

Setting up Plug-Ins  
Oracle Banking Corporate Lending  
Release 14.7.2.0.0  
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# 1. Setting Up Plug-Ins

## 1.1 Introduction

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

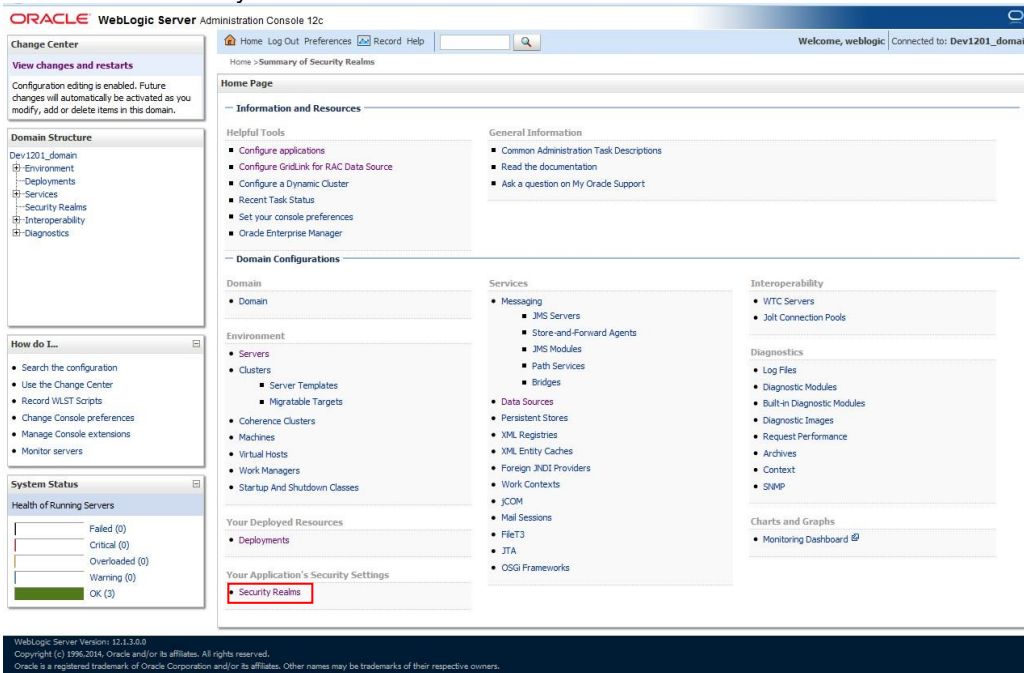
## 1.2 Integrating Oracle FLEXCUBE UBS and BPEL

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 'FCJJPSPProvider.jar' file inside the folder 'BPELbuild' created along. 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 inside the BPELbuild folder.
  - a. Copy this file to the following path on the application server host  
**<ORACLE\_HOME>\wlserver\server\lib\mbeantypes .**
2. Restart the Admin Server.
3. Login to the Console.
4. Click on Security Realms.



5. Click on myrealm.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: Dev1201\_domain

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

**Domain Structure**  
Dev1201\_domain  
- Environment  
- Deployments  
- Services  
- Security Realms  
- Interoperability  
- Diagnostics

**How do I...**  
• Configure new security realms  
• Delete security realms  
• Change the default security realm

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

**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.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa\_server\_bpel

**Change Center**  
View changes and restarts  
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.  
Lock & Edit  
Release Configuration

**Domain Structure**  
soa\_server\_bpel  
- Domain Partitions  
- Environment  
- Deployments  
- Services  
- Security Realms  
- Interoperability  
- Diagnostics

**How do I...**  
• Configure authentication and identity assertion providers  
• Configure the Password Validation provider  
• Manage security providers  
• Set the JAAS control flag  
• Re-order authentication providers

**System Status**  
Health of Running Servers as of 6:37 AM  
Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (2)

**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

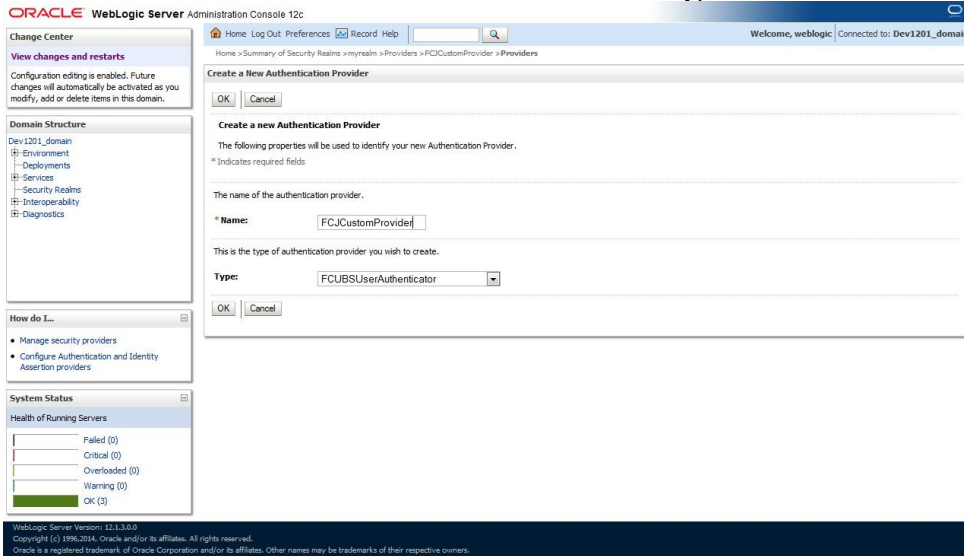
An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS.

**Customize this table**  
Authentication Providers

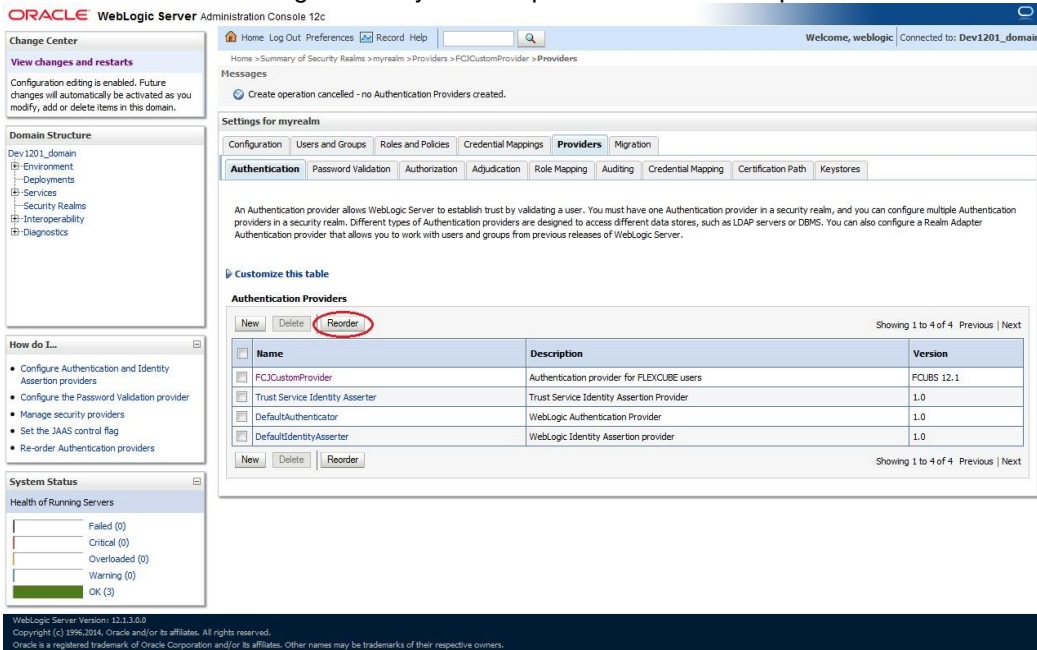
Name	Description	Version
FCJCustomProvider	Authentication provider for FLEXCUBE users	FCUBS 12.2
Trust Service Identity Asserter	Trust Service Identity Assertion Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

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



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



ORACLE WebLogic Server Administration Console 12c

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

Reorder Authentication Providers

OK Cancel

Reorder Authentication Providers

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

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

Authentication Providers:

Available:

- FCJCustomProvider
- Trust Service Identity Asse
- DefaultAuthenticator
- DefaultIdentityAsserter

OK Cancel

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9. Click on FCJCustomProvider.

10. In Common tab change the control flag to "SUFFICIENT".

ORACLE WebLogic Server Administration Console 12c

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

Settings for FCJCustomProvider

Configuration

Common Provider Specific

Save

This page allows you to define the general configuration of this provider.

