

Setting up Plug-Ins  
Oracle FLEXCUBE Investor Servicing  
Release 14.1.0.0.0  
[May] [2019]



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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.

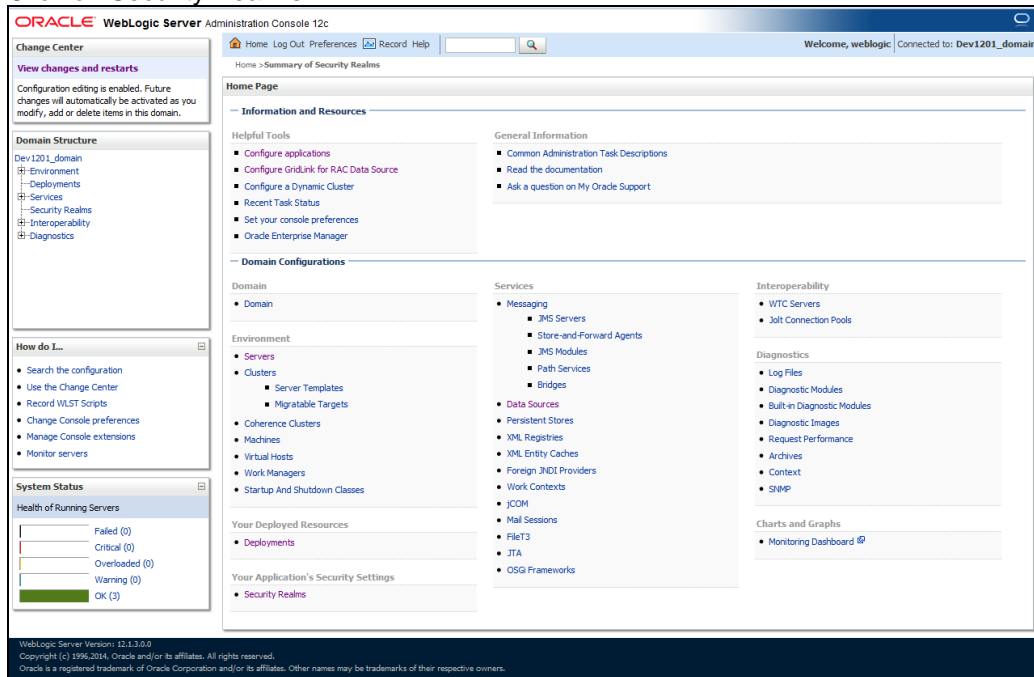
## 1.2 Integrating Oracle FLEXCUBE IS and BPEL

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 'FCBPCLCIS.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 left sidebar contains the 'Domain Structure' tree with 'Security Realms' selected. The main panel displays the 'Summary of Security Realms' page. A table lists the security realms, with 'myrealm' selected. The table has columns for 'Name' and 'Default Realm'.

Name	Default Realm
myrealm	true

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 in the Oracle WebLogic Server Administration Console. The dialog has fields for 'Name' and 'Type'. The 'Name' field is filled with 'FCJCustomProvider' and the 'Type' dropdown is set to 'FCUBSUserAuthenticator'.



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

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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:

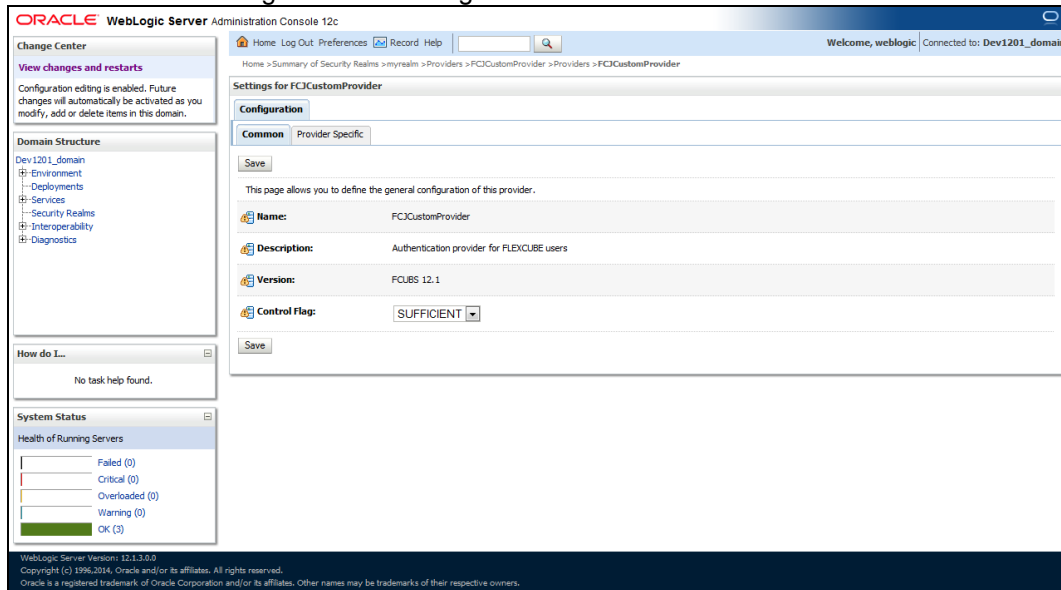
Available:

- FCJCustomProvider
- Trust Service Identity Asse
- DefaultAuthenticator
- DefaultIdentityAsserter

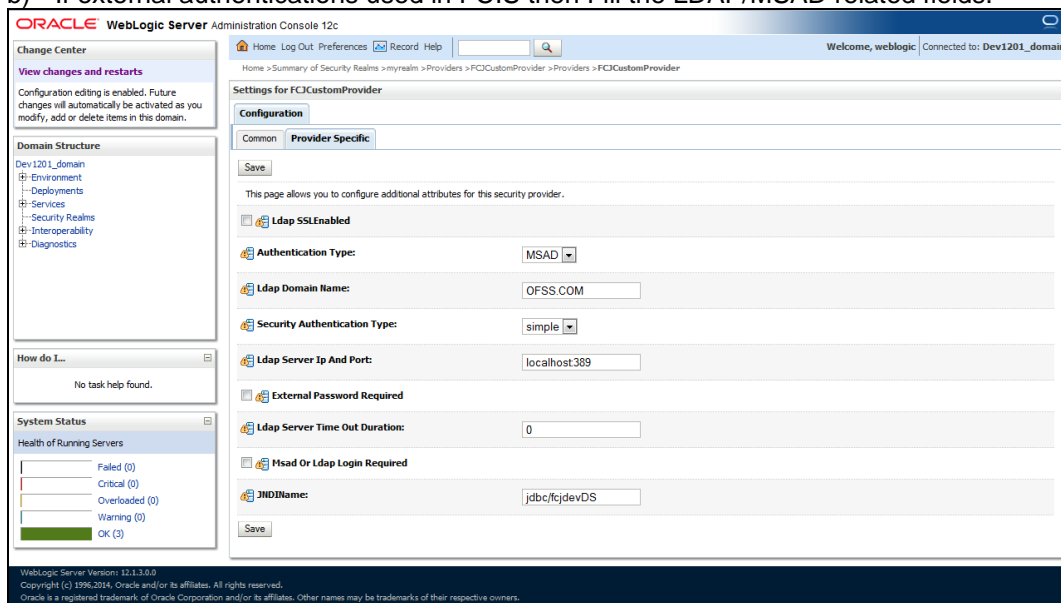
OK Cancel

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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.  
a) 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>
```

- b) 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:

1. Along with the Oracle FLEXCUBE IS EAR file, the Installer creates 'FCBPELCIS.jar' file.
2. Create a folder by name 'classes' at the location  
'`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x`'.
3. 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`'.
4. Navigate to the location  
'`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes\com\ofss\fcc\bpel\cac`'. Edit the properties file 'CISProperties.properties' and update 'JNDI.name' with the JNDI name defined in the properties file 'fcubs.properties'.
5. Copy 'FCBPELCIS.jar' to  
'`<MIDDLEWARE_HOME>/user_projects/domains/<domain_name>/config/fmwconfig/ovd/plugins/lib`. Create the directory structure if it does not exists.
6. Copy the fcubs\_adapter.xml to  
'`<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/`



fcubs\_adapter.xml

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

8. 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>
```

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

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

1. Continue step 1 to step5 from 1.2.2 section.
2. In the following steps replace the <EntityId> tag with the proper Entity name.
3. Copy the fcubs\_adapter\_<EntityId>.xml to  
‘<MIDDLEWARE\_HOME>/oracle\_common/modules/oracle.ovd/templates/



fcubs\_adapter\_EntityId.xml

4. Search for <FCUBSDATASOURCE> in fcubs\_adapter\_<EntityId>.xml and update it with fcubs Datasource with the mapped Datasource for the entity in the property file.

Ex: <param name="DataSource" value="<FCUBSDATASOURCE>"/>

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

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

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

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

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

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

8. Execute “libovdadapterconfig” script which is present in  
‘<MIDDLEWARE\_HOME>/oracle\_common/bin’ with below parameters. Update the admin server host name or ip ,admin server port ,weblogic user id, domain home ,root and fcubs datasource

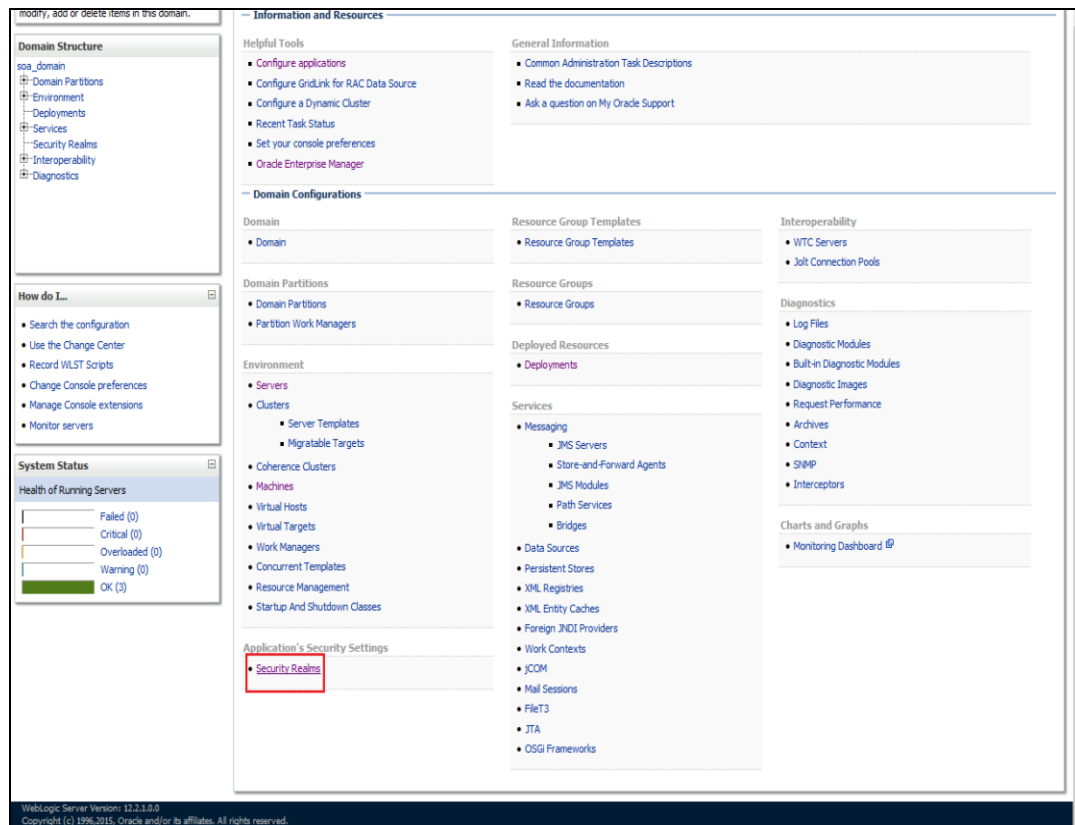
```
libovdadapterconfig.sh -adapterName fcubsAdapter -adapterTemplate fcubs_adapter_<EntityId>.xml
-host <ADMIN_SERVER_HOST> -port <ADMIN_PORT> -userName <WEBLOGIC_USERID> -
domainPath <DOMAIN_HOME> -dataStore DB -root ou=<EntityId>,dc=oracle,dc=com -contextName
default -dataSourceJNDIName <FCUBSDATASOURCE name which we mapped in step4>
```

9. Repeat from step2 to step7 for 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.



### 3. Click on myrealms.

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The left sidebar contains the 'Change Center' with a 'View changes and restarts' link, a 'Domain Structure' tree with 'myrealm' selected under 'Security Realms', and 'System Status' showing 'Health of Running Servers' with 3 OK, 0 Failed, 0 Critical, 0 Overloaded, and 0 Warning. The main content area is titled 'Summary of Security Realms' and includes a table of realms. The table has columns 'Name' and 'Default Realm'. The 'myrealm' entry is highlighted, and its 'Default Realm' is 'true'. The page also includes a 'Customize this table' link and a 'New' button.

ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic | Connected to: soa\_dom

Home > Summary of Servers > Summary of Security Realms > myrealm > Providers > FQUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms

### Summary of Security Realms

A security realm is a container for the mechanisms—including users, groups, security roles, security policies, and security providers—that are used to protect WebLogic resources. You can have multiple active security realms in a WebLogic Server domain, but only one can be set as the default security realm, which is reserved for domain administrative purposes.

This Security Realms page lists each security realm that has been configured in this WebLogic Server domain. Click the name of the realm to explore and configure that realm.

[Customize this table](#)

Realms (Filtered - More Columns Exist)

Name	Default Realm
myrealm	true

Showing 1 to 1 of 1 Previous | Next

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### 4. Click on Providers.

The screenshot shows the 'Settings for myrealm' page in the Oracle WebLogic Server Administration Console 12c. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Settings for myrealm' and includes tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Providers' tab is selected, and the 'Providers-Tab' sub-tab is active. The page contains a 'Save' button, a 'Note' about JACC, and several configuration options: 'Name' (myrealm), 'Security Model Default' (DD Only), 'Combined Role Mapping Enabled' (checked), 'Use Authorization Providers to Protect JMX Access' (checked), and 'Automatically Restart After Non-Dynamic Changes' (unchecked). A 'Retire Timeout' of 60 is specified. The page also includes a 'Save' button and a 'More Info...' link.

ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic | Connected to: soa\_dom

Home > Summary of Servers > Summary of Security Realms > myrealm > Providers > FQUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm

### Settings for myrealm

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

**General** | RDBMS Security Store | User Logout | Performance | Providers-Tab

[Save](#)

Use this page to configure the general behavior of this security realm.

**Note:**  
If you are implementing security using JACC (Java Authorization Contract for Containers as defined in JSR 115), you must use the DD Only security model. Other WebLogic Server models are not available and the security functions for Web applications and EJBs in the Administration Console are disabled.

**Name:** myrealm [More Info...](#)

**Security Model Default:** DD Only [More Info...](#)

☒ **Combined Role Mapping Enabled** [More Info...](#)

☒ **Use Authorization Providers to Protect JMX Access** [More Info...](#)

☐ **Automatically Restart After Non-Dynamic Changes** [More Info...](#)

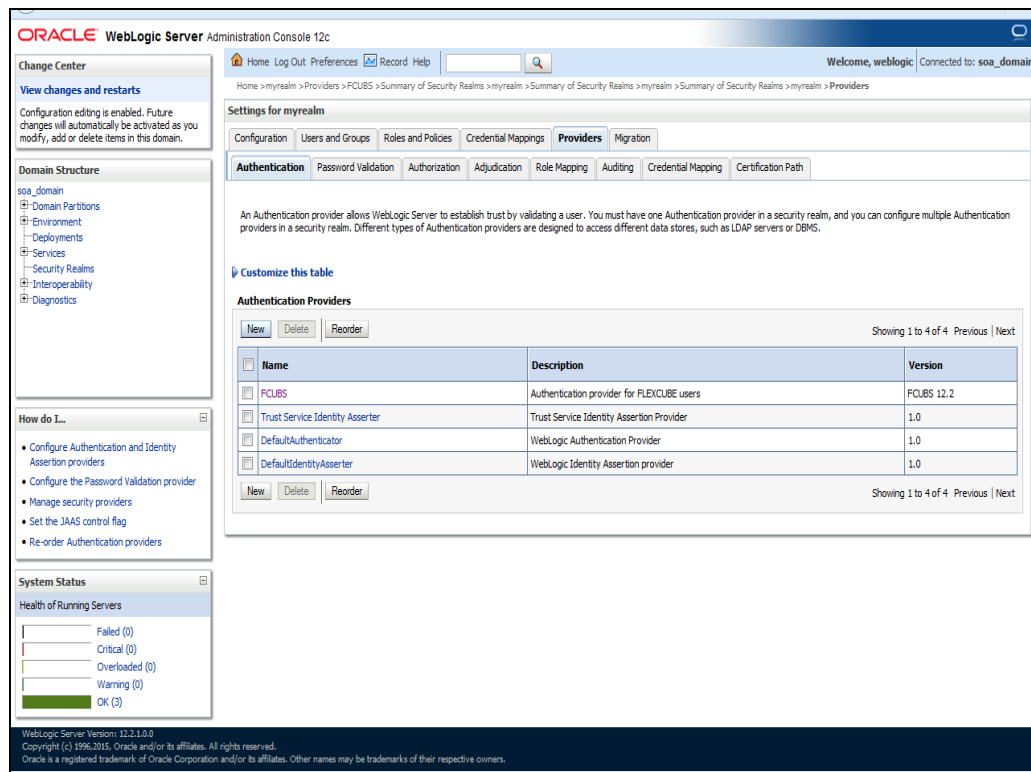
**Retire Timeout:** 60 [More Info...](#)

[Advanced](#)

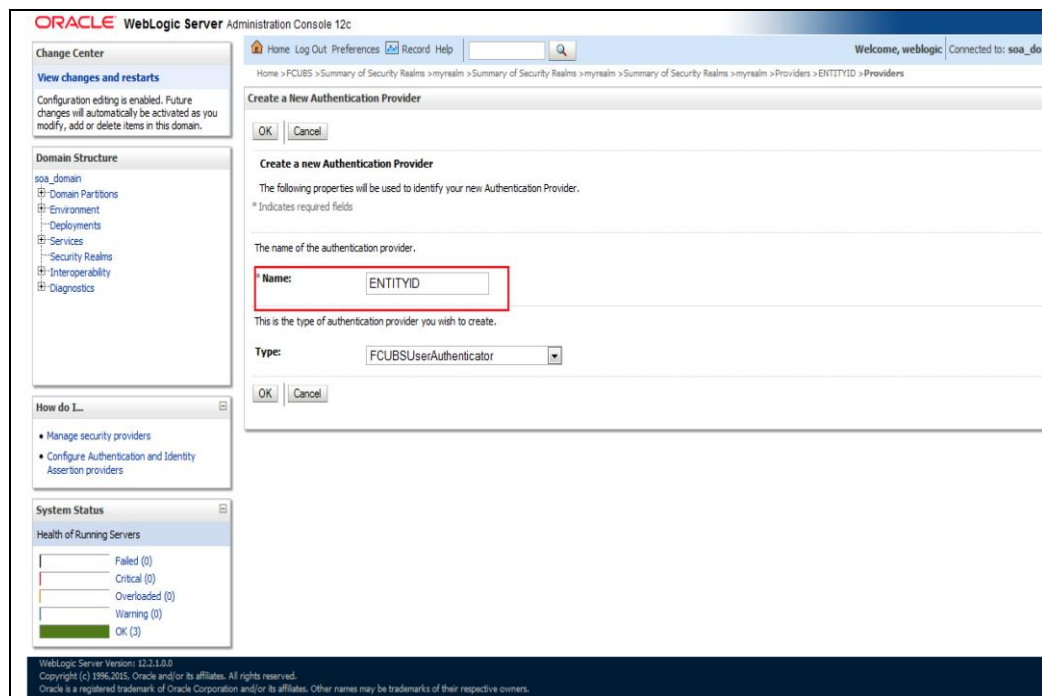
[Save](#)

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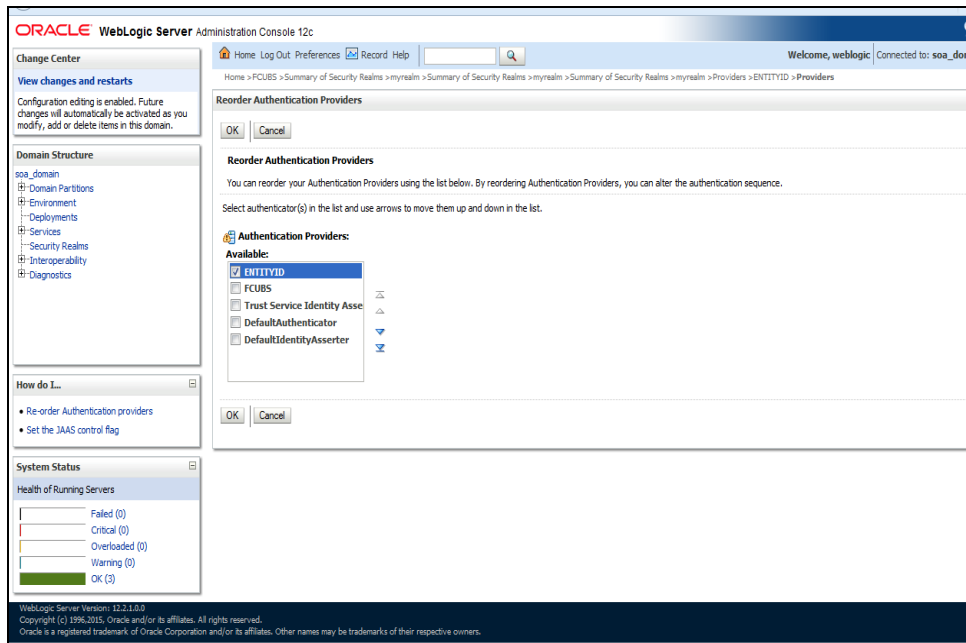
5. Click on New



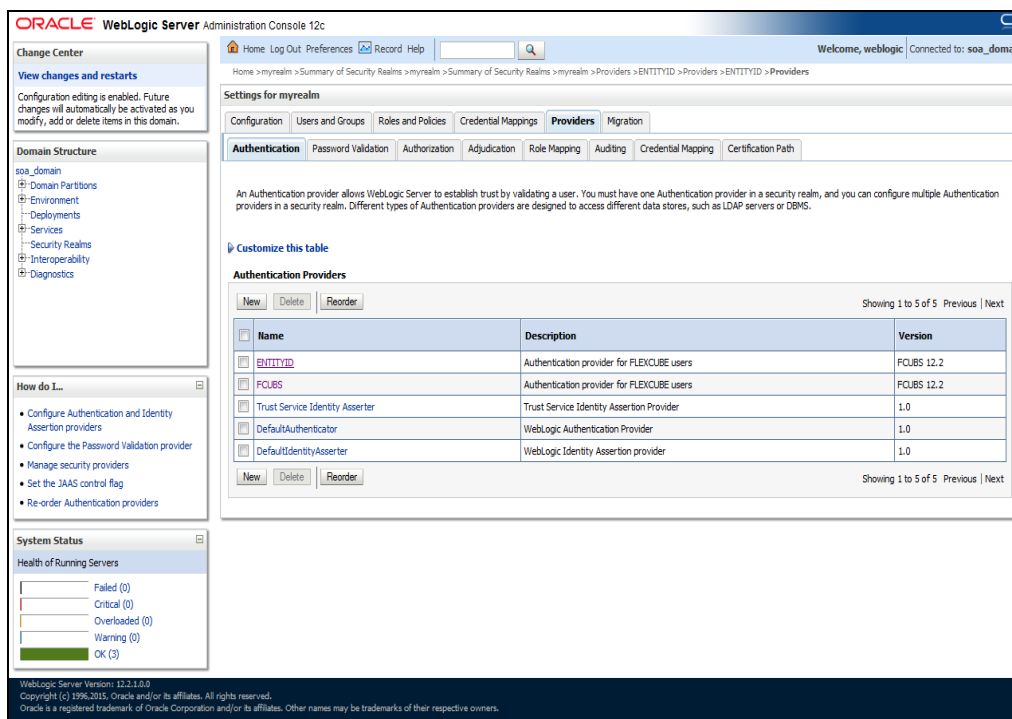
6. Enter the Name with proper Entity Name (entity name we mapped in propertyfile) and select the type as FCUBSUserAuthenticator



- 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. On the left, the 'Domain Structure' tree is visible, showing the hierarchy from 'soa\_domain' down to 'Diagnostics'. The 'System Status' section shows the health of running servers: 0 Failed, 0 Critical, 0 Overloaded, 0 Warning, and 3 OK. The main content area is titled 'Settings for ENTITYID' and has two tabs: 'Common' and 'Provider Specific'. The 'Common' tab is active, showing a 'Configuration' section with a 'Save' button. Below this, a message states: 'This page allows you to define the general configuration of this provider.' The configuration fields are: 'Name' (ENTITYID), 'Description' (Authentication provider for FLEXCUBE users), 'Version' (FCUBS 12.2), and 'Control Flag' (SUFFICIENT). A 'Save' button is at the bottom of the configuration section. The top navigation bar includes links for Home, Log Out, Preferences, Record, and Help. The bottom status bar shows the WebLogic Server Version (12.2.1.0.0) and copyright information.

