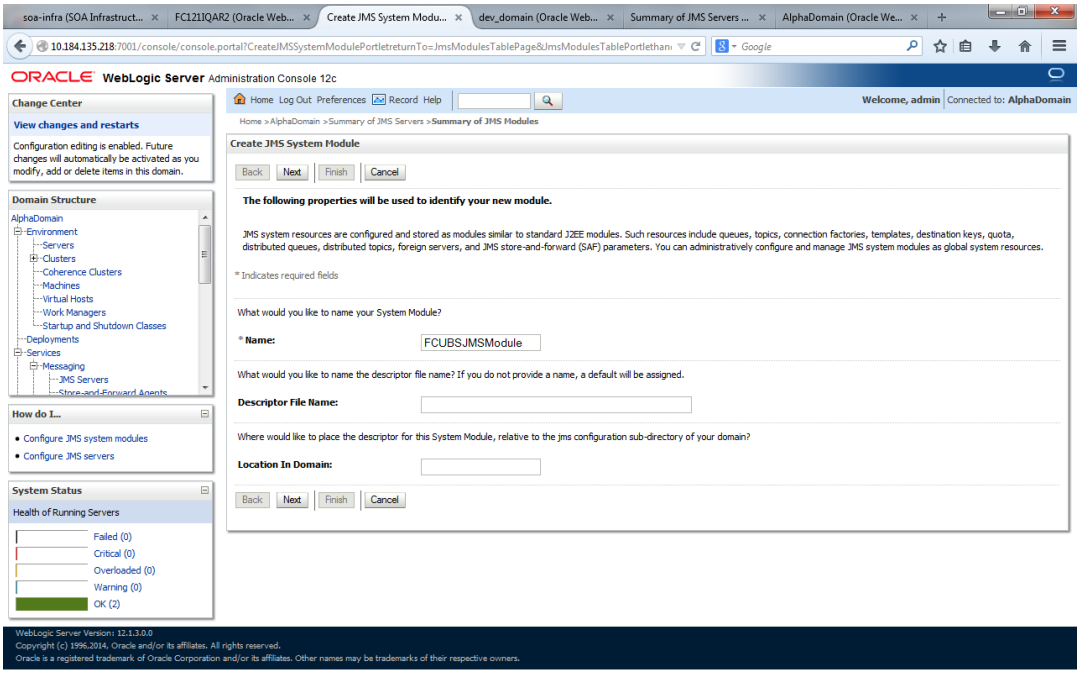
Figure 1-28 JMS Module - New



7. Create a JMS Module with the name **FCUBSJMSModule**. Click on **Next**.

   The **Create JMS System Module** screen is displayed.

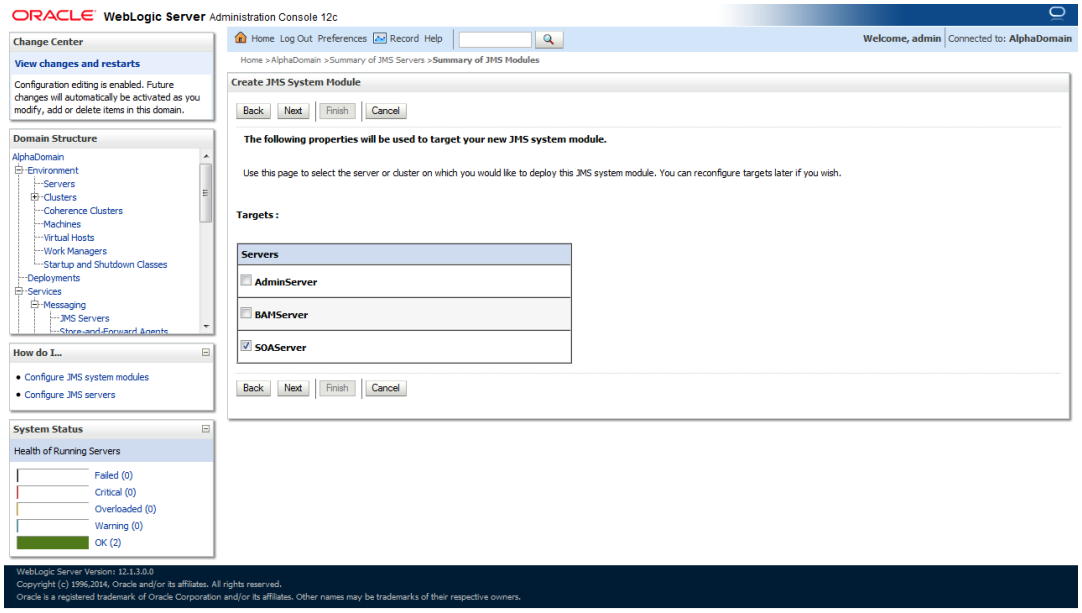
Figure 1-29 Create JMS System Module



8. Select the **Target** as **SOAServer** and click on **Finish**.

   The **Create JMS System Module - Select Target** screen is displayed.

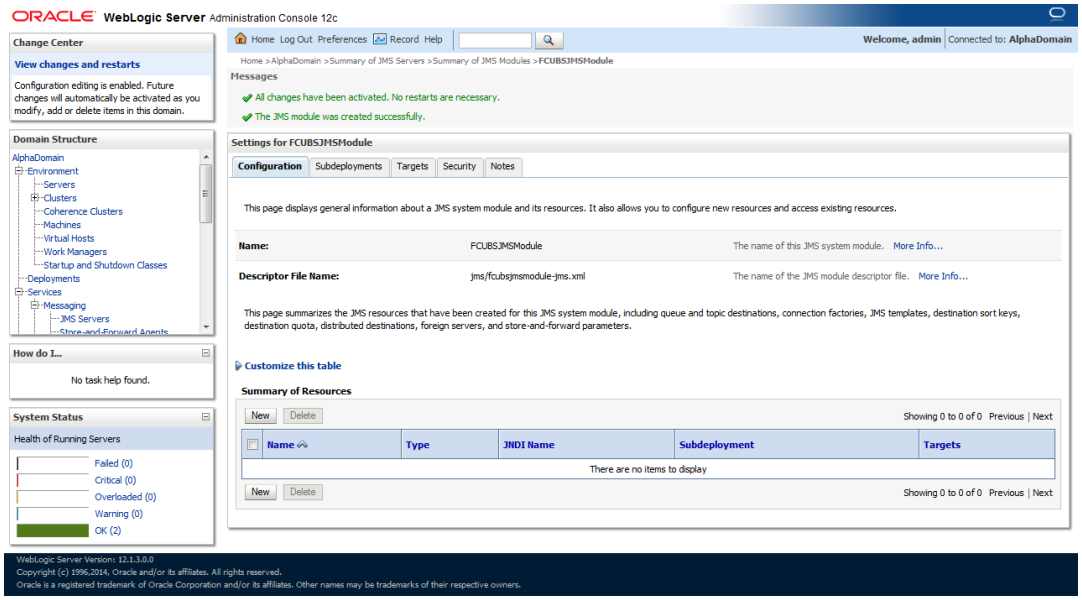
Figure 1-30 Create JMS System Module - Select Target



9. After the click on **Finish**, two messages are displayed on the **Summary of JMS Modules** screen.

   The **Summary of JMS Modules - Messages** screen is displayed.

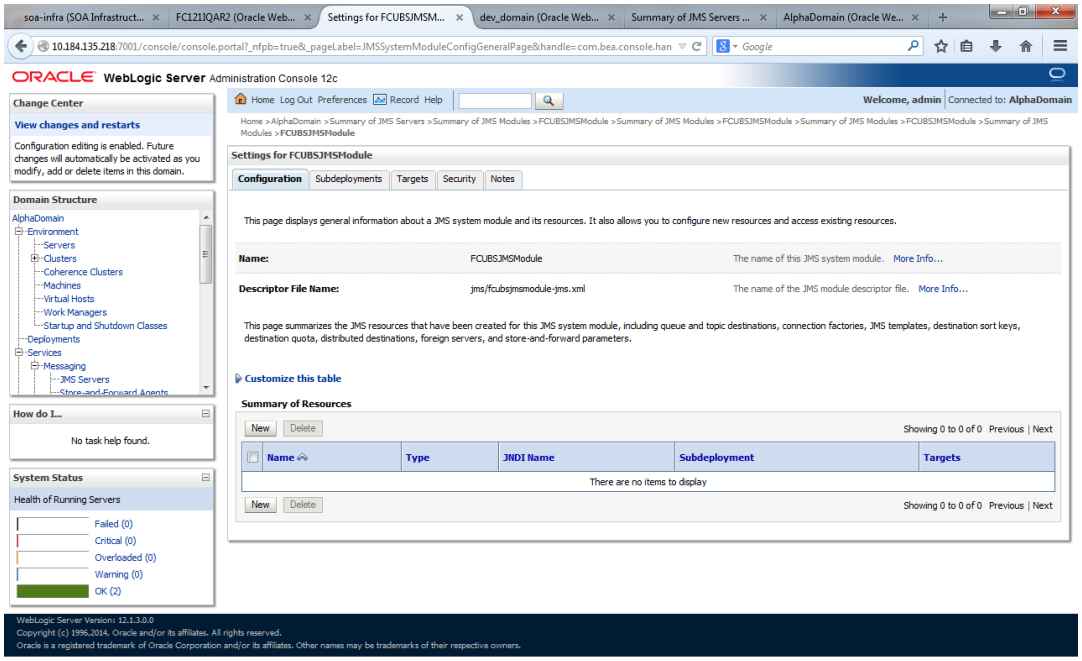
Figure 1-31 Summary of JMS Modules - Messages



10. Go back to **JMS Modules**, click on **FCUBSJMSModule** and click **New**.

    The **Settings for FCUBSJMSModule** screen is displayed.

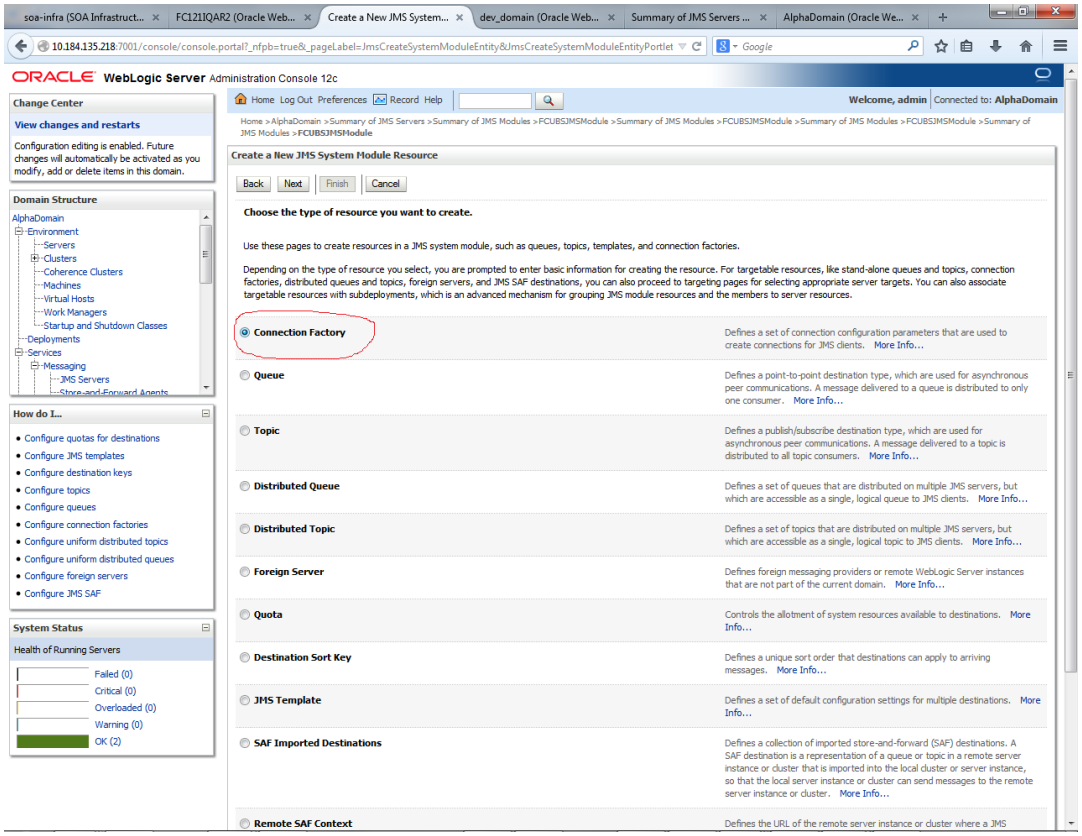
Figure 1-32 Settings for FCUBSJMSModule



11. On the **Create a New JMS System Module Resource** screen, select **Connection Factory** and click **Next**.

    The **Create a New JMS System Module Resource** screen is displayed.

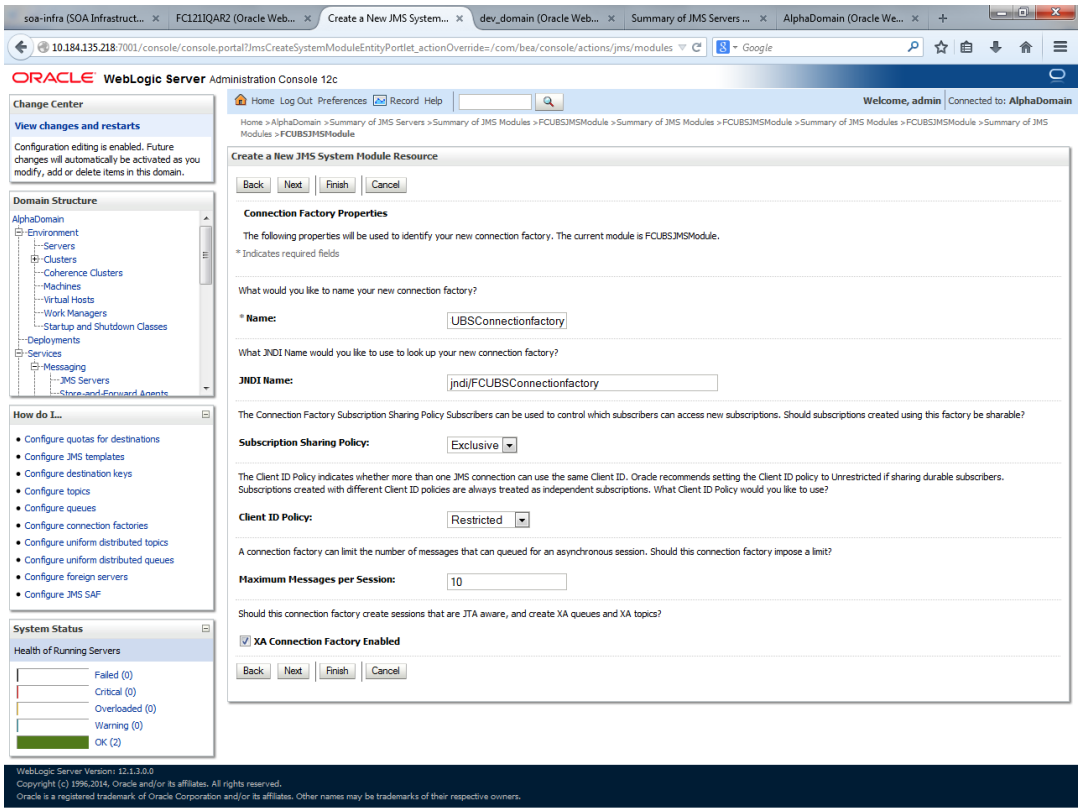
Figure 1-33 Create a New JMS System Module Resource



12. Create the the connection factory with the below Names and click **Next**.

    The **Connection Properties** screen is displayed.

Figure 1-34 Create a New JMS System Module Resource - Connection Properties



13. Select **Advanced Targeting**, click on **Create New Sub Deployment** with the below Name, and click **OK**.

    The **Create a New JMS System Module Resource - Advanced Targeting** screen is displayed.

Figure 1-35 Create a New JMS System Module Resource - Advanced Targeting

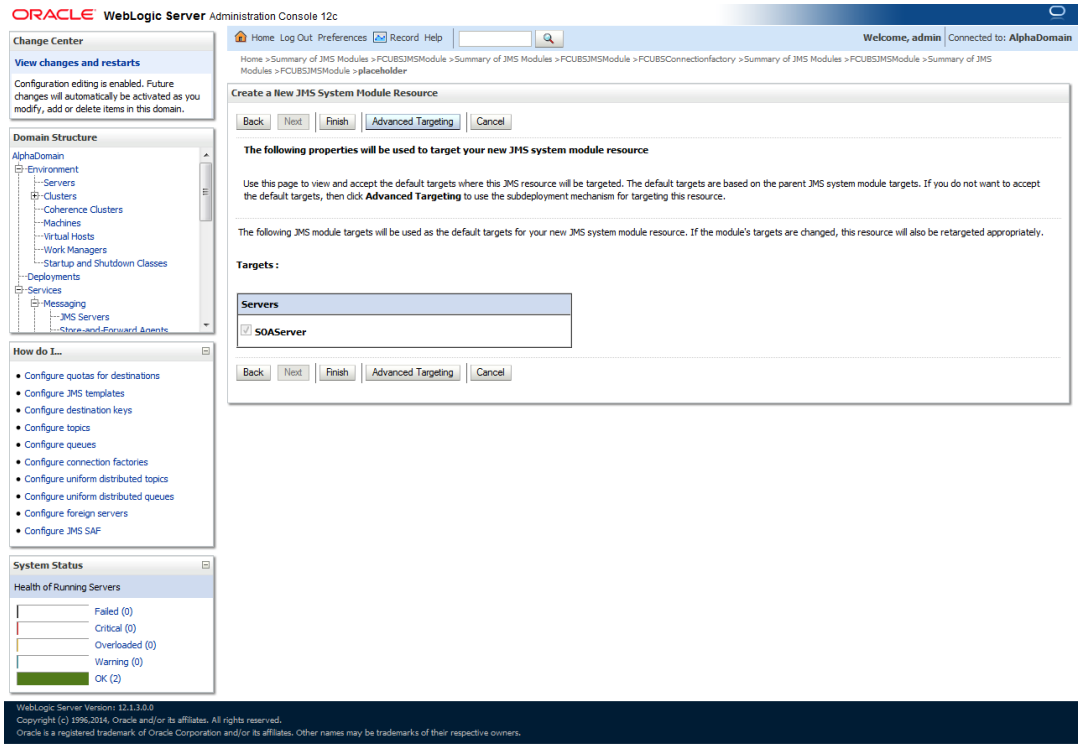


Figure 1-36 Create a New Subdeployment

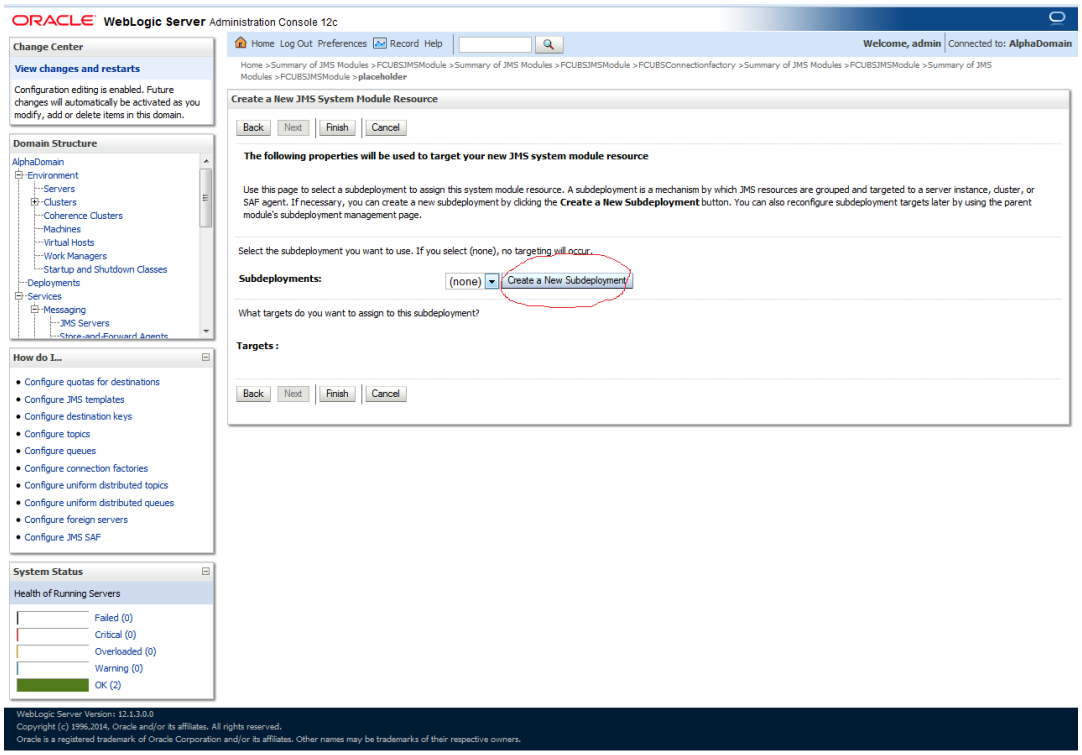


Figure 1-37 Create a New Subdeployment - Subdeployment Properties

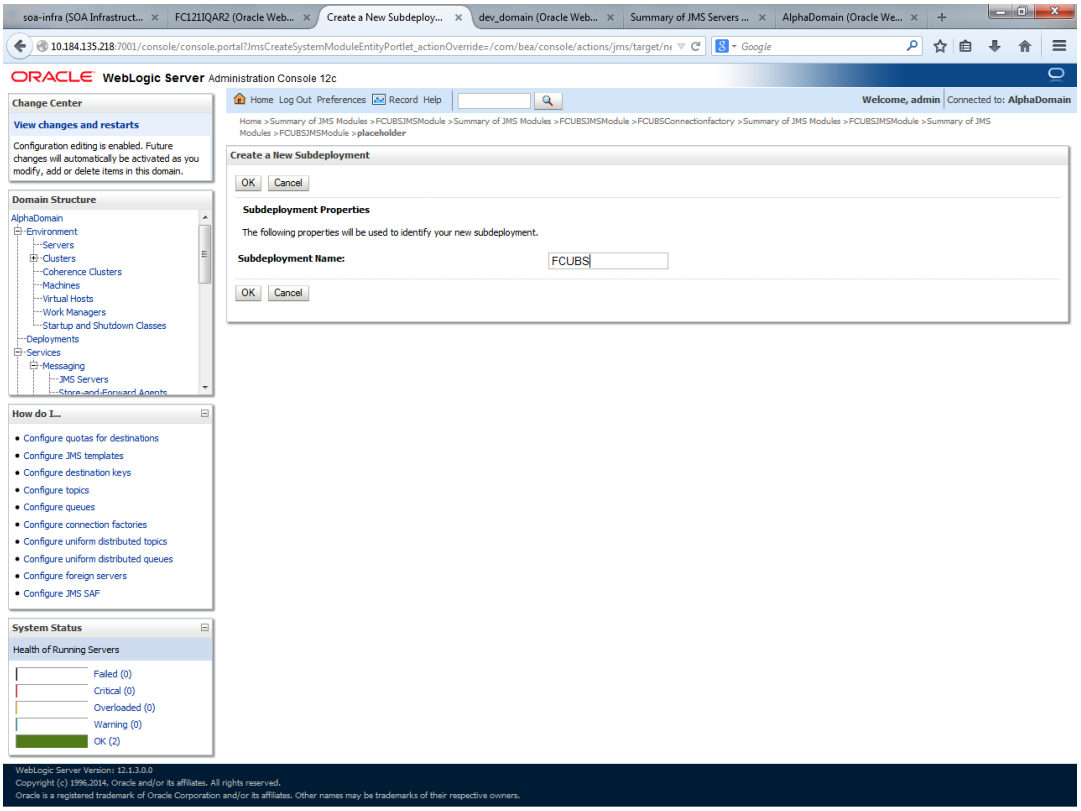
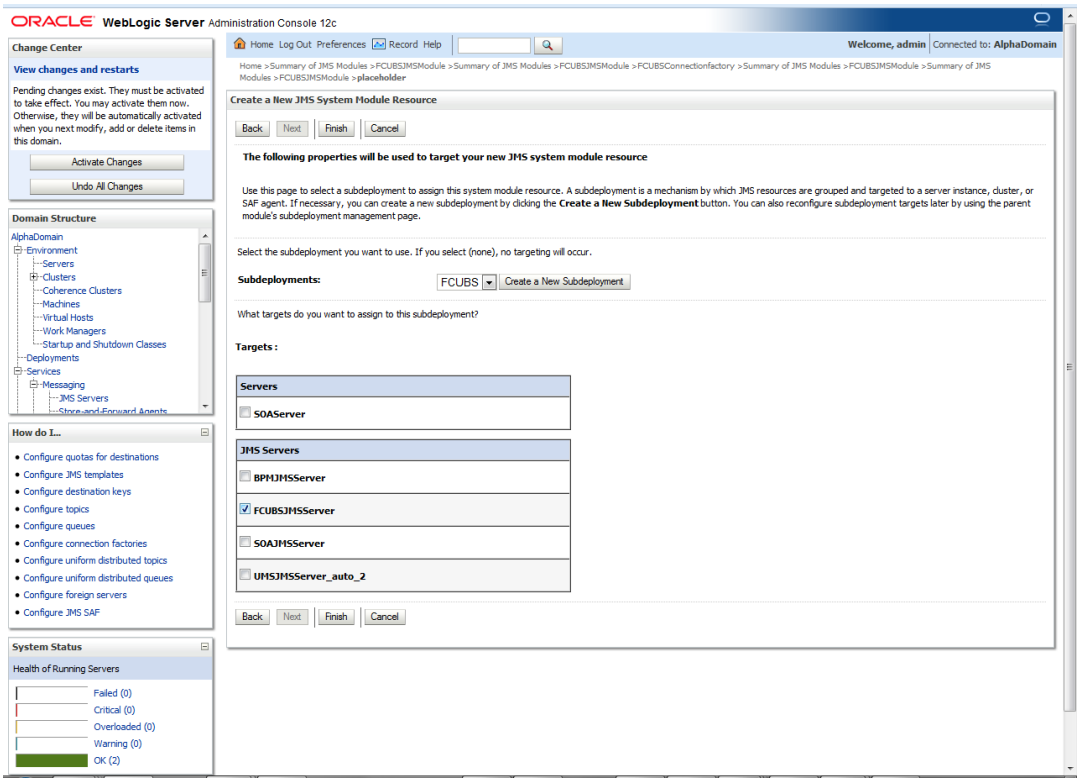


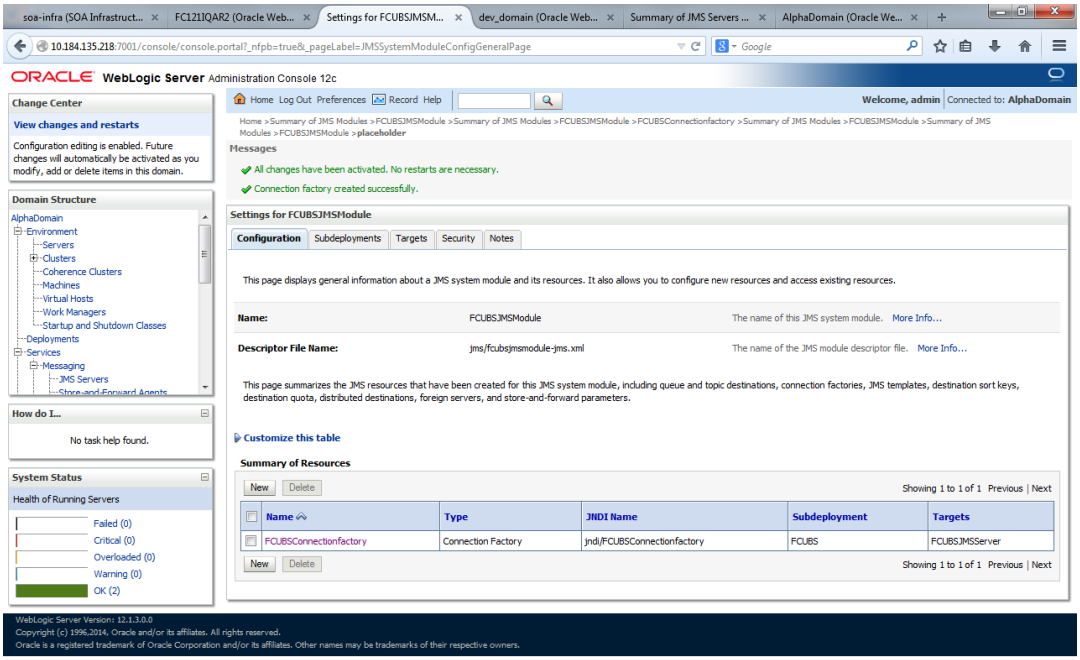
Figure 1-38 Create a New Subdeployment - Targets



14. After the click on **Finish**, two messages are displayed on the **Settings for FCUBSJMSModule** screen.

    Settings for FCUBSJMSModule - Messages screen is displayed.

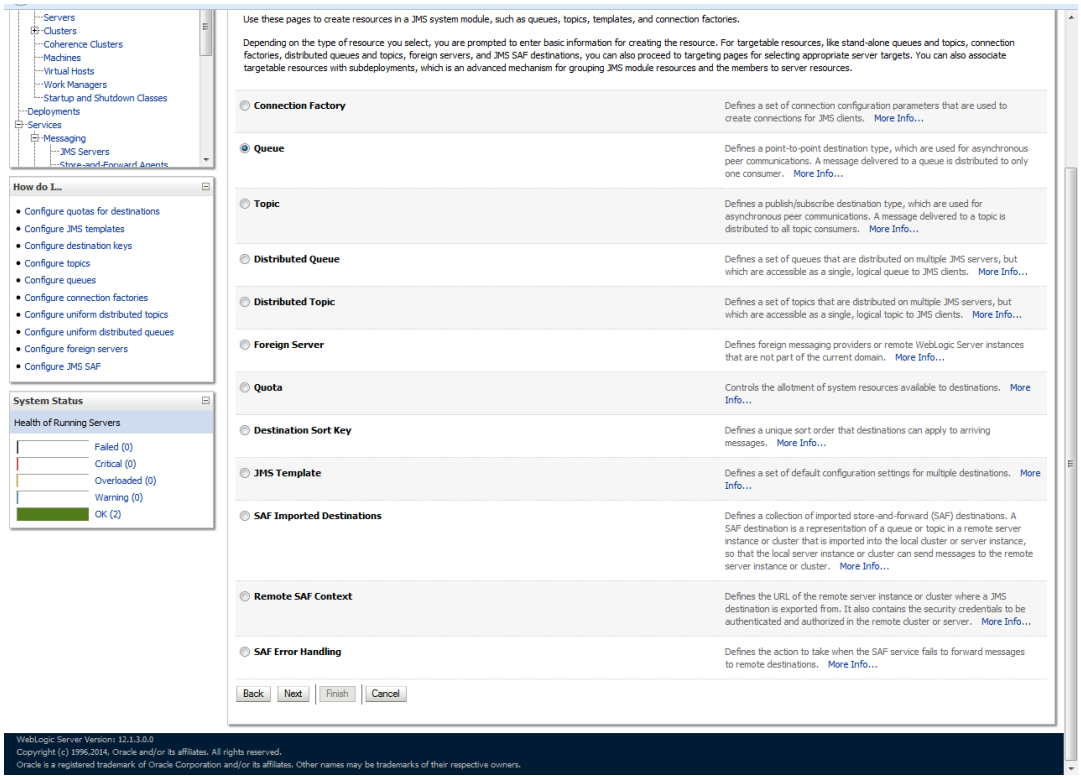
Figure 1-39 Settings for FCUBSJMSModule - Messages



15. Go back to **Weblogic Console**, click on **JMS Modules**, click **New**, then select **Queue**, and click on **Next**.