Name: FCJCustomProvider

Description: Authentication provider for FLEXCUBE users

Version: FCUBS 12.1

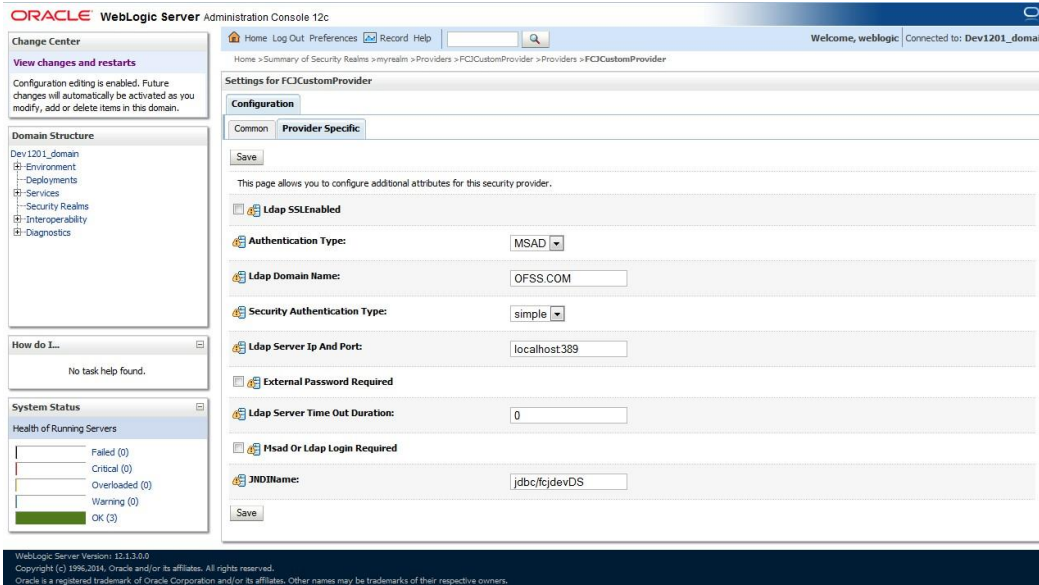
Control Flag: SUFFICIENT

Save

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11. In Provider Specific tab

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



12. For manually editing the config.xml go to the below path and open the config.xml file  
 <ORACLE\_HOME>\Middleware\user\_projects\domains\base\_domain\config\  
 The following codes need to be added at proper locations in the config.xml.  
 a) Search for < realm> tag and add the following code between <realm> and </ realm> tags. This should be the first child of the realm Node.

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

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

## 1.2.2 Configuring libovd for single Entity

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

1. Along with the Oracle FLEXCUBE UBS EAR file, the Installer creates 'FCJJSPProvider.jar' file inside the BPELbuild folder under SOURCE directory.
2. On the application server host, create a folder by name 'classes' at the location '<MIDDLEWARE\_HOME>soa\soa\modules\oracle.soa.ext\_11.1.x'.
3. Extract the file 'FCJJSPProvider.jar' and from the extracted content, copy the folder 'com' to: '<MIDDLEWARE\_HOME>soa\soa\modules\oracle.soa.ext\_11.1.x\classes'.

4. Navigate to the location  
'<MIDDLEWARE\_HOME>soa\soa\modules\oracle.soa.ext\_11.1.x\classes\com\ofss\fcc\bpel\cac'. Edit the properties file 'CISProperties.properties' and update 'JNDI.name' with the JNDI name same as Entity Name given in Multi Entity Names screen while creating property file 'fcubs.properties', e.g. 'jdbc/fcjdevDS'.
5. Copy 'FCJJSPProvider.jar' to  
'<MIDDLEWARE\_HOME>/user\_projects/domains/<domain\_name>/config/fmwconfig/ovd/plugins/lib'. Create the directory structure if it does not exist.
6. Copy the fcubs\_adapter.xml from this word doc to  
'<MIDDLEWARE\_HOME>/oracle\_common/modules/oracle.ovd/templates/



**fcubs\_adapter.xml**

7. Search for param name="DataSource" in fcubs\_adapter.xml and update its value with FCUBS Datasource name, e.g. updated parameter would look like  
<param\_name="DataSource" value="jdbc/fcjdevDS"/>.
8. Set environment variables in the command prompt, e.g. for linux shell,  

```
export ORACLE_HOME=/scratch/app/bpm12212(setting ORACLE_HOME)
export WL_HOME=/scratch/app/bpm12212/wlserver(setting WL_HOME)
export JAVA_HOME=/scratch/work_area/DBA/jdk1.8.0_144 (setting JAVA_HOME)
```
9. Execute "libovdadapterconfig" script which is present in  
'<MIDDLEWARE\_HOME>/oracle\_common/bin' with below parameters. Provide the below arguments with values for admin server host name or ip ,admin server port ,weblogic user id, domain home and fcubs datasource.  

```
./libovdadapterconfig.sh -adapterName fcubsadapter -adapterTemplate fcubs_adapter.xml -host
<ADMIN_SERVER_HOST> -port <ADMIN_PORT> -userName <WEBLOGIC_USERID> -domainPath
<DOMAIN_HOME> -dataStore DB -root ou=fcubs,dc=oracle,dc=com -contextName default -
dataSourceJNDIName <FCUBS_DATASOURCE_JNDI>
```
10. Once the above steps are completed, i.e. "Adapter created successfully: fcubsAdapter" message is displayed, 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 in lower case.

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

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

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

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

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

8. Search for ou=fcubs and update with entity id in lower case.

EX : ou= EntityId

9. 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>
```

10. Repeat from step2 to step7 for each entity creation

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

Note:- for any misconfiguration in libovd

We can delete the existing fcubsAdapter and re run the ./libovdadapterconfig.sh

For deleting fcubsAdapter use the below command:

Log in to the WSLT console by running the WLST script.For example:

MW\_HOME/oracle\_common/common/bin/wlst.sh

(UNIX)MW\_HOME\oracle\_common\common\bin\wlst.cmd (Windows)

Connect to your Administration Server using the following syntax:

```
connect ('<WLS admin user name>','<WLS admin password>','t3://<admin server host>:<admin  
server port>')
```

For example:connect('weblogic','weblogic','t3://myserver:7001')

Delete the misconfigured adapter using the following syntax:

```
deleteAdapter(adapterName='fcubsAdapter')
```

Note the following:

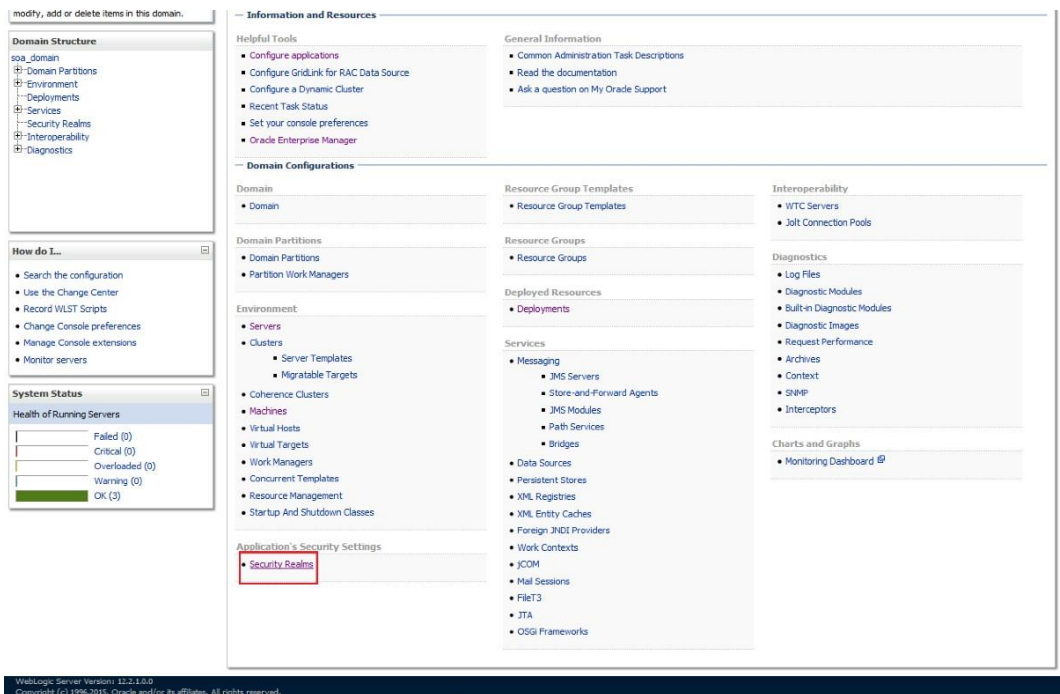
- In case of Multi Entity, all data sources must be created separately for each entity. The JNDI name will be differentiated by suffixing entity name.

Examples: If Data source is 'jdbc/fcjDevDs' then jdbc/fcjDevDs+entity name will be lookup the application. (jdbc/fcjDevDs+entity name) jndi should be presented in application server.

- For multi tenant deployment BPMN support will be available only for the logged entity.

## 1.2.4 Configuring for Multiple Providers for Multiple Entities

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



3. Click on myrealms.

**ORACLE WebLogic Server Administration Console 12c**

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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4. Click on Providers.

**ORACLE WebLogic Server Administration Console 12c**

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

### Settings for myrealm

**Providers** | Migration

General | RBMS Security Store | User Lockout | Performance | Providers-Tab

Save

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

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

Name: myrealm The name of this security realm. More Info...

Security Model Default: DD Only Specifies the default security model for Web applications or EJBs that are secured by this security realm. You can override this default during deployment. More Info...

Combined Role Mapping Enabled Determines how the role mappings in the Enterprise Application, Web application, and EJB containers interact. This setting is valid only for Web applications and EJBs that use the Advanced security model and that initialize roles from deployment descriptors. More Info...

Use Authorization Providers to Protect JMX Access Configures the WebLogic Server MBean servers to use the security realm's Authorization providers to determine whether a JMX client has permission to access an MBean attribute or invoke an MBean operation. More Info...

Automatically Restart After Non-Dynamic Changes Specifies whether the Realm will be auto-restarted if non-dynamic changes are made to the realm or providers within the realm. More Info...

Retire Timeout: 60 Specifies the retire timeout for a realm that is restarted. The old realm will be shutdown after the specified timeout period has elapsed. More Info...

Advanced

Save

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5. Click on New

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains navigation panels for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main content area is titled 'Settings for myrealm' and includes tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Providers' tab is active, showing a table of 'Authentication Providers'.

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 version information is displayed: '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 property file) and select the type as FCUBSUserAuthenticator

The screenshot shows the 'Create a New Authentication Provider' dialog box in the Oracle WebLogic Server Administration Console. The dialog has 'OK' and 'Cancel' buttons at the top. Below the title, it states: 'The following properties will be used to identify your new Authentication Provider. \* Indicates required fields'. The 'Name' field is highlighted with a red box and contains the text 'ENTITYID'. The 'Type' dropdown menu is set to 'FCUBSUserAuthenticator'. At the bottom, there are 'OK' and 'Cancel' buttons.

7. Click on Reorder. Bring the Authenticatorprovider to the first in the order and click ok.

**Oracle WebLogic Server Administration Console 12c**

Home > FCUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Providers > ENTITYID > 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:**

- ENTITYID
- FCUBS
- Trust Service Identity Asse
- DefaultAuthenticator
- DefaultIdentityAsserter

OK Cancel

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8. Click the Provider that we have created.

**Oracle WebLogic Server Administration Console 12c**

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

**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

An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS.

**Customize this table**

**Authentication Providers**

New Delete Reorder Showing 1 to 5 of 5 Previous Next

Name	Description	Version
<input checked="" type="checkbox"/> ENTITYID	Authentication provider for FLEXCUBE users	FCUBS 12.2
<input type="checkbox"/> FCUBS	Authentication provider for FLEXCUBE users	FCUBS 12.2
<input type="checkbox"/> Trust Service Identity Asserter	Trust Service Identity Assertion Provider	1.0
<input type="checkbox"/> DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/> DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

New Delete Reorder Showing 1 to 5 of 5 Previous Next

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

**ORACLE WebLogic Server Administration Console 12c**

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

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

**Settings for ENTITYYID**

**Configuration**

Common Provider Specific

Save

This page allows you to define the general configuration of this provider.

**Name:** ENTITYYID

**Description:** Authentication provider for FLEXCUBE users

**Version:** FCUBS 12.2

**Control Flag:** SUFFICIENT

Save

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10. Select the provider specific tab .

**ORACLE WebLogic Server Administration Console 12c**

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

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

**Settings for ENTITYYID**

**Configuration**

Common **Provider Specific**

Save