10. Select the provider Specific tab.

The screenshot shows the same Oracle WebLogic Server Administration Console, but now the 'Provider Specific' tab is active under the 'Settings for ENTITYID' section. The 'Configuration' section has a 'Save' button. A message states: 'This page allows you to configure additional attributes for this security provider.' The configuration fields include: 'Ldap Server Ip And Port' (localhost389), 'JNDIName' (jdbc/fcdevDS), '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 SSLEnabled' (checkbox), 'Mdad Or Ldap Login Required' (checkbox), and 'Authentication Type' (MSAD). A 'Save' button is at the bottom of the configuration section. The left sidebar and top navigation bar remain the same as in the previous screenshot.

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.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa\_domain

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- soa\_domain
  - Domain Partitions
  - Environment
  - Deployments
  - Services
  - Security Realms
  - Interoperability
  - Diagnostics

How do I...?

No task help found.

System Status

Health of Running Servers

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

Settings for ENT1TYID

Configuration

Common Provider Specific

Save

This page allows you to configure additional attributes for this security provider.

Ldap Server Ip And Port: localhost:389

JNDIName: jdbc/ocjdevDS

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSL Enabled

Hsadb Or Ldap Login Required

Authentication Type: MSAD

Save

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa\_domain

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- soa\_domain
  - Domain Partitions
  - Environment
  - Deployments
  - Services
  - Security Realms
  - Interoperability
  - Diagnostics

How do I...?

No task help found.

System Status

Health of Running Servers

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

Settings for ENT1TYID

Configuration

Common Provider Specific

Save

This page allows you to configure additional attributes for this security provider.

Ldap Server Ip And Port: localhost:389

JNDIName: jdbc/ocjdevDS

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSL Enabled

Hsadb Or Ldap Login Required

Authentication Type: MSAD

Save

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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'.

**Oracle WebLogic Server Administration Console 12c**

Home > 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**

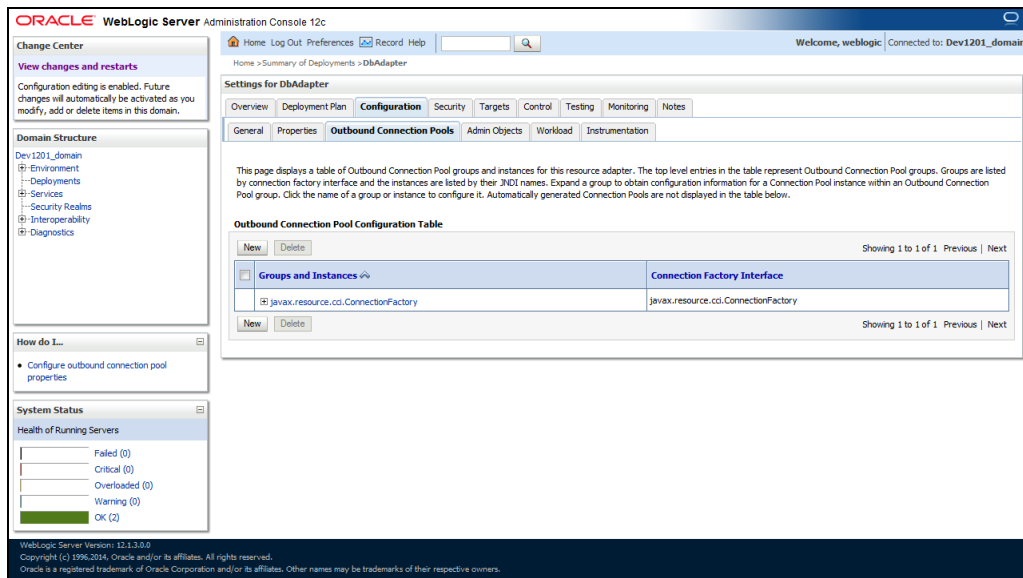
**Deployments**


Install Update Delete Start Stop

Showing 1 to 47 of 47 Previous Next

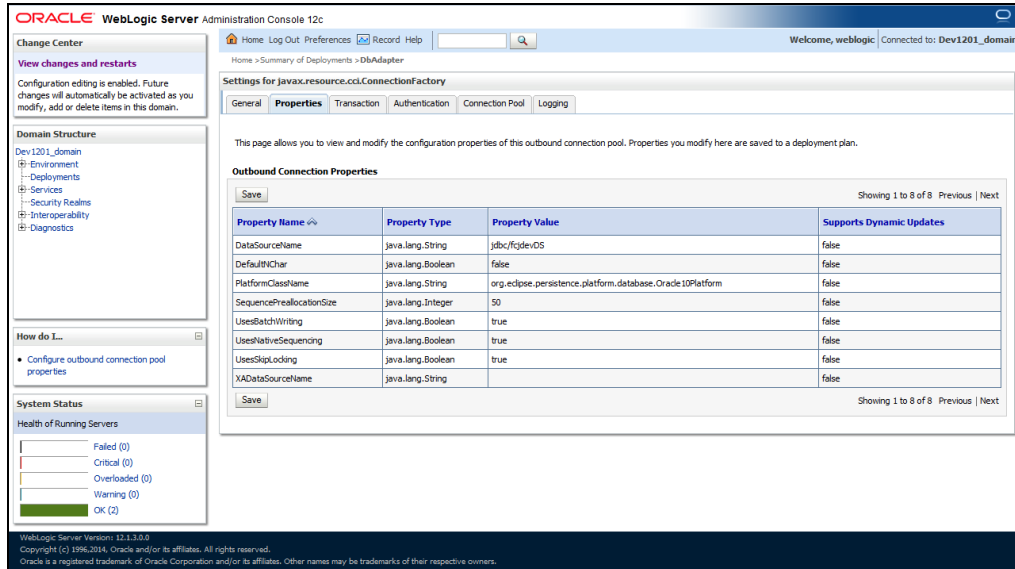
Name	State	Health	Type	Targets	Deployment Order
AgAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bui	Active	OK	Enterprise Application	soa_server1	313
BamComposer	New		Enterprise Application	bam_server1	500
BamCQService	New		Enterprise Application	bam_server1	300
BamServer	New		Enterprise Application	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
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
FCRBSApp (12.1.0.0)	Prepared	OK	Enterprise Application	soa_server1	500

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



3. Click 'Configuration' tab and select 'Outbound Connection Pools' under it.
4. Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
5. Click 'New' and select 'javax.resource.cci.ConnectionFactory' in Outbound Connection Group.
6. Define 'JNDI Name' as 'eis/DB/FCCDEV' and click on 'Finish'.
-  The 'jndi name' should be the same as the one in 'Dbutility sub-process'.
7. Click 'DbAdapter' again. The new JNDI name is listed.

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

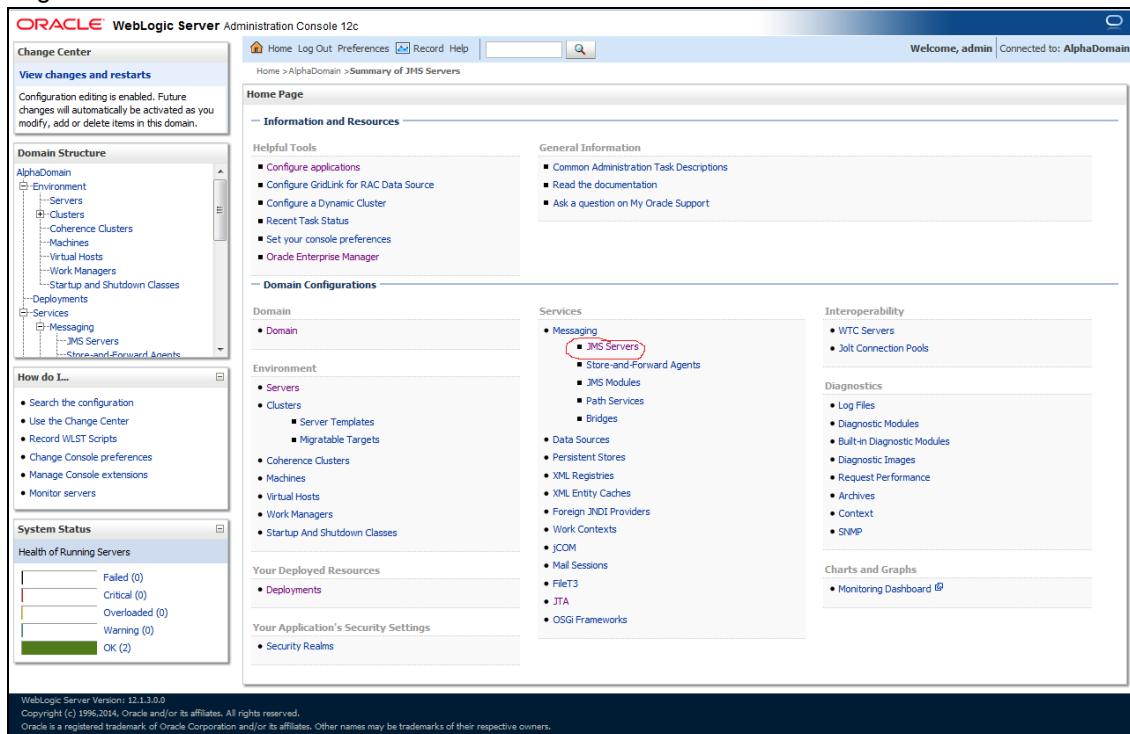


9. Click the 'Property Value' field for the 'DataSourceName' and update the application JNDI reference (given in 'fcubs.properties' file) and then press 'Enter' key.

10. Save and restart the Adminserver.

## 1.2.6 Configuring JMS Adapter

Login in to console → Click on JMS Servers→New



**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
BanAlertEngineJmsServer	BanAlertEngineJmsFileStore	BAMServer	BAMServer	
BanCQServiceJmsServer_BAMServer	BanCQServiceJmsFileStore_BAMServer	BAMServer	BAMServer	
BanReportCacheJmsServer	BanReportCacheJmsFileStore	BAMServer	BAMServer	
BanServerJmsServer_BAMServer	BanServerJmsFileStore_BAMServer	BAMServer	BAMServer	
BPMJmsServer	BPMJmsFileStore	SOAServer	SOAServer	OK
SOAJmsServer	SOAJmsFileStore	SOAServer	SOAServer	OK
UMSJmsServer_auto_1	UMSJmsFileStore_auto_1	BAMServer	BAMServer	
UMSJmsServer_auto_2	UMSJmsFileStore_auto_2	SOAServer	SOAServer	OK

New Delete Showing 1 to 8 of 8 Previous | Next

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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: FCUBSJmsServer

Specify persistent store for the new JMS Server.

Persistent Store: SOAJmsFileStore Create a New Store

Back Next Finish Cancel

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

**Oracle WebLogic Server Administration Console 12c**

Home > AlphaDomain > Summary of JMS Servers

Welcome, admin | Connected to: AlphaDomain

**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

**Domain Structure**

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

**How do I...**

- Configure JMS system modules
- Configure custom persistent stores

**System Status**

Health of Running Servers

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

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---

**Oracle WebLogic Server Administration Console 12c**

Home > AlphaDomain > Summary of JMS Servers

Welcome, admin | Connected to: AlphaDomain

**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

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	SOA Server	SOA Server	✓ OK
FCUBSJMServer	SOAJMSFileStore	SOA Server	SOA Server	✓ OK
SOAJMServer	SOAJMSFileStore	SOA Server	SOA Server	✓ OK
UMSJMServer_auto_1	UMSJMSFileStore_auto_1	BAMServer	BAMServer	
UMSJMServer_auto_2	UMSJMSFileStore_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

The top screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Domain Structure' tree, where 'JMS Servers' is selected. The main content area displays the 'Summary of JMS Modules' page. In the 'Services' section, 'JMS Modules' is highlighted with a red circle. The bottom screenshot shows the 'JMS Modules' table, which lists various JMS system modules. A red circle highlights the 'New' button in the top left corner of the table.

**Summary of JMS Modules**

JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources. This page summarizes the JMS system modules that have been created for this domain.

**Customize this table**

Name	Type
BanAlertEngineJmsSystemModule	System
BanCQServiceJmsSystemResource_BANServer	System
BanReportICacheJmsSystemModule	System
BanServerJmsSystemResource	System
BPMJMSModule	System
SOAJMSModule	System
UMSAQJMSSystemResource	System
UMSJMSSystemResource	System



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

### Create JMS System Module

Back Next Finish Cancel

The following properties will be used to identify your new module.

JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

\* Indicates required fields

What would you like to name your System Module?

**Name:**

What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned.

**Descriptor File Name:**

Where would you like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?

**Location In Domain:**

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 > AlphaDomain > Summary of JMS Servers > Summary of JMS Modules

### Create JMS System Module

Back Next Finish Cancel

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

Use this page to select the server or cluster on which you would like to deploy this JMS system module. You can reconfigure targets later if you wish.

**Targets :**

Servers
<input type="checkbox"/> AdminServer
<input type="checkbox"/> BAHServer
<input checked="" type="checkbox"/> SOAServer

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 > 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

<input type="checkbox"/>	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

**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**

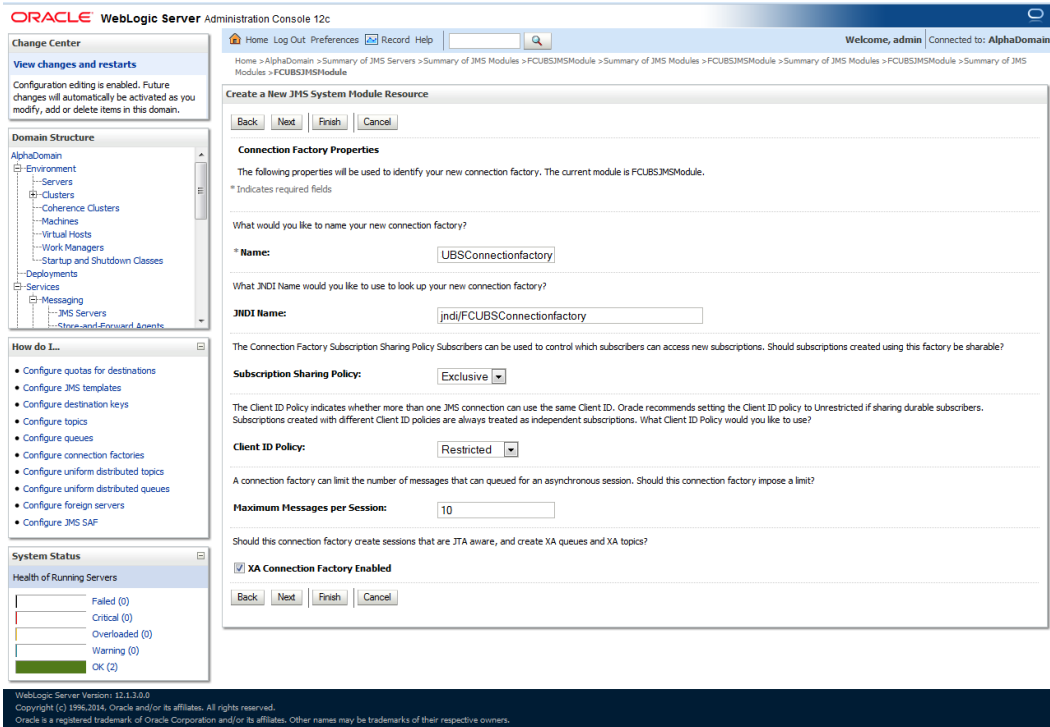
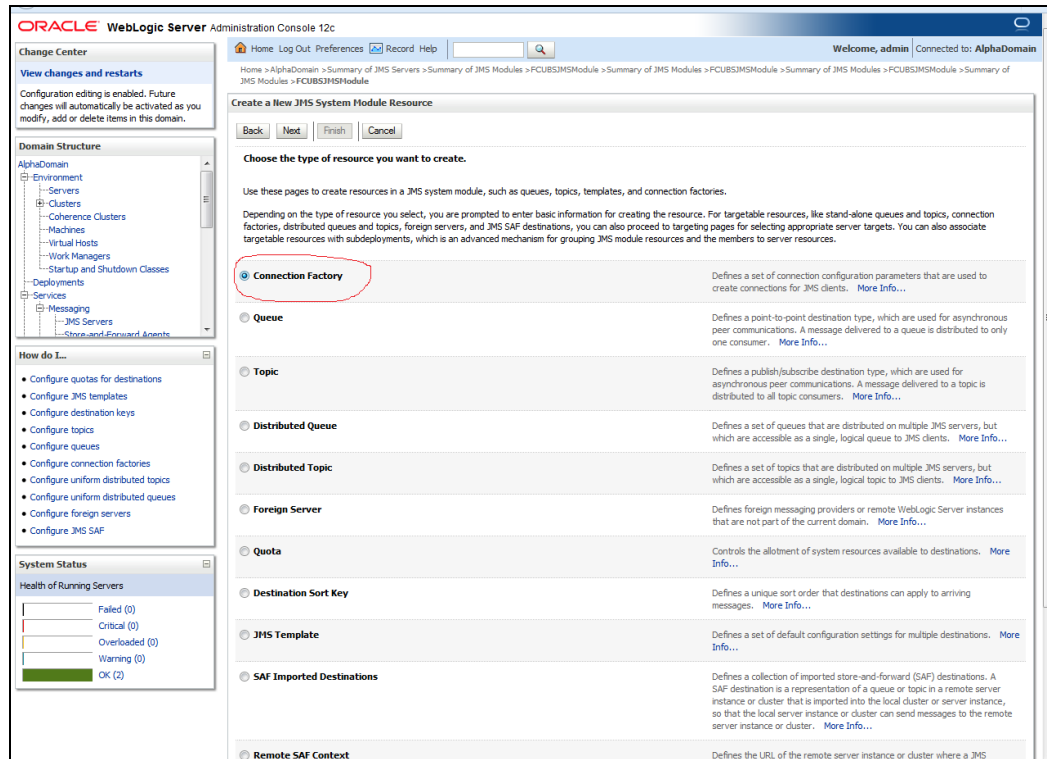
New Delete Showing 0 to 0 of 0 Previous | Next

<input type="checkbox"/>	Name ↕	Type	JNDI Name	Subdeployment	Targets
There are no items to display					

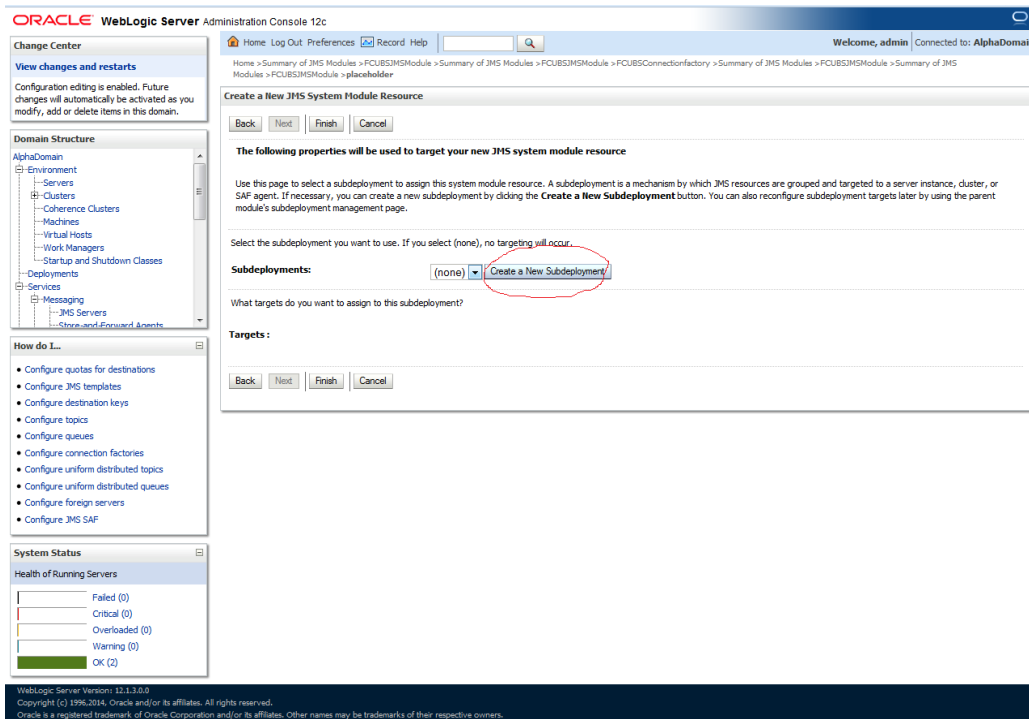
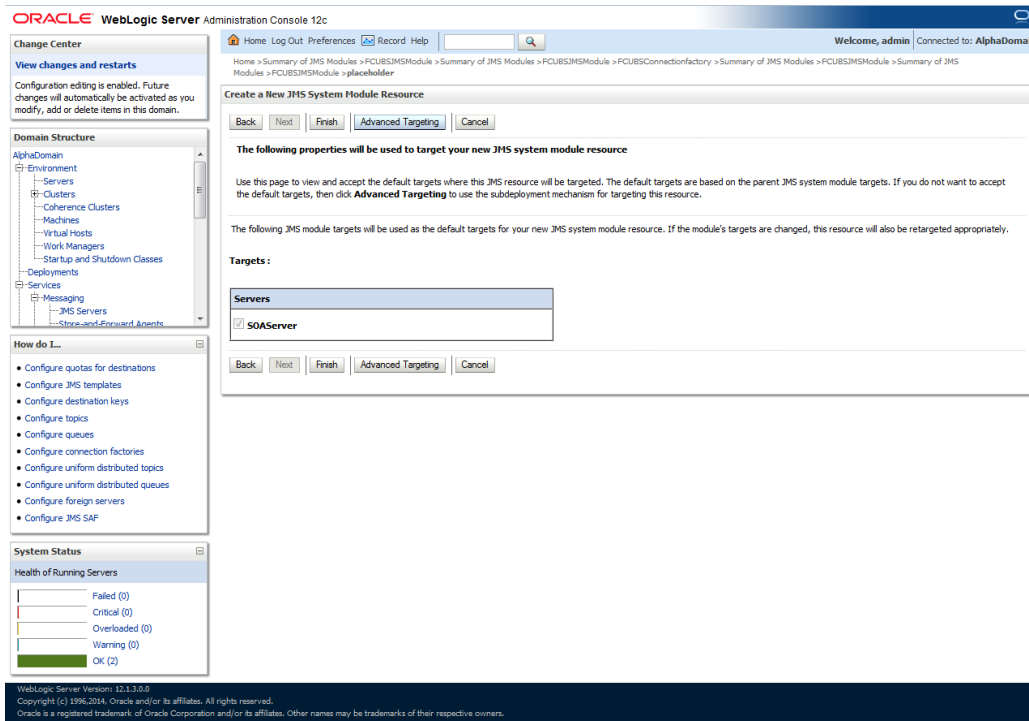
New Delete Showing 0 to 0 of 0 Previous | Next

