

Setting up Plug-Ins  
Oracle FLEXCUBE Universal Banking  
Release 12.3.0.0.0  
[December] [2016]



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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.

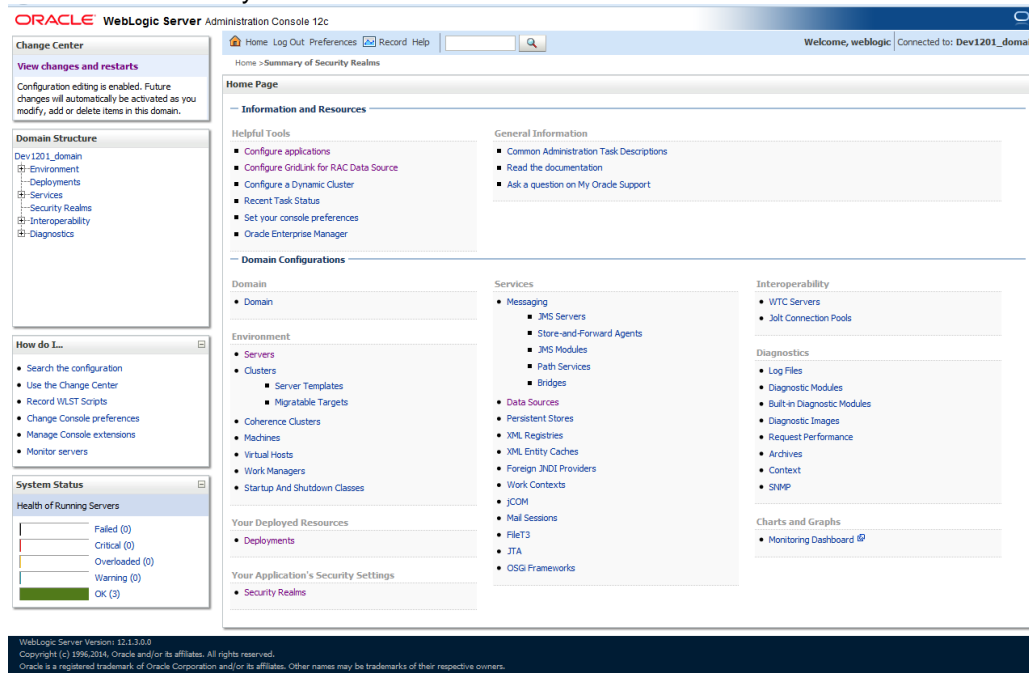
## 1.2 Integrating Oracle FLEXCUBE UBS and BPEL

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

### 1.2.1 Custom Provider Configuration

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

1. Along with FCUBS 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.

ORACLE WebLogic Server Administration Console 12c

Home > 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 security realms in a WebLogic Server domain, but only one can be set as the default (active) realm.

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

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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.

ORACLE WebLogic Server Administration Console 12c

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

Create a New Authentication Provider

OK Cancel

Create a new Authentication Provider

The following properties will be used to identify your new Authentication Provider.

\* Indicates required fields

The name of the authentication provider.

\* Name: FCJCustomProvider

This is the type of authentication provider you wish to create.

Type: FCUBSUserAuthenticator

OK Cancel

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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 DNS. 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

<input type="checkbox"/>	Name	Description	Version
<input type="checkbox"/>	FCJCustomProvider	Authentication provider for FLEXCLUBE users	FCJBS 12.1
<input type="checkbox"/>	Trust Service Identity Asserter	Trust Service Identity Assertion Provider	1.0
<input type="checkbox"/>	DefaultIAAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/>	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 Asserter
- DefaultIAAuthenticator
- DefaultIdentityAsserter

OK Cancel

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for FCJCustomProvider' configuration page. The 'Common' tab is active, showing the following configuration details:

- Name:** FCJCustomProvider
- Description:** Authentication provider for FLEXCUBE users
- Version:** FCUBS 12.1
- Control Flag:** SUFFICIENT

On the left side, there are several panels: 'Change Center' with 'View changes and restarts', 'Domain Structure' showing a tree view of the domain, 'How do I...' with 'No task help found.', and 'System Status' showing 'Health of Running Servers' with 3 OK servers.

## 11. In Provider Specific tab

- Set JNDIName as Flexcube JNDI Name.
- If external authentications used in FCUBS then Fill the Ldap/MSAD related fields.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for FCJCustomProvider' configuration page. The 'Provider Specific' tab is active, showing the following configuration details:

- Ldap SSL Enabled:**
- Authentication Type:** MSAD
- Ldap Domain Name:** OFSS.COM
- Security Authentication Type:** simple
- Ldap Server IP And Port:** localhost:389
- External Password Required:**
- Ldap Server Time Out Duration:** 0
- Msad Or Ldap Login Required:**
- JNDIName:** jdbc/fcdevDS

On the left side, there are several panels: 'Change Center' with 'View changes and restarts', 'Domain Structure' showing a tree view of the domain, 'How do I...' with 'No task help found.', and 'System Status' showing 'Health of Running Servers' with 3 OK servers.

## 12. For manually editing the config.xml go to

<ORACLE\_HOME>\Middleware\user\_projects\domains\base\_domain\config\ path. Open config.xml file. The following codes need to be added at proper locations in the config.xml.

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

```
<sec:authentication-provider xmlns:n1="http://fcubs.ofss.com/security" xsi:type="n1:fcubs-user-authenticatorType">
  <sec:name>FCJCustomProvider</sec:name>
  <sec:control-flag>SUFFICIENT</sec:control-flag>
  <n1:msad-or-ldap-login-required>true</n1:msad-or-ldap-login-required>
  <n1:external-password-required>true</n1:external-password-required>
  <n1:authentication-type>MSAD</n1:authentication-type>
```

```

<n1:ldap-server-ip-and-port>LDAP://localhost:389</n1:ldap-server-ip-and-port>
<n1:ldap-ssl-enabled>true</n1:ldap-ssl-enabled>
<n1:security-authentication-type>simple</n1:security-authentication-type>
<n1:ldap-domain-name>OFSS.COM</n1:ldap-domain-name>
<n1:ldap-server-time-out-duration>0</n1:ldap-server-time-out-duration>
</sec:authentication-provider>

```

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 UBS 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\bpe\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 step7for each entity creation
10. Once the above steps are completed, restart the server.



## 1.2.4 Configuring for Multiple Providers for Multiple Entities

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

The screenshot displays the Oracle WebLogic Administration Console interface. On the left, there is a 'Domain Structure' tree showing a hierarchy from 'soa\_domain' down to 'Diagnostics'. Below it is a 'How do I...' section with search and configuration options, and a 'System Status' section showing the health of running servers with a bar chart indicating 'OK (3)' servers. The main content area is titled 'Information and Resources' and contains several sections: 'Helpful Tools' with links like 'Configure applications' and 'Configure GridLink for RAC Data Source'; 'Domain Configurations' with a tree view where 'Security Realms' is highlighted in a red box; 'General Information' with links to documentation and support; 'Resource Group Templates', 'Resource Groups', 'Deployed Resources', and 'Services' sections; 'Interoperability' with links to WTC Servers and Jolt Connection Pools; 'Diagnostics' with links to Log Files and Diagnostic Modules; and 'Charts and Graphs' with a link to the Monitoring Dashboard. At the bottom left, a footer indicates 'WebLogic Server Version: 12.2.1.0.0 Copyright (c) 1996-2015, Oracle and/or its affiliates. All rights reserved.'

3. Click on myrealms.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: soa\_dom

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

### 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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10.184.133.168:7401/console/console.portal?\_nfpb=true&\_pageLabel=RealmgeneralTabPage&SecurityRealmRealmGe...bea.console.handles.SecurityMBeanHandle("Security:Name=myrealm;weblogic.management.security.RealmMBean")

#### 4. Click on Providers.

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for myrealm" and is divided into several tabs: "Configuration", "Users and Groups", "Roles and Policies", "Credential Mappings", "Providers", and "Migration". The "Providers" tab is currently selected and highlighted with a red box. Below the tabs, there are sub-tabs for "General", "RDBMS Security Store", "User Logout", "Performance", and "Providers-Tab". The "Providers-Tab" sub-tab is active. A "Save" button is located at the top left of the configuration area. The main configuration area contains a "Name" field set to "myrealm" and a "Security Model Default" dropdown menu set to "DD Only". Below these are three checkboxes: "Combined Role Mapping Enabled" (checked), "Use Authorization Providers to Protect JMX Access" (unchecked), and "Automatically Restart After Non-Dynamic Changes" (unchecked). A "Retire Timeout" field is set to "60". At the bottom of the configuration area, there is an "Advanced" link and another "Save" button. On the left side, there is a "Change Center" section with a "View changes and restarts" link, a "Domain Structure" tree showing a hierarchy from "soa\_domain" down to "Diagnostics", and a "System Status" section showing the health of running servers with a bar chart indicating 0 Failed, 0 Critical, 0 Overloaded, 0 Warning, and 3 OK servers. The footer of the console displays the version "WebLogic Server Version: 12.2.1.0.0" and copyright information.

5. Click on New

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and is divided into several tabs: Configuration, Users and Groups, Roles and Policies, Credential Mappings, **Providers**, and Migration. Under the 'Providers' tab, there are sub-tabs for Authentication, Password Validation, Authorization, Adjudication, Role Mapping, Auditing, Credential Mapping, and Certification Path. The 'Authentication' sub-tab is active, displaying a table of 'Authentication Providers'.

Below the 'Authentication Providers' table, there are 'New', 'Delete', and 'Reorder' buttons. The 'New' button is highlighted, indicating the next step in the process.

Name	Description	Version
FCUBS	Authentication provider for FLEXCUBE users	FCUBS 12.2
Trust Service Identity Asserter	Trust Service Identity Assertion Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

At the bottom of the console, the system status is shown as 'OK (3)'. The footer contains the following text: 'WebLogic Server Version: 12.2.1.0.0 Copyright (c) 1996-2015, 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.'

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

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main window is titled "Create a New Authentication Provider". The breadcrumb navigation path is "Home > FCUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Providers > ENTITYID > Providers".

On the left side, there are several panels:

- Change Center:** Shows "View changes and restarts" and a note: "Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain."
- Domain Structure:** A tree view showing the hierarchy: soa\_domain > Domain Partitions > Environment > Deployments > Services > Security Realms > Interoperability > Diagnostics.
- How do I...:** A list of links: "Manage security providers" and "Configure Authentication and Identity Assertion providers".
- System Status:** A bar chart showing the health of running servers: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (3).

The main content area contains the "Create a New Authentication Provider" form:

- Buttons: "OK" and "Cancel".
- Section: "Create a new Authentication Provider".
- Text: "The following properties will be used to identify your new Authentication Provider." and "\* Indicates required fields".
- Text: "The name of the authentication provider." followed by a text input field labeled "Name:" containing the value "ENTITYID".
- Text: "This is the type of authentication provider you wish to create." followed by a dropdown menu labeled "Type:" with the value "FCUBSUserAuthenticator".
- Buttons: "OK" and "Cancel".

At the bottom of the console, there is a footer with the following text:

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7. click on Reorder. Bring the Authentication provider the first in the order and click ok.

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main window is titled "Reorder Authentication Providers" and contains the following elements:

- Change Center:** A sidebar on the left with sections for "View changes and restarts", "Domain Structure" (listing soa\_domain, Domain Partitions, Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics), "How do I..." (with links for re-ordering providers and JAAS control flags), and "System Status" (showing health of running servers: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (2)).
- Navigation:** A breadcrumb trail at the top: Home > FCUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Providers > ENTITYYID > Providers.
- Dialog Title:** "Reorder Authentication Providers" with "OK" and "Cancel" buttons.
- Instructions:** "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 List:** A list titled "Available:" containing:
  - ENTITYYID
  - FCUBS
  - Trust Service Identity Asse
  - DefaultAuthenticator
  - DefaultIdentityAsserterArrows on the right of the list allow for reordering.
- Buttons:** "OK" and "Cancel" buttons at the bottom of the dialog.

At the bottom of the console, the footer text reads: "WebLogic Server Version: 12.2.1.0.0 Copyright (c) 1996-2015, 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."

8. Click the Provider that we have created.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and is under the 'Providers' tab. A table lists the authentication providers:

Name	Description	Version
<b>ENTITYID</b>	Authentication provider for FLEXCUBE users	FCUBS 12.2
FCUBS	Authentication provider for FLEXCUBE users	FCUBS 12.2
TrustServiceIdentityAsserter	Trust Service Identity Assertion Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

The 'ENTITYID' provider is highlighted in blue. The left sidebar contains navigation menus for 'Domain Structure', 'How do I...', and 'System Status'. The bottom of the page shows the WebLogic Server version (12.2.1.0.0) and copyright information.

10.184.133.168:7401/console/console.portal?\_nfpb=true&DispatcherPortletperspective=configuration&\_pageLabel=...viders.authentication.FCUBSUserAuthenticatorMBean%22%29&DispatcherPortletproviderType=AuthenticationProvider

9. In command tab select the control flag as SUFFICIENT from the list and click on save.

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for ENTITYID" and shows the configuration for the ENTITYID provider. The "Control Flag" is set to "SUFFICIENT".

**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 ENTITYID**  
Configuration  
Common Provider Specific  
Save  
This page allows you to define the general configuration of this provider.  
Name: ENTITYID  
Description: Authentication provider for FLEXCUBE users  
Version: FCUBS 12.2  
Control Flag: SUFFICIENT  
Save

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10. Select the provider specific tab .

The screenshot displays the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for ENT1YID" and is divided into "Common" and "Provider Specific" tabs. The "Provider Specific" tab is active, showing a "Save" button at the top and a message: "This page allows you to configure additional attributes for this security provider." Below this, several configuration fields are visible:

- Ldap Server Ip And Port:** localhost389
- JNDIName:** jdbc/fc/devDS
- External Password Required:** (checkbox, unchecked)
- Ldap Server Time Out Duration:** 0
- Multi Entity Enabled:** (checkbox, unchecked)
- Security Authentication Type:** simple
- Entity Id:** ENT1
- Ldap Domain Name:** OFSS.COM
- Ldap SSL Enabled:** (checkbox, unchecked)
- Hsadb Or Ldap Login Required:** (checkbox, unchecked)
- Authentication Type:** MSAD

At the bottom of the configuration area is another "Save" button. The left sidebar contains navigation menus for "Change Center", "Domain Structure", "How do I...", and "System Status". The footer of the console displays the version "WebLogic Server Version: 12.3.1.0.0" and copyright information.

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

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for ENTITYID" and is divided into "Common" and "Provider Specific" tabs. The "Provider Specific" tab is active, showing various configuration fields. The "JNDIName" field is highlighted with a red box and contains the value "jdbc/tjdevDS". The "Multi Entity Enabled" checkbox is checked and highlighted with a red box. The "Entity Id" field contains the value "ENT1". Other fields include "Ldap Server Ip And Port" (localhost:389), "External Password Required" (unchecked), "Ldap Server Time Out Duration" (0), "Security Authentication Type" (simple), "Ldap Domain Name" (OFSS.COM), "Ldap SSL Enabled" (unchecked), and "Msad Or Ldap Login Required" (unchecked). The "Authentication Type" dropdown is set to "MSAD".

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for ENT1TYID" and is divided into "Common" and "Provider Specific" tabs. The "Provider Specific" tab is active, showing various configuration fields for an LDAP provider. The "Entity Id" field is highlighted with a red border and contains the value "ENT1". Other visible fields include "Ldap Server Ip And Port" (localhost:389), "JNDIName" (jdbc/cjdevDS), "Ldap Server Time Out Duration" (0), "Security Authentication Type" (simple), "Ldap Domain Name" (OFSS.COM), and "Authentication Type" (MSAD). The left sidebar contains navigation menus for "Change Center", "Domain Structure", "How do I...", and "System Status".

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 multientity scenario.

## 1.2.5 Configuring DBAdapter

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

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains navigation menus for Change Center, Domain Structure, How do I..., and System Status. The main content area is titled 'Summary of Deployments' and includes a 'Control' tab. Below the tab is a table of deployments with columns for Name, State, Health, Type, Targets, and Deployment Order. The 'DbAdapter' entry is highlighted in the table.

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
ib2b2bui	Active	OK	Enterprise Application	soa_server1	313
ibBamComposer	New		Enterprise Application	bam_server1	500
ibBamCQService	New		Enterprise Application	bam_server1	300
ibBamServer	New		Enterprise Application	bam_server1	400
ibBPMComposer	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
FCLBApp (12.1.0.0)	Prepared	OK	Enterprise Application	soa_server1	500

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

The screenshot shows the 'Settings for DbAdapter' page in the Oracle WebLogic Server Administration Console. The 'Configuration' tab is selected, and the 'Outbound Connection Pools' sub-tab is active. Below the sub-tab is a table titled 'Outbound Connection Pool Configuration Table' with columns for Groups and Instances and Connection Factory Interface. The table shows one entry for 'javax.resource.cci.ConnectionFactory'.

Groups and Instances	Connection Factory Interface
javax.resource.cci.ConnectionFactory	javax.resource.cci.ConnectionFactory

12. Click 'Configuration' tab and select 'Outbound Connection Pools' under it.

13. Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
14. Click 'New' and select 'javax.resource.cci.ConnectionFactory' in Outbound Connection Group.
15. 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'.
16. Click 'DbAdapter' again. The new JNDI name is listed.
  17. Click on the hyperlink 'eis/DB/FCCDEV'.

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

Property Name	Property Type	Property Value	Supports Dynamic Updates
DataSourceName	java.lang.String	jdbc/fcdev05	false
DefaultVChar	java.lang.Boolean	false	false
PlatformClassName	java.lang.String	org.eclpse.persistence.platform.database.Oracle10Platform	false
SequencePreallocationSize	java.lang.Integer	50	false
UsesBatchWriting	java.lang.Boolean	true	false
UsesNativeSequencing	java.lang.Boolean	true	false
UsesSkipLocking	java.lang.Boolean	true	false
XADataSourceName	java.lang.String		false

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

## 1.2.6 Configuring JMS Adapter

Login in to console → Click on JMS Servers→New

soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Home Page - AlphaDoma... x dev\_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=HomePage1

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Home > AlphaDomain > Summary of JMS Servers

**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...**  
Search the configuration  
Use the Change Center  
Record WLST Scripts  
Change Console preferences  
Manage Console extensions  
Monitor servers

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

**Home Page**  
Information and Resources  
Helpful Tools  
Configure applications  
Configure GridLink for RAC Data Source  
Configure a Dynamic Cluster  
Recent Task Status  
Set your console preferences  
Oracle Enterprise Manager  
General Information  
Common Administration Task Descriptions  
Read the documentation  
Ask a question on My Oracle Support

**Domain Configurations**  
Domain  
Domain  
Environment  
Servers  
Clusters  
Server Templates  
Migratable Targets  
Coherence Clusters  
Machines  
Virtual Hosts  
Work Managers  
Startup And Shutdown Classes  
Your Deployed Resources  
Deployments  
Your Application's Security Settings  
Security Realms

**Services**  
Messaging  
JMS Servers  
Store-and-Forward Agents  
JMS Modules  
Path Services  
Bridges  
Data Sources  
Persistent Stores  
XML Registries  
XML Entity Caches  
Foreign JNDI Providers  
Work Contexts  
JCOM  
Mail Sessions  
FileT3  
JTA  
OSGi Frameworks

**Interoperability**  
WTC Servers  
Jolt Connection Pools

**Diagnostics**  
Log Files  
Diagnostic Modules  
Built-in Diagnostic Modules  
Diagnostic Images  
Request Performance  
Archives  
Context  
SNMP

**Charts and Graphs**  
Monitoring Dashboard

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**ORACLE WebLogic Server Administration Console 12c**

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

<input type="checkbox"/>	Name ↕	Persistent Store	Target	Current Target	Health
<input type="checkbox"/>	BamAlertEngineJmsServer	BamAlertEngineJmsFileStore	BAMServer	BAMServer	
<input type="checkbox"/>	BamCQServiceJmsServer_BAMServer	BamCQServiceJmsFileStore_BAMServer	BAMServer	BAMServer	
<input type="checkbox"/>	BamReportCacheJmsServer	BamReportCacheJmsFileStore	BAMServer	BAMServer	
<input type="checkbox"/>	BamServerJmsServer_BAMServer	BamServerJmsFileStore_BAMServer	BAMServer	BAMServer	
<input type="checkbox"/>	BPMJMServer	BPMJMSFileStore	SOAServer	SOAServer	OK
<input type="checkbox"/>	SOAJMServer	SOAJMSFileStore	SOAServer	SOAServer	OK
<input type="checkbox"/>	UMSJMServer_auto_1	UMSJMSFileStore_auto_1	BAMServer	BAMServer	OK
<input type="checkbox"/>	UMSJMServer_auto_2	UMSJMSFileStore_auto_2	SOAServer	SOAServer	OK

New Delete Showing 1 to 8 of 8 Previous | Next

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20. Please provide the below Name for JMS Server and select the file persistent store as below→Next

The screenshot displays the Oracle WebLogic Server Administration Console 12c interface. The main window is titled "Create a New JMS Server" and is currently at the "JMS Server Properties" step. The "Name" field is populated with "FCUBS.JMSServer". The "Persistent Store" dropdown is set to "SOAJMSFileStore". The left sidebar shows the "Domain Structure" tree with "AlphaDomain" expanded, and "JMS Servers" selected. Below the tree is the "System Status" section, which shows the health of running servers: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (2). The bottom of the console displays the version "WebLogic Server Version: 12.1.3.0.0" and copyright information.