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

**Ldap Server Jp And Port:** localhost389

**JNDIName:** jdbc/fcjdevDS

External Password Required

**Ldap Server Time Out Duration:** 0

Multi Entity Enabled

**Security Authentication Type:** simple

**Entity Id:** ENT1

**Ldap Domain Name:** OFSS.COM

Ldap SSLEnabled

Hsad Or Ldap Login Required

**Authentication Type:** MSAD

Save

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

ORACLE WebLogic Server Administration Console 12c

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

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Ldap Server Ip And Port: localhost:389

JNDI Name: jdbc/fc/devDS

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSL Enabled

Msad Or Ldap Login Required

Authentication Type: MSAD

Save

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

ORACLE WebLogic Server Administration Console 12c

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

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Ldap Server Ip And Port: localhost:389

JNDI Name: jdbc/fc/devDS

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSL Enabled

Msad Or Ldap Login Required

Authentication Type: MSAD

Save

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13. Create the new datasource for each entity with the JNDI name which we mapped in the property file.
14. Restart the Admin server
15. Continue the step1 to step15 for each provider creation in multientity scenario.



## 1.2.5 Configuring DBAdapter

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

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

The screenshot shows the Oracle WebLogic Server Administration Console. 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 this is a table of deployments with columns for Name, State, Health, Type, Targets, and Deployment Order. The 'DbAdapter' entry is highlighted.

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bui	Active	OK	Enterprise Application	soa_server1	313
BamComposer	New		Enterprise Application	bam_server1	500
BamCQService	New		Enterprise Application	bam_server1	300
BamServer	New		Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUSSApp (12.1.0.0)	Prepared	OK	Enterprise Application	soa_server1	500

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

The screenshot shows the 'Settings for DbAdapter' page in the Oracle WebLogic Server Administration Console. The 'Configuration' tab is active, and the 'Outbound Connection Pools' sub-tab is selected. Below this is a table of Outbound Connection Pool Configuration with columns for Groups and Instances and Connection Factory Interface.

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

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

4. Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
5. Click 'New' and select 'javax.resource.cci.ConnectionFactory' in Outbound Connection Group.
6. Define 'JNDI Name' as 'eis/DB/FCCDEV' and click on 'Finish'.



- The 'jndi name' should be the same as the one in 'Dbutility sub-process'.
7. Click 'DbAdapter' again. Click 'Configuration' tab and select 'Outbound Connection Pools'.
  8. Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
  9. The new JNDI name is listed.
  10. Click on the hyperlink 'eis/DB/FCCDEV'.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the configuration for 'javax.resource.cci.ConnectionFactory'. The 'Properties' tab is selected, showing a table of 'Outbound Connection Properties'. The table has four columns: 'Property Name', 'Property Type', 'Property Value', and 'Supports Dynamic Updates'. The 'DataSourceName' property is highlighted, with its value 'jdbc/fcdevDS'.

Property Name	Property Type	Property Value	Supports Dynamic Updates
DataSourceName	java.lang.String	jdbc/fcdevDS	false
DefaultChar	java.lang.Boolean	false	false
PlatformClassName	java.lang.String	org.edpsr.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

11. Click the 'Property Value' field for the 'DataSourceName' and update the application JNDI reference (given in 'fcubs.properties' file) and then press 'Enter' key.
12. Save and restart the Admin server.

## 1.2.6 Configuring JMS Adapter

1. Login in to console → Click on JMS Servers→New

The screenshot shows the Oracle WebLogic Server Administration Console 12c Home Page. The left sidebar contains navigation panels for 'Change Center', 'Domain Structure', 'How do I...', 'System Status', and 'Health of Running Servers'. The main content area is titled 'Home Page' and includes sections for 'Information and Resources', 'Domain Configurations', 'Environment', 'Services', 'Interoperability', 'Diagnostics', and 'Charts and Graphs'. In the 'Services' section, 'JMS Servers' is highlighted with a red circle.

The screenshot shows the 'Summary of JMS Servers' page in the Oracle WebLogic Server Administration Console 12c. The page provides an overview of JMS servers and includes a table listing the configured servers. The table has columns for Name, Persistent Store, Target, Current Target, and Health. A 'New' button is circled in red above the table.

Name	Persistent Store	Target	Current Target	Health
BamAlertEngineJmsServer	BamAlertEngineJmsFileStore	BAMServer	BAMServer	
BamCQServiceJmsServer_BAMServer	BamCQServiceJmsFileStore_BAMServer	BAMServer	BAMServer	
BamReportCacheJmsServer	BamReportCacheJmsFileStore	BAMServer	BAMServer	
BamServerJmsServer_BAMServer	BamServerJmsFileStore_BAMServer	BAMServer	BAMServer	
BPMJmsServer	BPMJmsFileStore	SOAServer	SOAServer	OK
SOAJmsServer	SOAJmsFileStore	SOAServer	SOAServer	OK
UMSJmsServer_auto_1	UMSJmsFileStore_auto_1	BAMServer	BAMServer	
UMSJmsServer_auto_2	UMSJmsFileStore_auto_2	SOAServer	SOAServer	OK

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

