

Setting up Plug-Ins  
Oracle FLEXCUBE Investor Servicing  
Release 12.4.0.0.0  
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# 1. Setting up Plug-Ins

## 1.1 Introduction

You 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.

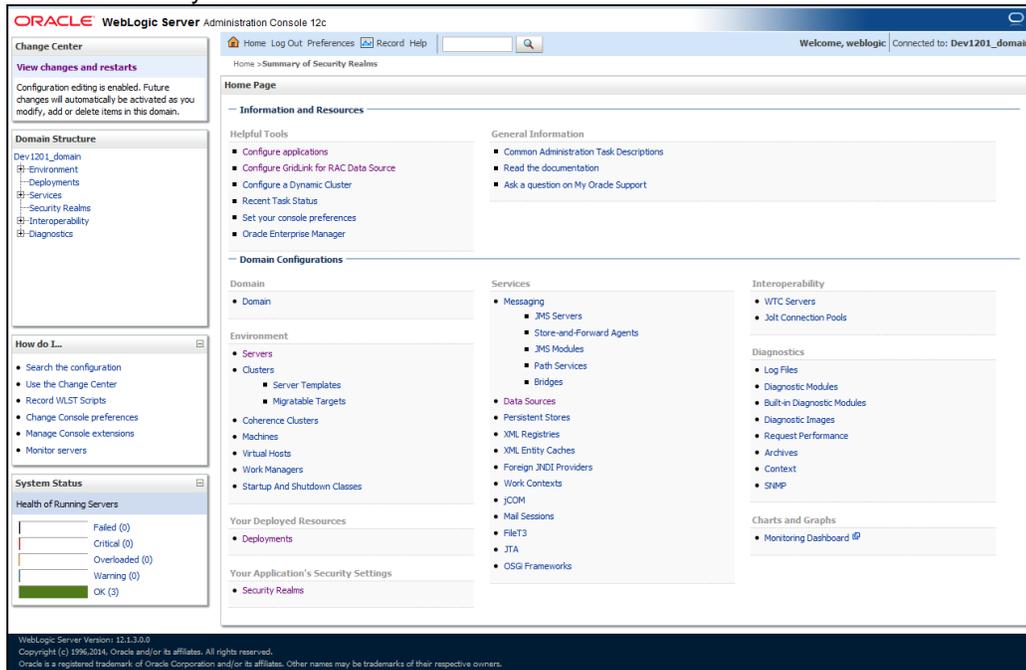
## 1.2 Integrating Oracle FLEXCUBE IS and BPEL

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 'FCBPELCIS.jar' file. You need to complete the following tasks before deploying Oracle FLEXCUBE IS EAR file.

### 1.2.1 Custom Provider Configuration

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 FCIS Ear file, Installer creates FCUBSAuthenticationProvider.jar file. Copy this files to <ORACLE\_HOME>\wlserver\server\lib\mbeantypes
2. Restart the Admin Server
3. Login to the Console
4. Click on Security Realms.



5. Click on myrealm.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of Security Realms". It contains a table with the following data:

Name	Default Realm
myrealm	true

The "myrealm" entry is highlighted. The interface also includes a left-hand navigation pane with "Security Realms" selected, and a "How do I..." section with links to "Configure new security realms", "Delete security realms", and "Change the default security realm".

6. Click on Providers tab and click on new button to create new authentication provider.

7. Give Provider name as FCJCustomProvider and type as FCUBSUserAuthenticator.

The screenshot shows the "Create a New Authentication Provider" dialog box in the Oracle WebLogic Server Administration Console. The dialog contains the following information:

- Title:** Create a New Authentication Provider
- Message:** The following properties will be used to identify your new Authentication Provider.
- Field 1:** \* Name: FCJCustomProvider
- Field 2:** This is the type of authentication provider you wish to create. Type: FCUBSUserAuthenticator

The dialog has "OK" and "Cancel" buttons at the bottom.

8. Click Reorder to bring provider to first of all providers and click OK.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: Dev1201\_domain

Home > Summary of Security Realms > myrealm > Providers > FCJCustomProvider > Providers

Messages

Create operation cancelled - no Authentication Providers created.

Settings for myrealm

Configuration Users and Groups Roles and Policies Credential Mappings **Providers** Migration

Authentication Password Validation Authorization Adjudication Role Mapping Auditing Credential Mapping Certification Path Keystores

An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS. You can also configure a Realm Adapter Authentication provider that allows you to work with users and groups from previous releases of WebLogic Server.

Customize this table

Authentication Providers

New Delete **Reorder** Showing 1 to 4 of 4 Previous Next

Name	Description	Version
FCJCustomProvider	Authentication provider for FLEXCLURE users	FCJBS 12.1
Trust Service Identity Asserter	Trust Service Identity Assertion Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

New Delete Reorder Showing 1 to 4 of 4 Previous Next

WebLogic Server Version: 12.1.3.0.0  
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**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: Dev1201\_domain

Home > Summary of Security Realms > myrealm > Providers > FCJCustomProvider > Providers

Reorder Authentication Providers

OK Cancel

Reorder Authentication Providers

You can reorder your Authentication Providers using the list below. By reordering Authentication Providers, you can alter the authentication sequence.

Select authenticator(s) in the list and use arrows to move them up and down in the list.

Authentication Providers

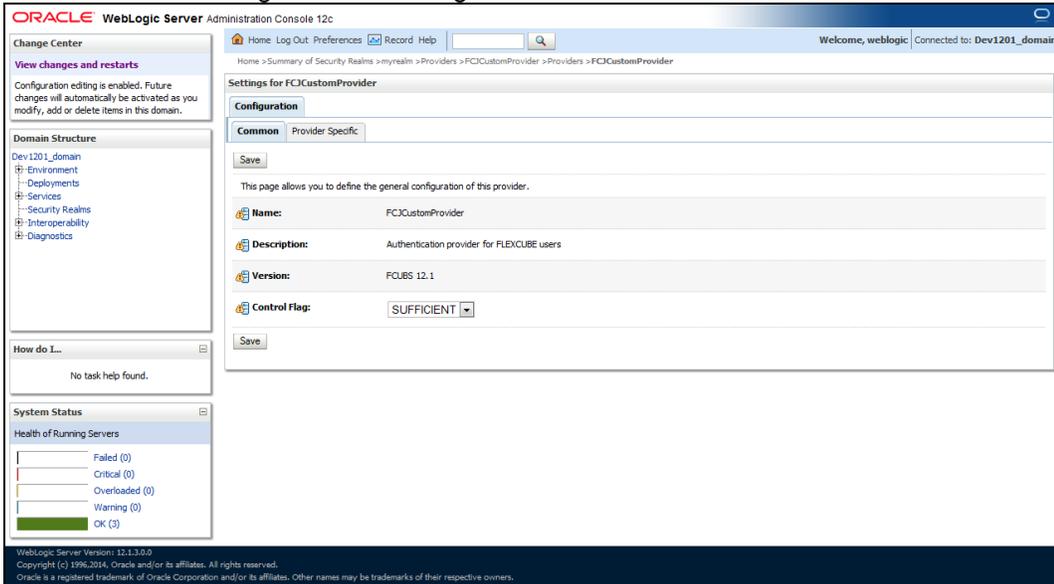
Available:

- FCJCustomProvider
- Trust Service Identity Asserter
- DefaultAuthenticator
- DefaultIdentityAsserter

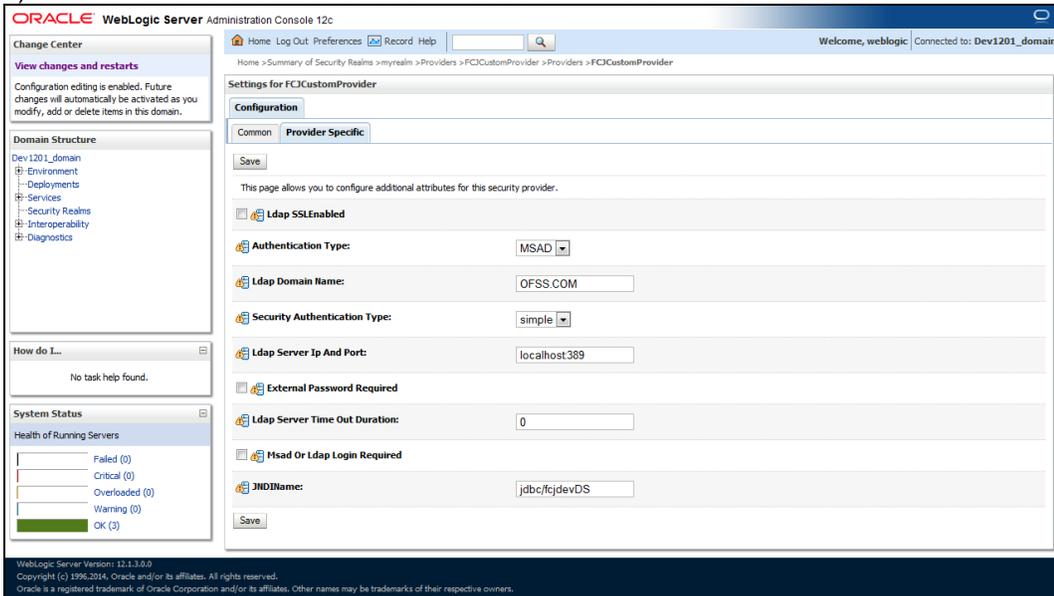
OK Cancel

WebLogic Server Version: 12.1.3.0.0  
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9. Click on FCJCustomProvider.
10. In Common tab change the control flag to "SUFFICIENT".



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



12. For manually editing the config.xml go to <ORACLE\_HOME>\Middleware\user\_projects\domains\base\_domain\config\ path. Open 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 Configuring libovd for Single Entity

You need to configure the libovd details. Follow the steps given below:

- Along with the Oracle FLEXCUBE IS EAR file, the Installer creates 'FCBPELCIS.jar' file.
- Create a folder by name 'classes' at the location '`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x'`.
- Extract the file 'FCBPELCIS.jar' and copy the content of the folder 'com' to: '`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes'`.
- Navigate to the location '`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes\com\ofss\fcc\bpe\cac'`'. Edit the properties file 'CISProperties.properties' and update 'JNDI.name' with the JNDI name defined in the properties file 'fcubs.properties'.
- Copy 'FCBPELCIS.jar' to '`<MIDDLEWARE_HOME>/user_projects/domains/<domain_name>/config/fmwconfig/ovd/plugins/lib'`. Create the directory structure if it does not exist.
- Copy the fcubs\_adapter.xml to '`<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/'`



fcubs\_adapter.xml

- Search for <FCUBSDATASOURCE> in fcubs\_adapter.xml and update it with fcubs Datasource name.

- Execute "libovdadapterconfig" script which is present in '`<MIDDLEWARE_HOME>/oracle_common/bin`' with below parameters. Update the 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>
```

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

### 1.2.3 **Configuring libovd for MultiEntity**

- Continue step 1 to step5 from 1.2.2 section.
- In the following steps replace the `<EntityId>` tag with the proper Entity name.
- Copy the `fcubs_adapter_<EntityId>.xml` to '`<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/`



`fcubs_adapter_EntityId.xml`

- 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>"/>`

- Search for UserIdPattern Parameter and Update the value for OU to the entity name.

EX: `<param name="UserIdPattern" value="cn=%USERID%,ou=<EntityId>,dc=oracle,dc=com"/>`

- Search for MultiEntityEnabled element and update the value to true.

EX: `<param name="MultiEntityEnabled" value="true"/>`

- Search for EntityId element and update the value with the entity name which we have created.

EX: `<param name="EntityId" value=" <EntityId >"/>`

- Execute "libovdadapterconfig" script which is present in '`<MIDDLEWARE_HOME>/oracle_common/bin`' with below parameters. 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>
```

- Repeat from step2 to step7for each entity creation

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

## 1.2.4 Configuring for Multiple Providers for Multiple Entities

1. Login to the Adminserver.
2. Click on security Realms.

The screenshot displays the Oracle WebLogic Server Administration Console interface. On the left, the 'Domain Structure' tree shows the hierarchy: soa\_domain > Environment > Security Realms. Below this, the 'System Status' section shows the health of running servers, with 3 servers in an 'OK' state. The main content area is titled 'Information and Resources' and contains several sections: 'Helpful Tools' (with links like 'Configure applications'), 'Domain Configurations' (with a link to 'Domain'), 'Domain Partitions' (with links to 'Domain Partitions' and 'Partition Work Managers'), 'Environment' (with links to 'Servers', 'Clusters', 'Coherence Clusters', 'Machines', 'Virtual Hosts', 'Virtual Targets', 'Work Managers', 'Concurrent Templates', 'Resource Management', and 'Startup And Shutdown Classes'), 'Application's Security Settings' (with a red box highlighting 'Security Realms'), 'General Information' (with links like 'Common Administration Task Descriptions'), 'Resource Group Templates' (with a link to 'Resource Group Templates'), 'Resource Groups' (with a link to 'Resource Groups'), 'Deployed Resources' (with a link to 'Deployments'), 'Services' (with links to 'Messaging', 'JMS Servers', 'Store-and-Forward Agents', 'JMS Modules', 'Path Services', 'Bridges', 'Data Sources', 'Persistent Stores', 'XML Registries', 'XML Entity Caches', 'Foreign JNDI Providers', 'Work Contexts', 'JCOM', 'Mail Sessions', 'FileT3', 'JTA', and 'OSGI Frameworks'), 'Interoperability' (with links to 'WTC Servers' and 'Jolt Connection Pools'), 'Diagnostics' (with links to 'Log Files', 'Diagnostic Modules', 'Built-in Diagnostic Modules', 'Diagnostic Images', 'Request Performance', 'Archives', 'Context', 'SNMP', and 'Interceptors'), and 'Charts and Graphs' (with a link to 'Monitoring Dashboard'). At the bottom left, the version information is displayed: 'WebLogic Server Version: 12.2.1.0.0 Copyright (c) 1996-2015, Oracle and/or its affiliates. All rights reserved.'

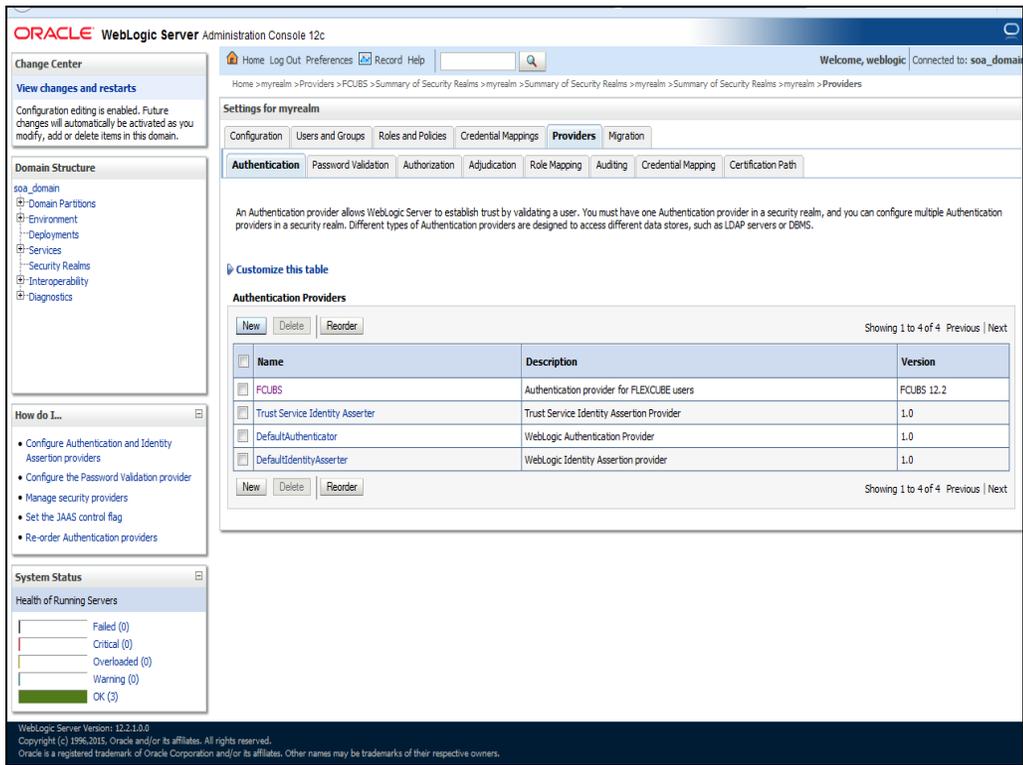
3. Click on myrealms.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains navigation menus for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main content area is titled 'Summary of Security Realms'. It includes a breadcrumb trail: Home > Summary of Servers > Summary of Security Realms > myrealm > Providers > FCUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms. Below the breadcrumb, there is a table with one row for 'myrealm' and a 'Default Realm' column set to 'true'. The table has 'New' and 'Delete' buttons above and below it. The status bar at the bottom indicates 'Showing 1 to 1 of 1 Previous | Next'.

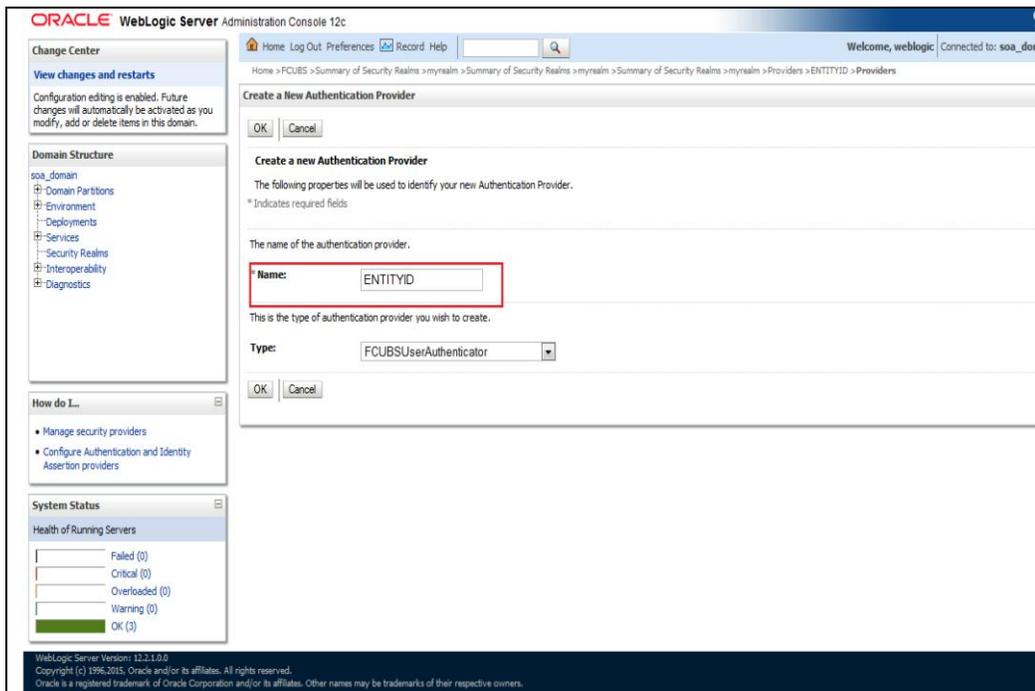
4. Click on Providers.

The screenshot shows the 'Settings for myrealm' page in the Oracle WebLogic Server Administration Console. The breadcrumb trail is: Home > Summary of Servers > Summary of Security Realms > myrealm > Providers > FCUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm. The 'Providers' tab is selected and highlighted with a red box. The page contains configuration options for 'myrealm', including 'Name', 'Security Model Default' (set to 'DD Only'), 'Combined Role Mapping Enabled' (checked), 'Use Authorization Providers to Protect JMX Access' (unchecked), and 'Automatically Restart After Non-Dynamic Changes' (unchecked). A 'Retire Timeout' field is set to '60'. The 'Advanced' section is collapsed. The 'Save' button is visible at the bottom.

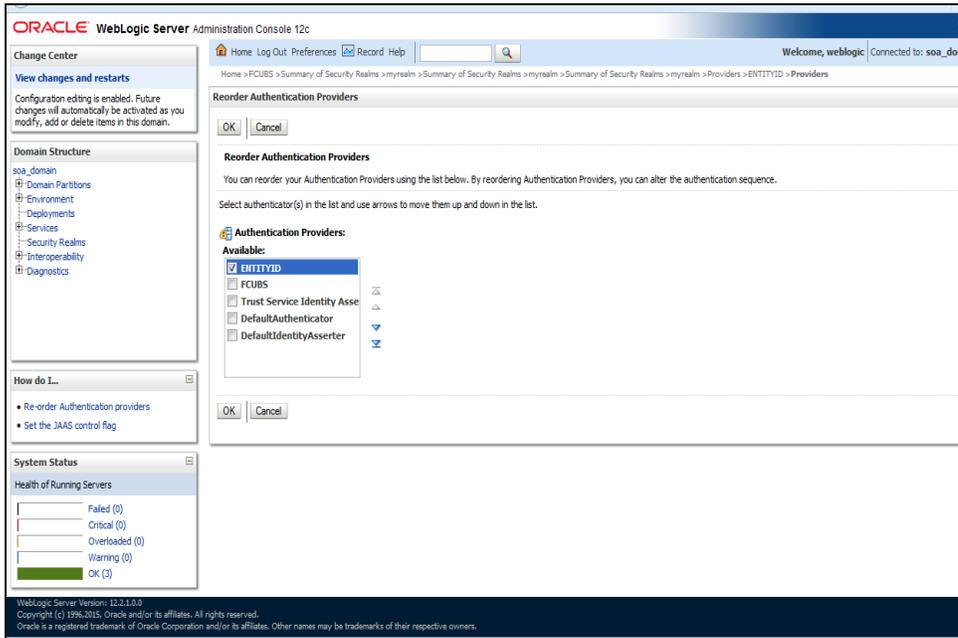
5. Click on New



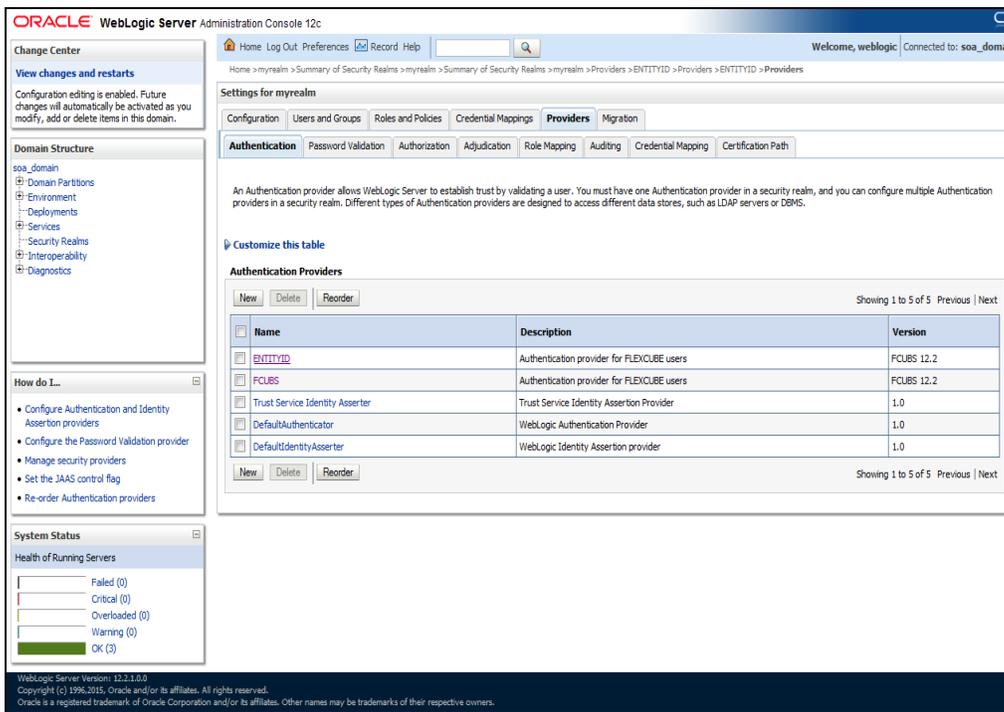
6. Enter the Name with proper Entity Name (entity name we mapped in propertyfile) and select the type as FCUBSUserAuthenticator



- Click 'Reorder. Authentication Providers. Select the required option in 'Available' field and click Ok.



- Click the Provider that we have created.



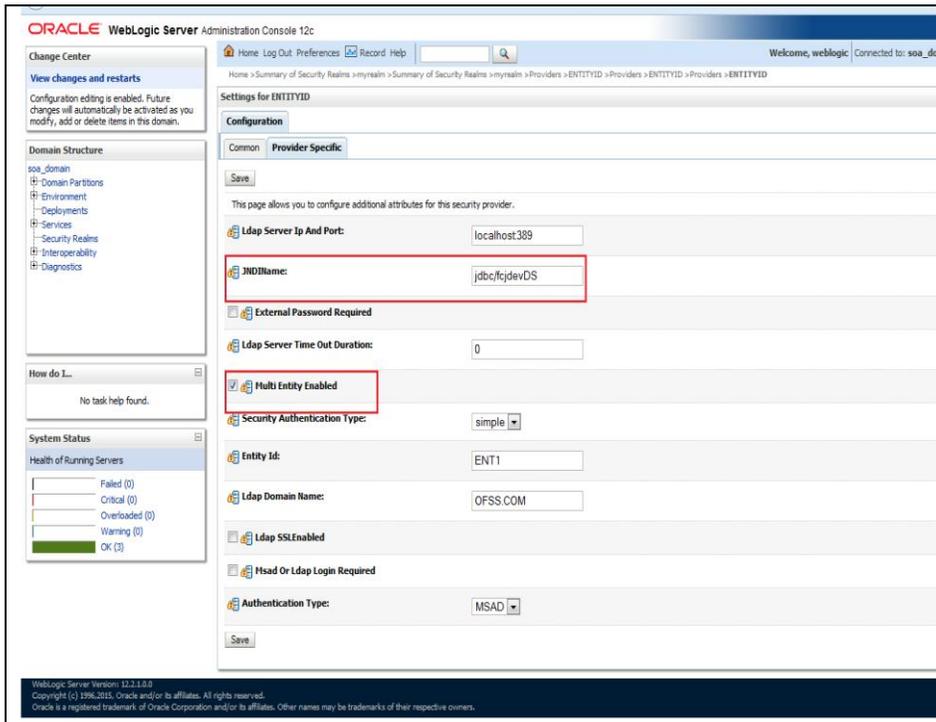
9. In Common tab, select the control flag as SUFFICIENT from the list and click Save.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains navigation menus for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main content area is titled 'Settings for ENTITYID' and has a 'Configuration' sub-tab with 'Common' and 'Provider Specific' sub-tabs. The 'Common' tab is active, showing a 'Save' button at the top, a description of the page, and several configuration fields: 'Name' (ENTITYID), 'Description' (Authentication provider for FLEXCUBE users), 'Version' (FCUBS 12.2), and 'Control Flag' (SUFFICIENT). A second 'Save' button is at the bottom of the configuration area. The footer contains version and copyright information.