21. Select the target as SOA Server →Finish



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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

### 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: SOAServer

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 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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10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=JmsServerJMServerTablePage

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Home > AlphaDomain > Summary of JMS Servers

Messages

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

**Summary of JMS Servers**

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

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

Customize this table

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

New Delete Showing 1 to 9 of 9 Previous | Next

Name	Persistent Store	Target	Current Target	Health
BamAlertEngine.JmsServ	BamAlertEngine.JmsFileStore	BAMServer	BAMServer	
BamCQService.JmsServer_BAMServer	BamCQService.JmsFileStore_BAMServer	BAMServer	BAMServer	
BamReportCache.JmsServer	BamReportCache.JmsFileStore	BAMServer	BAMServer	
BamServer.JmsServer_BAMServer	BamServer.JmsFileStore_BAMServer	BAMServer	BAMServer	
BPM.JMServer	BPM.JMSFileStore	SOAServer	SOAServer	✓ OK
FCUBS.JMServer	SOA.JMSFileStore	SOAServer	SOAServer	✓ OK
SOA.JMServer	SOA.JMSFileStore	SOAServer	SOAServer	✓ OK
UMS.JMServer_auto_1	UMS.JMSFileStore_auto_1	BAMServer	BAMServer	
UMS.JMServer_auto_2	UMS.JMSFileStore_auto_2	SOAServer	SOAServer	✓ OK

New Delete Showing 1 to 9 of 9 Previous | Next

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4. Go back to Console → JMS Modules → New

soa-infra (SOA Instruct... x) FC1211QAR2 (Oracle Web... x) Home Page - AlphaDoma... x dev\_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=HomePage1

**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

**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...**  
Search the configuration  
Use the Change Center  
Record WLST Scripts  
Change Console preferences  
Manage Console extensions  
Monitor servers

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

**Home Page**  
Information and Resources  
Helpful Tools  
Configure applications  
Configure GridLink for RAC Data Source  
Configure a Dynamic Cluster  
Recent Task Status  
Set your console preferences  
Oracle Enterprise Manager  
General Information  
Common Administration Task Descriptions  
Read the documentation  
Ask a question on My Oracle Support

**Domain Configurations**  
Domain  
Domain  
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Servers  
Clusters  
Server Templates  
Migratable Targets  
Coherence Clusters  
Machines  
Virtual Hosts  
Work Managers  
Startup And Shutdown Classes  
Your Deployed Resources  
Deployments  
Your Application's Security Settings  
Security Realms

**Services**  
Messaging  
JMS Servers  
Store-and-Forward Agents  
JMS Modules  
Path Services  
Bridges  
Data Sources  
Persistent Stores  
XML Registries  
XML Entity Caches  
Foreign JNDI Providers  
Work Contexts  
JCOM  
Mail Sessions  
FileT3  
JTA  
OSGi Frameworks

**Interoperability**  
WTC Servers  
Jolt Connection Pools

**Diagnostics**  
Log Files  
Diagnostic Modules  
Built-in Diagnostic Modules  
Diagnostic Images  
Request Performance  
Archives  
Context  
SNMP

**Charts and Graphs**  
Monitoring Dashboard

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10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=JmsModulesTabPage

Windows taskbar showing various application icons and system tray with time 11:44 AM 6/23/2015.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Summary of JMS Modules' page. At the top of this page, there is a 'New' button circled in red, next to a 'Delete' button. Below this is a table of JMS Modules with columns for 'Name' and 'Type'. The table lists several modules, all of which are of type 'System'. At the bottom of the table, there are 'New' and 'Delete' buttons. The left sidebar contains navigation menus for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The bottom of the console shows the version information: 'WebLogic Server Version: 12.1.3.0.0'.



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

soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Create JMS System Modu... x dev\_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?CreateJMSSystemModulePortletreturnTo=jmsModulesTablePage&jmsModulesTablePortletName= - Google

**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 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

**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 JMS system modules
- Configure JMS servers

---

**System Status**

**Health of Running Servers**

<div style="width: 10px; height: 10px; background-color: #cccccc; border: 1px solid #000;"></div>	Failed (0)
<div style="width: 10px; height: 10px; background-color: #ff0000; border: 1px solid #000;"></div>	Critical (0)
<div style="width: 10px; height: 10px; background-color: #ffcc00; border: 1px solid #000;"></div>	Overloaded (0)
<div style="width: 10px; height: 10px; background-color: #ff9900; border: 1px solid #000;"></div>	Warning (0)
<div style="width: 10px; height: 10px; background-color: #006600; border: 1px solid #000;"></div>	OK (2)

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soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Create JMS System Modu... x dev\_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?CreateJMSSystemModulePortlet\_actionOverrides=/com/bee/console/actions/jms/modules/syste - Google

**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

**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 JMS system modules  
Configure JMS servers

**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 > 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

The screenshot shows the Oracle WebLogic Server Administration Console 12c interface. The browser address bar displays the URL: 10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=JMSSystemModuleConfigGeneralPage&handle=com.bea.console.han. The page title is "Settings for FCUBSJMSModule".

On the left side, there are several panels:
 

- Change Center:** View changes and restarts. Configuration editing is enabled.
- Domain Structure:** A tree view showing the hierarchy: AlphaDomain > Environment > Servers > Clusters > Coherence Clusters > Machines > Virtual Hosts > Work Managers > Startup and Shutdown Classes > Deployments > Services > Messaging > JMS Servers > Store-and-Forward Agents.
- How do I...:** No task help found.
- System Status:** Health of Running Servers: Failed (0), Critical (0), Overloaded (0), Warning (0), OK (2).

The main content area shows the "Settings for FCUBSJMSModule" page. It has tabs for Configuration, Subdeployments, Targets, Security, and Notes. The "Configuration" tab is active. The page contains the following information:
 

- 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...](#)

 Below this is a "Summary of Resources" section with a table. The table has columns: Name, Type, JNDI Name, Subdeployment, and Targets. The table is currently empty, displaying "There are no items to display".

At the bottom of the console, the version information is displayed: WebLogic Server Version: 12.1.3.0.0. Copyright (c) 1996-2014, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.



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



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10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=JmsCreateSystemModuleEntity&JmsCreateSystemModuleEntityPortlet

ORACLE WebLogic Server Administration Console 12c

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

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

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

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

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

Create a New JMS System Module Resource  
Back Next Finish Cancel

Choose the type of resource you want to create.

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

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

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

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The screenshot displays the Oracle WebLogic Server Administration Console 12c interface. The main content area is titled "Create a New JMS System Module Resource" and contains the following configuration details:

- Connection Factory Properties:** The current module is FCUBSJMSModule.
- Name:** UBSConnectionfactory
- JNDI Name:** jndi/FCUBSConnectionfactory
- Subscription Sharing Policy:** Exclusive
- Client ID Policy:** Restricted
- Maximum Messages per Session:** 10
- XA Connection Factory Enabled:**

The left sidebar shows the "Domain Structure" for AlphaDomain, including Environment, Servers, Clusters, Coherence Clusters, Machines, Virtual Hosts, Work Managers, Startup and Shutdown Classes, Deployments, Services, Messaging, JMS Servers, and Store-and-Forward Agents. Below this is the "How do I..." section with various configuration tasks, and the "System Status" section showing the health of running servers (Failed: 0, Critical: 0, Overloaded: 0, Warning: 0, OK: 2).

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

soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Create a New JMS System... x dev\_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

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

**Create a New JMS System Module Resource**

Back Next Finish **Advanced Targeting** Cancel

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

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

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

**Targets :**

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

Back Next Finish **Advanced Targeting** 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 quotas for destinations
- Configure JMS templates
- Configure destination keys
- Configure topics
- Configure queues
- Configure connection factories
- Configure uniform distributed topics
- Configure uniform distributed queues
- Configure foreign servers
- Configure JMS SAF

**System Status**  
Health of Running Servers

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

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

What targets do you want to assign to this subdeployment?

Targets:

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

**System Status**  
Health of Running Servers

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

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**ORACLE WebLogic Server Administration Console 12c**

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

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

**Create a New Subdeployment**

OK Cancel

**Subdeployment Properties**

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

**Subdeployment Name:** FCUBS

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

**System Status**

**Health of Running Servers**

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

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**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:

Servers	
<input type="checkbox"/>	SOAServer

JMS Servers	
<input type="checkbox"/>	BPMJMServer
<input checked="" type="checkbox"/>	FCUBSJMServer
<input type="checkbox"/>	SOAJMServer
<input type="checkbox"/>	UMSJMServer_auto_2

Back Next Finish Cancel

#### Change Center

**View changes and restarts**

Pending changes exist. They must be activated to take effect. You may activate them now. Otherwise, they will be automatically activated when you next modify, add or delete items in this domain.

Activate Changes

Undo All Changes

#### Domain Structure

AlphaDomain

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

#### How do I...

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

#### System Status

Health of Running Servers

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

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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

**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...**  
No task help found.

**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.  
Connection factory created successfully.

**Settings for FCUBSJMSModule**  
Configuration Subdeployments Targets Security Notes

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

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

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

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

[Customize this table](#)

**Summary of Resources**  
New Delete Showing 1 to 1 of 1 Previous | Next

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

New Delete Showing 1 to 1 of 1 Previous | Next

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

Messages

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

Settings for FCUBSJMSModule

Configuration Subdeployments Targets Security Notes

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

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

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

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

Customize this table

Summary of Resources

New Delete Showing 1 to 1 of 1 Previous | Next

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

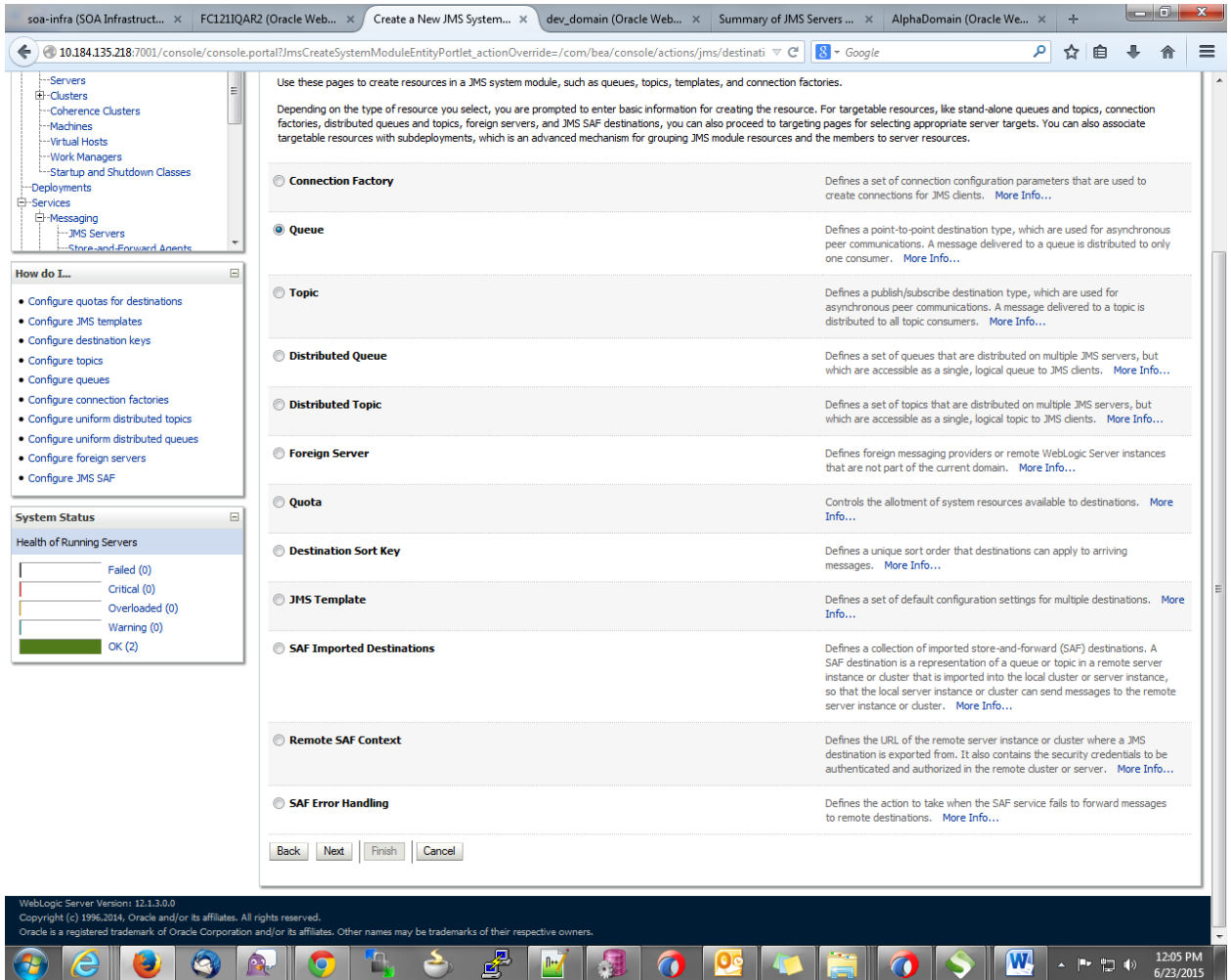
New Delete Showing 1 to 1 of 1 Previous | Next

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- 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

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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

**Create a New JMS System Module Resource**

Back Next Finish Cancel

**JMS Destination Properties**

The following properties will be used to identify your new Queue. The current module is FCUBSJMSModule.

\* Indicates required fields

\* **Name:** NOTIFY\_DEST\_QUEL

**JNDI Name:** jms/NOTIFY\_DEST\_QUEUE

**Template:** None

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

**System Status**

**Health of Running Servers**

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

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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
<input type="radio"/> BPHJMServer
<input checked="" type="radio"/> FCUBSJMServer
<input type="radio"/> SOAJMServer
<input type="radio"/> UMSJMSserver_auto_2

Back Next Finish Cancel

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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	FCUBSJMSServer
NOTIFY_DEST_QUEUE	Queue	jms/NOTIFY_DEST_QUEUE	FCUBS	FCUBSJMSServer

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

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10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=AppDeploymentsControlPage

	DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
	em	Active	OK	Enterprise Application	AdminServer	400
	FCUBSAppJUT (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	Installed		Resource Adapter		332
	MQSeriesAdapter	Active	OK	Resource Adapter	SOAServer	327
	MSMQAdapter	Installed		Resource Adapter		334
	OAAPredictionService	Active	OK	Enterprise Application	SOAServer	100
	OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
	OracleBamAdapter	Installed		Resource Adapter		329
	OracleBPMBACServerApp	Active	OK	Enterprise Application	SOAServer	384
	OracleBPMComposerRolesApp	Active	OK	Enterprise Application	SOAServer	382
	OracleBPMProcessRolesApp	Active	OK	Enterprise Application	SOAServer	381
	OracleBPMWorkspace	Active	OK	Enterprise Application	SOAServer	383
	SAPAdapter	Installed		Resource Adapter		335
	SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
	soa-infra	Active	OK	Enterprise Application	SOAServer	350
	soa-webapps	Active	OK	Enterprise Application	SOAServer	360

10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=AppApplicationDispatcherPage&AppApplicationDispatcherPage=AppApplicationDispatcherPage&Portlethandle=com.bea.console.handlers.AppDeploymentHandle"com.bea:Name=JmsAdapter,Type=AppDeployment"

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10.184.135.218:7001/console/console.portal?\_pageLabel=ConnectorApplicationConfigurationOutboundConnectionPoolPage&\_nfpb=true&v - Google

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

**Settings for JmsAdapter**

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

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

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

**Outbound Connection Pool Configuration Table**

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/EDNxuDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/aqjms/EDNxuTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/aqjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/aqjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/foranmq/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/jms/aiaB2BQueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/jms/aiaErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/pramat/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/sunmq/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/webspheremq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/wls/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/wls/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/wls/EDNxuDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/wls/EDNxuTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/wls/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
[-] eis/wls/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory

System Status

Health of Running Servers

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

12:09 PM 6/23/2015

soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Create a New Outbound ... x dev\_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=ConnectorCreateOutboundConnectionPage

**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	
<input type="radio"/>	Outbound Connection Group
<input checked="" type="radio"/>	oracle.tip.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)

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Windows taskbar showing icons for Internet Explorer, Firefox, Chrome, and other applications. System tray shows the time as 12:12 PM on 6/23/2015.

soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Create a New Outbound ... x dev\_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?Connector>CreateOutboundConnectionPortlet\_actionOverride=/com/bee/console/actions/conn

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

**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:

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)

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10.184.135.218:7001/console/console.portal?\_pageLabel=ConnectorApplicationConfigurationOutboundConnectionPoolPage&\_nfpb=true&v

list by connection factory interface and the instances are listed by their JNDI names. Expand a group to obtain configuration information for a Connection Pool instance within an Outbound Connection Pool group. Click the name of a group or instance to configure it. Automatically generated Connection Pools are not displayed in the table below.

### Outbound Connection Pool Configuration Table

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/aqms/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqms/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqms/EDNxuDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqms/EDNxATopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/foranmq/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiab2BQueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiabErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jramat/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/Queue/Notif	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/webspheremq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxuDurableTopic	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

New Delete Showing 1 to 1 of 1 Previous | Next

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

12:14 PM  
 6/23/2015

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

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10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=ConnectorOutboundConnectionConfigPropertiesPage&ConnectorOu... - Google

**ORACLE WebLogic Server Administration Console 12c**

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

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

**Settings for oracle.tip.adapter.jms.JJmsConnectionFactory**

General **Properties** Transaction Authentication Connection Pool Logging

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

**Outbound Connection Properties**

Save Showing 1 to 7 of 7 Previous | Next

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

Save Showing 1 to 7 of 7 Previous | Next

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**ORACLE WebLogic Server Administration Console 12c**

Welcome, admin | Connected to: AlphaDomain

Home > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of JMS Modules > FCUBS3MSModule > Summary of JMS Modules > Summary of Deployments > JmsAdapter

**Messages**

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

**Settings for oracle.tip.adapter.jms.DmsConnectionFactory**

General | **Properties** | Transaction | Authentication | Connection Pool | Logging

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

**Outbound Connection Properties**

Save | Showing 1 to 7 of 7 | Previous | Next

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

Save | Showing 1 to 7 of 7 | Previous | Next

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

soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Summary of Deployment... x dev\_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=AppDeploymentsControlPage

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

Customize this table

Deployments

Install Update Delete Start Stop

Showing 1 to 46 of 46 Previous Next

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

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)

Highlight All Match Case

12:19 PM 6/23/2015

soa-infra (SOA Infrastruct... x FC1211QAR2 (Oracle Web... x Update Application Assist... x dev\_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?AppApplicationUpdatePortletreturnTo=AppDeploymentsControlPage&AppDeploymentsContro... Google

**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 > FCUBSJMSModule > Summary of JMS Modules > Summary of Deployments > JmsAdapter > Summary of Deployments

**Update Application Assistant**

Back Next Finish Cancel

**Locate new deployment files**

You have elected to update the JmsAdapter application.

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

**Deployment plan path:** /scratch/app/oracle/product/fmw12c3/soa/soa/connectors/Plan1.xml [Change Path](#)

Redeploy this application using the following deployment files:

**Source path:** /scratch/app/oracle/product/fmw12c3/soa/soa/connectors/JmsAdapter.rar [Change Path](#)

**Deployment plan path:** /scratch/app/oracle/product/fmw12c3/soa/soa/connectors/Plan1.xml [Change Path](#)

Back Next Finish Cancel

**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

<span style="color: red;">█</span>	Failed (0)
<span style="color: orange;">█</span>	Critical (0)
<span style="color: yellow;">█</span>	Overloaded (0)
<span style="color: lightgreen;">█</span>	Warning (0)
<span style="color: green;">█</span>	OK (2)

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12:20 PM 6/23/2015

The screenshot shows the Oracle WebLogic Server Administration Console 12c interface. The main content area is titled "Summary of Deployments" and contains a table of installed applications and modules. The table has the following columns: Name, State, Health, Type, Targets, and Deployment Order. The table lists various adapters and applications, including AqAdapter, b2bui, BamComposer, BamCQService, BamServer, BPMComposer, coherence-transaction-rar, CoherenceAdapter, DbAdapter, DefaultToDoTaskFlow, and DMS Application. The table also shows the deployment order for each application.

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

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

soa-infra (SOA Infras... x Login - Oracle Enter... x Settings for FtpAdap... x AmendRetailLoanCo... x Settings for javax.res... x AlphaDomain (OracL... x New Tab x +

10.184.135.218:7001/console/console.portal?\_pageLabel=ConnectorApplicationConfigurationOutboundConnectionPoolPage&\_nfpb=true&v Google

**ORACLE WebLogic Server Administration Console 12c**

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

Home > Summary of Deployments > FtpAdapter

**Settings for FtpAdapter**

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

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

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

**Outbound Connection Pool Configuration Table**

New Delete Showing 1 to 1 of 1 Previous | Next

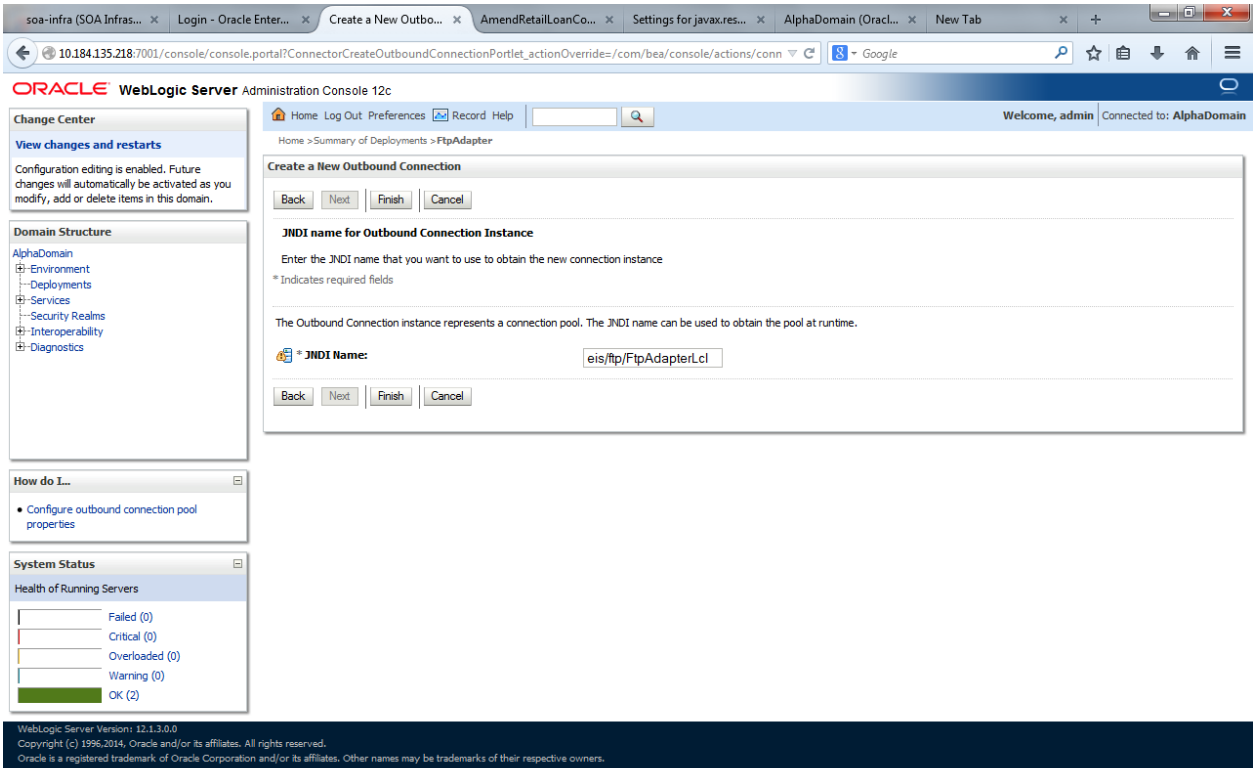
Groups and Instances	Connection Factory Interface
javax.resource.cdi.ConnectionFactory	javax.resource.cdi.ConnectionFactory
eis/ftp/CoherenceHAftpAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpAdapterLcd	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpAdapter_VMS	javax.resource.cdi.ConnectionFactory
eis/ftp/FtpsAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/HAftpAdapter	javax.resource.cdi.ConnectionFactory
eis/ftp/HAftpAdapterDB2	javax.resource.cdi.ConnectionFactory
eis/ftp/HAftpAdapterMSSQL	javax.resource.cdi.ConnectionFactory
eis/ftp/LocalTransactionFtpAdapter	javax.resource.cdi.ConnectionFactory

New Delete Showing 1 to 1 of 1 Previous | Next

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eis/wls/Queue Highlight All Match Case

Windows taskbar showing icons for Internet Explorer, Firefox, Chrome, and other applications. System tray shows the time as 3:33 PM on 6/23/2015.