    The **Create Resources in JMS System Module - Queue** screen is displayed.

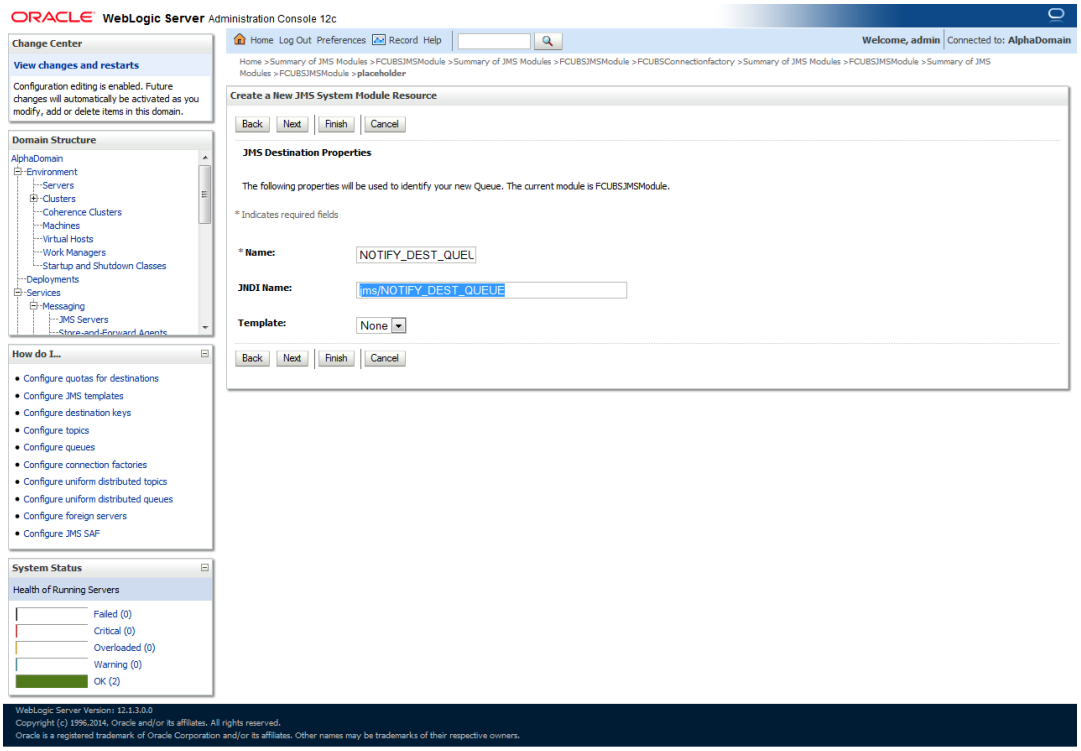
Figure 1-40 Create Resources in JMS System Module - Queue



16. Create Queue with **Name** as NOTIFY_DEST_QUEUE, **JNDI name** as jms/NOTIFY_DEST_QUEUE and click **Next**.

    The **JMS Destination Properties** screen is displayed.

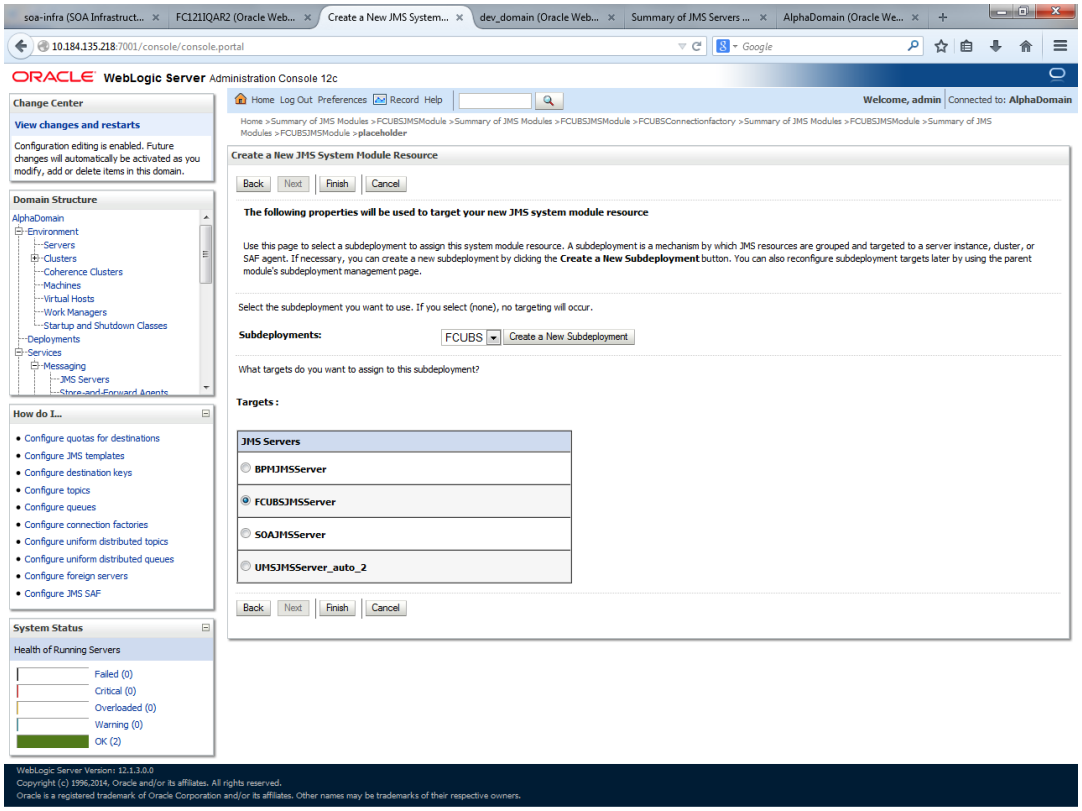
Figure 1-41 JMS Destination Properties



17. Select the **Subdeployments** from the dropdown list we created earlier, select the **Targets** as JMS Servers, and click on **Finish**.

    The **Subdeployments and Select Targets** screen is displayed.

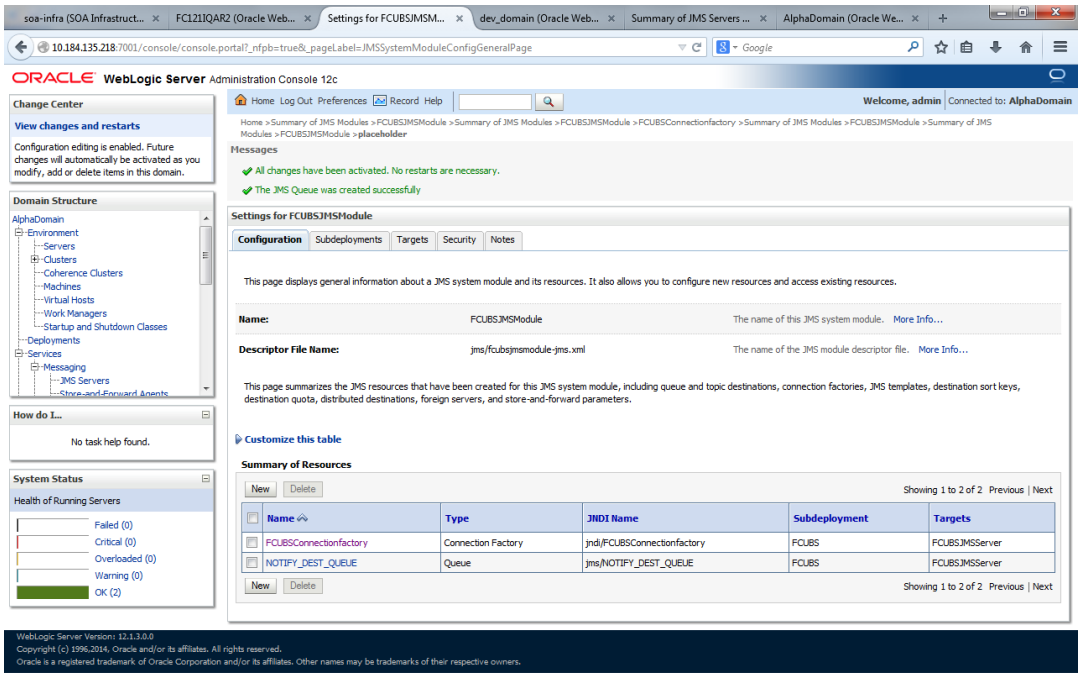
Figure 1-42 Subdeployments and Select Targets



18. After the click on **Finish**, two messages are displayed on the **Settings for FCUBSJMSModule** screen.

    Settings for FCUBSJMSModule - Messages screen is displayed.

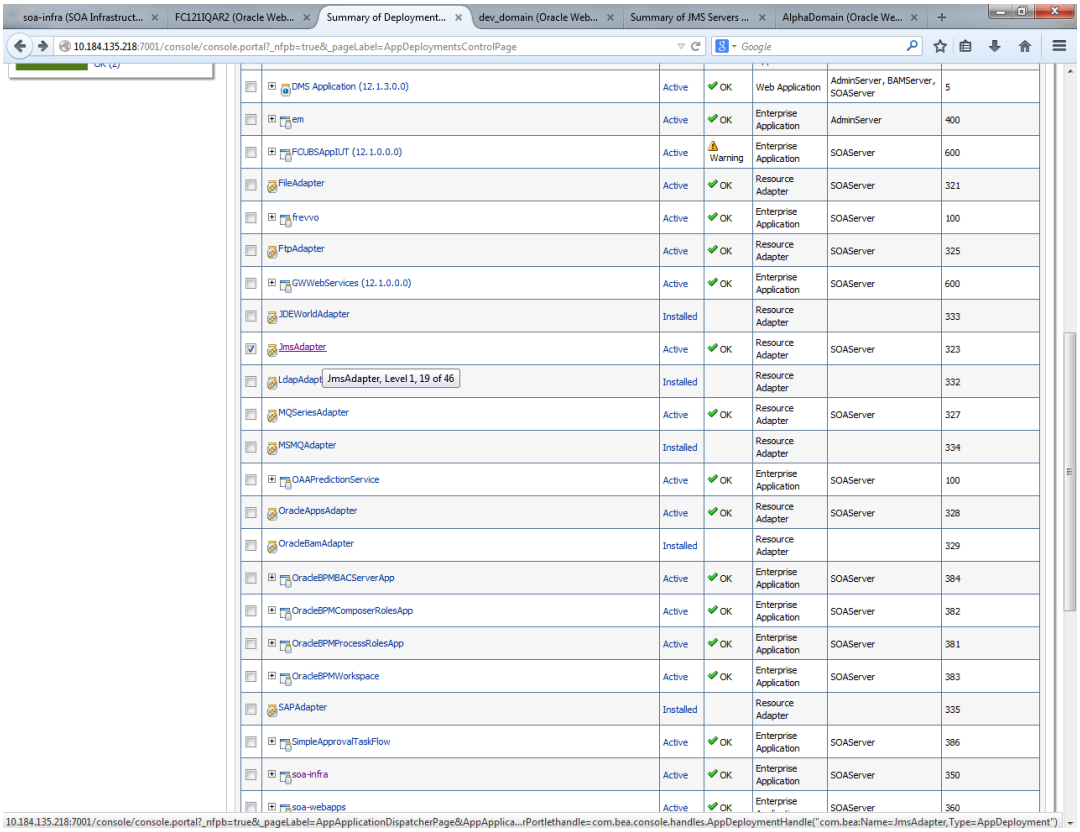
Figure 1-43 Summary of Resources - Messages



19. Create queue **MDB_QUEUE_RESPONSE** with JNDI name as **jms/MDB_QUEUE_RESPONSE**, queue **eis/jms/ORGateway** with JNDI name as **eis/jms/ORGateway**, and queue **FAULT_QUEUE_RESPONSE** with JNDI name as **jms/FAULT_QUEUE_RESPONSE** as above in console within FCUBSJMSModule.(Follow steps 8-9)
20. Go to **Weblogic Console**, click **Deployment**, and select **JMS Adapter**.
21. Click **Configuration** tab, select **Outbound Connection Pools**.

    The **Settings for JMSAdapter** screen is displayed.

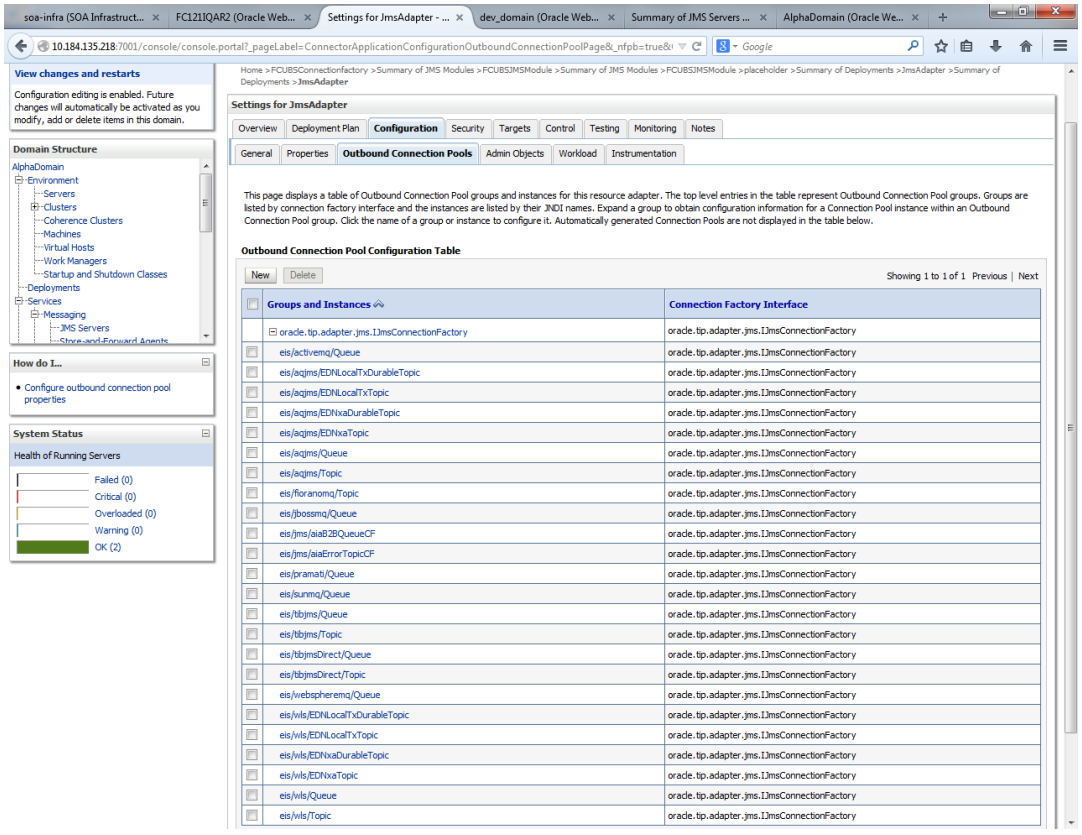
Figure 1-44 Settings for JMSAdapter



22. Click on **New**.

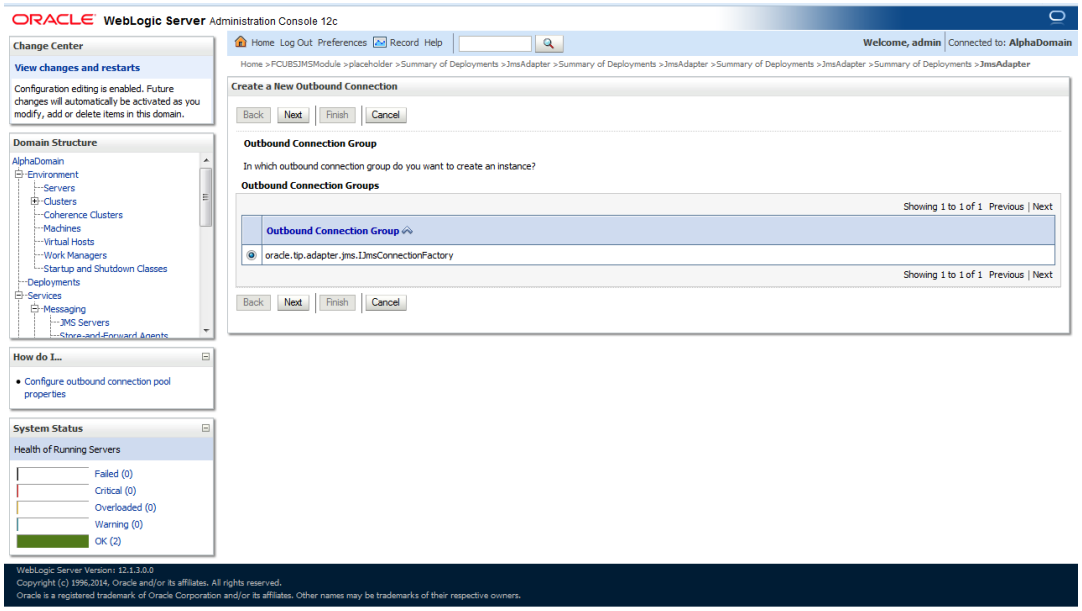
    The **Create a New Outbound Connection** screen is displayed.

Figure 1-45 Create a New Outbound Connection



23. Select the **Outbound Connection Group** and click **Next**.

Figure 1-46 Outbound Connection Group



24. Provide the JNDI name as **eis/Queue/Notif** and click **Finish**.

    The **Create a New Outbound Connection - JNDI Name** screen is displayed.

Figure 1-47 Create a New Outbound Connection - JNDI Name

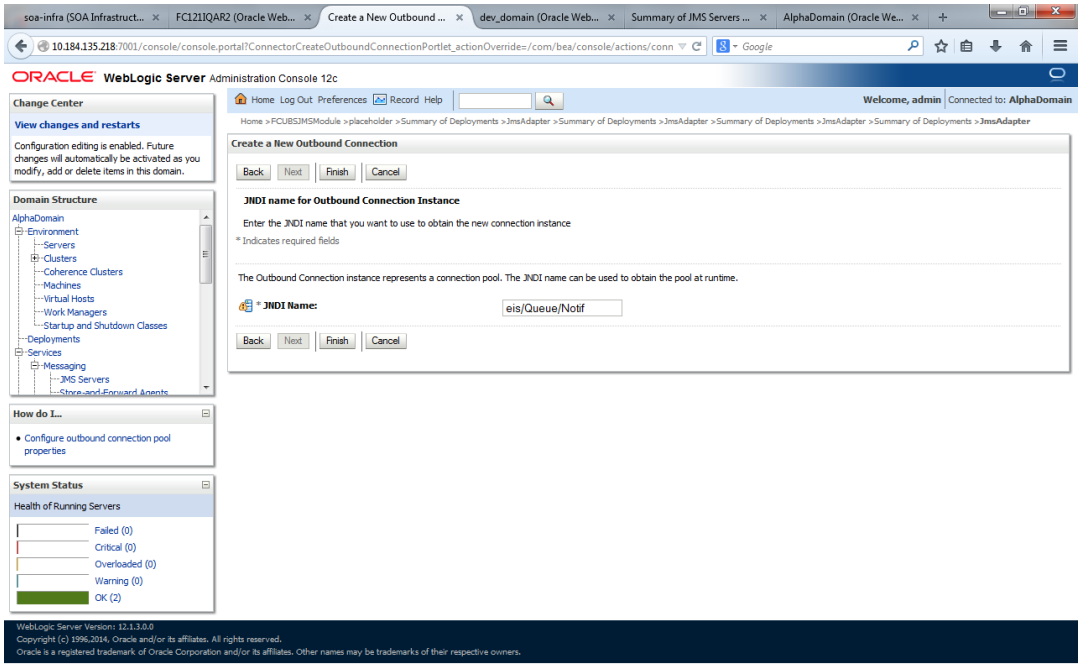
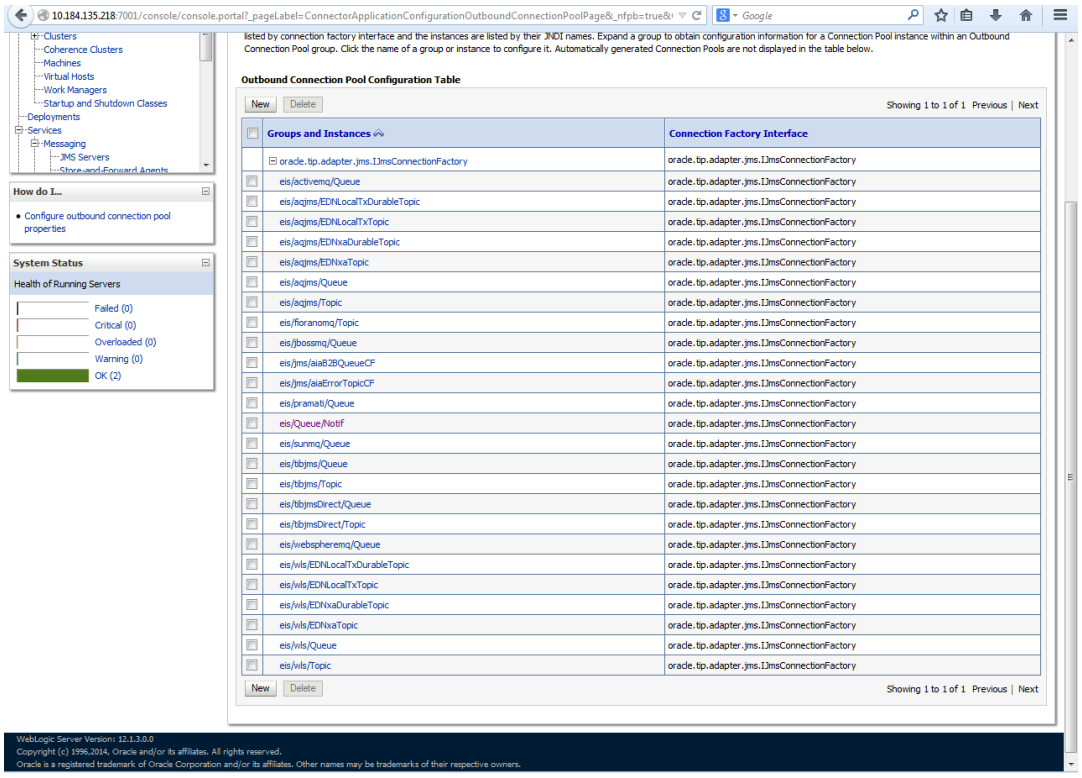


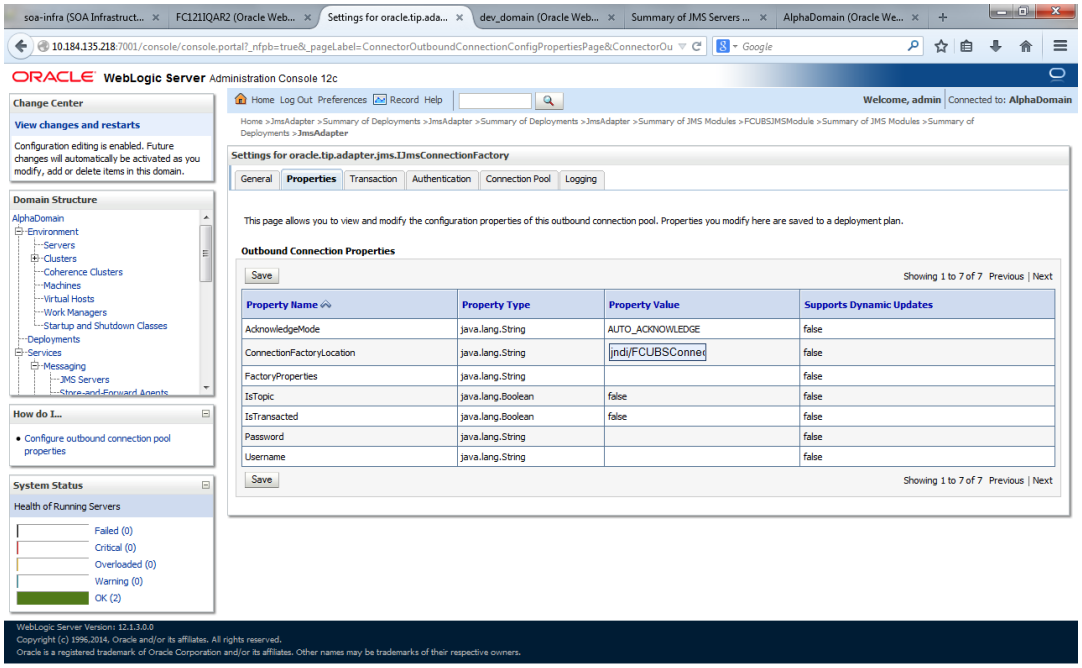
Figure 1-48 Outbound Connection Pool Configuration Table



25. Click on the Outbound connection pool with **eis/Queue/Notif** and enter the connection factory location as **jndi/FCUBSConnectionfactory**, and press enter.

    The **Settings for oracle.tip.adapter.jms.IJmsConnectionFactory** screen is displayed.

Figure 1-49 Settings for oracle.tip.adapter.jms.IJmsConnectionFactory

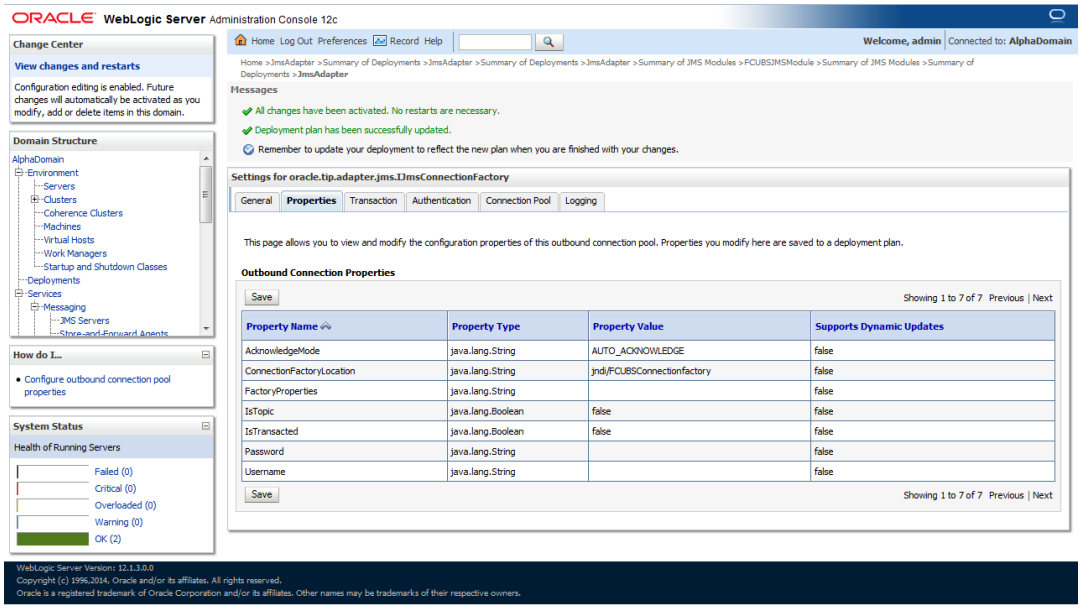


26. Click on **Save**.

27. After the click on **Save**, two messages are displayed on the **Settings for oracle.tip.adapter.jms.IJmsConnectionFactory** screen.

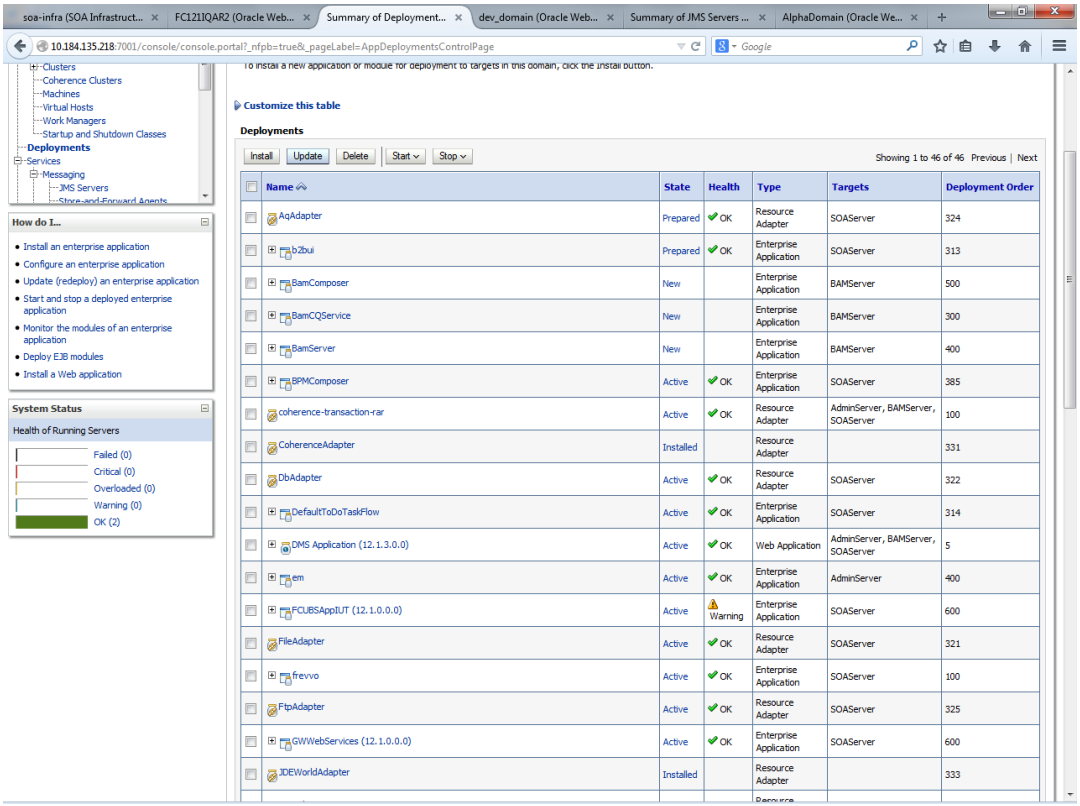
    Settings for oracle.tip.adapter.jms.IJmsConnectionFactory - Messages screen is displayed.