The screenshot shows the Oracle WebLogic Server Administration Console at the 'Create a New JMS Server' wizard. The 'JMS Server Properties' step is active, where the 'Name' field is set to 'FCUBSJMServer' and the 'Persistent Store' dropdown is set to 'SOAJMSFileStore'. The 'System Status' panel on the left shows the health of running servers: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (2).

3. Select the target as SOA Server →Finish

The screenshot shows the Oracle WebLogic Server Administration Console at the 'Create a New JMS Server' wizard. The 'Select targets' step is active, where the 'Target' dropdown is set to 'SOA Server'. The 'System Status' panel on the left shows the health of running servers: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (1).

Oracle WebLogic Server Administration Console 12c

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)

Name	Persistent Store	Target	Current Target	Health
BanAlertEngineJmsServ	BanAlertEngineJmsFileStore	BAMServer	BAMServer	
BanCQServiceJmsServer_BAMServer	BanCQServiceJmsFileStore_BAMServer	BAMServer	BAMServer	
BanReportCacheJmsServer	BanReportCacheJmsFileStore	BAMServer	BAMServer	
BanServerJmsServer_BAMServer	BanServerJmsFileStore_BAMServer	BAMServer	BAMServer	
BPMJMSServer	BPMJMSFileStore	SOAServer	SOAServer	OK
FCUBSJMSServer	SOAJMSFileStore	SOAServer	SOAServer	OK
SOAJMSServer	SOAJMSFileStore	SOAServer	SOAServer	OK
UMSJMSServer_auto_1	UMSJMSFileStore_auto_1	BAMServer	BAMServer	
UMSJMSServer_auto_2	UMSJMSFileStore_auto_2	SOAServer	SOAServer	OK

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#### 4. Go back to Console →JMS Modules→New

Oracle WebLogic Server Administration Console 12c

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

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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The screenshot shows the Oracle WebLogic Server Administration Console 12c interface. The main content area is titled "Summary of JMS Modules". It contains a table of existing JMS modules. The "New" button at the top left of the table is circled in red. The table lists the following modules:

Name	Type
BamAlertEngineJmsSystemModule	System
BamCQServiceJmsSystemResource_BAMServer	System
BamReportCacheJmsSystemModule	System
BamServerJmsSystemResource	System
BPMJMSModule	System
SOAJMSModule	System
UIMSQAQJMSSystemResource	System
UIMSJMSSystemResource	System

On the left side, the "Domain Structure" tree shows the hierarchy: Environment > Servers > Clusters > JMS Servers > JMS Modules. The "System Status" section shows 2 servers in an "OK" state.

5. Create a JMS Module with the Name, FCUBSJMSModule. Click on Next → Select the target as SOA Server → Finish

The screenshot shows the "Create JMS System Module" wizard in the Oracle WebLogic Server Administration Console 12c. The wizard is at the "Name" step. The "Name" field is filled with "FCUBSJMSModule". The "Descriptor File Name" and "Location In Domain" fields are empty. The "Next" button is highlighted.

The wizard text reads: "The following properties will be used to identify your new module." and "What would you like to name your System Module?".

The "Name" field contains:

The "Descriptor File Name" field is:

The "Location In Domain" field is:

soa-infra (SOA Infrastruct... x FC121IQR2 (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\_actionOverride=/com/bee/console/actions/jms/modules/syst... Google

**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 JMS system modules  
- Configure JMS servers

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

**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"/> BAMServers
<input checked="" type="checkbox"/> SOAServer

Back Next Finish Cancel

WebLogic Server Version: 12.1.3.0.0

soa-infra (SOA Infrastruct... x FC121IQR2 (Oracle Web... x Settings for FCUBSJMSM... 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=JMSSystemModuleConfigGeneralPage&JMSSystemModuleConfigGen... 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 > FCUBSJMSModule

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

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

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

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

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

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

**Customize this table**

**Summary of Resources**  
New Delete Showing 0 to 0 of 0 Previous Next

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

New Delete Showing 0 to 0 of 0 Previous Next

**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)

6. Go back to JMS Modules→FCUBSJMSModule→New

Oracle WebLogic Server Administration Console 12c

Settings for FCUBSJMSModule

Name: FCUBSJMSModule

Descriptor File Name: jms/foajmsmodule-jms.xml

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

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

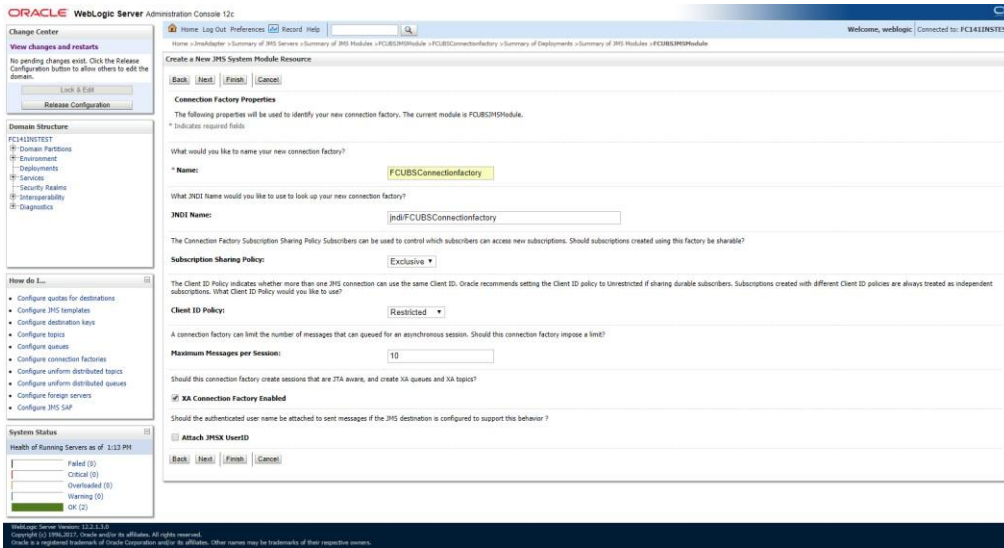
Oracle WebLogic Server Administration Console 12c

Create a New JMS System Module Resource

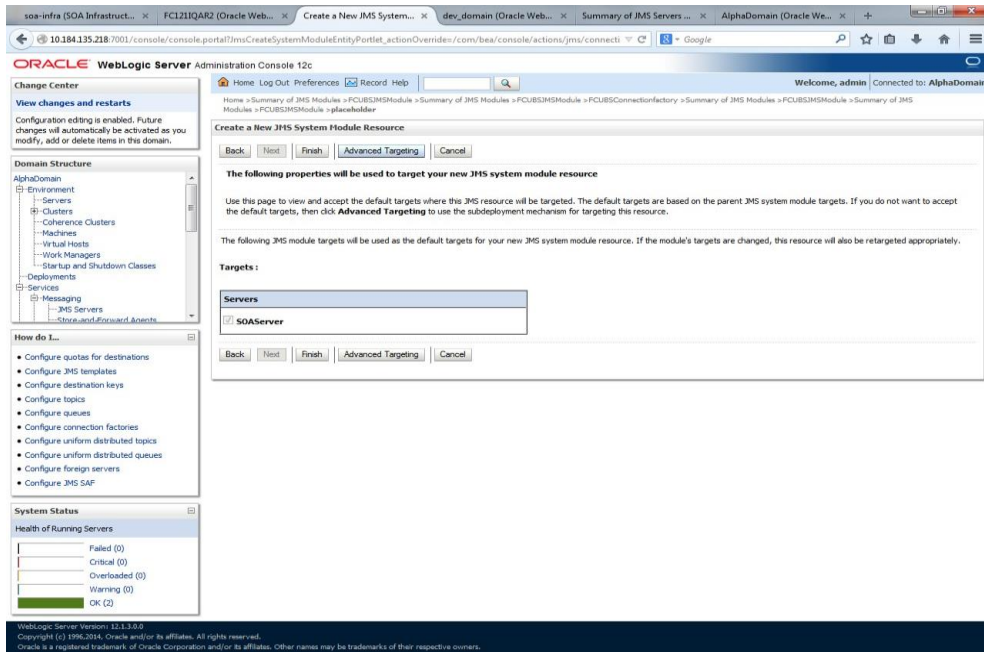
Choose the type of resource you want to create.

- Connection Factory: Defines a set of connection configuration parameters that are used to create connections for JMS clients.
- Queue: Defines a point-to-point destination type, which are used for asynchronous peer communications.
- Topic: Defines a publish/subscribe destination type, which are used for asynchronous peer communications.
- 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.
- 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.
- Foreign Server: Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain.
- Quota: Controls the allotment of system resources available to destinations.