2) Click finish and save.

## 1.2.8 **BIP Interactive reports configuration**

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



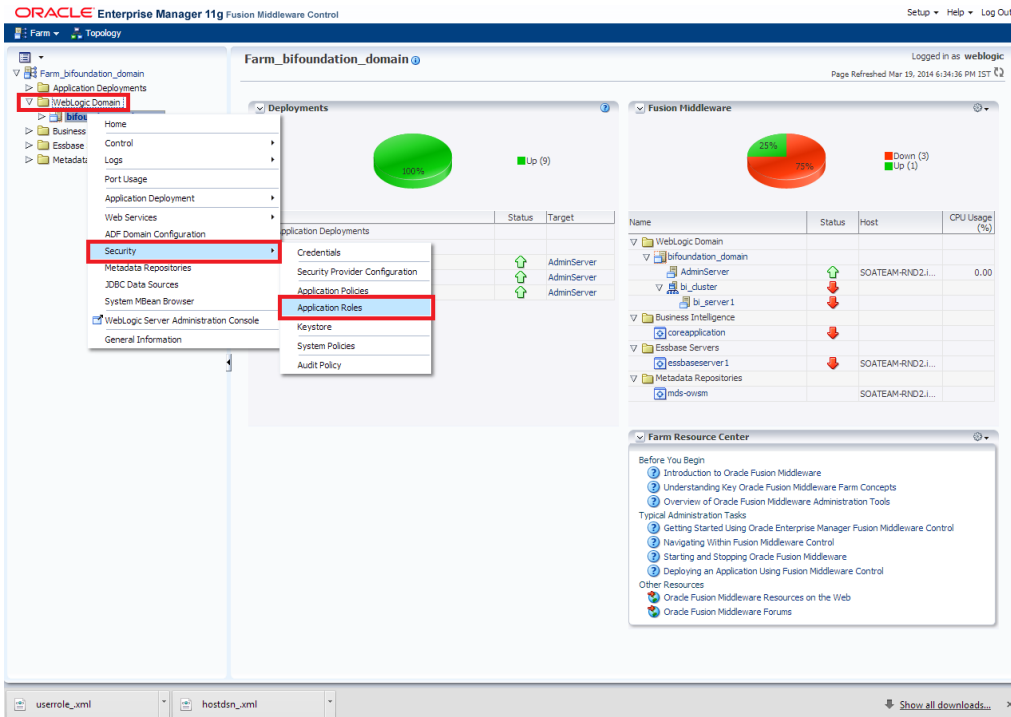
After adding, Navigate to security realms >myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Users' sub-tab is selected. Below the navigation tabs, there is a message: '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.' Below this message is a 'Customize this table' link and a table of users. The table has columns for 'Name', 'Description', and 'Provider'. The table shows 10 users, all with 'FCJCustomProvider' as the provider. The left navigation pane shows 'Security Realms' highlighted. The bottom of the console displays the version 'WebLogic Server Version: 10.3.6.0' and copyright information.

Name	Description	Provider
000ANT1	Default Admin User 1	FCJCustomProvider
1111IRM_3	Siveta	FCJCustomProvider
1111IRM_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
15299A03	Kumar	FCJCustomProvider
1M20862	BALA	FCJCustomProvider
20862A1	Bala	FCJCustomProvider

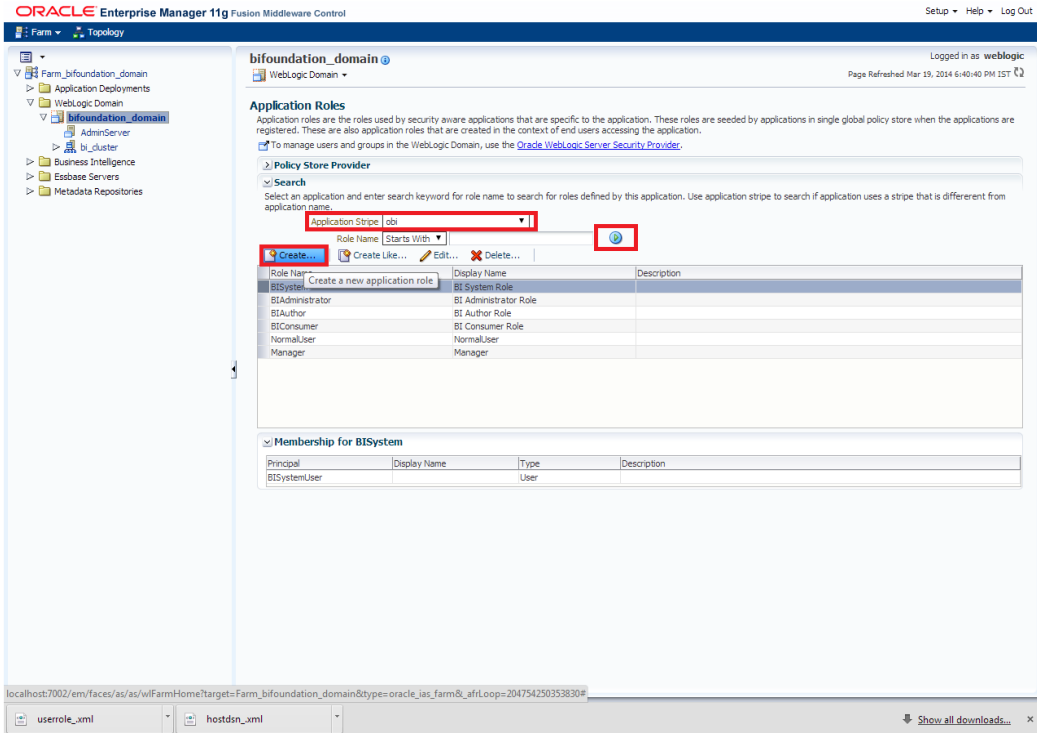
3) Login to the Enterprise Manager (em) <http://s:<hostname>:<port>/em>

- Right click on the domain(in which BI suite is installed) under the weblogic domain
- Go to security and then navigate to application roles



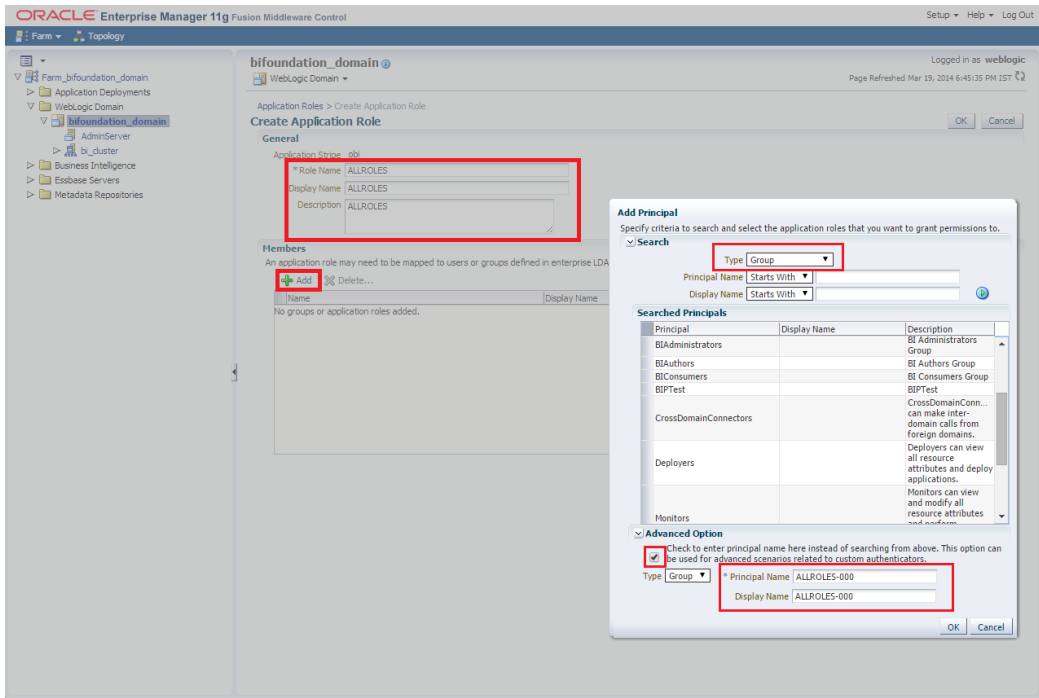
4) After navigating to next screen as in below screenshot,

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

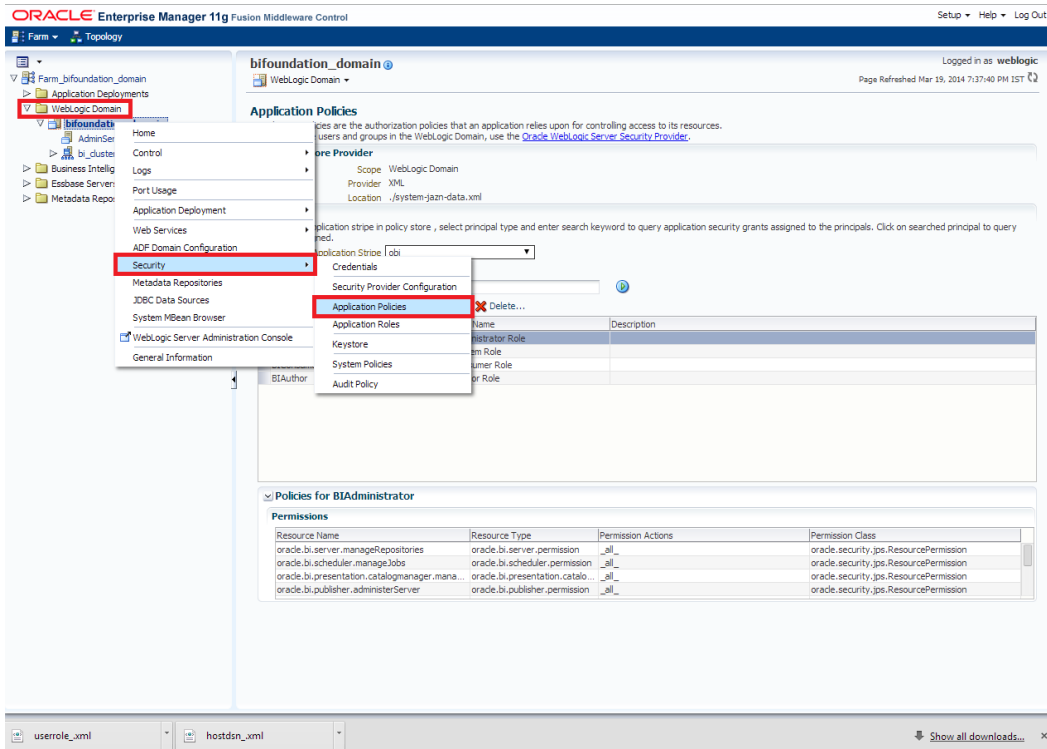


5) After navigating to next screen as in below screenshot,

- Enter the role name(mandatory), display name(optional), description(optional)
- Click on the Add button
- In the Add Principal pop up select type as “Group”
- In the advanced option check the checkbox and again select the type as “Group” below
  - Click on the Search button, if the roles are listed then select the roles like ALLROLES-000, ADMINROLE-000 from the list.
- or
- Enter the Principal Name (mandatory), which is actually the role present in the FCUBS (ex: ALLROLES-000, ADMINROLE-000), Display Name (optional).
- After completing click on OK button in pop up window and also in the screen.

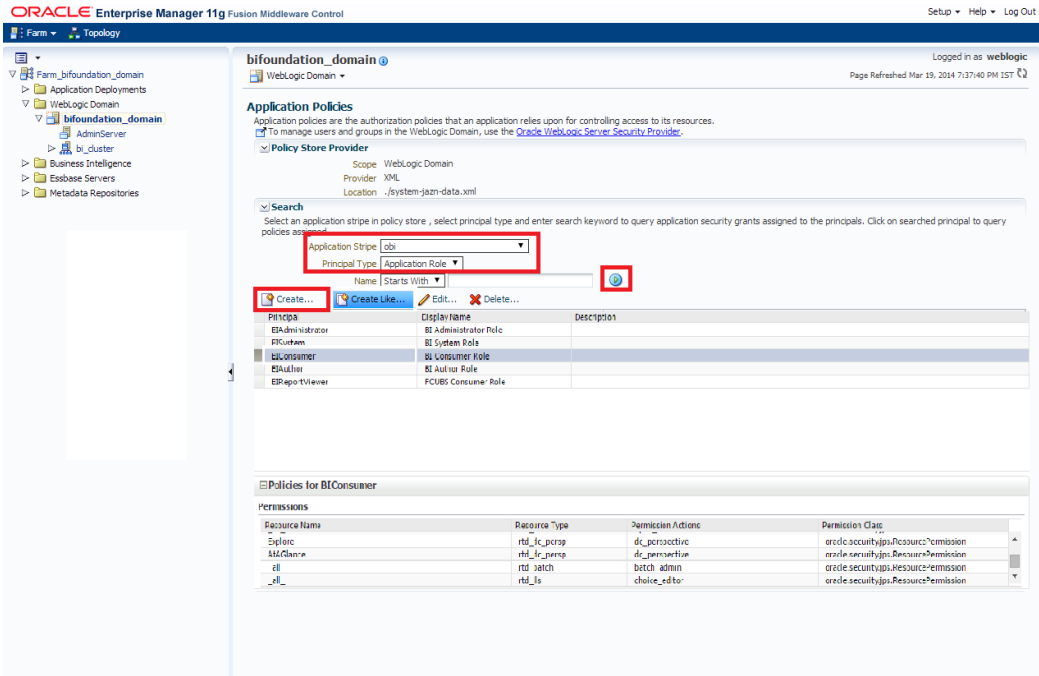


- 6) After getting information message like “A new role added successfully”, then again
- Right click on the domain(in which BI suite is installed) under the weblogic domain
  - Go to security and then navigate to application polices



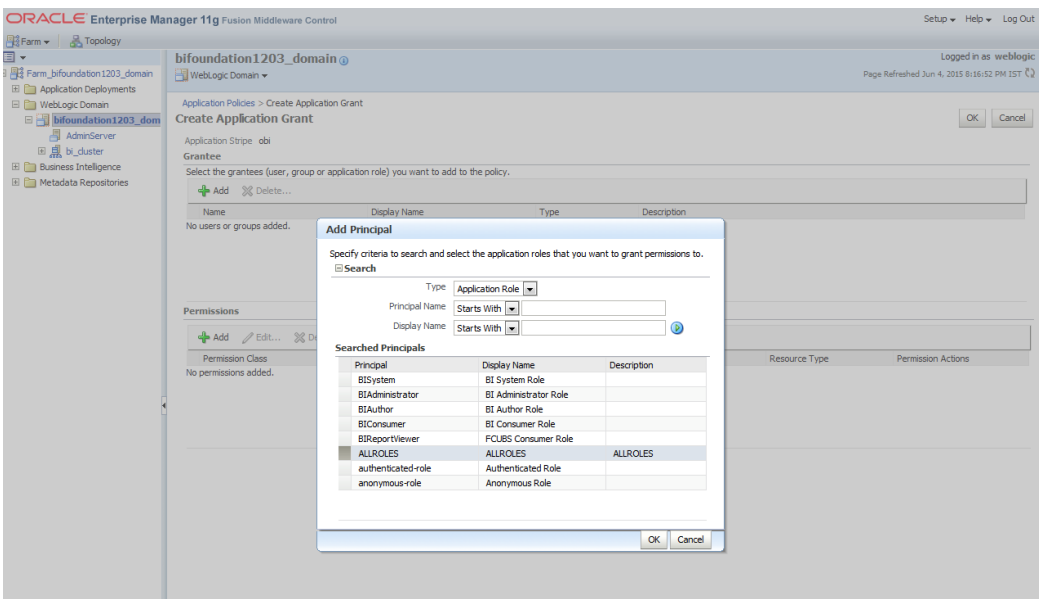
7) After navigating to next screen as per screen shot,

- 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.

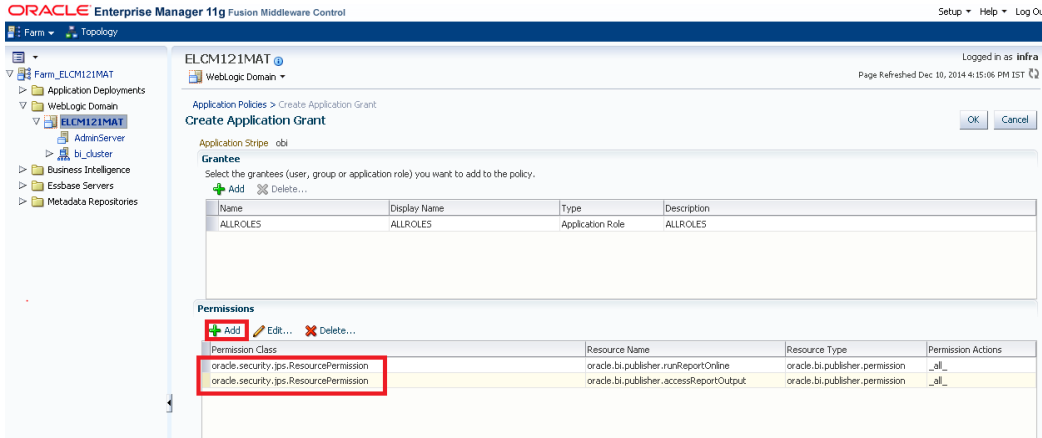


8) After navigating to next screen as per the screen shot,

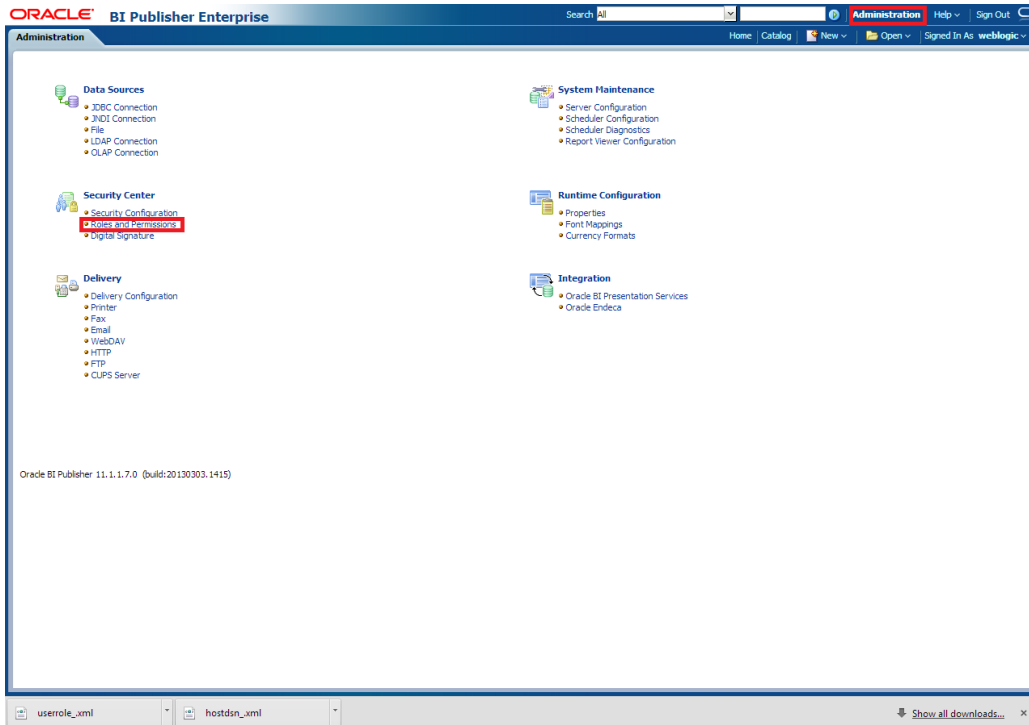
- Click on Add button , a new window “Add Principal” will be launched.
- Select Type as “Application Role” and click on the search button
- From the list select the role that has been created earlier in application role screen and click on OK button in pop up window and screen.