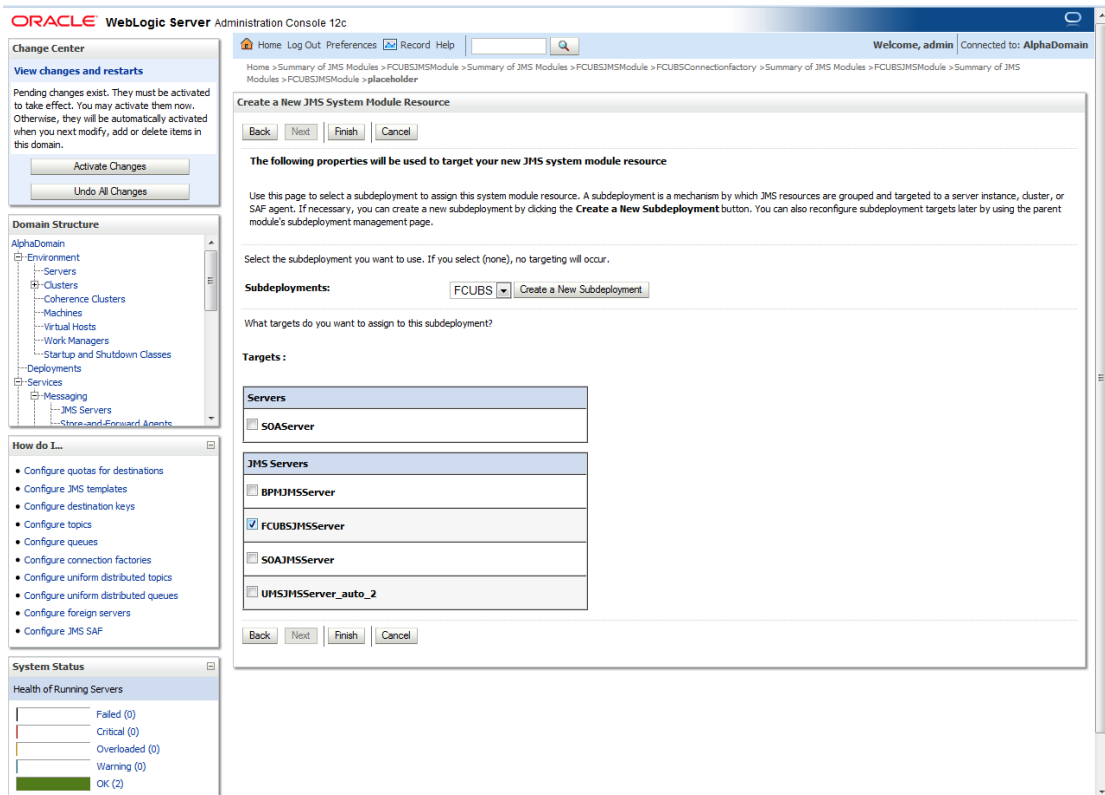
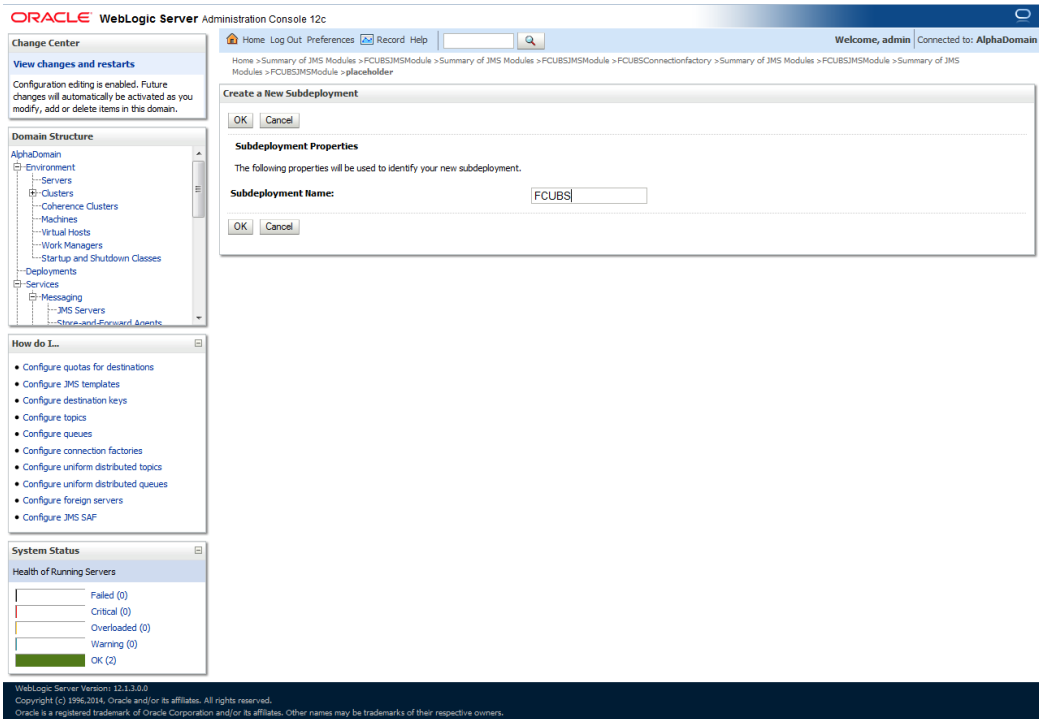
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2. Click on Connection Factory→ next→Create the connection Factory with the below Names→Next



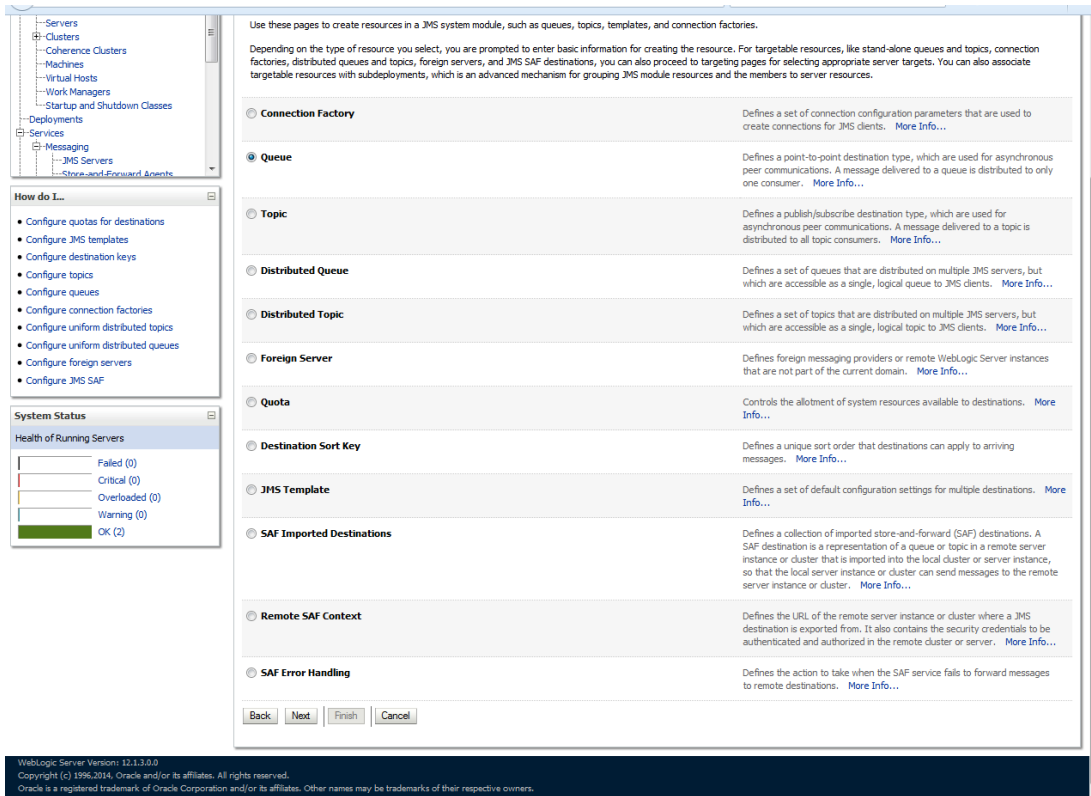
3. Select Advanced targeting→create New Sub Deployment with the below Name→Select the target as JMS server which we have created on top→Finish



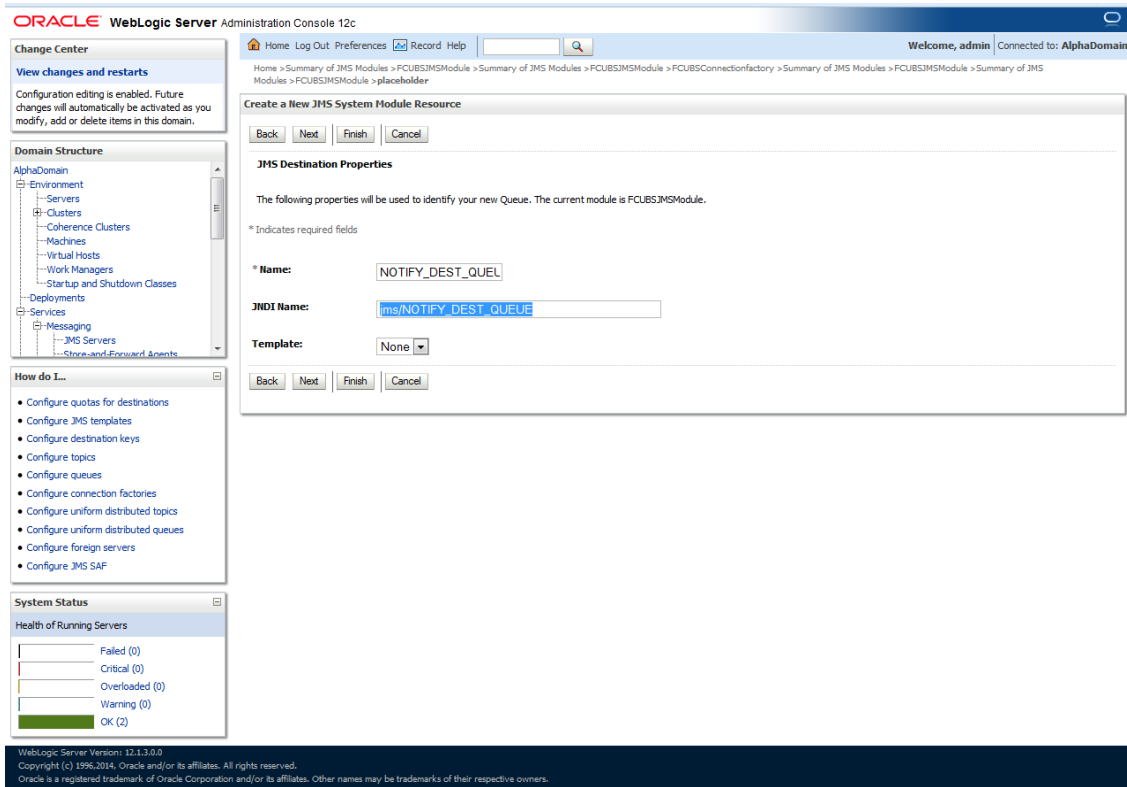




4. Go back to console → Click on JMS Modules → New → check on Queue → next



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





**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

Application Name	Status	Health	Application Type	Environment	Instances
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSAppUIUT (12.1.0.0.0)	Active	Warning	Enterprise Application	SOAServer	600
FileAdapter	Active	OK	Resource Adapter	SOAServer	321
frevvo	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
JmsAdapter	Active	OK	Resource Adapter	SOAServer	323
LdapAdapter JmsAdapter, Level 1, 19 of 46	Installed		Resource Adapter		332
MQSeriesAdapter	Active	OK	Resource Adapter	SOAServer	327
MSMQAdapter	Installed		Resource Adapter		334
OAAAPredictionService	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	SOAServer	360

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 outbound connection pool properties

System Status

Health of Running Servers

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

Home > FCUBSJMModule > 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.

New Delete

Showing 1 to 1 of 1 Previous | Next

Groups and Instances	Connection Factory Interface
oracle.tp.adapter.jms.IJmsConnectionFactory	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/activemq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNLocalTXDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNLocalTXTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNXaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNXaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/florantmq/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/jaasB2BQueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/jaasErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jramat/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/summq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/webespheremq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTXDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTXTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNXaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNXaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Topic	oracle.tp.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

Showing 1 to 1 of 1 Previous | Next

Outbound Connection Group
oracle.tp.adapter.jms.IJmsConnectionFactory

Showing 1 to 1 of 1 Previous | Next

Back
Next
Finish
Cancel

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 outbound connection pool properties

System Status

Health of Running Servers

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

WebLogic Server Version: 12.1.3.0.0

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**ORACLE WebLogic Server Administration Console**

Welcome, admin | Connected to: AlphaDomain

Home > Log Out Preferences > Record Help > [Search]

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

### Create a New Outbound Connection

**JNDI name for Outbound Connection Instance**

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:** eis/Queue/Notif

[Back] [Next] [Finish] [Cancel]

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with a 'View changes and restarts' link, a 'Domain Structure' tree, and a 'System Status' section showing 'Health of Running Servers' with 2 OK servers. The main content area displays the 'Settings for oracle.tip.adapter.jms.DmsConnectionFactory' page. The 'Properties' tab is selected, showing a table of 'Outbound Connection Properties'. The 'ConnectionFactoryLocation' property is highlighted with the value 'jndi/FCUBSConnectionFactory'. The 'Save' button is visible at the bottom of the table.

Property Name	Property Type	Property Value	Supports Dynamic Updates
AcknowledgeMode	java.lang.String	AUTO_ACKNOWLEDGE	false
ConnectionFactoryLocation	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

The screenshot shows the Oracle WebLogic Server Administration Console after a successful update. The left sidebar is the same as the previous screenshot. The main content area displays the 'Settings for oracle.tip.adapter.jms.DmsConnectionFactory' page. The 'Properties' tab is selected, showing the same table of 'Outbound Connection Properties'. The 'ConnectionFactoryLocation' property is now 'jndi/FCUBSConnectionFactory'. Below the table, there are three green checkmarks indicating successful updates: 'All changes have been activated. No restarts are necessary.', 'Deployment plan has been successfully updated.', and 'Remember to update your deployment to reflect the new plan when you are finished with your changes.' The 'Save' button is visible at the bottom of the table.

Property Name	Property Type	Property Value	Supports Dynamic Updates
AcknowledgeMode	java.lang.String	AUTO_ACKNOWLEDGE	false
ConnectionFactoryLocation	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

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

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
b2bui	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
FCUBSAppUIT (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
GWWWebServices (12.1.0.0.0)	Active	OK	Enterprise Application	SOAServer	600
JDEWorldAdapter	Installed		Resource Adapter		333

e Highlight All Match Case

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...

- Start and stop a deployed enterprise application
- Configure an enterprise application
- Create a deployment plan
- Target an enterprise application to a server
- Test the modules in an enterprise application

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

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/connectors/Plan1.xml Change Path

Redeploy this application using the following deployment files:

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

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

Back Next Finish Cancel

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, admin Connected to: AlphaDomain

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

**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...?**  

- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application
- Start and stop a deployed enterprise application
- Monitor the modules of an enterprise application
- Deploy EJB modules
- Install a Web application

**System Status**  
Health of Running Servers  

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

**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

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
b2bui	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

Showing 1 to 46 of 46 Previous Next

Highlight All Match Case

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 12c. The left sidebar contains the 'Change Center' with 'View changes and restarts', 'Domain Structure' (AlphaDomain, Environment, Deployments, Services, Security Realms, Interoperability, Diagnostics), 'How do I...', and 'System Status' (Health of Running Servers: Failed (0), Critical (0), Overloaded (0), Warning (0), OK (2)). The main content area is titled 'Settings for FtpAdapter' and includes tabs for Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. The 'Configuration' tab is active, showing 'Outbound Connection Pools'. A table titled 'Outbound Connection Pool Configuration Table' lists groups and instances. The table has two columns: 'Groups and Instances' and 'Connection Factory Interface'. The table shows 10 entries, all with the 'Connection Factory Interface' set to 'javax.resource.cdi.ConnectionFactory'. The table is paginated, showing 1 to 1 of 1.

Groups and Instances	Connection Factory Interface
javax.resource.cdi.ConnectionFactory	javax.resource.cdi.ConnectionFactory
eis/Ftp/CoherenceHAFtpAdapter	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/FtpAdapter	javax.resource.cdi.ConnectionFactory
eis/Ftp/HAFtpAdapter	javax.resource.cdi.ConnectionFactory
eis/Ftp/HAFtpAdapterDB2	javax.resource.cdi.ConnectionFactory
eis/Ftp/HAFtpAdapterHSQL	javax.resource.cdi.ConnectionFactory
eis/Ftp/LocalTransactionFtpAdapter	javax.resource.cdi.ConnectionFactory

The screenshot shows the 'Create a New Outbound Connection' wizard in the Oracle WebLogic Server Administration Console 12c. The left sidebar is the same as the previous screenshot. The main content area is titled 'Create a New Outbound Connection' and includes buttons for Back, Next, Finish, and Cancel. The 'JNDI name for Outbound Connection Instance' section is active, showing a text input field for the JNDI Name. The text input field contains 'eis/Ftp/FtpAdapterLcl'. The wizard is paginated, showing 1 to 1 of 1.

**JNDI name for Outbound Connection Instance**

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.

**Oracle WebLogic Server® Administration Console**

Home > Summary of Security Realms > myrealm > Users and Groups

Welcome, weblogic | Connected to: bifoundation\_domain

**Settings for myrealm**

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

**Users** Groups

This page displays information about each user that has been configured in this security realm.

Some results are not displayed because there are too many matches. Please customize this table to specify more specific criteria.

Customize this table

**Users**

New Delete Showing 1 to 10 of 1000 Previous Next

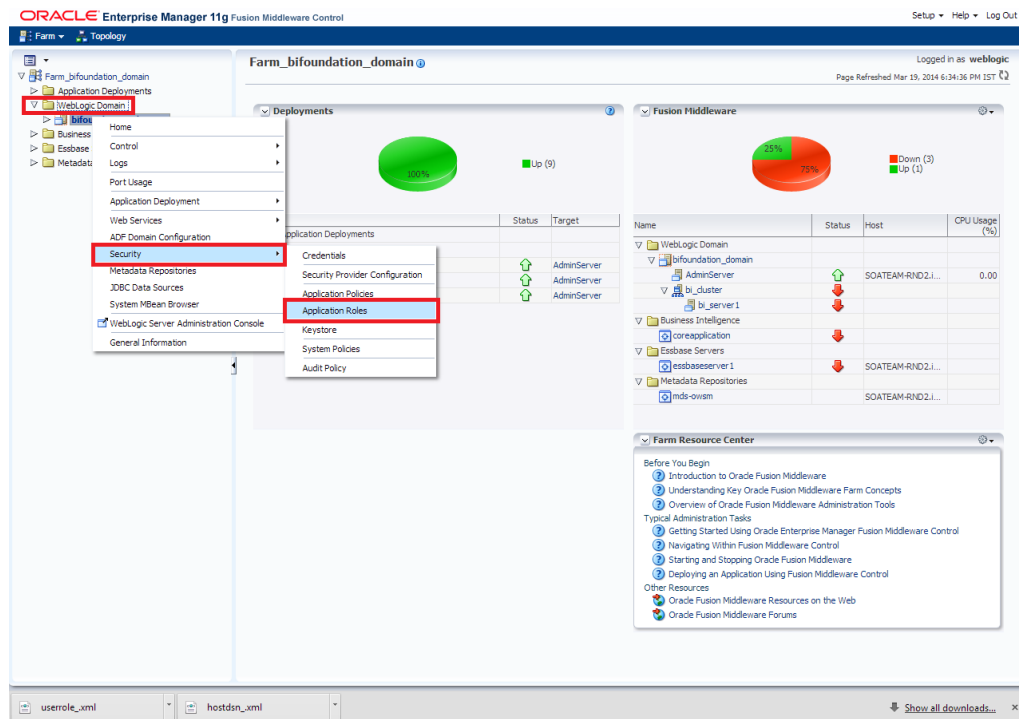
Name	Description	Provider
000ANT1	Default Admin User 1	FCJCustomProvider
11111RM_3	Swieta	FCJCustomProvider
11111RM_4	RM	FCJCustomProvider
112233	Default Admin User 10	FCJCustomProvider
121212	Default Admin User 10	FCJCustomProvider
123456	SANKER GS	FCJCustomProvider
141414	Default Admin User 10	FCJCustomProvider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

New Delete Showing 1 to 10 of 1000 Previous Next

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.