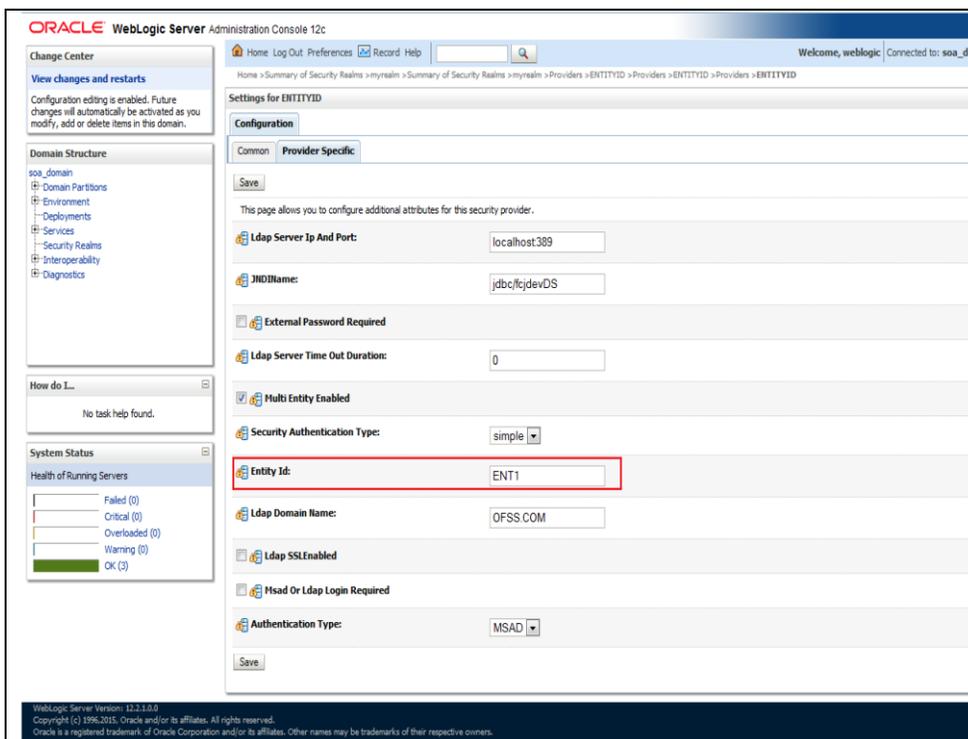
10. Select the provider Specific tab.

The screenshot shows the Oracle WebLogic Server Administration Console with the 'Settings for ENTITYID' page in the 'Provider Specific' sub-tab. The 'Common' sub-tab is also visible. The 'Provider Specific' tab contains several configuration fields: 'Ldap Server Ip And Port' (localhost389), 'JNDIName' (jdbc/ocjdevDS), 'External Password Required' (checkbox), 'Ldap Server Time Out Duration' (0), 'Multi Entity Enabled' (checkbox), 'Security Authentication Type' (simple), 'Entity Id' (ENT1), 'Ldap Domain Name' (OFSS.COM), 'Ldap SSL Enabled' (checkbox), 'Msad Or Ldap Login Required' (checkbox), and 'Authentication Type' (MSAD). There are 'Save' buttons at the top and bottom of the configuration area. The footer contains version and copyright information.

11. Change the JNDI name to the Datasource JNDI name which have mapped to the entity in the property file level and check the multi entity enabled checkbox.



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



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 the step1 to step15 for each provider creation in multi entity scenario.

## 1.2.5 Configuring DBAdapter

In order to configure DBAdapter, follow the steps given below.

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Summary of Deployments' and contains a table of applications and modules. The table has columns for Name, State, Health, Type, Targets, and Deployment Order. The 'DBAdapter' application is highlighted in red, indicating it is the focus of the configuration step.

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bus	Active	OK	Enterprise Application	soa_server1	313
BamComposer	New		Enterprise Application	bam_server1	500
BamCQService	New		Enterprise Application	bam_server1	300
BamServer	New		Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
<b>DBAdapter</b>	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSApp (12.1.0.0)	Prepared	OK	Enterprise Application	soa_server1	500

- In the Deployments table, select 'DbAdapter'. You will be navigated to 'Settings for DbAdapter'.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for DbAdapter' and has several tabs: Overview, Deployment Plan, Configuration (selected), Security, Targets, Control, Testing, Monitoring, and Notes. Under the 'Configuration' tab, there are sub-tabs: General, Properties, Outbound Connection Pools (selected), Admin Objects, Workload, and Instrumentation. A text block explains that the page displays a table of Outbound Connection Pool groups and instances. Below this is a table with the following content:

Outbound Connection Pool Configuration Table	
<div style="display: flex; justify-content: space-between;"> <span>New Delete</span> <span>Showing 1 to 1 of 1 Previous Next</span> </div>	
Groups and Instances	Connection Factory Interface
<ul style="list-style-type: none"> <li>javax.resource.cci.ConnectionFactory</li> </ul>	javax.resource.cci.ConnectionFactory
<div style="display: flex; justify-content: space-between;"> <span>New Delete</span> <span>Showing 1 to 1 of 1 Previous Next</span> </div>	

On the left side of the console, there is a 'Domain Structure' tree showing 'Dev1201\_domain' expanded to 'Deployments'. Below it is a 'System Status' section showing 'Health of Running Servers' with a bar chart indicating 2 servers are 'OK'.

- Click 'Configuration' tab and select 'Outbound Connection Pools' under it.
- Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
- Click 'New' and select 'javax.resource.cci.ConnectionFactory' in Outbound Connection Group.
- Define 'JNDI Name' as 'eis/DB/FCCDEV' and click on 'Finish'.



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

- Click 'DbAdapter' again. The new JNDI name is listed.

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the configuration for 'javax.resource.cci.ConnectionFactory'. The 'Outbound Connection Properties' table is as follows:

Property Name	Property Type	Property Value	Supports Dynamic Updates
DataSourceName	java.lang.String	jdbc/fcdev/OS	false
DefaultCharset	java.lang.Boolean	false	false
PlatformClassName	java.lang.String	org.eclipse.persistence.platform.database.Oracle10Platform	false
SequencePreallocationSize	java.lang.Integer	50	false
UsesBatchWriting	java.lang.Boolean	true	false
UsesNativeSequencing	java.lang.Boolean	true	false
UsesSkipLocking	java.lang.Boolean	true	false
XADataSourceName	java.lang.String		false

9. Click the 'Property Value' field for the 'DataSourceName' and update the application JNDI reference (given in 'fcubs.properties' file) and then press 'Enter' key.

10. Save and restart the Adminserver.

## 1.2.6 Configuring JMS Adapter

Login in to console → Click on JMS Servers→New

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of JMS Servers' page. The 'Services' section is expanded, and the 'JMS Servers' link is highlighted with a red circle.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Home > AlphaDomain > Summary of JMS Servers

### Summary of JMS Servers

JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them. This page summarizes the JMS servers that have been created in the current WebLogic Server domain.

Customize this table

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

New Delete Showing 1 to 8 of 8 Previous | Next

Name	Persistent Store	Target	Current Target	Health
BamAlertEngineJmsServer	BamAlertEngineJmsFileStore	BAMServer	BAMServer	
BamCQServiceJmsServer_BAMServer	BamCQServiceJmsFileStore_BAMServer	BAMServer	BAMServer	
BamReportCacheJmsServer	BamReportCacheJmsFileStore	BAMServer	BAMServer	
BamServerJmsServer_BAMServer	BamServerJmsFileStore_BAMServer	BAMServer	BAMServer	
BPMJMServer	BPMJMSFileStore	SOAServer	SOAServer	OK
SOAJMServer	SOAJMSFileStore	SOAServer	SOAServer	OK
UMSJMServer_auto_1	UMSJMSFileStore_auto_1	BAMServer	BAMServer	
UMSJMServer_auto_2	UMSJMSFileStore_auto_2	SOAServer	SOAServer	OK

New Delete Showing 1 to 8 of 8 Previous | Next

WebLogic Server Version: 12.1.3.0.0  
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11. Please provide the below Name for JMS Server and select the file persistent store as below→Next

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Home > AlphaDomain > Summary of JMS Servers

### Create a New JMS Server

Back Next Finish Cancel

#### JMS Server Properties

The following properties will be used to identify your new JMS Server.  
\* Indicates required fields

What would you like to name your new JMS Server?

Name:

Specify persistent store for the new JMS Server.

Persistent Store:

Back Next Finish Cancel

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## 12. Select the target as SOA Server → Finish

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin | Connected to: AlphaDomain

AlphaDomain > Summary of JMS Servers

### Create a New JMS Server

Back Next Finish Cancel

**Select targets**

Select the server instance or migratable target on which you would like to deploy this JMS Server.

**Target:** SOA Server

Back Next Finish Cancel

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**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin | Connected to: AlphaDomain

AlphaDomain > Summary of JMS Servers

Messages

- All changes have been activated. No restarts are necessary.
- JMS Server created successfully

### Summary of JMS Servers

JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them.

This page summarizes the JMS servers that have been created in the current WebLogic Server domain.

Customize this table

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

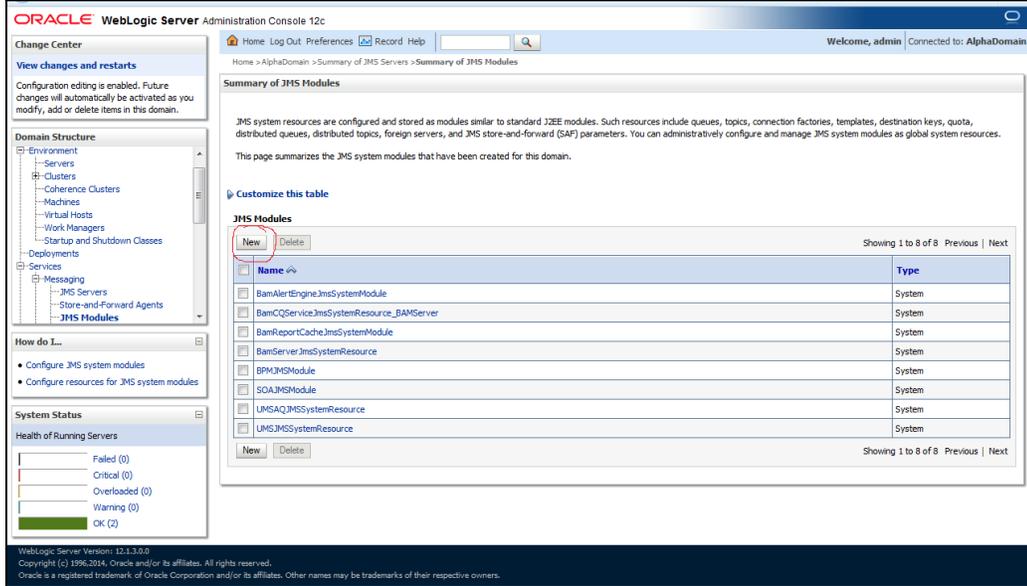
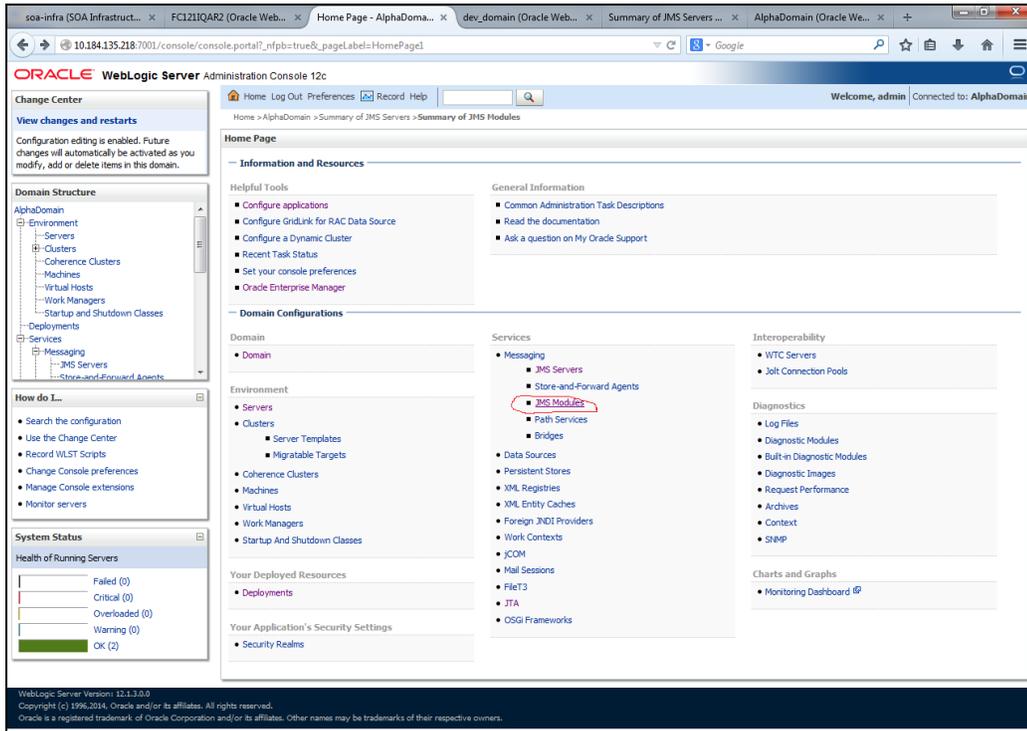
New Delete Showing 1 to 9 of 9 Previous | Next

Name	Persistent Store	Target	Current Target	Health
BanAlertEngine.JMS Server	BanAlertEngine.JMSFileStore	BAMServer	BAMServer	
BanCQService.JMS Server_BAMServer	BanCQService.JMSFileStore_BAMServer	BAMServer	BAMServer	
BanReportCache.JMS Server	BanReportCache.JMSFileStore	BAMServer	BAMServer	
BanServer.JMS Server_BAMServer	BanServer.JMSFileStore_BAMServer	BAMServer	BAMServer	
BPM.JMS Server	BPM.JMSFileStore	SOA Server	SOA Server	OK
<b>FCUBS.JMS Server</b>	<b>SOA.JMSFileStore</b>	<b>SOA Server</b>	<b>SOA Server</b>	<b>OK</b>
SOA.JMS Server	SOA.JMSFileStore	SOA Server	SOA Server	OK
UMS.JMS Server_auto_1	UMS.JMSFileStore_auto_1	BAMServer	BAMServer	
UMS.JMS Server_auto_2	UMS.JMSFileStore_auto_2	SOA Server	SOA Server	OK

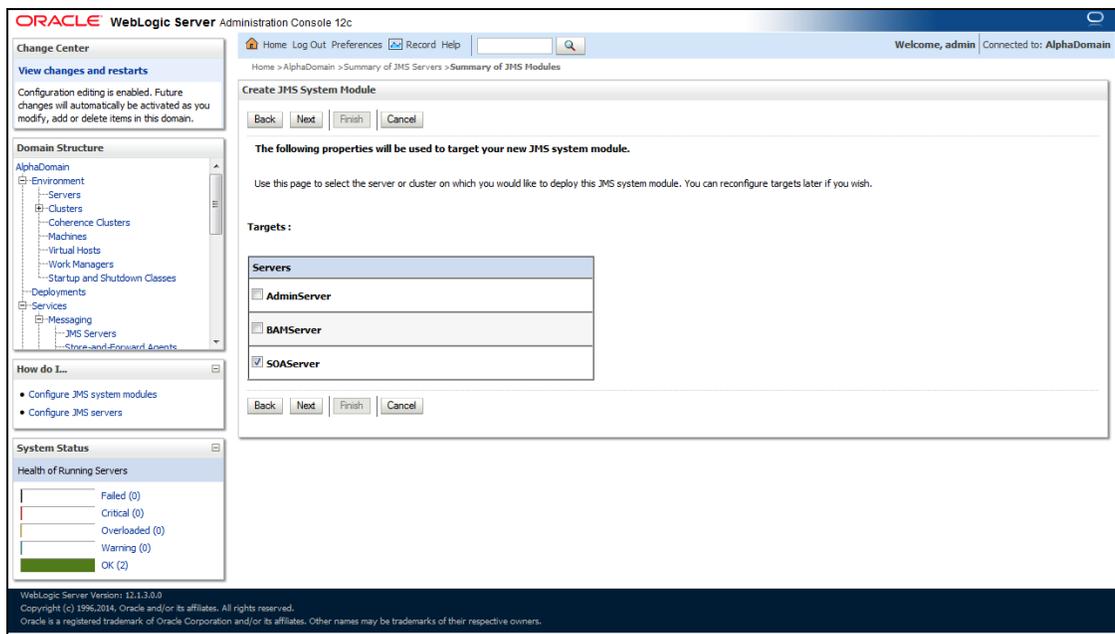
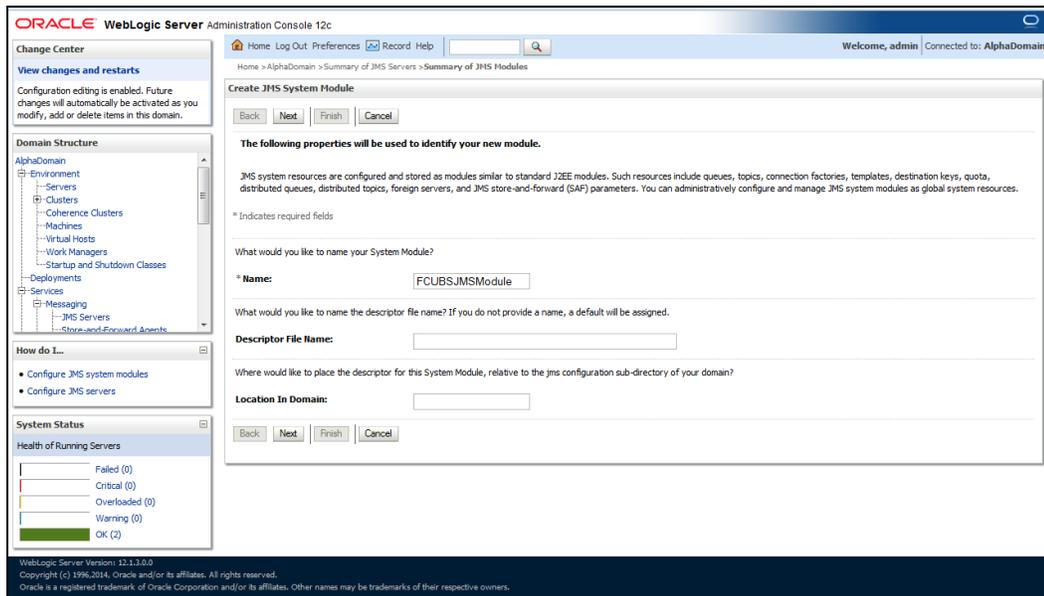
New Delete Showing 1 to 9 of 9 Previous | Next

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4. Go back to Console → JMS Modules → New



5. Create a JMS Module with the below Name→Next→Select the target as SOA Server→Finish



**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

Home > AlphaDomain > Summary of JMS Servers > Summary of JMS Modules > FCUBSJMSModule

**Messages**

- All changes have been activated. No restarts are necessary.
- The JMS module was created successfully.

**Settings for FCUBSJMSModule**

Configuration Subdeployments Targets Security Notes

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

**Name:** FCUBSJMSModule The name of this JMS system module. More Info...

**Descriptor File Name:** jms/fcubsjmsmodule-jms.xml The name of the JMS module descriptor file. More Info...

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

**Customize this table**

**Summary of Resources**

New Delete Showing 0 to 0 of 0 Previous | Next

Name	Type	JNDI Name	Subdeployment	Targets
There are no items to display				

New Delete Showing 0 to 0 of 0 Previous | Next

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1. Go back to JMS Modules→FCUBSJMSModule→New

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

Home > AlphaDomain > Summary of JMS Servers > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule

**Settings for FCUBSJMSModule**

Configuration Subdeployments Targets Security Notes

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

**Name:** FCUBSJMSModule The name of this JMS system module. More Info...

**Descriptor File Name:** jms/fcubsjmsmodule-jms.xml The name of the JMS module descriptor file. More Info...

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

**Customize this table**

**Summary of Resources**

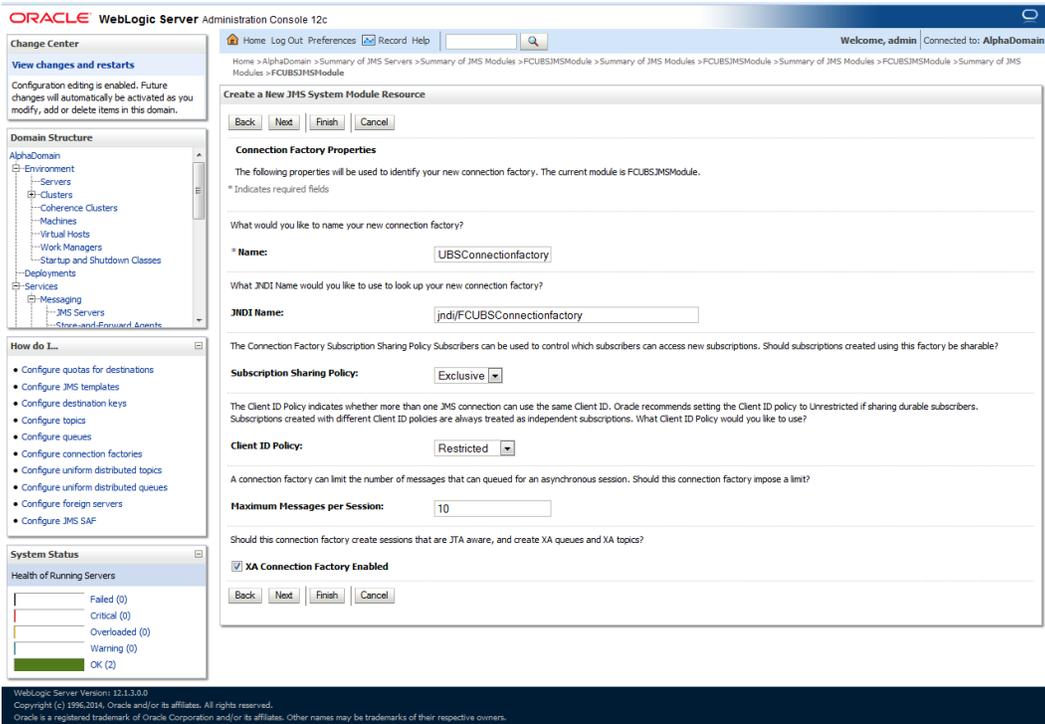
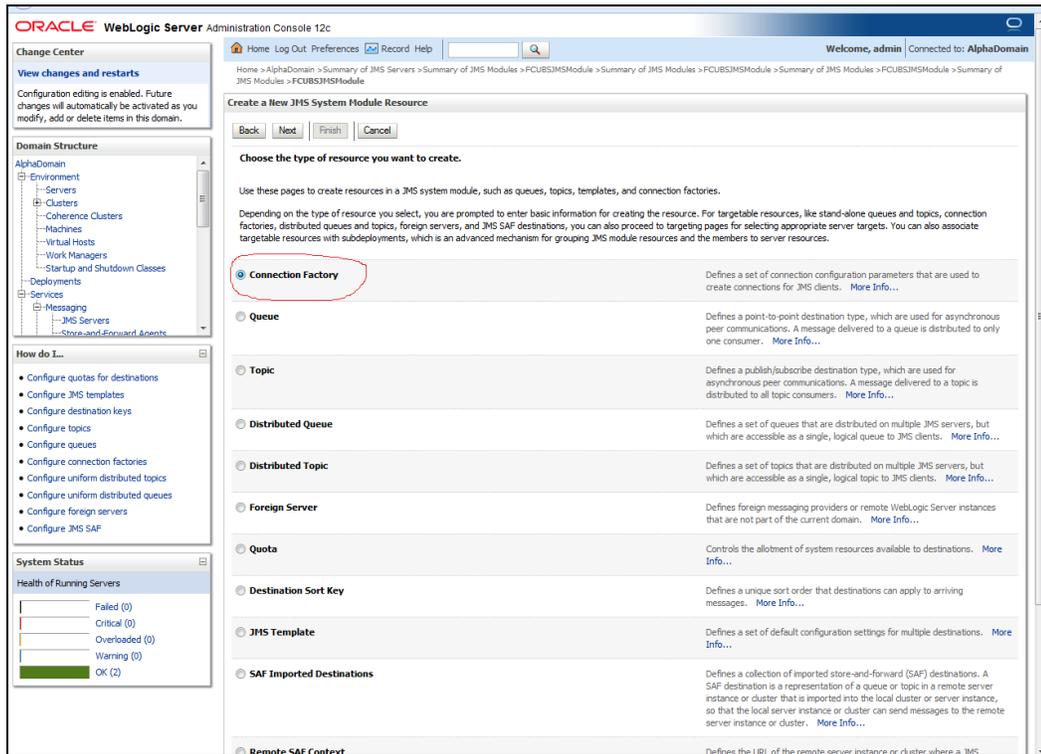
New Delete Showing 0 to 0 of 0 Previous | Next

Name	Type	JNDI Name	Subdeployment	Targets
There are no items to display				

New Delete Showing 0 to 0 of 0 Previous | Next

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2. Click on Connection Factory → next → Create the connection Factory with the below Names → Next



3. Select Advanced targeting → create New Sub Deployment with the below Name → Select the target as JMS server which we have created on top → Finish

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

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  
AlphaDomain  
- Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Machines  
- Virtual Hosts  
- Work Managers  
- Startup and Shutdown Classes  
- Deployments  
- Services  
- Messaging  
- JMS Servers  
- Store and Forward Agents

How do I...  
• Configure quotas for destinations  
• Configure JMS templates  
• Configure destination keys  
• Configure topics  
• Configure queues  
• Configure connection factories  
• Configure uniform distributed topics  
• Configure uniform distributed queues  
• Configure foreign servers  
• Configure JMS SAF

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

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Create a New JMS System Module Resource

Back Next Finish Advanced Targeting Cancel

The following properties will be used to target your new JMS system module resource

Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click **Advanced Targeting** to use the subdeployment mechanism for targeting this resource.