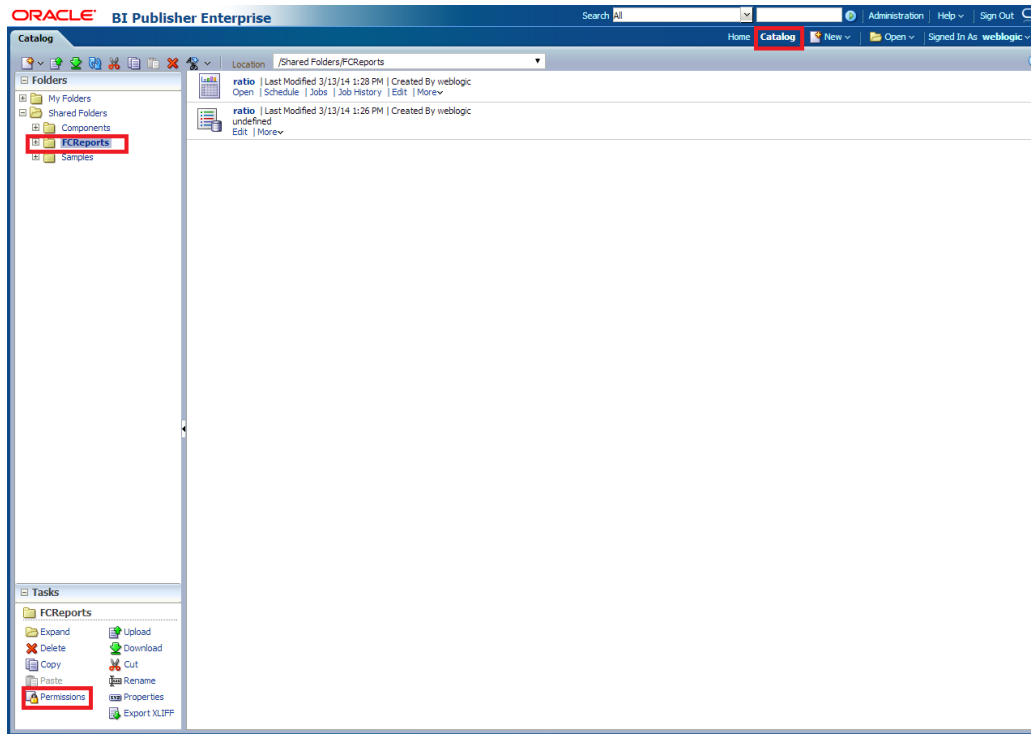
- Click Add button under Permissions and add the two permissions one by one as mentioned below.
  - oracle.bi.publisher.runReportOnline
  - oracle.bi.publisher.accessReportOutput



- 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.

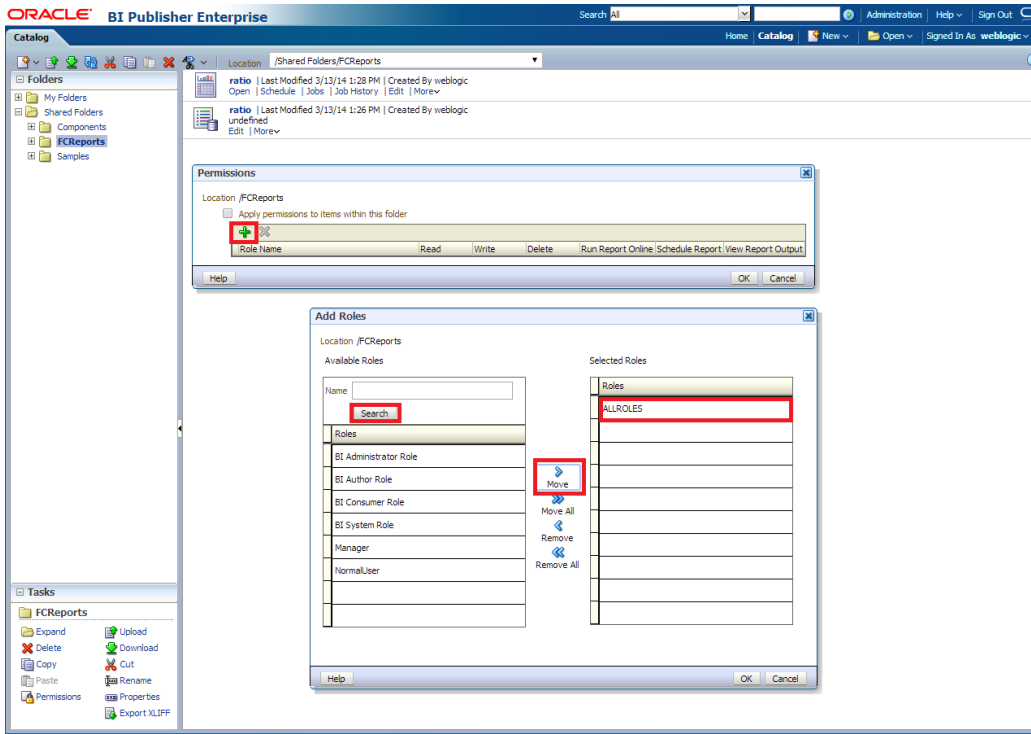


10) Then click on the Catalog , then on the folder that has been created , and then on permissions

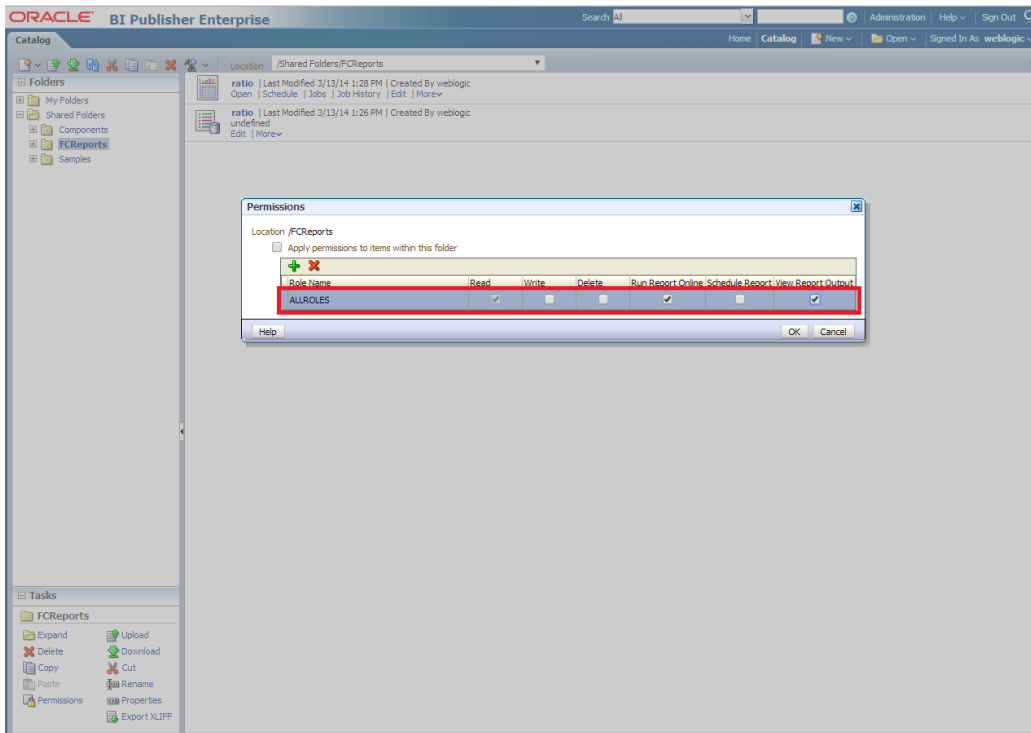


11) After clicking on the permissions, a new window will pop up, delete all the roles if any present on click of permissions, then click on Add button, and then click on search button in “Add Roles” window that is launched newly and select the role that has been created and click on move button and click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



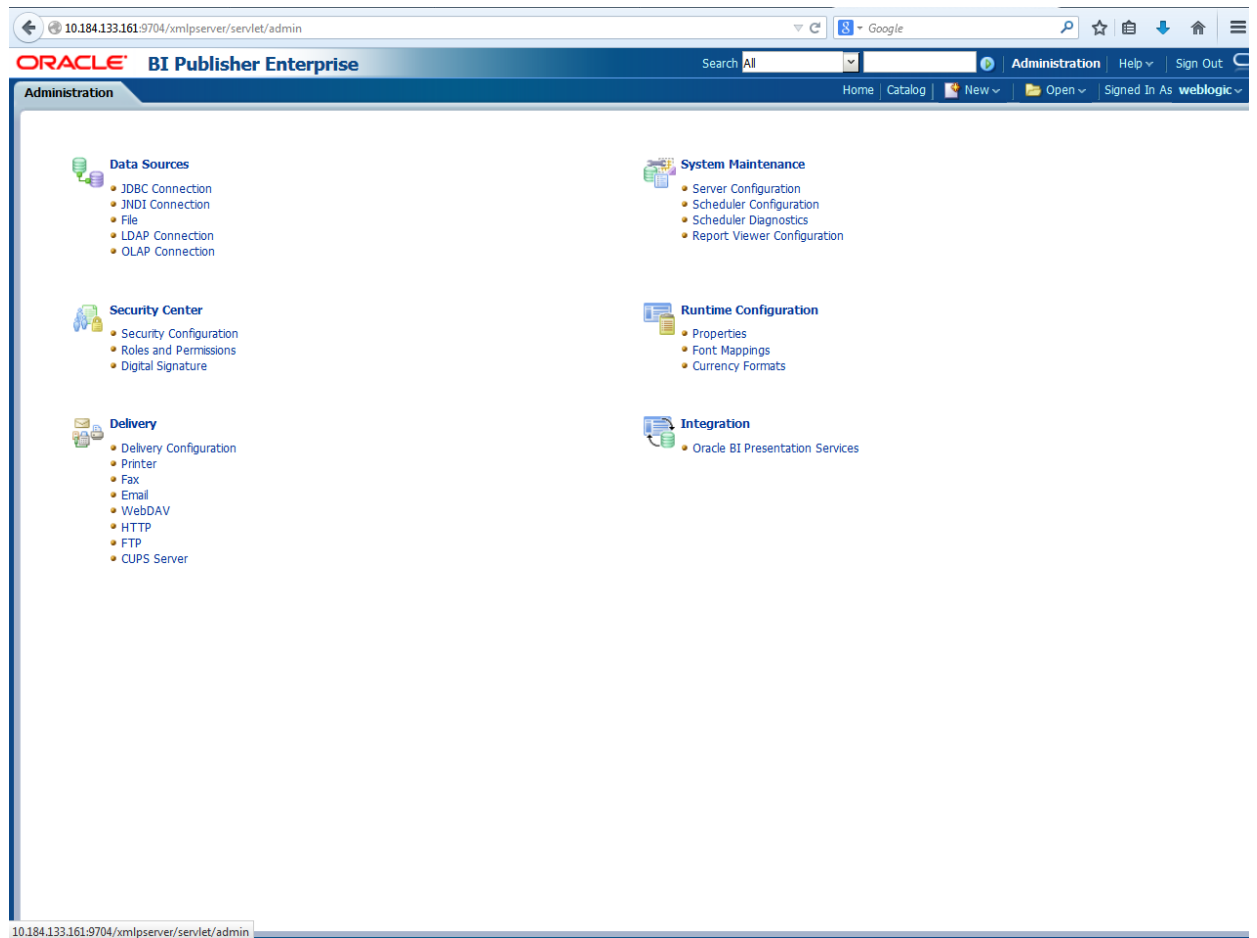
Now the reports in the folder will be accessed accordingly based on the roles.

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



**ORACLE BI Publisher Enterprise** Administration Help Sign Out

Search All Home Catalog New Open Signed In As weblogic

**Administration**

- Data Sources**
  - JDBC Connection
  - JNDI Connection
  - File
  - LDAP Connection
  - OLAP Connection
- Security Center**
  - Security Configuration
  - Roles and Permissions
  - Digital Signature
- Delivery**
  - Delivery Configuration
  - Printer
  - Fax
  - Email
  - WebDAV
  - HTTP
  - FTP
  - CUPS Server
- System Maintenance**
  - Server Configuration
  - Scheduler Configuration
  - Scheduler Diagnostics
  - Report Viewer Configuration
- Runtime Configuration**
  - Properties
  - Font Mappings
  - Currency Formats
- Integration**
  - Oracle BI Presentation Services

10.184.133.161:9704/xmloserver/serviet/adm/datasource/connectionhome?tvoc=idbc&\_sTkkn=6ec2d6c614e97518204

**ORACLE BI Publisher Enterprise** Administration Help Sign Out

Search All Home Catalog New Open Signed In As weblogic

Administration > JDBC

Data Sources

JDBC JNDI File LDAP OLAP

Add Data Source Previous 1-10 of 16 Next 5

Data Source Name	Connection String	Delete
dema	jdbc:oracle:thin:@10.184.149.52:1521:SOADB	
FCI202UBS	jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW	
FCI21DEV	jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW	
FCBIP	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCOB121DEV	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCOB121UT	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCUBS1203	jdbc:oracle:thin:@10.184.132.137:1521:FCPATCH2	
FCUBS121	jdbc:oracle:thin:@wlf00aew:1521:ORFC12C	
FCUBS12C	jdbc:oracle:thin:@10.184.132.172:1521:FCUBS12C	
fcubsvf1202	jdbc:oracle:thin:@10.184.149.52:1521:SOADB	

Add Data Source Previous 1-10 of 16 Next 5

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

**ORACLE BI Publisher Enterprise**

Administration > JDBC > Add Data Source

Apply Cancel

**General**

TIP Please make sure to install the required JDBC driver classes.  
 TIP With Oracle Fusion Middleware Security Model, select the Use System User checkbox to use the BI System User for your BI Server Database Connection.

\* Data Source Name: FCSOA  
 \* Driver Type: Oracle 11g  
 \* Database Driver Class: oracle.jdbc.OracleDriver  
 (Example: oracle.jdbc.OracleDriver)  
 \* Connection String: jdbc:oracle:thin:@//ofss222783.in.oracle.com:1521/FCUBSDEV121

Use System User  
 \* Username: DEV12C\_SOAINFRA  
 Password:   
 Pre Process Function:   
 Post Process Function:   
 Use Proxy Authentication  
 Test Connection

**Backup Data Source**

TIP To enable access to a backup data source, please check the Use Backup Data Source checkbox and enter the necessary connection information.

Use Backup Data Source  
 Connection String:   
 Username:   
 Password:   
 Test Connection

- Add the fcubs roles to allowed Roles under security

**ORACLE BI Publisher Enterprise**

Administration > JDBC > Add Data Source

Apply Cancel

**Security**

Allow Guest Access

Available Roles: BI Administrator Role, BI Author Role, BI Consumer Role, BI System Role, FCUBS Consumer Role  
 Allowed Roles: ALLROLES

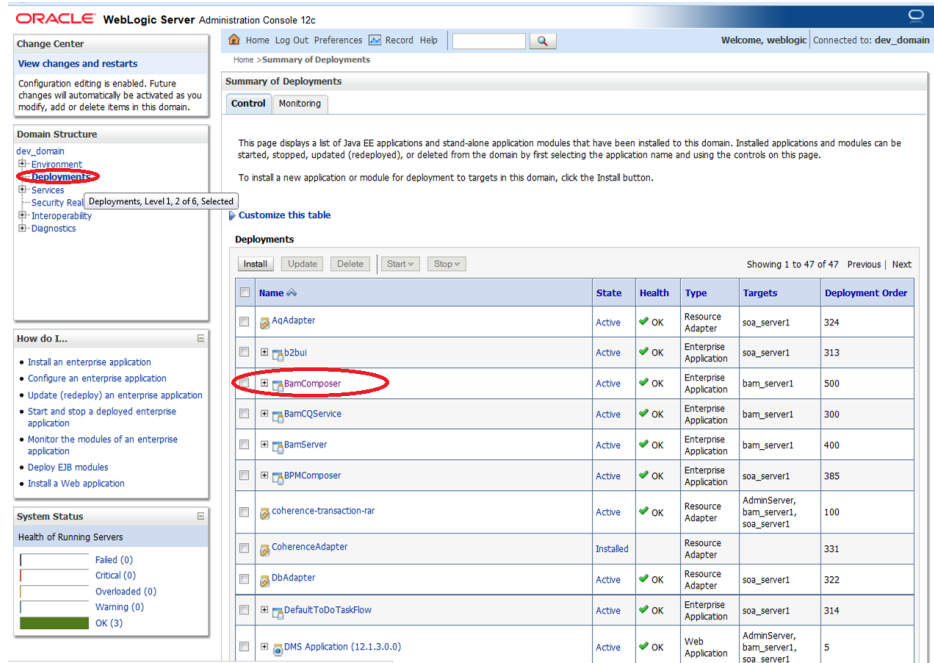
Use System User  
 \* Username: DEV12C\_SOAINFRA  
 Password:   
 Pre Process Function:   
 Post Process Function:   
 Use Proxy Authentication  
 Test Connection

- 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 FCUBS Schema and give the name as FCBIPBPEL

## 1.2.9 BAM Report Configuration settings

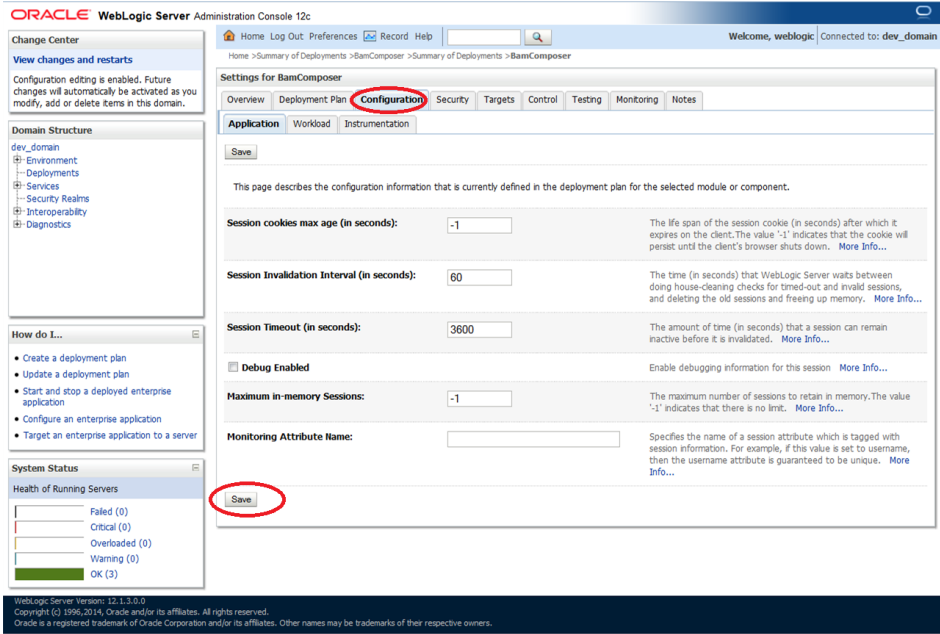
1. Generate a deployment plan for BAM Composer Application.
2. Login in to console <http://hostname:port/console>
3. Click on Deployments → click on BAM Composer



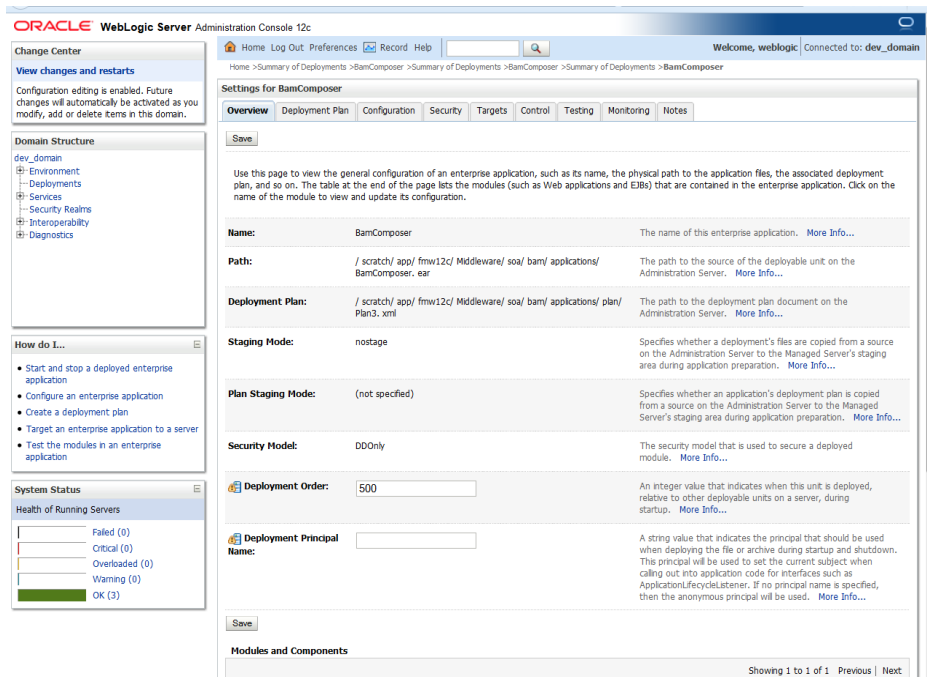
The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of Deployments' page. On the left sidebar, the 'Domain Structure' tree is visible, with 'Deployments' highlighted. The 'Deployments' table lists various applications, with 'BAMComposer' circled in red. The table columns include Name, State, Health, Type, Targets, and Deployment Order.

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

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.