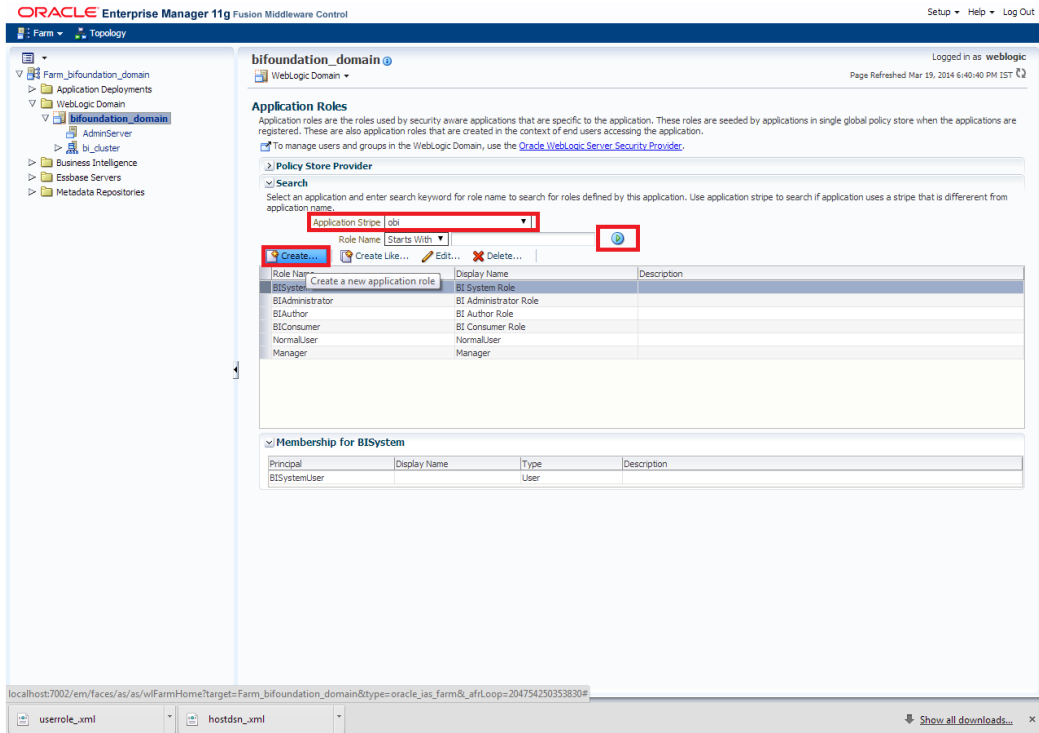
- 3) Login to the Enterprise Manager (em) `http/s:<hostname>:<port>/em`
  - Right click on the domain(in which BI suite is installed) under the weblogic domain

- Go to security and then navigate to application roles



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

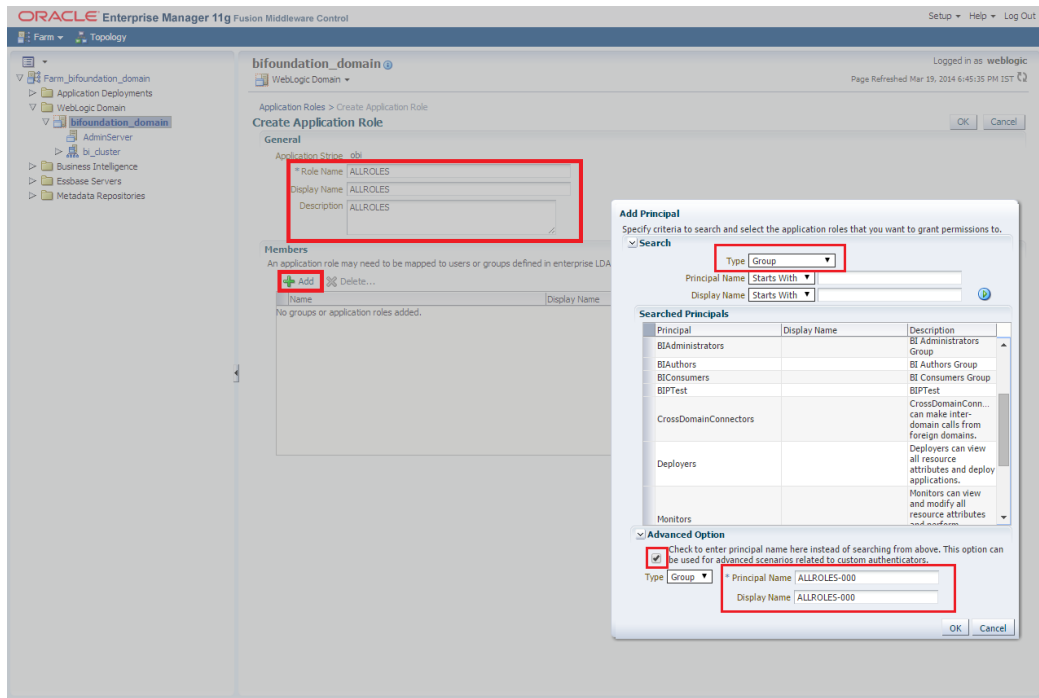
- Select application stripe as obi
- Click on the search button
- Click on create button to add a role



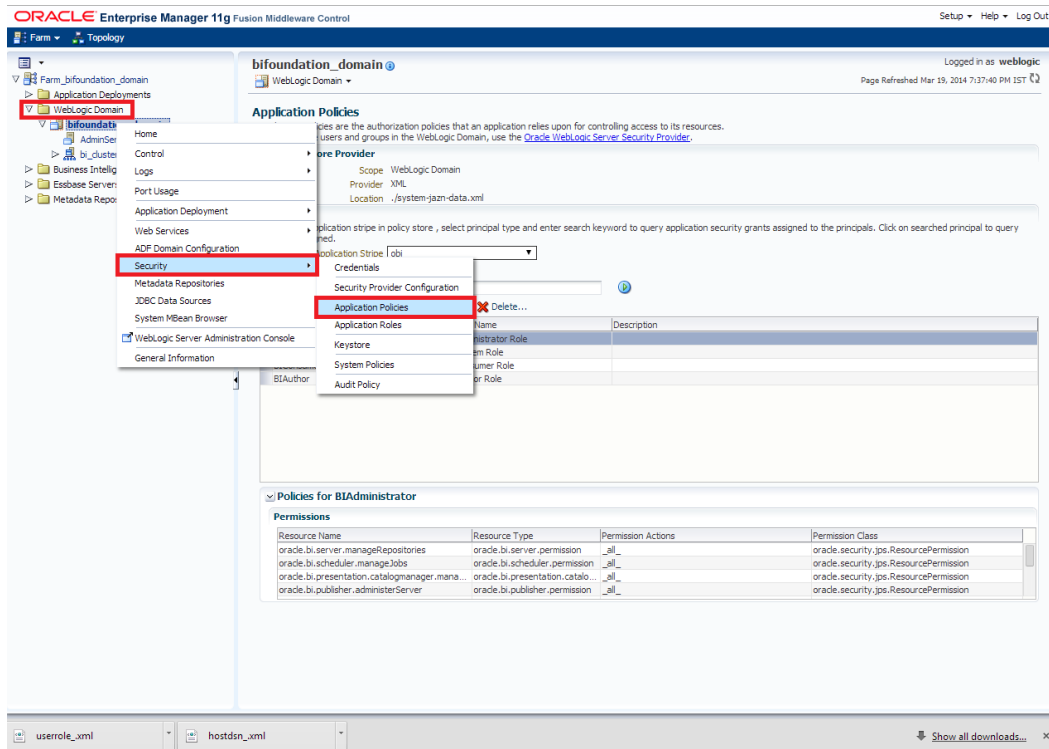
5) After navigating to next screen as in below screenshot,

- 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.



- 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 BIConsumer(it should be highlighted) from the list and click on the create like button.

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

Setup Help Log Out

Farm Topology

bifoundation\_domain

WebLogic Domain

Logged in as weblogic

Page Refreshed Mar 15, 2014 7:37:40 PM IST

### Application Policies

Application policies are the authorization policies that an application relies upon for controlling access to its resources.  
[Click here to manage users and groups in the WebLogic Domain, use the Oracle WebLogic Server Security Provider.](#)

**Policy Store Provider**

Scope: WebLogic Domain  
 Provider: XML  
 Location: /system-j2ee-data.xml

**Search**

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 the principal.

Application Stripe: **obi**  
 Principal Type: **Application Role**

Name Starts With

**Create...** **Create Like...** Edit... Delete...

Name	Display Name	Description
BIAdmin	BI Administrator Role	
BIConsumer	BI Consumer Role	
BIAdmin	BI Admin Role	
BIReportViewer	FCUBS Consumer Role	

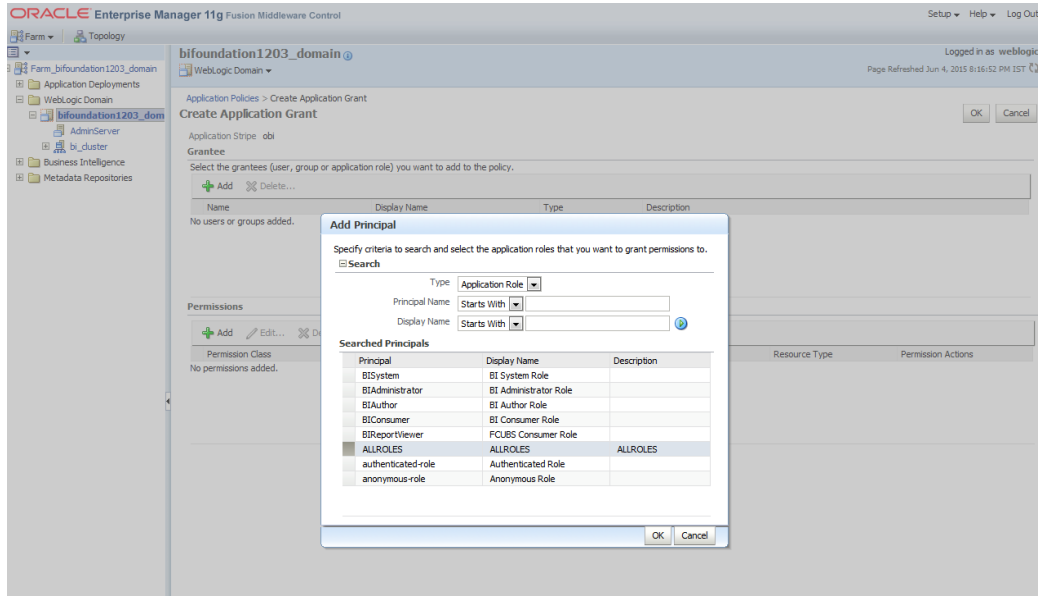
**Policies for BIConsumer**

Permissions

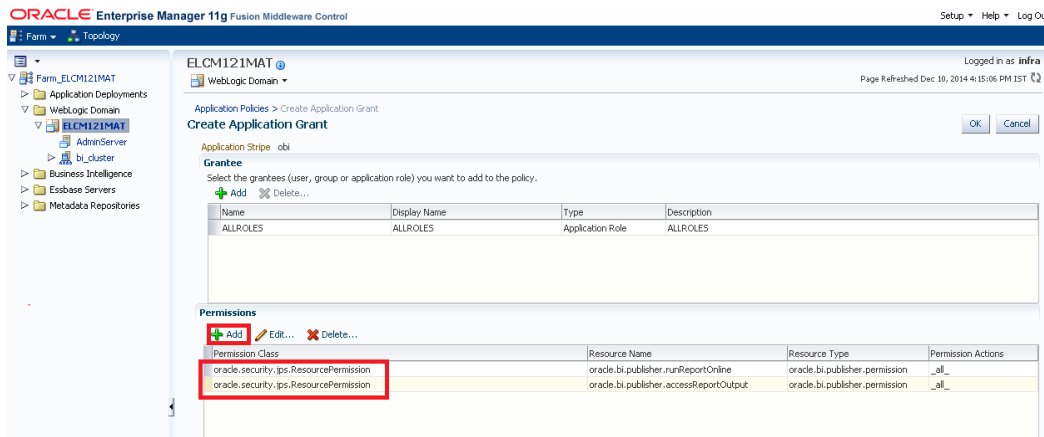
Resource Name	Resource Type	Permission Actions	Permission Class
Explore	rdc_dc_persp	dc_perspective	oracle.security.jps.resource.commission
MyDashboard	rdc_dc_persp	dc_perspective	oracle.security.jps.resource.commission
all	rdc_batch	batch admin	oracle.security.jps.resource.permission
all	rdc_js	choice_editor	oracle.security.jps.resource.permission

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

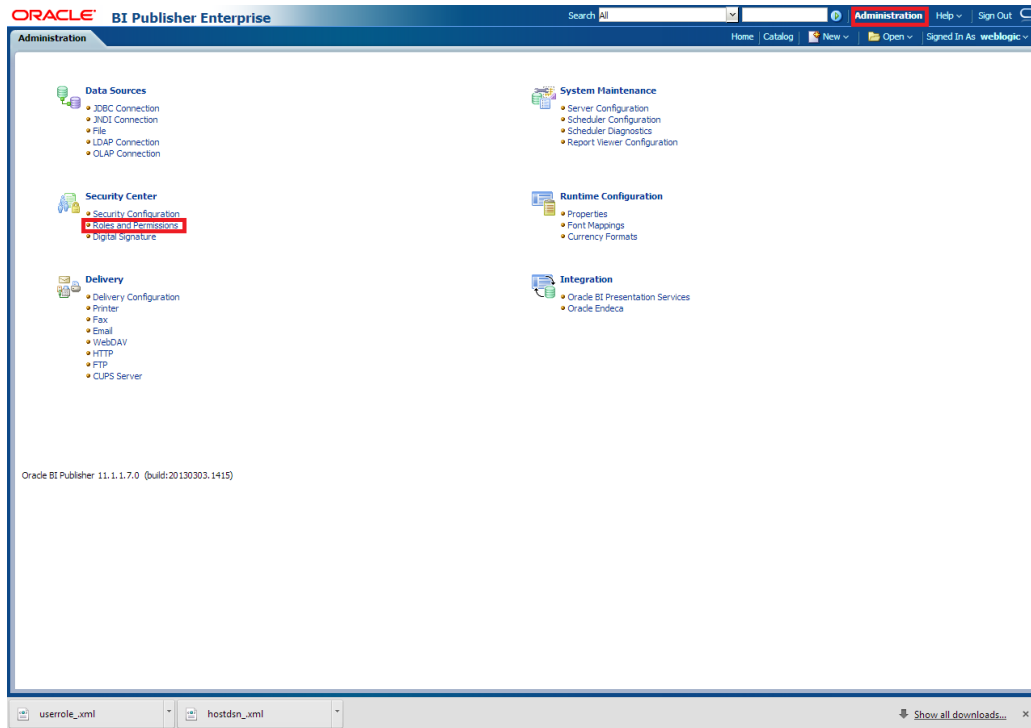
- Click on Add button , a new window “Add Principal” will be launched.
- Select Type as “Application Role” and click on the search button
- From the list select the role that has been created earlier in application role screen and click on OK button in pop up window and screen.



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

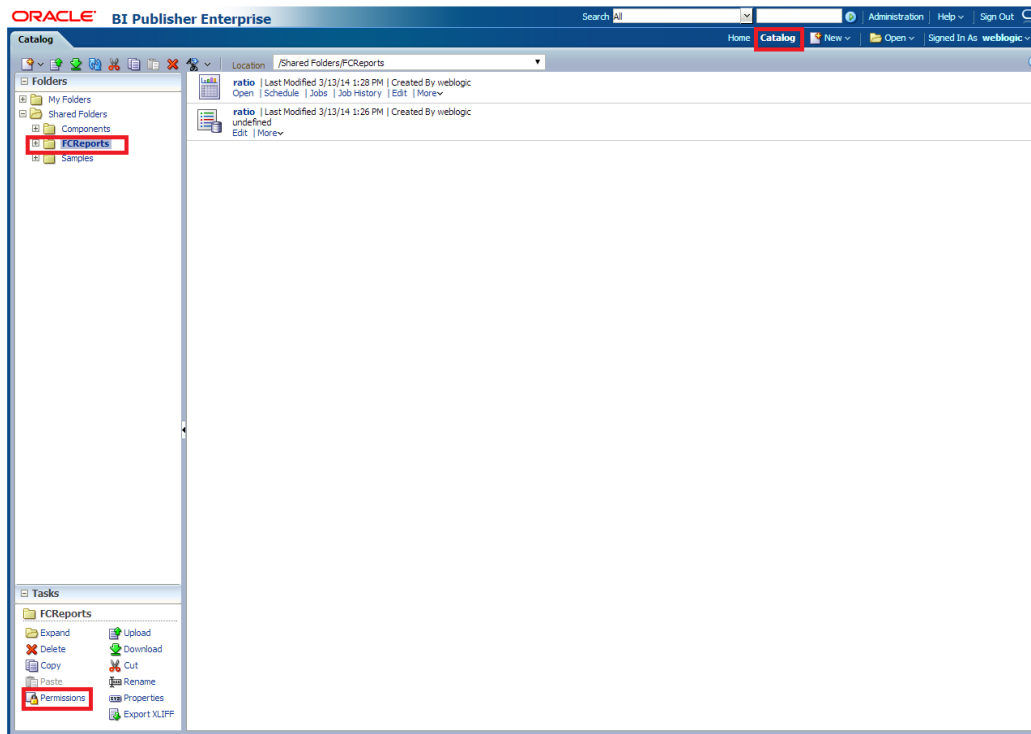


- 9) After getting information message like “A security added successfully”,
- Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpserver`
  - Click on the Administration .
  - Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart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

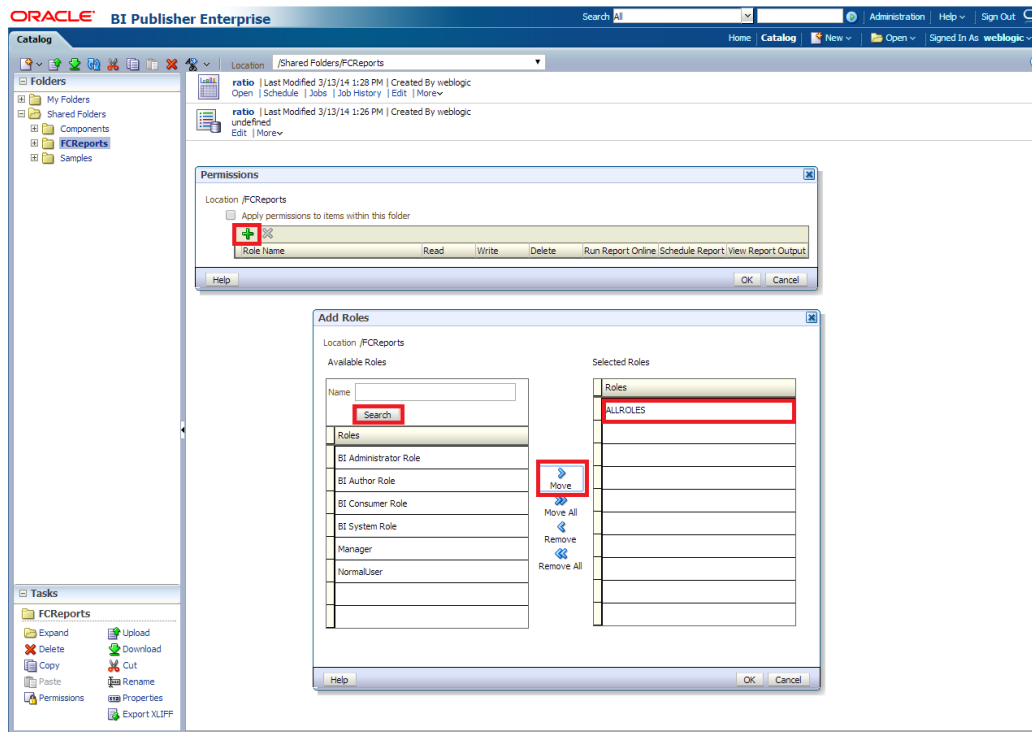




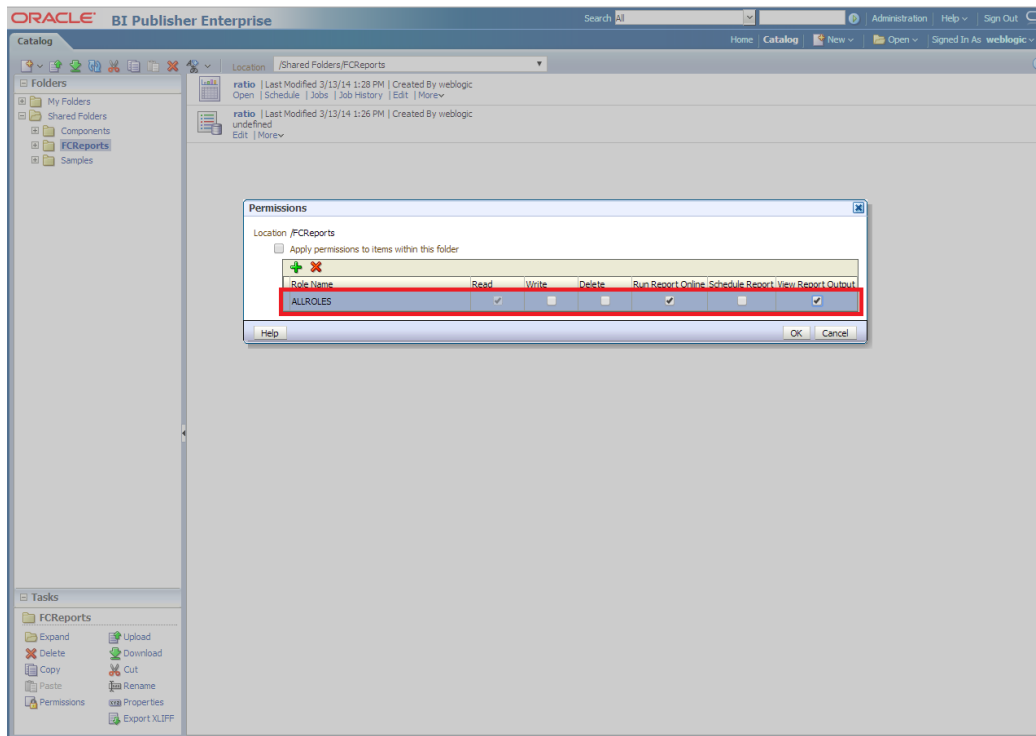
10) Then click on the Catalog , then on the folder that has been created , and then on permissions



- 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.



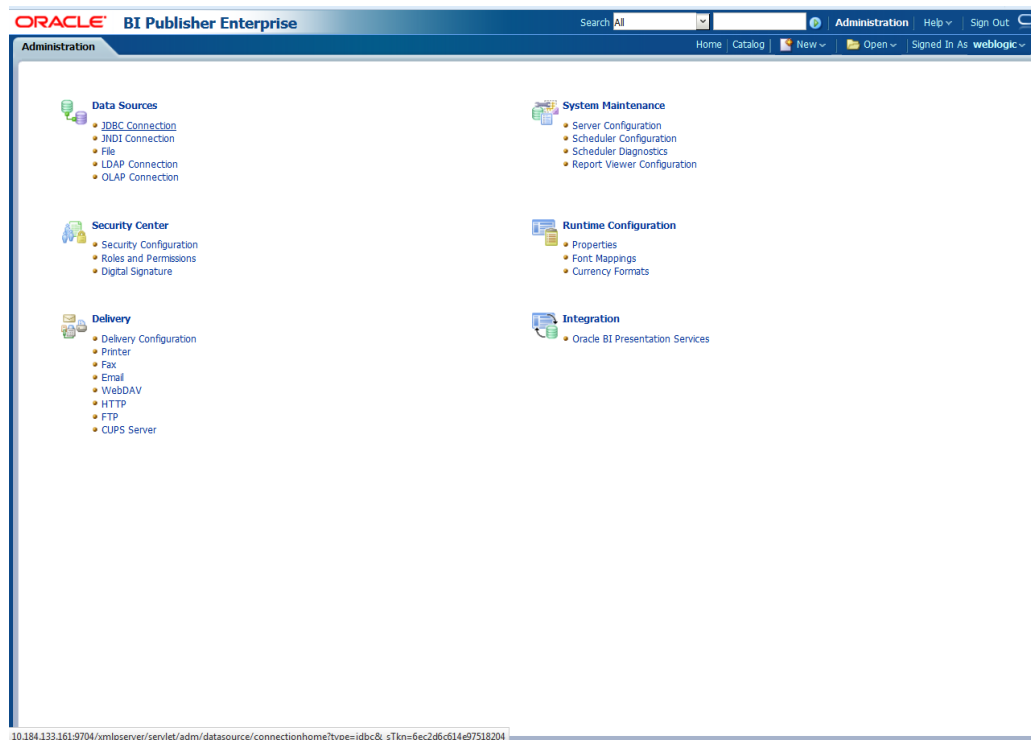
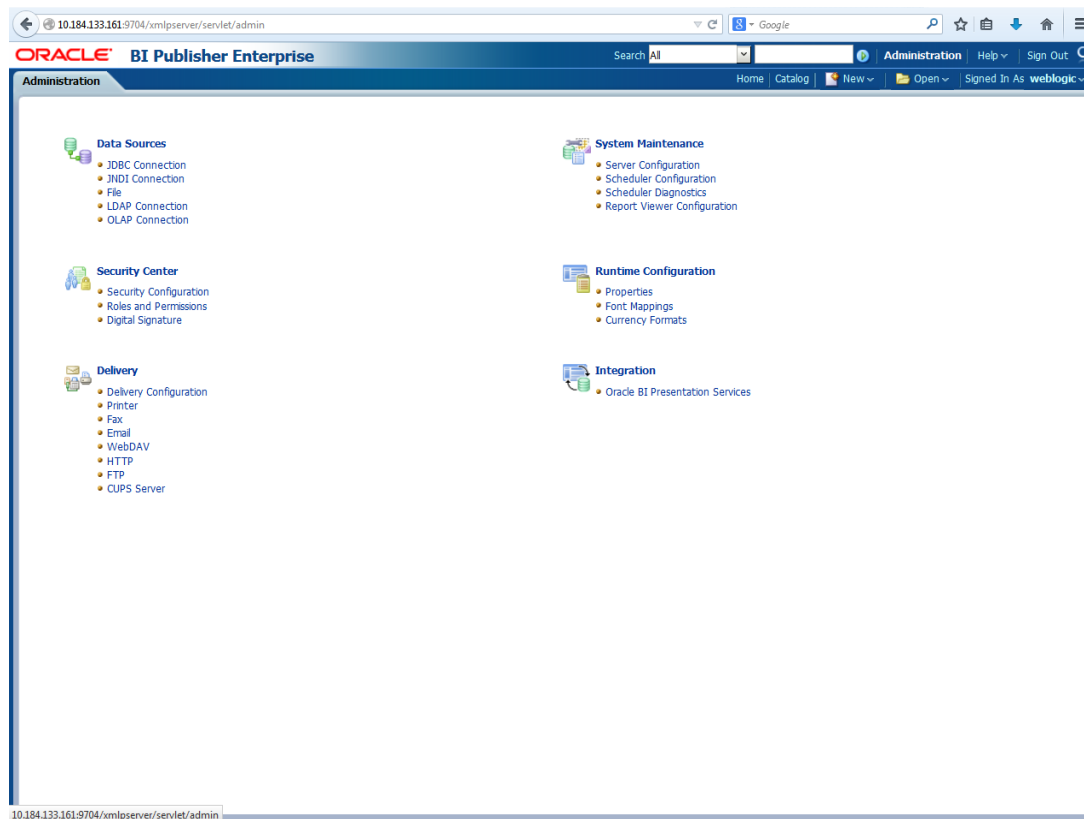
Now the reports in the folder will be accessed accordingly based on the roles.