Figure 1-50 Settings for oracle.tip.adapter.jms.IJmsConnectionFactory - Messages



28. Go to **Weblogic Console**, click **Deployment**, and select **JMS Adapter**.

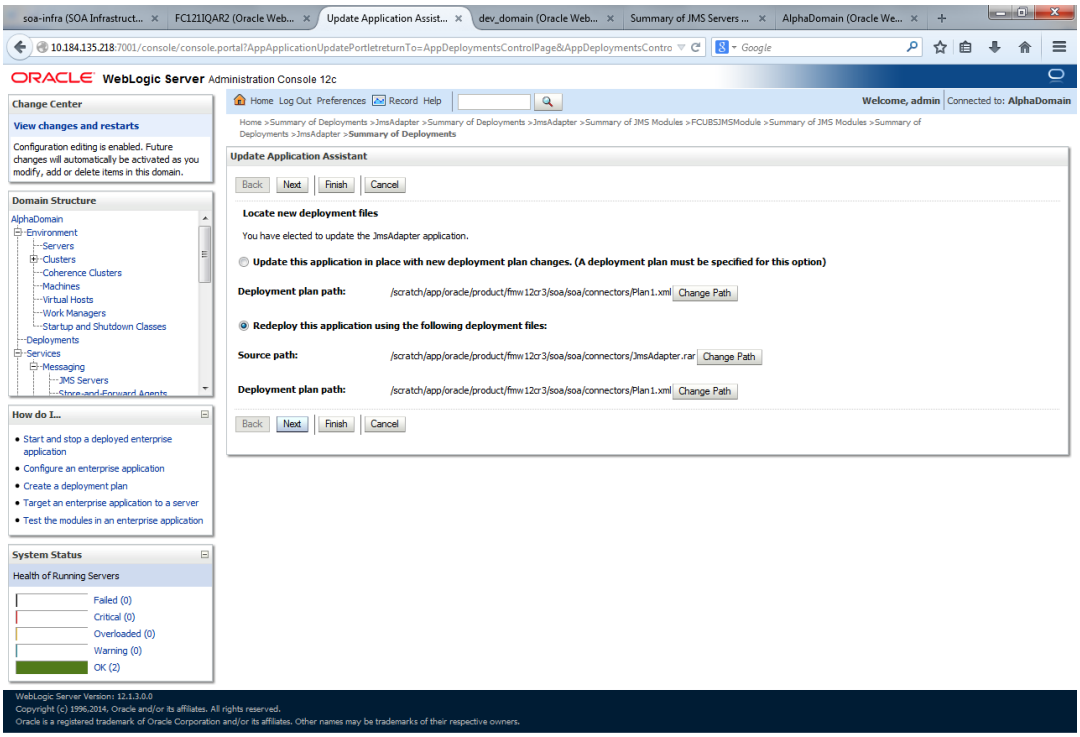
Figure 1-51 Deployments



29. Click on **Update**.

Update Application Assistant screen is displayed.

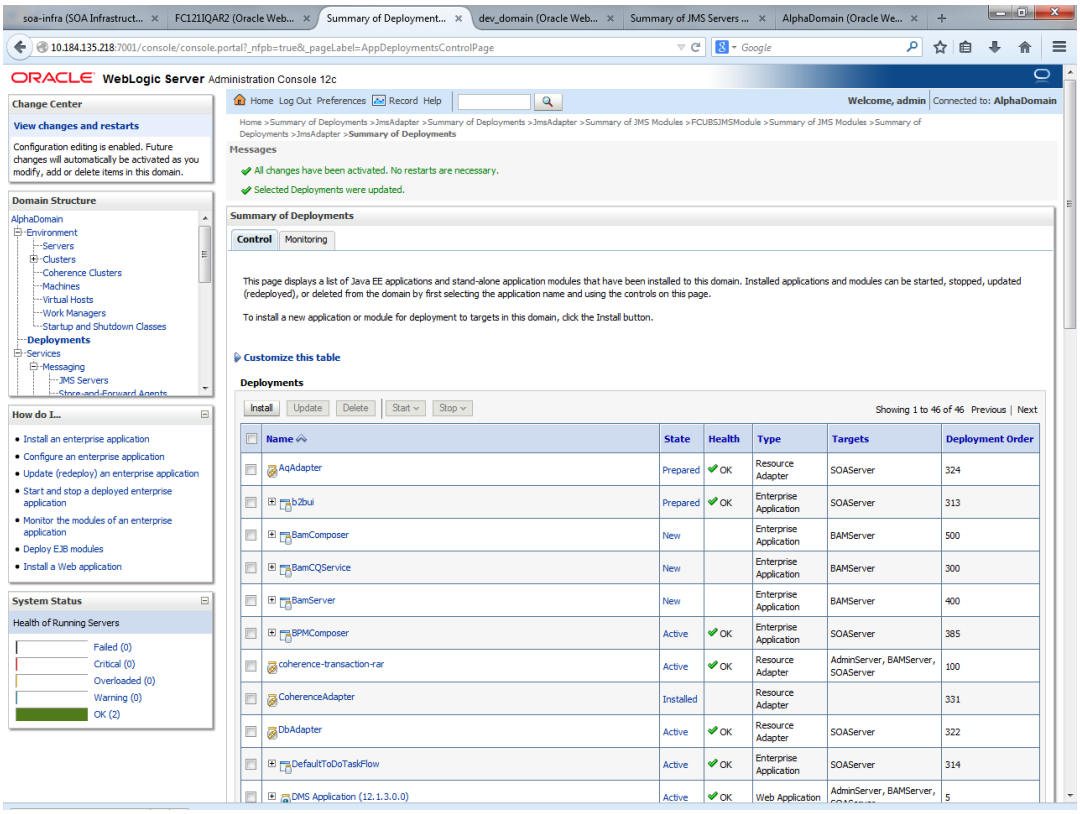
Figure 1-52 Update Application Assistant



30. Click on **Next** and **Finish**.
31. After the click on **Finish**, two messages are displayed on the **Summary of Deployments** screen.

    Summary of Deployments - Messages screen is displayed.

Figure 1-53 Summary of Deployments - Messages



32. Create the Outbound Connection Ppool with the **eis/wls/Queue** name in the Deployments using Connection Factory **jndi/FCUBSConnectionfactory**.

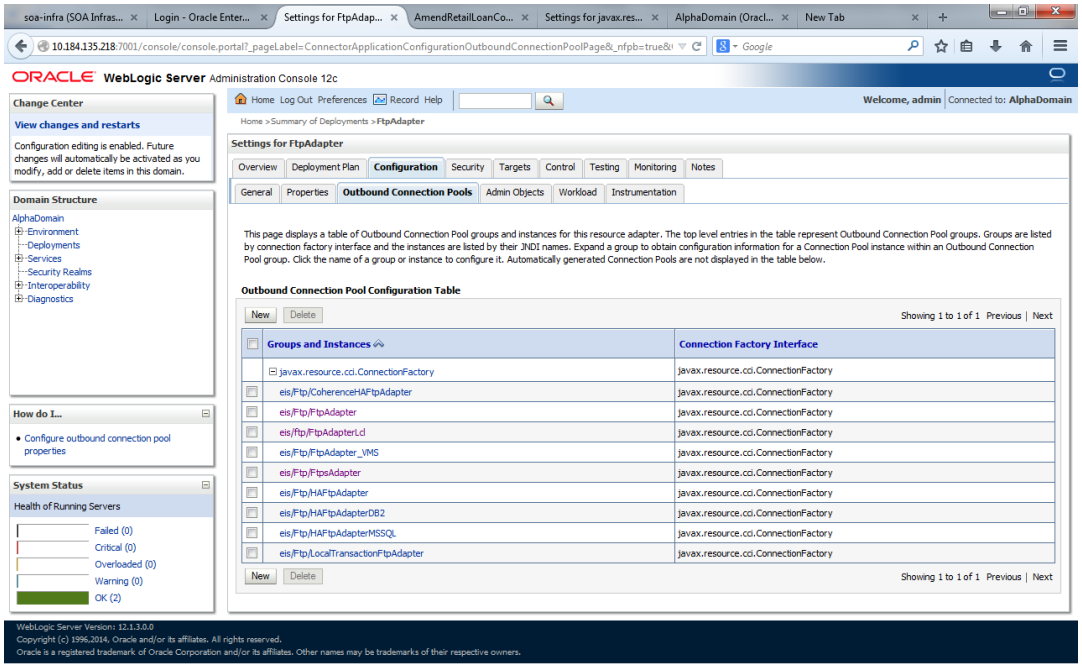
1.2.7 Configure FTP Adapter

This topic explains to configure FTP Adapter.

1. Login to **Weblogic Console**, click **Deployment**, and select **FTP Adapter**.
2. Click the **Configurations** tab and select **Outbound Connections Pool**.

   The **Outbound Connections Pool** screen is displayed.

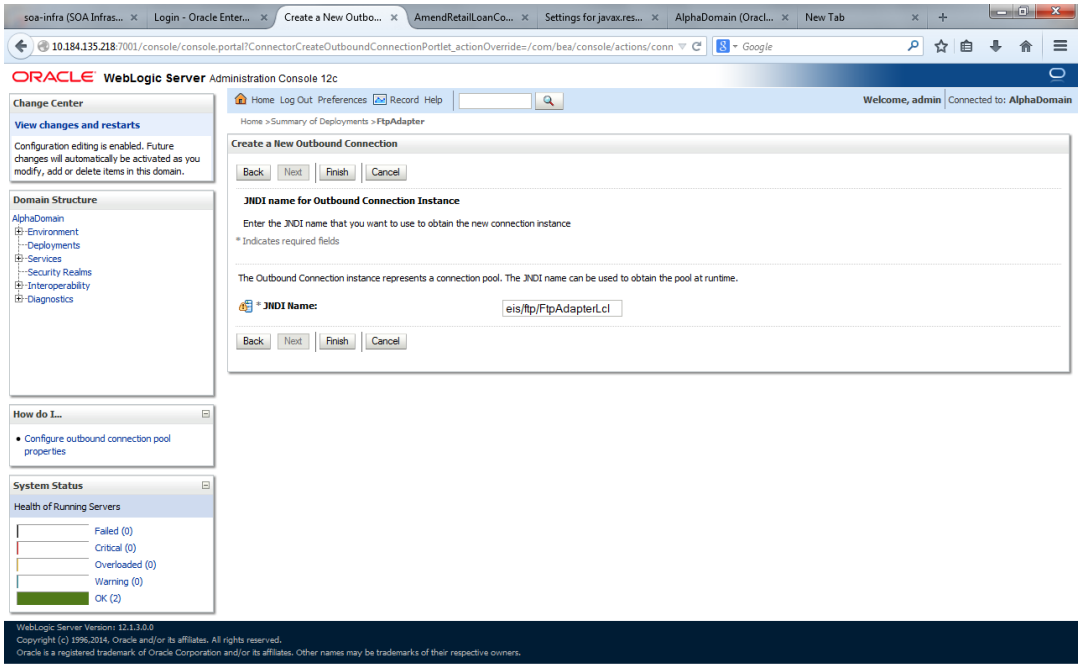
Figure 1-54 Outbound Connections Pool



3. Click on **New**.

   The **Create a New Outbound Connection** screen is displayed.

Figure 1-55 Create a New Outbound Connection



4. Click on **Finish** and **Save**.

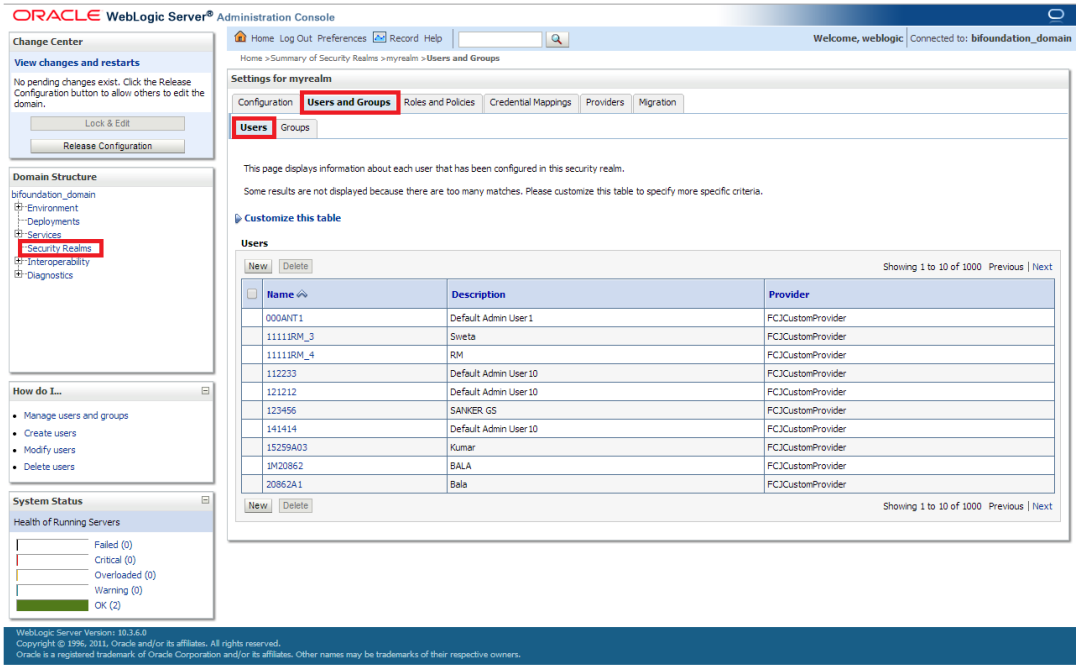
1.2.8 BIP Interactive reports configuration

This topic explains the configuration of BIP Interactive Reports.

1. Login to the BIP domain console, `http/s://<hostname>:<port>/<console>`.
2. To add the FCJCustomProvider, refer the steps from /Custom Provider Configuration.
3. After adding, navigate to security **realms**, then **myrealm**, and then **Users and Groups** and check if the users from the schema are displayed in the **Users** tab, and Roles from the schema are displayed under the **Groups** Tab.

   The **Users and Groups** screen is displayed.

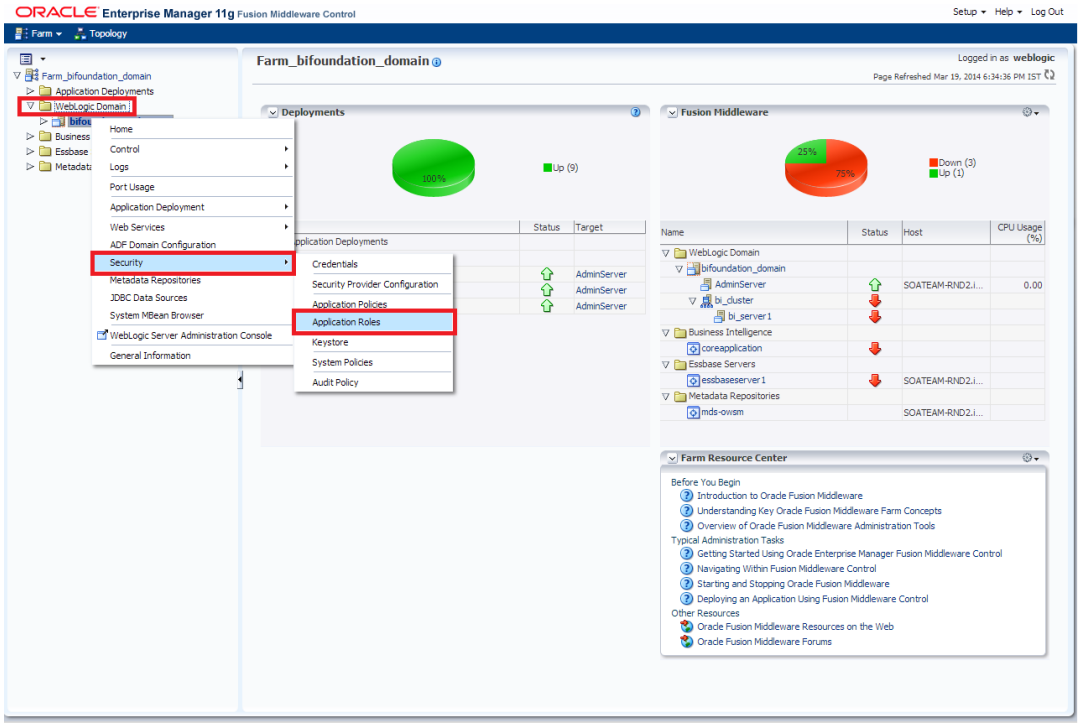
Figure 1-56 Settings for myrealm - Users and Groups



4. Login to the Enterprise Manager (em) `http/s:<hostname>:<port>/em`.
   - Right click on the domain (in which BI suite is installed) under the WebLogic domain.
   - Go to security and then navigate to application roles.
5. Navigate to the **Application Roles** screen as mentioned in below screenshot.

   The **Application Roles** screen is displayed.

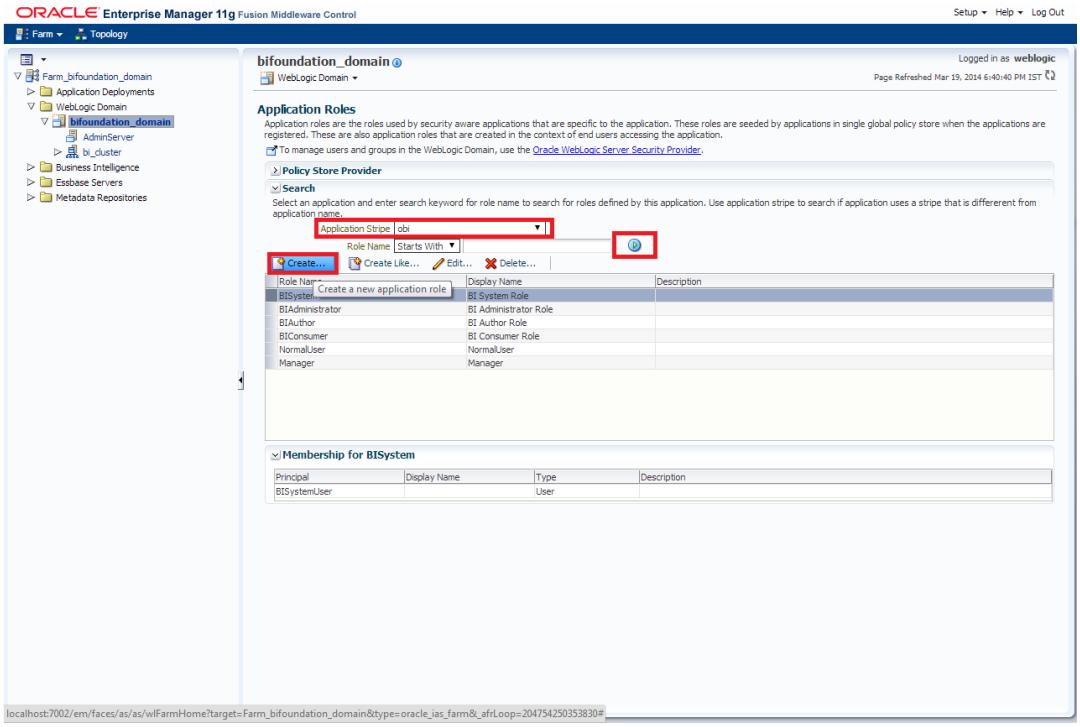
Figure 1-57 Application Roles



6. After navigating to the **Application Roles** screen, specify the following details.
   - Select the Application Stripe as **obi** from the dropdown list.
   - Click on the **Search** button.
   - Click on **Create** button to add a role.
7. After clicking on **Create** button, specify the fields.

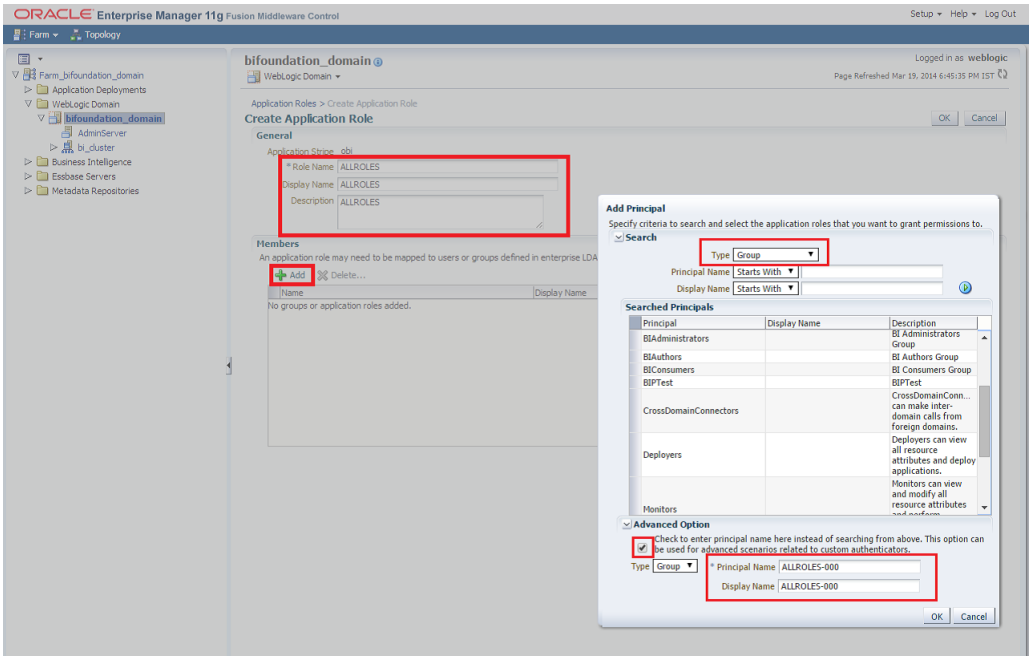
   The **Create Application Role** screen is displayed.

Figure 1-58 Create Application Role



8. On the **Create Application Role** screen, specify the following details.
   a. Enter the Role name (mandatory), Display name (optional) and, Description (optional).
   b. Click on the **Add** button.
   c. Select **Type** as **Group** from the dropdown list in the Add Principal pop-up window.
   d. In the **Advanced Option** check the checkbox and select the type as **Group** below
      - Click on the Search button, if the roles are listed then select the roles like ALLROLES-000, ADMINROLE-000 from the list.
      - Enter the Principal Name (mandatory), which is the role present in the FCUBS (ex: ALLROLES-000, ADMINROLE-000), Display Name (optional).
   e. Click on the **OK** button in the **Add Principal** pop-up window and also on the **Create Application Role** screen.

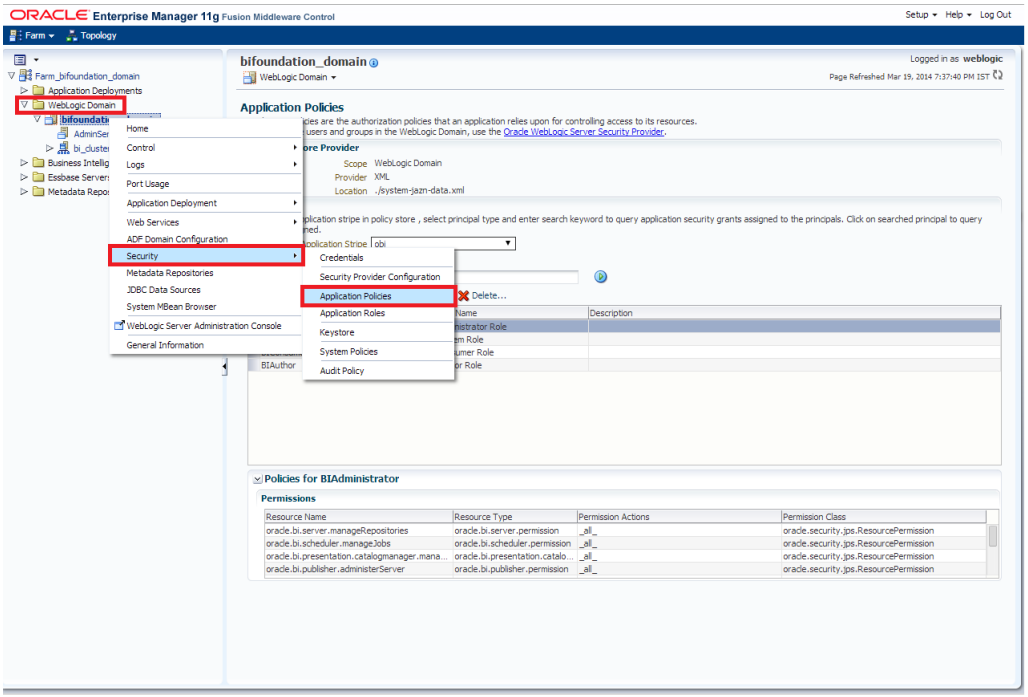
Figure 1-59 Create Application Role



9. After getting information message like **A new role added successfully**, then again:
   a. Right click on the domain (in which BI suite is installed) under the WebLogic domain.
   b. Go to Security and navigate to Application Policies.

   The **Navigation - Security - Application Policies** screen is displayed.

Figure 1-60 Navigation - Security - Application Policies



10. After navigating to the **Application Policies** screen, specify the following details.

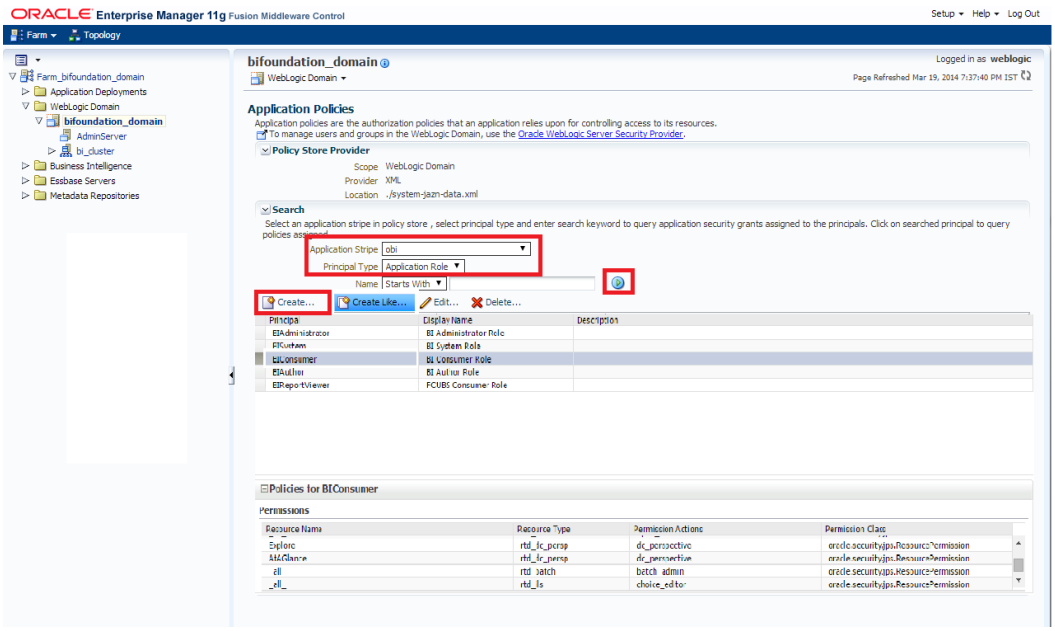
a. Select the **Application Stripe** as **obi** from the drop-down and **Principal Type** as **Application Role**.

b. Click on the **search** button.

c. Select BIConsumer (it should be highlighted) from the list and click on the **Create** button.

The **Application Policies** screen is displayed.

Figure 1-61 Application Policies

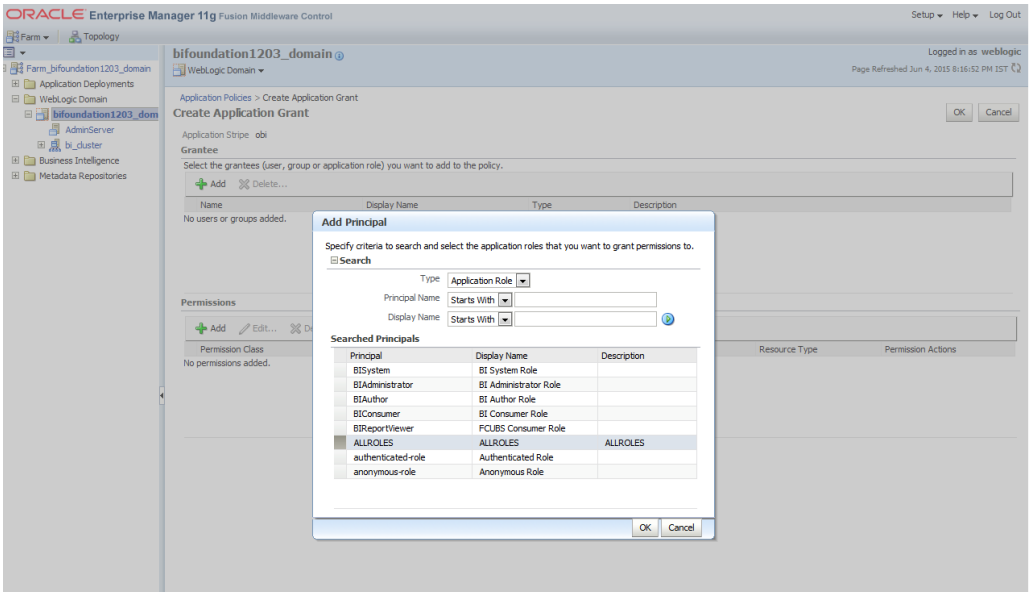


11. After navigating to the **Create Application Grant** screen,

a. Click on the **Add** button.

The **Add Principal** pop-up window is displayed.

Figure 1-62 Add Principal



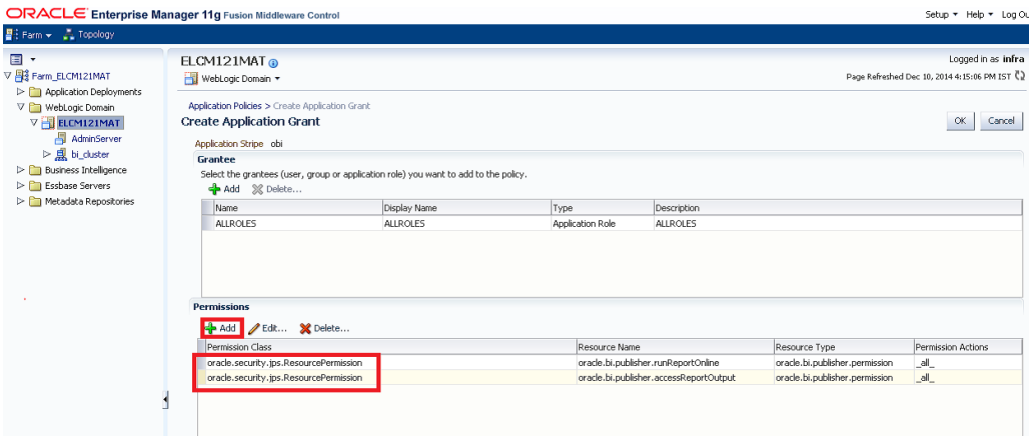
b. Select **Type** as **Application Role** from the dropdown list in the Add Principal pop-up window and click on the **search** (triangle icon instead of the word search TBD) button.

c. From the **Searched Principals** list, select **ALLROLES** that has been created earlier in the **Application Role** screen.

d. Click on the **OK** button in the **Add Principal** pop-up window and on the **Create Application Grant** screen.

The **Create Application Grant** screen is displayed.

Figure 1-63 Create Application Grant



e. Click on the **Add** button under **Permissions** and add the two permissions one by one as mentioned below.