When work completes

Force Stop Now

Stop, but continue servicing administration requests

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

## 8. Update the deployment plan.

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev\_domain

Summary of Deployments

Control Monitoring

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

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

Customize this table

Deployments

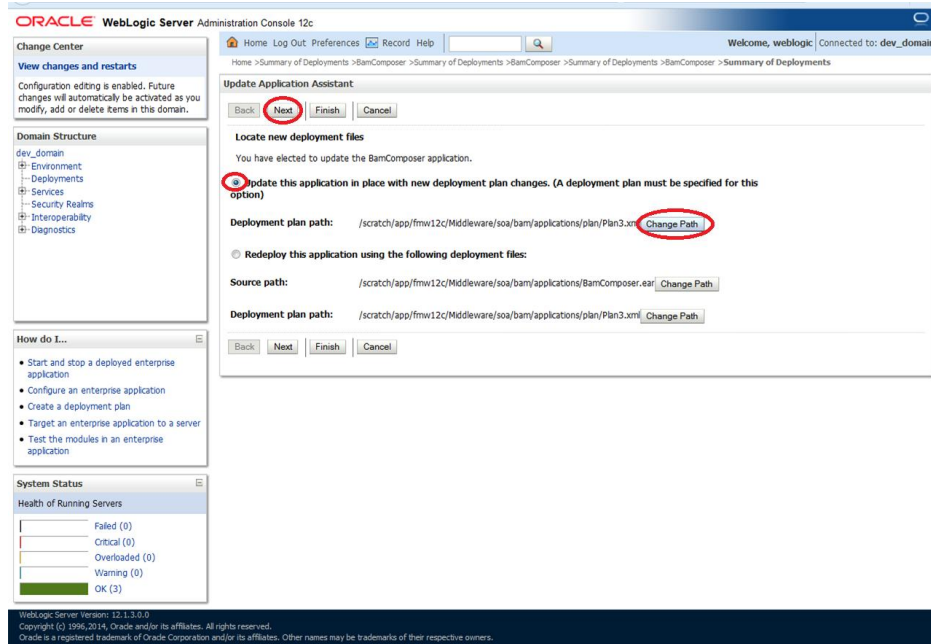
Install Update Delete Start Stop

Showing 1 to 47 of 47 Previous Next

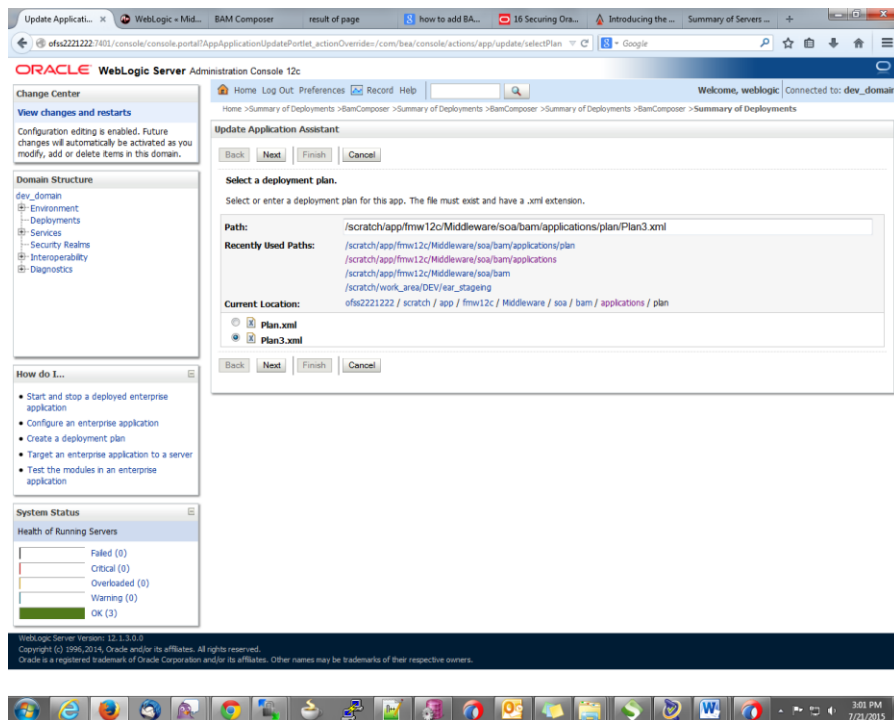
Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
db2bul	Active	OK	Enterprise Application	soa_server1	313
BAMComposer	Active	OK	Enterprise Application	bam_server1	500
BamCQService	Active	OK	Enterprise Application	bam_server1	300
BamServer	Active	OK	Enterprise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



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



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



**ORACLE WebLogic Server Administration Console 12c**

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

Messages

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

**Summary of Deployments**

Control | Monitoring

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

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

Customize this table

Deployments

Install | Update | Delete | Start v | Stop v

Showing 1 to 47 of 47 Previous | Next

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

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

**ORACLE WebLogic Server Administration Console 12c**

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

Messages

- Selected Deployments have been requested to stop.

**Summary of Deployments**

Control | Monitoring

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

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

Customize this table

Deployments

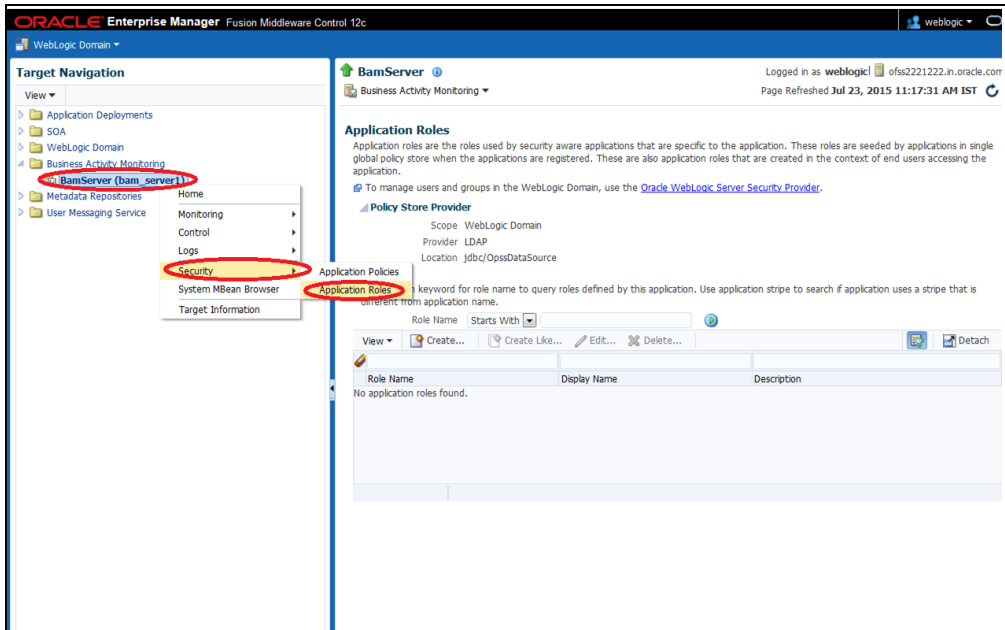
Install | Update | Delete | Start v | Stop v

Showing 1 to 48 of 48 Previous | Next

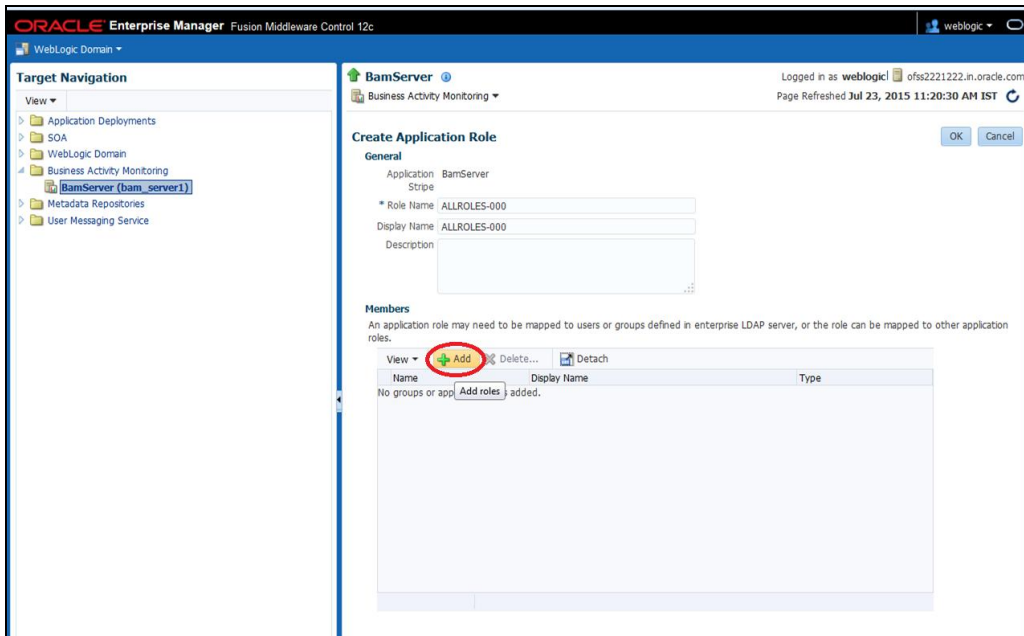
Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
b2bul	Prepared	OK	Enterprise Application	SOAServer	313
BamComposer	Prepared	OK	Enterprise Application	BAMServer	500
BamCQService	Active	OK	Enterprise Application	BAMServer	300
BamServer	Active	OK	Enterprise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

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

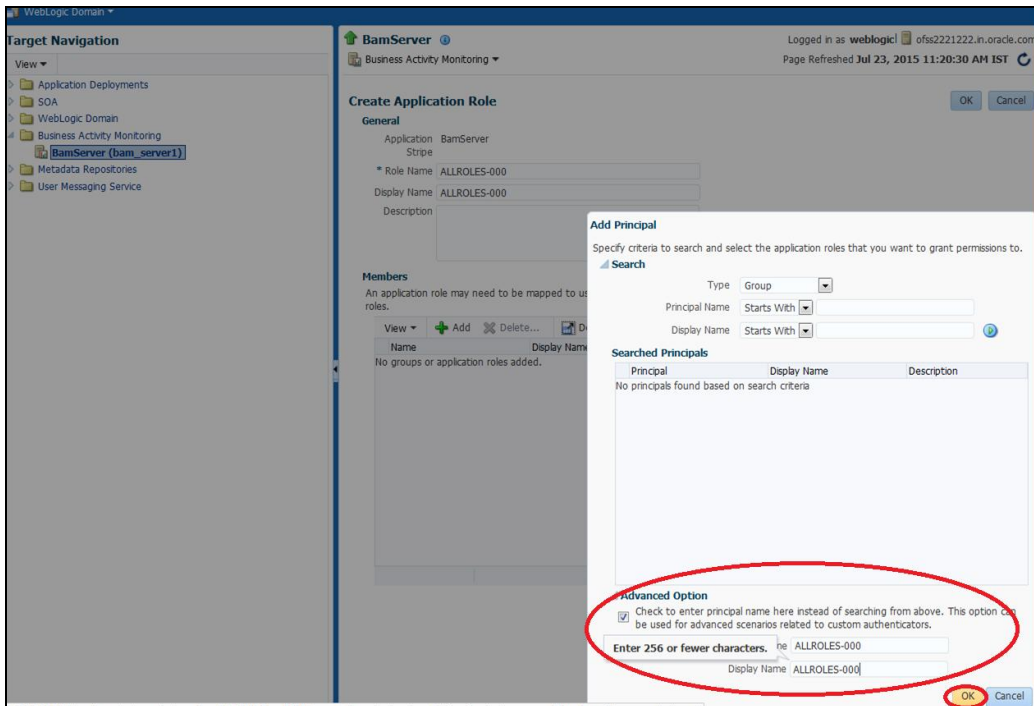
#### 14. Right Click on BAM Server→Security→Application Roles



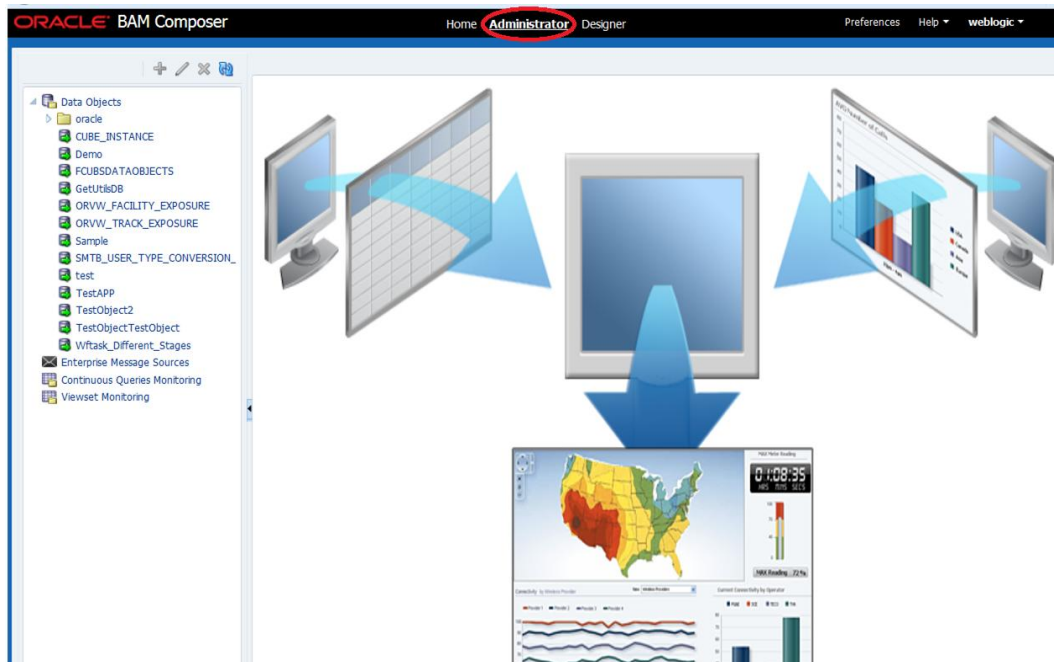
#### 15. Click on Create → create application role with ALL ROLES-000→Click on ADD button in the Members



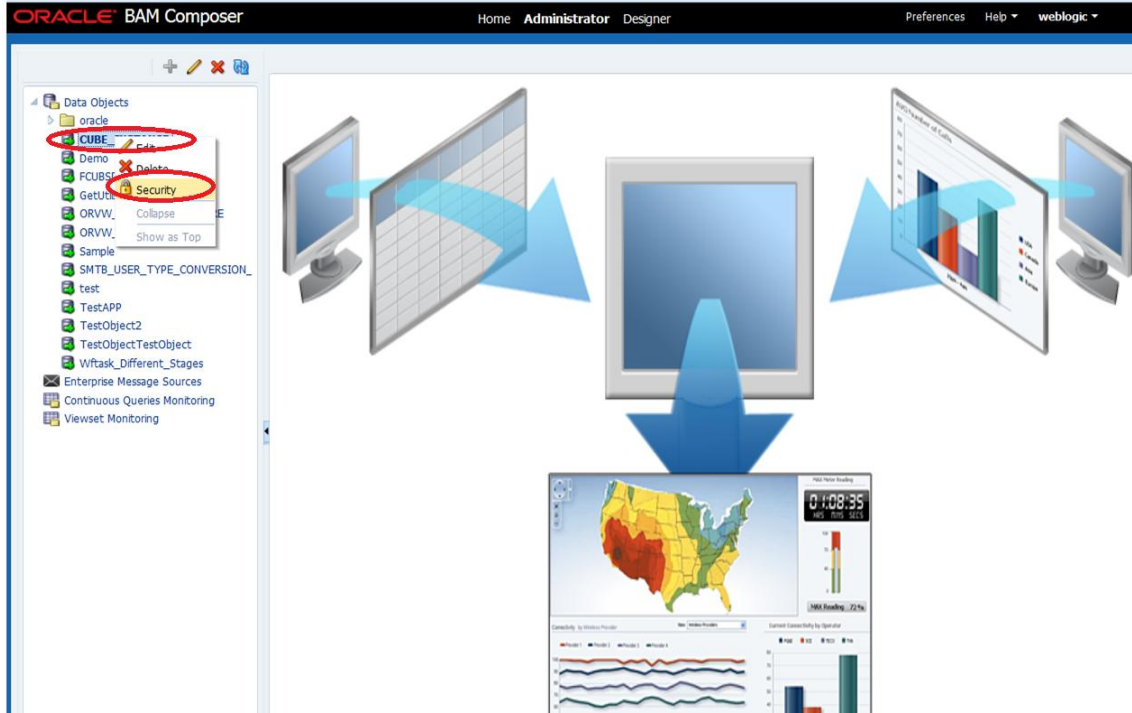
16. Select the Type as Group and add principle details be referring the below screen shot.



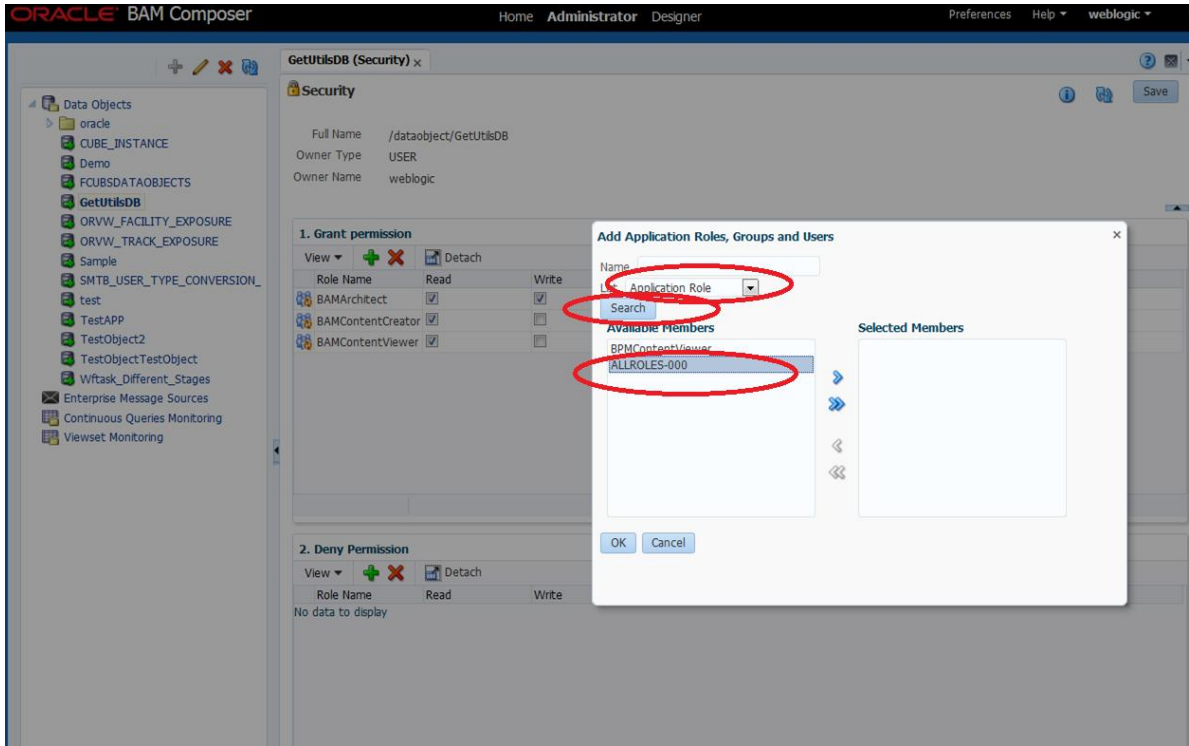
17. Login to BAM Composer → <http://hostname:port/bam/composer>--> Click on Administrator.



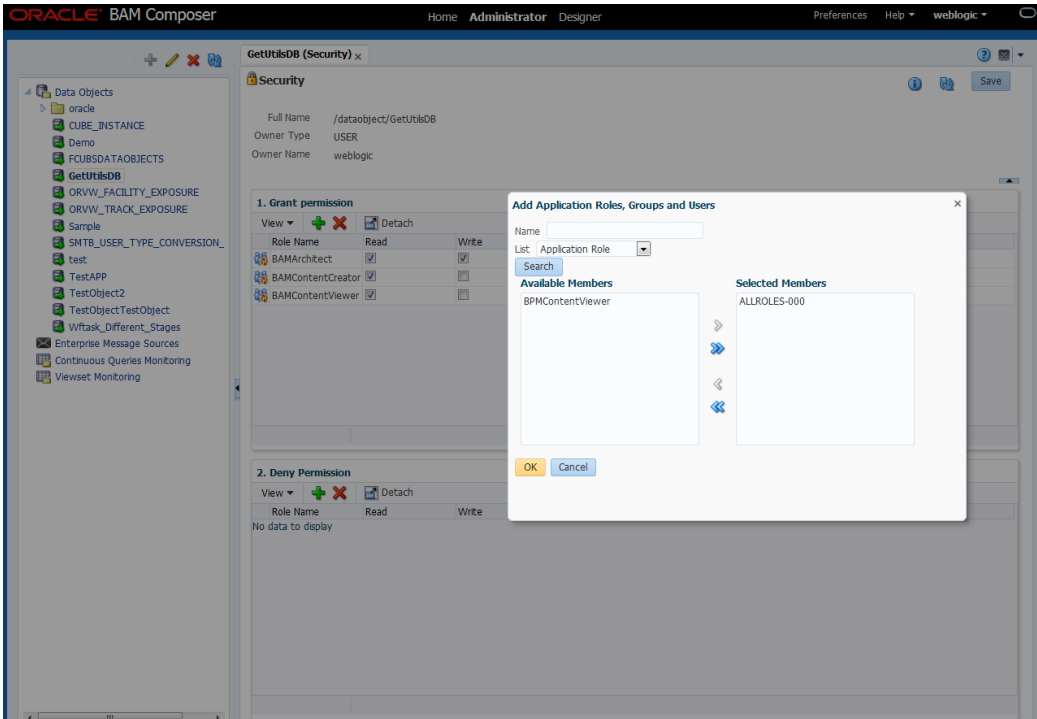
18. Go to Data Object→Right Click on CUBE\_INSTANCE→Security



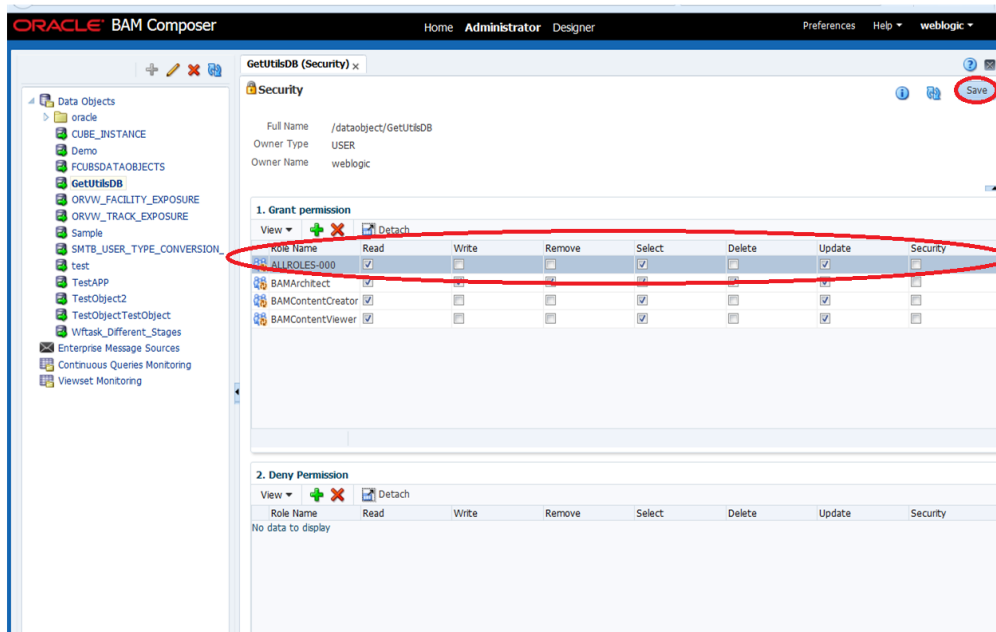
19. Click on Add button under Grant permission and search the list based on the Application Role



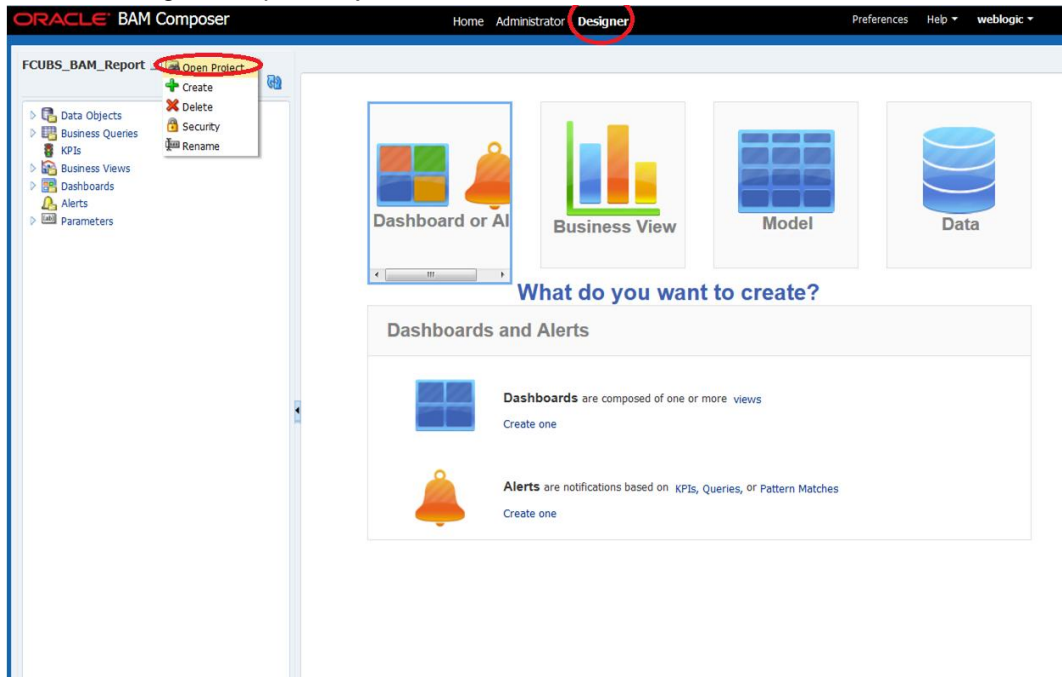
20. Move the ALLROLES-000 to Selected members.