The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.

Targets:

Servers

SOAServer

Back Next Finish Advanced Targeting Cancel

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

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  
AlphaDomain  
- Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Machines  
- Virtual Hosts  
- Work Managers  
- Startup and Shutdown Classes  
- Deployments  
- Services  
- Messaging  
- JMS Servers  
- Store and Forward Agents

How do I...  
• Configure quotas for destinations  
• Configure JMS templates  
• Configure destination keys  
• Configure topics  
• Configure queues  
• Configure connection factories  
• Configure uniform distributed topics  
• Configure uniform distributed queues  
• Configure foreign servers  
• Configure JMS SAF

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

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Create a New JMS System Module Resource

Back Next Finish Cancel

The following properties will be used to target your new JMS system module resource

Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments: (none) **Create a New Subdeployment**

What targets do you want to assign to this subdeployment?

Targets:

Back Next Finish Cancel

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help  Welcome, admin Connected to: AlphaDomain

Home > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder

**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**  
AlphaDomain  
Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Machines  
- Virtual Hosts  
- Work Managers  
- Startup and Shutdown Classes  
- Deployments  
Services  
- Messaging  
- JMS Servers  
- Store-and-Forward Agents

**How do I...**  

- Configure quotas for destinations
- Configure JMS templates
- Configure destination keys
- Configure topics
- Configure queues
- Configure connection factories
- Configure uniform distributed topics
- Configure uniform distributed queues
- Configure foreign servers
- Configure JMS SAF

**System Status**  
Health of Running Servers  

Failed	(0)
Critical	(0)
Overloaded	(0)
Warning	(0)
OK	(2)

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**Create a New Subdeployment**  
OK Cancel

**Subdeployment Properties**  
The following properties will be used to identify your new subdeployment.  
Subdeployment Name: FCUBS

OK Cancel

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help  Welcome, admin Connected to: AlphaDomain

Home > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder

**Change Center**  
View changes and restarts  
Pending changes exist. They must be activated to take effect. You may activate them now. Otherwise, they will be automatically activated when you next modify, add or delete items in this domain.  
Activate Changes  
Undo All Changes

**Domain Structure**  
AlphaDomain  
Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Machines  
- Virtual Hosts  
- Work Managers  
- Startup and Shutdown Classes  
- Deployments  
Services  
- Messaging  
- JMS Servers  
- Store-and-Forward Agents

**How do I...**  

- Configure quotas for destinations
- Configure JMS templates
- Configure destination keys
- Configure topics
- Configure queues
- Configure connection factories
- Configure uniform distributed topics
- Configure uniform distributed queues
- Configure foreign servers
- Configure JMS SAF

**System Status**  
Health of Running Servers  

Failed	(0)
Critical	(0)
Overloaded	(0)
Warning	(0)
OK	(2)

**Create a New JMS System Module Resource**  
Back Next Finish Cancel

**The following properties will be used to target your new JMS system module resource**  
Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

**Subdeployments:** FCUBS Create a New Subdeployment

What targets do you want to assign to this subdeployment?

**Targets:**

**Servers**  
 SOAServer

**JMS Servers**  
 BPHJMServer  
 FCUBSJMServer  
 SOAJMServer  
 UNSJMServer\_auto\_2

Back Next Finish Cancel

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help   Welcome, admin Connected to: AlphaDomain

Home > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > FCUBSConnectionFactory > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder

Messages

- ✔ All changes have been activated. No restarts are necessary.
- ✔ Connection factory created successfully.

**Settings for FCUBSJMSModule**

Configuration Subdeployments Targets Security Notes

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

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

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

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

Customize this table

**Summary of Resources**

New Delete Showing 1 to 1 of 1 Previous Next

Name	Type	JNDI Name	Subdeployment	Targets
FCUBSConnectionFactory	Connection Factory	jndi/FCUBSConnectionFactory	FCUBS	FCUBSJMServer

New Delete Showing 1 to 1 of 1 Previous Next

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**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help   Welcome, admin Connected to: AlphaDomain

Home > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > FCUBSConnectionFactory > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder

Messages

- ✔ All changes have been activated. No restarts are necessary.
- ✔ Connection factory created successfully.

**Settings for FCUBSJMSModule**

Configuration Subdeployments Targets Security Notes

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

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

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

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

Customize this table

**Summary of Resources**

New Delete Showing 1 to 1 of 1 Previous Next

Name	Type	JNDI Name	Subdeployment	Targets
FCUBSConnectionFactory	Connection Factory	jndi/FCUBSConnectionFactory	FCUBS	FCUBSJMServer

New Delete Showing 1 to 1 of 1 Previous Next

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4. Go back to console → Click on JMS Modules → New → check on Queue → next

Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connection factories.

Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For targetable resources, like stand-alone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. You can also associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.

<input type="radio"/> Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. <a href="#">More Info...</a>
<input checked="" type="radio"/> Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. <a href="#">More Info...</a>
<input type="radio"/> Topic	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. <a href="#">More Info...</a>
<input type="radio"/> Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. <a href="#">More Info...</a>
<input type="radio"/> Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. <a href="#">More Info...</a>
<input type="radio"/> Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. <a href="#">More Info...</a>
<input type="radio"/> Quota	Controls the allotment of system resources available to destinations. <a href="#">More Info...</a>
<input type="radio"/> Destination Sort Key	Defines a unique sort order that destinations can apply to arriving messages. <a href="#">More Info...</a>
<input type="radio"/> JMS Template	Defines a set of default configuration settings for multiple destinations. <a href="#">More Info...</a>
<input type="radio"/> SAF Imported Destinations	Defines a collection of imported store-and-forward (SAF) destinations. A SAF destination is a representation of a queue or topic in a remote server instance or cluster that is imported into the local cluster or server instance, so that the local server instance or cluster can send messages to the remote server instance or cluster. <a href="#">More Info...</a>
<input type="radio"/> Remote SAF Context	Defines the URL of the remote server instance or cluster where a JMS destination is exported from. It also contains the security credentials to be authenticated and authorized in the remote cluster or server. <a href="#">More Info...</a>
<input type="radio"/> SAF Error Handling	Defines the action to take when the SAF service fails to forward messages to remote destinations. <a href="#">More Info...</a>

Back Next Finish Cancel

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5. Create Queue with Name NOTIFY\_DEST\_QUEUE and JNDI name as jms/NOTIFY\_DEST\_QUEUE→select the sub deployment which we have created earlier  
→Next→Finish

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main window is titled "Create a New JMS System Module Resource". The breadcrumb navigation path is: Home > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > FCUBSConnectionFactory > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder.

The "JMS Destination Properties" section contains the following fields:

- Name:** NOTIFY\_DEST\_QUEUE
- JNDI Name:** jms/NOTIFY\_DEST\_QUEUE
- Template:** None

Buttons for "Back", "Next", "Finish", and "Cancel" are visible at the top and bottom of the dialog box.

On the left side of the console, there are several panels:

- 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:** A tree view showing the domain hierarchy: AlphaDomain > Environment > Servers > Clusters > Coherence Clusters > Machines > Virtual Hosts > Work Managers > Startup and Shutdown Classes > Deployments > Services > Messaging > JMS Servers > Store-and-Forward Agents.
- How do I...:** A list of links for configuration tasks: Configure quotas for destinations, Configure JMS templates, Configure destination keys, Configure topics, Configure queues, Configure connection factories, Configure uniform distributed topics, Configure uniform distributed queues, Configure foreign servers, Configure JMS SAF.
- System Status:** Health of Running Servers. A bar chart shows: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (2).

At the bottom of the console, the version information is displayed: WebLogic Server Version: 12.1.3.0.0. Copyright (c) 1996-2014, 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.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

Home > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > FCUBSConnectionFactory > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder

### Create a New JMS System Module Resource

Back Next Finish Cancel

The following properties will be used to target your new JMS system module resource

Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

**Subdeployments:** FCUBS Create a New Subdeployment

What targets do you want to assign to this subdeployment?

**Targets:**

**JMS Servers**

- BPMJMServer
- FCUBSJMServer
- SOAJMServer
- UMSJMServer\_auto\_2

Back Next Finish Cancel

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**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

Home > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > FCUBSConnectionFactory > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder

Messages

- ✓ All changes have been activated. No restarts are necessary.
- ✓ The JMS Queue was created successfully.

### Settings for FCUBSJMSModule

Configuration Subdeployments Targets Security Notes

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

**Name:** FCUBSJMSModule The name of this JMS system module. More Info...

**Descriptor File Name:** jms/FCUBSJMSModule-jms.xml The name of the JMS module descriptor file. More Info...

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

Customize this table

**Summary of Resources**

New Delete Showing 1 to 2 of 2 Previous | Next

Name	Type	JNDI Name	Subdeployment	Targets
FCUBSConnectionFactory	Connection Factory	jndi/FCUBSConnectionFactory	FCUBS	FCUBSJMServer
NOTIFY_DEST_QUEUE	Queue	.jms/NOTIFY_DEST_QUEUE	FCUBS	FCUBSJMServer

New Delete Showing 1 to 2 of 2 Previous | Next

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11. Please create the **MDB\_QUEUE\_RESPONSE**, **eis/jms/ORGateway**, **FAULT\_QUEUE\_RESPONSE** Queues as above in console with in **FCUBSJMSModule**. (Follow step 9-10 in 1.2.7)

12. Go to Console→Deployment→JMS Adapter →Configuration→outbound connection pool→New→ next→Finish

Name	Status	Health	Type	Server	Port
☐  CMS Application (12.1.3.0.0)	Active	✔ OK	Web Application	AdminServer, BAMServer, SOAServer	5
☐  em	Active	✔ OK	Enterprise Application	AdminServer	400
☐  FCUBSAppTUT (12.1.0.0.0)	Active	⚠ Warning	Enterprise Application	SOAServer	600
☐  FileAdapter	Active	✔ OK	Resource Adapter	SOAServer	321
☐  Frevo	Active	✔ OK	Enterprise Application	SOAServer	100
☐  FtpAdapter	Active	✔ OK	Resource Adapter	SOAServer	325
☐  GWWebServices (12.1.0.0.0)	Active	✔ OK	Enterprise Application	SOAServer	600
☐  IDEWorldAdapter	Installed		Resource Adapter		333
☑  JmsAdapter	Active	✔ OK	Resource Adapter	SOAServer	323
☐  LdapAdapter	Installed		Resource Adapter		332
JmsAdapter, Level 1, 19 of 46					
☐  MQSeriesAdapter	Active	✔ OK	Resource Adapter	SOAServer	327
☐  MSMQAdapter	Installed		Resource Adapter		334
☐  OAAIPredictorService	Active	✔ OK	Enterprise Application	SOAServer	100
☐  OracleAppsAdapter	Active	✔ OK	Resource Adapter	SOAServer	328
☐  OracleBamAdapter	Installed		Resource Adapter		329
☐  OracleBPMBACServerApp	Active	✔ OK	Enterprise Application	SOAServer	384
☐  OracleBPMComposerRolesApp	Active	✔ OK	Enterprise Application	SOAServer	382
☐  OracleBPMProcessRolesApp	Active	✔ OK	Enterprise Application	SOAServer	381
☐  OracleBPMWorkspace	Active	✔ OK	Enterprise Application	SOAServer	383
☐  SAPAdapter	Installed		Resource Adapter		335
☐  SimpleApprovalTaskFlow	Active	✔ OK	Enterprise Application	SOAServer	386
☐  soa-infra	Active	✔ OK	Enterprise Application	SOAServer	350
☐  soa-webapps	Active	✔ OK	Enterprise Application	SOAServer	360

10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=AppApplicationDispatcherPage&AppApplication...PortletHandle=com.bea.console.handles.AppDeploymentHandle("com.bea.Name=JmsAdapter,Type=AppDeployment")

Home > FCUBSConnectionFactory > Summary of JMS Modules > FCUBSJMModule > Summary of JMS Modules > FCUBSJMModule > placeholder > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter

### Settings for JmsAdapter

Overview | Deployment Plan | **Configuration** | Security | Targets | Control | Testing | Monitoring | Notes

General | Properties | **Outbound Connection Pools** | Admin Objects | Workload | Instrumentation

This page displays a table of Outbound Connection Pool groups and instances for this resource adapter. The top level entries in the table represent Outbound Connection Pool groups. Groups are listed by connection factory interface and the instances are listed by their JNDI names. Expand a group to obtain configuration information for a Connection Pool instance within an Outbound Connection Pool group. Click the name of a group or instance to configure it. Automatically generated Connection Pools are not displayed in the table below.

#### Outbound Connection Pool Configuration Table

Groups and Instances	Connection Factory Interface
oracle.tip.adapter.jms.IJmsConnectionFactory	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/activemq/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/ajms/EDNLocalTDurableTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/ajms/EDNLocalTxTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/ajms/EDNxaDurableTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/ajms/EDNxaTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/ajms/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/ajms/Topic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/floranomq/Topic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/jms/aiab2QueueCF	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/jms/aiabErrorTopicCF	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/jxamatl/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/summq/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/nbjms/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/nbjms/Topic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/nbjmsDirect/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/nbjmsDirect/Topic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/webpspheremq/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTDurableTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaDurableTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaTopic	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/wls/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
eis/wls/Topic	oracle.tip.adapter.jms.IJmsConnectionFactory

ORACLE WebLogic Server Administration Console 12c

Home | Log Out | Preferences | Record | Help | Welcome, admin | Connected to: AlphaDomain

Home > FCUBSJMModule > placeholder > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter

### Create a New Outbound Connection

Back | Next | Finish | Cancel

**Outbound Connection Group**

In which outbound connection group do you want to create an instance?

**Outbound Connection Groups**

Outbound Connection Group	Showing 1 to 1 of 1 Previous   Next
<input checked="" type="radio"/> oracle.tip.adapter.jms.IJmsConnectionFactory	Showing 1 to 1 of 1 Previous   Next

Back | Next | Finish | Cancel

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- Click on the Outbound connection pool with **eis/Queue/Notif** and enter the connection factory location as **jndi/FCUBSConnectionFactory** → press Enter and Save

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

Home > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of JMS Modules > FCUBSModule > Summary of JMS Modules > Summary of Deployments > JmsAdapter

Settings for oracle.tip.adapter.jms.IJmsConnectionFactory

General Properties Transaction Authentication Connection Pool Logging

This page allows you to view and modify the configuration properties of this outbound connection pool. Properties you modify here are saved to a deployment plan.

Outbound Connection Properties

Save Showing 1 to 7 of 7 Previous | Next

Property Name	Property Type	Property Value	Supports Dynamic Updates
AcknowledgeMode	java.lang.String	AUTO_ACKNOWLEDGE	false
ConnectionFactory.Location	java.lang.String	jndi/FCUBSConnec	false
FactoryProperties	java.lang.String		false
IsTopic	java.lang.Boolean	false	false
IsTransacted	java.lang.Boolean	false	false
Password	java.lang.String		false
Username	java.lang.String		false

Save Showing 1 to 7 of 7 Previous | Next

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ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

Home > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of JMS Modules > FCUBSModule > Summary of JMS Modules > Summary of Deployments > JmsAdapter

Messages

- All changes have been activated. No restarts are necessary.
- Deployment plan has been successfully updated.
- Remember to update your deployment to reflect the new plan when you are finished with your changes.

Settings for oracle.tip.adapter.jms.IJmsConnectionFactory

General Properties Transaction Authentication Connection Pool Logging

This page allows you to view and modify the configuration properties of this outbound connection pool. Properties you modify here are saved to a deployment plan.

Outbound Connection Properties

Save Showing 1 to 7 of 7 Previous | Next

Property Name	Property Type	Property Value	Supports Dynamic Updates
AcknowledgeMode	java.lang.String	AUTO_ACKNOWLEDGE	false
ConnectionFactory.Location	java.lang.String	jndi/FCUBSConnectionFactory	false
FactoryProperties	java.lang.String		false
IsTopic	java.lang.Boolean	false	false
IsTransacted	java.lang.Boolean	false	false
Password	java.lang.String		false
Username	java.lang.String		false

Save Showing 1 to 7 of 7 Previous | Next

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15. Go to console →Deployments→JMS adapter→Update→Next→ Next →Finish

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 1 to 46 of 46 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
b2bul	Prepared	OK	Enterprise Application	SOAServer	313
BamComposer	New		Enterprise Application	BAMServer	500
BamCQService	New		Enterprise Application	BAMServer	300
BamServer	New		Enterprise Application	BAMServer	400
BPMComposer	Active	OK	Enterprise Application	SOAServer	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	SOAServer	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	SOAServer	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSAppIUT (12.1.0.0.0)	Active	Warning	Enterprise Application	SOAServer	600
FileAdapter	Active	OK	Resource Adapter	SOAServer	321
frevo	Active	OK	Enterprise Application	SOAServer	100
FtpAdapter	Active	OK	Resource Adapter	SOAServer	325
GWWebServices (12.1.0.0.0)	Active	OK	Enterprise Application	SOAServer	600
JDEWorldAdapter	Installed		Resource Adapter		333

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Home > Summary of Deployments > JmsAdapter > Summary of Deployments > Summary of JMS Modules > FCUBSJMModule > Summary of JMS Modules > Summary of Deployments > JmsAdapter > Summary of Deployments

Update Application Assistant

Back Next Finish Cancel

Locate new deployment files

You have elected to update the JmsAdapter application.

Update this application in place with new deployment plan changes. (A deployment plan must be specified for this option)

Deployment plan path: /scratch/app/oracle/product/fmw12c3/soa/soa/connectors/Plan1.xml Change Path

Redeploy this application using the following deployment files:

Source path: /scratch/app/oracle/product/fmw12c3/soa/soa/connectors/JmsAdapter.rar Change Path

Deployment plan path: /scratch/app/oracle/product/fmw12c3/soa/soa/connectors/Plan1.xml Change Path

Back Next Finish Cancel

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**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help Welcome, admin Connected to: AlphaDomain

Home > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of JMS Modules > FCUBS1MSModule > Summary of JMS Modules > Summary of Deployments > JmsAdapter > Summary of Deployments

**Messages**

- ✓ All changes have been activated. No restarts are necessary.
- ✓ Selected Deployments were updated.

**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 1 to 46 of 46 Previous | Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	✓ OK	Resource Adapter	SOAServer	324
b2but	Prepared	✓ OK	Enterprise Application	SOAServer	313
BamComposer	New		Enterprise Application	BAMServer	500
BamCQService	New		Enterprise Application	BAMServer	300
BamServer	New		Enterprise Application	BAMServer	400
BPMComposer	Active	✓ OK	Enterprise Application	SOAServer	385
coherence-transaction-rar	Active	✓ OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	✓ OK	Resource Adapter	SOAServer	322
DefaultToDoTaskFlow	Active	✓ OK	Enterprise Application	SOAServer	314
DMS Application (12.1.3.0.0)	Active	✓ OK	Web Application	AdminServer, BAMServer, SOAServer	5

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

16. Create the out bound connection pool with the **eis/wls/Queue** name in the Deployments using connection factory **jndi/FCUBSConnectionFactory**.

## 1.2.7 Configuring FTP Adapter

1. Login to console → Deployments → FTP Adapter → Configuration → Outbound Connection Pool → New

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for FtpAdapter" and has tabs for Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. The "Configuration" tab is active, and the "Outbound Connection Pools" sub-tab is selected. Below the tabs, there is a table titled "Outbound Connection Pool Configuration Table".

Groups and Instances	Connection Factory Interface
javax.resource.cdi.ConnectionFactory	javax.resource.cdi.ConnectionFactory
eis/ftp/CoherenceHFtpAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpAdapterLcl	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpAdapter_VMS	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpsAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/HAFtpAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/HAFtpAdapterDB2	javax.resource.cdi.ConnectionFactory
eis/ftp/HAFtpAdapterMSSQL	javax.resource.cdi.ConnectionFactory
eis/ftp/LocalTransactionFtpAdapter	javax.resource.cdi.ConnectionFactory

The screenshot shows the "Create a New Outbound Connection" dialog box in the Oracle WebLogic Server Administration Console. The dialog has a title bar and buttons for Back, Next, Finish, and Cancel. The main content area is titled "JNDI name for Outbound Connection Instance" and contains the following text:

Enter the JNDI name that you want to use to obtain the new connection instance

\* Indicates required fields

The Outbound Connection instance represents a connection pool. The JNDI name can be used to obtain the pool at runtime.

\* JNDI Name:

2) Click finish and save.

## 1.2.8 BIP Interactive reports configuration

- 1) Login to the BIP domain console, `http/s:<hostname>:<port>/console`.
- 2) Follow the step 1.2.1 to add the “FCJCustomProvider”.

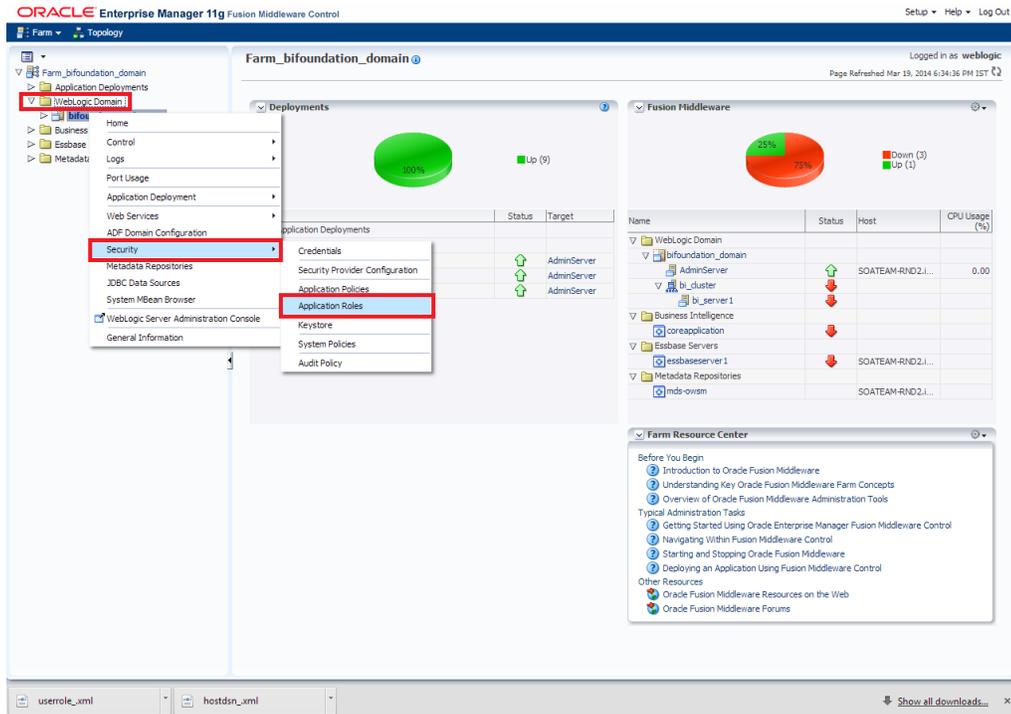
After adding, Navigate to security realms >myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.

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

Name	Description	Provider
000ANT1	Default Admin User 1	FCJCustomProvider
11111RM_3	Sweta	FCJCustomProvider
11111RM_4	RM	FCJCustomProvider
112233	Default Admin User 10	FCJCustomProvider
121212	Default Admin User 10	FCJCustomProvider
123456	SANKER GS	FCJCustomProvider
141414	Default Admin User 10	FCJCustomProvider
15239403	Kumar	FCJCustomProvider
1M20862	BALA	FCJCustomProvider
20862A1	Bala	FCJCustomProvider

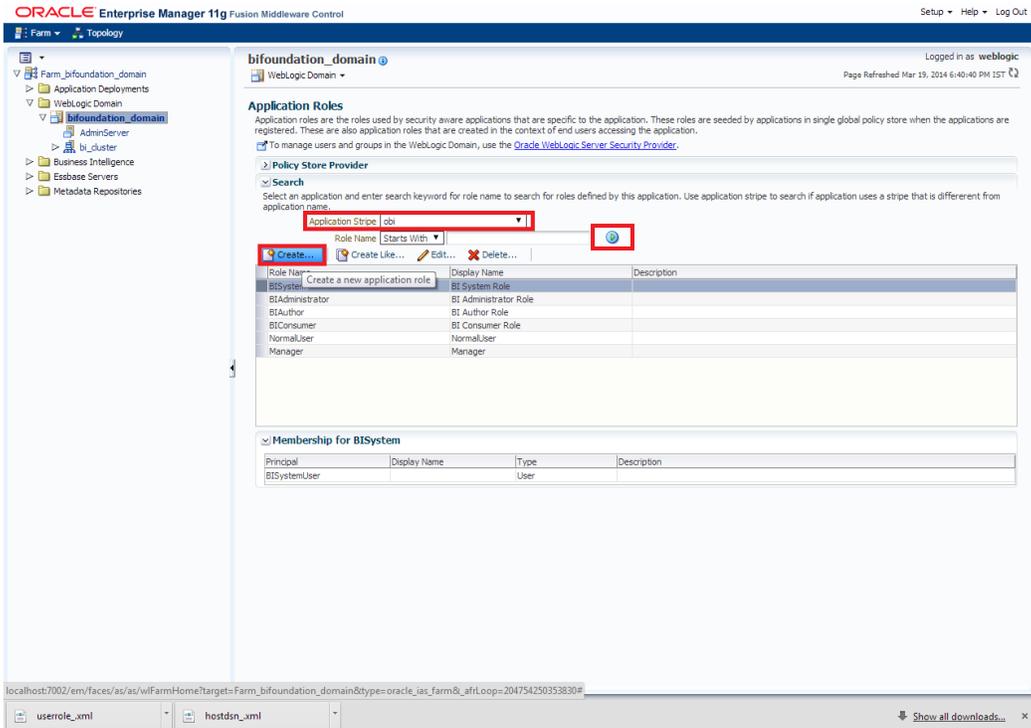
- 3) Login to the Enterprise Manager (em) `http/s:<hostname>:<port>/em`
  - Right click on the domain(in which BI suite is installed) under the weblogic domain

- Go to security and then navigate to application roles



4) After navigating to next screen as in below screenshot,

- Select application stripe as obi
- Click on the search button
- Click on create button to add a role



5) After navigating to next screen as in below screenshot,

- Enter the role name(mandatory), display name(optional), description(optional)
- Click on the Add button
- In the Add Principal pop up select type as “Group”
- In the advanced option check the checkbox and again 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.
  - or
  - Enter the Principal Name (mandatory), which is actually the role present in the FCUBS (ex: ALLROLES-000, ADMINROLE-000), Display Name (optional).