- oracle.bi.publisher.runReportOnline
- oracle.bi.publisher.accessReportOutput

12. After getting information message as **A security added successfully**, then:

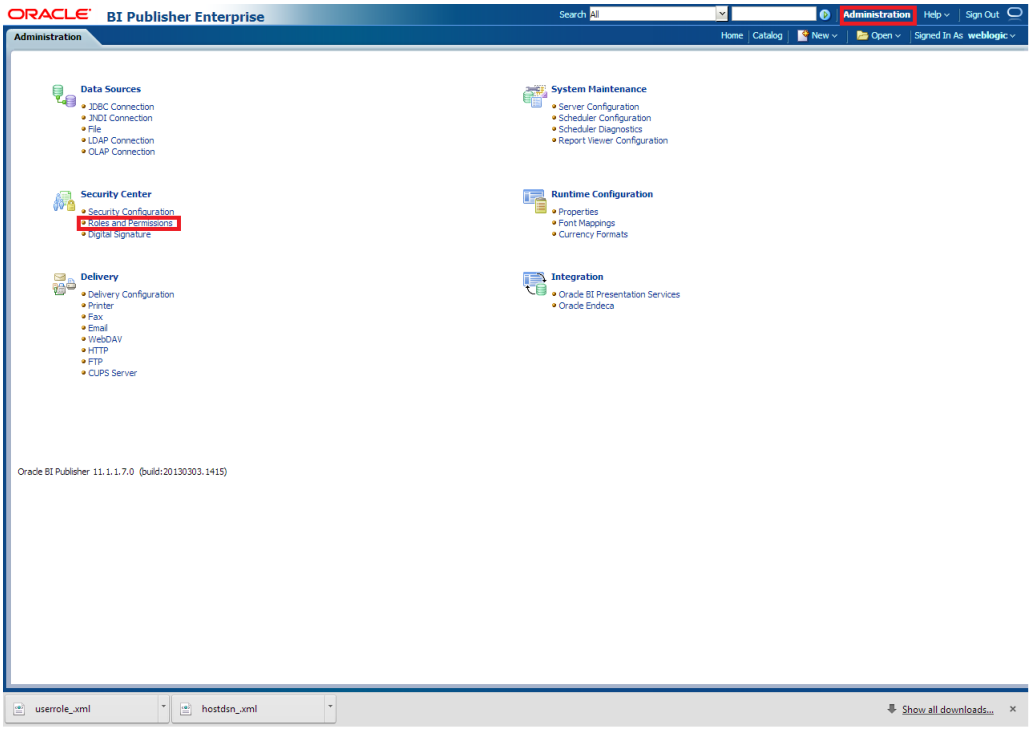
a. Login into the BIPublisher , http/s:<hostname>:<port>/xmlpserver.

b. Click on the **Administration**.

c. Click on the **Roles and Permission** under **Security Center** and check if the added role (in em) is displayed. If not, restart the servers.

The **BIPublisher - Administration** screen is displayed.

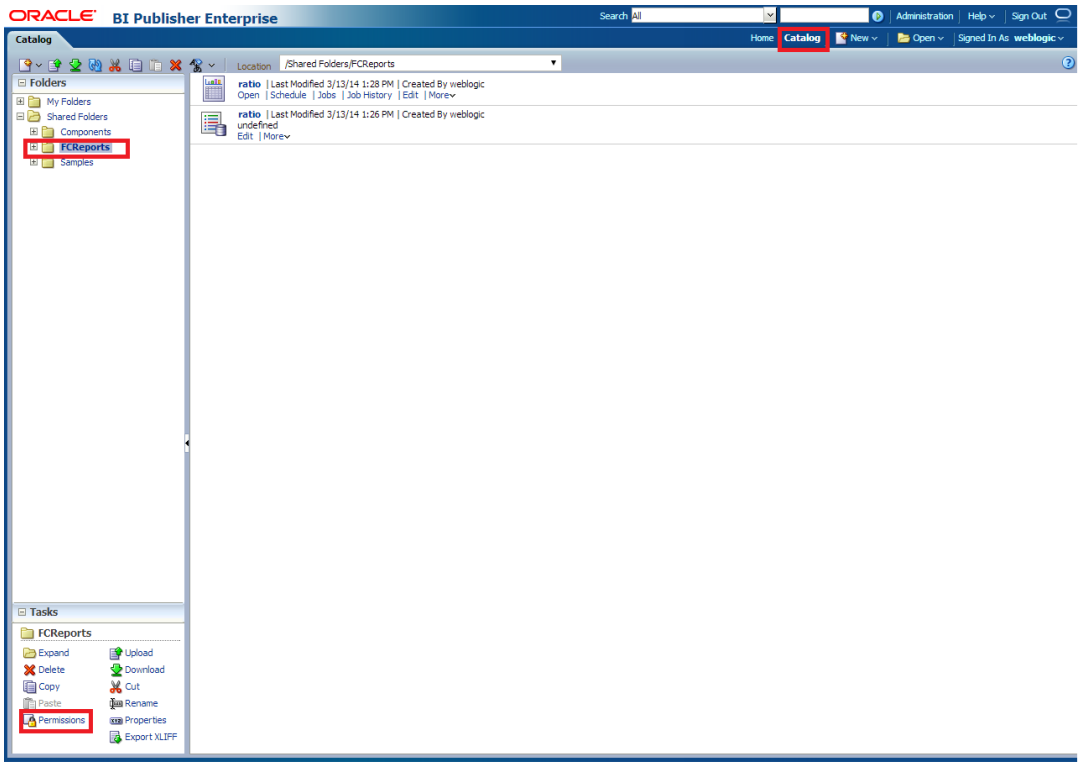
Figure 1-64 BIPublisher - Administration



13. Click on the **Catalog**, select the folder that has been created, and click on **Permissions** under the **Tasks**.

    BIPublisher - Catalog screen is displayed.

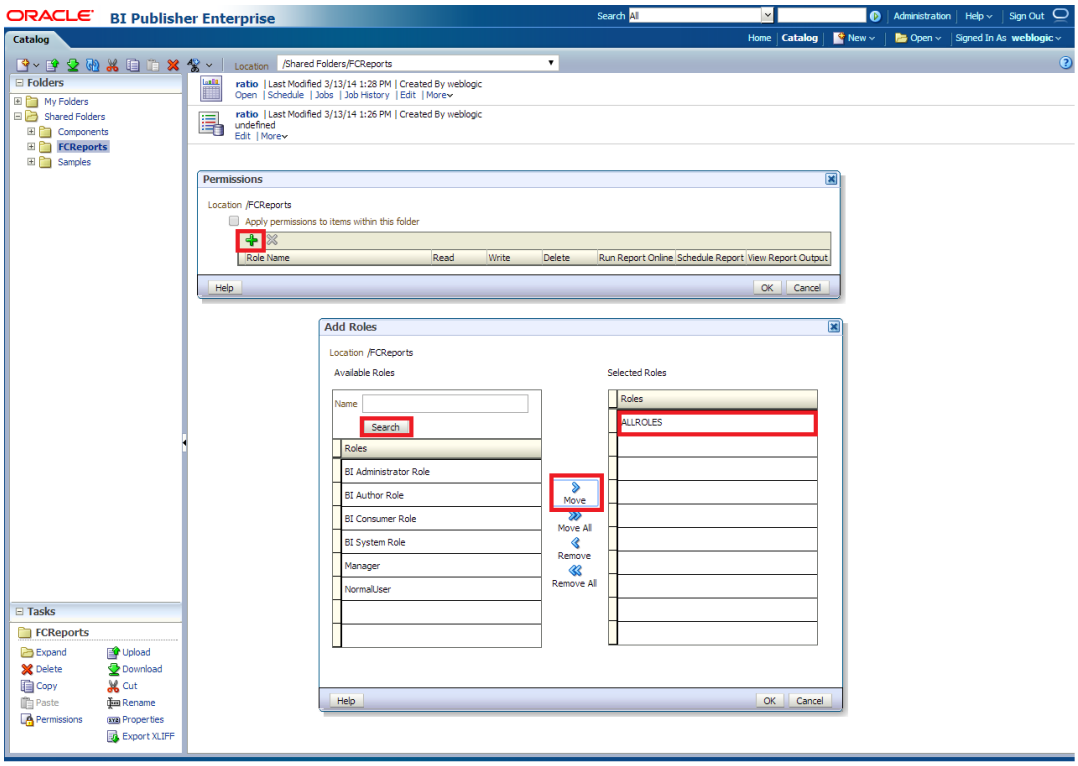
Figure 1-65 BIPublisher - Catalog



14. Click on the **Add** button.

    The **Add Roles** screen is displayed.

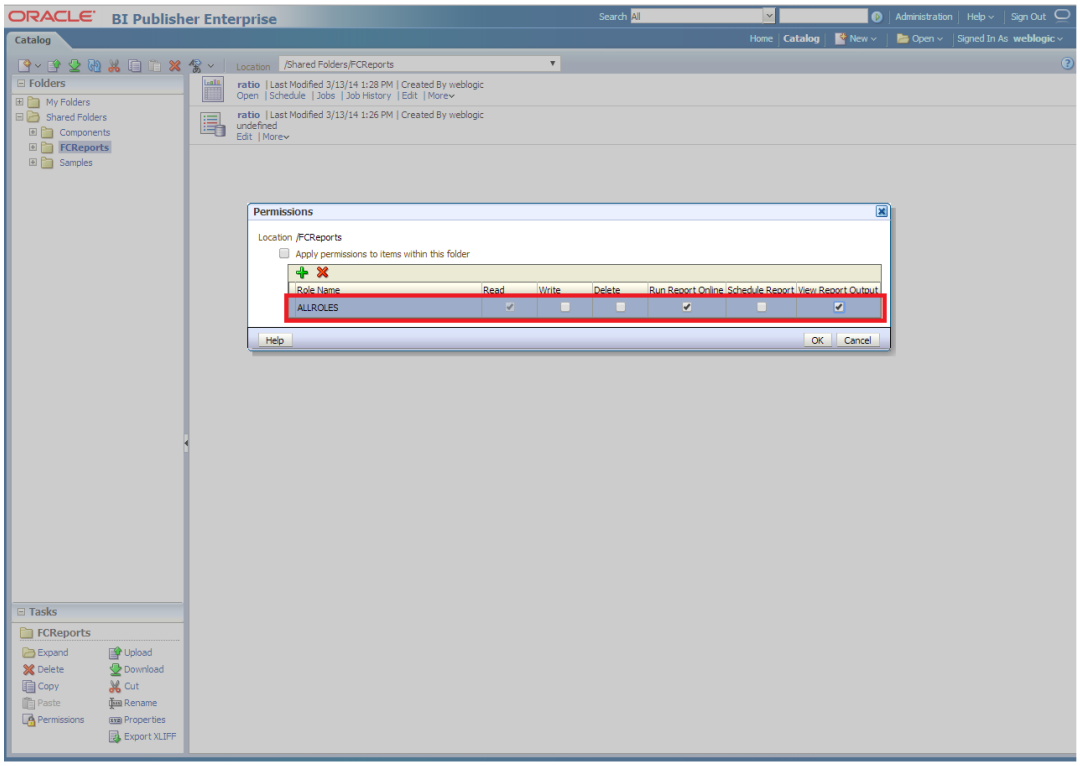
Figure 1-66 Add Roles - Permission



15. Click on the **Search** button in **Add Roles** pop-up window.
16. Select the role that has been created and click on the **Move** button and click on **OK**.
17. Finally, the role will be added, and select the options that have to be provided for the particular role and check if the permissions are only to items within the folder if necessary.

    The **Permissions** with added role is displayed.

Figure 1-67 Permissions - Added Role



18. Now the reports in the folder will be accessed accordingly based on the roles.

> **Note:**
>
> Similarly, we can set the permissions at the report level also for a particular role.

19. Login in to Bi Publisher http://server:port/xmlpserver.
20. Click on the **Administration**.

    The **Administration** screen is displayed.

Figure 1-68 Administration

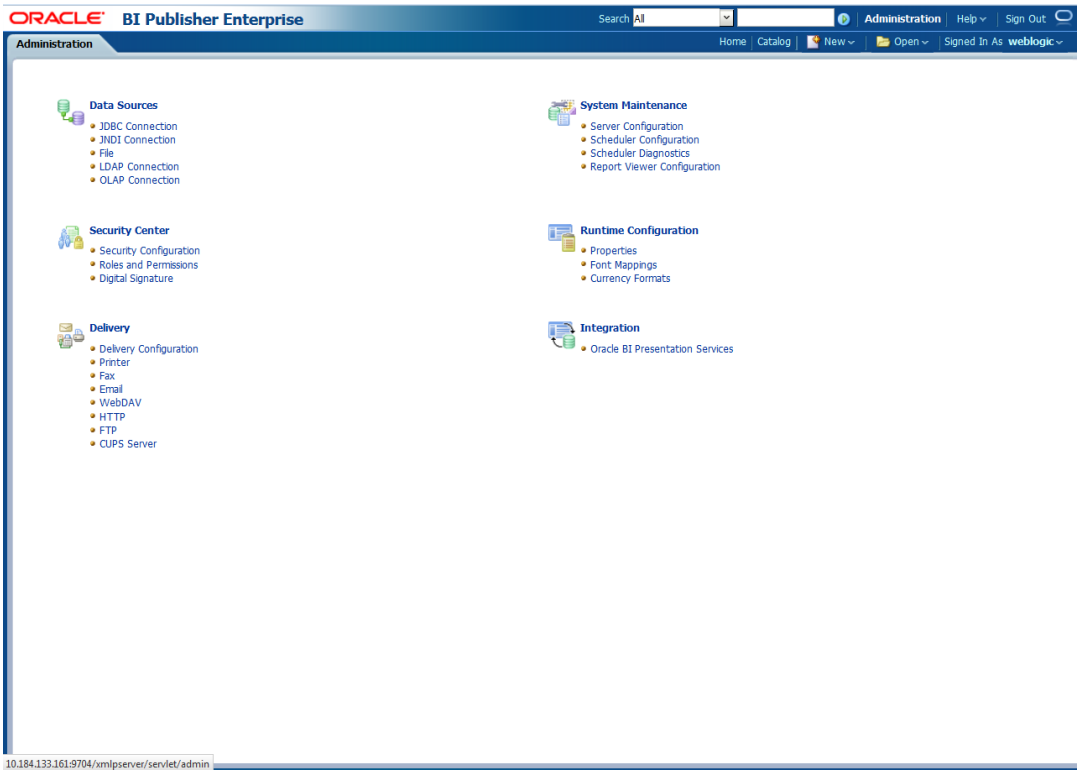
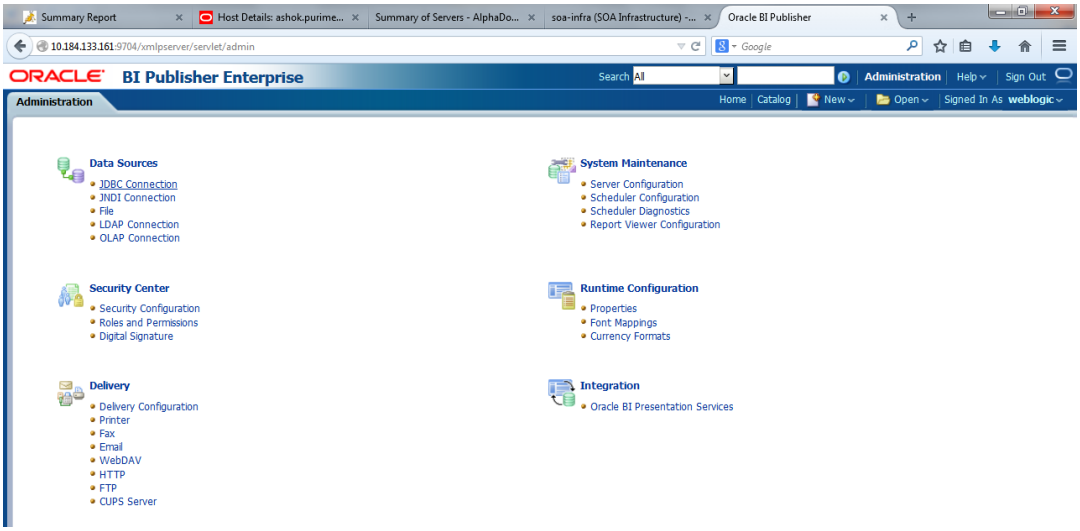


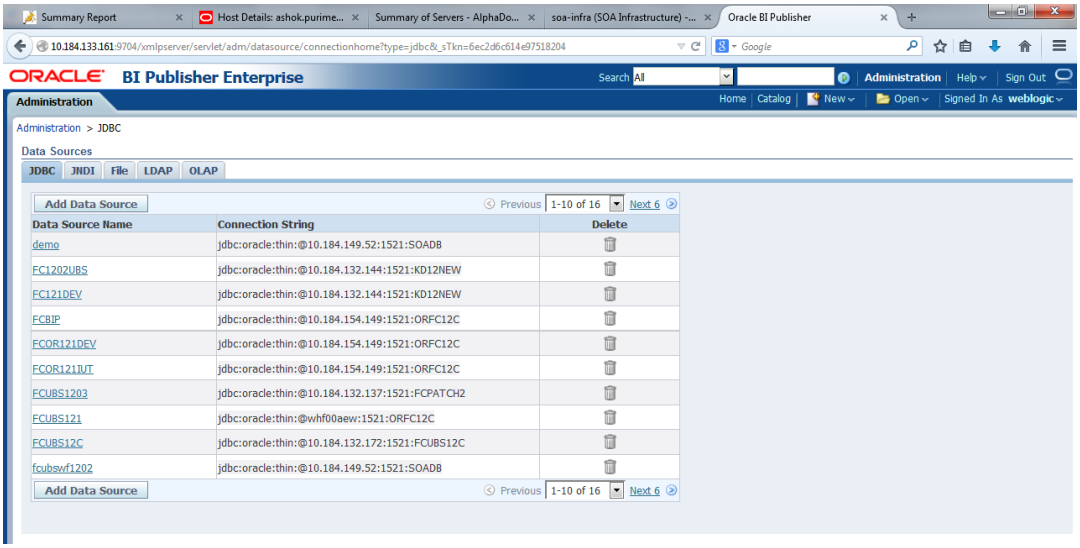
Figure 1-69 Administration - JDBC Connection



21. Under **Data Sources**, click on **JDBC Connection**.

    The **Administration - JDBC** screen is displayed.

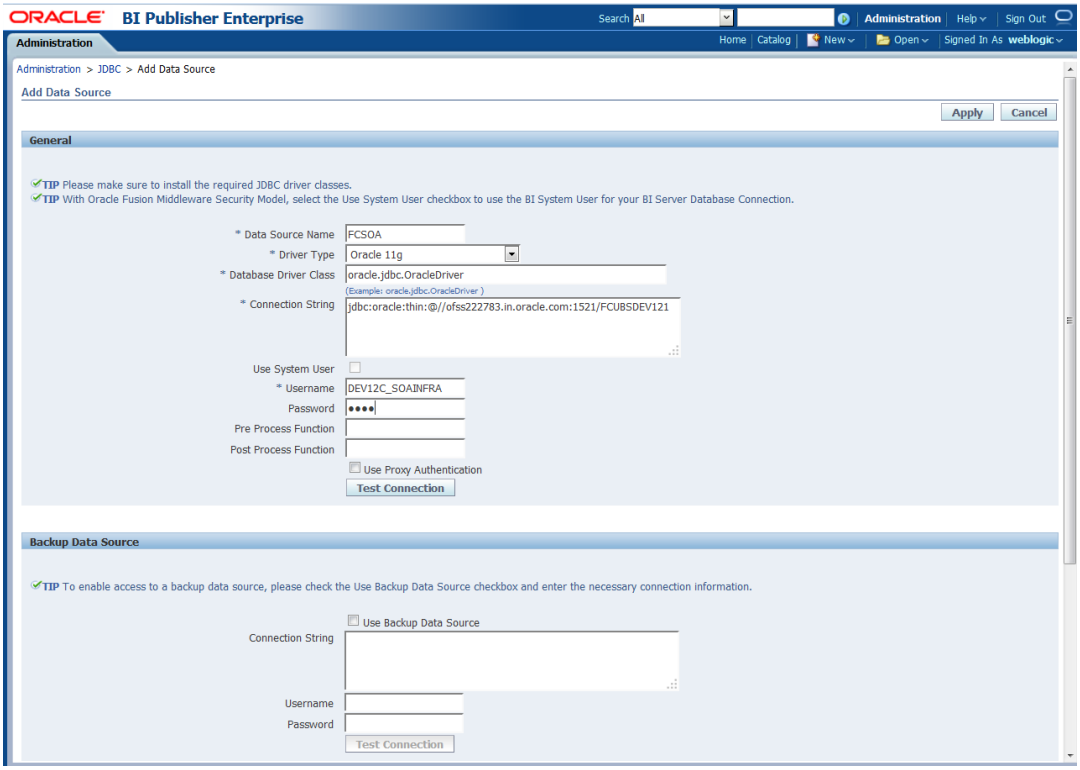
Figure 1-70 Administration - JDBC



22. Click on **Add Data Source** and create the data source with data source name as **FCSOA** and use soa schema details to create the same.

    The **Administration - JDBC - Add Data Source** screen is displayed.

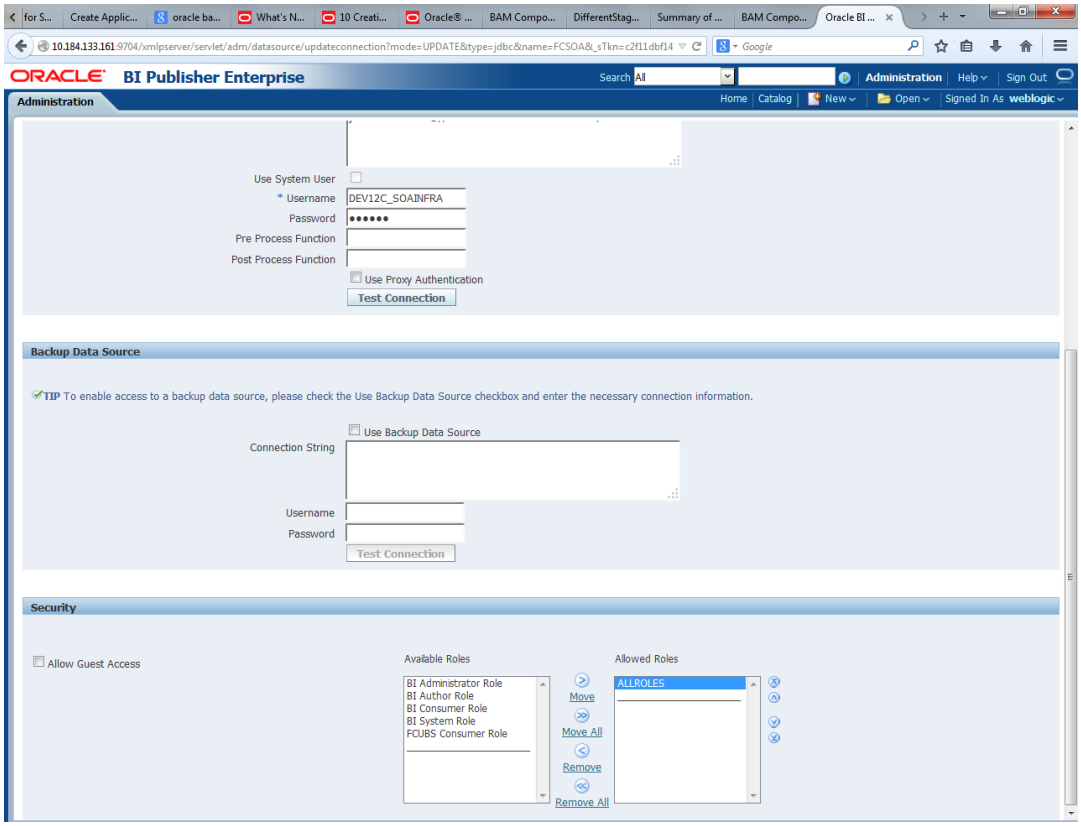
Figure 1-71 Administration - JDBC - Add Data Source



23. Add the FCIS roles to Allowed Roles under Security.

    Administration - JDBC - Add Data Source (Security) screen is displayed.

Figure 1-72 Administration - JDBC - Add Data Source (Security)



24. Click on the **Test Connection**.
25. Once the connection is established successfully, click on **Apply**.
26. Follow steps 15 to 17 to create the data source for FCIS Schema and give the name **FCBIPBPEL**.

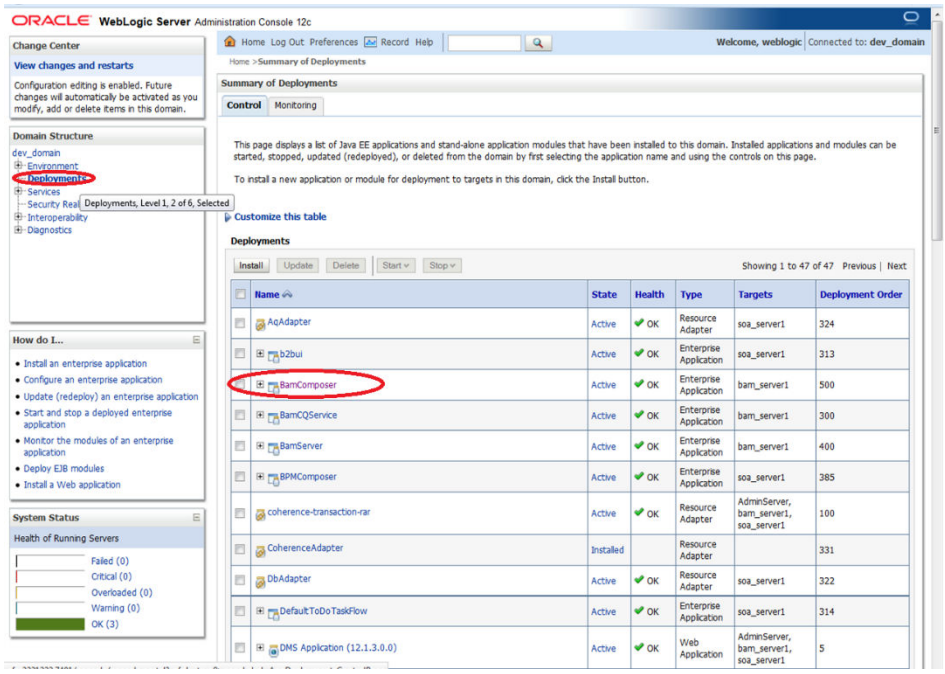
1.2.9 BAM Report Configuration settings

This topic explains the configuration settings for BAM reports.

1. Generate a deployment plan for BAM Composer Application.
2. Log in to console `http://<hostname>:<port>/<console>`.
3. Under the **Domain Structure**, click **Deployments**.
4. On the **Summary of Deployments** screen, click **BAM Composer**.

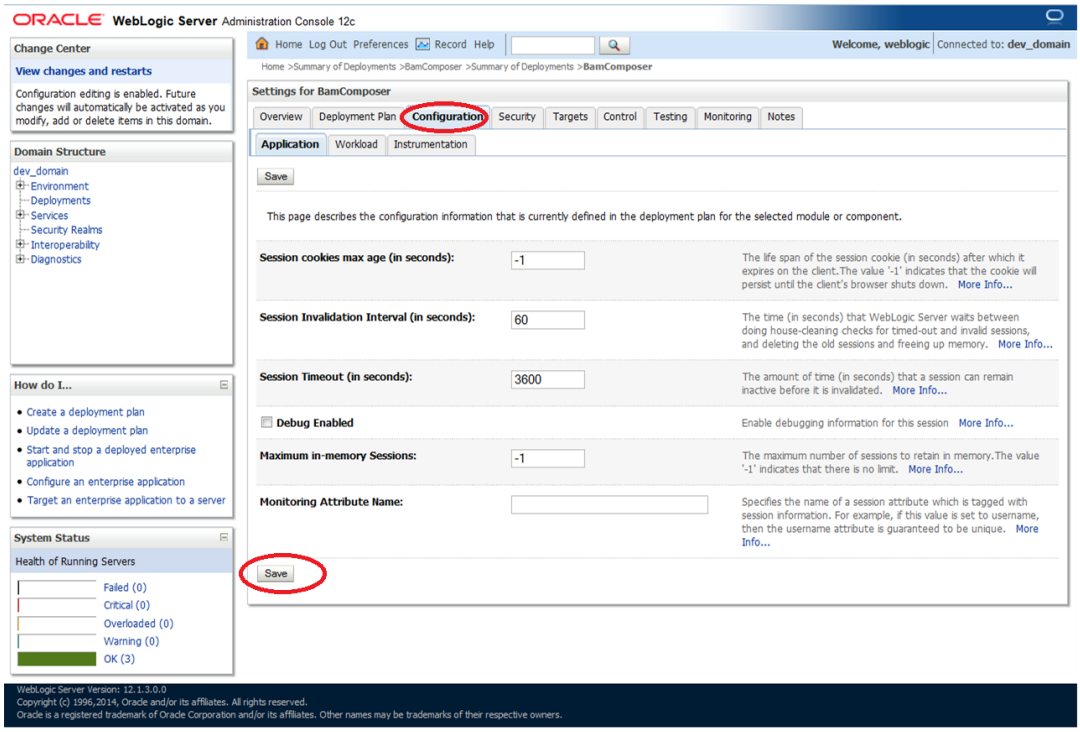
   The **Summary of Deployments** screen is displayed.

Figure 1-73 Summary of Deployments - BAMcomposer



5. On the **Settings for BAM Composer** screen, click on the Configuration tab, select the Application tab and click on the **Save** button.

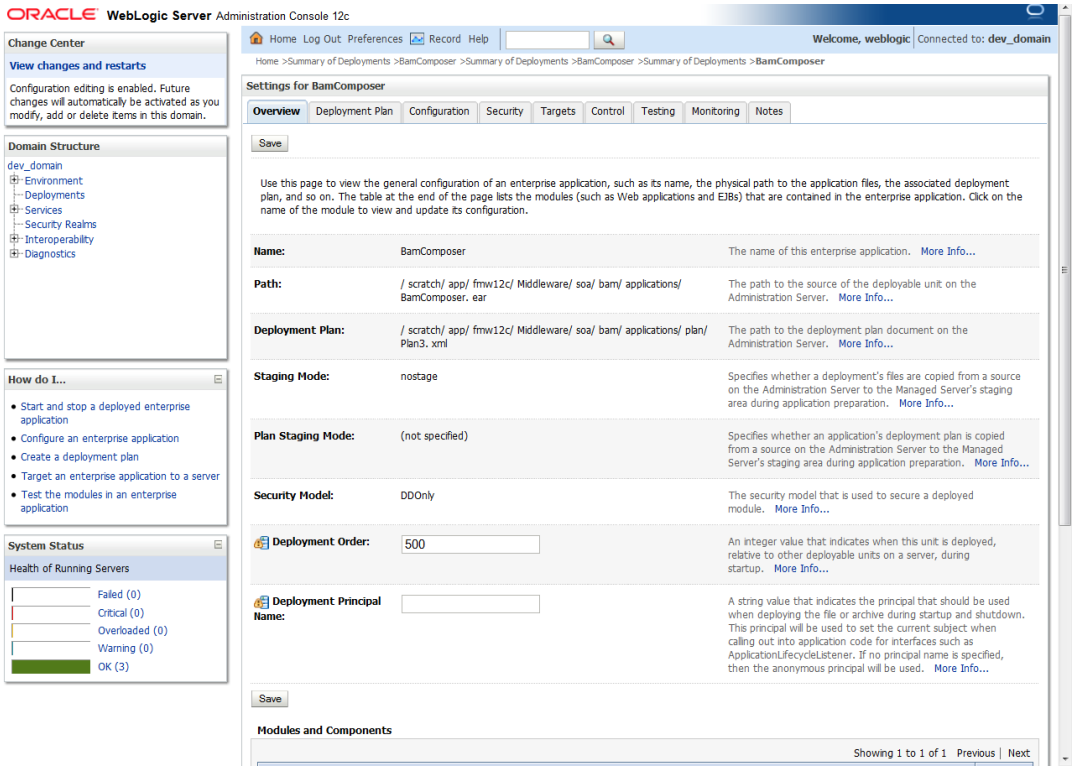
Figure 1-74 Settings for BAM Composer - Configuration



6. On the **Settings for BAM Composer** screen, click on the **Overview** tab and check the **Deployment Plan** location.