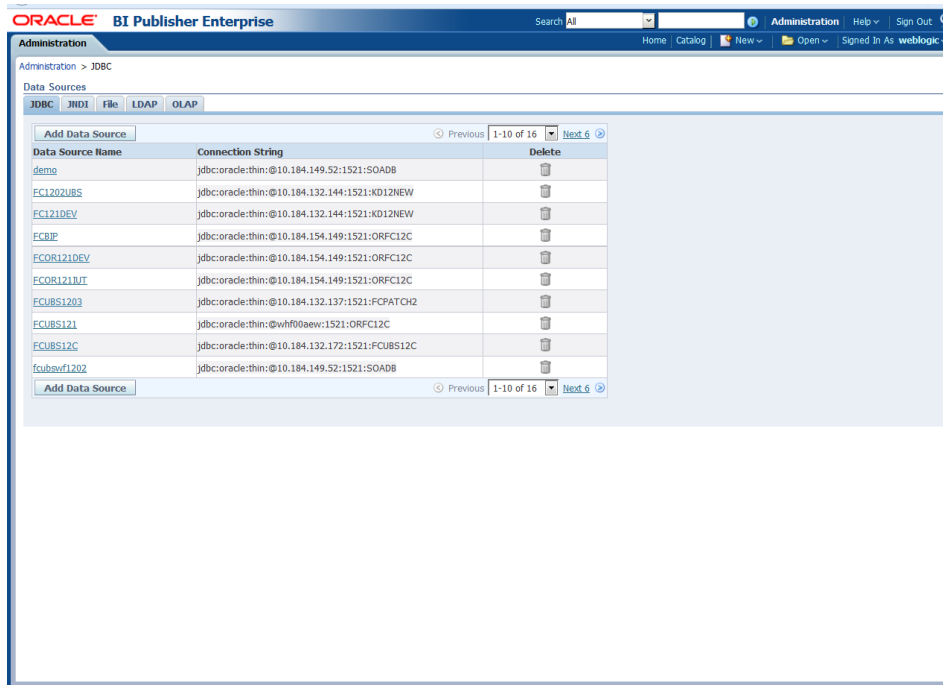
Note:

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.

The screenshot shows the 'Add Data Source' dialog box in the Oracle BI Publisher Enterprise Administration console. The 'General' tab is active. The 'Data Source Name' is 'FCSOA', 'Driver Type' is 'Oracle 11g', 'Database Driver Class' is 'oracle.jdbc.OracleDriver', and 'Connection String' is 'jdbc:oracle:thin:@//ofss222783.in.oracle.com:1521/FCU\$DEV121'. The 'Use System User' checkbox is unchecked, and the 'Username' is 'DEV12C\_SOAINFRA'. The 'Password' field is masked with '\*\*\*\*'. The 'Pre Process Function' and 'Post Process Function' fields are empty. The 'Use Proxy Authentication' checkbox is unchecked. The 'Test Connection' button is visible. The 'Backup Data Source' section is expanded, showing a 'Use Backup Data Source' checkbox and fields for 'Connection String', 'Username', and 'Password'.

16. Add the FCIS roles to allowed Roles under security

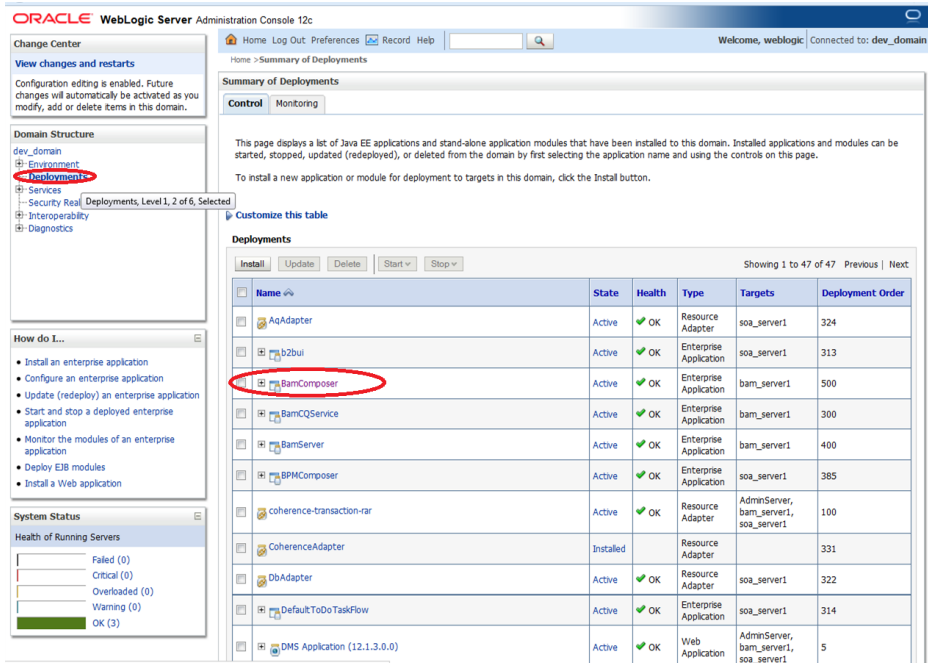
The screenshot displays the Oracle BI Publisher Enterprise Administration web interface. The top navigation bar includes the Oracle logo, the product name 'BI Publisher Enterprise', a search bar, and links for 'Administration', 'Help', and 'Sign Out'. The main content area is divided into three sections: 'Administration', 'Backup Data Source', and 'Security'. The 'Security' section is currently active, showing a checkbox for 'Allow Guest Access' and two lists of roles. The 'Available Roles' list contains: BI Administrator Role, BI Author Role, BI Consumer Role, BI System Role, and FCUBS Consumer Role. The 'Allowed Roles' list contains: ALLROLES. Between the two lists are buttons for 'Move', 'Move All', 'Remove', and 'Remove All'. The 'Test Connection' button is visible at the bottom of the 'Allowed Roles' list.

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

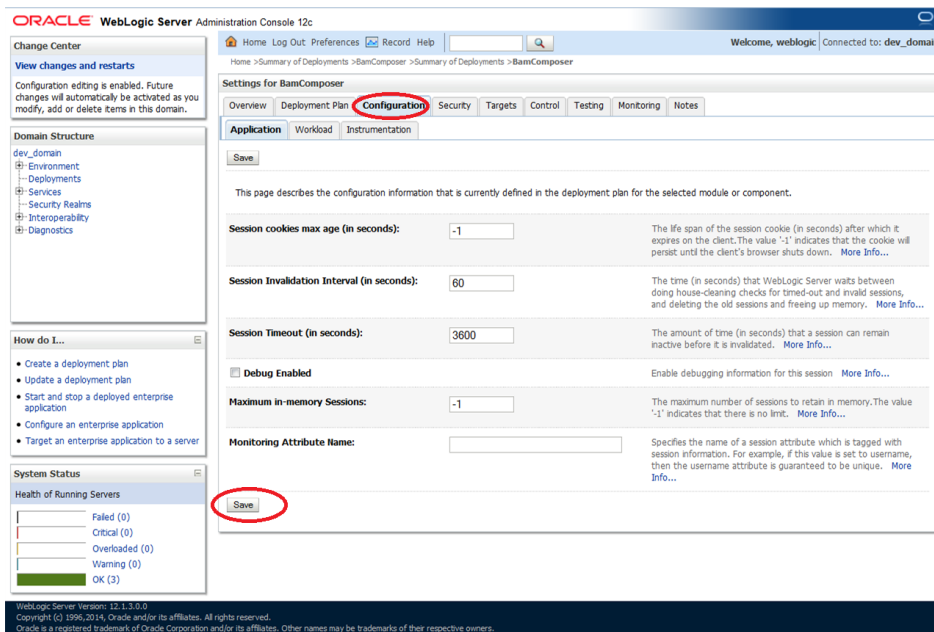
18. Please follow the steps 15 to 17 to create data source for FCIS Schema and give the name as FCBIPBPEL

## 1.2.9 BAM Report Configuration settings

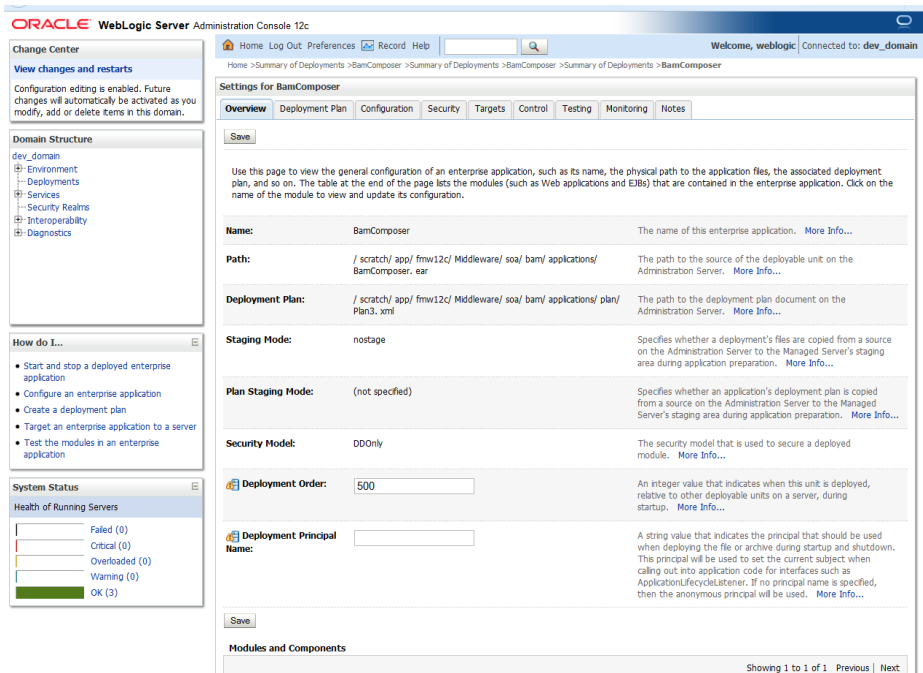
1. Generate a deployment plan for BAM Composer Application.
2. Login in to console <http://hostname:port/console>
3. Click on Deployments → click on BAM Composer



4. Click on Configuration Configuration → Save



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.

**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
h2bui	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
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
PinAdapter	Active	OK	Resource Adapter	soa_server1	325

When work completes  
Force Stop Now  
Stop, but continue servicing administration requests

## 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**

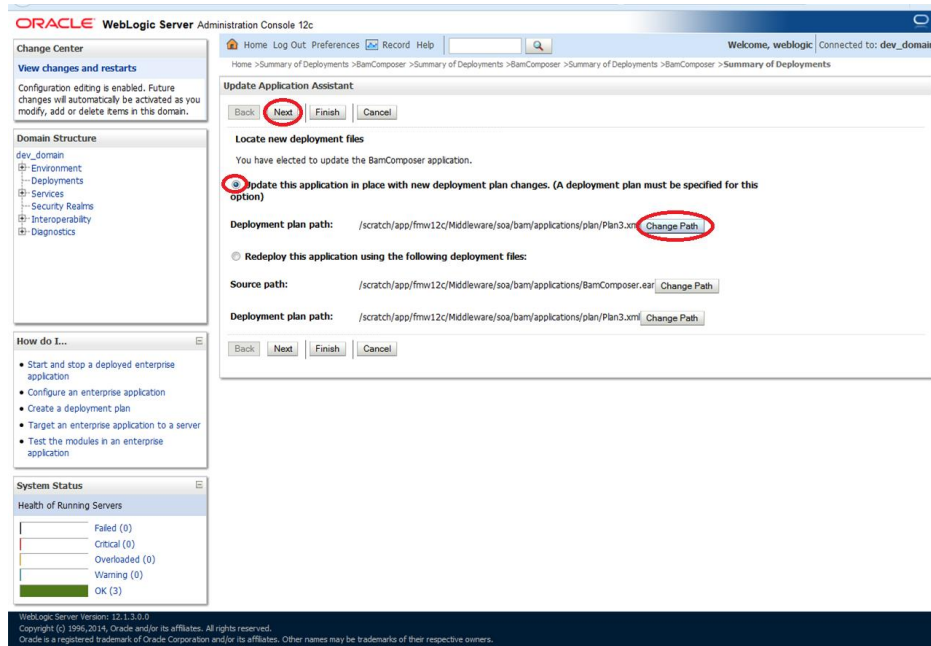
**Deployments**

Install Update Delete Start Stop

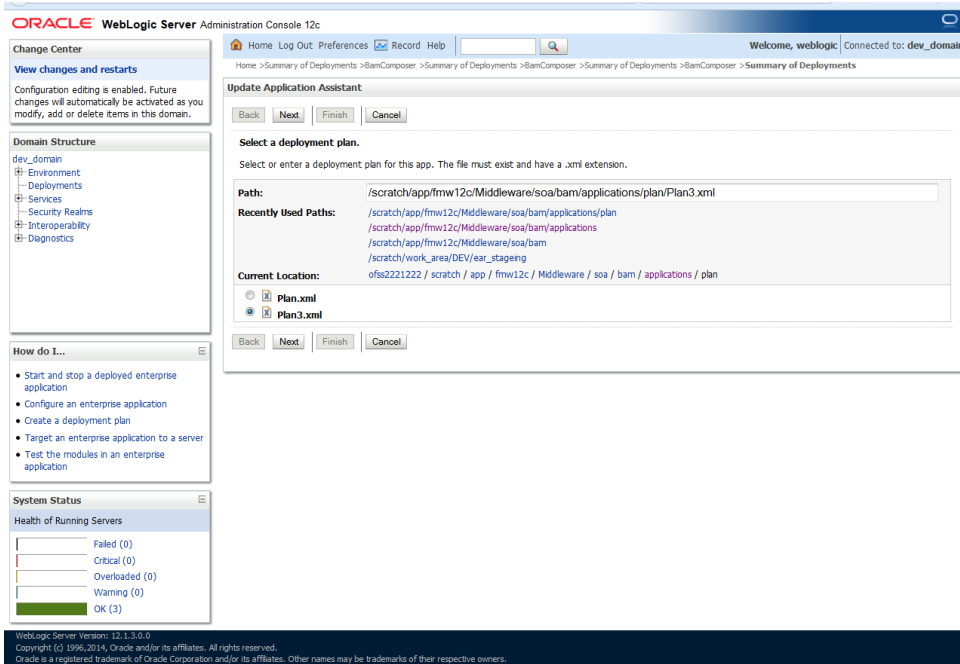
Showing 1 to 47 of 47 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
h2bui	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

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 Log Out Preferences Record Help

Welcome, weblogic Connected to: dev\_domain

Home > Summary of Deployments > BamComposer > 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
mqb2bui	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	soa_server1	314

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

**Oracle WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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

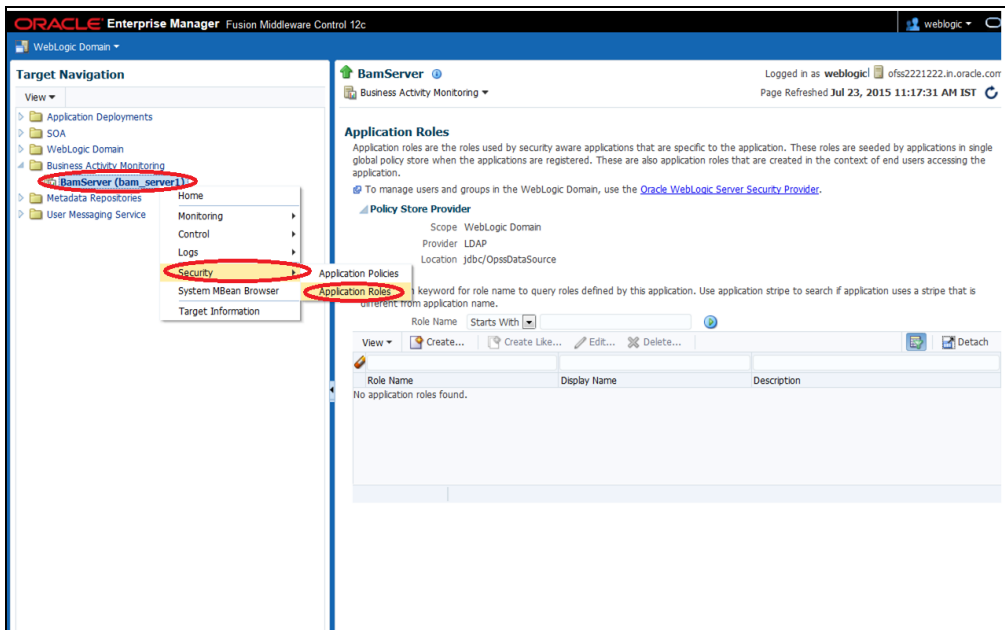
**Deployments**

Install Update Delete Start v Stop v Showing 1 to 48 of 48 Previous Next

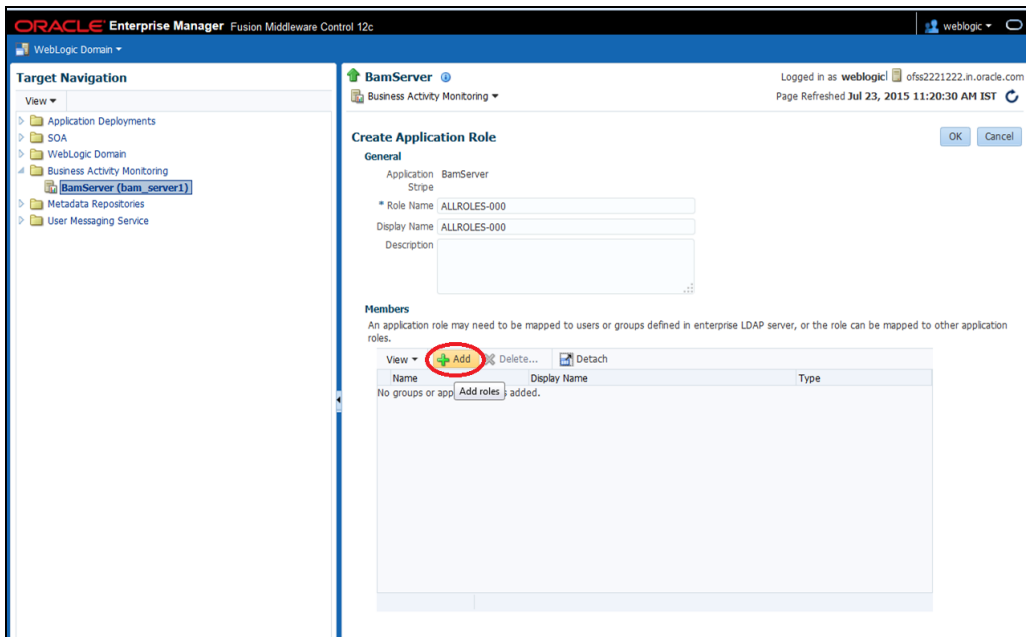
Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOA Server	324
mqb2bui	Prepared	OK	Enterprise Application	SOA Server	313
BamComposer	Prepared	OK	Enterprise Application	BAM Server	500
BamCQService	Active	OK	Enterprise Application	BAM Server	300
BamServer	Active	OK	Enterprise Application	BAM Server	400
BPMComposer	Active	OK	Enterprise Application	SOA Server	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, BAM Server, SOA Server	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	SOA Server	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	SOA Server	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAM Server, SOA Server	5
EMConsoleIT (12.1.0.0.0)	Active		Enterprise	SOA Server	600

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

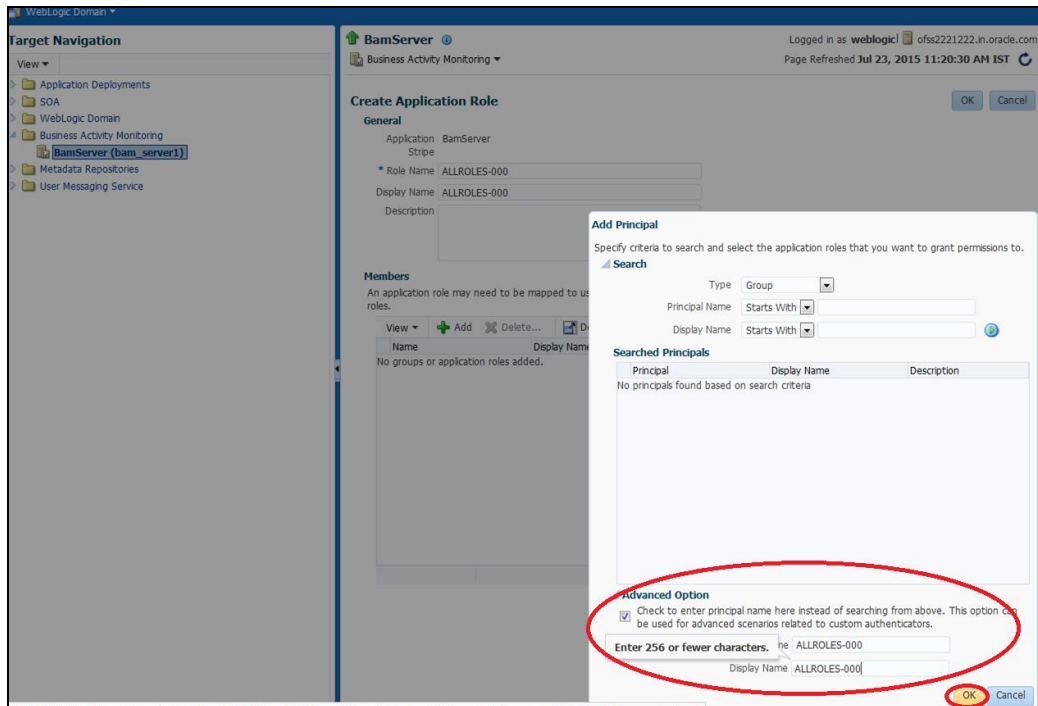
#### 14. Right Click on BAM Server→Security→Application Roles