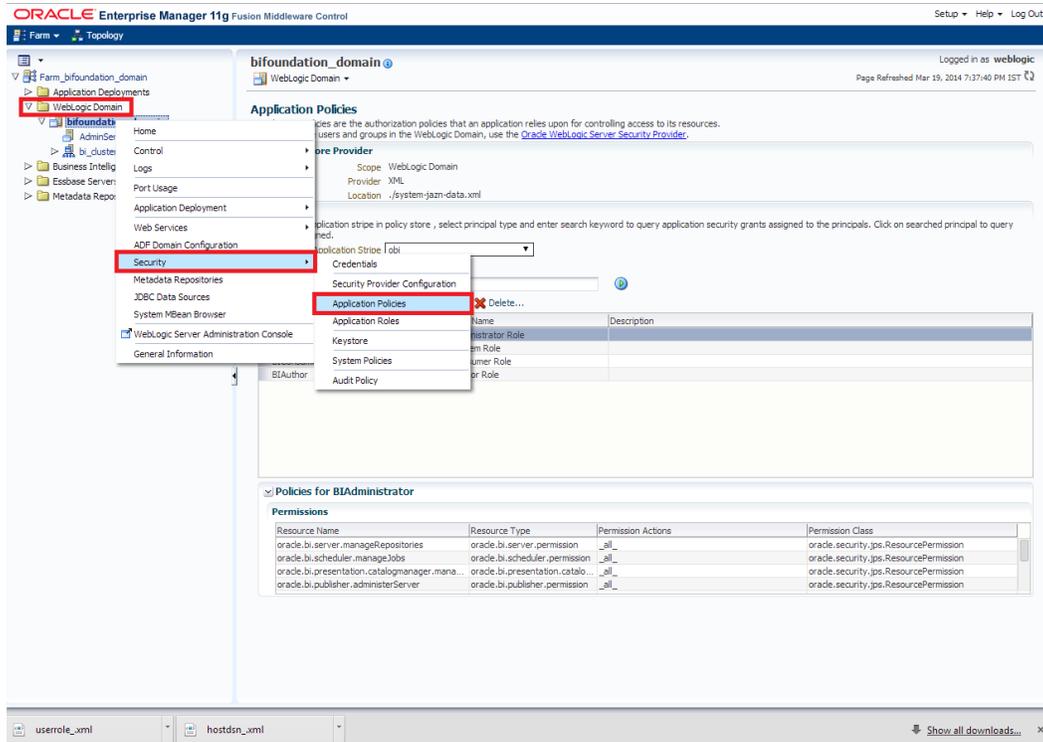
- After completing click on OK button in pop up window and also in the screen.

The screenshot displays the Oracle Enterprise Manager 11g Fusion Middleware Control interface. The main window is titled "bifoundation\_domain" and shows the "Create Application Role" dialog. The "General" tab is active, and the "Application Role" is named "ALLROLES". The "Members" section is empty, and the "Add" button is highlighted with a red box.

An "Add Principal" pop-up window is overlaid on the main window. It contains the following fields and options:

- Search:** A dropdown menu set to "Group" is highlighted with a red box. Below it are input fields for "Principal Name" and "Display Name", both with "Starts With" dropdowns.
- Searched Principals:** A table listing various principals with columns for Principal, Display Name, and Description. The table includes entries like BIAdministrators, BIAuthors, BIConsumers, BIPTTest, CrossDomainConnectors, Deployers, and Monitors.
- Advanced Option:** A checkbox labeled "Check to enter principal name here instead of searching from above. This option can be used for advanced scenarios related to custom authenticators." is checked and highlighted with a red box. Below it are input fields for "Principal Name" (containing "ALLROLES-000") and "Display Name" (containing "ALLROLES-000"), both highlighted with red boxes.

- 6) After getting information message like “A new role added successfully”, then again
- Right click on the domain(in which BI suite is installed) under the weblogic domain
  - Go to security and then navigate to application polices



- 7) After navigating to next screen as per screen shot,
  - Select the application stripe as obi, principal type as “Application Role”
  - Click on the search button
  - Select BICConsumer(it should be highlighted) from the list and click on the create like button.

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control interface. The main content area is titled "bifoundation\_domain" and "WebLogic Domain". Under "Application Policies", there is a "Policy Store Provider" section with details: Scope: WebLogic Domain, Provider: XML, Location: /system-jazn-data.xml.

The "Search" section contains the following text: "Select an application stripe in policy store, select principal type and enter search keyword to query application security grants assigned to the principals. Click on searched principal to query policies assigned to it." Below this text are two dropdown menus: "Application Stripe" (set to "obi") and "Principal Type" (set to "Application Role"). A search input field is empty, and a search button (magnifying glass icon) is highlighted with a red box.

Below the search section is a table of application policies. The "BICConsumer" policy is highlighted. The table has columns: Name, Start With, Display Name, and Description.

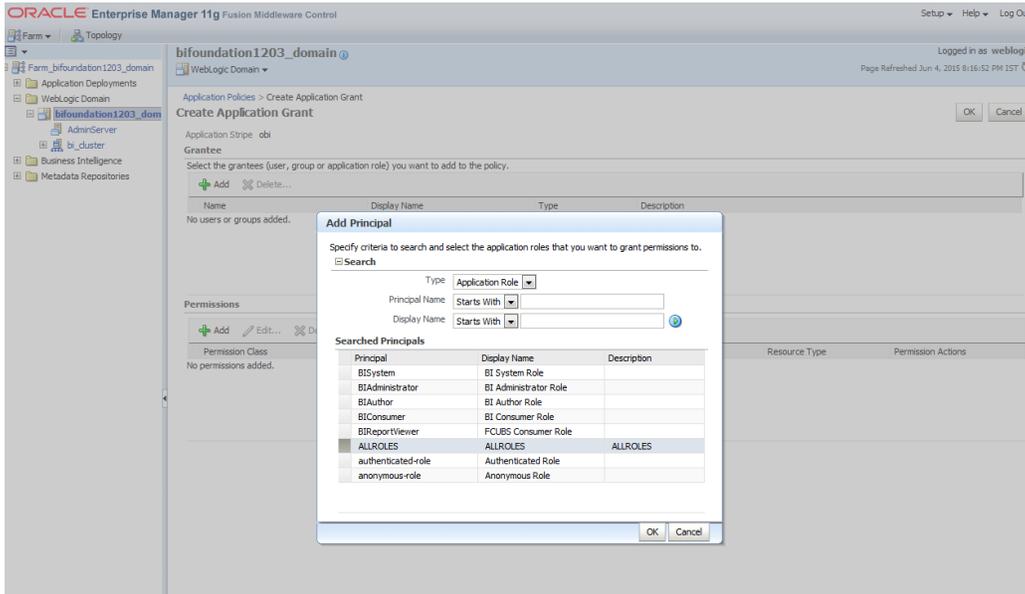
Name	Start With	Display Name	Description
PRISCDA			
BIAdministrator		BI Administrator Role	
BIUser		BI System Role	
<b>BICConsumer</b>		<b>BI Consumer Role</b>	
BIAuthor		BI Author Role	
BIReportViewer		FCUBS Consume Role	

Below the table is a section titled "Policies for BICConsumer" with a "Permissions" table:

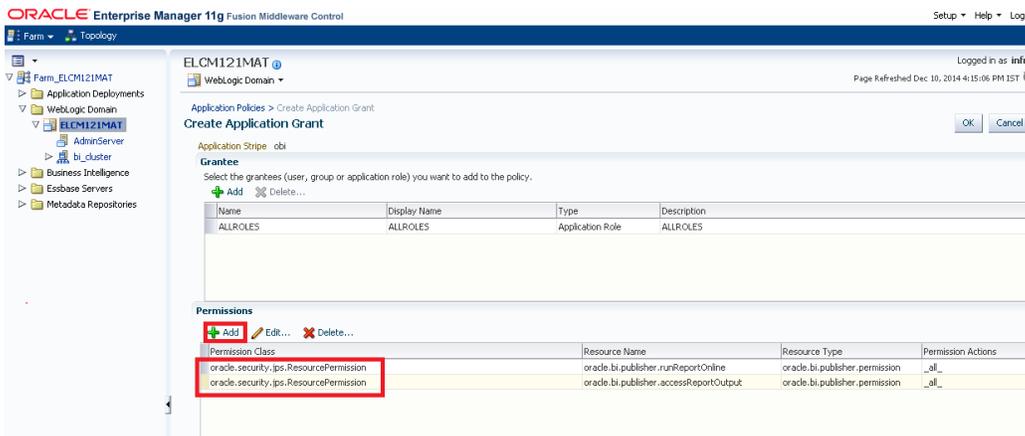
Resource Name	Resource Type	Permission Actions	Permission Class
Explore	rdc_dc_pcrsp	dc_pcrsactive	oracle.security.jps.ResourcePermission
MyGantt	rdc_dc_pcrsp	dc_pcrsactive	oracle.security.jps.ResourcePermission
all	rdc_batch	batch admin	oracle.security.jps.ResourcePermission
_all	rdc_js	choice_editor	oracle.security.jps.ResourcePermission

8) After navigating to next screen as per the screen shot,

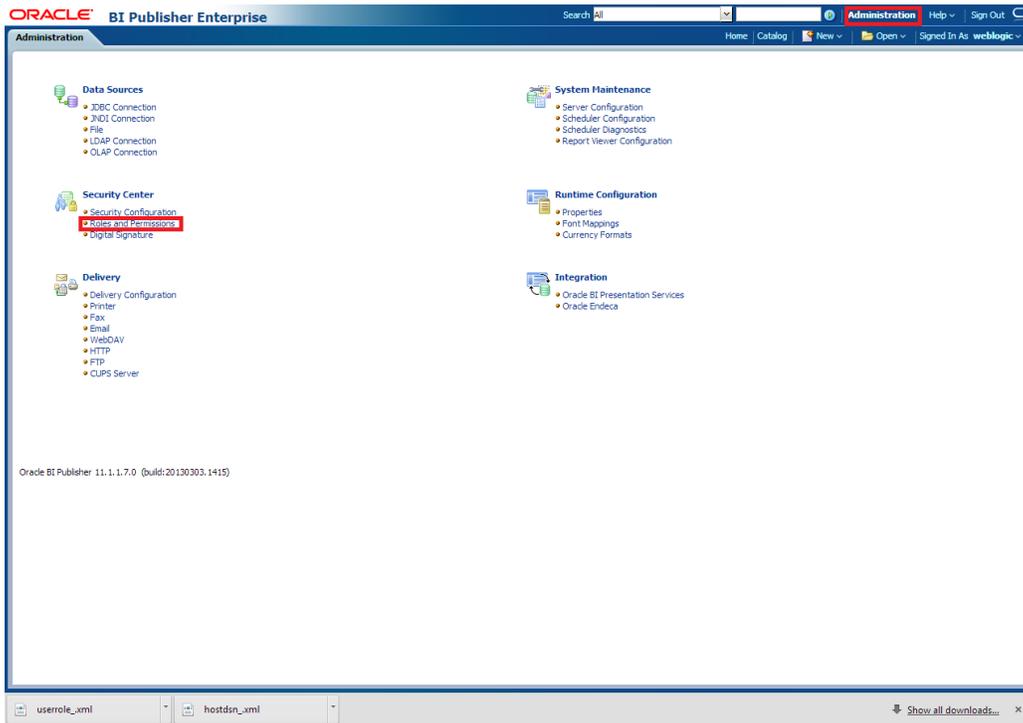
- Click on Add button , a new window “Add Principal” will be launched.
- Select Type as “Application Role” and click on the search button
- From the list select the role that has been created earlier in application role screen and click on OK button in pop up window and screen.



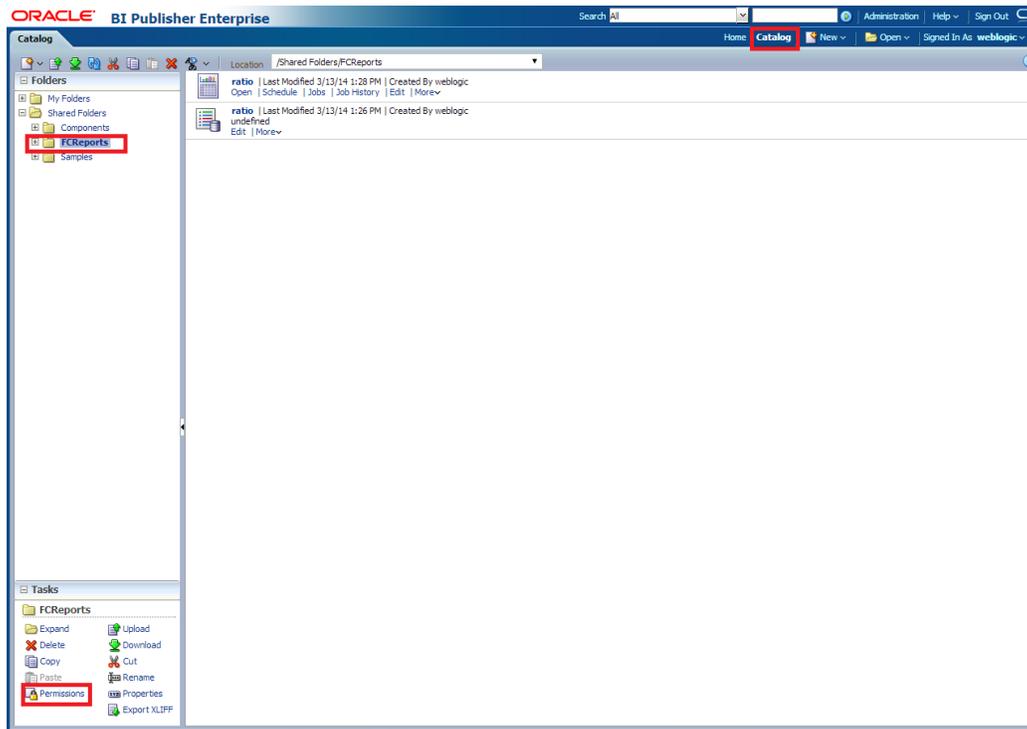
- Click Add button under Permissions and add the two permissions one by one as mentioned below.
  - oracle.bi.publisher.runReportOnline
  - oracle.bi.publisher.accessReportOutput



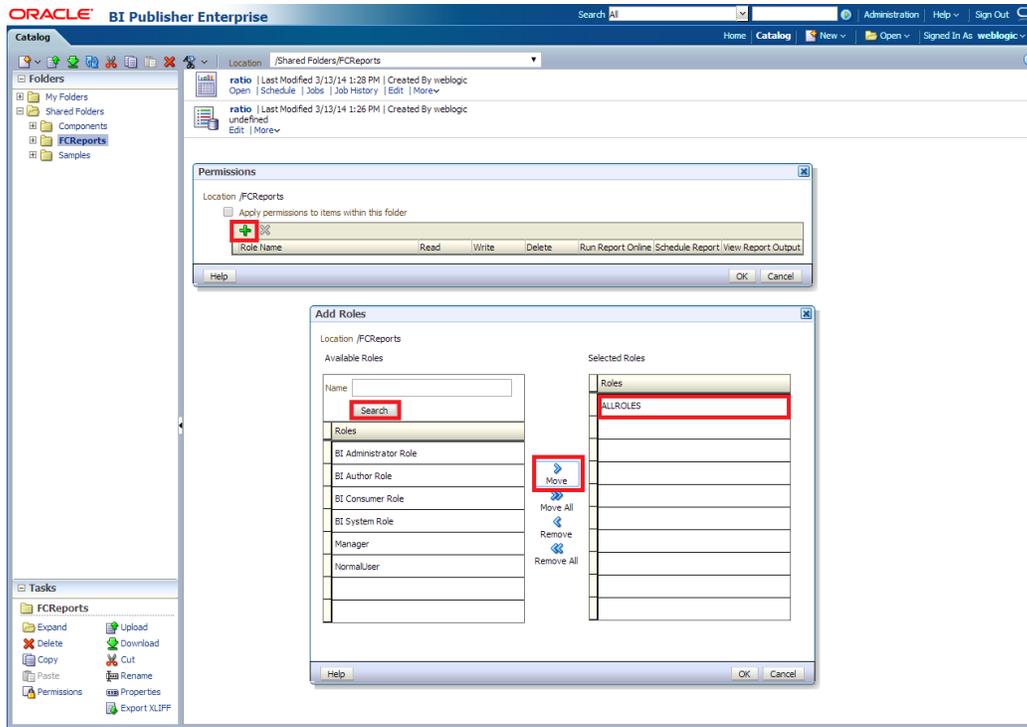
- 9) After getting information message like “A security added successfully”,
- Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpserver`
  - Click on the Administration .
  - Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart the servers.



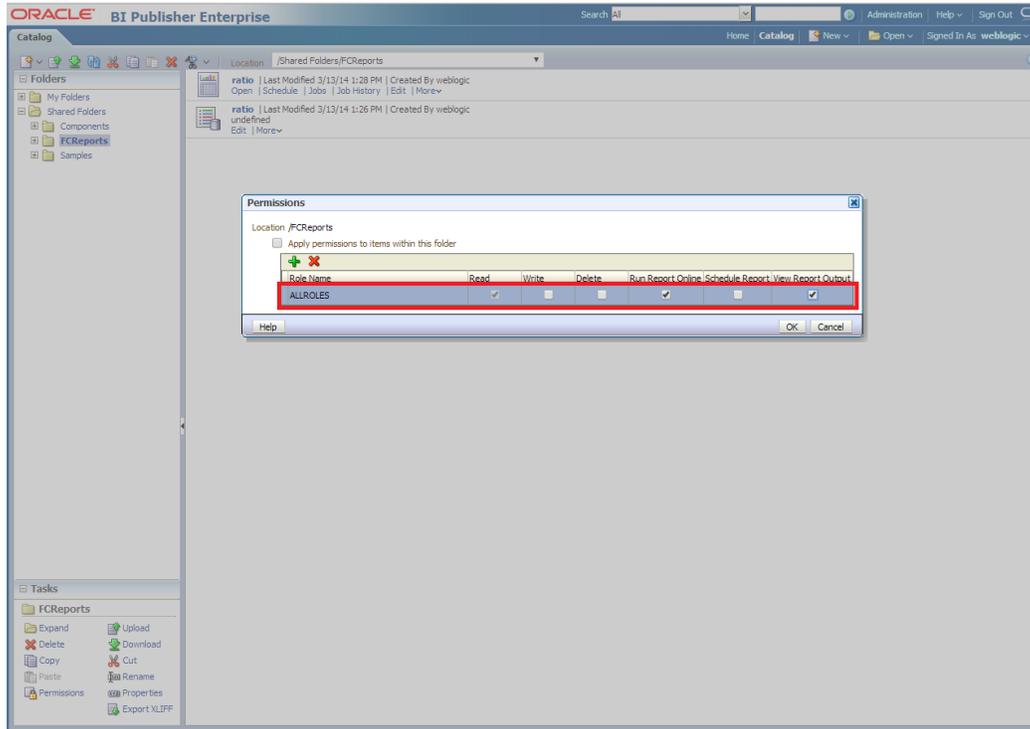
10) Then click on the Catalog , then on the folder that has been created , and then on permissions



- 11) After clicking on the permissions, a new window will pop up, delete all the roles if any present on click of permissions, then click on Add button, and then click on search button in “Add Roles” window that is launched newly and select the role that has been created and click on move button and click on OK.



- 12) Finally, the role will be added and select the options that has to be provided for the particular role and check if the permissions is only to items within the folder if necessary.



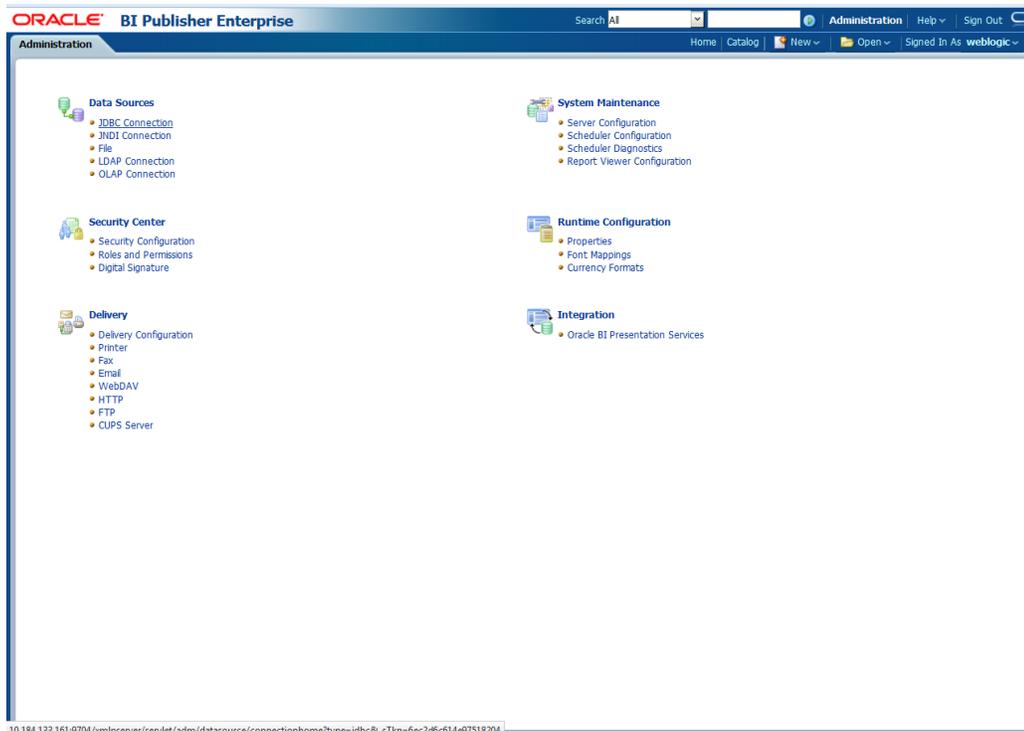
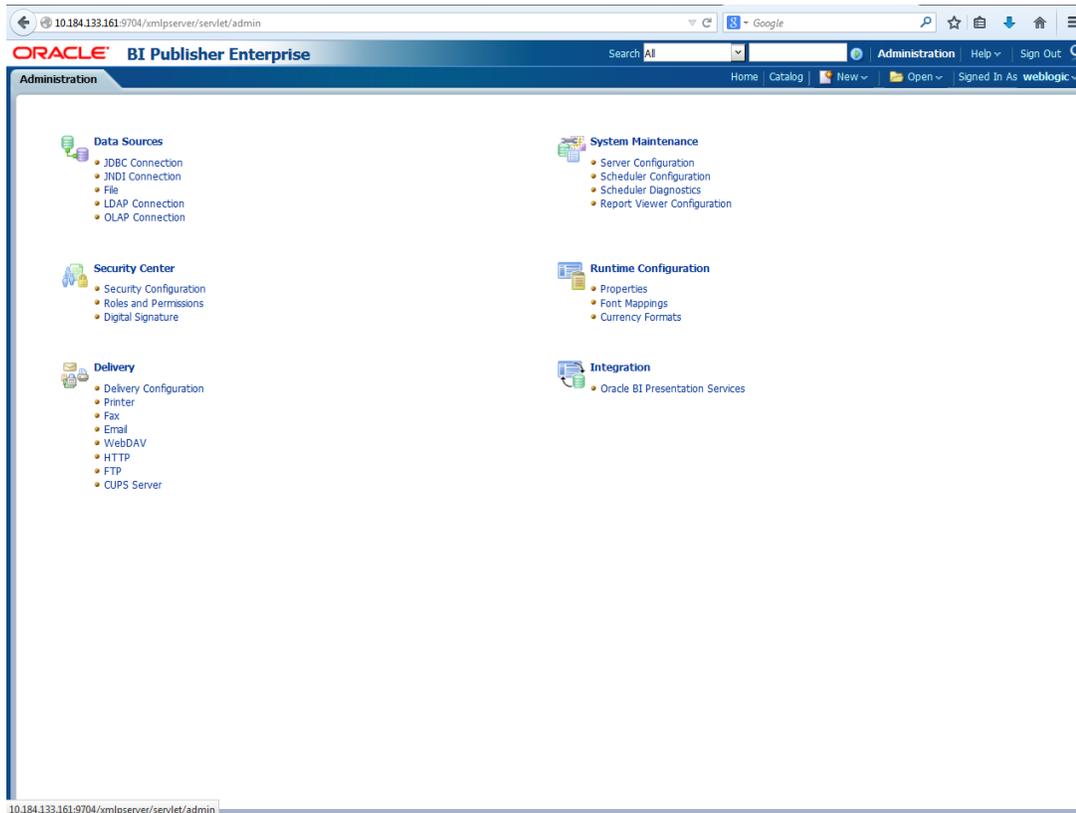
Now the reports in the folder will be accessed accordingly based on the roles.