- Destination Sort Key: Defines a unique sort order that destinations can apply to arriving messages.
- JMS Template: Defines a set of default configuration settings for multiple destinations.
- SAF Imported Destinations: Defines a collection of imported store-and-forward (SAF) destinations.
- Remote SAF Context: Defines the URL of the remote server instance or cluster where a JMS





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



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**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

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

soa-infra (SOA Infrastruct... x FC121IQAR2 (Oracle Web... x Create a New Subdepl... 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

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 Subdeployment  
 OK Cancel

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

Subdeployment Name: FCUBS

OK Cancel

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soa-infra (SOA Infrastruct... x FCI21IQR2 (Oracle Web... x Create a New JMS System... x dev\_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?jmsCreateSystemModuleEntityPortlet\_actionOverrides/com/bean/console/actions/jms/target/cr

**ORACLE WebLogic Server Administration Console 12c**

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

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

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

How do I...  

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

System Status  
Health of Running Servers  

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

Create a New JMS System Module Resource  
[Back] [Next] [Finish] [Cancel]

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

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

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

Subdeployments: [FCUBS] [Create a New Subdeployment]

What targets do you want to assign to this subdeployment?

Targets:

Servers  
 SOAServer

JMS Servers  
 BPMJMServer  
 FCUBSJMServer  
 SOAJMServer  
 UMSJMServer\_auto\_2

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

soa-infra (SOA Infrastruct... x FCI21IQR2 (Oracle Web... x Settings for FCUBSJMSM... 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=JMSSystemModuleConfigGeneralPage

**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...  
No task help found.

System Status  
Health of Running Servers  

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

Settings for FCUBSJMSModule  
[Configuration] [Subdeployments] [Targets] [Security] [Notes]

Messages  

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

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

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

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

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

Customize this table

Summary of Resources  
[New] [Delete] Showing 1 to 1 of 1 Previous | Next

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

[New] [Delete] Showing 1 to 1 of 1 Previous | Next

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**Oracle WebLogic Server Administration Console 12c**

Home > 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**

Showing 1 to 1 of 1 Previous | Next

Name	Type	JNDI Name	Subdeployment	Targets
FCUBSConnectionFactory	Connection Factory	jnd/FCUBSConnectionFactory	FCUBS	FCUBSJMSModule

Showing 1 to 1 of 1 Previous | Next

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

soa-infra (SOA Infrastruct... x) FC121IQR2 (Oracle Web... x) Create a New JMS System... 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=JMSCreateSystemModuleEntityPortlet\_actionOverride=/com/bsa/console/actions/jms/destinati

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 destination is exported from. It also contains the security credentials to be authenticated and authorized in the remote cluster or server. [More Info...](#)
- SAF Error Handling** Defines the action to take when the SAF service fails to forward messages to remote destinations. [More Info...](#)

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10. 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

**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  
      - 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

**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

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**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  
      - Virtual Hosts  
      - Work Managers  
    - Startup and Shutdown Classes  
  - Deployments  
  - Services  
    - Messaging  
      - JMS Servers  
      - Store-and-Forward Agents

**How do I...?**

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

**System Status**  
Health of Running Servers

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

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

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

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

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

**Subdeployments:** FCUBS | Create a New Subdeployment

What targets do you want to assign to this subdeployment?

**Targets:**

JMS Servers
<input type="radio"/> BPHJMServer
<input checked="" type="radio"/> FCUBSJMServer
<input type="radio"/> SOAJMServer
<input type="radio"/> UMSJMServer_auto_2

Back | Next | Finish | Cancel

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The screenshot shows the Oracle WebLogic Server Administration Console for the FCUBSJMSModule. The main content area is titled "Settings for FCUBSJMSModule" and includes a "Configuration" tab. Below this, there is a "Summary of Resources" table with the following data:

Name	Type	JNDI Name	Subdeployment	Targets
FCUBSConnectionFactory	Connection Factory	jms/FCUBSConnectionFactory	FCUBS	FCUBSJMSServer
NOTIFY_DEST_QUEUE	Queue	jms/NOTIFY_DEST_QUEUE	FCUBS	FCUBSJMSServer

11. Please create queue MDB\_QUEUE\_RESPONSE with JNDI name as `jms/MDB_QUEUE_RESPONSE`, queue eis/jms/ORGateway with JNDI name as `eis/jms/ORGateway`, and queue FAULT\_QUEUE\_RESPONSE with JNDI name as `jms/FAULT_QUEUE_RESPONSE` as above in console within FCUBSJMSModule. (Follow step 8-9 in 1.2.6)
12. Go to Console → Deployment → JmsAdapter → Configuration → Outbound Connection Pool → Expand `oracle.tip.adapter.jms.IJmsConnectionFactory` → New → Provide JNDI as `'eis/Queue/Notif'` → next → Finish

Application Name	Status	Health	Application Type	Server	Port
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOA Server	5
dem	Active	OK	Enterprise Application	AdminServer	400
FCUBSAppIUT (12.1.0.0.0)	Active	Warning	Enterprise Application	SOA Server	600
FileAdapter	Active	OK	Resource Adapter	SOA Server	321
frevio	Active	OK	Enterprise Application	SOA Server	100
FtpAdapter	Active	OK	Resource Adapter	SOA Server	325
GWWebServices (12.1.0.0.0)	Active	OK	Enterprise Application	SOA Server	600
JDEWorldAdapter	Installed		Resource Adapter		333
JmsAdapter	Active	OK	Resource Adapter	SOA Server	323
LdapAdapt JmsAdapter, Level 1, 19 of 46	Installed		Resource Adapter		332
MQSeriesAdapter	Active	OK	Resource Adapter	SOA Server	327
MSMQAdapter	Installed		Resource Adapter		334
OAAPredictionService	Active	OK	Enterprise Application	SOA Server	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOA Server	328
OracleBamAdapter	Installed		Resource Adapter		329
OracleBPMBACServerApp	Active	OK	Enterprise Application	SOA Server	384
OracleBPMComposerRolesApp	Active	OK	Enterprise Application	SOA Server	382
OracleBPMProcessRolesApp	Active	OK	Enterprise Application	SOA Server	381
OracleBPMWorkSpace	Active	OK	Enterprise Application	SOA Server	383
SAPAdapter	Installed		Resource Adapter		335
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOA Server	386
soa-infra	Active	OK	Enterprise Application	SOA Server	350
soa-webapps	Active	OK	Enterprise Application	SOA Server	360

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

soa-infra (SOA Infrastruct... x FCL21IQR2 (Oracle Web... x Settings for JmsAdapter - ... x dev\_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

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

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

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

How do I...  
Configure outbound connection pool properties

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

Home > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > 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/ajqms/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/foranomaq/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/jpramati/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/websspheremq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory

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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

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)

Home > FCUBSJMSModule > placeholder > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter

Create a New Outbound Connection  
Back Next Finish Cancel

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

Outbound Connection Groups  
Showing 1 to 1 of 1 Previous | Next

Outbound Connection Group

oracle.tp.adapter.jms.IJmsConnectionFactory  
Showing 1 to 1 of 1 Previous | Next

Back Next Finish Cancel

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soa-infra (SOA Instruct... x FC121IQR2 (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?ConnectorCreateOutboundConnectionPortlet\_actionOverride=/cm/bea/console/actions/conn

**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 outbound connection pool properties

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

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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: eis/Queue/Notif

Back Next Finish Cancel

soa-infra (SOA Instruct... x FC121IQR2 (Oracle Web... x Settings for JmsAdapter - ... x dev\_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

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

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/ajqms/EDNLocalTDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNLocalTXTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/foranomaq/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiaa2BQueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiaErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/promati/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/Queue/Notif	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/EDNLocalTDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTXTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory

New Delete Showing 1 to 1 of 1 Previous Next

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for oracle.tip.adapter.jms.DmsConnectionFactory' page. The 'Properties' tab is active, showing a table of configuration properties. The 'ConnectionFactoryLocation' property is highlighted, with its value set to 'jndi/FCUBSConnec'. The 'Save' button is visible at the top left of the table.

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

The screenshot shows the Oracle WebLogic Server Administration Console after the configuration has been saved. The 'ConnectionFactoryLocation' property in the table is now 'jndi/FCUBSConnectionFactory'. A message at the top of the main content area states: 'All changes have been activated. No restarts are necessary. Deployment plan has been successfully updated.' The 'Save' button is visible at the bottom left of the table.