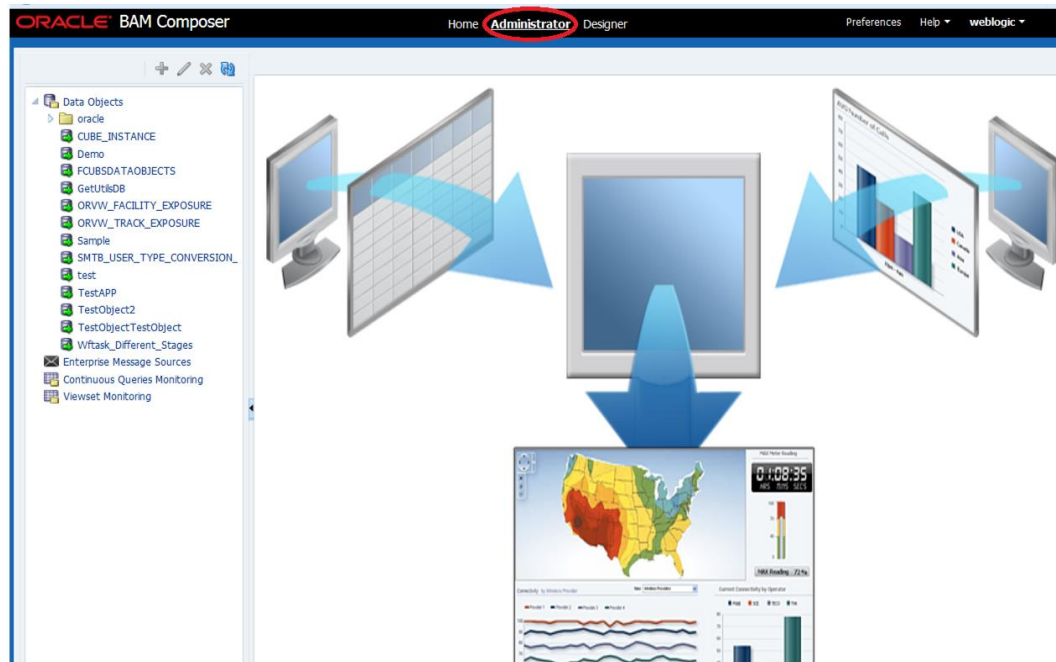
#### 15. Click on Create → create application role with ALL ROLES-000→Click on ADD button in the Members



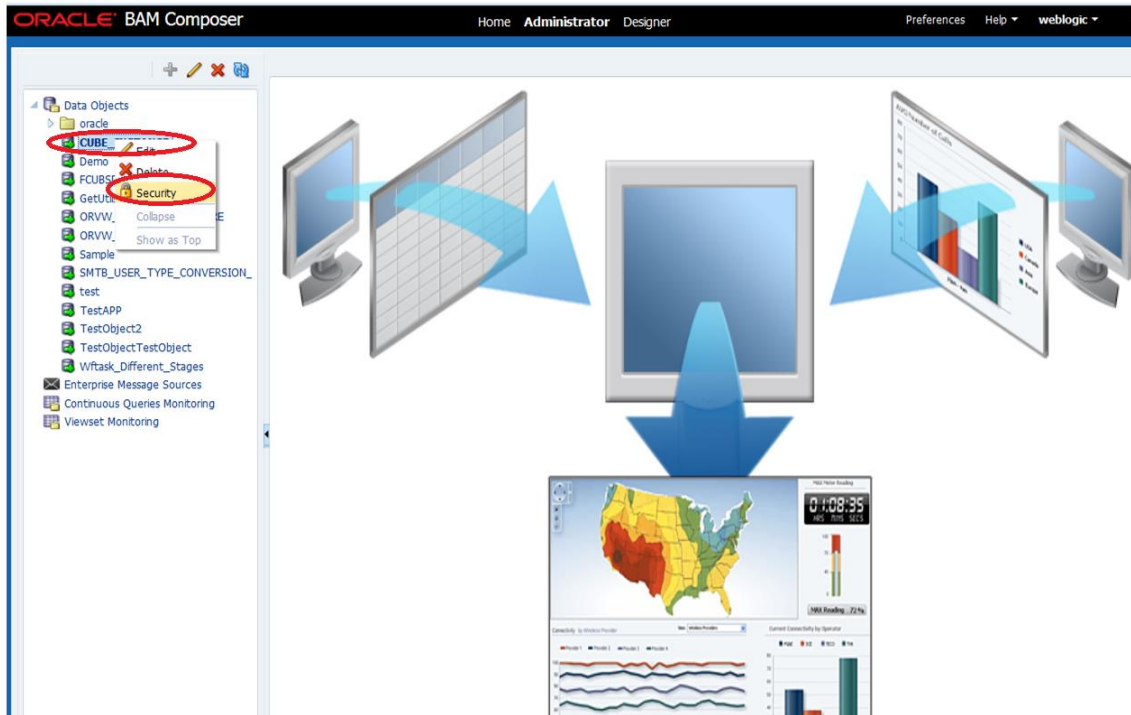
16. Select the Type as Group and add principle details by referring the below screen shot.



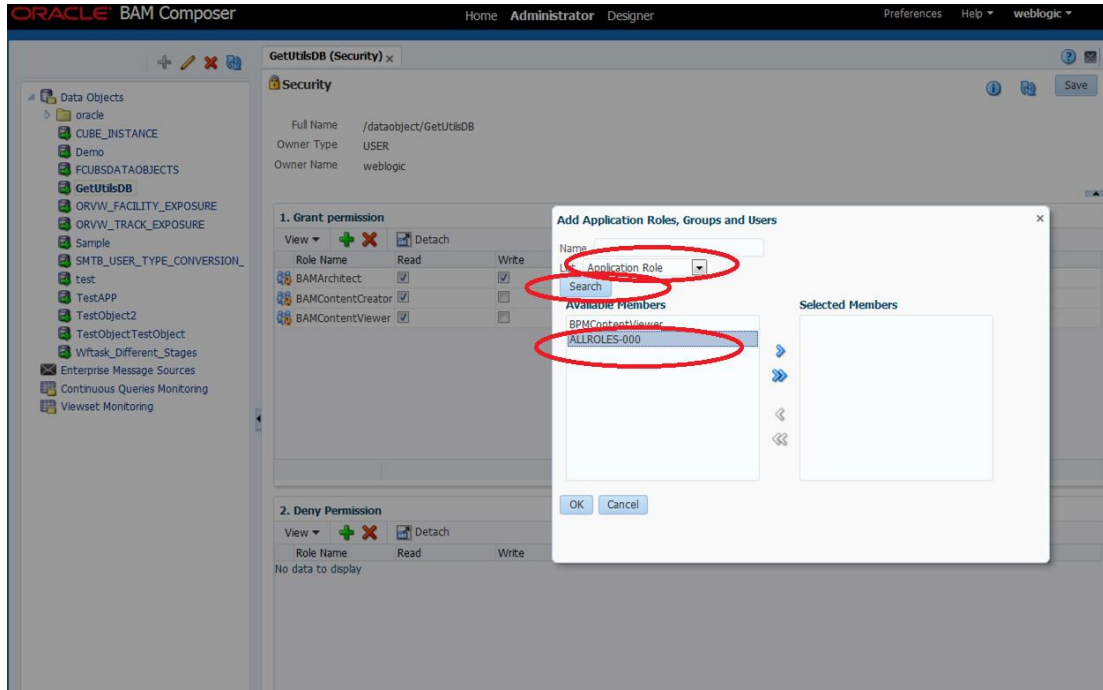
17. Login to BAM Composer → <http://hostname:port/bam/composer> → Click on Administrator.



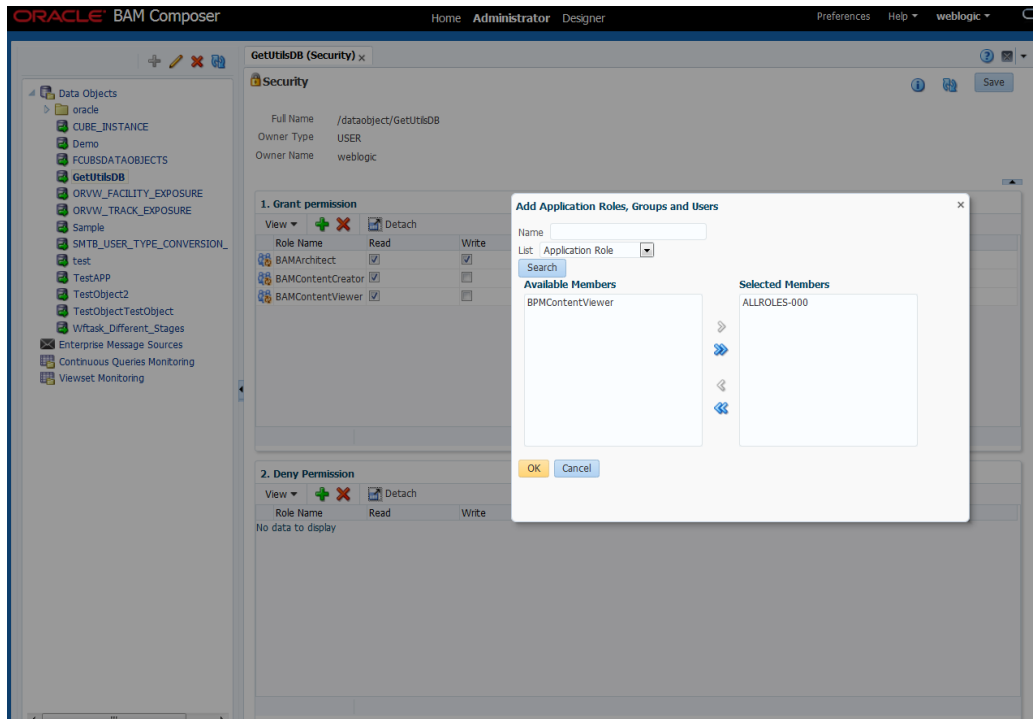
18. Go to Data Object→Right Click on CUBE\_INSTANCE→Security



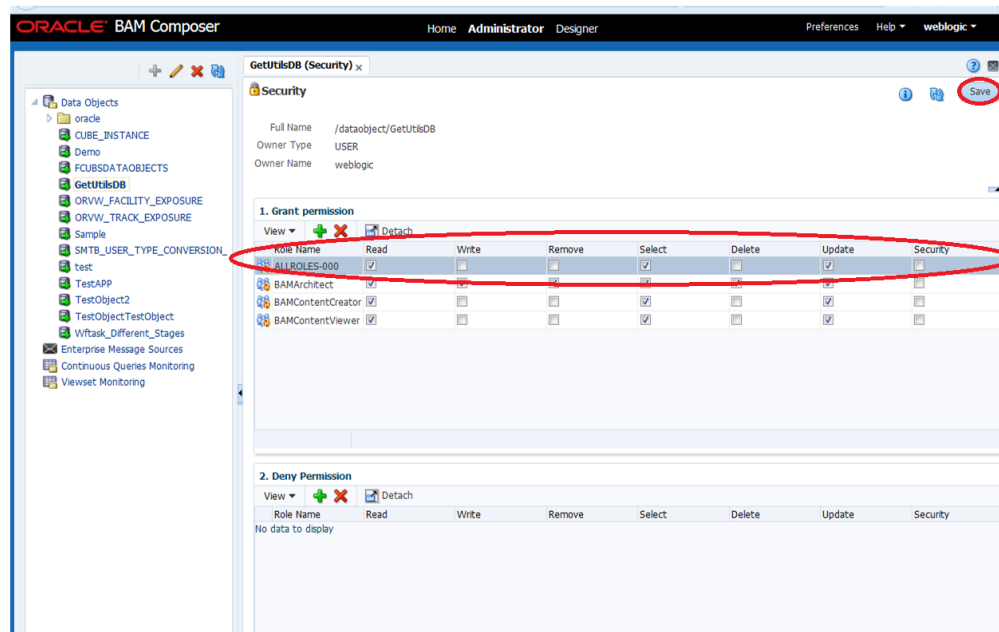
19. Click on Add button under Grant permission and search the list based on the Application Role



20. Move the ALLROLES-000 to Selected members.

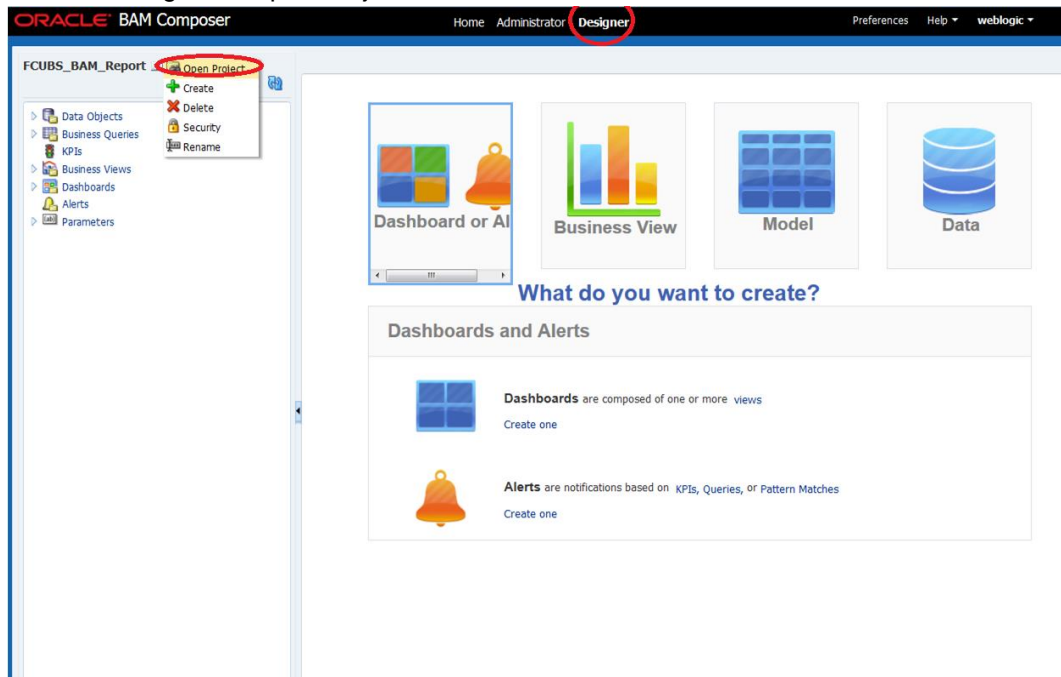


21. Click on read, select and Update check boxes → Click on Save.

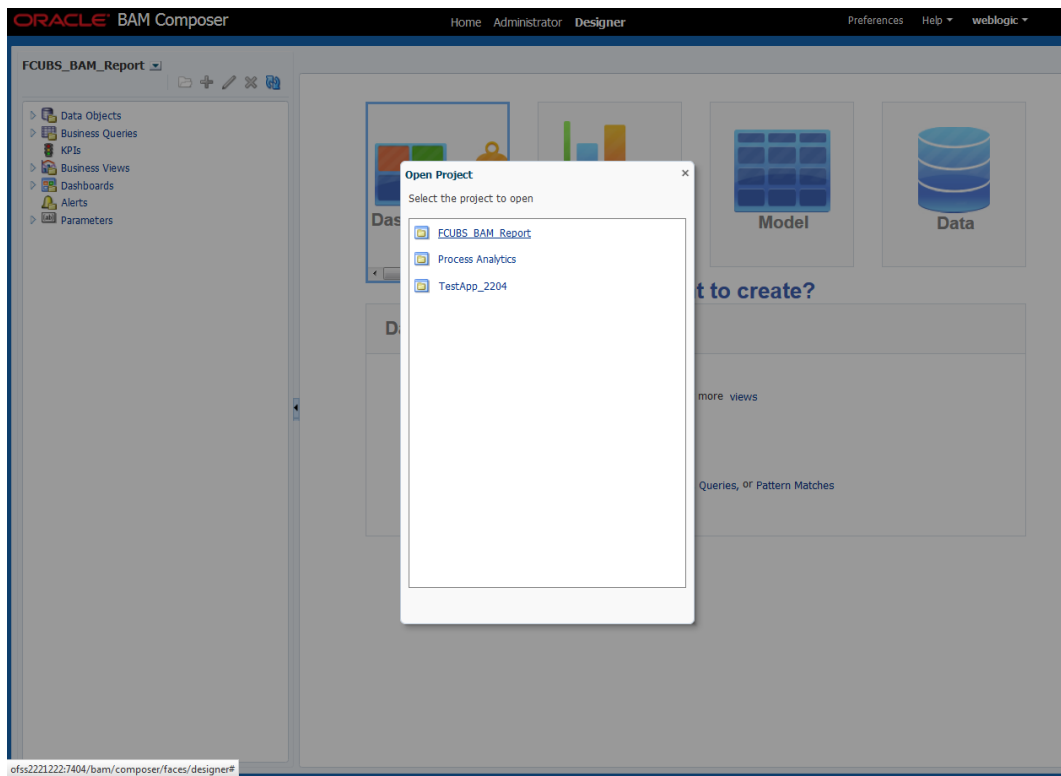


22. Follow the step 17 to 21 for other Data objects also. (cube\_instance, wftask\_different\_stages, ORVW\_TRACK\_EXPOSURE, ORVW\_FACILITY\_EXPOSURE, GetUtilsDB, SMTB\_USER\_TYPE\_CONVERSION\_VIEW, FCUBSDATAOBJECTS).