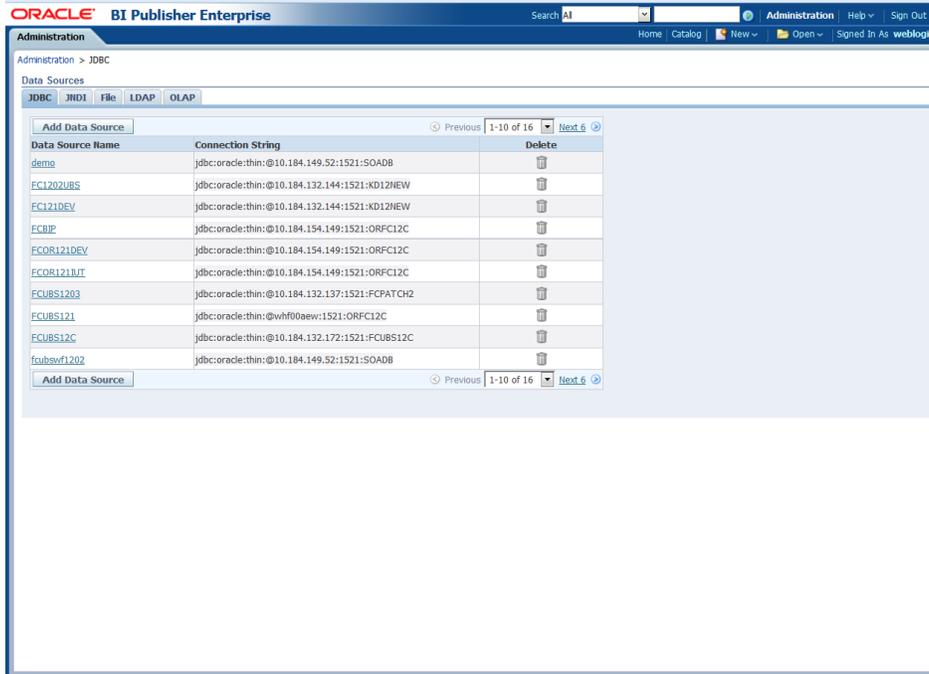
Note:

In the similar way we can set the permissions at report level also for particular role.

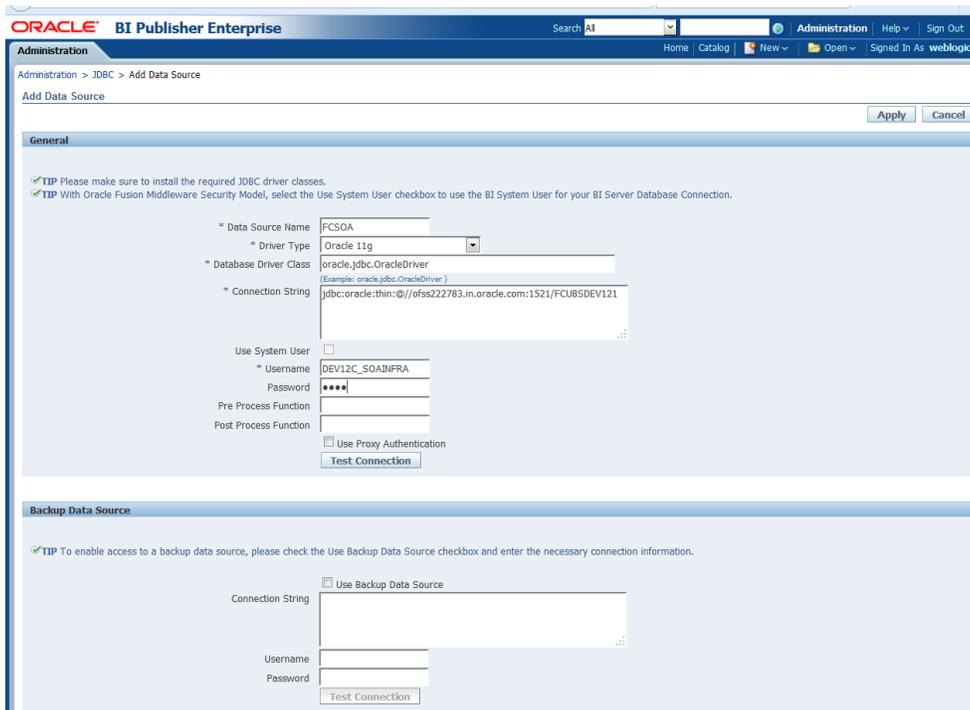
13. Please login in to Bi Publisher <http://server:port/xmlpserver>.

14. Click on Administration → JDBC connection → Add Data Source

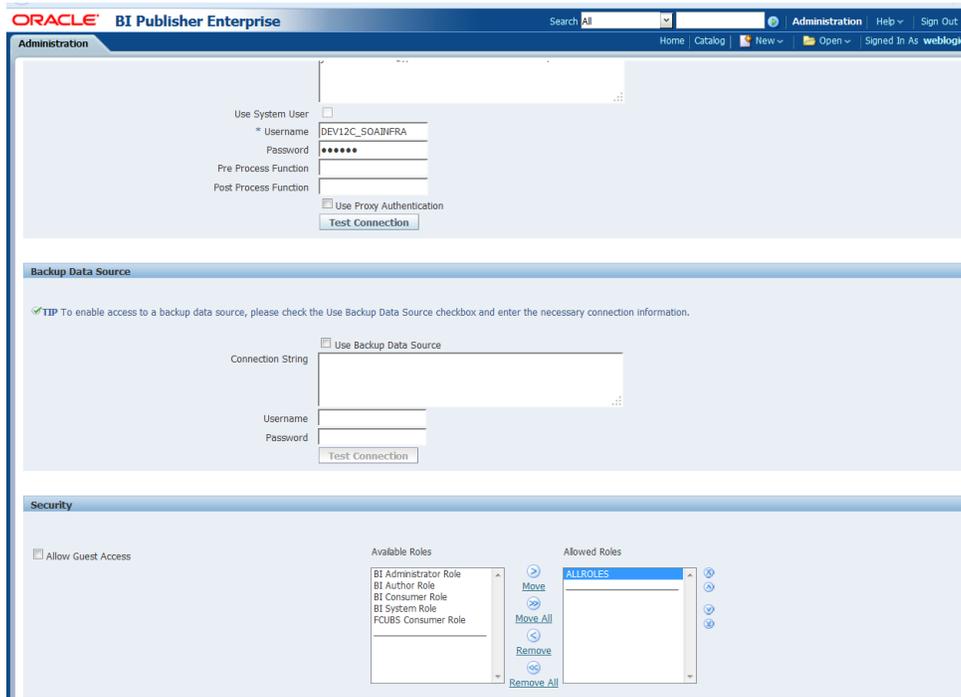




15. Please create the data source with data source name as **FCSOA** and use soa schema details to create the same.



16. Add the FCIS roles to allowed Roles under security



17. Click on test connection .once the connection is established succesfully .Click on Apply.

18. Please follow the steps 15 to 17 to create data source for FCIS Schema and give the name as FCBIPBPEL

## 1.2.9 BAM Report Configuration settings

1. Generate a deployment plan for BAM Composer Application.
2. Login in to console <http://hostname:port/console>
3. Click on Deployments → click on BAM Composer

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev\_domain

Home > 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 1 to 47 of 47 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bui	Active	OK	Enterprise Application	soa_server1	313
<b>BAMComposer</b>	Active	OK	Enterprise Application	bam_server1	500
BAMCQService	Active	OK	Enterprise Application	bam_server1	300
BAMServer	Active	OK	Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
DBAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5

4. Click on Configuration Configuration → Save

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev\_domain

Home > Summary of Deployments > BAMComposer > Summary of Deployments > BAMComposer

Settings for BAMComposer

Overview Deployment Plan **Configuration** Security Targets Control Testing Monitoring Notes

Application Workload Instrumentation

Save

This page describes the configuration information that is currently defined in the deployment plan for the selected module or component.

Session cookies max age (in seconds): -1 The life span of the session cookie (in seconds) after which it expires on the client. The value '-1' indicates that the cookie will persist until the client's browser shuts down. [More Info...](#)

Session Invalidation Interval (in seconds): 60 The time (in seconds) that WebLogic Server waits between doing house-cleaning checks for timed-out and invalid sessions, and deleting the old sessions and freeing up memory. [More Info...](#)

Session Timeout (in seconds): 3600 The amount of time (in seconds) that a session can remain inactive before it is invalidated. [More Info...](#)

Debug Enabled Enable debugging information for this session [More Info...](#)

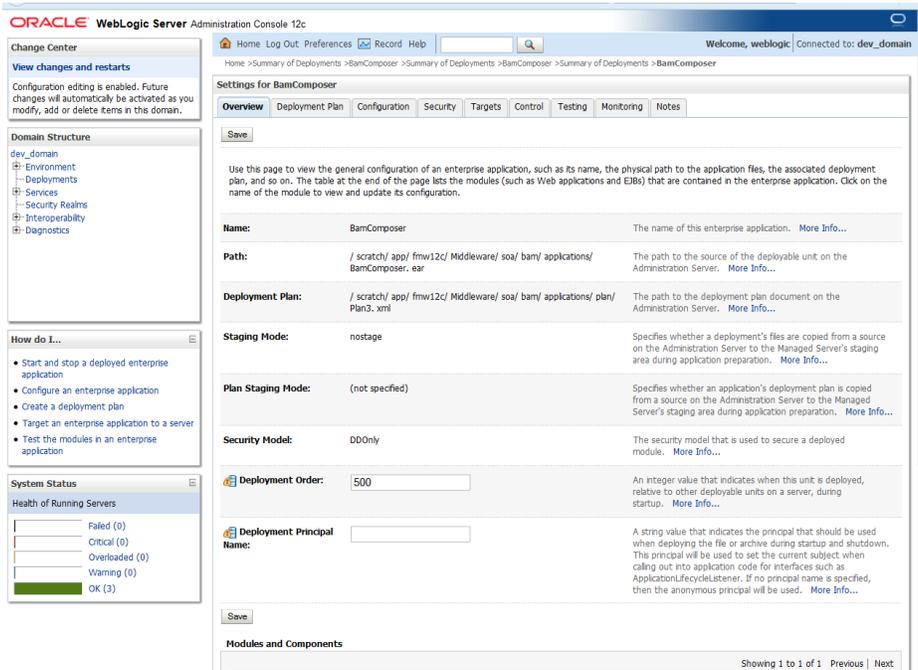
Maximum in-memory Sessions: -1 The maximum number of sessions to retain in memory. The value '-1' indicates that there is no limit. [More Info...](#)

Monitoring Attribute Name: Specifies the name of a session attribute which is tagged with session information. For example, if this value is set to username, then the username attribute is guaranteed to be unique. [More Info...](#)

Save

WebLogic Server Version: 12.1.3.0.0  
Copyright (c) 1996, 2014, 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.

5. Click on Overview→check the deployment plan location



6. Add variable and variable assignment as below to the Plan.xml in

`<module-name>BamComposerWeb.war</module-name>` and for reference please find plan.xml file.

```

<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/[param-name="oracle.adf.view.rich.security.FRAME_BUSTING"]/param-value</xpath>
    <origin>planbased</origin>
  </variable-assignment> </module-descriptor>

```



Plan3.xml

## 7. Stop the BAM composer application in console.

When work completes

Force Stop Now

Stop, but continue servicing administration requests

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
db2bul	Active	OK	Enterprise Application	soa_server1	313
BAMComposer	Active	OK	Enterprise Application	bam_server1	500
BamCQService	Active	OK	Enterprise Application	bam_server1	300
BamServer	Active	OK	Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSAppJIT (12.1.0.0.0)	Active	Warning	Enterprise Application	soa_server1	600
FCUBSAppSoaEmb (12.1.0.0.0)	Prepared	OK	Enterprise Application	soa_server1	601
FileAdapter	Active	OK	Resource Adapter	soa_server1	321
frevo	Installed		Enterprise Application		100
FnAdapter	Active	OK	Resource Adapter	soa_server1	325

## 8. Update the deployment plan.

## 9. Click on deployments → click on BAM Composer checkbox → Click on update

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev\_domain

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

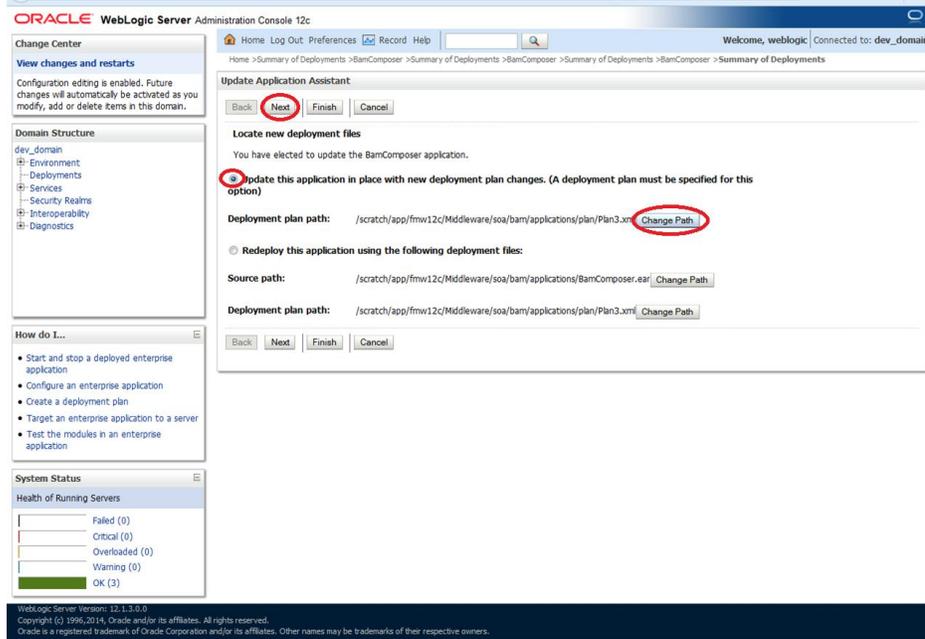
Deployments

Install Update Delete Start Stop

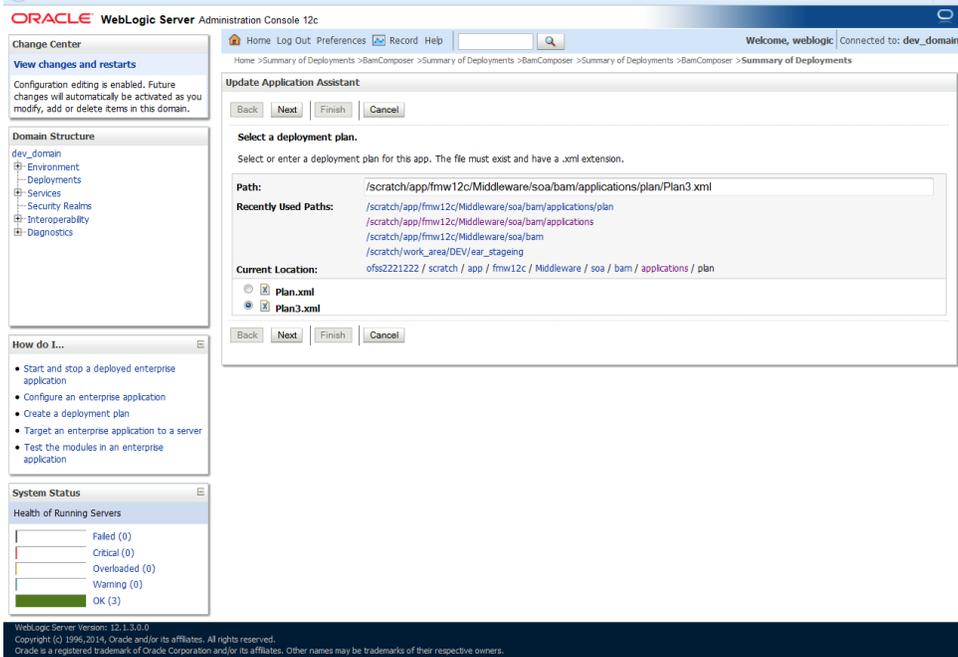
Showing 1 to 47 of 47 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
db2bul	Active	OK	Enterprise Application	soa_server1	313
BAMComposer	Active	OK	Enterprise Application	bam_server1	500
BamCQService	Active	OK	Enterprise Application	bam_server1	300
BamServer	Active	OK	Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5

10. Select the Update this application in place with new deployment plan changes and click on change path button.



11. Select the latest plan.xml in the in the path→next→next→Finish



**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of Deployments > BamComposer > Summary of Deployments > Summary of Deployments > Summary of Deployments > Summary of Deployments

Messages

- All changes have been activated. No restarts are necessary.
- Selected Deployments were updated.

**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 v | Stop v

Showing 1 to 47 of 47 Previous | Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bul	Active	OK	Enterprise Application	soa_server1	313
BamComposer	Prepared	OK	Enterprise Application	bam_server1	500
BamCQService	Active	OK	Enterprise Application	bam_server1	300
BamServer	Active	OK	Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314

## 12. Restart the BAM Composer application in the console

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of Deployments > BamComposer > Summary of Deployments > Summary of Deployments > Summary of Deployments > Summary of Deployments

Messages

- Selected Deployments have been requested to stop.

**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

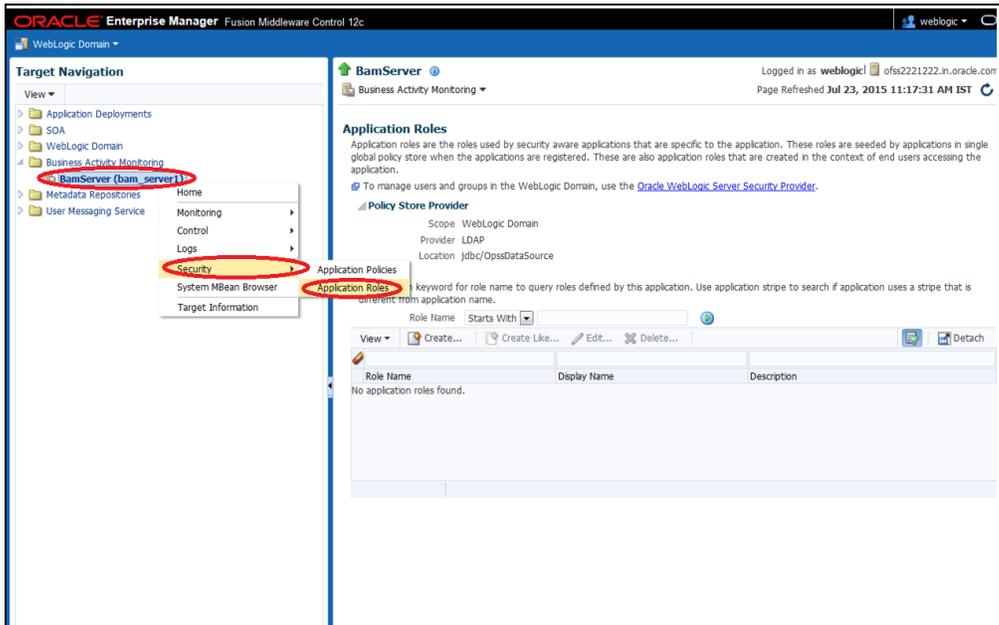
Install | Update | Delete | Start v | Stop v

Showing 1 to 48 of 48 Previous | Next

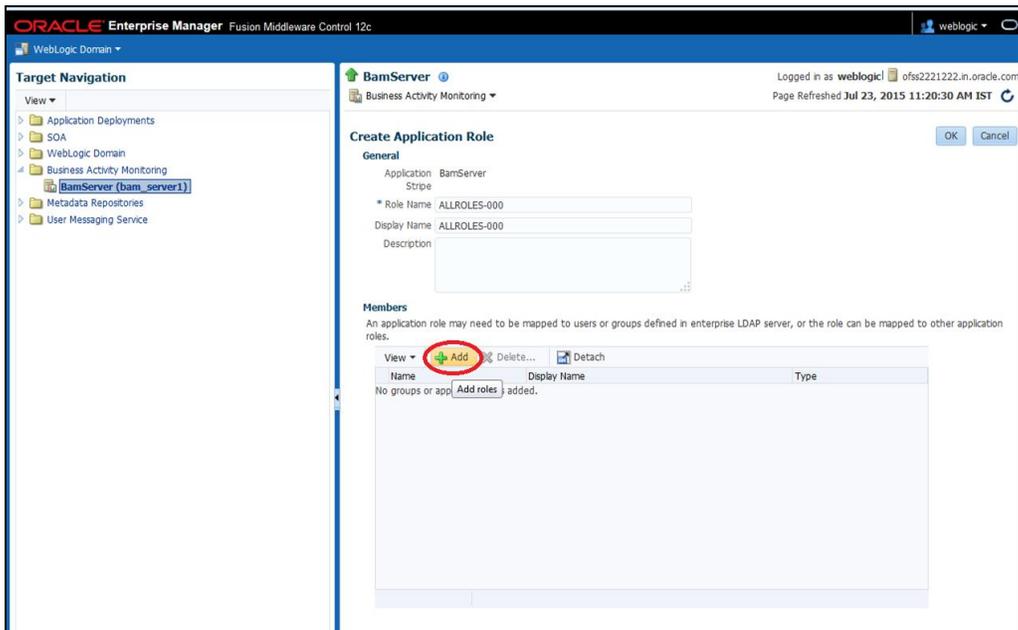
Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
b2bul	Prepared	OK	Enterprise Application	SOAServer	313
BamComposer	Prepared	OK	Enterprise Application	BAMServer	500
BamCQService	Active	OK	Enterprise Application	BAMServer	300
BamServer	Active	OK	Enterprise Application	BAMServer	400
BPMComposer	Active	OK	Enterprise Application	SOAServer	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	SOAServer	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	SOAServer	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
EMAdminIT (12.1.0.0.0)	Active		Enterprise Application	SOAServer	600

## 13. Login in to em console http://hostname:port/em

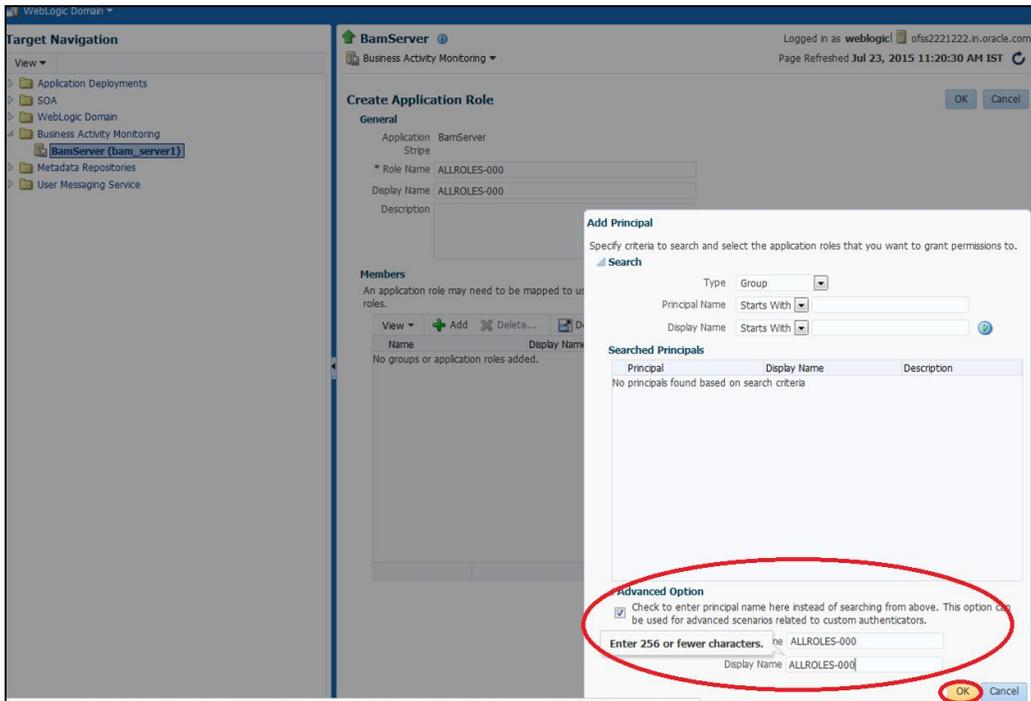
## 14. Right Click on BAM Server→Security→Application Roles