Settings for BAM Composer - Overview screen is displayed.

Figure 1-75 Settings for BAM Composer - Overview

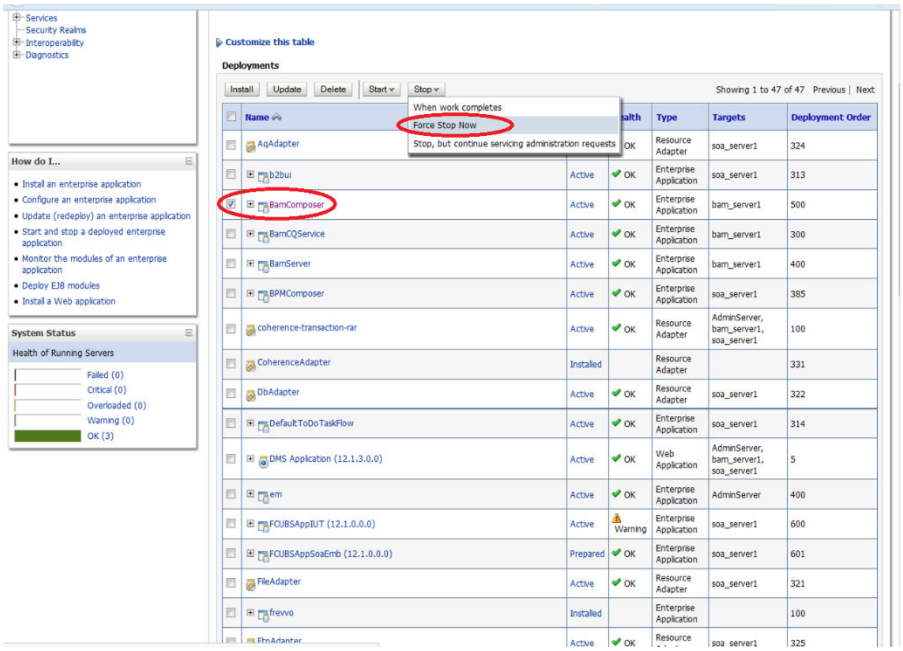


7. Add variable and variable assignment as below to the Plan.xml in `<module-name>BamComposerWeb.war</module-name>`.

```
<variable>
 <name>oracle.adf.view.rich.security.FRAME_BUSTING</name>
 <value>never</value>
 </variable>
<module-descriptor external="true">
 <root-element>web-app</root-element>
 <uri>WEB-INF/web.xml</uri>
 <variable-assignment>
 <name>oracle.adf.view.rich.security.FRAME_BUSTING</name>
 <xpath>/web-app/context-param/
[paramname="oracle.adf.view.rich.security.FRAME_BUSTING"]/param-value</
xpath>
 <origin>planbased</origin>
 </variable-assignment> </module-descriptor>
```

8. On the **Summary of Deployments** screen, click on **Stop** button and the following options are displayed.
   - When work completes.
   - Force Stop Now
   - Stop, but continue servicing administration requests.

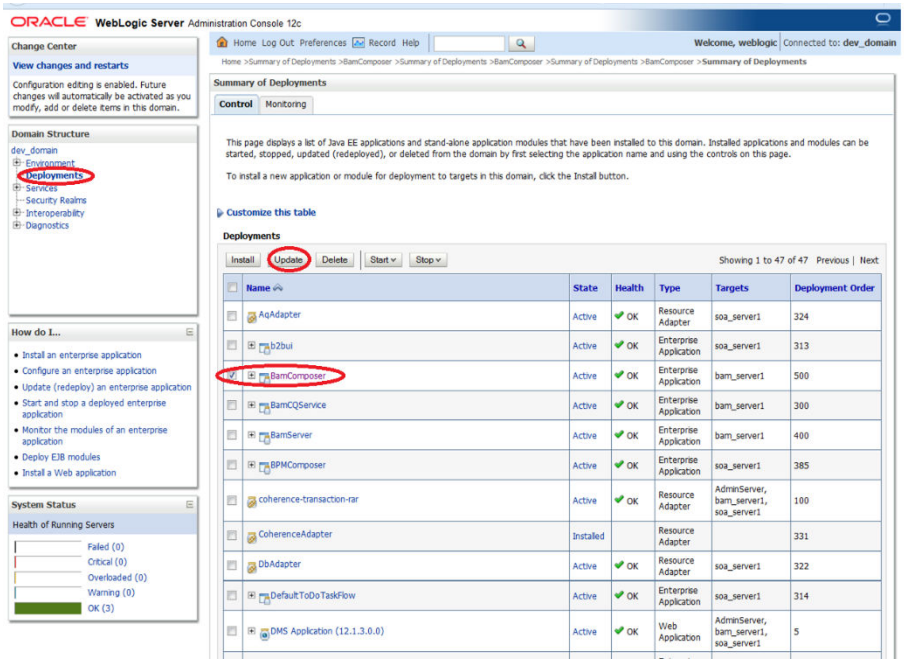
Figure 1-76 BAMComposer Application



9. Update the deployment plan.
10. Click on **Deployment**, select the **BAM Composer** checkbox and click the **Update** button.

    The **Summary of Deployments - Update** screen is displayed.

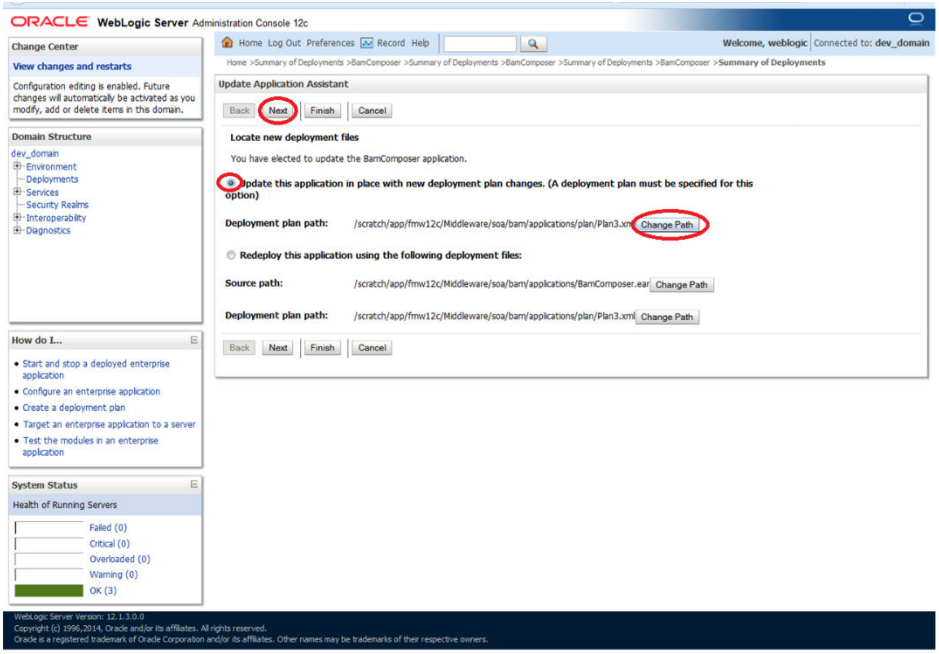
Figure 1-77 Summary of Deployments - Update



11. On the **Update Application Assistant** screen, select the **Update this application in place with new deployment plan changes** and click on the **change path** button.

    The **Update Application Assistant** screen is displayed.

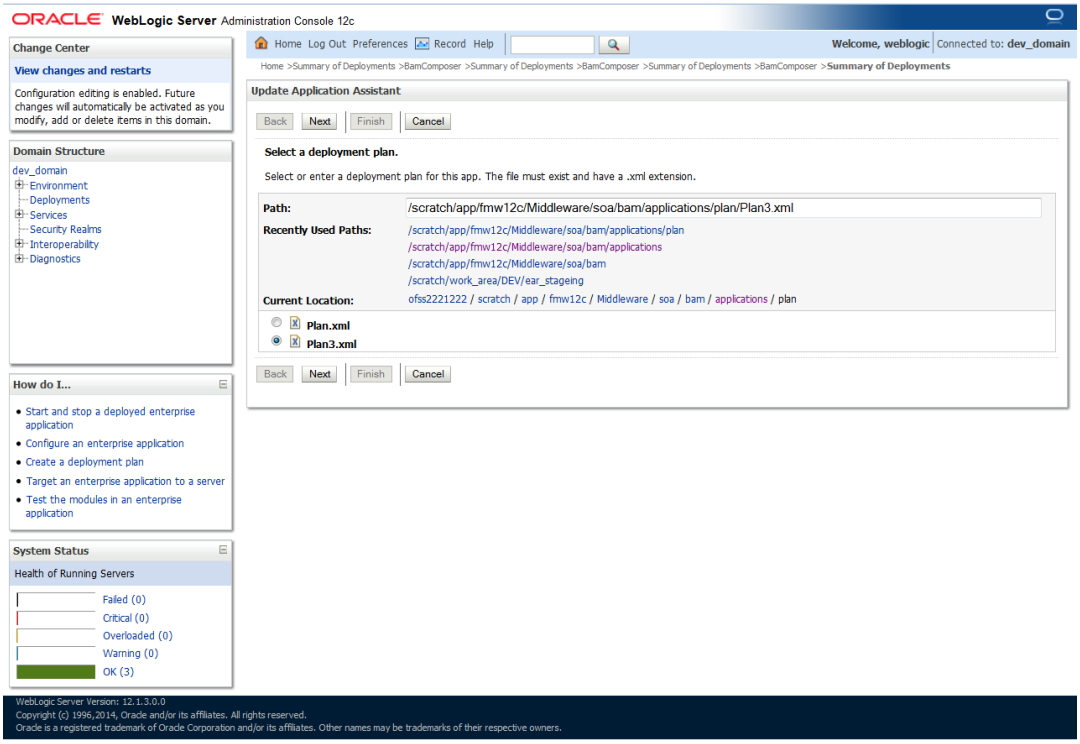
Figure 1-78 Update Application Assistant - Change Path



12. Select the latest plan.xml in the path, click the **Next** button, and click **Finish**.

    The **Update Application Assistant - Select a deployment plan** screen is displayed.

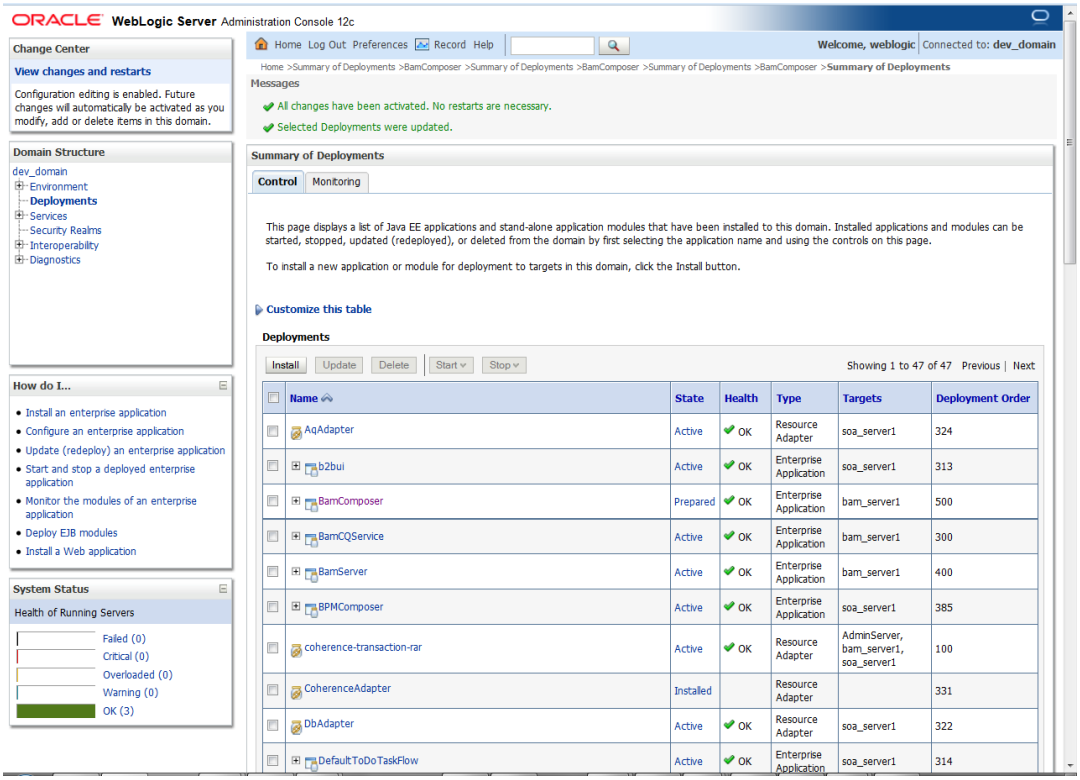
Figure 1-79 Update Application Assistant - Select a deployment plan



13. After the click on **Finish**, two messages are displayed on the **Summary of Deployments** screen.

The **Summary of Deployments - Messages** screen is displayed.

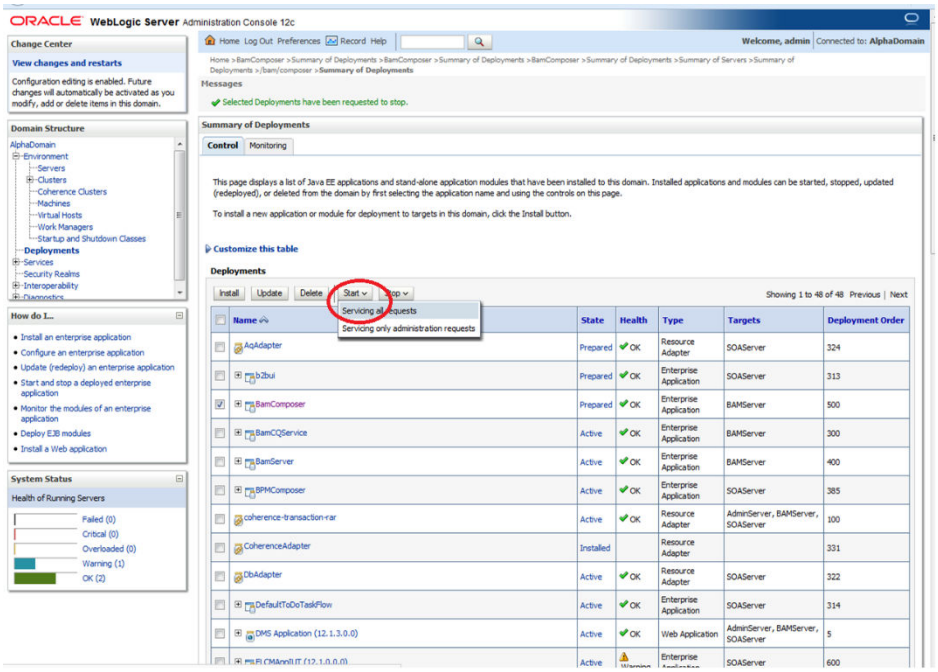
Figure 1-80 Summary of Deployments - Messages



14. Restart the BAM Composer application in the console.

The **Summary of Deployments - Restart BAM Composer** screen is displayed.

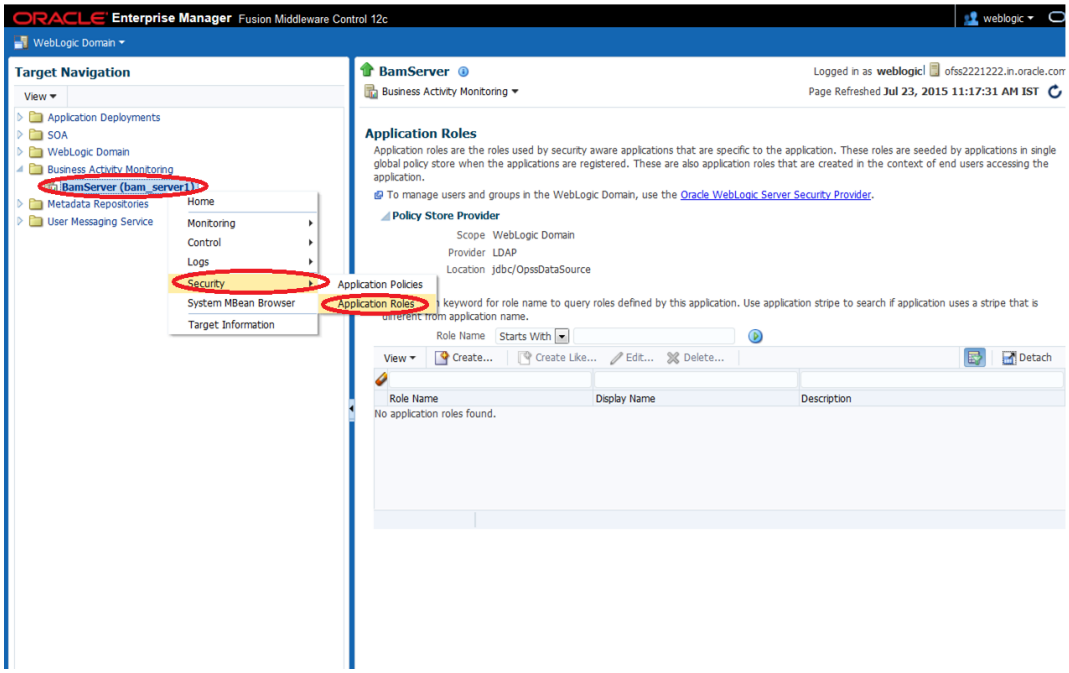
Figure 1-81 Summary of Deployments - Restart BAM Composer



15. Login in to em console http://hostname:port/em.
16. Right click on the **BAM Server**, go to **Security** and click on the **Application Roles**.

    The **BAM Server Application Roles** screen is displayed.

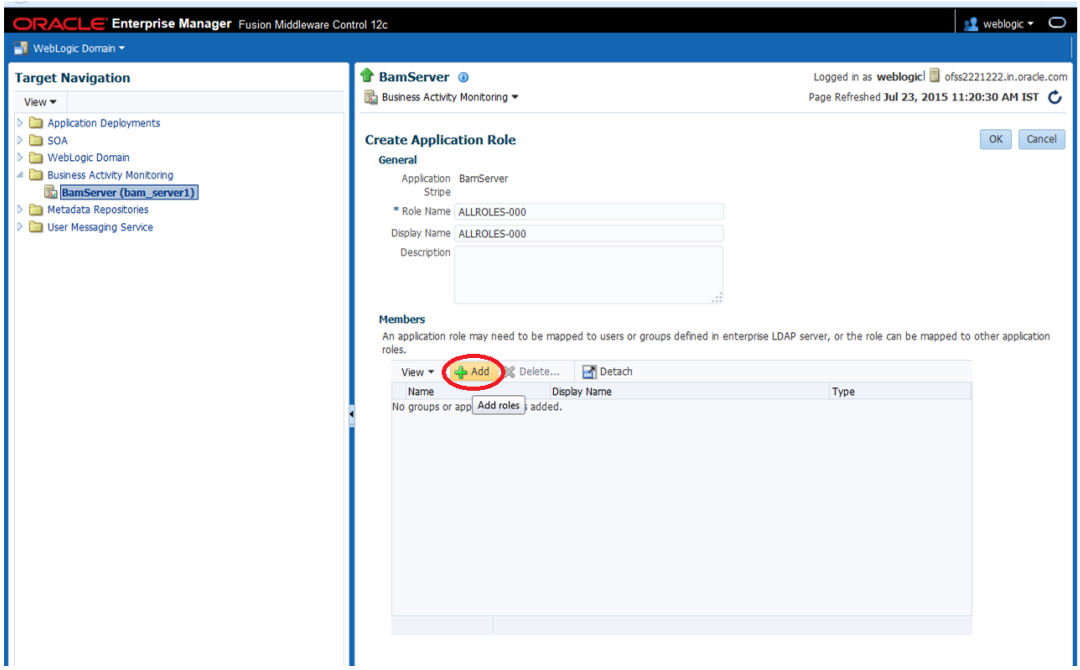
Figure 1-82 BAM Server Application Roles



17. On the Application Roles screen click on the **Create** button and create application role with **ALL ROLES-000**.

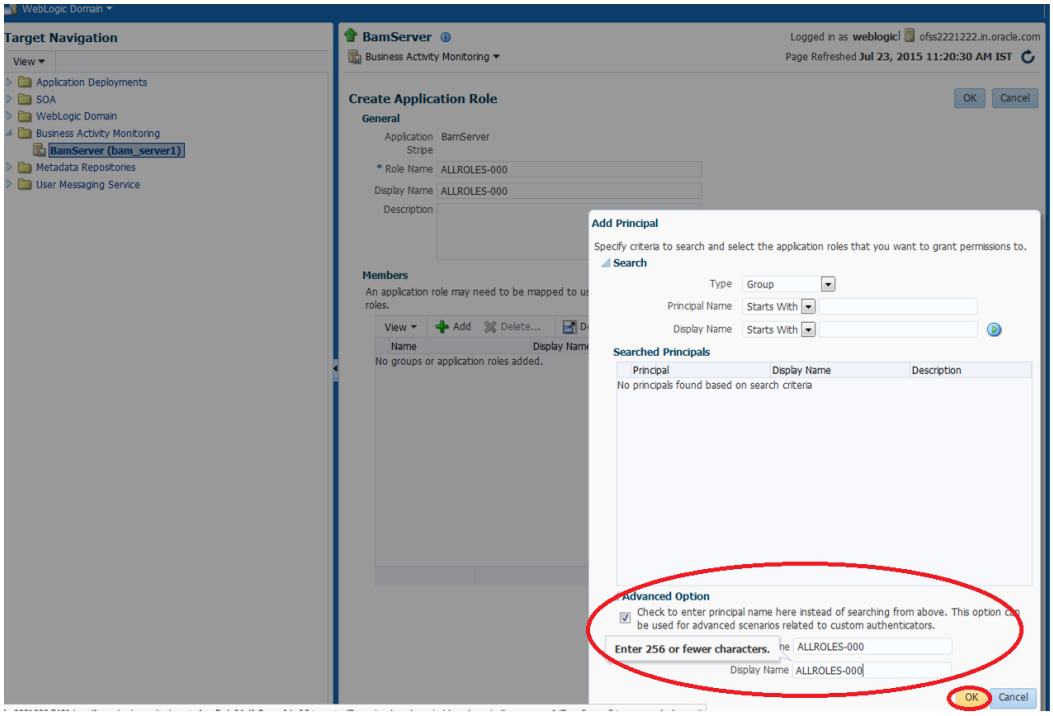
    The **Create Application Role** screen is displayed.

Figure 1-83 Create Application Role - Add



18. Click on the **ADD** button under the **Members**.
19. Select the **Type** as **Group** and add principle details by referring to the below screenshot.

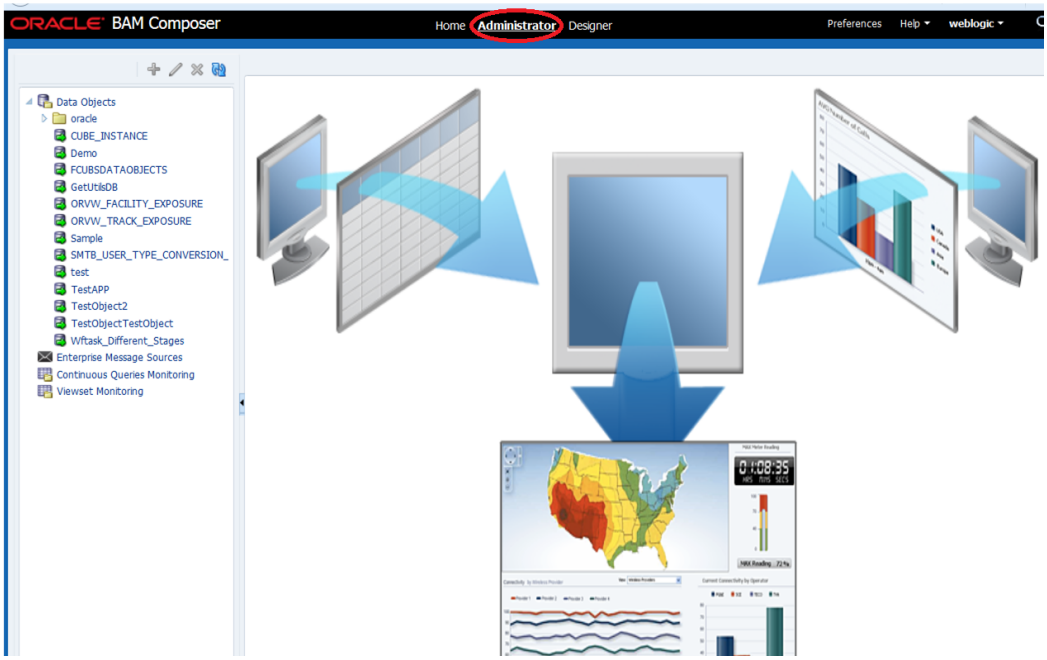
Figure 1-84 BamServer - Add Principal



20. Log in to BAM Composer http://hostname:port/bam/composer and click on Administrator.

    Oracle BAM Composer Administrator screen is displayed.

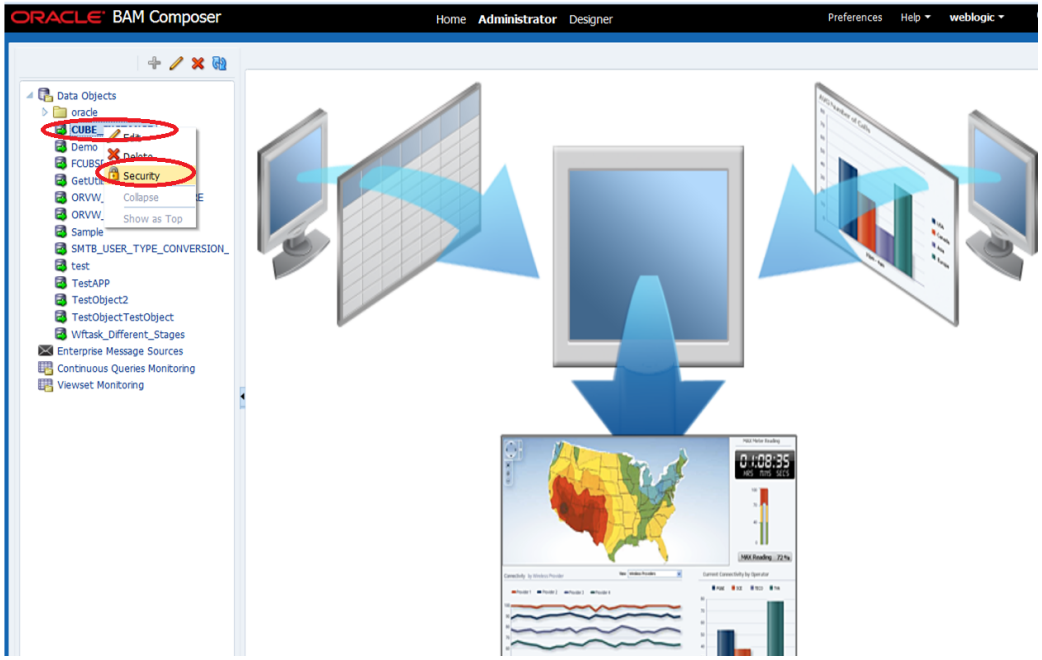
Figure 1-85 Oracle BAM Composer Administrator



21. Go to **Data Object**, Right Click on **CUBE_INSTANCE** and click on **Security**.

    The **Security** screen is displayed.

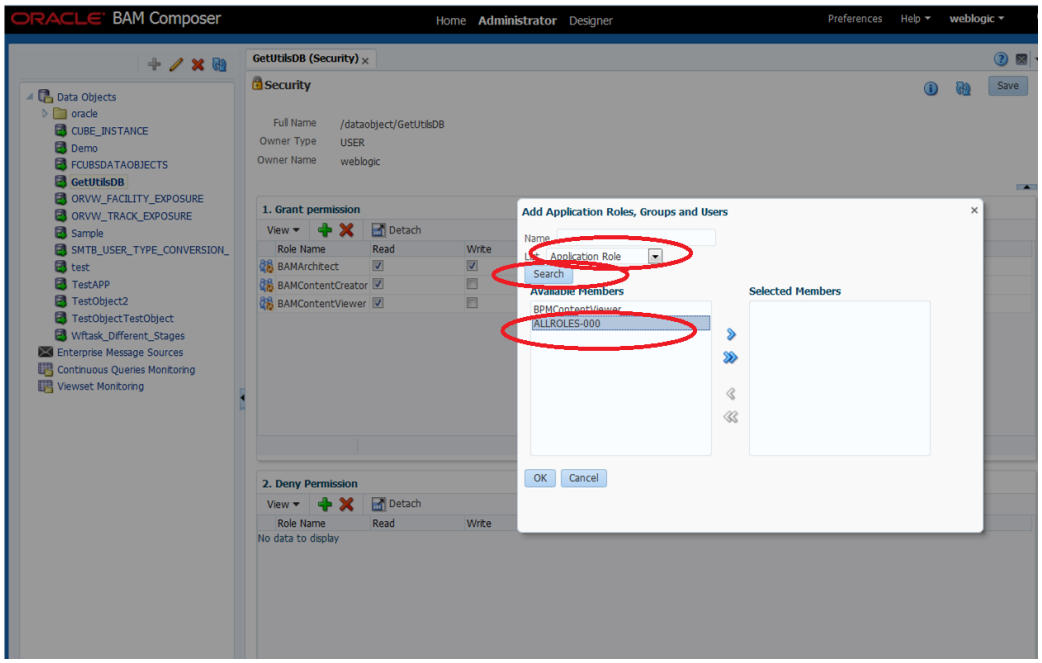
Figure 1-86 Oracle BAM Composer Navigation



22. Click on the **Add** button under **Grant permission** and search the list based on the **Application Role**.

    The **Security - Add Application Roles, Groups and Users** screen is displayed.