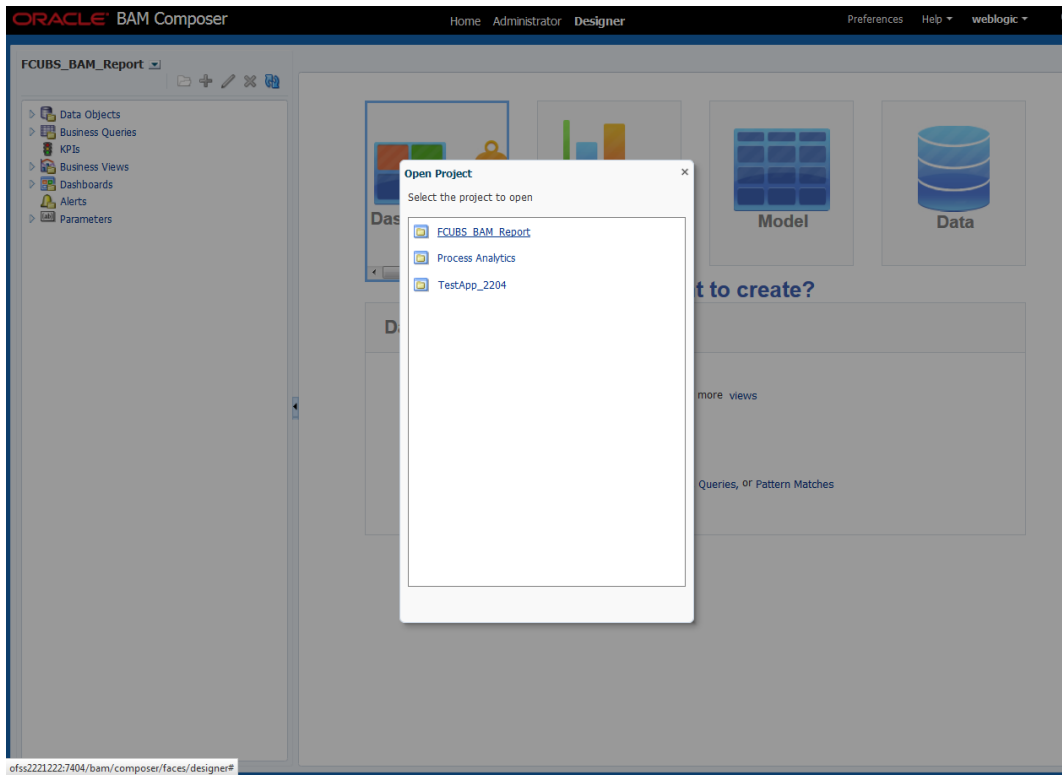
21. Click on read ,select and Update check boxes →Click on Save.



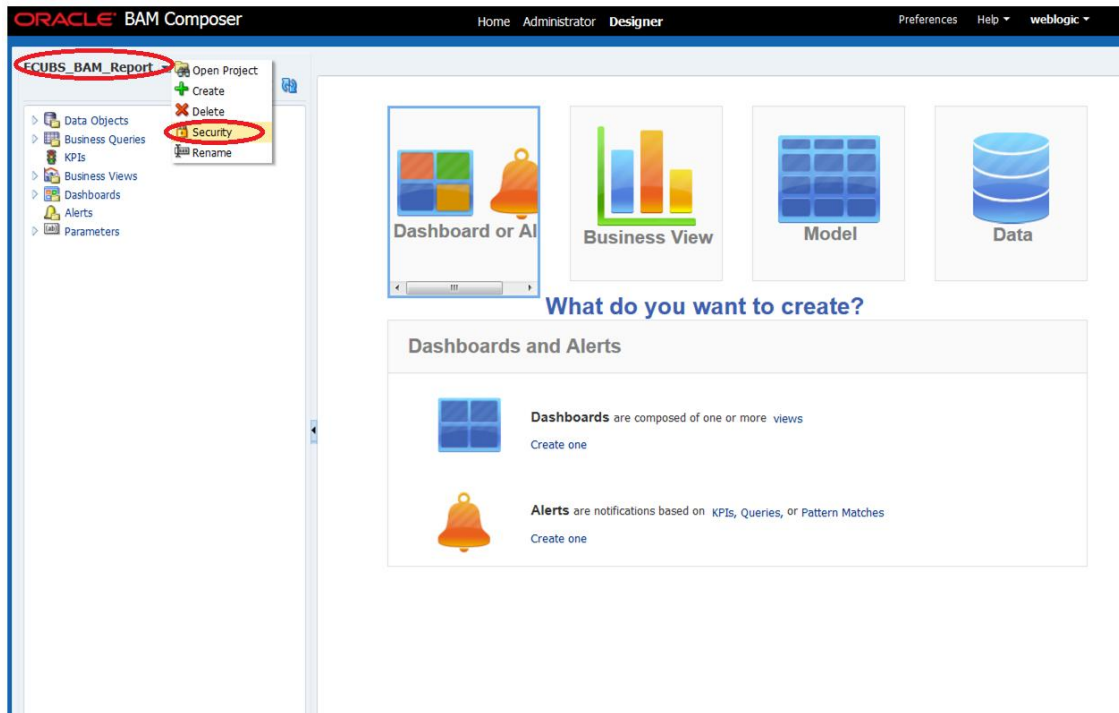
22. Follow the step 17 to 21 for other Data objects also.(cube\_instance,wftask\_different\_stages, ORVW\_TRACK\_EXPOSURE, ORVW\_FACILITY\_EXPOSURE, GetUtilsDB, SMTB\_USER\_TYPE\_CONVERSION\_VIEW, FCUBSDATAOBJECTS).
23. Click on Designer →open Project



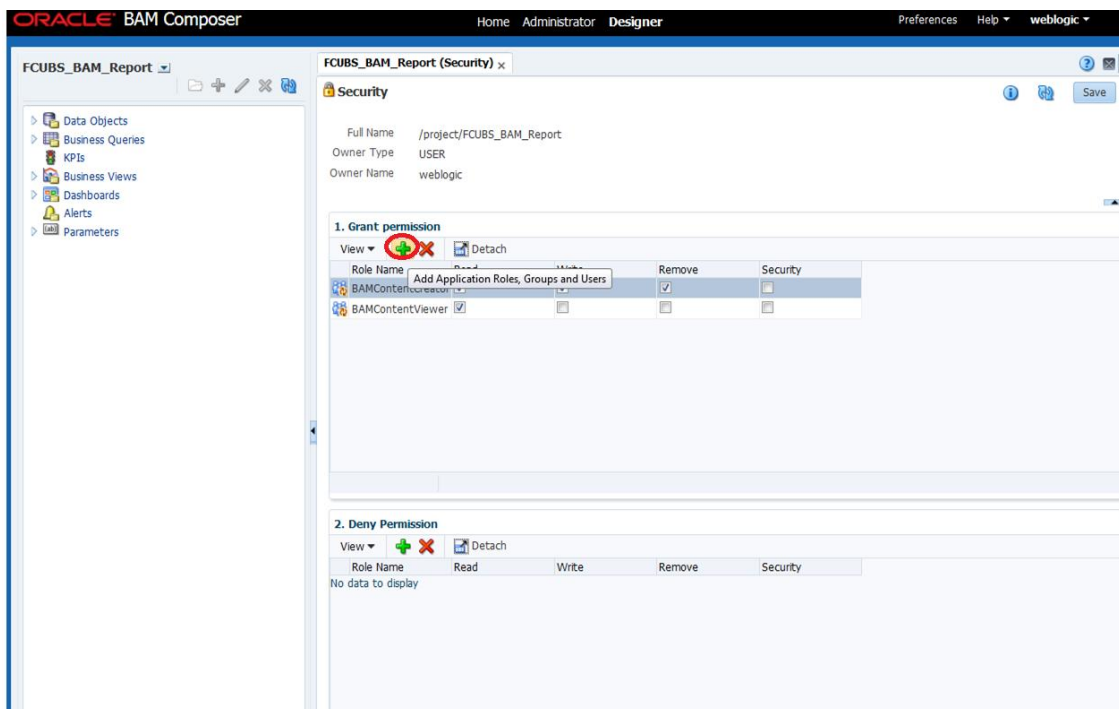
24. Click on FCUBS\_BAM\_report



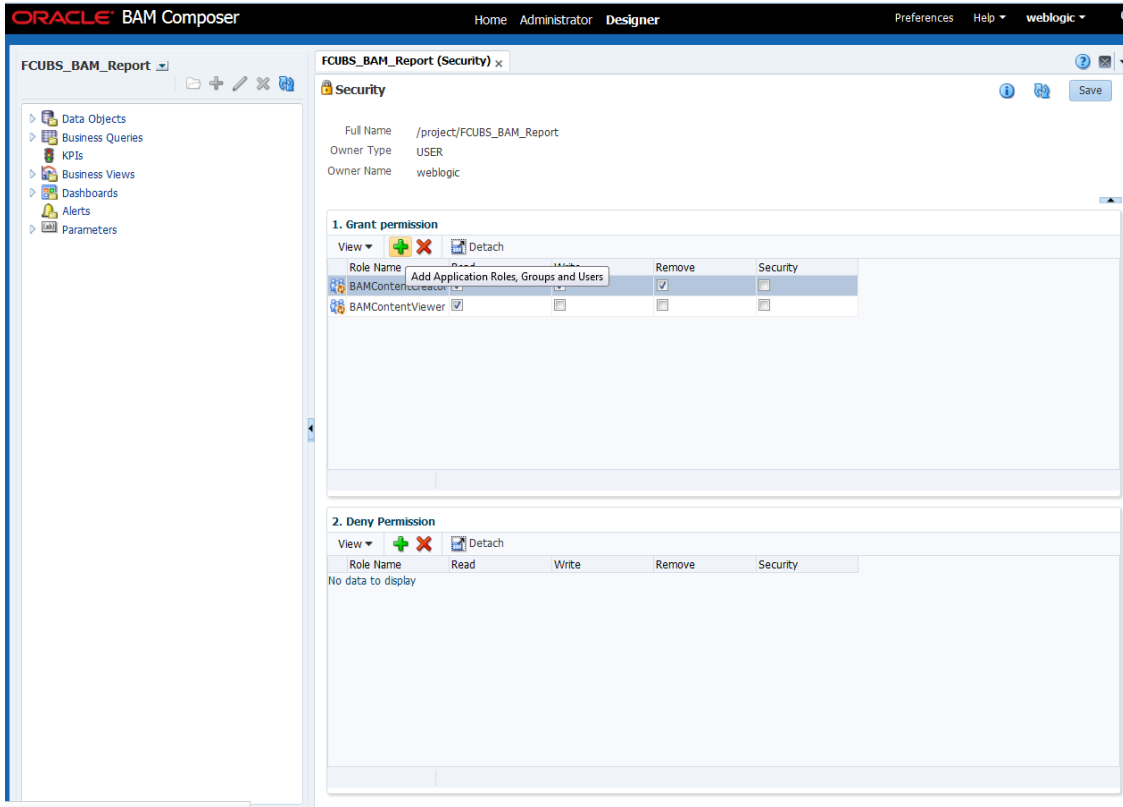
25. click on FCUBS\_BAM\_Report → Security



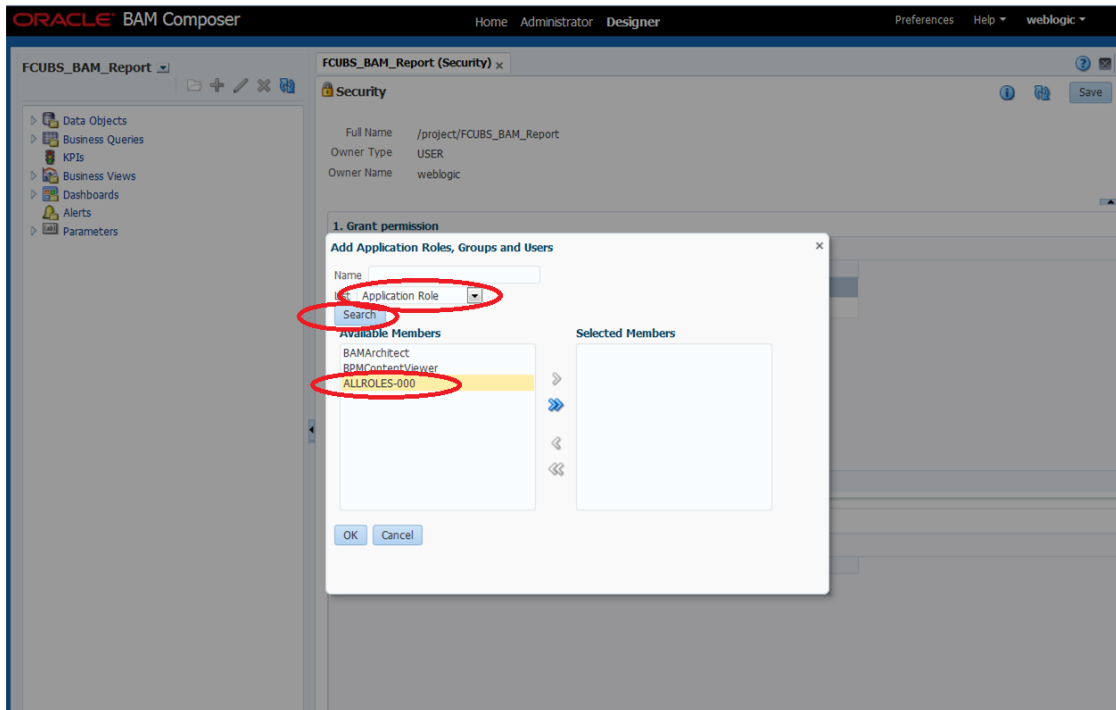
26. Click on ADD button Under Grant Permission.



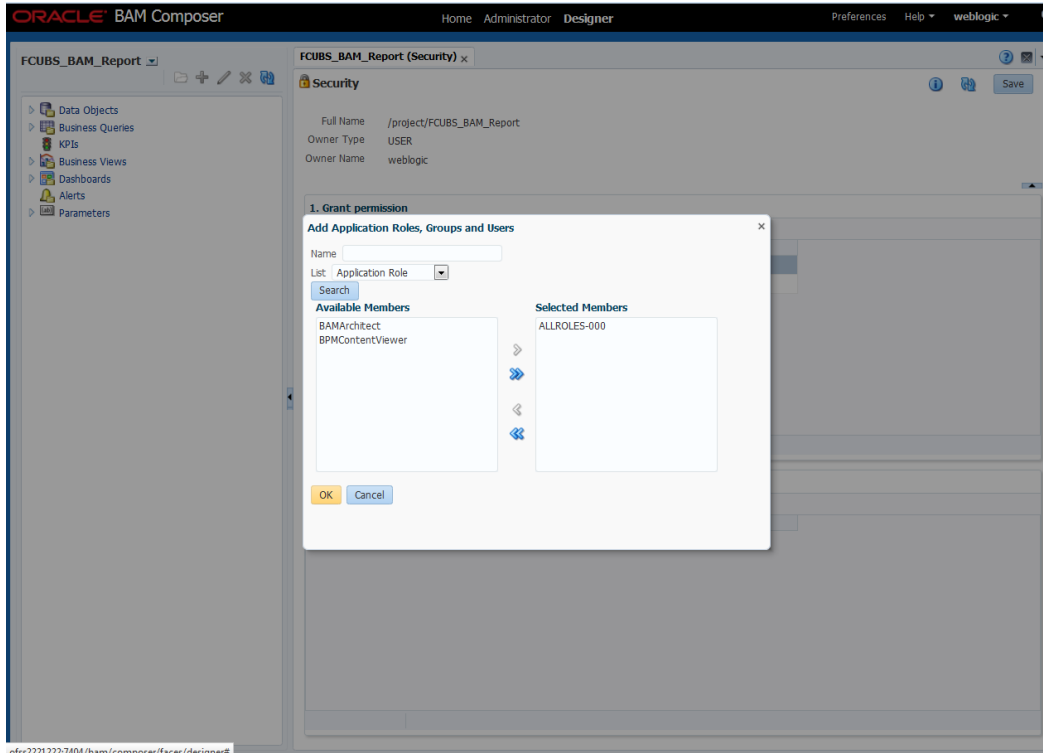




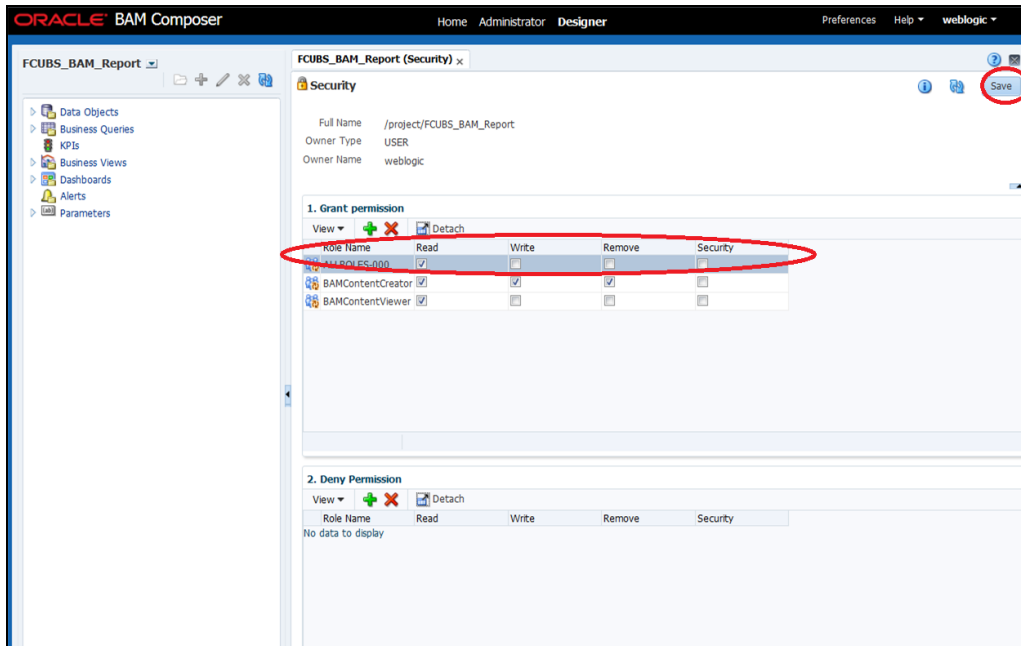
27. Search the List based on the Application Roles and Select the ALLROLES-000



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



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

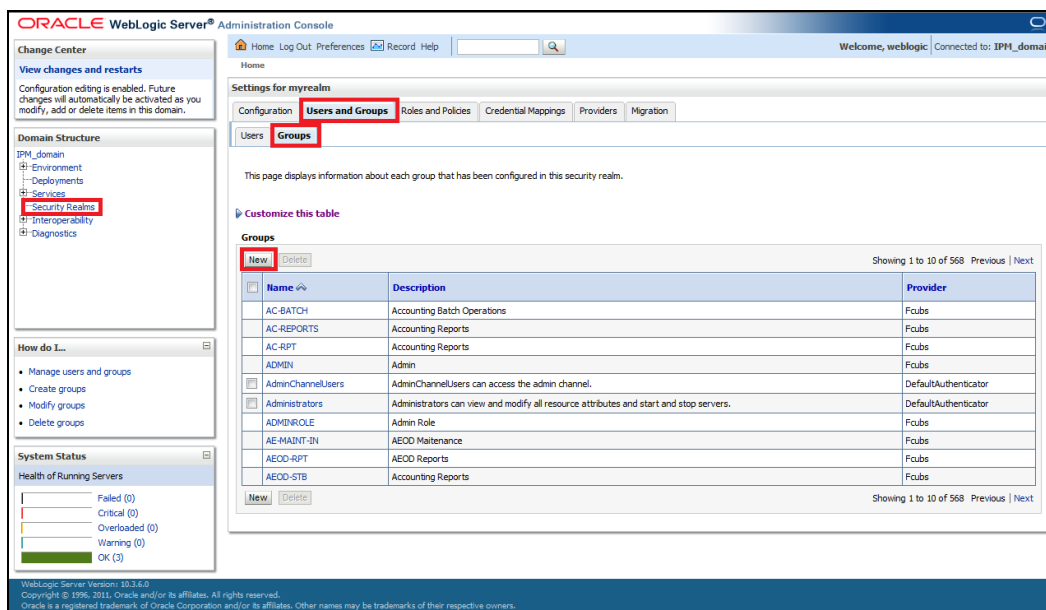


## 1.2.10 IPM configuration to edit the document

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

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

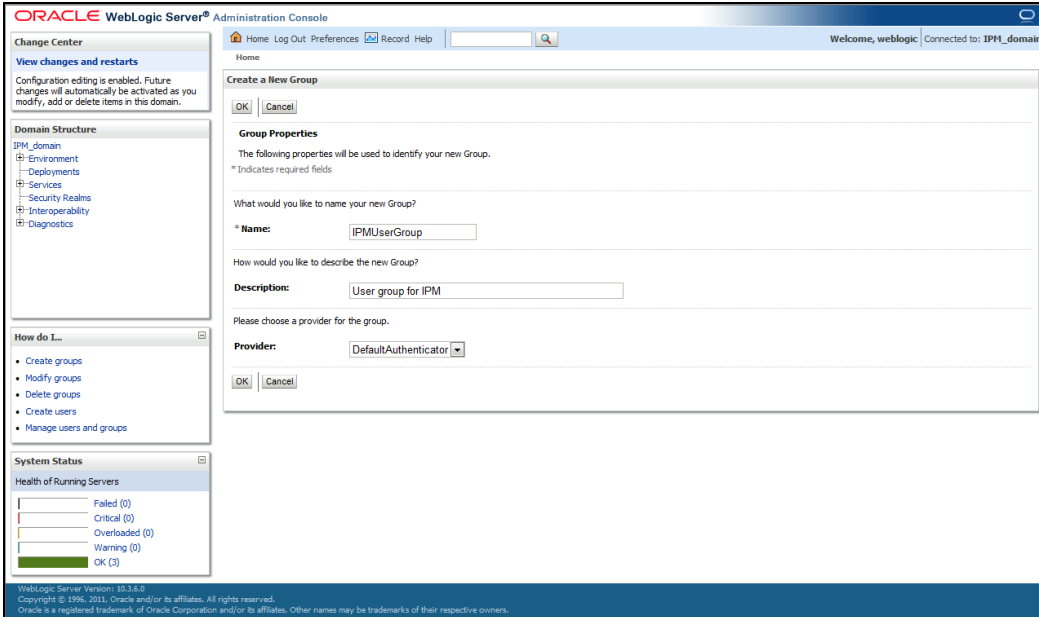
- 3) After adding the custom authenticator,
  - Navigate to security realms >my realm > Users and Groups > Groups.
  - Click on the New button.