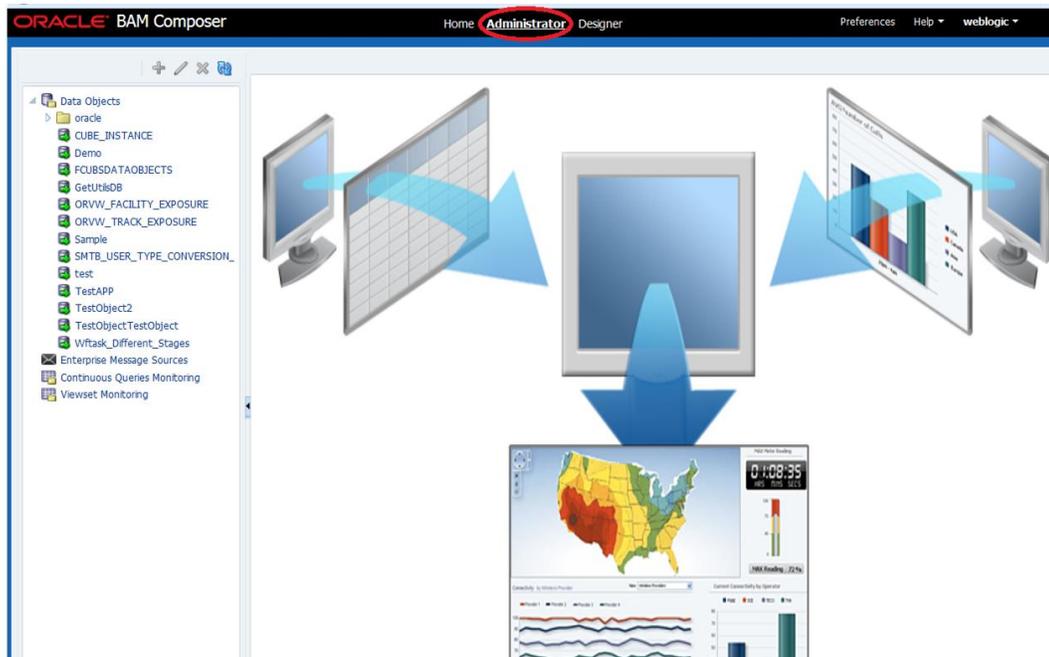
## 15. Click on Create → create application role with ALL ROLES-000→Click on ADD button in the Members



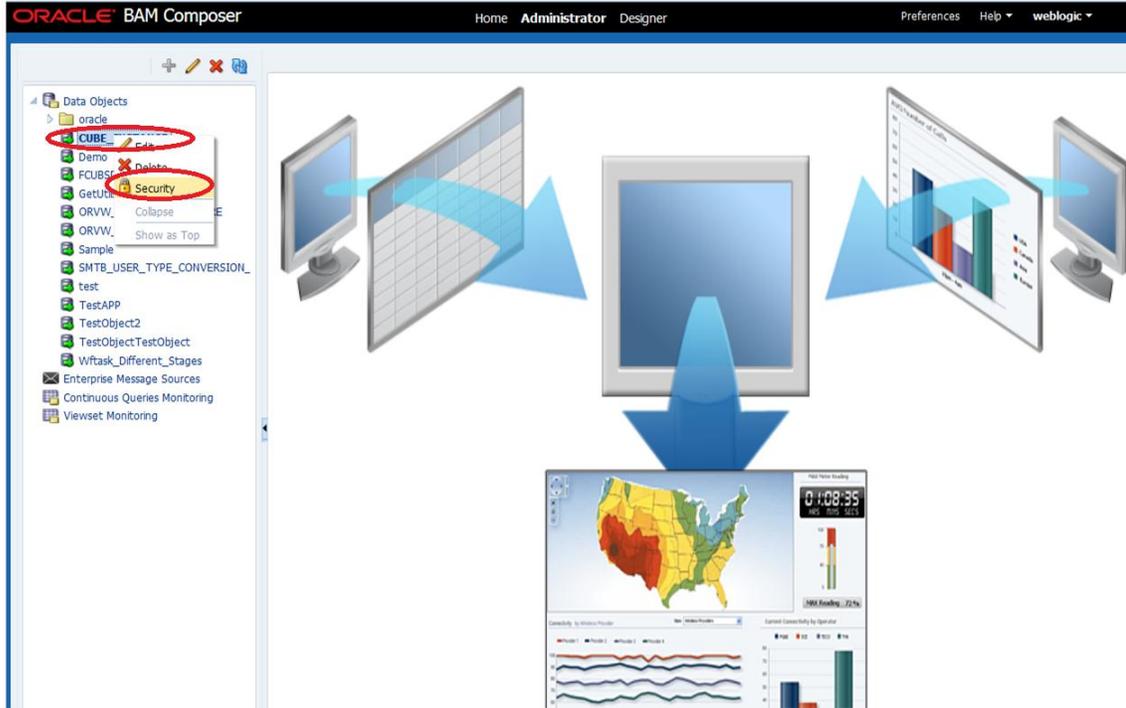
16. Select the Type as Group and add principle details be referring the below screen shot.



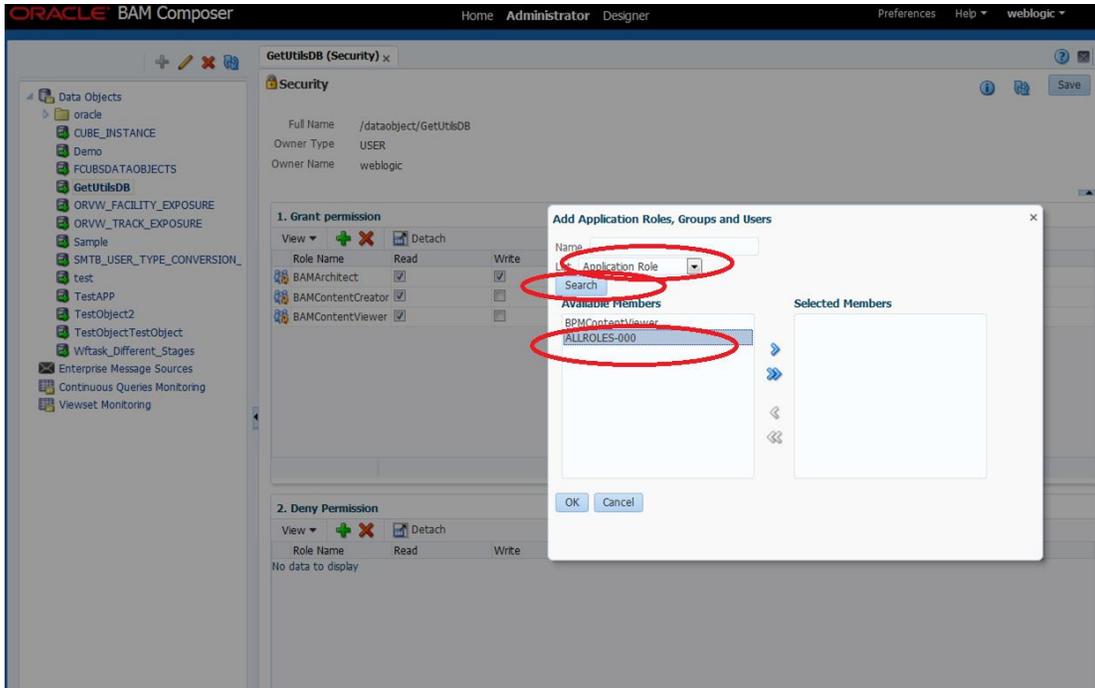
17. Login to BAM Composer → <http://hostname:port/bam/composer> → Click on Administrator.



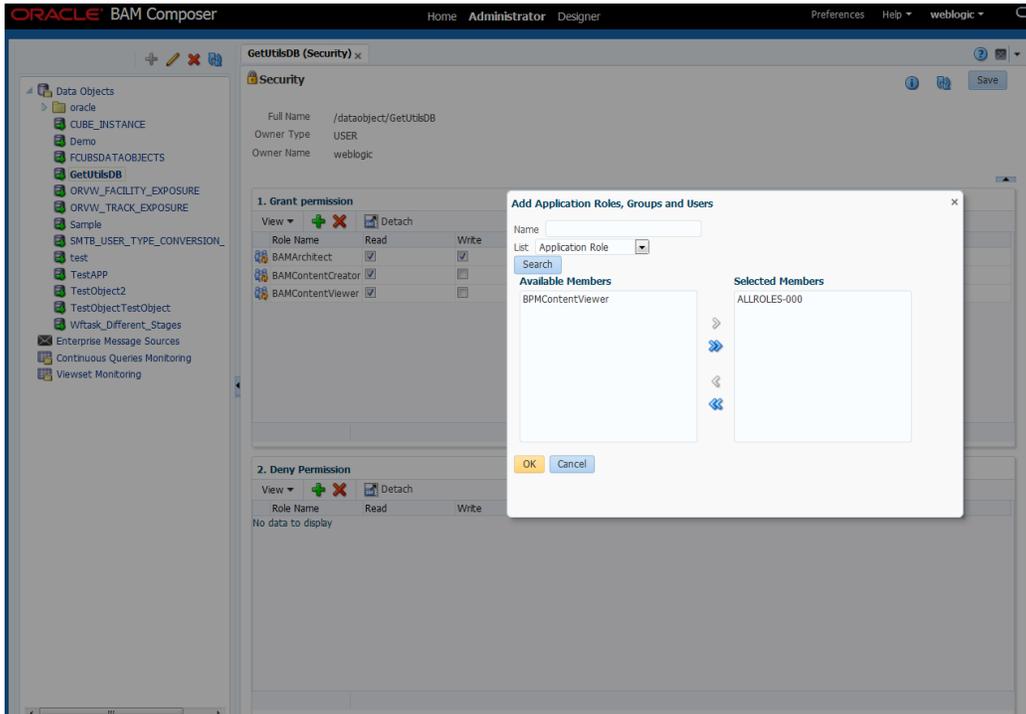
18. Go to Data Object→Right Click on CUBE\_INSTANCE→Security



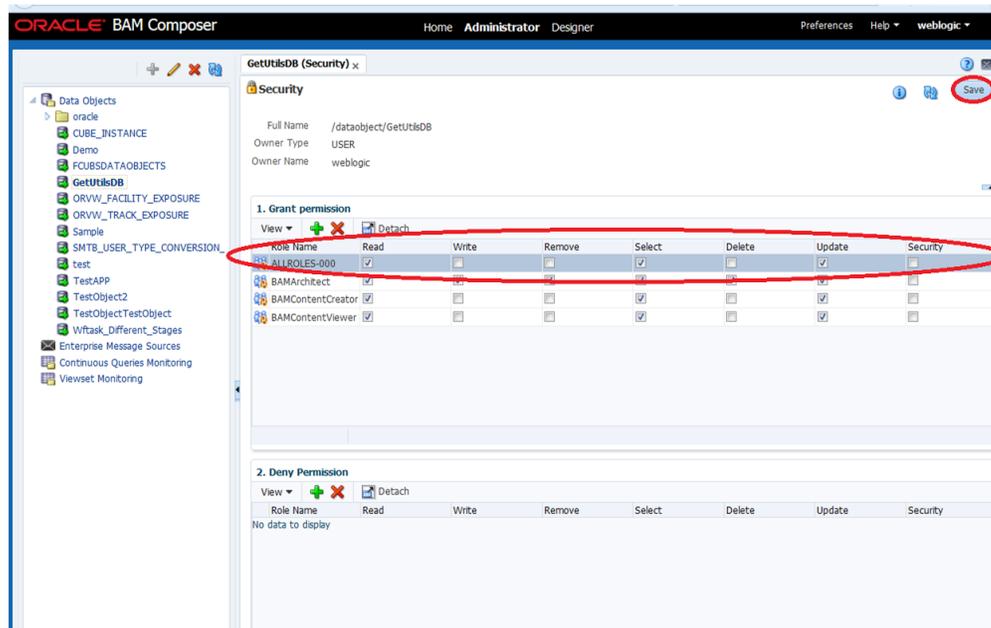
19. Click on Add button under Grant permission and search the list based on the Application Role



20. Move the ALLROLES-000 to Selected members.

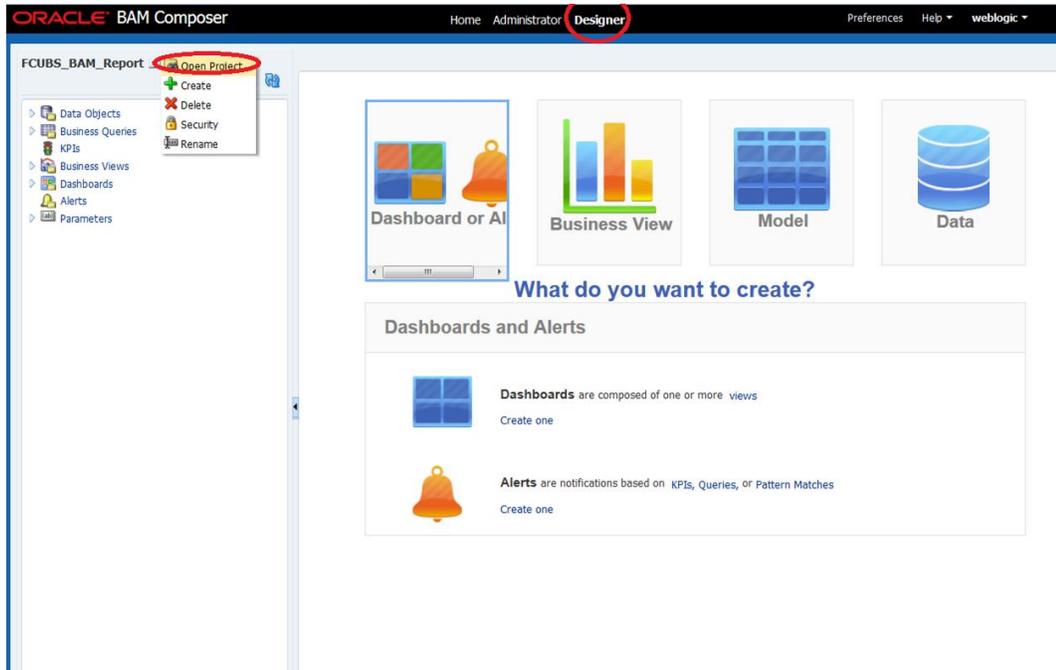


21. Click on read, select and Update check boxes → Click on Save.

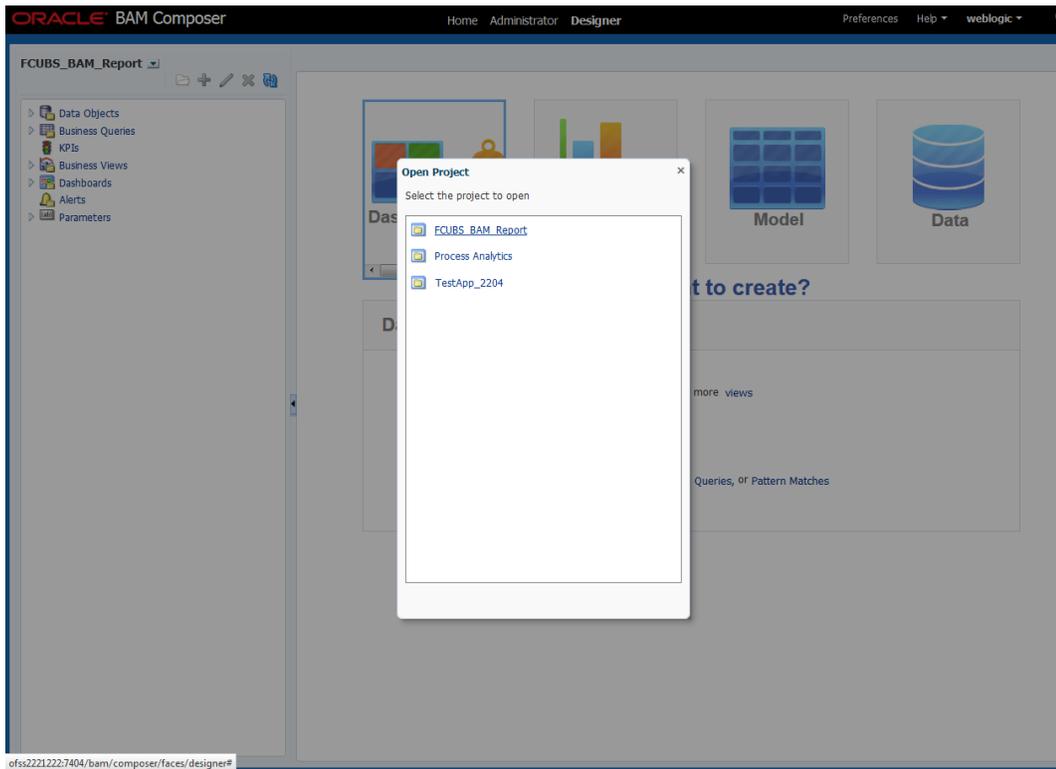


22. Follow the step 17 to 21 for other Data objects also. (cube\_instance, wftask\_different\_stages, ORVW\_TRACK\_EXPOSURE, ORVW\_FACILITY\_EXPOSURE, GetUtilsDB, SMTB\_USER\_TYPE\_CONVERSION\_VIEW, FCUBSDATAOBJECTS).