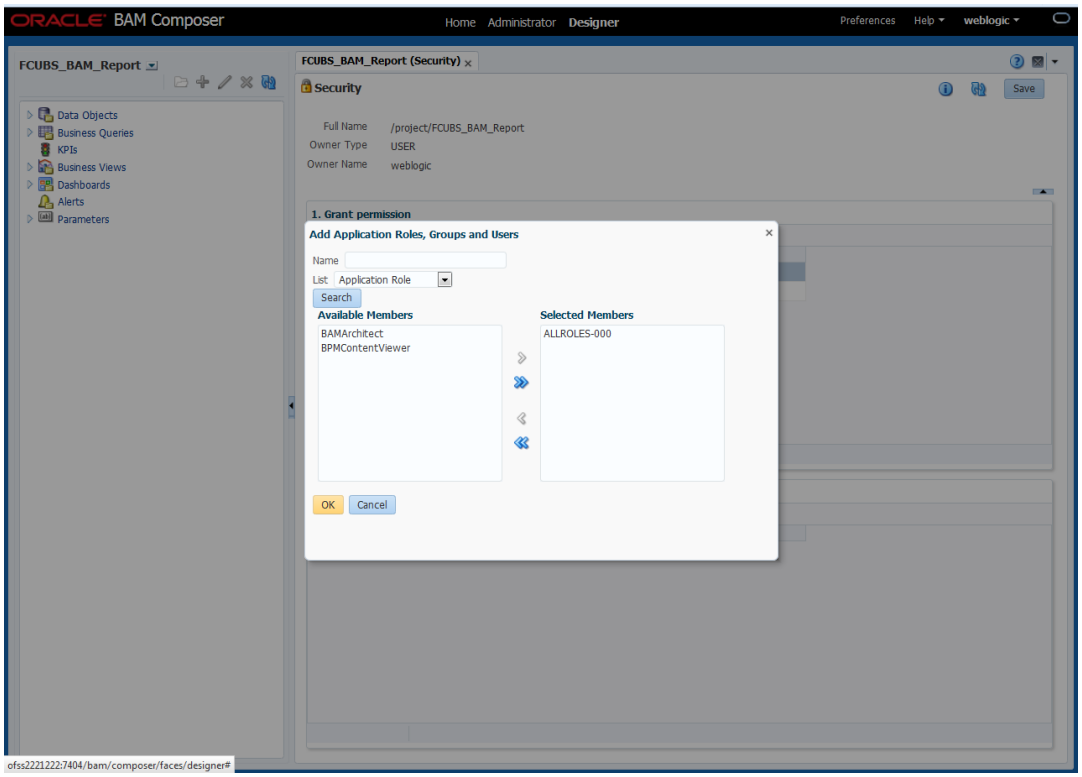
Figure 1-87 Security - Add Application Roles, Groups and Users



23. Move the **ALLROLES-000** to Selected members.

    The **Add Application Roles, Groups and Users - ALLROLES-000** screen is displayed.

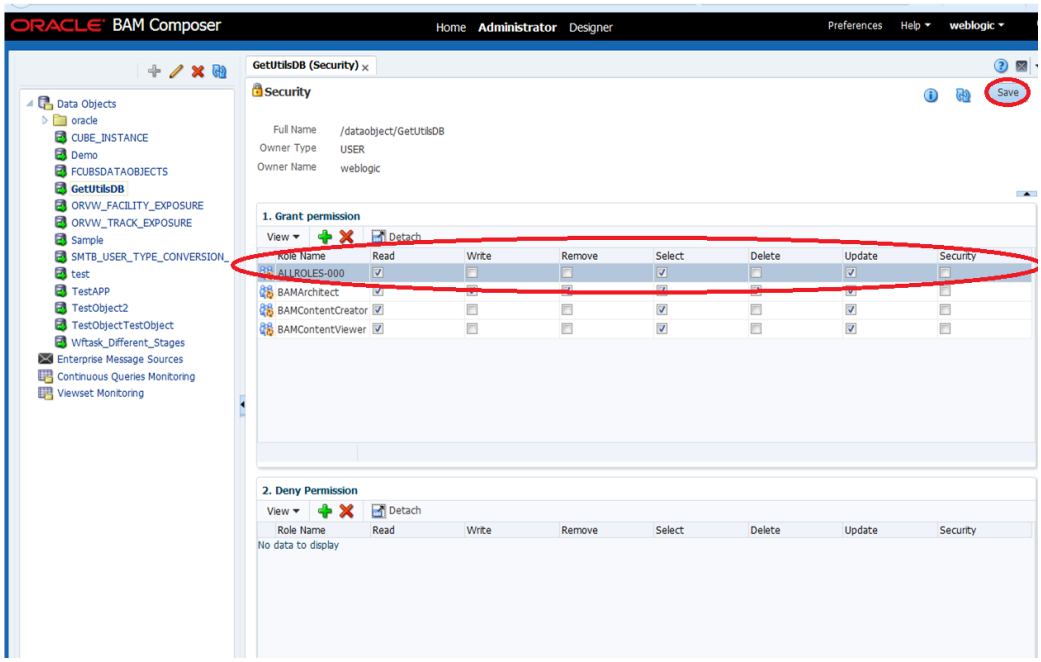
Figure 1-88 Add Application Roles, Groups and Users - ALLROLES-000



24. Click on **Read**, **Select**, **Update** checkboxes and click on the **Save** button.

    The **Security - ALLROLES-000** screen is displayed.

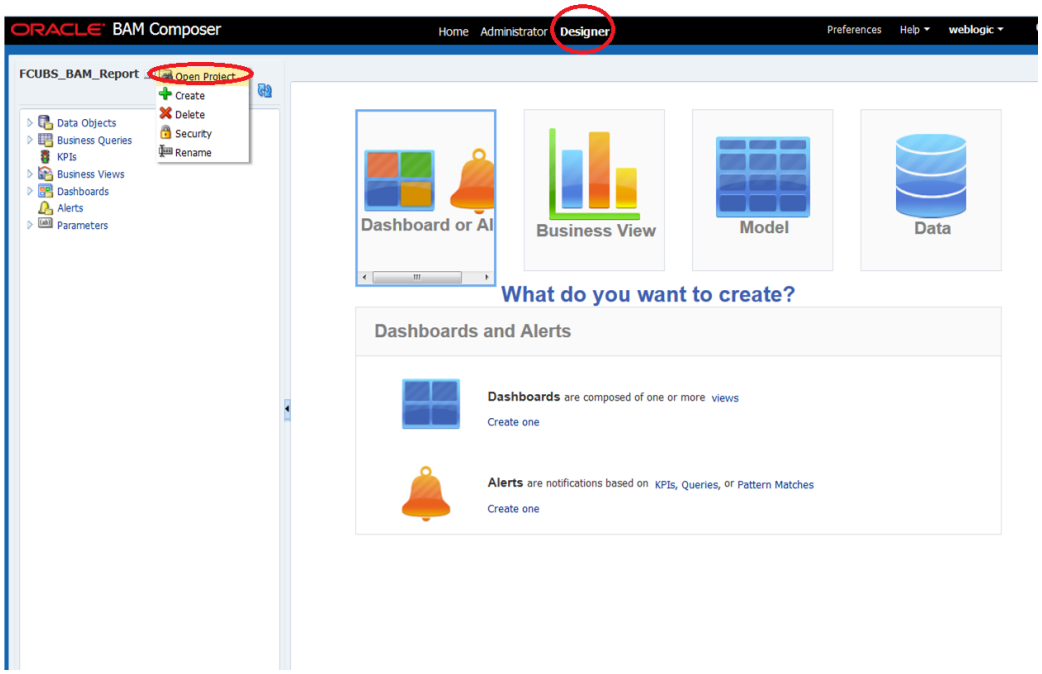
Figure 1-89 Security - ALLROLES-000



25. Follow steps 19 to 23 for other Data objects as listed below:
    - cube_instance
    - wftask_different_stages
    - ORVW_TRACK_EXPOSURE
    - ORVW_FACILITY_EXPOSURE
    - GetUtilsDB
    - SMTB_USER_TYPE_CONVERSION_VIEW
    - FCUBSDATAOBJECTS
26. On the **Oracle BAM Composer**, click on the **Designer** and click open project.

    The **Oracle BAM Composer Designer** screen is displayed.

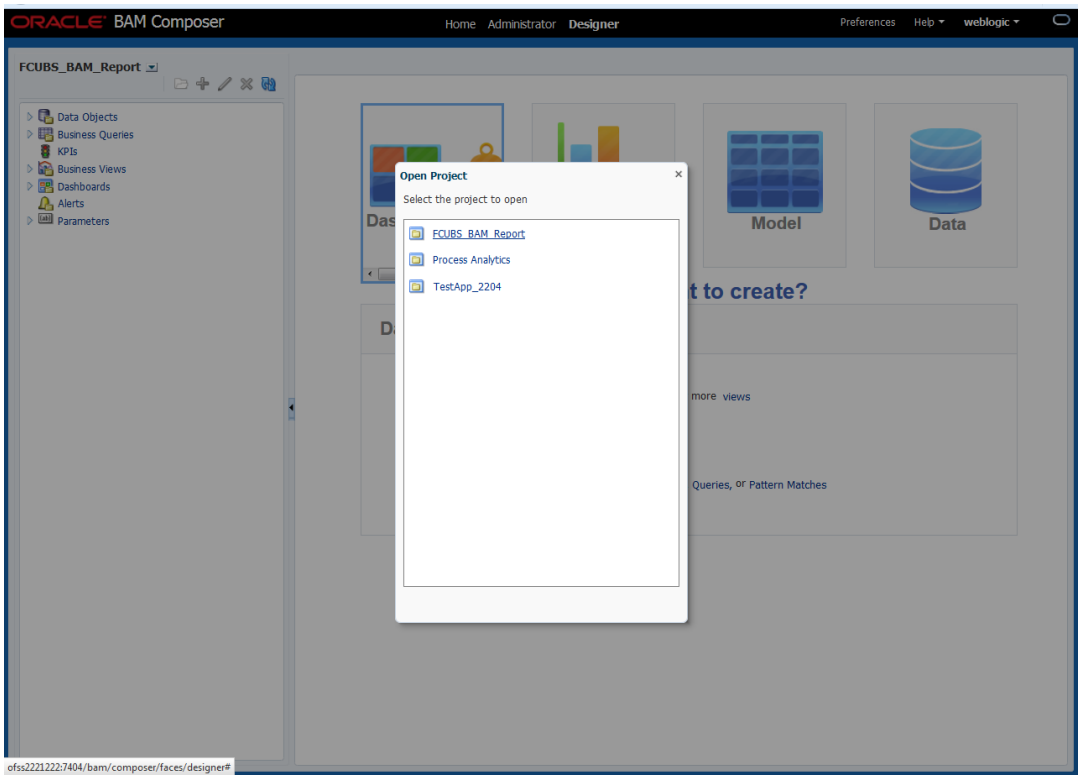
Figure 1-90 Oracle BAM Composer Designer - Open Project



27. On the **Open Project** pop-up window click on **FCUBS_BAM_Report**.

    The **Designer - Open Project** pop-up window is displayed.

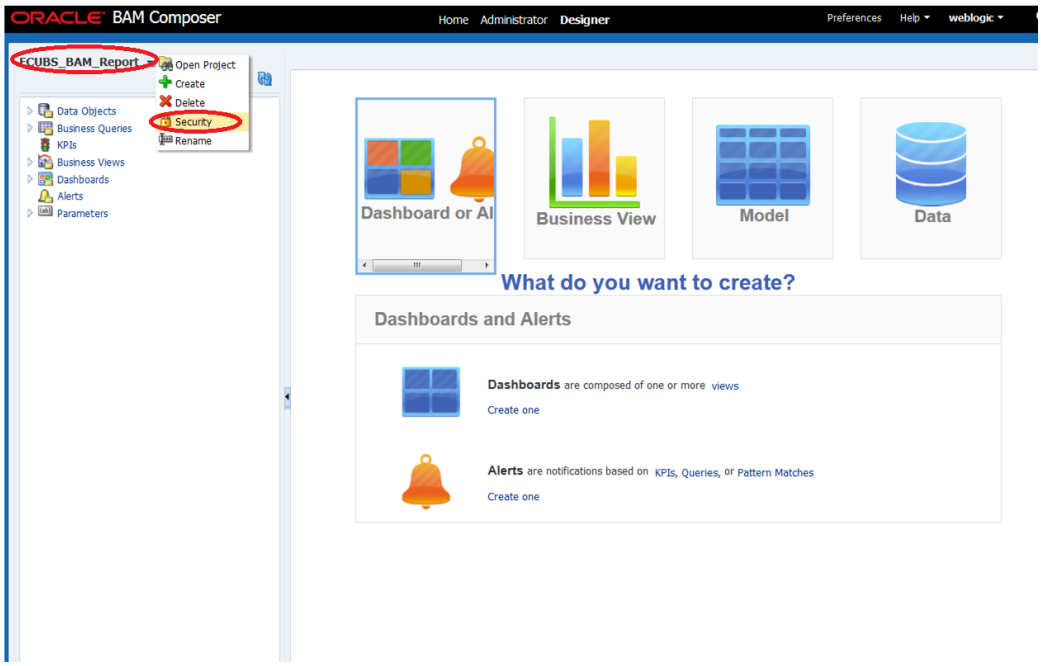
Figure 1-91 Designer - Open Project



28. Click on **FCUBS_BAM_Report** and click Security.

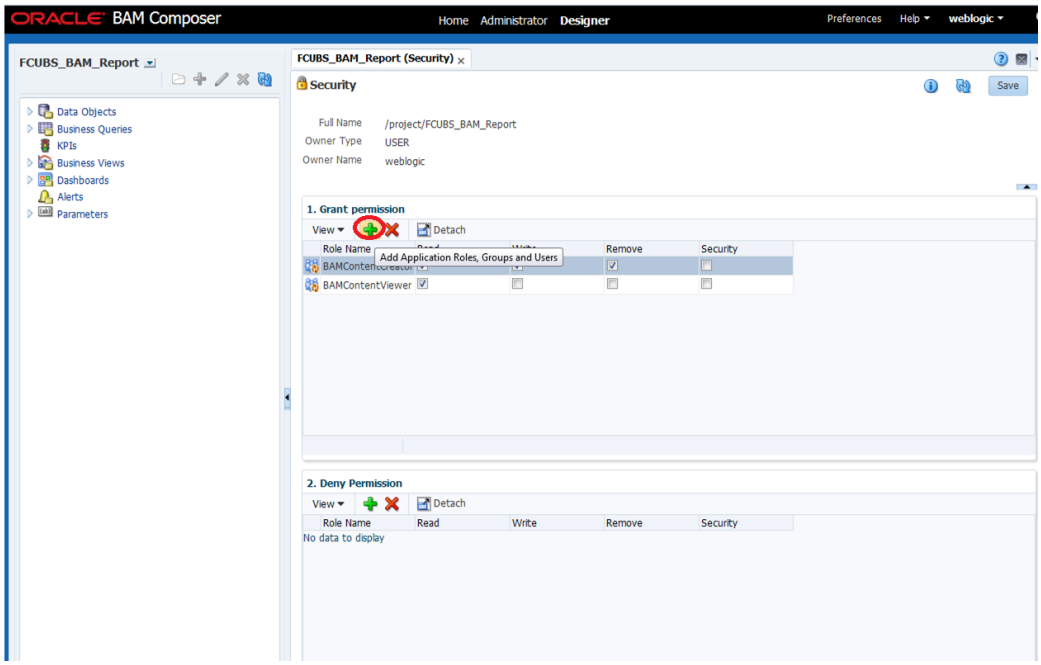
    The **FCUBS_BAM_Report (Security)** screen is displayed.

Figure 1-92 Oracle BAM Composer Designer - Security



29. Click on the **ADD** button under **Grant Permission**.

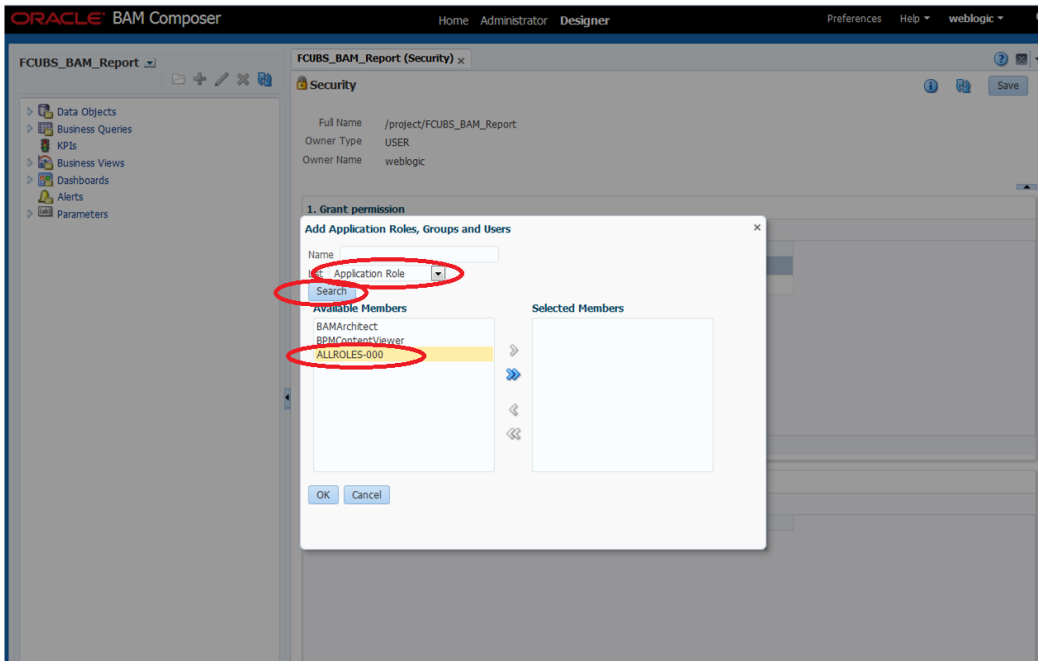
Figure 1-93 Security - Grant Permission



30. Search the List based on the **Application Roles** and select the **ALLROLES-000**.

    The **Add Application Roles, Groups and Users - ALLROLES-000** pop-up window is displayed.

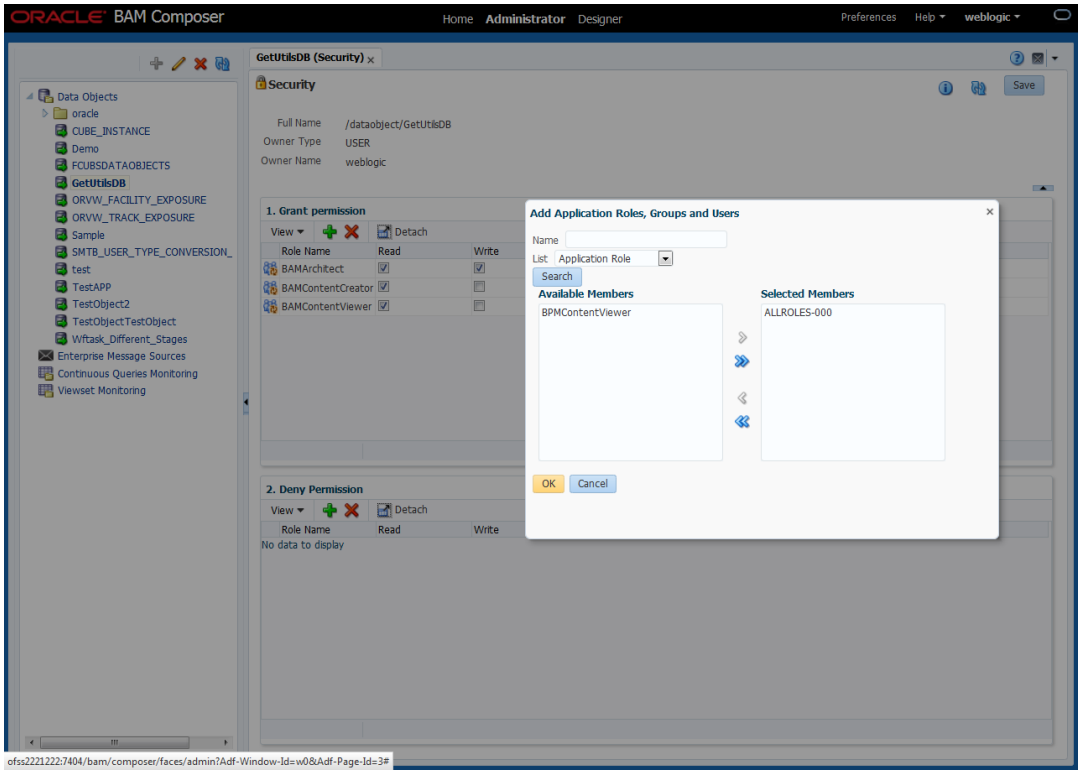
Figure 1-94 Add Application Roles, Groups and Users - ALLROLES-000



31. Move the **ALLROLES-000** to Selected Members and click on **OK** button.

    The **Add Application Roles, Groups and Users - ALLROLES-000 - Selected Members** pop-up window is displayed.

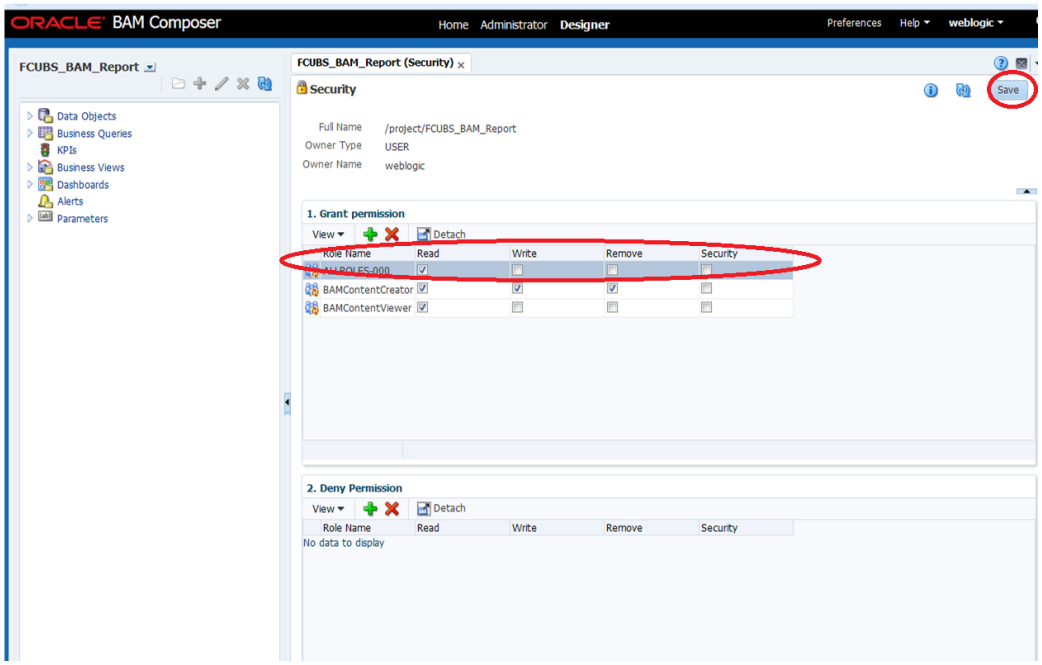
Figure 1-95 Add Application Roles, Groups and Users - ALLROLES-000



32. Click on **Read** check box for **ALLROLES-000** and click on the **Save** button.

The **FCUBS_BAM_Report (Security) - ALLROLES-000** screen is displayed.

Figure 1-96 FCUBS_BAM_Report (Security) - ALLROLES-000



1.2.10 IPM Configuration To Edit The Document

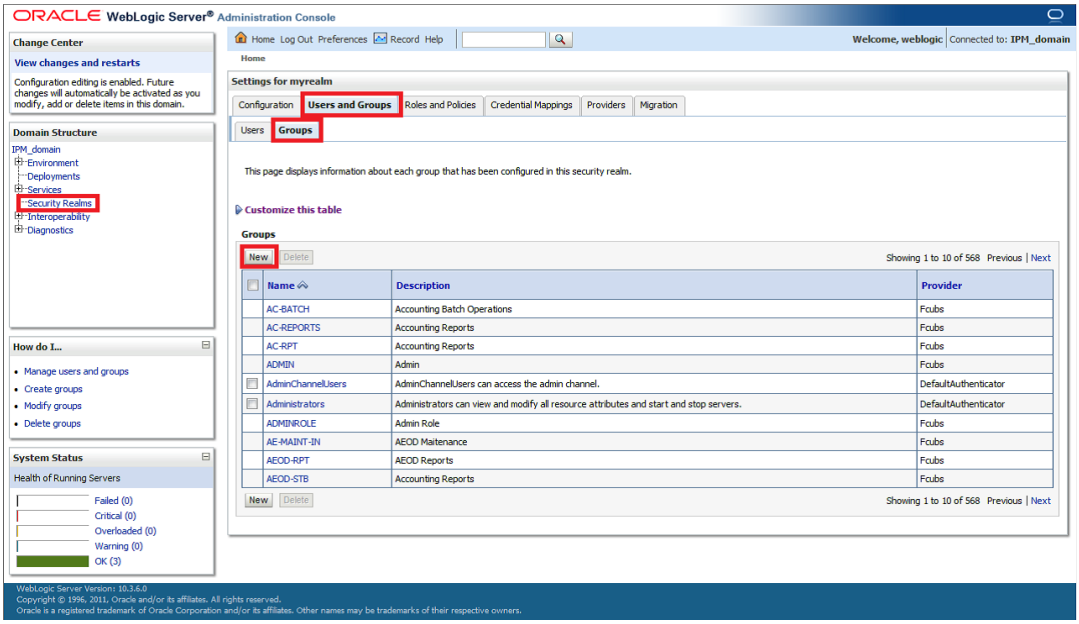
This topic explains to edit the document using the IPM configuration.

1. Log in to the console, http/s:<hostname>:<port>/console with admin user.
2. To add the FCJCustomProvider follow steps 3 to 7 in Custom Provider Configuration.

   After adding, navigate to **Security Realms**, **myrealm**, **Users and Groups** and check if the users from the schema are displayed in the **Users** tab, and Roles from the schema are displayed under the **Groups** tab.
3. After adding the custom authenticator,
   a. Navigate to **Security Realms**, **myrealm**, **Users and Groups** and click on the **Groups** tab.
   b. Click on the **New** button.

   The **Settings for myrealm** screen is displayed.

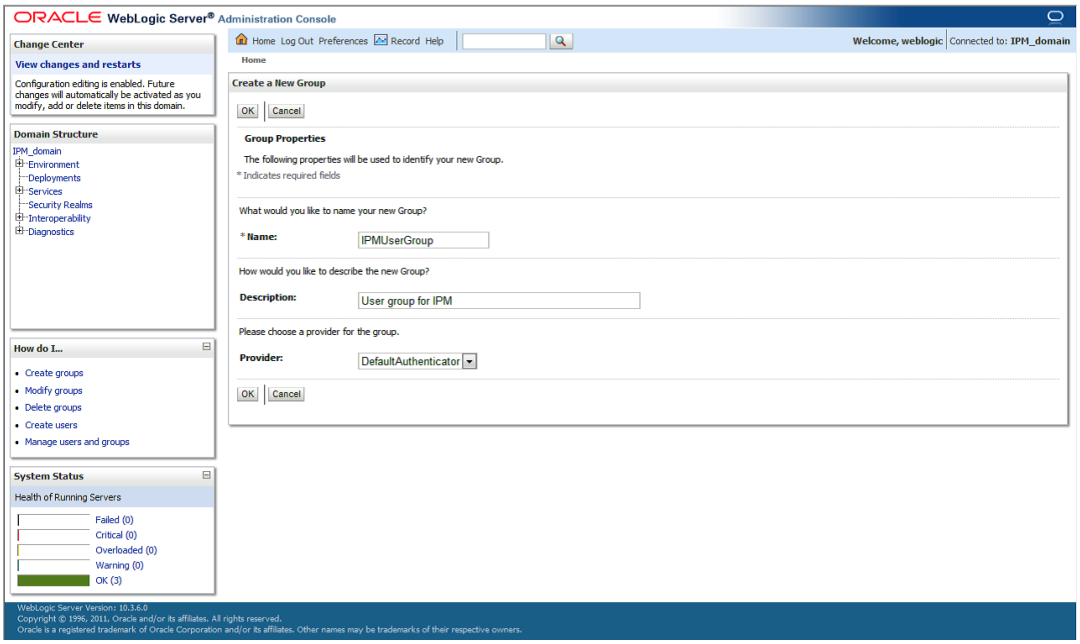
Figure 1-97 Settings for myrealm - Group



4. After clicking the **New** button,
   a. Enter the Name as **IPMUserGroup**.
   b. Provide the **Description** for the new group (optional).
   c. Select the **Provider** as **DefaultAuthenticator**.
   d. Click the **OK** button.

   The **Create a New Group** screen is displayed.

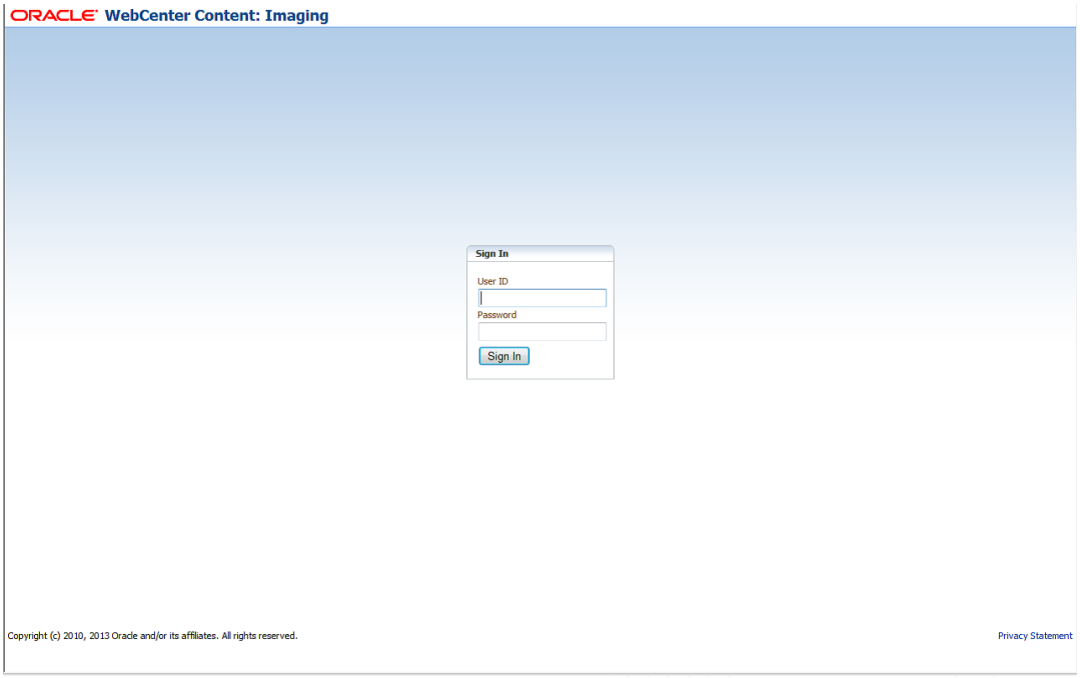
Figure 1-98 Create a New Group - Group Properties



5. Log in to the Imaging URL http/s:<hostname>:<port>/imaging with admin user.

   The **Oracle Webcenter Content:Imaging** log in screen is displayed.