23. Click on Designer → Open Project

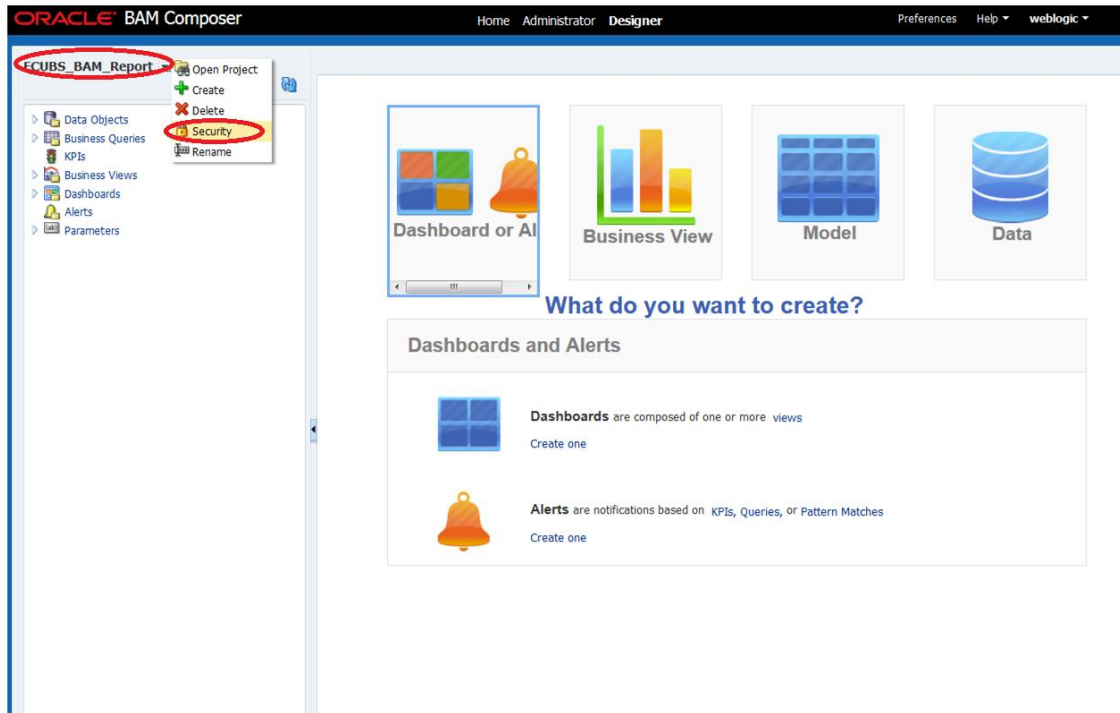


24. Click on FCUBS\_BAM\_report

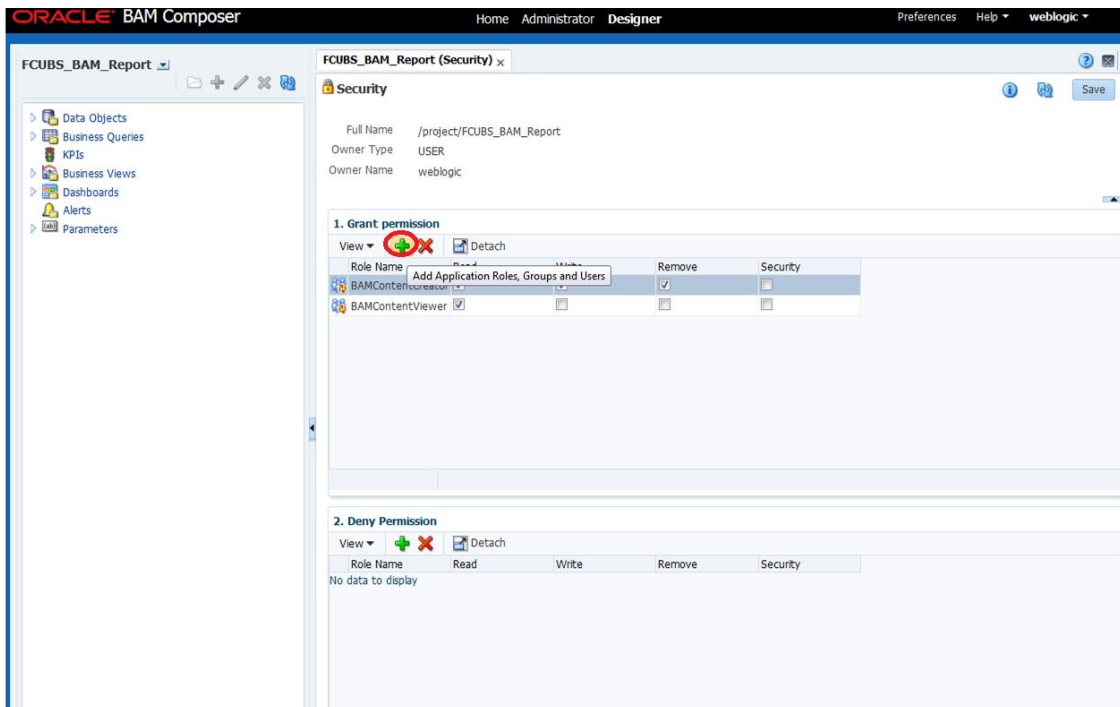


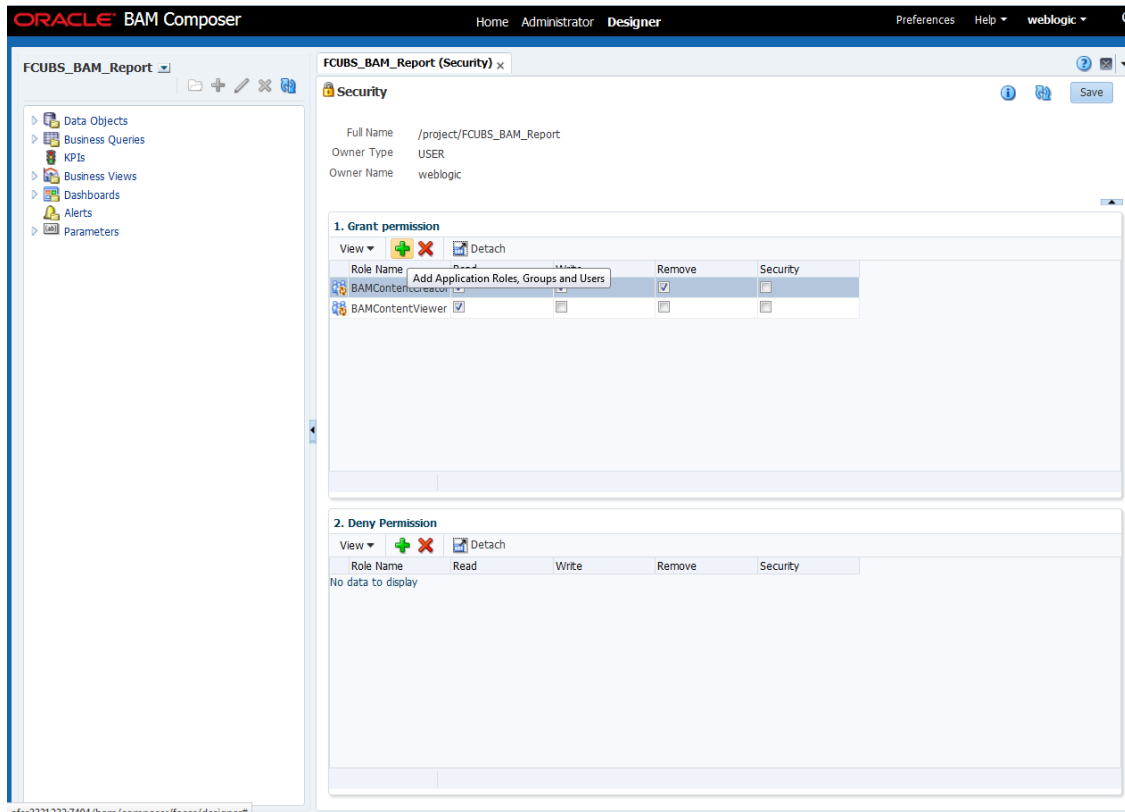


25. Click on FCUBS\_BAM\_Report → Security

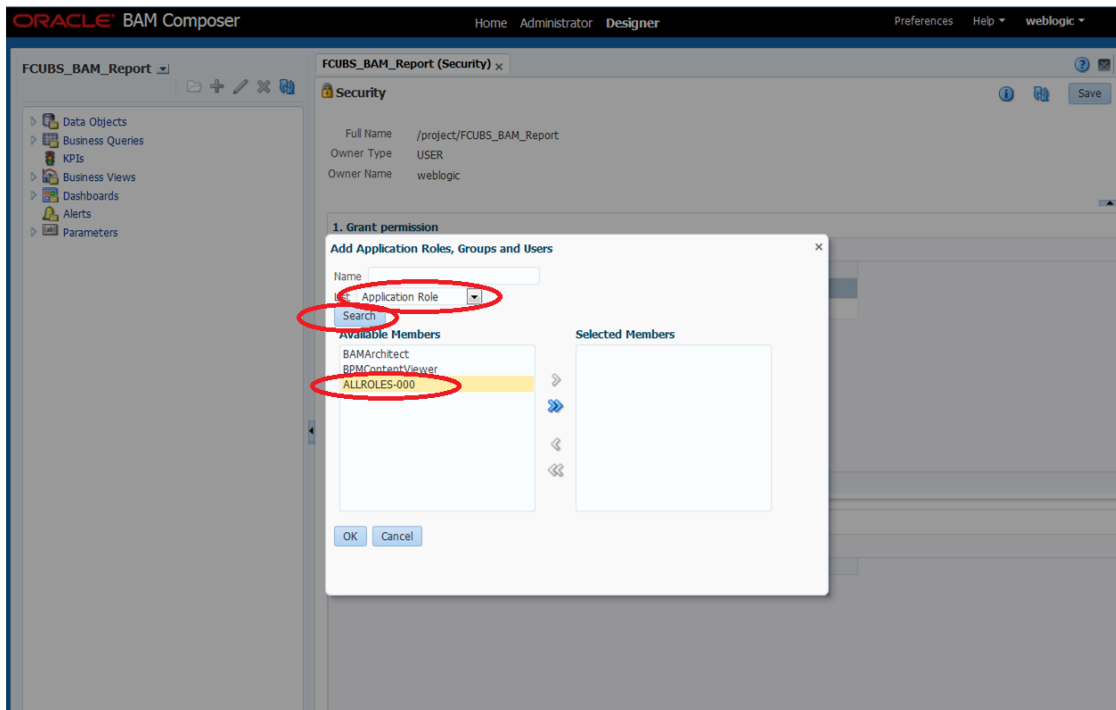


26. Click on ADD button Under Grant Permission.

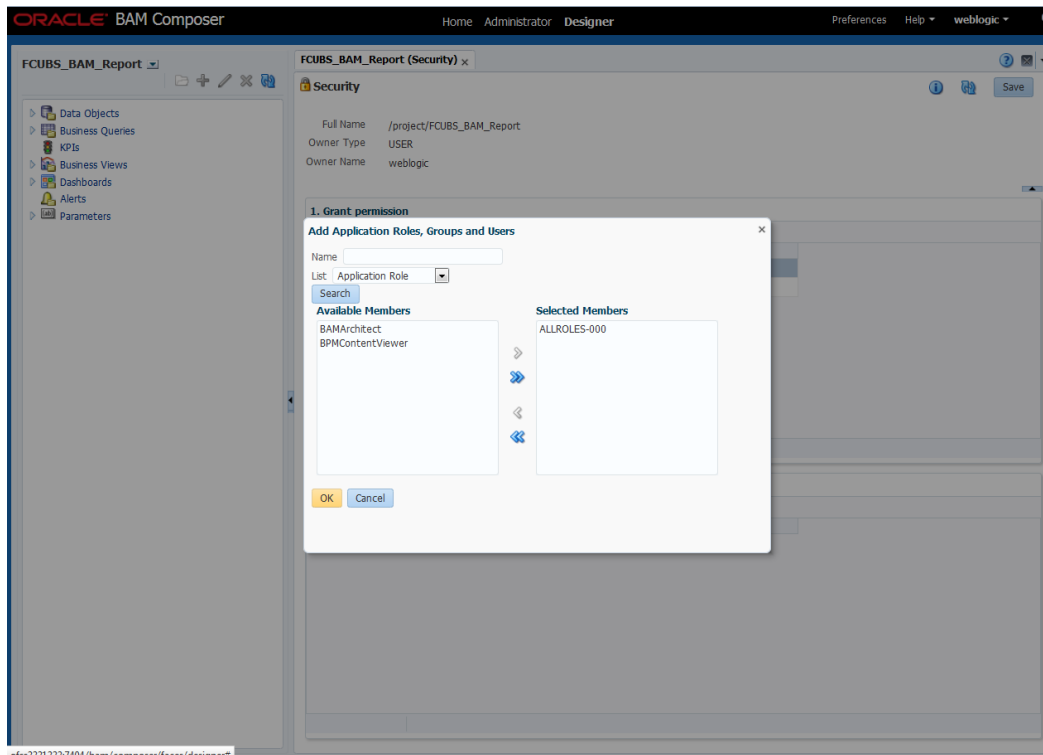




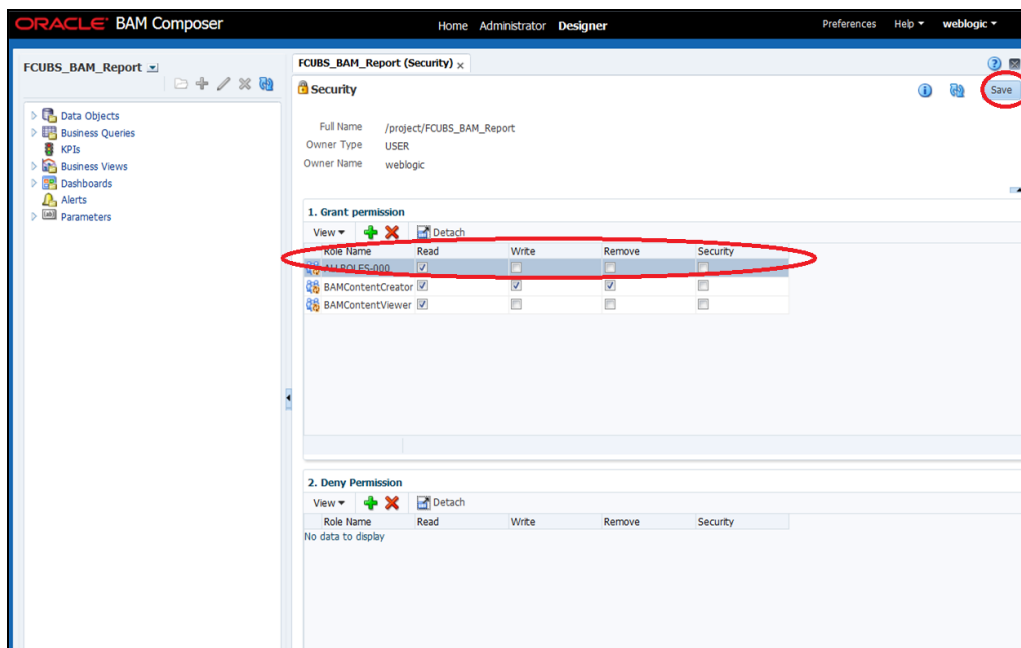
27. Search the List based on the Application Roles and Select the ALLROLES-000



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



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

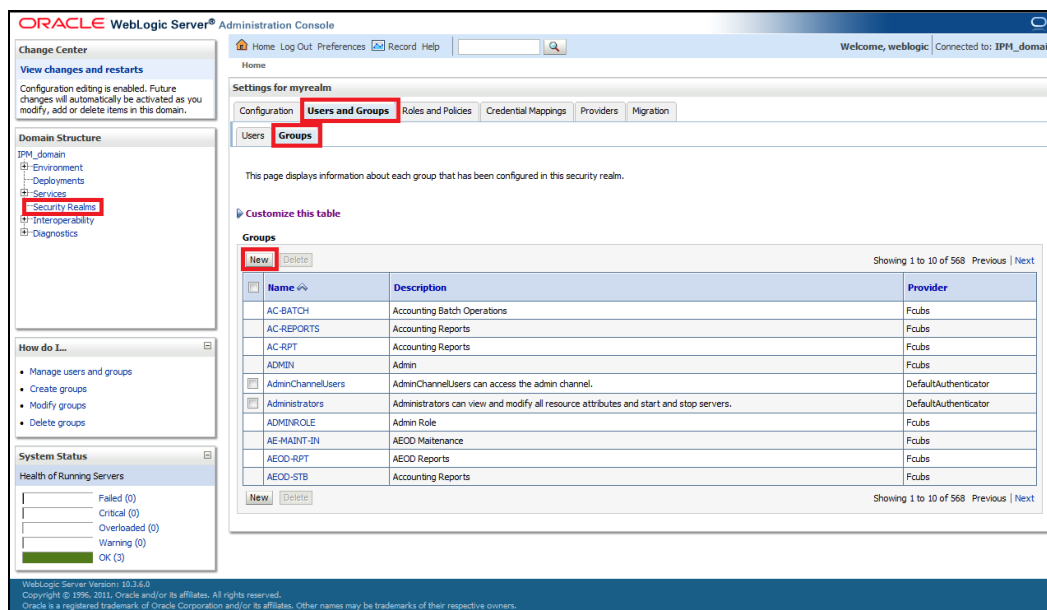


## 1.2.10 IPM configuration to edit the document

- 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.



**ORACLE WebLogic Server® Administration Console**

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

**Settings for myrealm**

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

Users **Groups**

This page displays information about each group that has been configured in this security realm.

**Customize this table**

**Groups**

New Delete Showing 1 to 10 of 568 Previous Next

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

New Delete Showing 1 to 10 of 568 Previous Next

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,

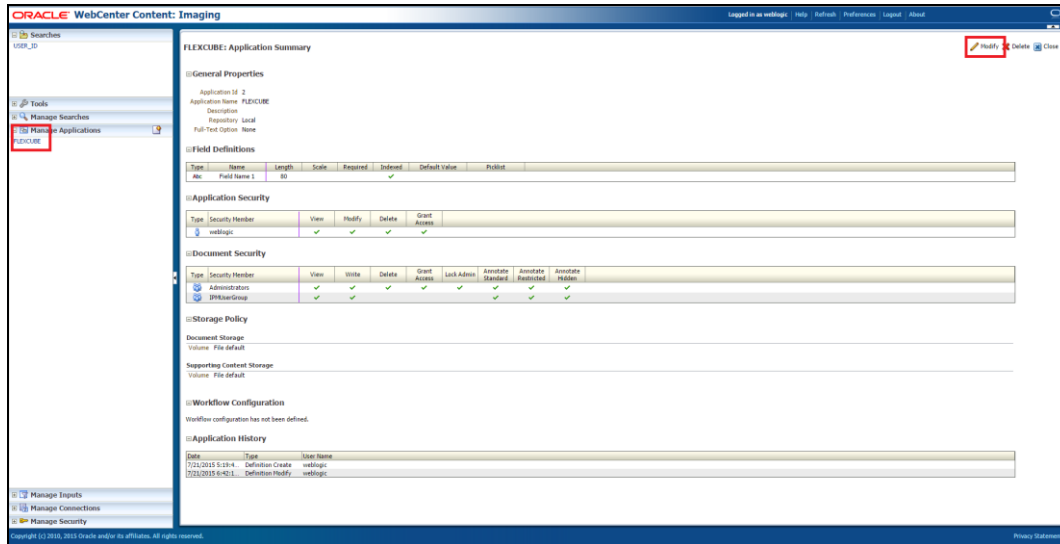
- Enter the name as “IPMUserGroup”
- Description for it (optional)
- And select the authenticator as “DefaultAuthenticator”
- And then click “OK”

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there is a sidebar with sections: 'Change Center' (with a 'View changes and restarts' link), 'Domain Structure' (listing IPM\_domain, Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics), 'How do I...' (with links for Create groups, Modify groups, Delete groups, Create users, and Manage users and groups), and 'System Status' (showing Health of Running Servers with a bar chart for Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (3)). The main area displays the 'Create a New Group' dialog. It has 'OK' and 'Cancel' buttons at the top. Below, it says 'Group Properties' and 'The following properties will be used to identify your new Group.' It asks 'What would you like to name your new Group?' with a text field containing 'IPMUserGroup'. It then asks 'How would you like to describe the new Group?' with a text field containing 'User group for IPM'. Below that, it says 'Please choose a provider for the group.' with a dropdown menu set to 'DefaultAuthenticator'. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The footer of the console shows 'WebLogic Server Version: 10.3.6.0' and copyright information.

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

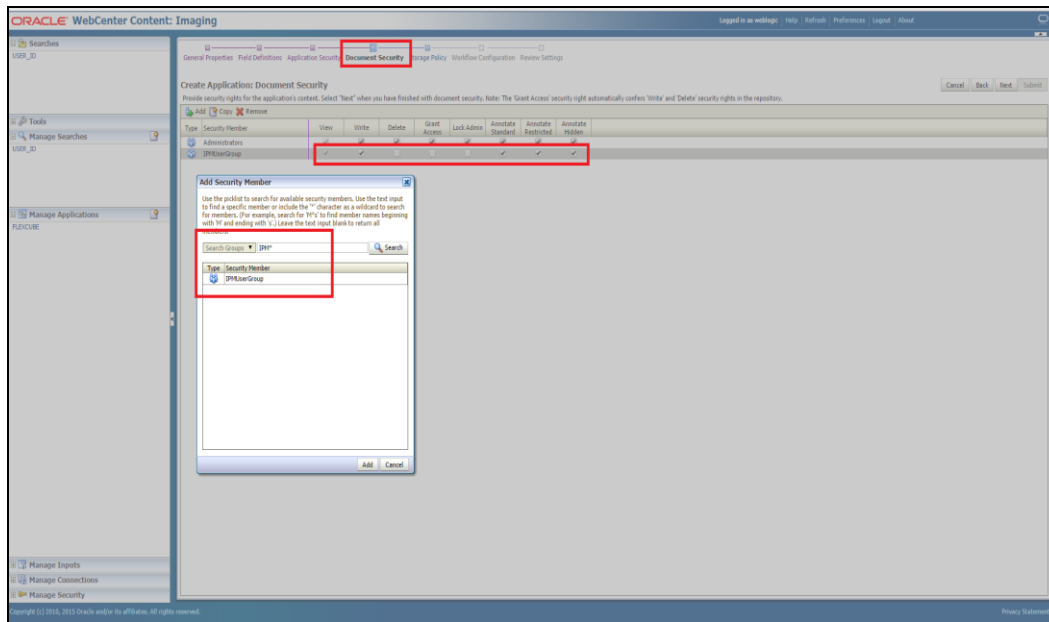
The screenshot shows the Oracle WebCenter Content: Imaging login page. It has a light blue background. In the center, there is a 'Sign In' dialog box. The dialog box has a title bar 'Sign In' and two input fields: 'User ID' and 'Password'. Below the input fields is a 'Sign In' button. At the bottom of the page, there is a copyright notice: 'Copyright (c) 2010, 2013 Oracle and/or its affiliates. All rights reserved.' and a link to the 'Privacy Statement'.

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

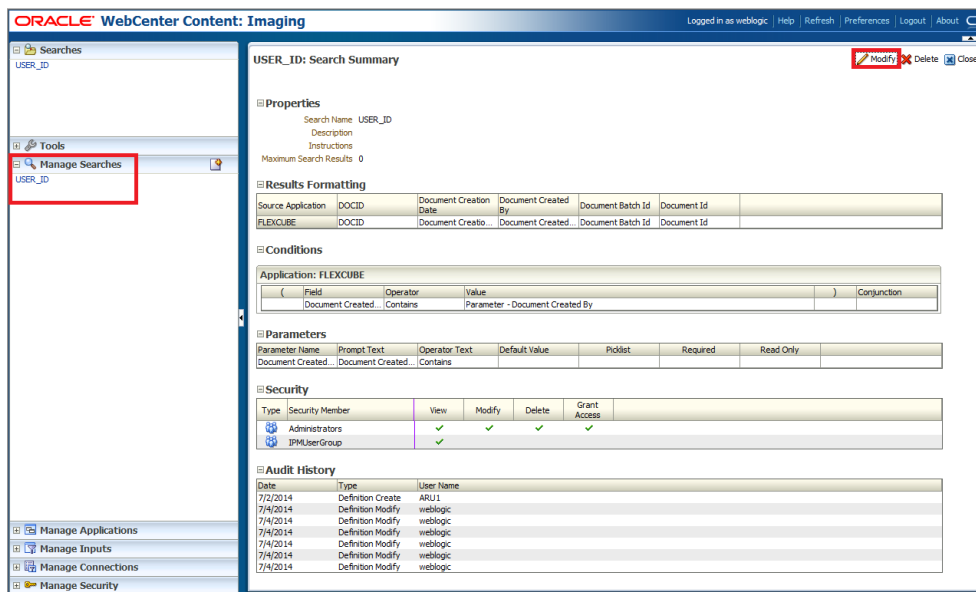


- 6) After clicking on the modify button,
  - a. Navigate to Document Security
  - b. Click on Add button
  - c. Click on Search button in the pop up window
  - d. Select the "IPMUserGroup"
  - e. Click on Add
  - f. IPMUserGroup will be listed in the panel, select view ,write,annotate Standard,Annotate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

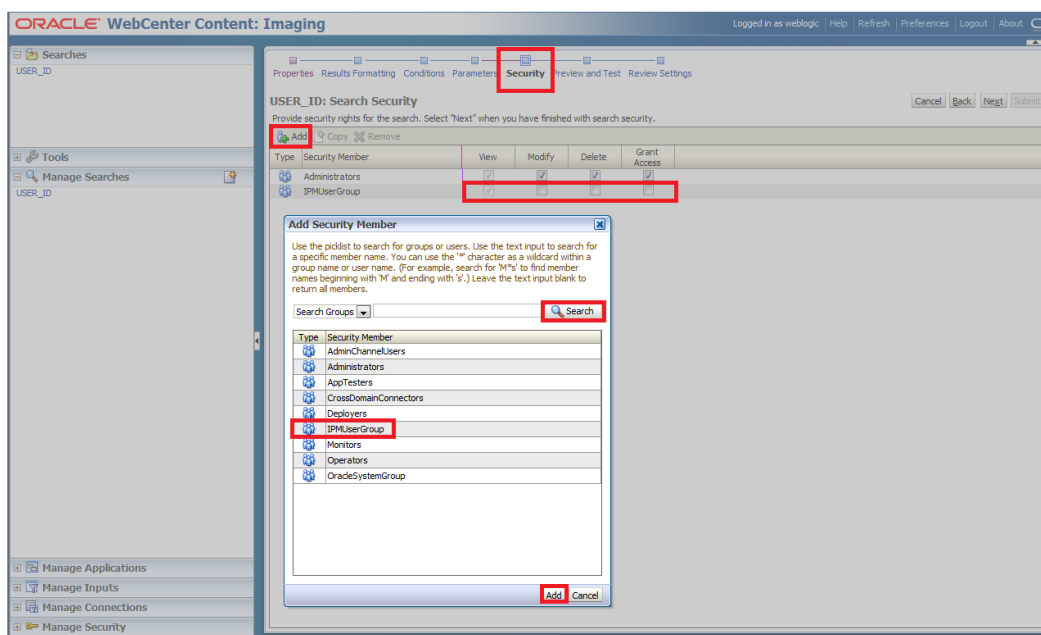
- g. Finally click on the submit button on the right corner