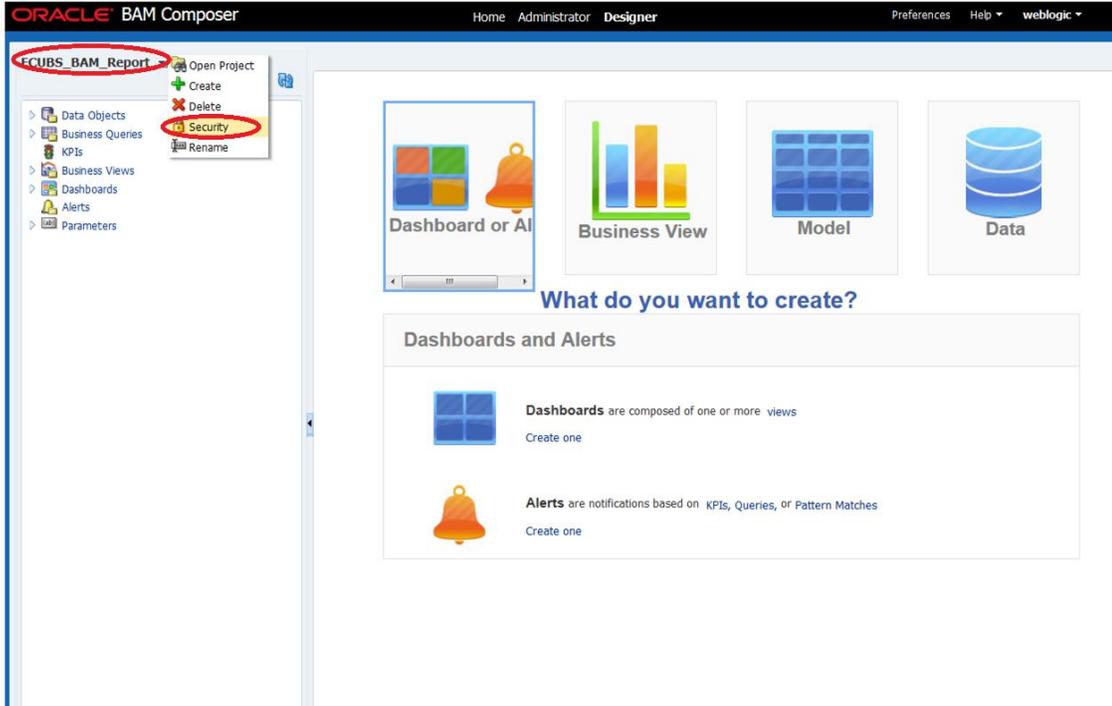
23. Click on Designer → Open Project



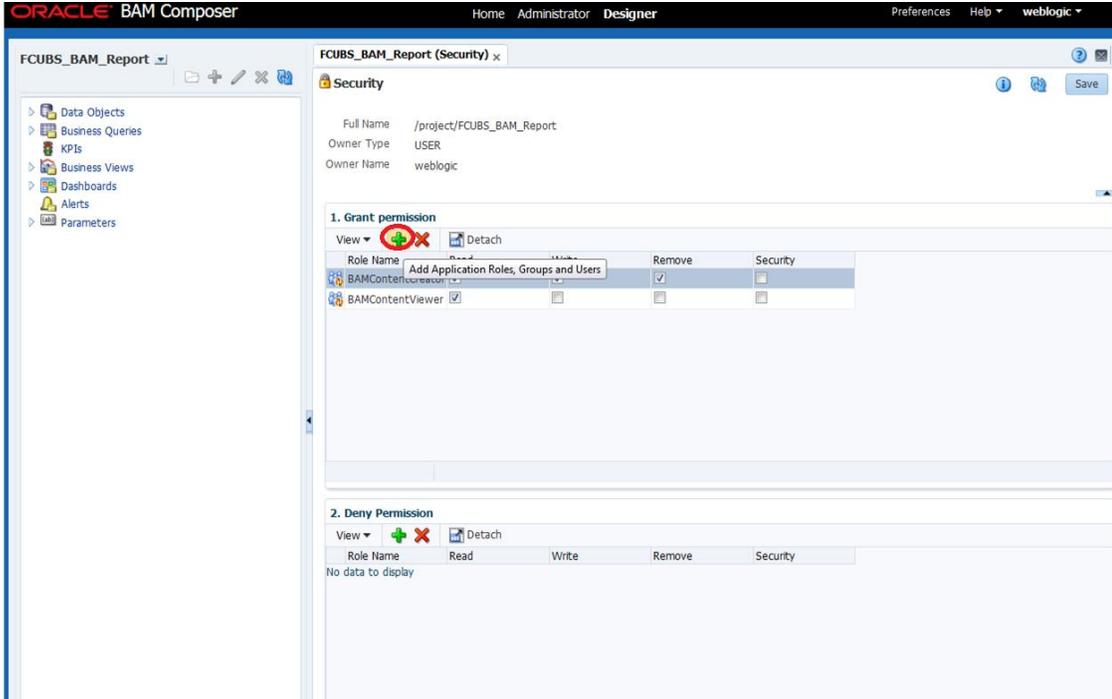
24. Click on FCUBS\_BAM\_report

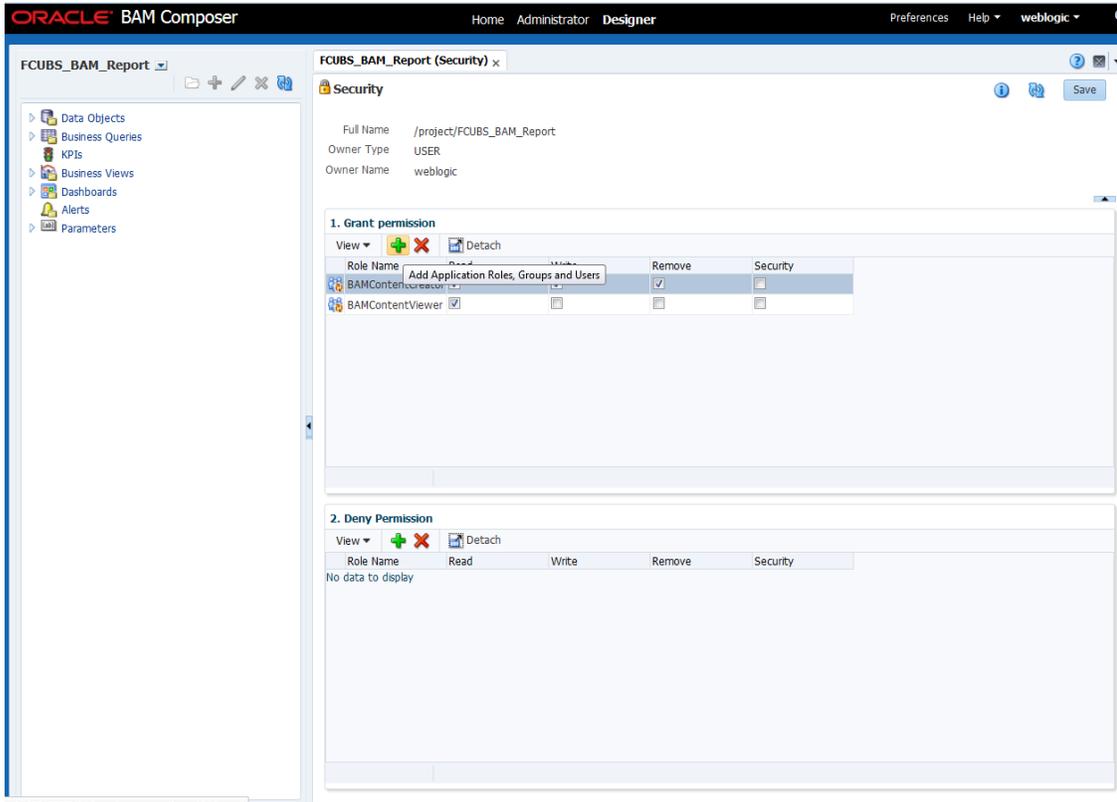


25. Click on FCUBS\_BAM\_Report → Security

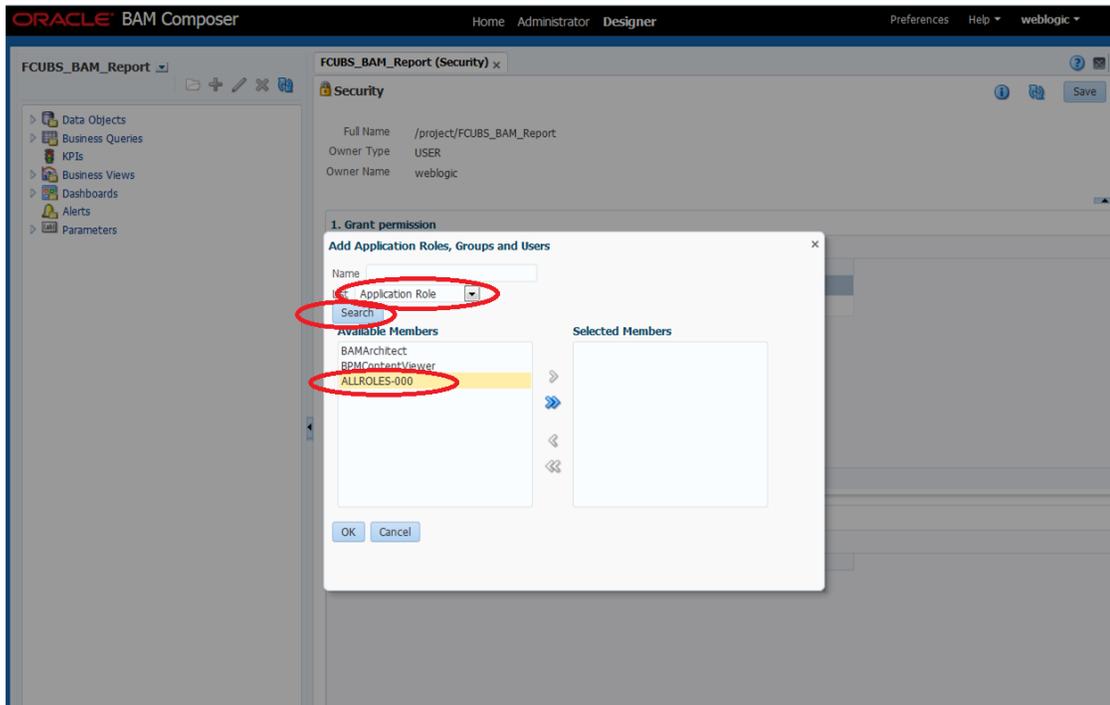


26. Click on ADD button Under Grant Permission.

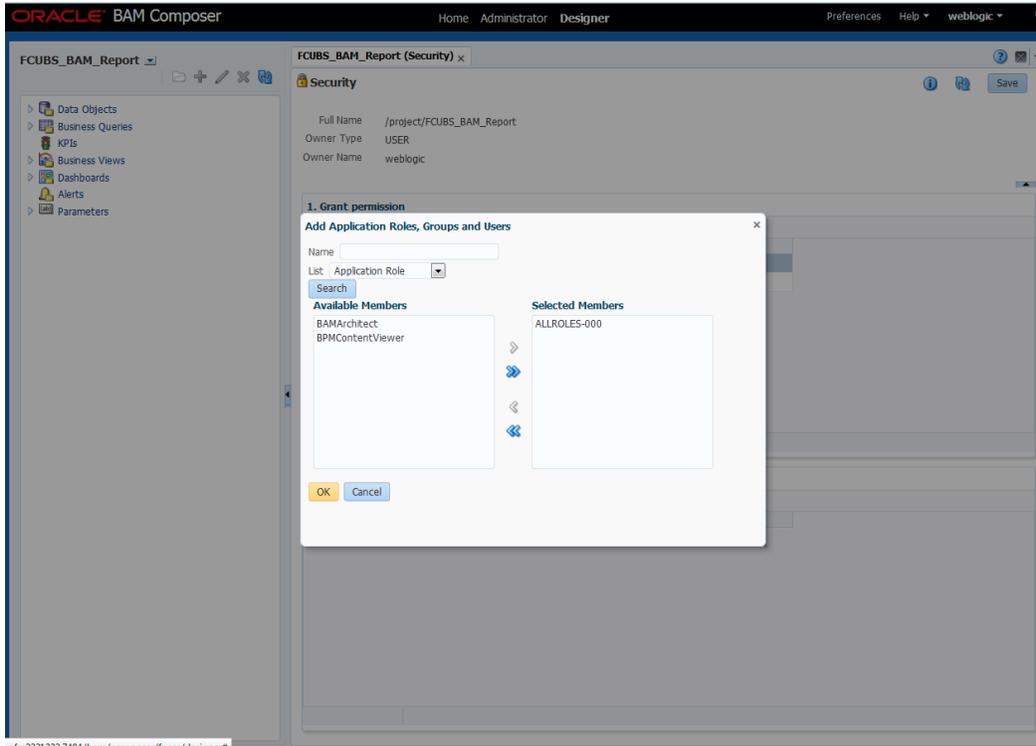




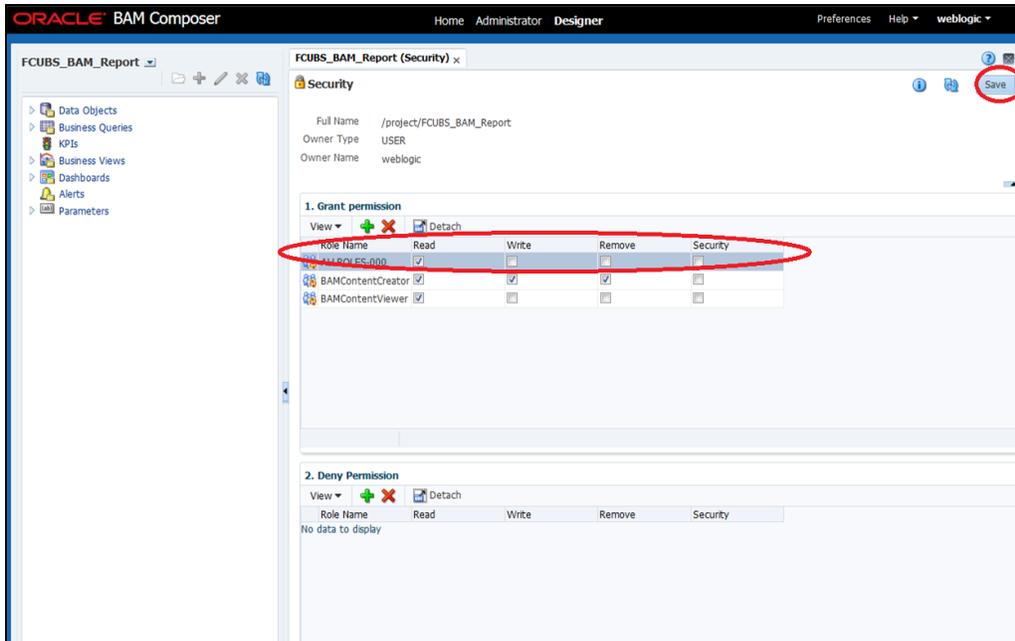
27. Search the List based on the Application Roles and Select the ALLROLES-000



28. Move the ALLROLES-000 to Selected Members and click on ok.



29. Select the Read check box for ALLROLES-000 → Click on Save

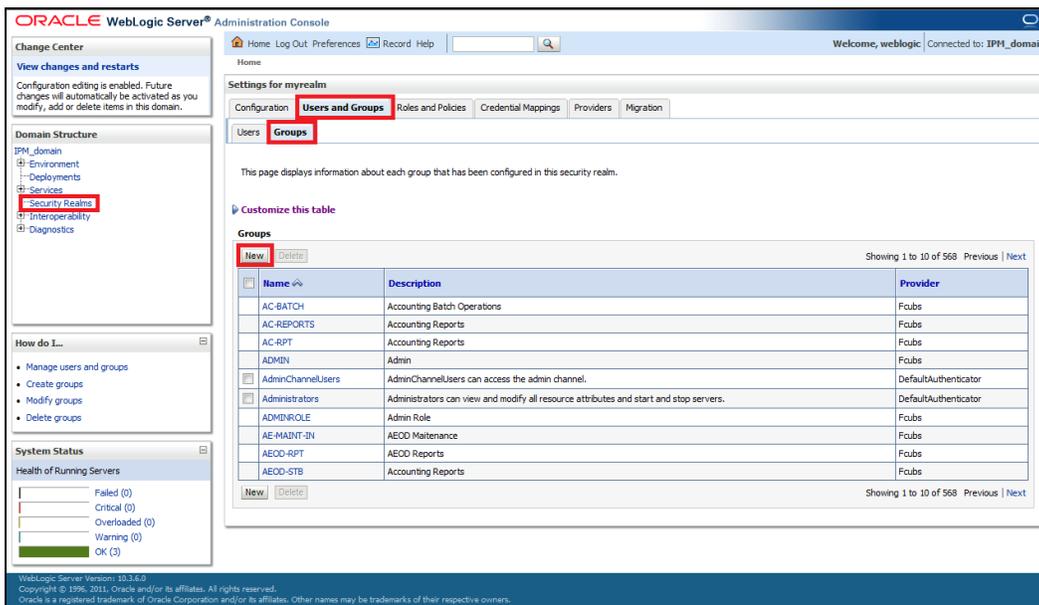


## 1.2.10 IPM configuration to edit the document

- 1) Login to the console, `http/s:<hostname>:<port>/console` with admin user
- 2) Follow the step 1.2.1 to add the “FCJCustomProvider”.

After adding, Navigate to security realms > myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.

- 3) After adding the custom authenticator,
  - Navigate to security realms >my realm > Users and Groups > Groups.
  - Click on the New button.

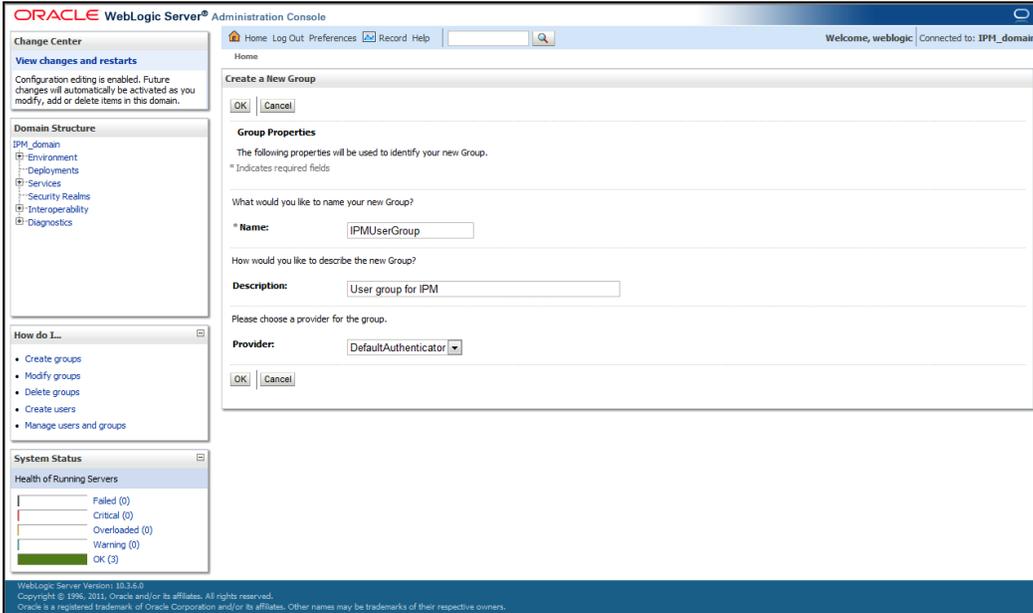


The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Groups' sub-tab is selected. Below the sub-tab, there is a 'New' button and a 'Delete' button. A table titled 'Groups' is displayed, showing a list of groups with columns for 'Name', 'Description', and 'Provider'. The table contains the following data:

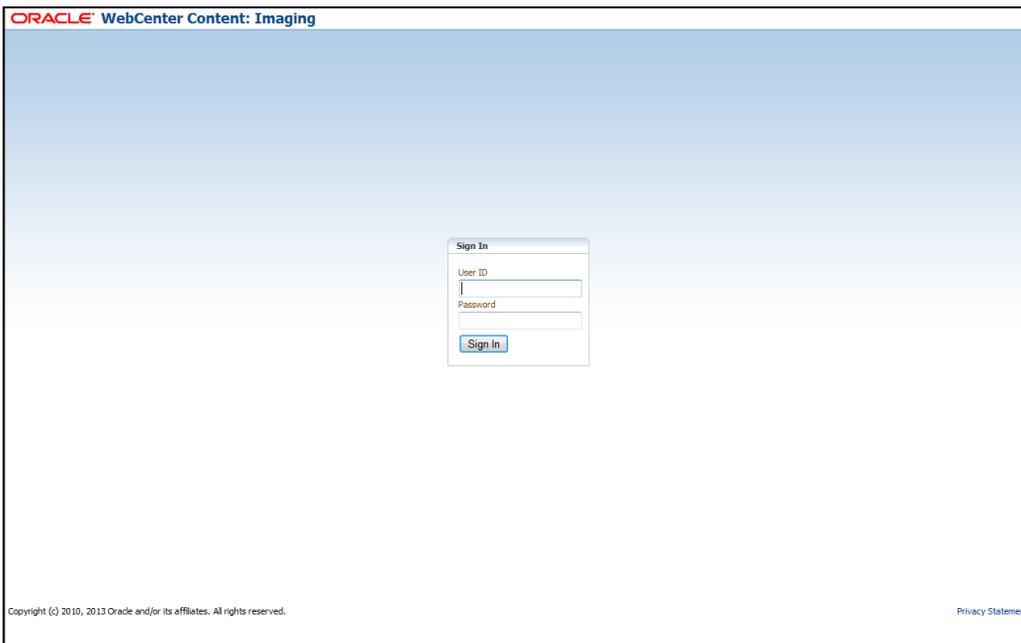
Name	Description	Provider
AC-BATCH	Accounting Batch Operations	Fcubs
AC-REPORTS	Accounting Reports	Fcubs
AC-RPT	Accounting Reports	Fcubs
ADMIN	Admin	Fcubs
AdminChannelUsers	AdminChannelUsers can access the admin channel.	DefaultAuthenticator
Administrators	Administrators can view and modify all resource attributes and start and stop servers.	DefaultAuthenticator
ADMINROLE	Admin Role	Fcubs
AE-MAINT-IN	AEOD Maintenance	Fcubs
AEOD-RPT	AEOD Reports	Fcubs
AEOD-STB	Accounting Reports	Fcubs

At the bottom of the console, there is a footer with the following text: 'WebLogic Server Version: 10.3.6.0 Copyright © 1996-2011, 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.'

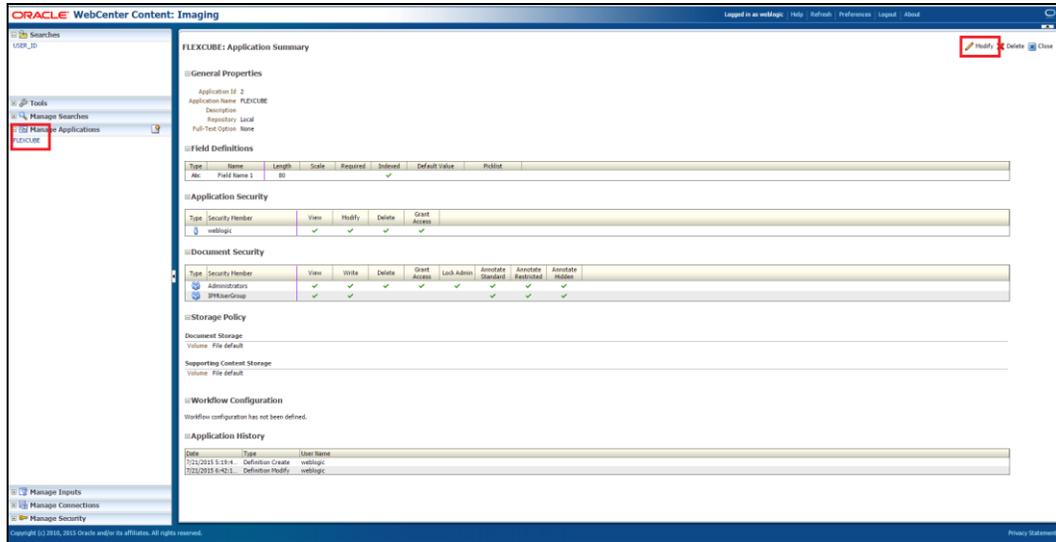
- 4) After Clicking on the new button,
  - Enter the name as “IPMUserGroup”
  - Description for it (optional)
  - And select the authenticator as “DefaultAuthenticator”
  - And then click “Ok”



- 5) Login to the Imaging URL `http/s:<hostname>:<port>/imaging` with admin user

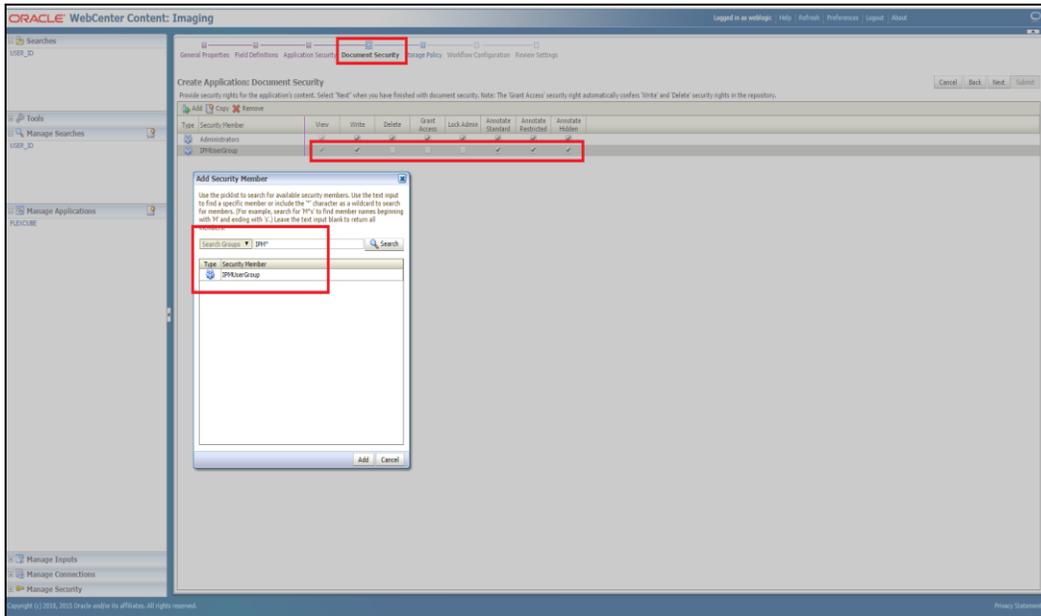


- a. Navigate to Manage Applications
- b. Click on the FLEXCUBE
- c. Then click on the modify on the right pane

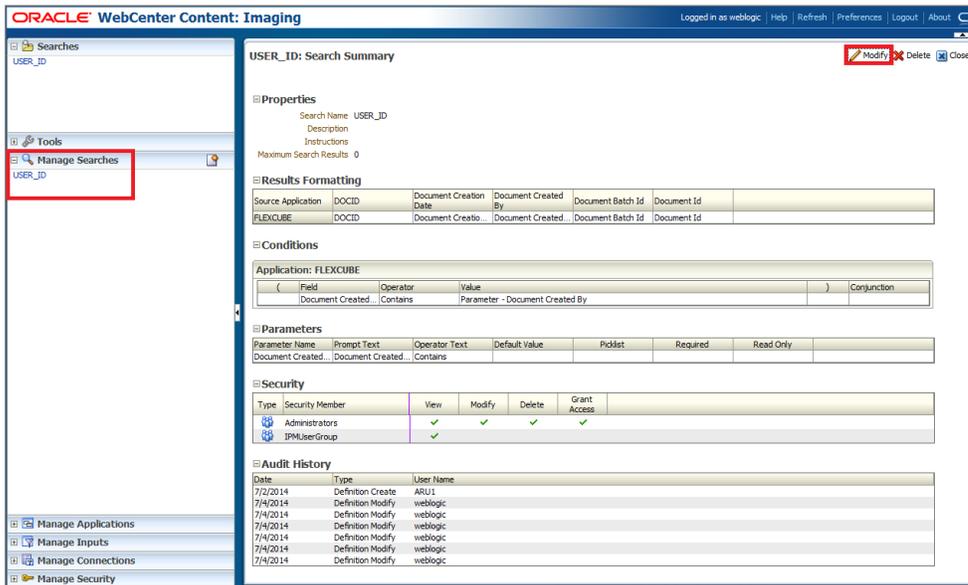


- 6) After clicking on the modify button,
  - a. Navigate to Document Security
  - b. Click on Add button
  - c. Click on Search button in the pop up window
  - d. Select the "IPMUserGroup"
  - e. Click on Add
  - f. IPMUserGroup will be listed in the panel, select view ,write,annotate Standard,Annotate Restricted and Annotate Hidden checkboxes.

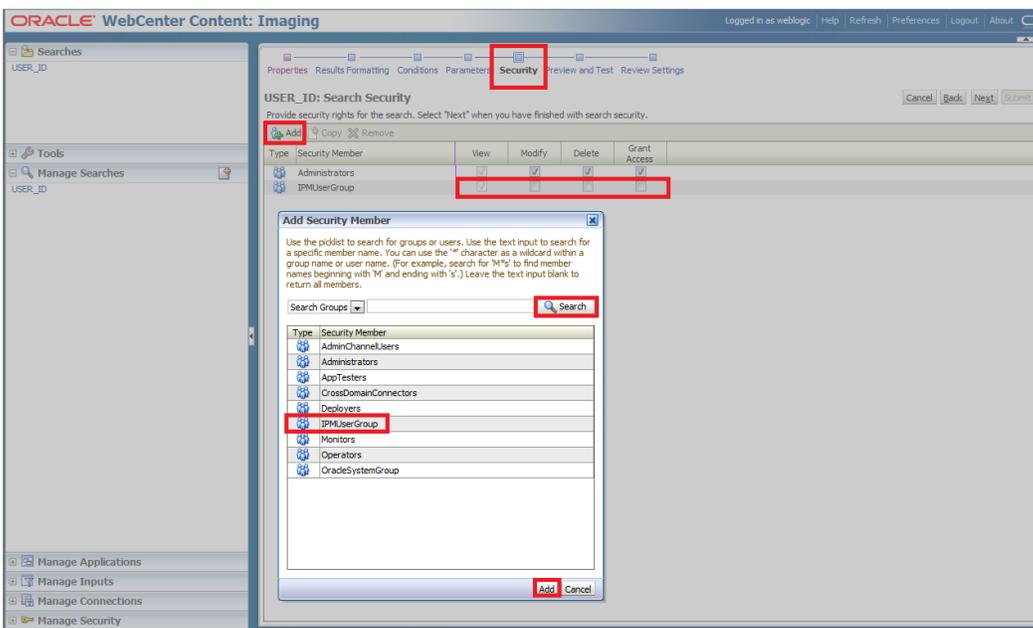
g. Finally click on the submit button on the right corner



- 7) After clicking on 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



- 8) After clicking on the modify button,
  - a. Navigate to Document Security
  - b. Click on Add button
  - c. Click on Search button in the pop up window
  - d. Select the "IPMUserGroup"
  - e. Click on Add
  - 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