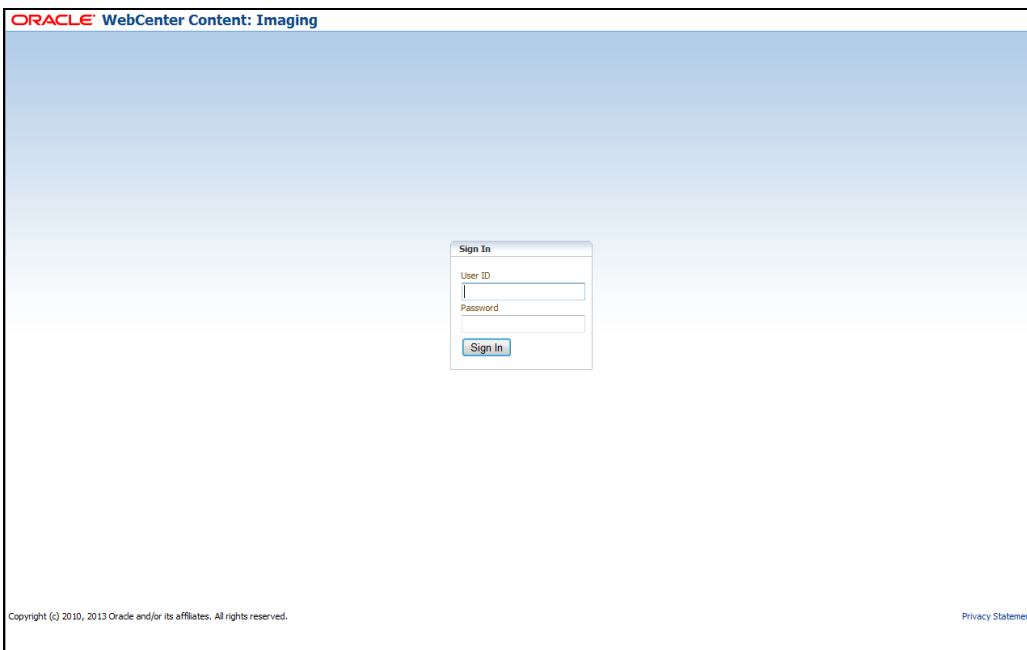
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Groups' sub-tab is selected. Below the sub-tabs, there is a 'Customize this table' section with a 'New' button highlighted in red. A table of groups is displayed with columns for 'Name', 'Description', and 'Provider'. The table contains several entries, including 'AC-BATCH', 'AC-REPORTS', 'AC-RPT', 'ADMIN', 'AdminChannelUsers', 'Administrators', 'ADMINROLE', 'AE-MAINT-IN', 'AEOD-RPT', and 'AEOD-STB'. The 'Provider' column shows 'Fcubs' for most groups and 'DefaultAuthenticator' for 'AdminChannelUsers' and 'Administrators'. At the bottom of the table, there is another 'New' button highlighted in red.

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

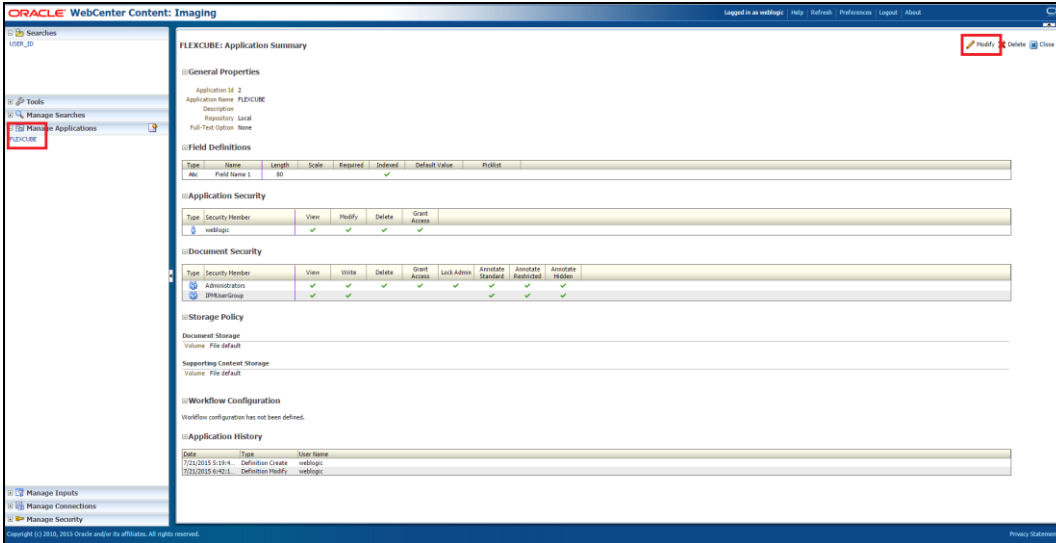
- 4) After Clicking on the new button,
  - Enter the name as “IPMUserGroup”
  - Description for it (optional)
  - And select the authenticator as “DefaultAuthenticator”
  - And then click “OK”



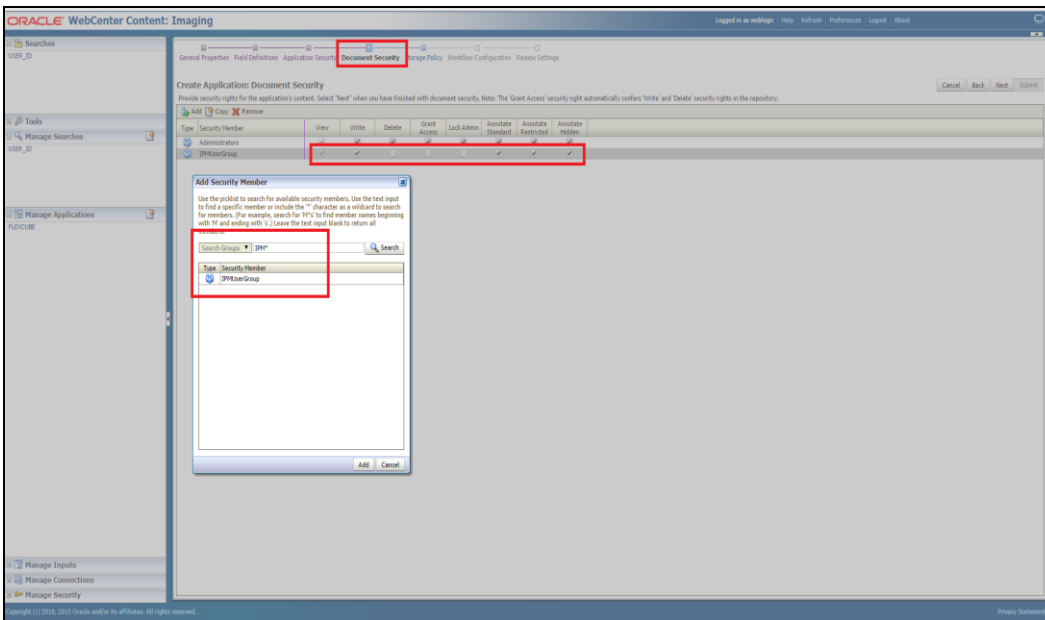
5) Login to the Imaging URL <http://s:<hostname>:<port>/imaging> with admin user



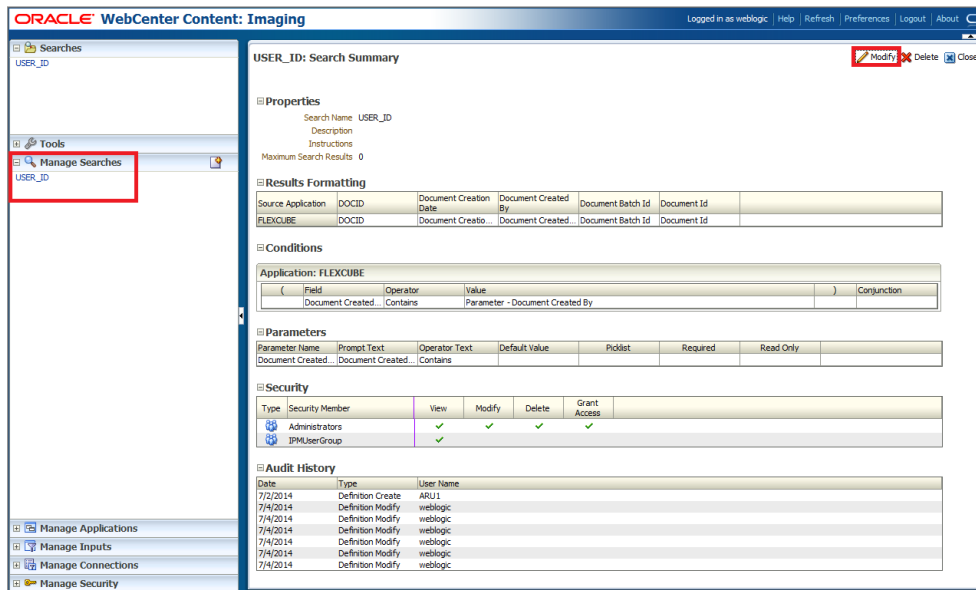
- a. Navigate to Manage Applications
- b. Click on the FLEXCUBE
- c. Then click on the modify on the right pane



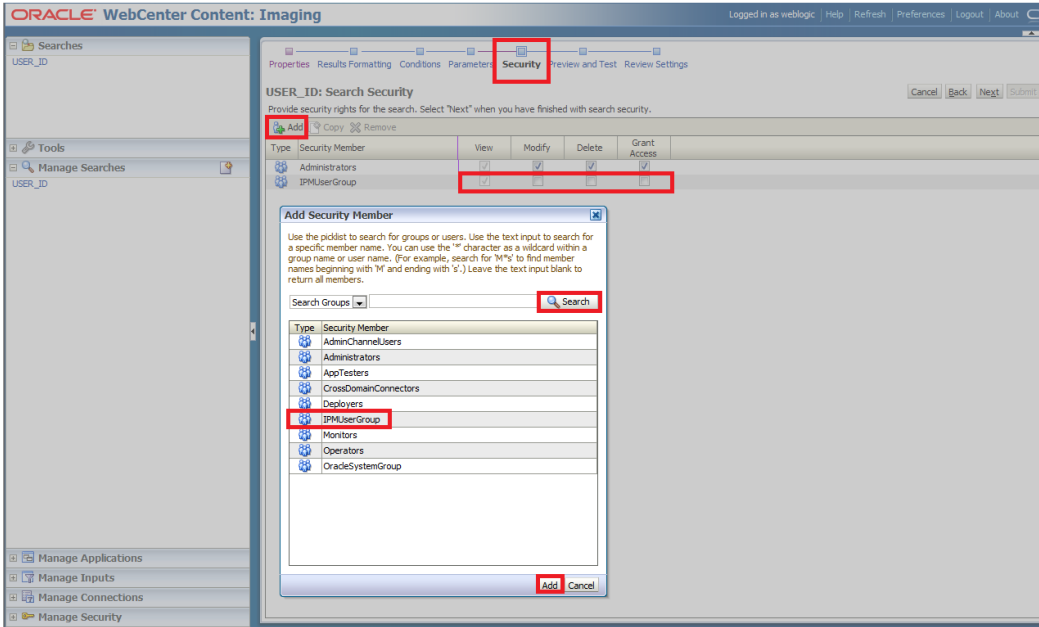
- 6) After clicking on the modify button,
  - a. Navigate to Document Security
  - b. Click on Add button
  - c. Click on Search button in the pop up window
  - d. Select the "IPMUserGroup"
  - e. Click on Add
  - f. IPMUserGroup will be listed in the panel, select view ,write,annotate Standard,Annotate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



- 7) After clicking on the submit button,
  - a. Navigate to Manage Searches
  - b. Click on the available search (ex: USER\_ID in this doc)
  - c. Click on the modify



- 8) After clicking on the modify button,
  - a. Navigate to Document Security
  - b. Click on Add button
  - c. Click on Search button in the pop up window
  - d. Select the "IPMUserGroup"
  - e. Click on Add
  - f. IPMUserGroup will be listed in the panel; don't select any checkbox except the default view checkbox.
  - g. Finally click on the submit button on the right corner