- 7) After clicking on the submit button,
- Navigate to Manage Searches
  - Click on the available search (ex: USER\_ID in this doc)
  - 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\<domain 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>
```



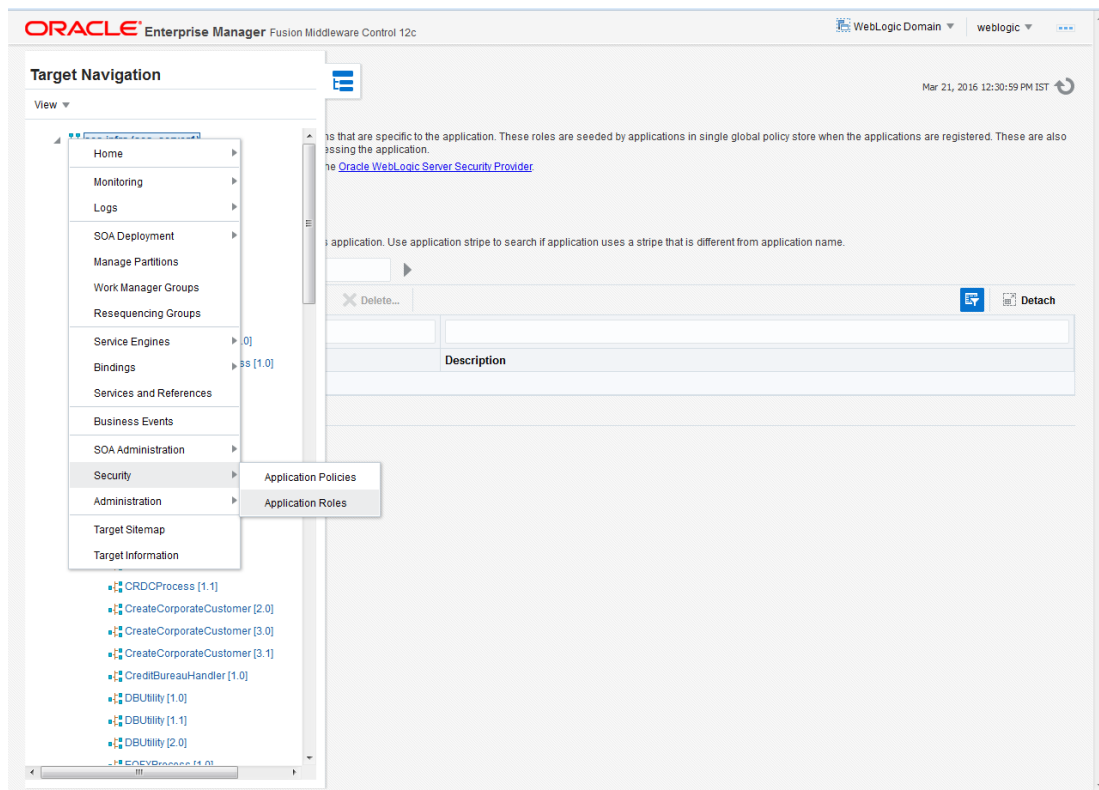
Make sure that the JNDI (jdbc/fcjdevDS) matches the value given during property file creation.

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

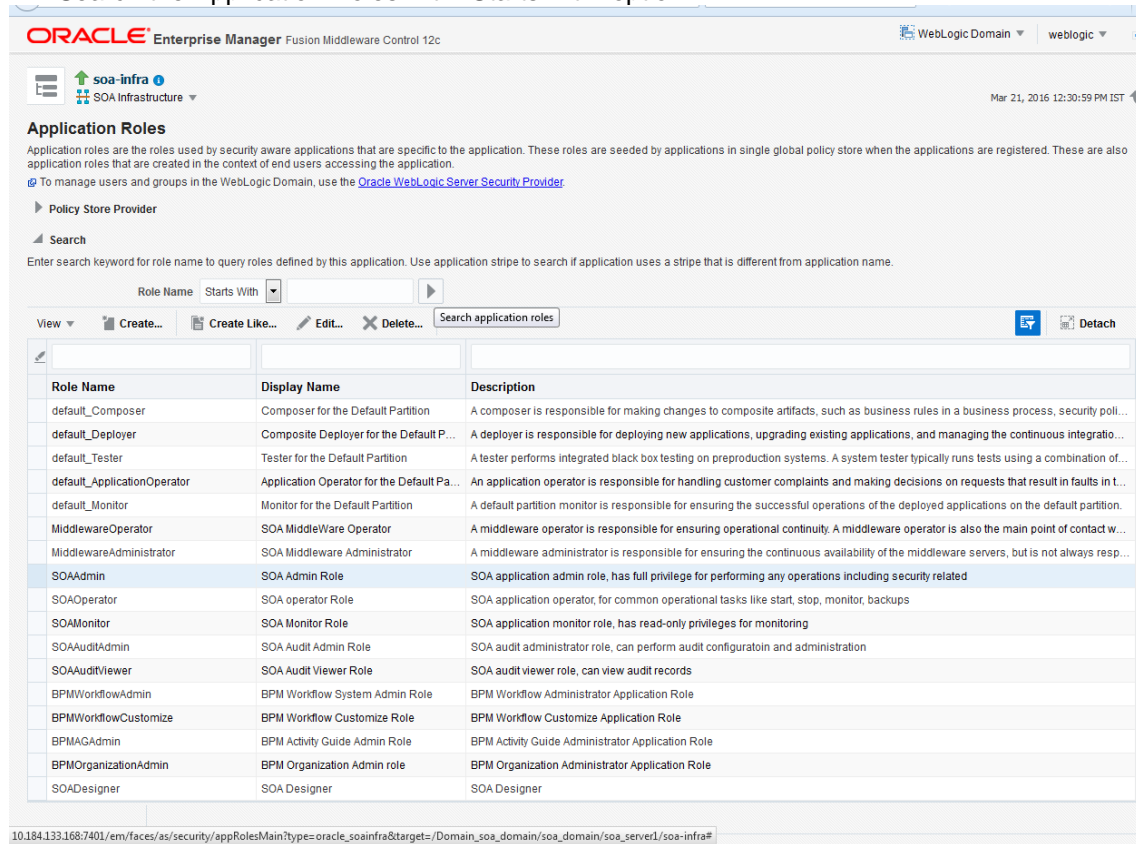
```
<jpsContext name="internalstore">
  <serviceInstanceRef ref="credstore"/>
  <serviceInstanceRef ref="keystore"/>
  <serviceInstanceRef ref="policystore.xml"/>
  <serviceInstanceRef ref="audit"/>
</jpsContext>
```

## 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/as/security/appRolesMain?type=oracle\_soainfra&target=/Domain\_soa\_domain/soa\_domain/soa\_server1/soa-infra#

### 3. Select the SOAAdmin Role and Click on 'Edit option'.

ORACLE® Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

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... Detach

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

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

ORACLE® Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

Mar 21, 2016 12:34:21 PM IST

#### Edit Application Role : SOAAdmin

Role (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members.

General

Application Stripe: soa-infra

Role Name: SOAAdmin

Display Name: SOA Admin Role

Description: SOA application admin role, has full privilege for performing any operations including security related

Members

An application role may have members.

View Add

Name

Administrators

**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.

OK Cancel

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.

Oracle Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain weblogic

Mar 21, 2016 12:34:21 PM IST

### Edit Application Role : SOAAdmin

Role (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members.

OK Cancel

General

Application Stripe soa-infra

Role Name SOAAdmin

Display Name SOAAdmin

Description SOAAdmin

Members

An application role may need members.

View Add

Name

Administrators

#### 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 ALLROLES-000

Display Name Starts With

Searched Principals

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.

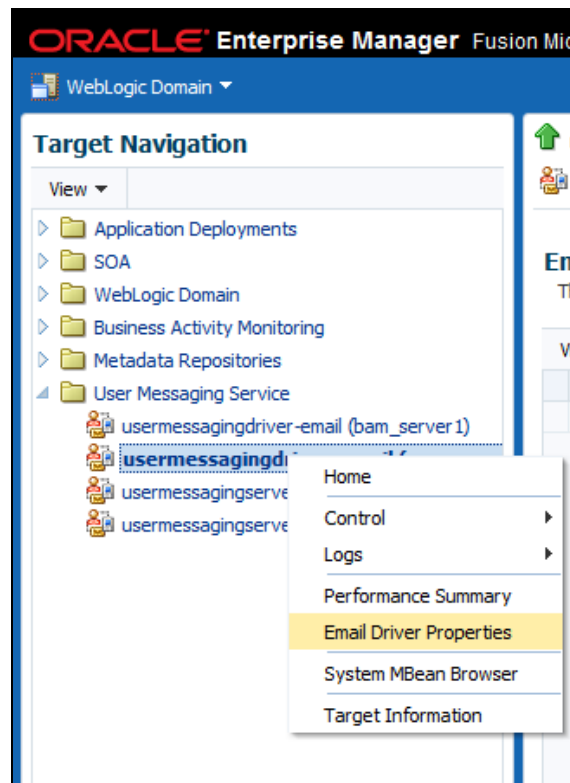
OK Cancel

0.184.133.168:7401/em/faces/as/security/editAppRole?type=oracle\_soainfra&target=/Domain\_soa\_domain/soa\_domain/soa\_server1/soa-infra#

6. Click on Ok .

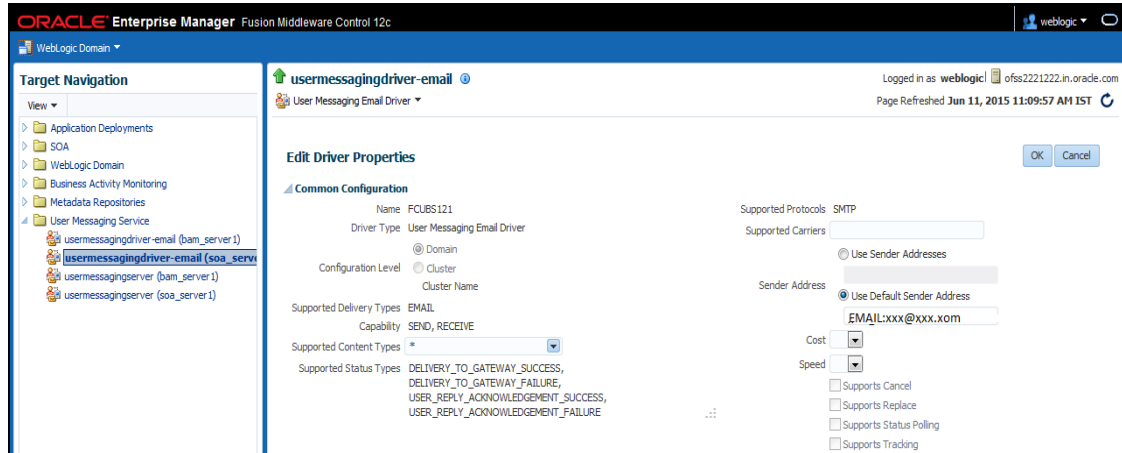
### 1.2.12 Email Driver Configuration

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.			

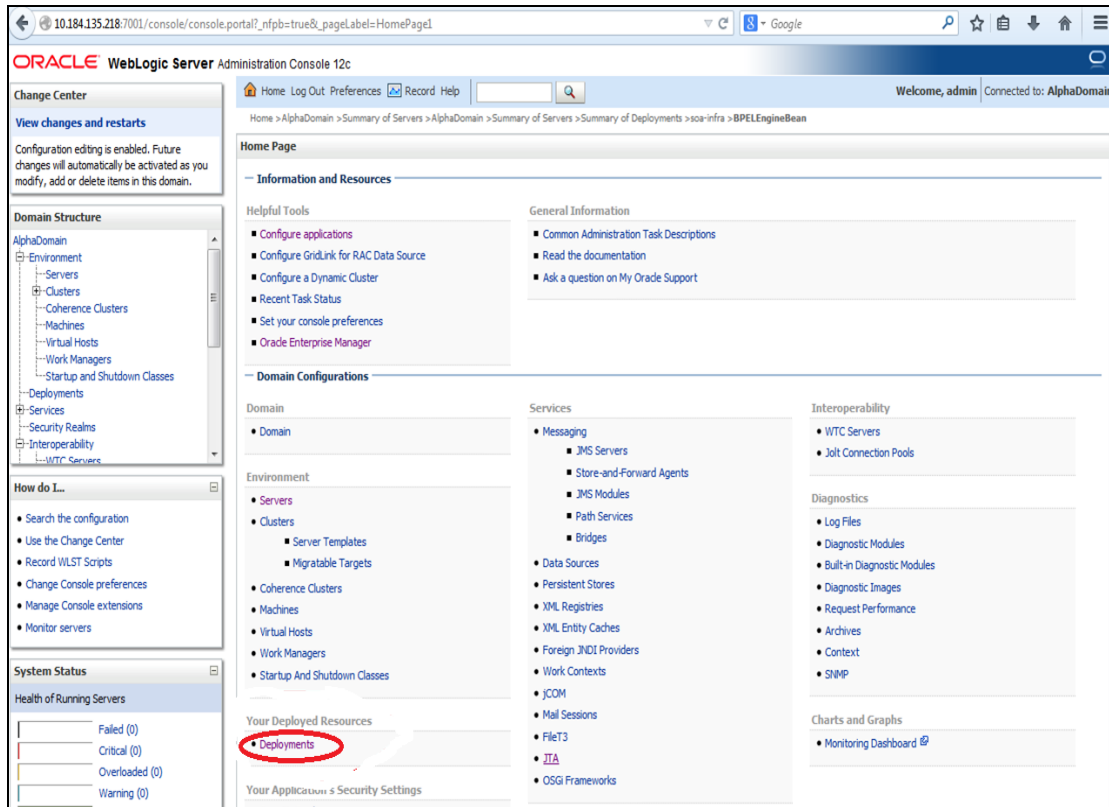
24. Navigate to SOA Administration ->Workflow Properties

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

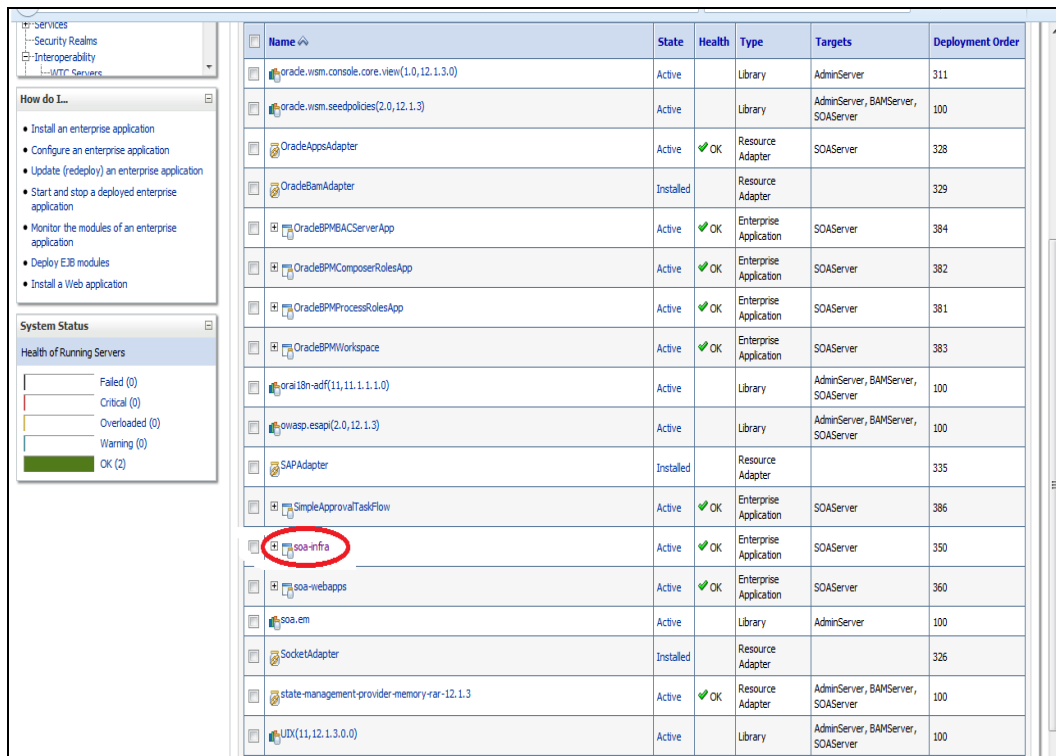


## 1.2.13 TimeOut Settings for BPEL

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

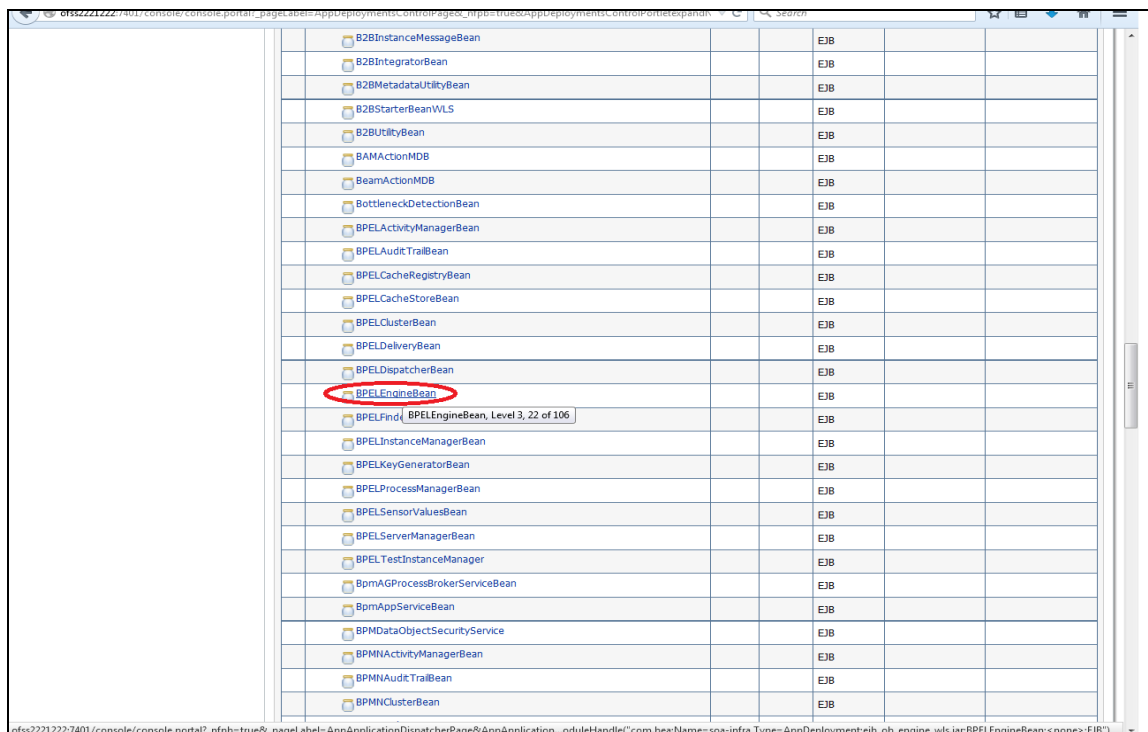


3. Click on SOA\_INFRA Application under deployments.



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, SOA Server	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOA Server	328
OracleBamAdapter	Installed		Resource Adapter		329
OracleBPMACServerApp	Active	OK	Enterprise Application	SOA Server	384
OracleBPMComposerRolesApp	Active	OK	Enterprise Application	SOA Server	382
OracleBPMProcessRolesApp	Active	OK	Enterprise Application	SOA Server	381
OracleBPMWorkspace	Active	OK	Enterprise Application	SOA Server	383
oracle18n-adf(11,11.1.1.1.0)	Active		Library	AdminServer, BAMServer, SOA Server	100
owasp.esap(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOA Server	100
SAPAdapter	Installed		Resource Adapter		335
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOA Server	386
<b>soa-infra</b>	Active	OK	Enterprise Application	SOA Server	350
soa-webapps	Active	OK	Enterprise Application	SOA Server	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, SOA Server	100
UIX(11,12.1.3.0.0)	Active		Library	AdminServer, BAMServer, SOA Server	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
BpmAppProcessBrokerServiceBean	EJB
BpmAppServiceBean	EJB
BPMDataObjectSecurityService	EJB
BPMNActivityManagerBean	EJB
BPMNAuditTrailBean	EJB
BPMNClusterBean	EJB

The screenshot shows the WebLogic Server console with the configuration for the **BPPEngineBean**. The left sidebar shows the navigation tree with 'Services' selected. The main area displays the configuration for the **BPPEngineBean**, which is a **stateless** **Container** type. The **Transaction Timeout** is set to **300** seconds, which is highlighted with a red circle. Other configuration details include the **EJB Class Name** as **com.collaxa.cube.engine.ejb.inpl.bpel.BPPEngineBean**, **Initial Beans in Free Pool** as **100**, and **Max Beans in Free Pool** as **1000**. The **Idle Timeout** is set to **0**. The **Enterprise Bean Configuration** section includes fields for **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**. The **Transaction Timeout** field is set to **300** seconds.

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

The screenshot shows the WebLogic Server console displaying a list of EJBs. The **BPPEDeliveryBean** is highlighted with a red circle. The list includes various EJBs such as **B2BUtilityBean**, **BANActionMDB**, **BeamActionMDB**, **BottleneckDetectionBean**, **BPPEActivityManagerBean**, **BPPEAuditTrailBean**, **BPPECacheRegistryBean**, **BPPECacheStoreBean**, **BPPEClusterBean**, **BPPEDeliveryBean**, **BPPEDispatcher**, **BPPEEngineBean**, **BPPEFinderBean**, **BPPEInstanceManagerBean**, **BPPEKeyGeneratorBean**, **BPPEProcessManagerBean**, **BPPESensorValuesBean**, **BPPEServerManagerBean**, **BPPETestInstanceManager**, **BpmAGProcessBrokerServiceBean**, **BpmAppServiceBean**, **BPMDataObjectSecurityService**, **BPMNActivityManagerBean**, **BPMNAuditTrailBean**, **BPMNClusterBean**, **BPMNDeliveryBean**, **BPMNDispatcherBean**, **BPMNEngineBean**, and **BPMNFinderBean**.

The screenshot shows the WebLogic Server console configuration for the BPELDeliveryBean. The configuration is organized into several sections:

- General Information:**
  - Type: stateless
  - Transaction Type: Container
  - EJB Class Name: com.collaxa.cube.engine.ejb.impl.bpel.BPELDeliveryBean
- Pool Configuration:**
  - Initial Beans in Free Pool: 200
  - Max Beans in Free Pool: 1000
  - Idle Timeout: 0
- Enterprise Bean Configuration:**
  - Network Access Point: (empty)
  - Run As Principal Name: (empty)
  - Create As Principal Name: (empty)
  - Remove As Principal Name: (empty)
  - Passivate As Principal Name: (empty)
  - JNDI Name: (empty)
  - Local JNDI Name: (empty)
  - Dispatch Policy: (empty)
  - Transaction Timeout: 1800** (highlighted with a red circle)

On the left side, there is a 'System Status' panel showing the health of running servers, with 4 servers in 'OK' status.

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.

<b>Timeout Seconds:</b>	<input type="text" value="3600"/>	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. <a href="#">More Info...</a>
<b>Abandon Timeout Seconds:</b>	<input type="text" value="86400"/>	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. <a href="#">More Info...</a>
<b>Before Completion Iteration Limit:</b>	<input type="text" value="10"/>	The maximum number of cycles that the transaction manager performs the beforeCompletion synchronization callback for this WebLogic Server domain. <a href="#">More Info...</a>
<b>Max Transactions:</b>	<input type="text" value="10000"/>	The maximum number of simultaneous in-progress transactions allowed on a server in this WebLogic Server domain. <a href="#">More Info...</a>
<b>Max Unique Name Statistics:</b>	<input type="text" value="1000"/>	The maximum number of unique transaction names for which statistics are maintained. <a href="#">More Info...</a>
<b>Checkpoint Interval Seconds:</b>	<input type="text" value="300"/>	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. <a href="#">More Info...</a>
<input type="checkbox"/> <b>Write recovery logs when determiners configured</b>		Indicates two-phase transaction recovery logs are written even if one or more determiners are configured. <a href="#">More Info...</a>
<b>Determiners:</b>	<div><div></div></div>	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. <a href="#">More Info...</a>
<input checked="" type="checkbox"/> <b>Forget Heuristics</b>		Specifies whether the transaction manager automatically performs an XA Resource forget operation for heuristic transaction completions. <a href="#">More Info...</a>

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 Fusion Middleware Control 12c console. The left-hand 'Target Navigation' pane shows a tree structure under 'SOA' with 'soa-infra' selected. A context menu is open for 'soa-infra', with 'SOA Administration' highlighted, and a sub-menu showing '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 selected. The main console area shows the 'soa-infra (SOAServer)' configuration page. The 'Key Configuration' section displays 'Profile: BPM BASIC', 'Instance Tracking: Production', 'Default Query Duration: Last 24 Hours', and 'Auto Purge: Enabled'. The 'SOA Runtime Health' section shows 'soa-infra (SOAServer)' with a status of 'Initialized Successfully'. The 'Composites and Adapters Availability' section lists four green checkmarks: '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 a list of messages: 'BPEL Invoke', 'BPEL Callback', and 'Mediator Parallel Routing'. The top right corner indicates 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 MaximumNumberOfInvokeMessagesInMemory	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.config:bpel
			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 QualityOfServiceOneWayDeliveryPolicy	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.openmbean.CompositeData
			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.gzip file from the following URL:  
<http://www.quartz-scheduler.org/download/download-catalog.html>
1. Extract the gzip 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] [2019]  
Version 14.1.0.0.0

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