- 9) Copy the FCBPELCIS.jar to location
 

```
<ORACLE_HOME >\user_projects\domains\<domian name>\lib
```
- 10) 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.GenericIdentityStoreProvider"
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.FCIDentityStoreFactory"/
>
  <property name="DATASOURCE_NAME" value="jdbc/fcjdevDS"/>
  <property name="INTERNAL_CONTEXT_REQUIRED" value="true"/>
  <property name="INTERNAL_CONTEXT_NAME"
value="internalstore"/>
</serviceInstance>
```



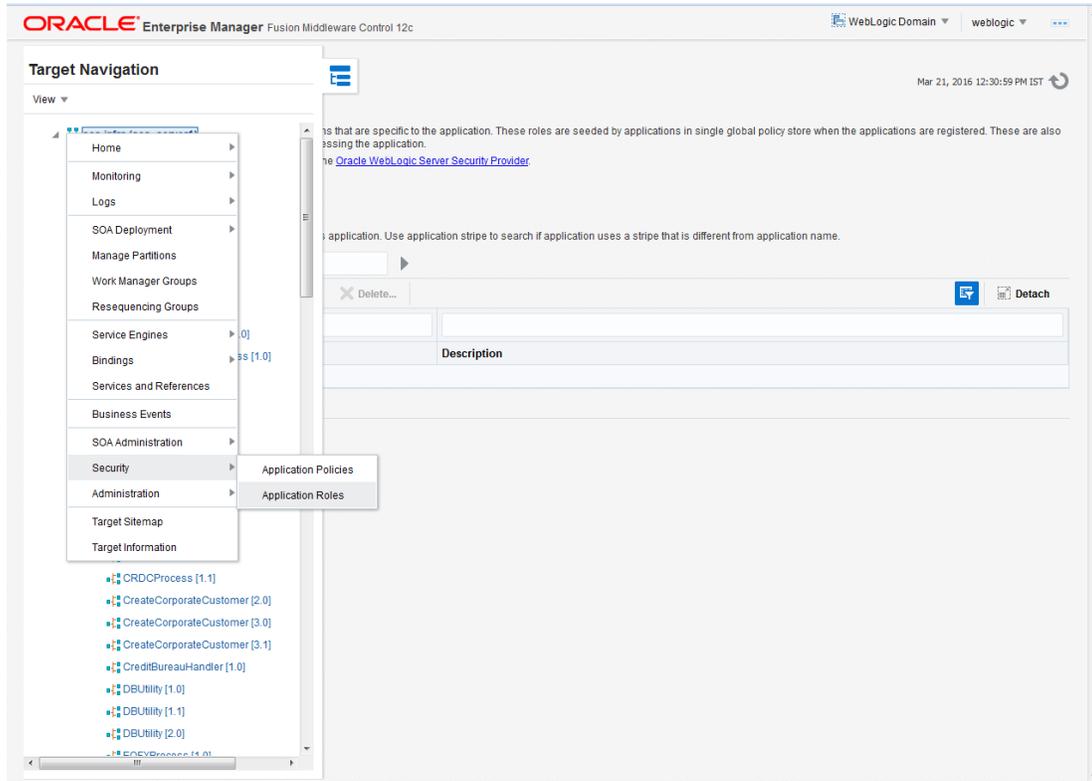
Make sure that the JNDI (jdbc/fcjdevDS) matches the value given during property file creation.

- 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 Supervisor Roles in EM

1. Right click on soa-infra. Select security→Application Roles



## 2. Search the Application Roles with “Starts with” option.

**ORACLE Enterprise Manager Fusion Middleware Control 12c** WebLogic Domain weblogic

soa-infra SOA Infrastructure Mar 21, 2016 12:30:59 PM IST

### Application Roles

Application roles are the roles used by security aware applications that are specific to the application. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles that are created in the context of end users accessing the application.

To manage users and groups in the WebLogic Domain, use the [Oracle WebLogic Server Security Provider](#).

Policy Store Provider

Search

Enter search keyword for role name to query roles defined by this application. Use application stripe to search if application uses a stripe that is different from application name.

Role Name Starts With

View Create... Create Like... Edit... Delete... Search application roles

Role Name	Display Name	Description
default_Composer	Composer for the Default Partition	A composer is responsible for making changes to composite artifacts, such as business rules in a business process, security poli...
default_Deployer	Composite Deployer for the Default P...	A deployer is responsible for deploying new applications, upgrading existing applications, and managing the continuous integratio...
default_Tester	Tester for the Default Partition	A tester performs integrated black box testing on preproduction systems. A system tester typically runs tests using a combination of...
default_ApplicationOperator	Application Operator for the Default Pa...	An application operator is responsible for handling customer complaints and making decisions on requests that result in faults in t...
default_Monitor	Monitor for the Default Partition	A default partition monitor is responsible for ensuring the successful operations of the deployed applications on the default partition.
MiddlewareOperator	SOA MiddleWare Operator	A middleware operator is responsible for ensuring operational continuity. A middleware operator is also the main point of contact w...
MiddlewareAdministrator	SOA Middleware Administrator	A middleware administrator is responsible for ensuring the continuous availability of the middleware servers, but is not always resp...
SOAAdmin	SOA Admin Role	SOA application admin role, has full privilege for performing any operations including security related
SOAOperator	SOA operator Role	SOA application operator, for common operational tasks like start, stop, monitor, backups
SOAMonitor	SOA Monitor Role	SOA application monitor role, has read-only privileges for monitoring
SOAAuditAdmin	SOA Audit Admin Role	SOA audit administrator role, can perform audit configuratoin and administration
SOAAuditViewer	SOA Audit Viewer Role	SOA audit viewer role, can view audit records
BPMWorkflowAdmin	BPM Workflow System Admin Role	BPM Workflow Administrator Application Role
BPMWorkflowCustomize	BPM Workflow Customize Role	BPM Workflow Customize Application Role
BPMAGAdmin	BPM Activity Guide Admin Role	BPM Activity Guide Administrator Application Role
BPMOrganizationAdmin	BPM Organization Admin role	BPM Organization Administrator Application Role
SOADesigner	SOA Designer	SOA Designer

10.184.133.168:7401/em/faces/ass/security/appRolesMain?type=oracle\_soainfra&target=/Domain\_soa\_domain/soa\_domain/soa\_server1/soa-infra#

3. Select the SOAdmin Role and Click on 'Edit option'.

The screenshot shows the Oracle Enterprise Manager interface for Fusion Middleware Control 12c. The page title is "Application Roles". Below the title, there is a search bar and a table of roles. The "SOAdmin" role is highlighted in blue. The table has three columns: "Role Name", "Display Name", and "Description".

Role Name	Display Name	Description
default_Composer	Composer for the Default Partition	A composer is responsible for making changes to composite artifacts, such as business rules in a business process, security poli...
default_Deployer	Composite Deployer for the Default P...	A deployer is responsible for deploying new applications, upgrading existing applications, and managing the continuous integratio...
default_Tester	Tester for the Default Partition	A tester performs integrated black box testing on preproduction systems. A system tester typically runs tests using a combination of...
default_ApplicationOperator	Application Operator for the Default Pa...	An application operator is responsible for handling customer complaints and making decisions on requests that result in faults in t...
default_Monitor	Monitor for the Default Partition	A default partition monitor is responsible for ensuring the successful operations of the deployed applications on the default partition.
MiddlewareOperator	SOA MiddleWare Operator	A middleware operator is responsible for ensuring operational continuity. A middleware operator is also the main point of contact w...
MiddlewareAdministrator	SOA Middleware Administrator	A middleware administrator is responsible for ensuring the continuous availability of the middleware servers, but is not always resp...
SOAdmin	SOA Admin Role	SOA application admin role, has full privilege for performing any operations including security related
SOAOperator	SOA operator Role	SOA application operator, for common operational tasks like start, stop, monitor, backups
SOAMonitor	SOA Monitor Role	SOA application monitor role, has read-only privileges for monitoring
SOAAuditAdmin	SOA Audit Admin Role	SOA audit administrator role, can perform audit configuratoin and administration
SOAAuditViewer	SOA Audit Viewer Role	SOA audit viewer role, can view audit records
BPMWorkflowAdmin	BPM Workflow System Admin Role	BPM Workflow Administrator Application Role
BPMWorkflowCustomize	BPM Workflow Customize Role	BPM Workflow Customize Application Role
BPMAGAdmin	BPM Activity Guide Admin Role	BPM Activity Guide Administrator Application Role
BPMOrganizationAdmin	BPM Organization Admin role	BPM Organization Administrator Application Role
SOADesigner	SOA Designer	SOA Designer

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

The screenshot shows the "Edit Application Role : SOAdmin" dialog box in Oracle Enterprise Manager. The "Add Principal" sub-dialog is open, showing search criteria for application roles. The "Type" dropdown is set to "Group". The "Principal Name" and "Display Name" search fields are empty. The "Searched Principals" table is empty, showing "No search conducted".

**Add Principal**

Specify criteria to search and select the application roles that you want to grant permissions to.

**Search**

Type: Group

Principal Name: Starts With

Display Name: Starts With

**Searched Principals**

Principal	Display Name	Description
No search conducted		

**Advanced Option**

Check to enter principal name here instead of searching from above. This option can be used for advanced scenarios related to custom authenticators.

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 screenshot shows the Oracle Enterprise Manager interface for editing an application role. The main window is titled "Edit Application Role : SOAAdmin". A dialog box titled "Add Principal" is open in the foreground. The dialog box contains the following fields and options:

- Type:** Group
- Principal Name:** Starts With ALLROLES-000
- Display Name:** Starts With [ ]
- Searched Principals:** A table with the following data:

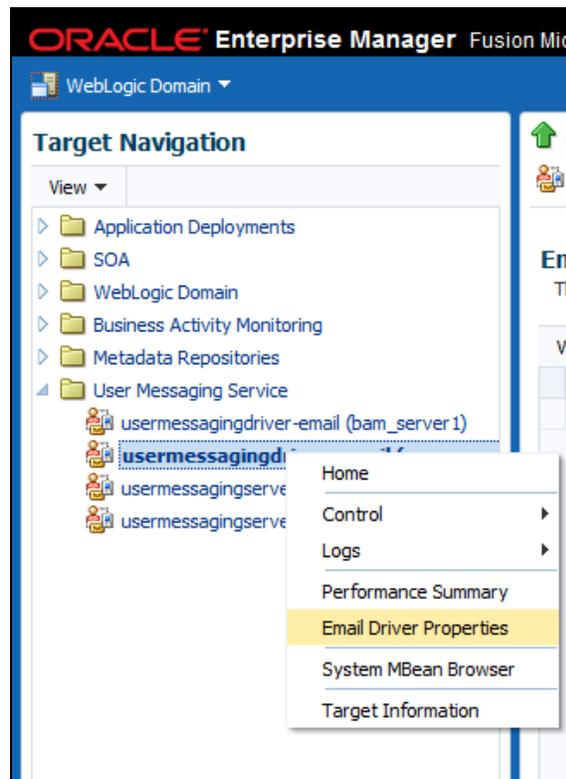
Principal	Display Name	Description
ALLROLES-000		ALLROLES-000
- Advanced Option:**  Check to enter principal name here instead of searching from above. This option can be used for advanced scenarios related to custom authenticators.

The dialog box has "OK" and "Cancel" buttons at the bottom right. The background interface shows the "SOA Infrastructure" tree and the "Members" section of the application role.

6. Click on Ok .

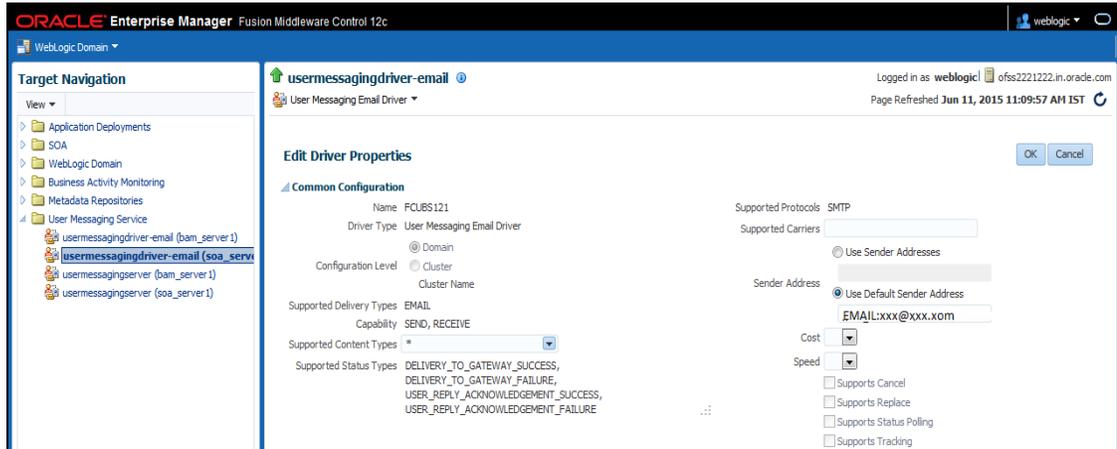
## 1.2.12 Email Driver Configuration

1. Login to EM console
13. Navigate to User Messaging Service
14. Right click usermessagingdriver-email (soa\_server1)
15. Click on Email Driver Properties



16. .Enter the sender Address and default sender address (This id will be used as sender address).

17. .Enter the supported protocols (SMTP)



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

Driver-Specific Configuration				
Name	Description	Mandatory	Encoded Credential	Value
E-mail Receiving Protocol	E-mail receiving protocol. The possible values are IMAP and POP3.			IMAP
Connection Retry Limit	This value specifies the number of times to retry connecting to the incoming mail server, if the connection is lost due to some reason. The default value is -1 which means no limit to the number of tries.			-1
Message Cleanup Frequency	The frequency to permanently remove deleted messages. The unit is in seconds and the default value is 600 seconds. A negative value indicates the messages should not be expunged. For the POP3 protocol, the message is expunged after it is processed.			600
	Whether the driver should mark the messages deleted after they have been			

19. Enter the Receive folder in the mailbox (INBOX)

20. Enter the Outgoing mail server hostname or IP

21. .Enter the outgoing mail server port

22. .Enter the outgoing default from address

23. Enter the Outgoing user name and password if required

Name	Description	Mandatory	Encoded Credential	Value
Outgoing Mail Server	The name of the SMTP server. Mandatory only if e-mail sending is required.			XXXXXX
Outgoing Mail Server Port	Outgoing Mail Server Port			25
Outgoing Mail Server Security	The security used by SMTP server. Possible values are None, TLS and SSL. Default value is None.			None
Default From Address	Deprecated. Use Default Sender Address instead. The default FROM address (if one is not provided in the outgoing message).			xxx@xxx.com
Outgoing Username	The username used for SMTP authentication. Required only if SMTP authentication is supported by the SMTP server.			

24. Navigate to SOA Administration ->Workflow Properties

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The left-hand 'Target Navigation' pane shows a tree view where 'SOA Administration' is expanded, and 'Workflow Properties' is selected. The main content area displays the 'Workflow Notification Properties' configuration page for the 'soa-infra' target. The page includes a 'Hailer' tab, an 'Information' section with a note that changes require a server restart, and a 'Workflow Notification Properties' section. Under 'Notification Service', the 'Notification Mode' is set to 'Email'. Three email addresses are configured: 'From Address' (xxx@xxx.com), 'Actionable Address' (ggg@ggg.com), and 'Reply To Address' (xxx@xxx.com). 'Apply' and 'Revert' buttons are visible at the top right of the configuration area.

25. Select the notification mode as Email/ALL and enter the from address Actionable address and reply to Address.

## 1.2.13 TimeOut Settings for BPEL

1. Login in to Console (<http://hostname:port/console>)
2. Click on Deployments

The screenshot displays the Oracle WebLogic Server Administration Console interface. The browser address bar shows the URL `10.184.135.218:7001/console/console.portal?_nfpb=true&_pageLabel=HomePage1`. The page title is "ORACLE WebLogic Server Administration Console 12c". The breadcrumb navigation path is "Home > AlphaDomain > Summary of Servers > AlphaDomain > Summary of Servers > Summary of Deployments > soa-infra > BPELEngineBean".

The interface is divided into several sections:

- Change Center:** View changes and restarts. Configuration editing is enabled.
- Domain Structure:** A tree view showing the hierarchy: AlphaDomain > Environment > Servers > Clusters > Coherence Clusters > Machines > Virtual Hosts > Work Managers > Startup and Shutdown Classes > Deployments > Services > Security Realms > Interoperability > WTC Servers.
- How do I...:** Search the configuration, use the Change Center, record WLST Scripts, change console preferences, manage console extensions, and monitor servers.
- System Status:** Health of Running Servers: Failed (0), Critical (0), Overloaded (0), Warning (0).
- Home Page:**
  - Information and Resources:** Helpful Tools (Configure applications, Configure GridLink for RAC Data Source, Configure a Dynamic Cluster, Recent Task Status, Set your console preferences, Oracle Enterprise Manager) and General Information (Common Administration Task Descriptions, Read the documentation, Ask a question on My Oracle Support).
  - Domain Configurations:** Domain (Domain), Environment (Servers, Clusters (Server Templates, Migratable Targets), Coherence Clusters, Machines, Virtual Hosts, Work Managers, Startup And Shutdown Classes), Services (Messaging (JMS Servers, Store-and-Forward Agents, JMS Modules, Path Services, Bridges), Data Sources, Persistent Stores, XML Registries, XML Entity Caches, Foreign JNDI Providers, Work Contexts, JCOM, Mail Sessions, FileT3, JTA, OSB Frameworks), Interoperability (WTC Servers, Jolt Connection Pools), Diagnostics (Log Files, Diagnostic Modules, Built-in Diagnostic Modules, Diagnostic Images, Request Performance, Archives, Context, SNMP), and Charts and Graphs (Monitoring Dashboard).
  - Your Deployed Resources:** A section with a red circle around the "Deployments" link.
  - Your Applications & Security Settings:**

3. Click on SOA\_INFRA Application under deployments.

Name	State	Health	Type	Targets	Deployment Order
oracle.wsm.console.core.view(1.0,12.1.3.0)	Active		Library	AdminServer	311
oracle.wsm.seedpolicies(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
OracleBamAdapter	Installed		Resource Adapter		329
OracleBPMBCServerApp	Active	OK	Enterprise Application	SOAServer	384
OracleBPMComposerRolesApp	Active	OK	Enterprise Application	SOAServer	382
OracleBPMProcessRolesApp	Active	OK	Enterprise Application	SOAServer	381
OracleBPMWorkspace	Active	OK	Enterprise Application	SOAServer	383
oral18n-adf(11,11.1.1.1.0)	Active		Library	AdminServer, BAMServer, SOAServer	100
owasp.esap(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
SAPAdapter	Installed		Resource Adapter		335
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
<b>soa-infra</b>	Active	OK	Enterprise Application	SOAServer	350
soa-webapps	Active	OK	Enterprise Application	SOAServer	360
soa.em	Active		Library	AdminServer	100
SocketAdapter	Installed		Resource Adapter		326
state-management-provider-memory-rar-12.1.3	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
UDJ(11,12.1.3.0.0)	Active		Library	AdminServer, BAMServer, SOAServer	100

4. Click on BPEL Engine EJB → Configuration → set Transaction Time Out to 300.

B2BInstanceMessageBean	EJB
B2BIntegratorBean	EJB
B2BMetadataUtilityBean	EJB
B2BStarterBeanWLS	EJB
B2BUtilityBean	EJB
BAMActionMDB	EJB
BeamActionMDB	EJB
BottleneckDetectionBean	EJB
BPELActivityManagerBean	EJB
BPELAuditTrailBean	EJB
BPELCacheRegistryBean	EJB
BPELCacheStoreBean	EJB
BPELClusterBean	EJB
BPELDeliveryBean	EJB
BPELDispatcherBean	EJB
<b>BPELEngineBean</b>	EJB
BPELFind(BPELEngineBean, Level 3, 22 of 106)	EJB
BPELInstanceManagerBean	EJB
BPELKeyGeneratorBean	EJB
BPELProcessManagerBean	EJB
BPELSensorValuesBean	EJB
BPELServerManagerBean	EJB
BPELTestInstanceManager	EJB
BpmAGProcessBrokerServiceBean	EJB
BpmAppServiceBean	EJB
BPMDataObjectSecurityService	EJB
BPMNActivityManagerBean	EJB
BPMNAuditTrailBean	EJB
BPMNClusterBean	EJB

The screenshot shows the configuration page for the BPELEngineBean. The 'Transaction Timeout' field is highlighted with a red circle and set to 300. Other fields include Name (BPELEngineBean), Type (stateless), Transaction Type (Container), EJB Class Name (com.collaxa.cube.engine.ejb.inpl.bpel.BPELEngineBean), Pool Configuration (Initial Beans in Free Pool: 100, Max Beans in Free Pool: 1000), Idle Timeout (0), Enterprise Bean Configuration (Network Access Point, Run As Principal Name, Create As Principal Name, Remove As Principal Name, Passivate As Principal Name, JNDI Name, Local JNDI Name, Dispatch Policy), and a Save button at the bottom.

5. Go to EJBs→BPEL Delivery Bean→ Configuration→set TransactionTimeout to 300

The screenshot shows a list of EJBs in the Oracle WebLogic Server console. The BPELDeliveryBean is highlighted with a red circle. The table below lists the EJBs and their types.

EJB Name	Type
B2BUtilityBean	EJB
BAMActionMDB	EJB
BeamActionMDB	EJB
BottleneckDetectionBean	EJB
BPELActivityManagerBean	EJB
BPELAuditTrailBean	EJB
BPELCacheRegistryBean	EJB
BPELCacheStoreBean	EJB
BPELClusterBean	EJB
BPELDeliveryBean	EJB
BPELDispatcher	BPELDeliveryBean, Level 3, 20 of 106
BPELEngineBean	EJB
BPELFinderBean	EJB
BPELInstanceManagerBean	EJB
BPELKeyGeneratorBean	EJB
BPELProcessManagerBean	EJB
BPELSensorValuesBean	EJB
BPELServerManagerBean	EJB
BPELTestInstanceManager	EJB
BpmAGProcessBrokerServiceBean	EJB
BpmAppServiceBean	EJB
BPMDataObjectSecurityService	EJB
BPMNActivityManagerBean	EJB
BPMNAuditTrailBean	EJB
BPMNClusterBean	EJB
BPMNDeliveryBean	EJB
BPMNDispatcherBean	EJB
BPMNEngineBean	EJB
BPMNFinderBean	EJB

The screenshot displays the configuration page for an EJB in the Oracle WebLogic Server console. On the left, there are panels for 'How do I...' and 'System Status'. The main area is divided into sections: 'Pool Configuration' and 'Enterprise Bean Configuration'. In the 'Pool Configuration' section, 'Initial Beans in Free Pool' is set to 200 and 'Max Beans in Free Pool' is set to 1000. In the 'Enterprise Bean Configuration' section, the 'Transaction Timeout' field is highlighted with a red circle and set to 1800. Other fields include 'Network Access Point', 'Run As Principal Name', 'Create As Principal Name', 'Remove As Principal Name', 'Passivate As Principal Name', 'JNDI Name', 'Local JNDI Name', and 'Dispatch Policy'. A 'Save' button is located at the bottom left of the configuration area.

6. Login in to Console → JTA
7. Set the JTA timeout According to the below condition. Make sure BPELEngineBean + BPELDeliveryBean is  $\leq$  JTA timeout  $(300+300 \leq 600)$

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: dev\_domain

Home > Summary of Deployments > dev\_domain

### Settings for dev\_domain

**Configuration** Monitoring Control Security Web Service Security Notes

General **JTA** JPA EJBs Web Applications Logging Log Filters

Save

Use this page to define the Java Transaction API (JTA) configuration of this WebLogic Server domain.

**Timeout Seconds:**  Specifies the maximum amount of time, in seconds, an active transaction is allowed to be in the first phase of a two-phase commit transaction. If the specified amount of time expires, the transaction is automatically rolled back. [More Info...](#)

**Abandon Timeout Seconds:**  Specifies the maximum amount of time, in seconds, a transaction manager persists in attempting to complete the second phase of a two-phase commit transaction. [More Info...](#)

**Before Completion Iteration Limit:**  The maximum number of cycles that the transaction manager performs the beforeCompletion synchronization callback for this WebLogic Server domain. [More Info...](#)

**Max Transactions:**  The maximum number of simultaneous in-progress transactions allowed on a server in this WebLogic Server domain. [More Info...](#)

**Max Unique Name Statistics:**  The maximum number of unique transaction names for which statistics are maintained. [More Info...](#)

**Checkpoint Interval Seconds:**  The interval at which the transaction manager creates a new transaction log file and checks all old transaction log files to see if they are ready to be deleted. [More Info...](#)

**Write recovery logs when determiners configured** Indicates two-phase transaction recovery logs are written even if one or more determiners are configured. [More Info...](#)

**Determiners:**  Specifies a list of one or more transaction resources (determiners) separated by line breaks. A determiner's in-doubt transaction records are used during transaction recovery when a TLog is not present. [More Info...](#)

**Forget Heuristics** Specifies whether the transaction manager automatically performs an XA Resource forget operation for heuristic transaction completions. [More Info...](#)

**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**

- dev\_domain
  - Environment
  - Deployments
  - Services
  - Security Realms
  - Interoperability
  - Diagnostics

**How do I...**

- Configure domain JTA options
- Configure advanced domain JTA options

**System Status**

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (4)

8. Login in to EM console (<http://host:port/em>)→SOA dminstration→BPEL Properties→MoreConfigpropeties→ Syncmax timeout .Change the SyncmaxtimeOut to 200 secs

The screenshot displays the Oracle Enterprise Manager (EM) console interface. On the left, the 'Target Navigation' tree shows the 'soa-infra' target selected, with a context menu open over 'SOA Administration'. The menu options include 'Common Properties', 'BPEL Properties', 'BPMN Properties', 'Mediator Properties', 'Workflow Properties', 'B2B Server Properties', 'Cross References', 'Token Configurations', and 'Auto Purge'. The 'BPEL Properties' option is highlighted. The main area shows the 'soa-infra (SOAServer)' dashboard. The 'SOA Runtime Health' section indicates 'Initialized Successfully' with green checkmarks for 'No Composite Start-Up Errors', 'No EIS Connectivity Errors', 'All Composites are UP', and 'All adapter service endpoints are UP'. The 'System Backlogs' section shows 'Messages in Queues' with entries for 'BPEL Invoke', 'BPEL Callback', and 'Mediator Parallel Routing'. The top right corner shows the user is logged in as 'admin' and the page was refreshed on Jun 17, 2015 at 11:36:01 AM IST.

**System MBean Browser**  
Application Defined MBeans: BPELConfig:bpel

**Information**  
The changes made on this mbean are not managed by the configuration session. The changes will be applied immediately. You cannot undo the changes from the Change Center.

**Show MBean Information**

Attributes	Operations	Notifications	Name	Description	Access	Value
			22 MaximumNumberOfInvokeMessagesInMemoryCache	specify the number of invoke messages that can be kept in the in-memory cache; once the engine hits this limit, it would push the message to dispatcher in-memory cache, instead it would save the message in the db and these saved messages can be recovered using recovery job, you can use value -1 to disable	RW	100000
			23 MaxRecoverAttempt	This value specifies the maximum number of times an invoke or callback or activity will be recovered	RW	2
			24 MinBPELWait	The minimum time duration for BPEL to do a real wait that involves a dehydration	RW	2
			25 objectName	The MBean's unique JMX name	R	oracle.as.soainfra.configuar
			26 OneWayDeliveryPolicy	Changes whether the one-way invocation messages are delivered	RW	async_persist
			27 QualityOfService	flag to enable or disable coherence cache for bpel service engine. use CacheEnabled for enabling coherence.	RW	DirectWrite
			28 QualityOfServiceAuditStorePolicyUsed	flag to enable or disable coherence cache for bpel service engine when auditStorePolicy is set to async	RW	false
			29 QualityOfServiceOneWayDeliveryPolicyUsed	flag to enable or disable coherence cache for bpel service engine when oneWayDeliveryPolicy is set to async	RW	false
			30 ReadOnly	If true, it indicates that this MBean is a read only MBean.	R	false
			31 RecoveryConfig	Recovery Configuration	RW	javax.management.openmbe
			32 RecurringMaxMessageRaiseSize	Number of messages to recover during recurring recovery	RW	50
			33 RestartNeeded	Indicates whether a restart is needed.	R	false
			34 SpecCompliance	Sets how the implementation is compliant to the spec	RW	suggest
			35 StartupMaxMessageRaiseSize	Number of messages to recover during startup recovery	RW	50
			36 StatsLastN	The size of the "most recently processed" request list	RW	-1
			37 SyncMaxWaitTime	The maximum time a request/response operation will take before it times out. The default value is 45 seconds.	RW	45
			38 SystemMBean	If true, it indicates that this MBean is a System MBean.	R	false
			39 ValidateXML	If set to "true" the engine will apply schema validation for incoming and outgoing xml documents. The default value "false".	RW	false
			40 Version	version of the config file	R	11.1.0
			41 Visible	If true, it indicates that this MBean is visible to current user.	R	true

## 1.3 Integrating Oracle FLEXCUBE IS and Scheduler

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

### 1.3.1 Running 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:  
<http://www.quartz-scheduler.org/download/download-catalog.html>
1. Extract the gz file.
2. Open the folder 'Quartz-Latest Qualified Version \docs\dbTables' folder and run 'tables\_oracle.sql' (this is specific to Oracle Database) in the schema.



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

## 1.4 Integrating Oracle FLEXCUBE IS and BIP Reports

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

### 1.4.1 Deploying Application Through Application Server's Admin Console

#### Deployment from Weblogic Administration Console

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

## 1.5 Integrating Oracle FLEXCUBE IS and MBean

In order 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.

### 1.5.1 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.
  - c) Based on the operating system used, open 'startWeblogic.cmd' or 'startWeblogic.sh' from the folder 'bin'.
  - d) 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

)

e) Restart the Weblogic server.
```



Setting up Plug - Ins  
[May] [2017]  
Version 12.4.0.0.0

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