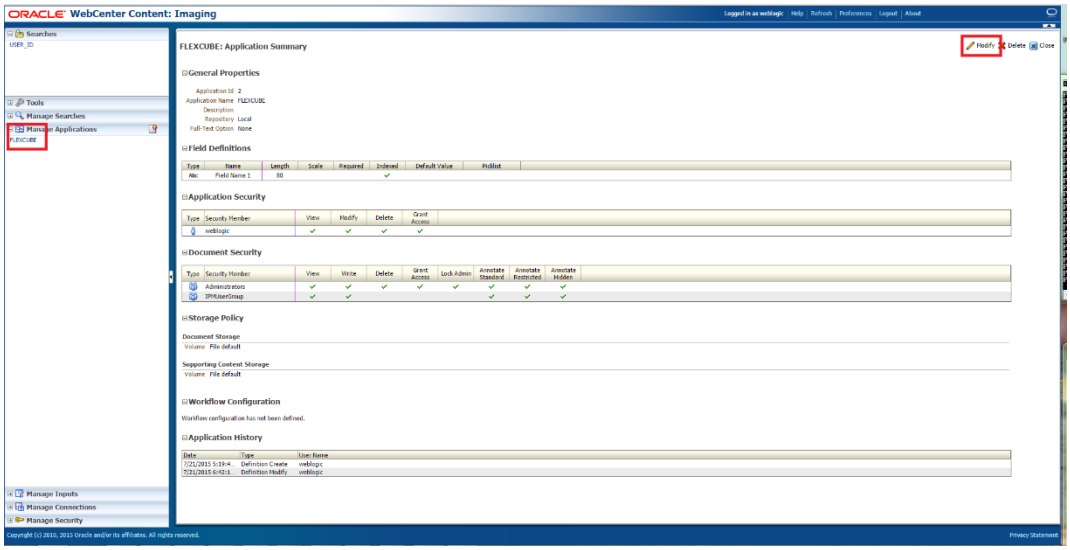
Figure 1-99 Oracle Webcenter Content - Imaging



6. After entering the **User Id** and **Password**,
   a. Navigate to Manage Applications on the left pane.
   b. Click on the **FLEXCUBE**.
   c. Click on the **Modify** on the right pane.

FLEXCUBE:Application Summary screen is displayed.

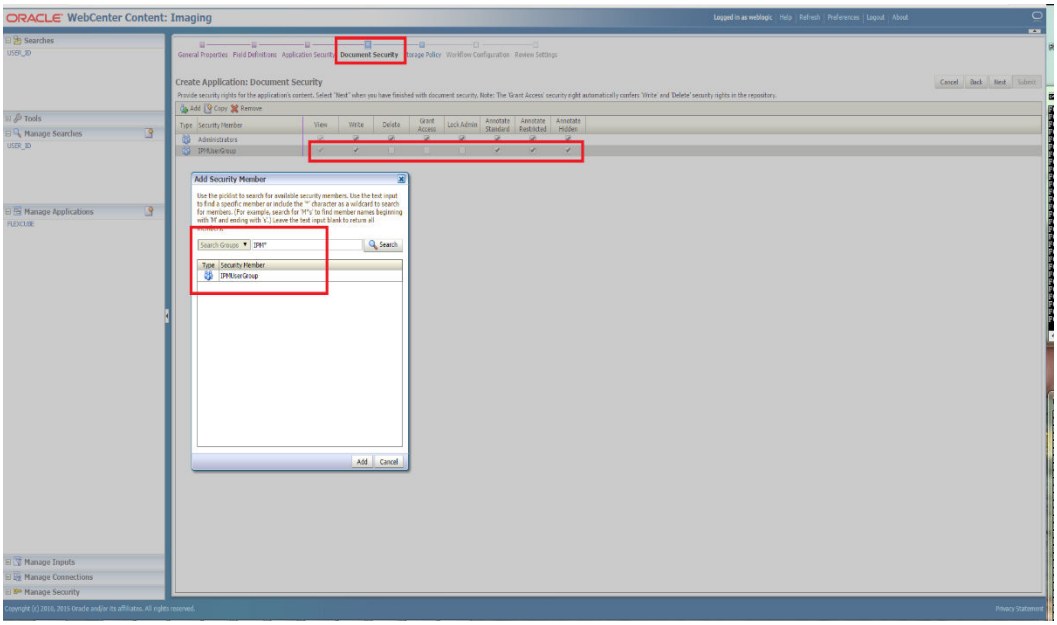
Figure 1-100 FLEXCUBE:Application Summary



7. After clicking the **Modify** (add the icon with text) button,
   a. Navigate to Document Security.
   b. Click on the **Add** (add the icon) button.
   c. Click on the **Search** button in the **Add Security Member** pop-up window.
   d. Select the **IPMUserGroup**.
   e. Click on **Add** (button with text) button.
   f. IPMUserGroup is listed in the panel, select View, Write, Annotate Standard, Annotate Restricted and Annotate Hidden checkboxes.
   g. Finally, click on the **Submit** button on the right corner.

The **Document Security** screen is displayed.

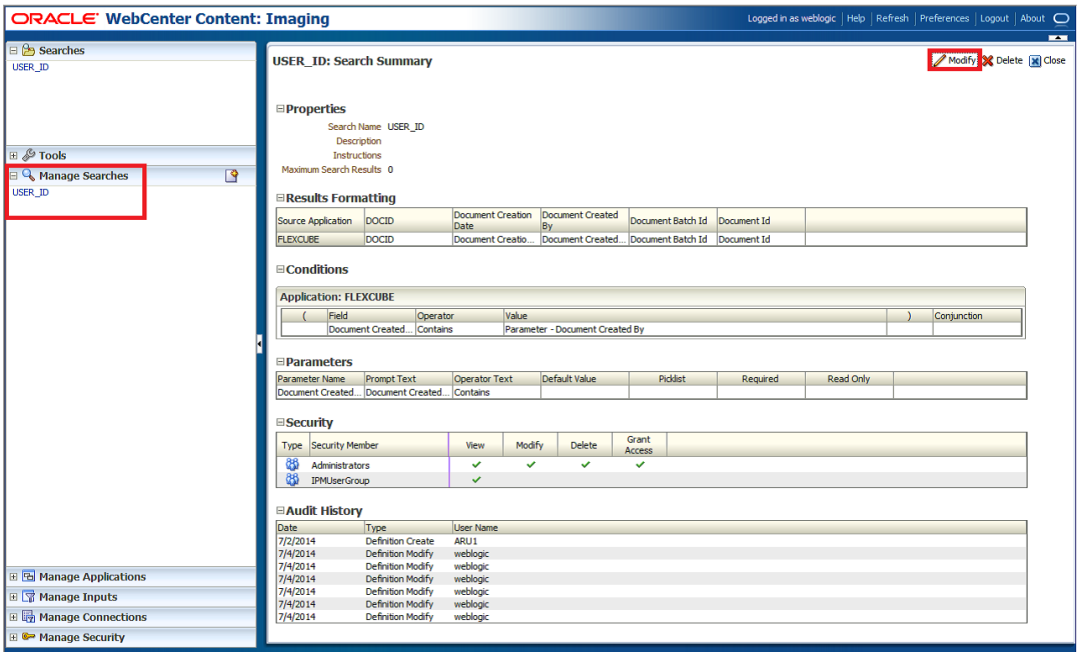
Figure 1-101 Document Security



8. After clicking the Submit button,
   a. Navigate to **Manage Searches**.
   b. Click on the available search (ex: USER_ID in this doc)
   c. Click on the **Modify** (add the icon with text) button.

   The **USER_ID:Search Summary** screen is displayed.

Figure 1-102 USER_ID:Search Summary



9. After clicking on the **Modify** (add the icon with text) button,

a. Navigate to Document Security.

b. Click on the **Add** (image with text) button

c. Click on the **Search** button in the **Add Security Member** pop-up window.

d. Select the **IPMUserGroup**.

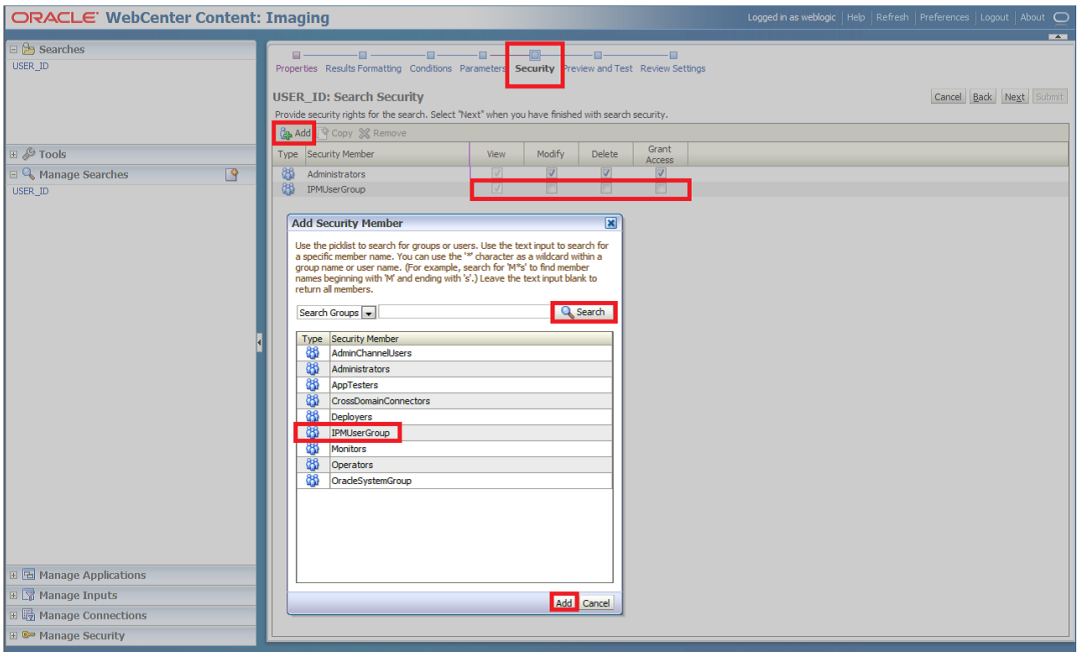
e. Click on **Add** (button with text) button.

f. **IPMUserGroup** will be listed in the panel; don't select any checkbox except the default View checkbox.

g. Finally, click on the **Submit** button on the right corner.

The **USER_ID:Search Security** screen is displayed.

Figure 1-103 Add Security Member



10. Copy the **FCJJPSProvider.jar** to location `<ORACLE_HOME >\user_projects\domains\<domian name>\lib .`

11. Go to the location `<ORACLE_HOME>\ user_projects\domains\<Domain_created>\config\fmwconfig`.

    a. Open jps-config.xml file. Search for <serviceProviders> tag and add the following code between <serviceProviders> and </serviceProviders> tags.

```
<serviceProvider
class="oracle.security.jps.internal.idstore.generic.GenericIdentityStore
Provider"
name="custom.generic.provider" type="IDENTITY_STORE">
<description>DB IdentityStore Provider</description>
</serviceProvider>
```

b. Similarly, search for <serviceInstances> tag and add the following code between <serviceInstances> and </serviceInstances> tags.

```
<serviceInstance location="dumb" name="idstore.custom"
provider="custom.generic.provider">
 <description>Custom Identity Store Service Instance</description>
 <property name="idstore.type" value="CUSTOM"/>
 <property name="ADF_IM_FACTORY_CLASS"
value="com.ofss.fcc.bpel.security.idm.providers.stddb.FCIdentityStoreFac
tory"/>
 <property name="DATASOURCE_NAME" value="jdbc/fcjdevDS"/>
 <property name="INTERNAL_CONTEXT_REQUIRED" value="true"/>
 <property name="INTERNAL_CONTEXT_NAME" value="internalstore"/>
 </serviceInstance>
```

Make sure that the JNDI (jdbc/fcjdevDS) matches the value given during property file creation.

c. Search for <jpsContexts default="default"> tag and add the following code between <jpsContexts default="default"> and </jpsContexts>, preferably after the default jpsContext.

```
<jpsContext name="internalstore">
 <serviceInstanceRef ref="credstore"/>
 <serviceInstanceRef ref="keystore"/>
 <serviceInstanceRef ref="policystore.xml"/>
 <serviceInstanceRef ref="audit"/>
 </jpsContext>
```

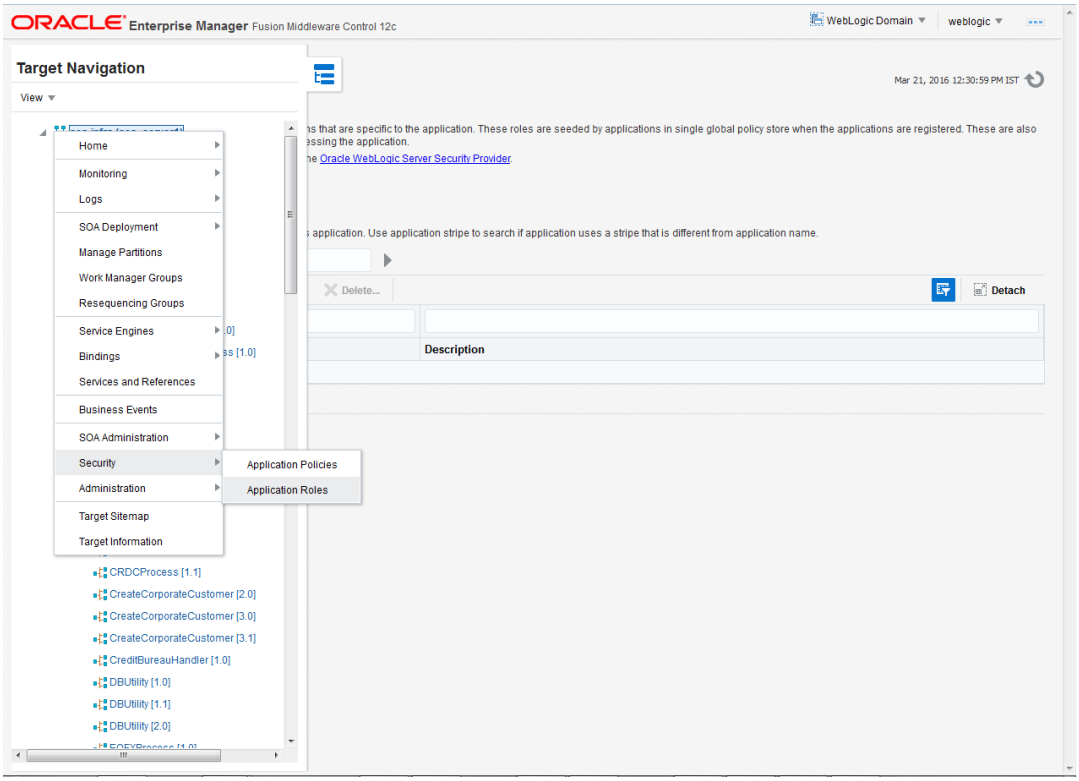
1.2.11 Configuring Superviser Roles in EM

This topic explains to configure superviser roles in the Oracle Enterprise Manager.

1. Right click on soa-infra. Select **Security** and click on **Application Roles**.

   The **Application Roles** screen is displayed.

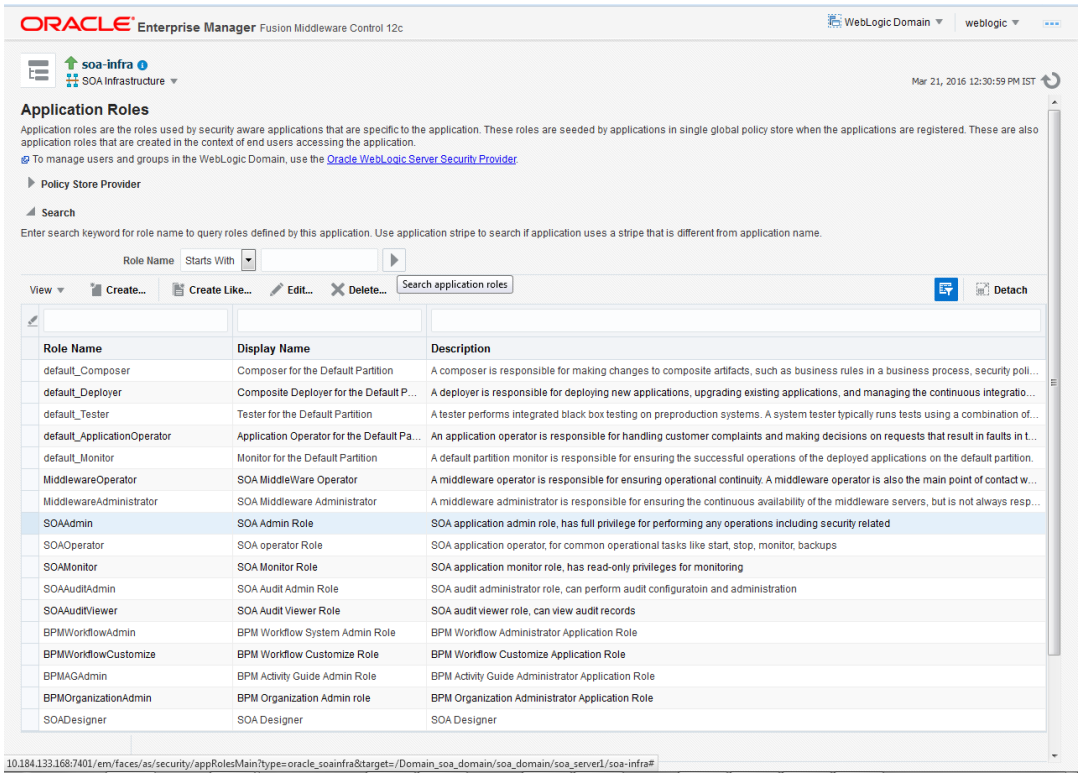
Figure 1-104 Navigation to the Application Roles



2. Search the Application Roles name with the **Starts With** option.

   The **soa-infra (Application Roles)** screen is displayed.

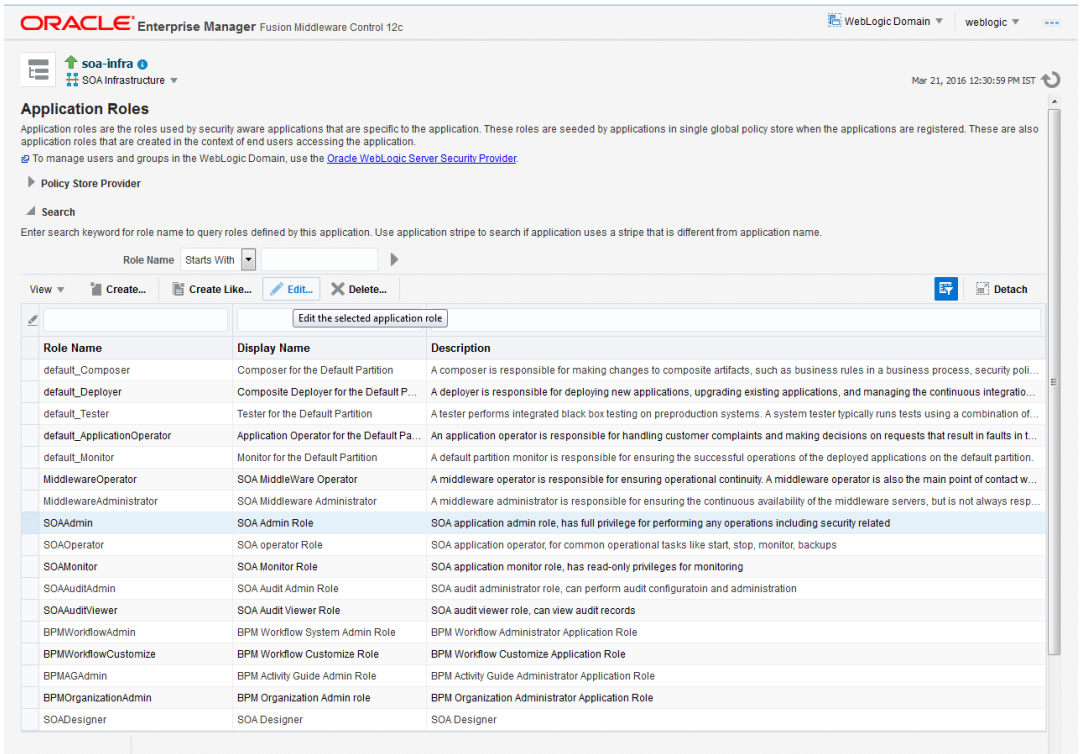
Figure 1-105 soa-infra (Application Roles)



3. Select the **SOAAdmin** role and click on **Edit** option.

   The **Edit Application Roles : SOAAdmin** screen is displayed.

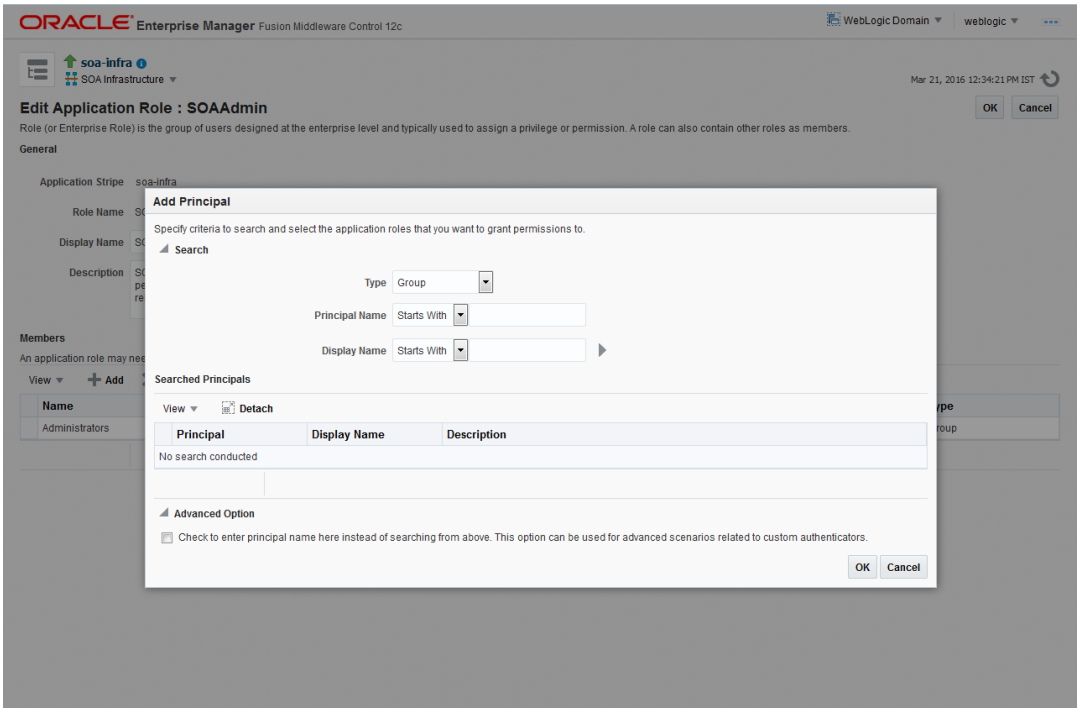
Figure 1-106 Edit Application Roles : SOAAdmin



4. Click on the **ADD** button and provide the **Type** as **Group** from the drop-down.

   The **Add Principal** pop-up window is displayed.

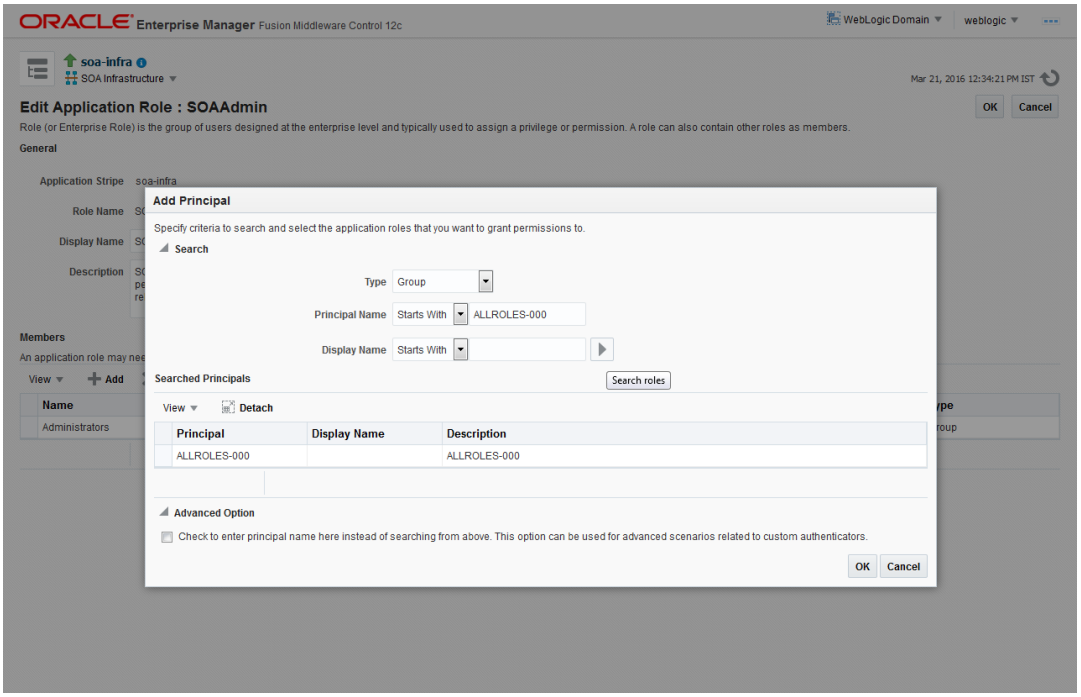
Figure 1-107 Application Role - Add Principal



5. Provide the principal name as (EX: ALLROLES-000) Param_val which is mapped to the OR_ADMINROLE in the cstb_param table and search the role. Click on **OK**.

   The **Add Principal - ALLROLES-000** pop-up window is displayed.

Figure 1-108 Add Principal - ALLROLES-000



6. Click the **OK** button.

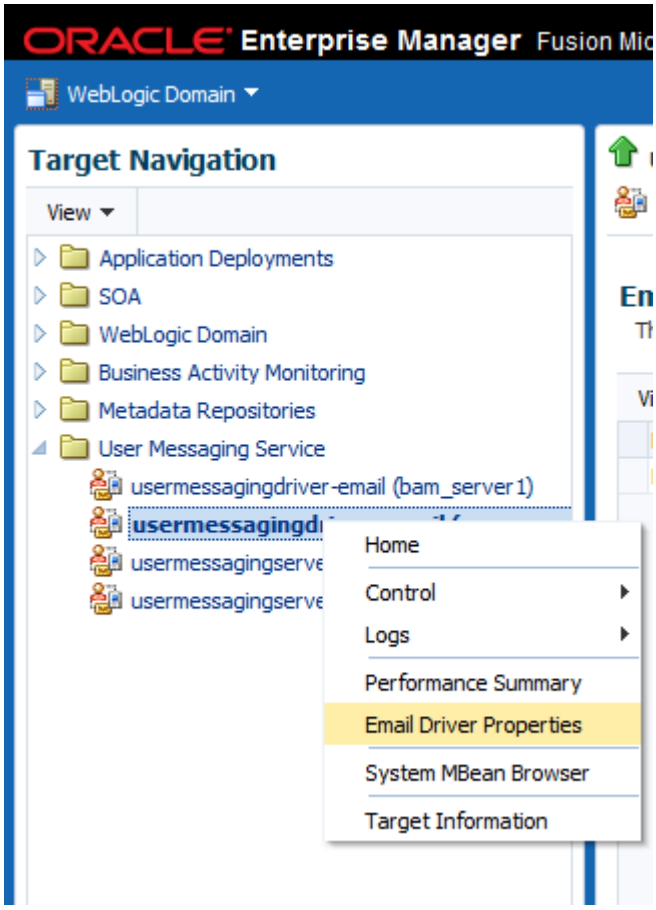
1.2.12 Email Driver Configuration

This topic explains the stps to configure the email driver.

1. Log in to EM console.
2. Navigate to **User Messaging Service** folder.
3. Right click on the **usermessagingdriver-email (soa_server1)**.
4. Click on the **Email Driver Properties**.

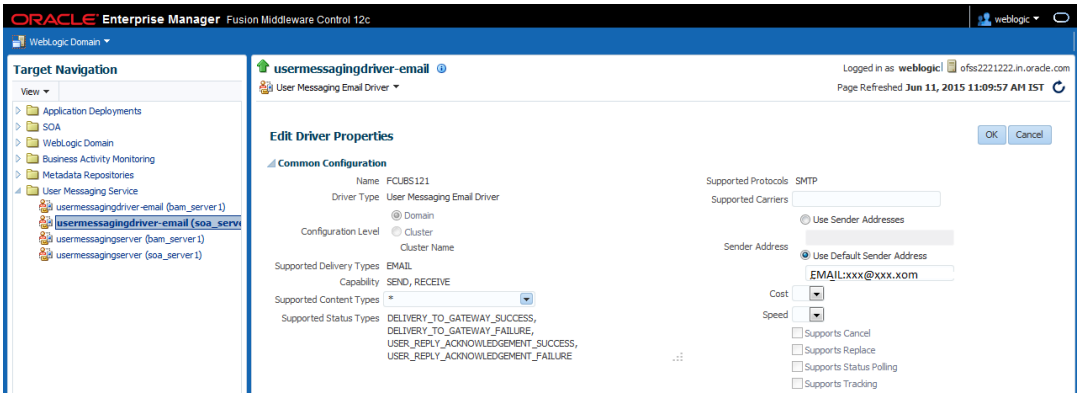
   The **usermessagingdriver-email** screen is displayed.

Figure 1-109 usermessagingdriver-email



5. Enter the **Sender Address** and **Default Sender Address** (This id will be used as sender address).
6. Enter the supported protocols (SMTP).