9) Copy the FCBPELCIS.jar to location

<ORACLE\_HOME >\user\_projects\domains\<<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.FCIIdentityStoreFactory"/>
  <property name="DATASOURCE_NAME" value="jdbc/fcjdevDS"/>
  <property name="INTERNAL_CONTEXT_REQUIRED" value="true"/>
  <property name="INTERNAL_CONTEXT_NAME" value="internalstore"/>
</serviceInstance>
```



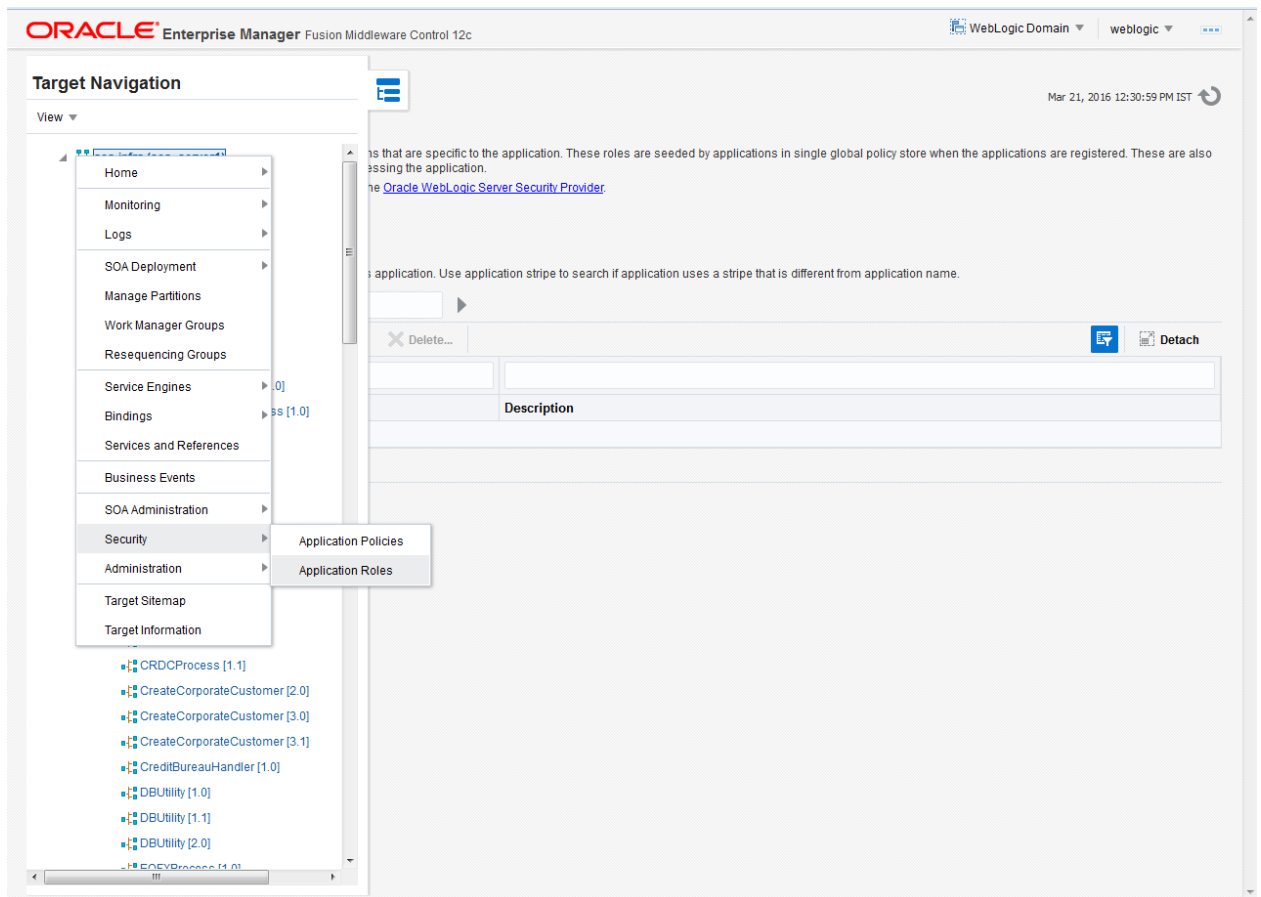
Make sure that the JNDI (jdbc/fcjdevDS) matches the value given during property file creation.

- 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.



### 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

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

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

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The page title is "Application Roles" under the "soa-infra" SOA Infrastructure. The interface includes a search bar and a table of application roles. The "SOAdmin" role is highlighted in blue.

**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...
<b>SOAdmin</b>	<b>SOA Admin Role</b>	<b>SOA application admin role, has full privilege for performing any operations including security related</b>
SOAOperator	SOA operator Role	SOA application operator, for common operational tasks like start, stop, monitor, backups
SOAMonitor	SOA Monitor Role	SOA application monitor role, has read-only privileges for monitoring
SOAAuditAdmin	SOA Audit Admin Role	SOA audit administrator role, can perform audit configuratoin and administration
SOAAuditViewer	SOA Audit Viewer Role	SOA audit viewer role, can view audit records
BPMWorkflowAdmin	BPM Workflow System Admin Role	BPM Workflow Administrator Application Role
BPMWorkflowCustomize	BPM Workflow Customize Role	BPM Workflow Customize Application Role
BPMAGAdmin	BPM Activity Guide Admin Role	BPM Activity Guide Administrator Application Role
BPMOrganizationAdmin	BPM Organization Admin role	BPM Organization Administrator Application Role
SOADesigner	SOA Designer	SOA Designer

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

The screenshot shows the Oracle Enterprise Manager interface for editing an application role. A modal dialog titled "Add Principal" is displayed in the foreground. The dialog contains the following elements:

- Search Section:** A "Search" section with a "Type" dropdown menu set to "Group". Below it are two "Starts With" dropdown menus for "Principal Name" and "Display Name".
- Searched Principals Table:** A table with columns "Principal", "Display Name", and "Description". The table is currently empty, with the text "No search conducted" displayed below it.
- Advanced Option:** A section titled "Advanced Option" with a checkbox labeled "Check to enter principal name here instead of searching from above. This option can be used for advanced scenarios related to custom authenticators." The checkbox is currently unchecked.
- Buttons:** "OK" and "Cancel" buttons are located at the bottom right of the dialog.

The background interface shows the "Edit Application Role : SOAAdmin" page with various fields for role configuration and a "Members" section with an "Add" button.

5. Provide the principal name as (EX:ALLROLES-000) Param\_val which is mapped to the OR\_ADMINROLE in the cstb\_param table and search the role. Click on ok.

The screenshot shows the Oracle Enterprise Manager interface for editing an application role named 'SOAAdmin'. A modal dialog box titled 'Add Principal' is open, allowing the user to search for and select application roles to grant permissions to. The dialog includes search criteria for Type (Group), Principal Name (Starts With ALLROLES-000), and Display Name (Starts With). A table of 'Searched Principals' is displayed, showing one result: ALLROLES-000. The dialog also has an 'Advanced Option' section with a checkbox for entering the principal name directly.

**Oracle Enterprise Manager** Fusion Middleware Control 12c

WebLogic Domain | weblogic

soa-infra

### 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: SOAAdmin

Description: SOAAdmin role

Members

An application role may need other roles as 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**

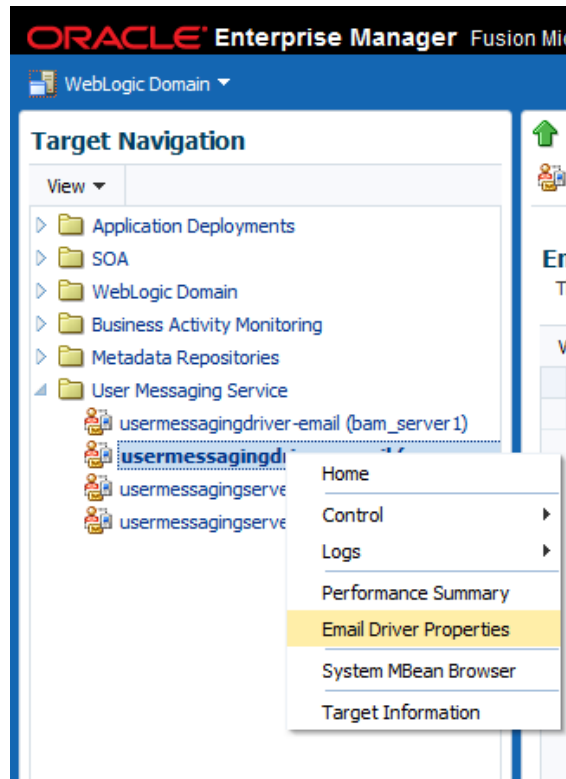
Check to enter principal name here instead of searching from above. This option can be used for advanced scenarios related to custom authenticators.

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

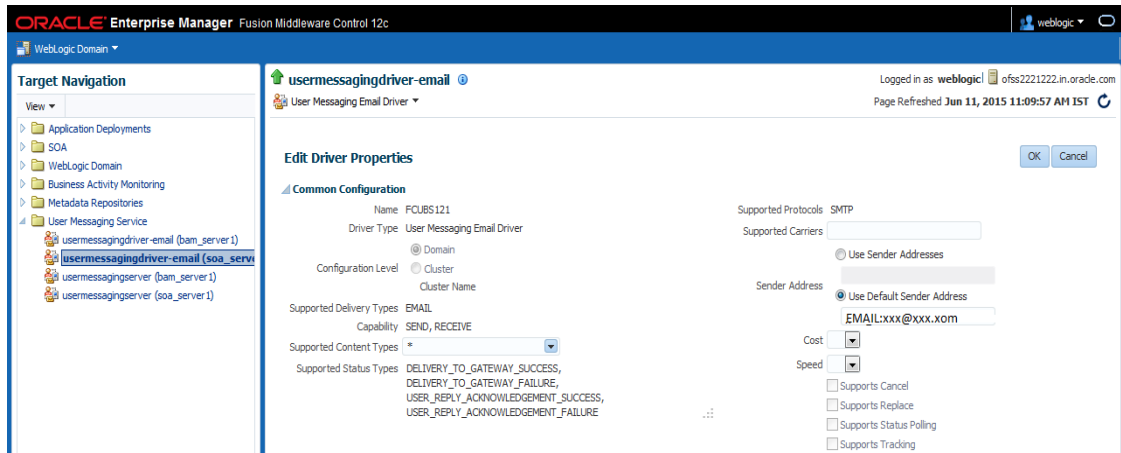
6. Click on Ok .

## 1.2.12 Email Driver Configuration

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



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



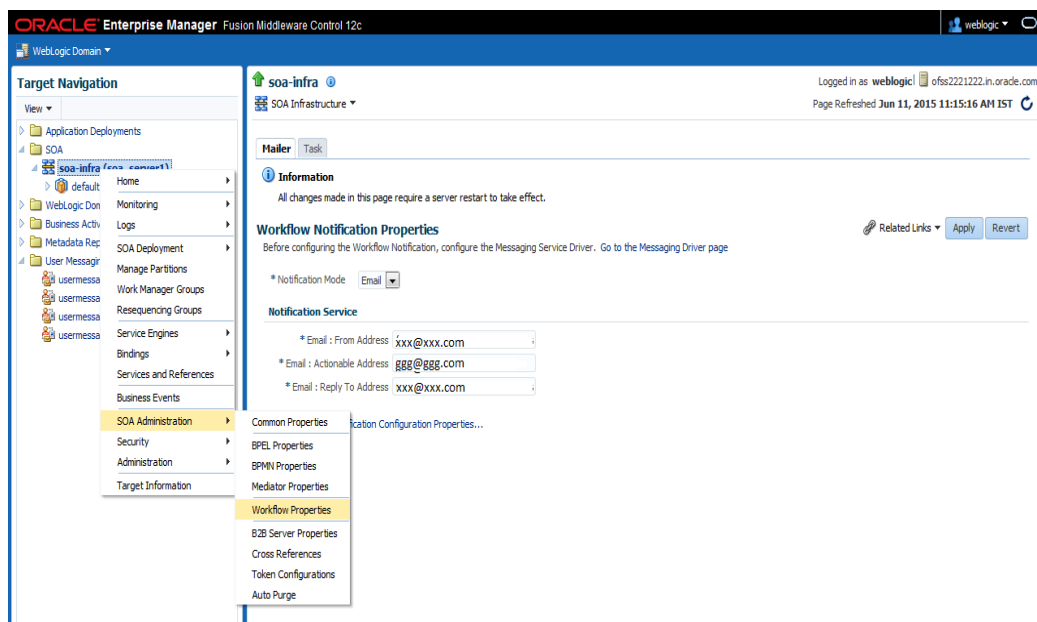
7. Select the mail access protocol (IMAP) as per the mail server specification

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			

8. Enter the Receive folder in the mailbox (INBOX)
9. Enter the Outgoing mail server hostname or IP
10. Enter the outgoing mail server port
11. Enter the outgoing default from address
12. Enter the Outgoing 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.			

13. Navigate to SOA Administration ->Workflow Properties



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

## 1.2.13 TimeOut Settings for BPEL

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The browser address bar displays the URL `10.184.135.218:7001/console/console.portal?_nfpb=true&_pageLabel=HomePage1`. The page title is "ORACLE WebLogic Server Administration Console 12c". The user is logged in as "admin" and is connected to the "AlphaDomain".

The interface is divided into several sections:

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

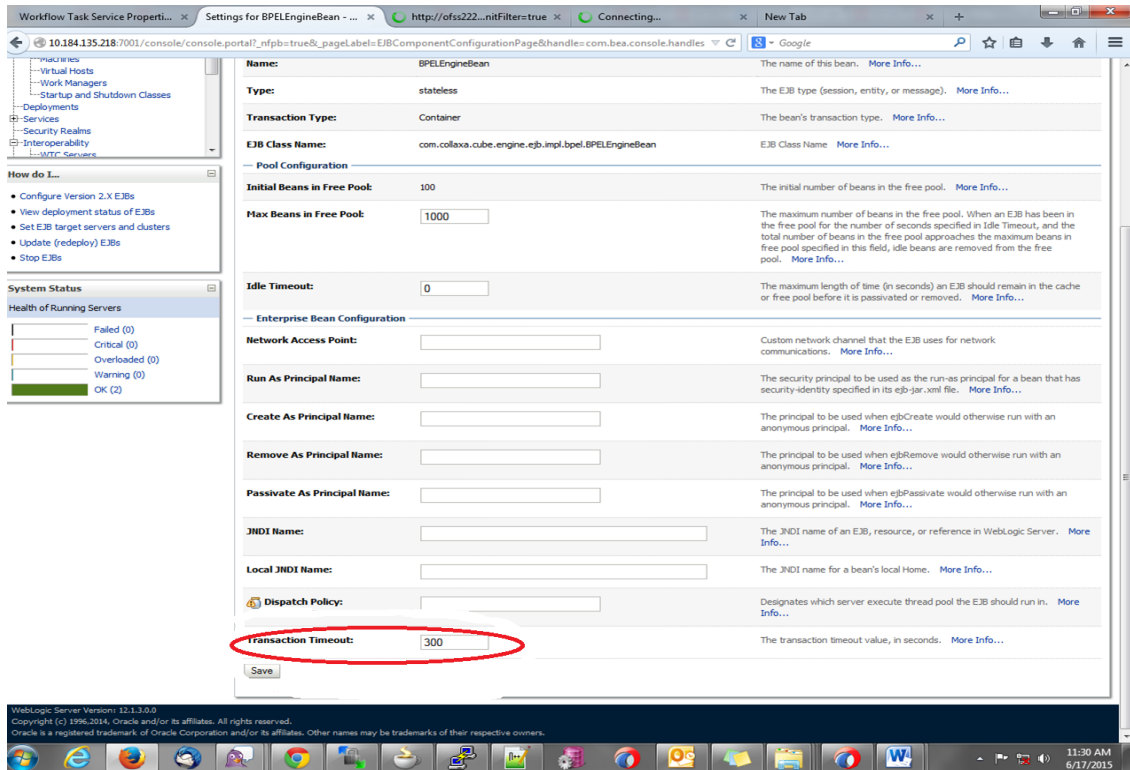
3. Click on SOA\_INFRA Application under deployments.



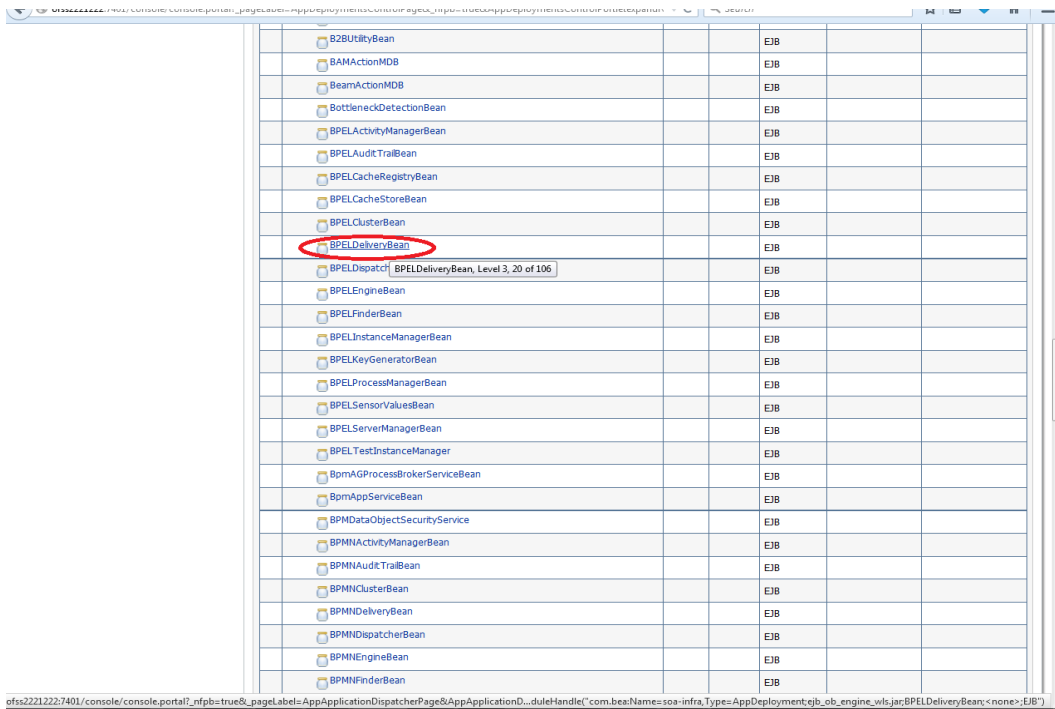
Name	State	Health	Type	Targets	Deployment Order
oracle.wsm.console.core.view(1.0,12.1.3.0)	Active		Library	AdminServer	311
oracle.wsm.seed.policies(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
OracleBamAdapter	Installed		Resource Adapter		329
OraclePMBACServerApp	Active	OK	Enterprise Application	SOAServer	384
OraclePMComposerRolesApp	Active	OK	Enterprise Application	SOAServer	382
OraclePMPProcessRolesApp	Active	OK	Enterprise Application	SOAServer	381
OraclePMPWorkspace	Active	OK	Enterprise Application	SOAServer	383
ora18n-adf(11.1.1.1.1.0)	Active		Library	AdminServer, BAMServer, SOAServer	100
owasp.esapi(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
SAPAdapter	Installed		Resource Adapter		335
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
soa-infra	Active	OK	Enterprise Application	SOAServer	350
soa-webapps	Active	OK	Enterprise Application	SOAServer	360
soa.em	Active		Library	AdminServer	100
SocketAdapter	Installed		Resource Adapter		326
state-management-provider-memory-rar-12.1.3	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
UDX(11,12.1.3.0.0)	Active		Library	AdminServer, BAMServer, SOAServer	100

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

B2BInstanceMessageBean	EJB
B2BIntegratorBean	EJB
B2BMetadataUtilityBean	EJB
B2BStarterBeanWLS	EJB
B2BUtilityBean	EJB
BAMActionMDB	EJB
BeamActionMDB	EJB
BottleneckDetectionBean	EJB
BPelaActivityManagerBean	EJB
BPelaAuditTrailBean	EJB
BPelaCacheRegistryBean	EJB
BPelaCacheStoreBean	EJB
BPelaClusterBean	EJB
BPelaDeliveryBean	EJB
BPelaDispatcherBean	EJB
BPelaEngineBean	EJB
BPelaFind(BPELEngineBean, Level 3, 22 of 106)	EJB
BPelaInstanceManagerBean	EJB
BPelaKeyGeneratorBean	EJB
BPelaProcessManagerBean	EJB
BPelaSensorValuesBean	EJB
BPelaServerManagerBean	EJB
BPelaTestInstanceManager	EJB
BpmAGProcessBrokerServiceBean	EJB
BpmAppServiceBean	EJB
BPMDataObjectSecurityService	EJB
BPMNActivityManagerBean	EJB
BPMNAuditTrailBean	EJB
BPMNClusterBean	EJB



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



The screenshot shows the Oracle WebLogic Server console configuration for an EJB. The 'Transaction Timeout' field is highlighted with a red circle and set to 1800. The 'EJB Class Name' is 'com.colaxa.cube.engine.ejb.mpl.bpel.BPELDeliveryBean'. The 'Type' is 'stateless'. The 'Transaction Type' is 'Container'. The 'Initial Beans in Free Pool' is 200 and 'Max Beans in Free Pool' is 1000. The 'Idle Timeout' is 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', 'Dispatch Policy', and 'Transaction Timeout'.

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for dev\_domain" and has several tabs: Configuration, Monitoring, Control, Security, Web Service Security, and Notes. Under the "Configuration" tab, there are sub-tabs for General, JTA, JPA, EJBs, Web Applications, Logging, and Log Filters. The "JTA" sub-tab is selected.

Below the sub-tabs, there is a "Save" button and a descriptive text: "Use this page to define the Java Transaction API (JTA) configuration of this WebLogic Server domain." The "Timeout Seconds" field is highlighted with a red circle and contains the value "3600". Other fields include "Abandon Timeout Seconds" (86400), "Before Completion Iteration Limit" (10), "Max Transactions" (10000), "Max Unique Name Statistics" (1000), and "Checkpoint Interval Seconds" (300). There is also a checkbox for "Write recovery logs when determiners configured" and a "Determiners" text area. At the bottom, there is a checked checkbox for "Forget Heuristics".

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

soa-infra (SOA Infrastructure) - ... x Settings for AlphaDomain - Alp... x http://ofss222...nitFilter=true x Connecting... x New Tab x

10.184.135.218:7001/em/faces/ai/soa/infra?Adf-Page-Id=11&target=%2FDomain\_AlphaDomain%2FAlphaDomain%2FsoaServer%2Fsoa-infr... x Google

**ORACLE Enterprise Manager** Fusion Middleware Control 12c

WebLogic Domain

soa-infra (SOA Infrastructure) Logged in as admin | ofss220692.in.oracle.com  
 Page Refreshed Jun 17, 2015 11:36:01 AM IST

**Target Navigation**

- Application Deployments
- SOA
  - soa-infra (5)
    - default
      - Monitoring
      - Logs
      - SOA Deployment
      - Manage Partitions
      - Work Manager Groups
      - Resequencing Groups
      - Service Engines
      - Bindings
      - Services and References
      - Business Events
      - SOA Administration
        - Common Properties
        - BPEL Properties
        - BPMN Properties
        - Mediator Properties
        - Workflow Properties
        - B2B Server Properties
        - Cross References
        - Token Configurations
        - Auto Purge
      - Security
      - Administration
      - Target Information
    - CRPClosureProcess [1.0]
    - CRPProcess [1.0]
    - CRPProcess [2.0]
    - CurrentAccountCreationWithCreditFacility
    - DBUtility [1.0]
    - DBUtility [2.0]
    - DisburseFCUBSORRetailLoanContract [1.0]
    - EQFXProcess [1.0]
    - EXPProcess [1.0]
    - ExternalValuation [2.0]
    - InitiateFCUBSORRetailLoanPayment [1.0]
    - InitiateKYCCheckFCUBSORService [1.0]
    - InitiateRetailLoanContractFCUBSORService [1.0]
    - InitiateRetailLoanPaymentFCUBSORService [1.0]
    - InitiateRiskEvaluationFCUBSORService [1.0]
    - KYCCheck [2.0]
    - KYCCorporateReview [2.0]
    - KYCCorporateReview [2.0]
    - KYCCorporateReview [2.0]
    - LimitReview [1.0]
    - OpenCurrentAccount [2.0]
    - OpenRetailTermDeposit [1.0]

**Dashboard** | Deployed Composites | Flow Instances | Error Hospital

**Key Configuration** | **Business Transaction Faults** | Search

Profile: **BPM BASIC**  
 Instance Tracking: **Production**  
 Default Query Duration: **Last 24 Hours**  
 Auto Purge: **Enabled**

Last\* 24 Hours

Refresh region to show the latest data. Click graph to drill down.

**Composites and Adapters Availability**

**SOA Runtime Health**

soa-infra (SOAServer)

- Initialized Successfully
- No Composite Start-Up Errors
- No EIS Connectivity Errors
- All Composites are UP
- All adapter service endpoints are UP

System Backlogs

Last\* 24 Hours

Refresh region to show the latest data.

Messages in Queues:

- BPEL Invoke --
- BPEL Callback --
- Mediator Parallel Routing --

Recent In: With Fa, All

Composite: Sensor Name

11:36 AM 6/17/2015

System MBean Browser - Oracle... Settings for AlphaDomain - Alp... http://ofss222...nitFilter=true Connecting... New Tab

10.184.135.218:7001/em/faces/soa/browser/mbeans?Adf-Page-Id=13&mbeanPattern=oracle.as.soainfra.config%3Dbpel%2C\*&target=Google

**ORACLE Enterprise Manager Fusion Middleware Control 12c**

WebLogic Domain

**Change Center**  
Changes Recording

**Target Navigation**  
View  
Application Deployments  
SOA  
soa-infra (SOAServer)  
default  
AmendFCUBSORNFRetailLoanContract [1.0]  
AmendFCUBSORRetailLoanContract [1.0]  
AmendRetailLoanContractFCUBSORService [1.0]  
BIPUtility [1.0]  
BPCLCOLLATProcess [1.0]  
BPCLCRPProcess [1.0]  
BPCLCRPPProcess [1.0]  
bpelcvnprocess [1.0]  
BPCLLimitReview [1.0]  
CIBLProcess [1.0]  
CloseFCUBSORRetailLoanContract [1.0]  
CloseRetailLoanContractFCUBSORService [1.0]  
COLLATProcess [1.0]  
CRDCProcess [1.0]  
CreditBureauBPCL [1.0]  
CreditBureauHandler [1.0]  
CRPClosureProcess [1.0]  
CRPPProcess [1.0]  
CRPPProcess [2.0]  
CurrentAccountCreationWithCreditFacility [1.0]  
DBUtility [1.0]  
DBUtility [2.0]  
DisburseFCUBSORRetailLoanContract [1.0]  
EQFXProcess [1.0]  
EXPProcess [1.0]  
ExternalValuation [2.0]  
InitiateFCUBSORRetailLoanPayment [1.0]  
InitiateKYCheckFCUBSORService [1.0]  
InitiateRetailLoanContractFCUBSORService [1.0]  
InitiateRetailLoanPaymentFCUBSORService [1.0]  
InitiateRiskEvaluationFCUBSORService [1.0]  
KYCheck [2.0]  
KYCCorporateReview [2.0]

**soa-infra**  
SOA Infrastructure

Logged in as admin | ofss220692.in.oracle.com  
Page Refreshed Jun 17, 2015 11:37:36 AM IST

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

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

Show MBean Information

Attributes	Operations	Notifications	Name	Description	Access	Value
			22	MaximumNumberOfInvokeMessagesInMemoryCache	RW	100000
			23	MaxRecoverAttempt	RW	2
			24	MinBPCLWait	RW	2
			25	objectName	R	oracle.as.soainfra.config:mar
			26	OneWayDeliveryPolicy	RW	async.persist
			27	QualityOfService	RW	DirectWrite
			28	QualityOfServiceAuditStorePolicyUsed	RW	false
			29	QualityOfServiceOneWayDeliveryPolicyUsed	RW	false
			30	ReadOnly	R	false
			31	RecoveryConfig	RW	javax.management.openmbe
			32	RecurringMaxMessageRaiseSize	RW	50
			33	RestartNeeded	R	false
			34	SpecCompliance	RW	suggest
			35	StartupMaxMessageRaiseSize	RW	50
			36	StatsLastN	RW	-1
			37	SynMaxWaitTime	RW	45
			38	SystemMBean	R	false
			39	ValidateXML	RW	false
			40	Version	R	11.1.0
			41	Visible	R	true

11:37 AM 6/17/2015

## 1.3 Integrating Oracle FLEXCUBE UBS and Scheduler

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

### 1.3.1 Running Backend Scripts

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

Follow the steps given below:

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



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

## 1.4 Integrating Oracle FLEXCUBE UBS and BIP Reports

You can integrate Oracle FLEXCUBE UBS 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 UBS and MBean

In order to integrate Oracle FLEXCUBE UBS and MBean, you need to follow the below steps before deploying the Oracle FLEXCUBE UBS 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  
[December] [2016]  
Version 12.3.0.0.0

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