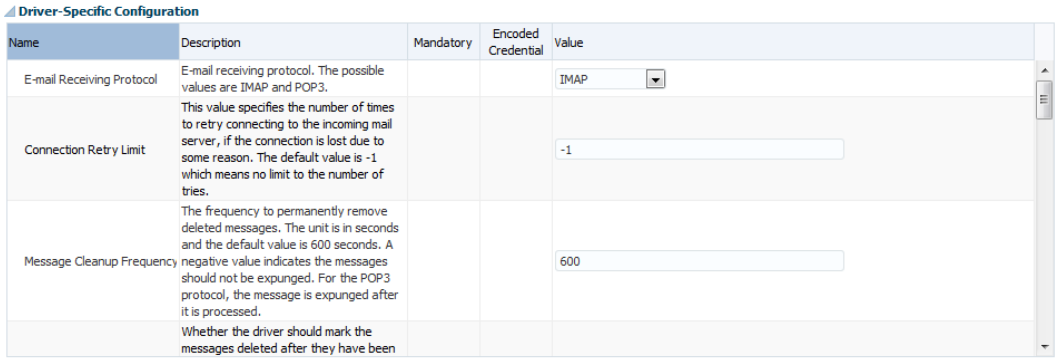
Figure 1-110 Edit Driver Properties



7. Select the mail access protocol (IMAP) as per the mail server specification.

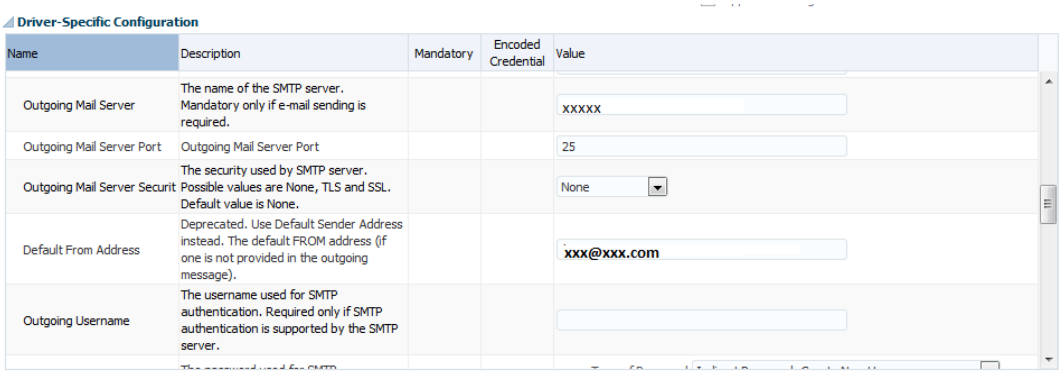
   The **Driver-Specific Configuration** screen is displayed.

Figure 1-111 Driver-Specific Configuration



8. Enter the Receive folder in the mailbox (INBOX).
9. Enter the Outgoing Mail Server hostname or IP.
10. Enter the Outgoing Mail Server Port.
11. Enter the Outgoing Default From Address.
12. Enter the Outgoing Username and Password if required.

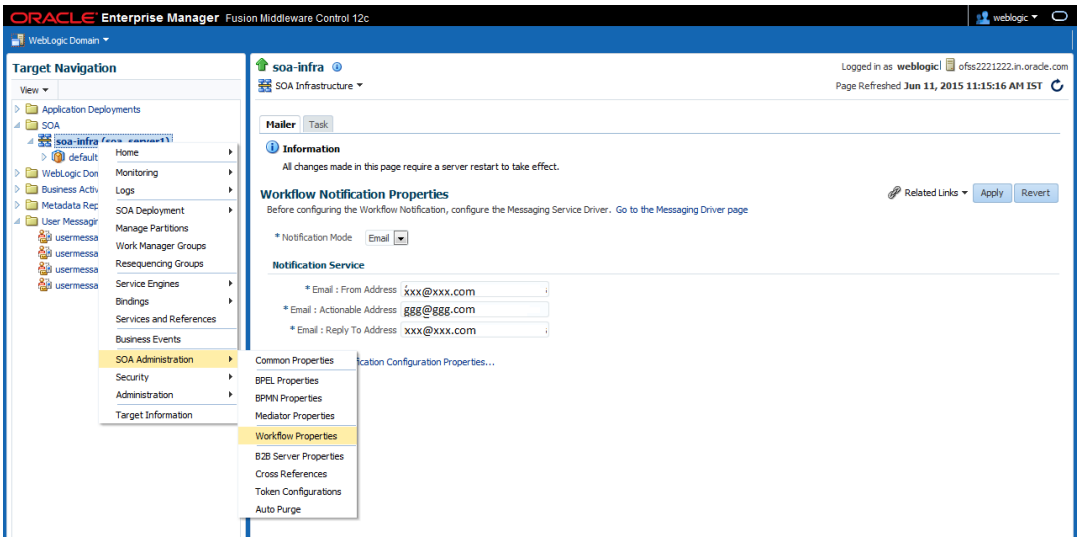
Figure 1-112 Driver-Specific Configuration - Outgoing ID



13. Navigate to the **SOA Administration** and click on the **Workflow Properties**.

    The **Workflow Notification Properties** screen is displayed.

Figure 1-113 Workflow Notification Properties



14. Select the **Notification Mode** as **Email/ALL** from the drop-down list.
15. Enter the From Address, Actionable Address, and Reply To Address.

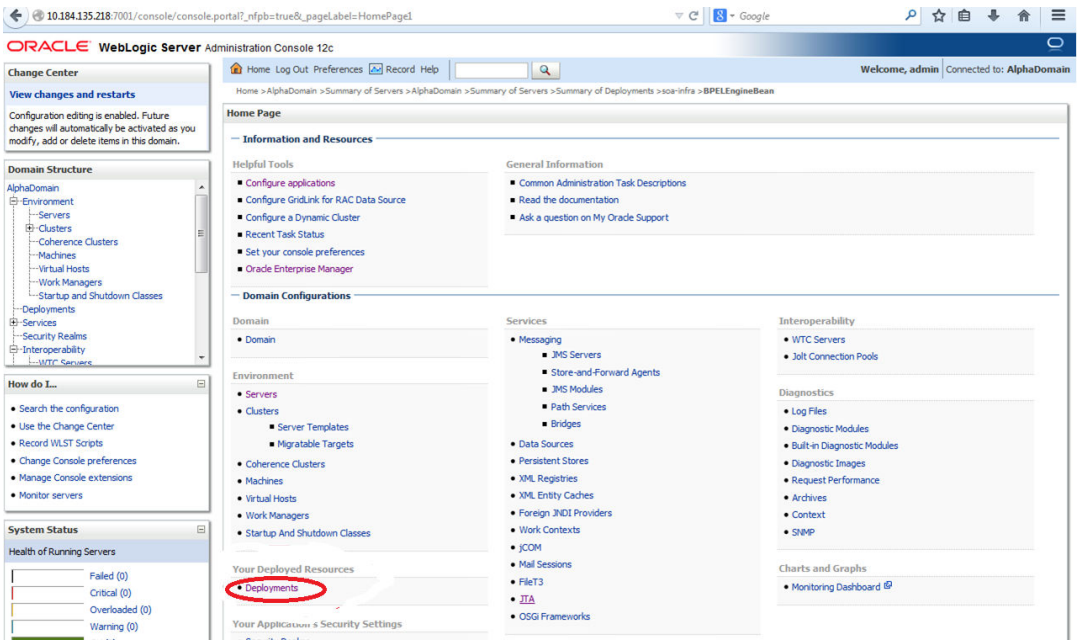
1.2.13 TimeOut Settings for BPEL

This topic explains the TimeOut Settings for BPEL.

1. Login into Console (http://hostname:port/console).

   The **WebLogic Server** homepage is displayed.

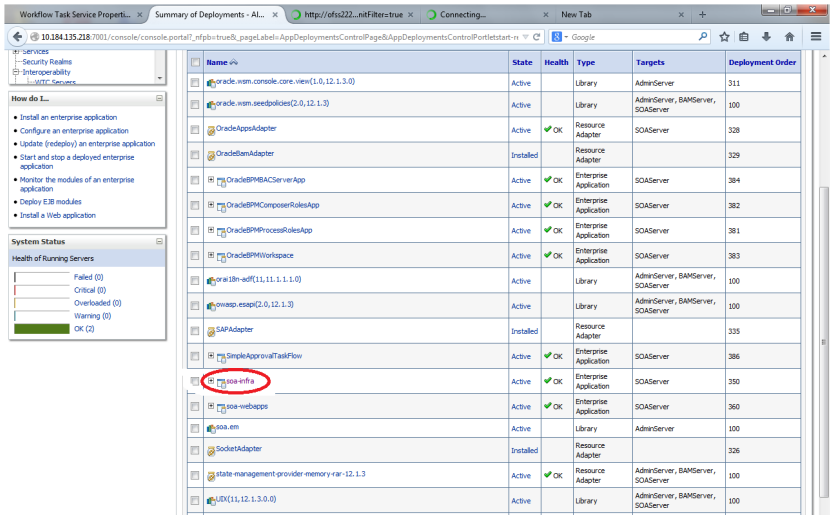
Figure 1-114 WebLogic Server



2. Click on Deployments.
3. Click on the SOA-INFRA application under deployments.

   The **Summary of Deployments** screen is displayed.

Figure 1-115 Summary of Deployments - So-Infra



4. Click on **BPEL Engine EJB**, **Configuration** and Set **Transaction TimeOut** to 300.

   The **Summary of BPELEngineBean** screen is displayed.

Figure 1-116 Summary of BPELEngineBean

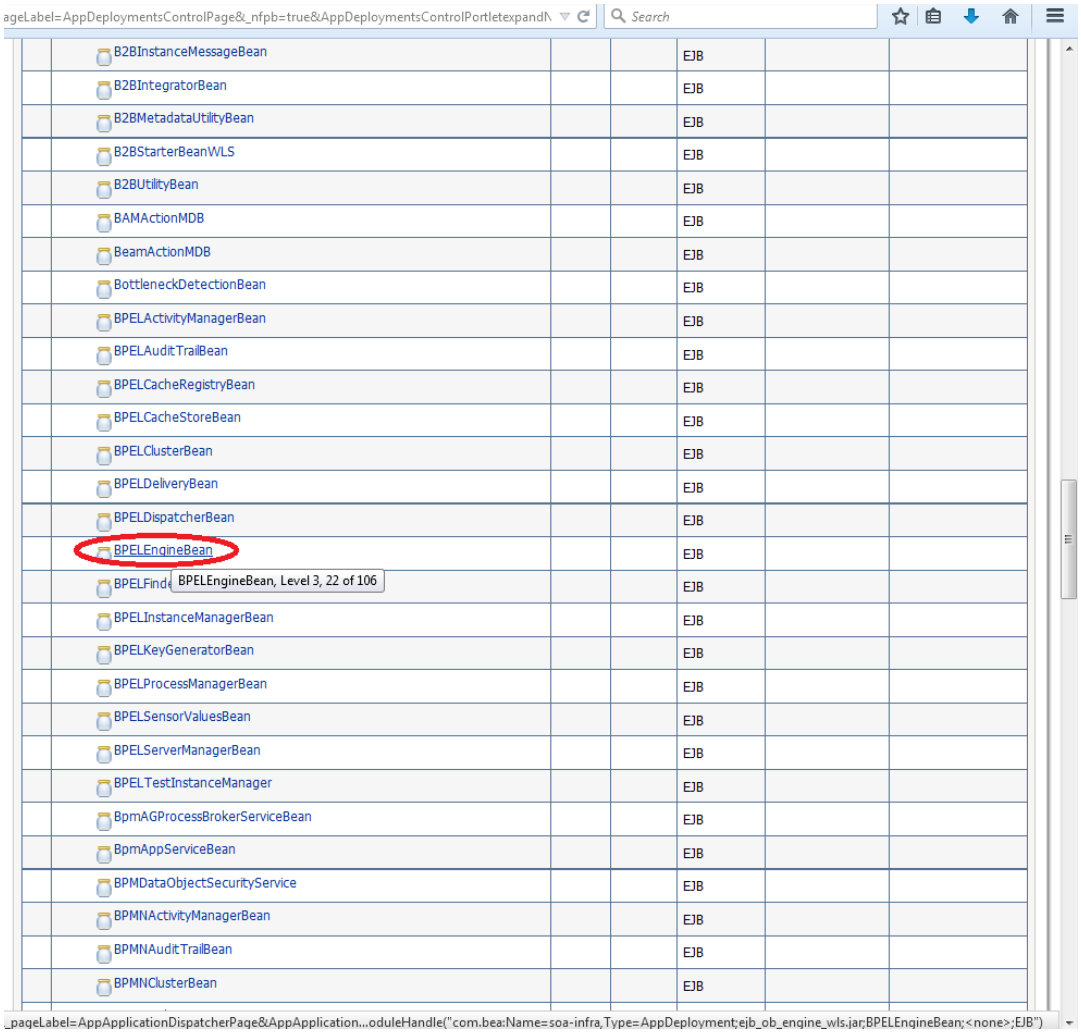
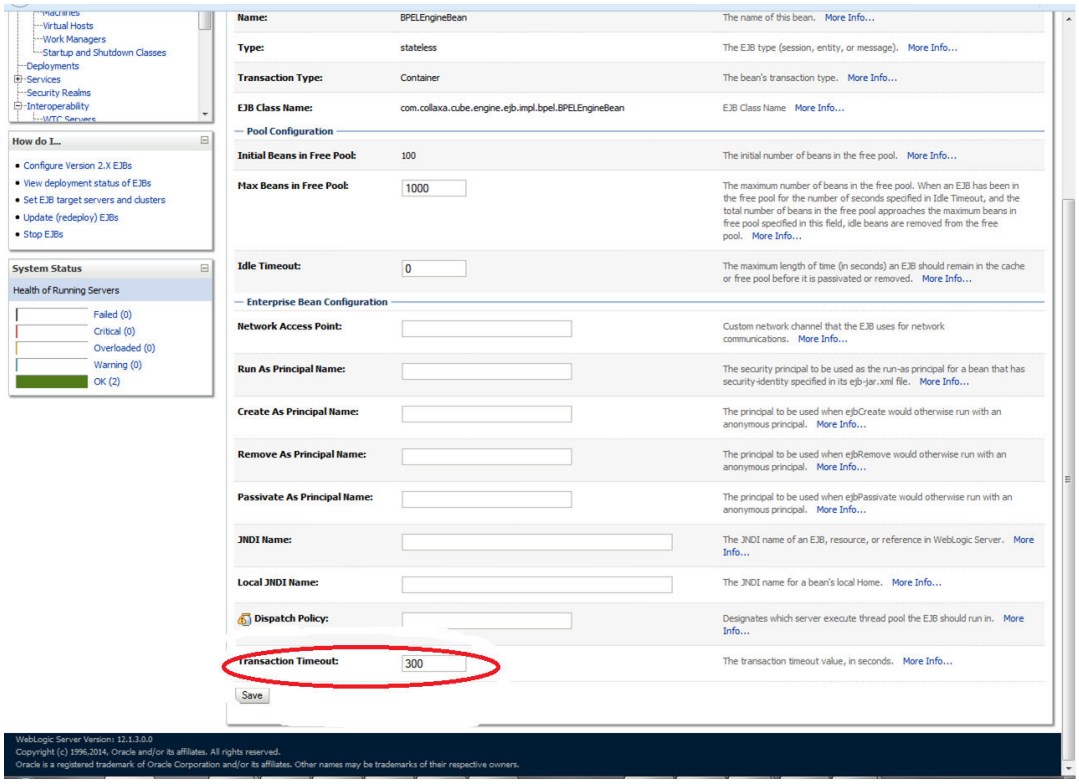


Figure 1-117 Configuration - Transaction TimeOut



5. Go to **EJBs**, click on **BPELDeliveryBean**, **Configuration** and Set **Transaction TimeOut** to 300.

   The **Summary of BPELDeliveryBean** screen is displayed.

Figure 1-118 Summary of BPELDeliveryBean

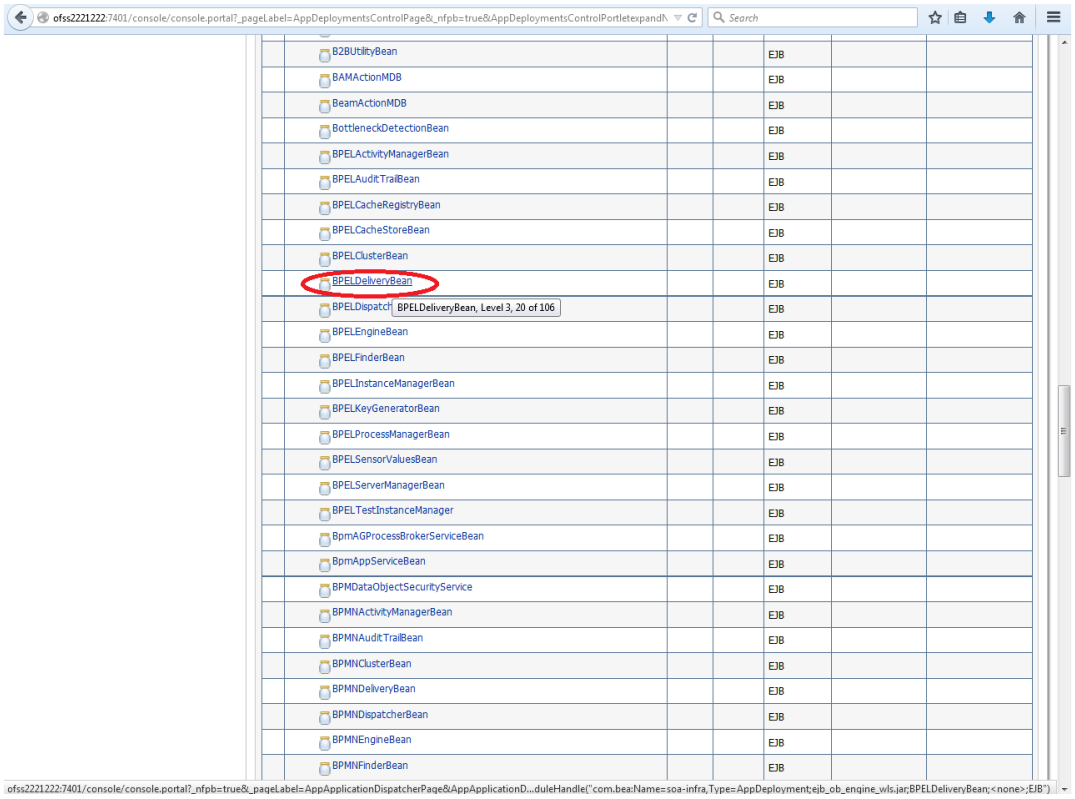
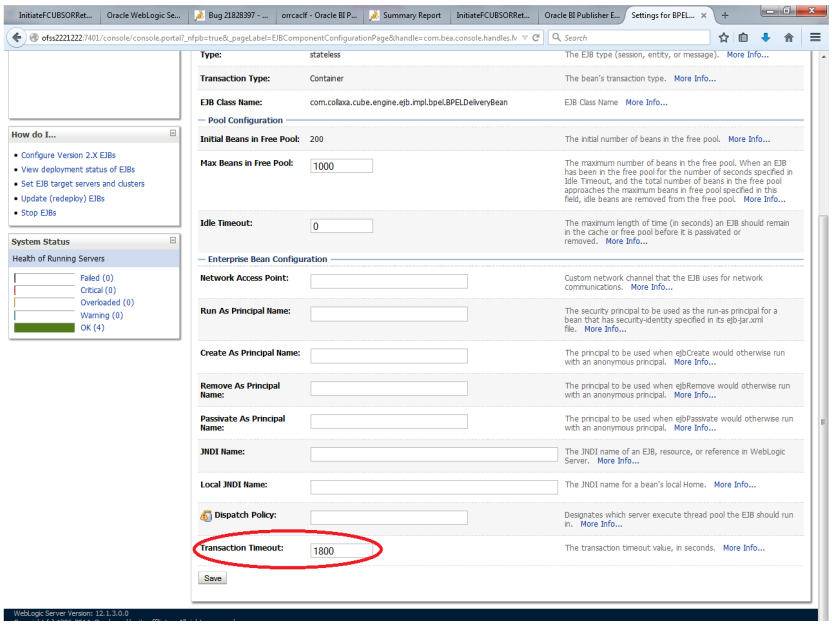


Figure 1-119 Enterprise Bean Configuration

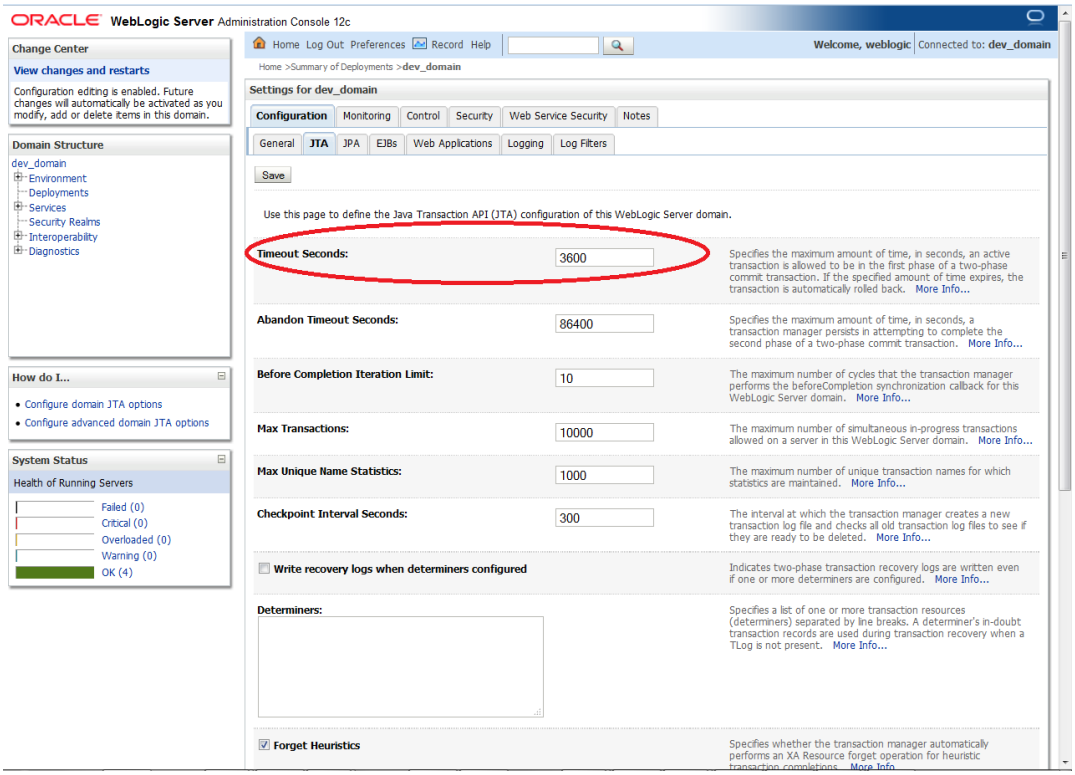


6. Login to Console and click on **JTA** under **Services**.

7. Set the JTA timeout according to the below condition. Make sure BPELEngineBean + BPELDeliveryBean is <= JTA timeout(e.g. 300+300<=600).

   The **Settings for dev_domain JTA** screen is displayed.

Figure 1-120 Settings for dev_domain - JTA



8. Login in to EM console (http://host:port/em).
9. Right click on the **soa-infra (SOAServer)**.
10. Navigate to the **SOA Administration** and click on the **BPEL Porperties**, **MoreConfigpropeties** and **SyncMaxWaitTime**. Change the **SyncMaxWaitTime** to 200 secs.

    The **soa-infra** screen is displayed.

Figure 1-121 soa-infra

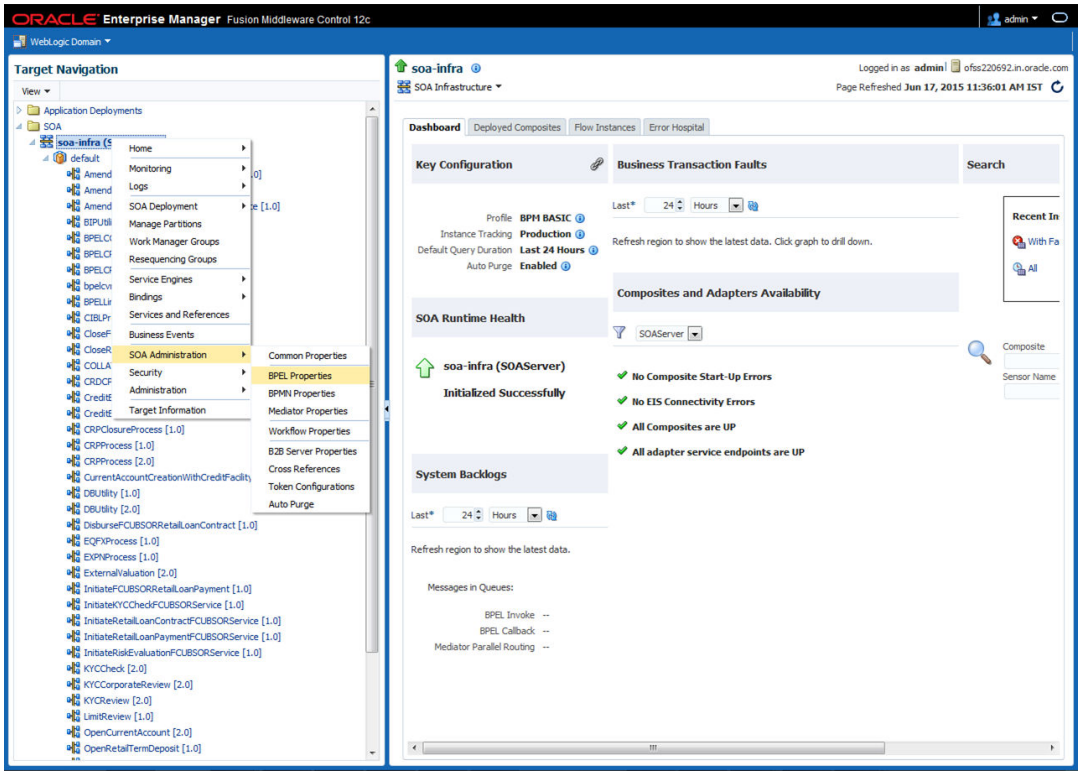
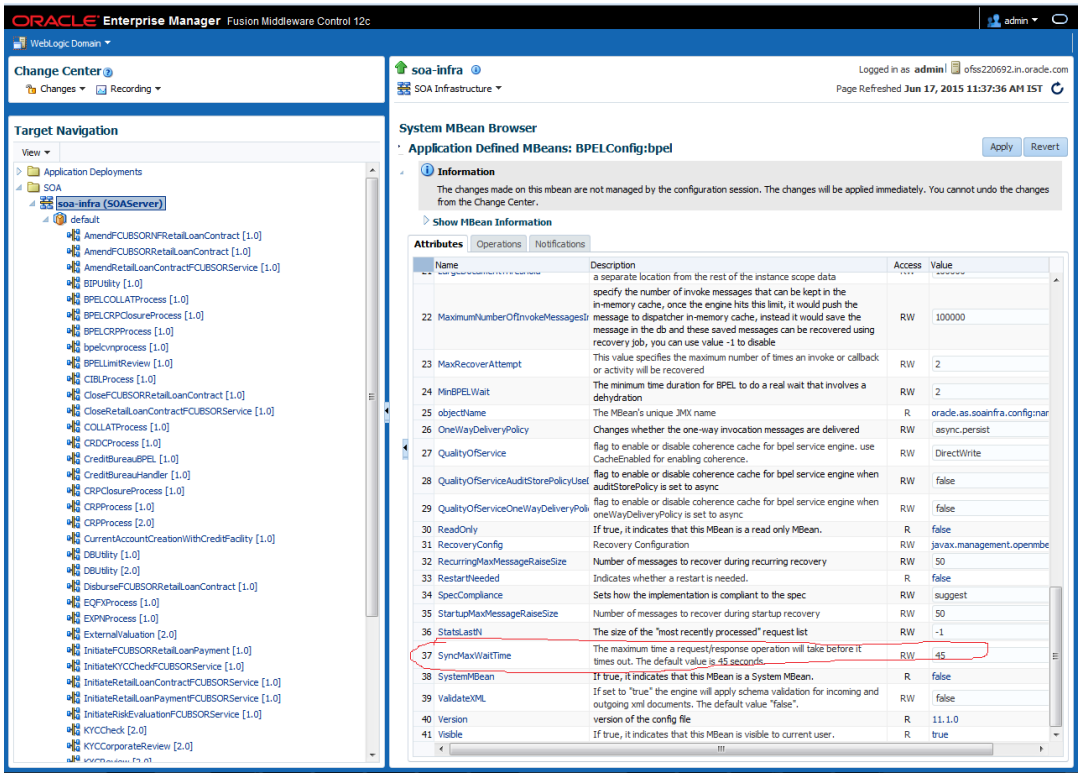


Figure 1-122 System MBean Browser



1.3 Integrate Oracle FLEXCUBE IS and Scheduler

This topic explains Integrating Oracle FLEXCUBE IS and Scheduler.

Before deploying the Oracle FLEXCUBE IS EAR file, you need to carry out the following tasks.

- Running Backend Scripts
  This topic explains the steps to run the backend scripts.

1.3.1 Running Backend Scripts

This topic explains the steps to run the backend scripts.

You need to compile certain tables pertaining to Scheduler in the schema to which the Application points. The version of Quartz to be used is Latest Qualified Version.
Follow the steps given below:

1. Download Quartz Latest Qualified **Version.gz** file from the following URL: https://www.quartz-scheduler.org/downloads/.
2. Extract the **gz** file.
3. Open the folder Quartz-Latest Qualified Version `\docs\dbTables` folder and run the tables_oracle.sql (this is specific to Oracle Database) in the schema.

For details on the latest version of the software qualified with Oracle FLEXCUBE, refer to the release certificate.

1.4 Integrating Oracle FLEXCUBE IS and BIP Reports

This topic explains Integrating Oracle FLEXCUBE IS and BIP Reports.

You can integrate Oracle FLEXCUBE IS and BIP reports. The details are available in **BIP Web Service Reports**.

- Deploy Application through Application Server's Admin Console
  This topic explains Deployment from Weblogic Administration Console.

1.4.1 Deploy Application through Application Server's Admin Console

This topic explains Deployment from Weblogic Administration Console.

You can find the details pertaining to the deployment of Application using Weblogic Administration Console in **Deploying Oracle FLEXCUBE Application on Weblogic**.

1.5 Integrate Oracle FLEXCUBE IS and MBean

This topic explains to integrate Oracle FLEXCUBE IS and MBean.

To integrate Oracle FLEXCUBE IS and MBean, you need to follow the below steps before deploying the Oracle FLEXCUBE IS EAR file created with MBean as a Plugin.

- Startup Script Modification
  This topic explains the Startup Script Modification.

1.5.1 Startup Script Modification

This topic explains the Startup Script Modification.

By default, the TopLink used in MBean uses Oracle xml parser internally. However, Weblogic Server has to use JAXPlatform.
To change the system property, follow the steps given below:

1. Go to the Weblogic domain home folder.
   a. Based on the operating system used, open **startWeblogic.cmd** or **startWeblogic.sh** from the folder **bin**.
   b. Search for WLS_REDIRECT_LOG. After %JAVA_OPTIONS% add the following code under if and else conditions.

      ```
      -Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
      ```

      Now, the details will look like this:

      ```
      if "%WLS_REDIRECT_LOG%"=="" (
      echo Starting WLS with line:
      echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
      Dweblogic.Name=%SERVER_NAME% -
      Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
      %JAVA_OPTIONS% %PROXY_SETTINGS% %SERVER_CLASS%
      %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
      Dweblogic.Name=%SERVER_NAME% -
      Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
      %JAVA_OPTIONS% -
      Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
      %PROXY_SETTINGS% %SERVER_CLASS%
      ) else (
      echo Redirecting output from WLS window to %WLS_REDIRECT_LOG%
      %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
      Dweblogic.Name=%SERVER_NAME% -
      Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
      %JAVA_OPTIONS% -
      Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
      %PROXY_SETTINGS% %SERVER_CLASS% >"%WLS_REDIRECT_LOG%" 2>&1
      )
      ```

2. Restart the Weblogic server.