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

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main area displays a table of deployments. The table has columns for Name, State, Health, Type, Targets, and Deployment Order. The 'JMS Adapter' application is highlighted in blue.

Name	State	Health	Type	Targets	Deployment Order
AGAdapter	Prepared	OK	Resource Adapter	SOAServer	324
h2bui	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-tr-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
FCUBSAppLUT (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

The screenshot shows the Oracle WebLogic Server Administration Console with the 'Update Application Assistant' dialog box open. The dialog is titled 'Update Application Assistant' and has buttons for 'Back', 'Next', 'Finish', and 'Cancel'. The 'Next' button is highlighted.

The dialog content includes:

- 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/fmw/12c3/soa/soa/connectors/Plan1.xml [Change Path](#)
- Redeploy this application using the following deployment files:
- Source path:** /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/JmsAdapter.rar [Change Path](#)
- Deployment plan path:** /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/Plan1.xml [Change Path](#)

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Summary of Deployments" and contains a table of applications and modules. The table has columns for Name, State, Health, Type, Targets, and Deployment Order. The table lists various components such as AqAdapter, b2bul, BamComposer, BamCQService, BamServer, BPMComposer, coherence-transaction-rar, CoherenceAdapter, DbAdapter, DefaultToDoTaskFlow, and DMS Application.

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	5

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

## 1.2.7 Configuring FTP Adapter

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

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

Groups and Instances	Connection Factory Interface
javax.resource.cd.ConnectionFactory	javax.resource.cd.ConnectionFactory
eis/Ftp/CoherenceHAFtpAdapter	javax.resource.cd.ConnectionFactory
eis/Ftp/FtpAdapter	javax.resource.cd.ConnectionFactory
eis/ftp/FtpAdapterLcl	javax.resource.cd.ConnectionFactory
eis/Ftp/FtpAdapter_JMS	javax.resource.cd.ConnectionFactory
eis/Ftp/FtpsAdapter	javax.resource.cd.ConnectionFactory
eis/Ftp/HAFtpAdapter	javax.resource.cd.ConnectionFactory
eis/Ftp/HAFtpAdapterDB2	javax.resource.cd.ConnectionFactory
eis/Ftp/HAFtpAdapterMSSQL	javax.resource.cd.ConnectionFactory
eis/Ftp/LocalTransactionFtpAdapter	javax.resource.cd.ConnectionFactory

The screenshot shows the Oracle WebLogic Server Administration Console with the "Create a New Outbound Connection" dialog box open. The dialog has a "JNDI name for Outbound Connection Instance" section. Below the heading, there is a text input field labeled "JNDI Name" containing the value "eis/ftp/FtpAdapterLcl". There are "Back", "Next", "Finish", and "Cancel" buttons at the bottom of the dialog.

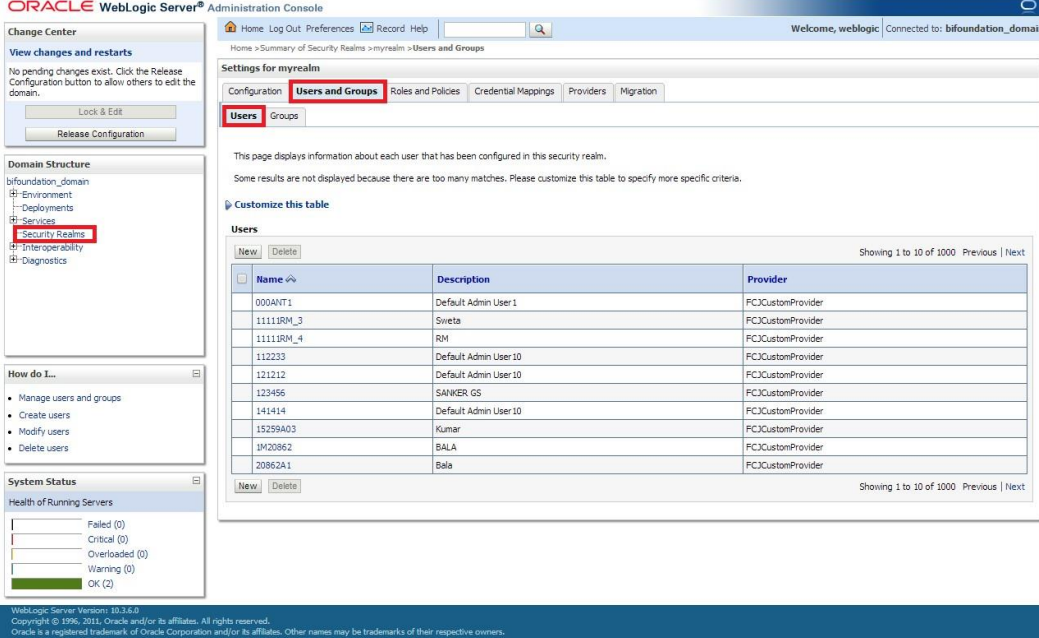
2. Add JNDI name as eis/ftp/FtpAdapterLcl
3. Click finish and save.

## 1.2.7.1 BIP Interactive reports configuration

The Following set of instructions can be followed if the BPEL needs to be configured with BIP interactive reports

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

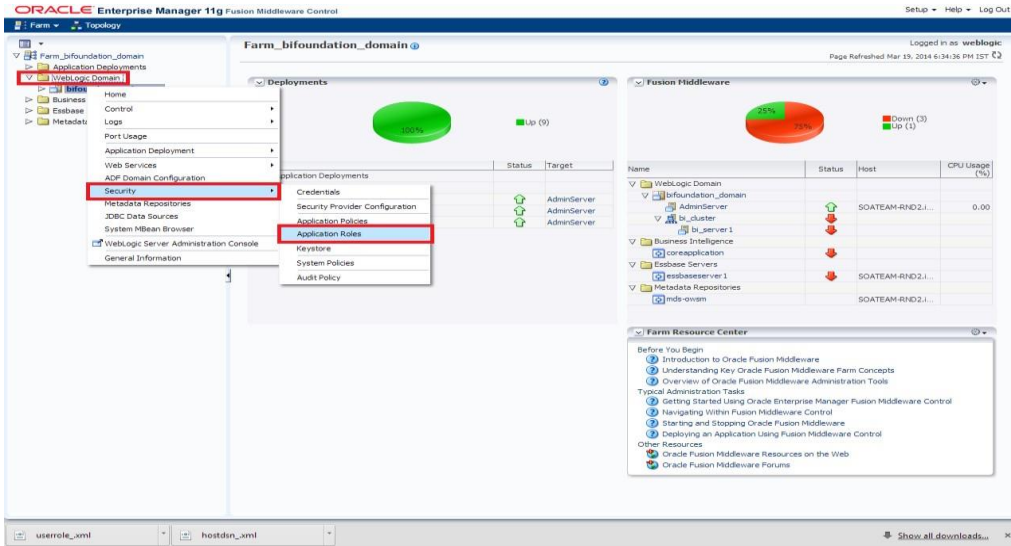
After adding, Navigate to security realms >myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.



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. A table of users is displayed with columns for Name, Description, and Provider. The table contains 10 rows of user data, all with 'FCJCustomProvider' as the provider. The table is paginated, showing 1 to 10 of 1000 users.

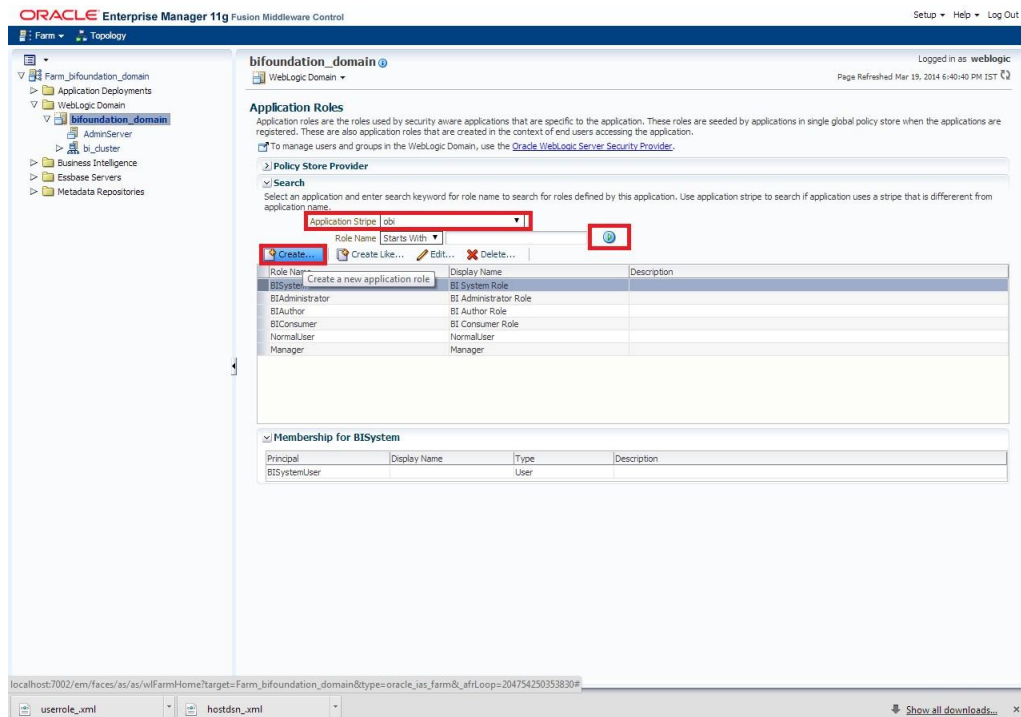
Name	Description	Provider
0004IT1	Default Admin User1	FCJCustomProvider
11111RM_3	Siveta	FCJCustomProvider
11111RM_4	RM	FCJCustomProvider
112233	Default Admin User10	FCJCustomProvider
121212	Default Admin User10	FCJCustomProvider
123456	SANKER GS	FCJCustomProvider
141414	Default Admin User10	FCJCustomProvider
15259A03	Kumar	FCJCustomProvider
JM20862	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

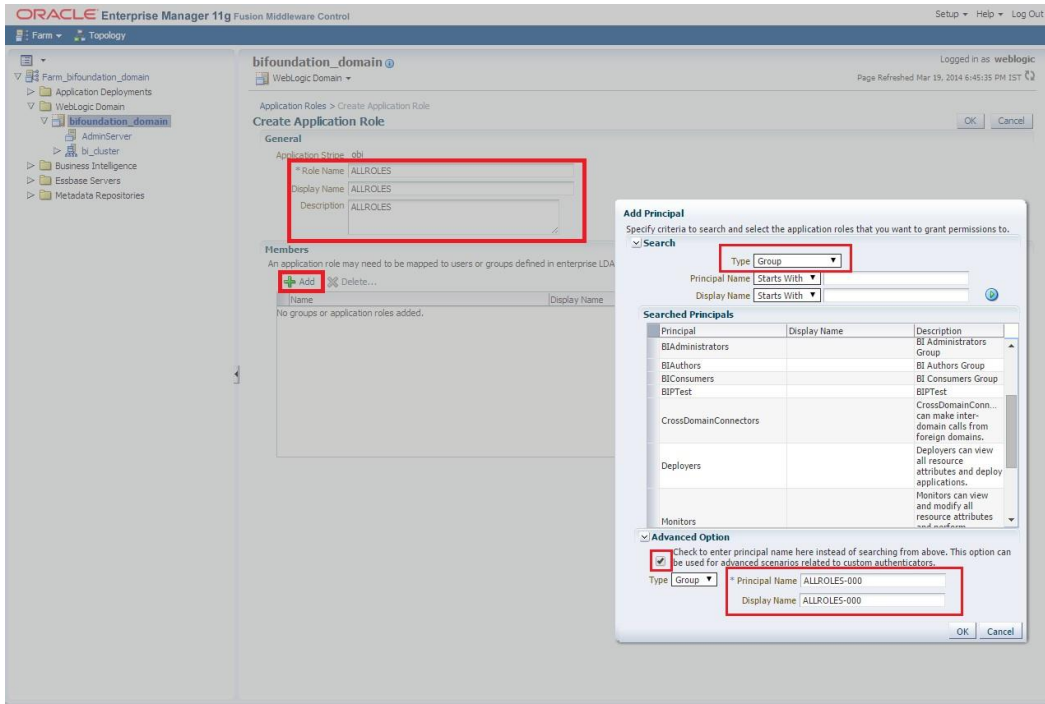


4. After navigating to next screen as in below screenshot,

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

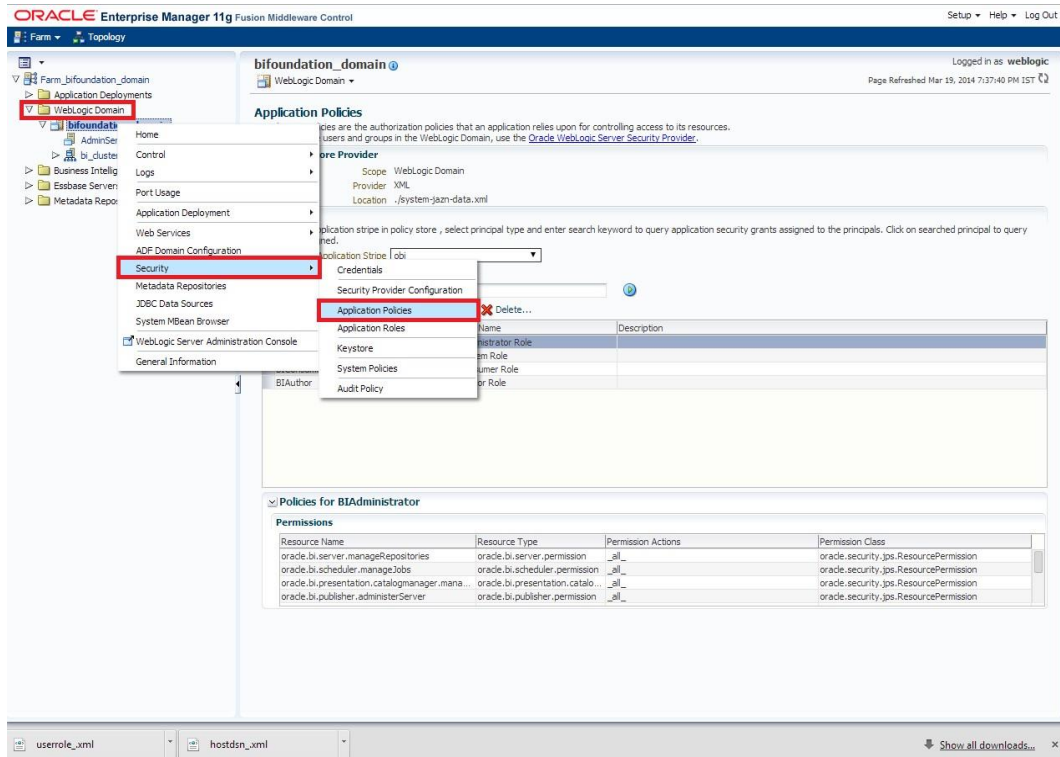


5. After navigating to next screen as in below screenshot,
  - Enter the role name(mandatory), display name(optional), description(optional)
  - Click on the Add button
  - In the Add Principal pop up select type as “Group”
  - In the advanced option check the checkbox and again select the type as “Group” 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.



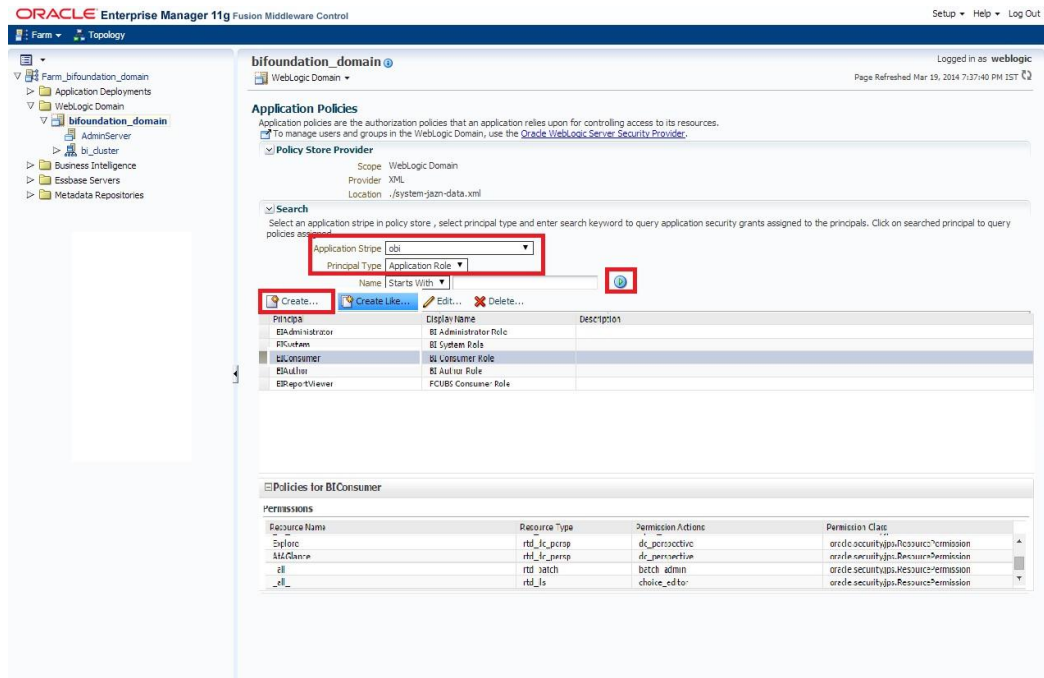
6. After getting information message like “A new role added successfully”, then again
  - Right click on the domain(in which BI suite is installed) under the weblogic domain
  - Go to security and then navigate to application polices





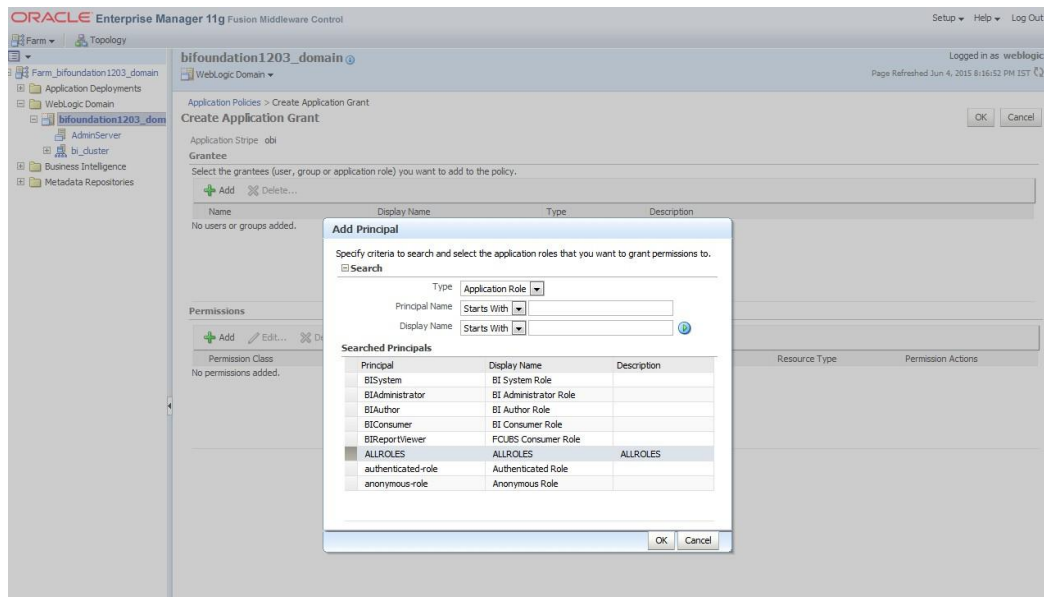
7. After navigating to next screen as per screen shot,

- 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.



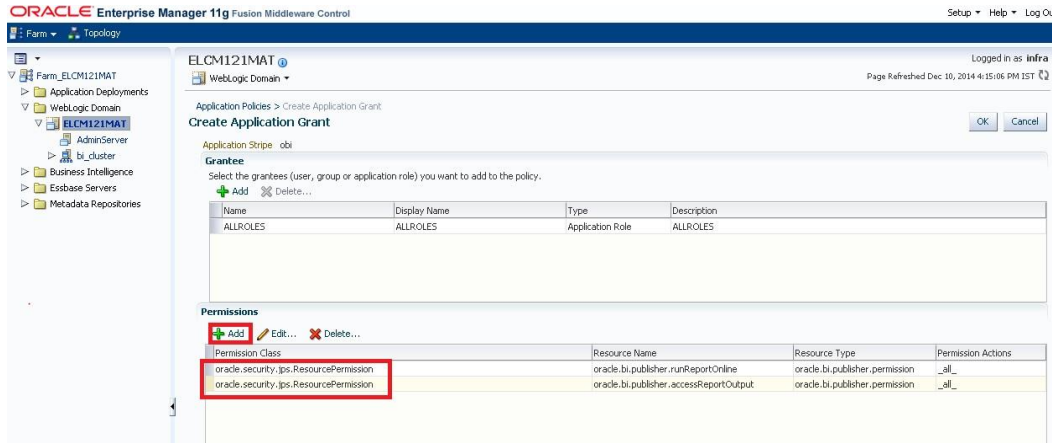
8. After navigating to next screen as per the screen shot,

- 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.



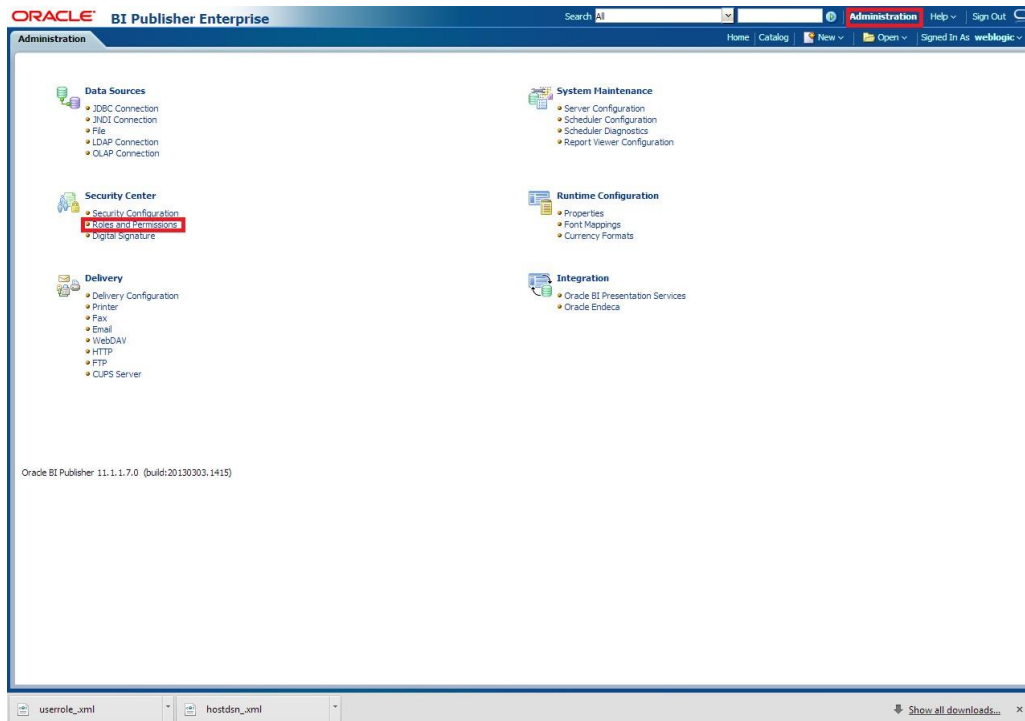
- Click Add button under Permissions and add the two permissions one by one as mentioned below.

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

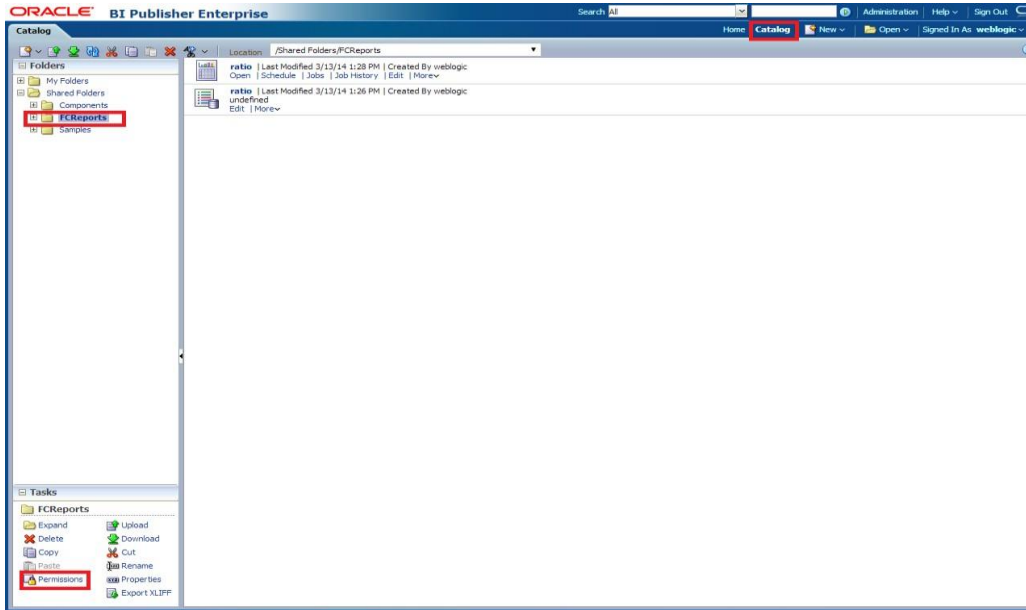


9. After getting information message like “A security added successfully”,

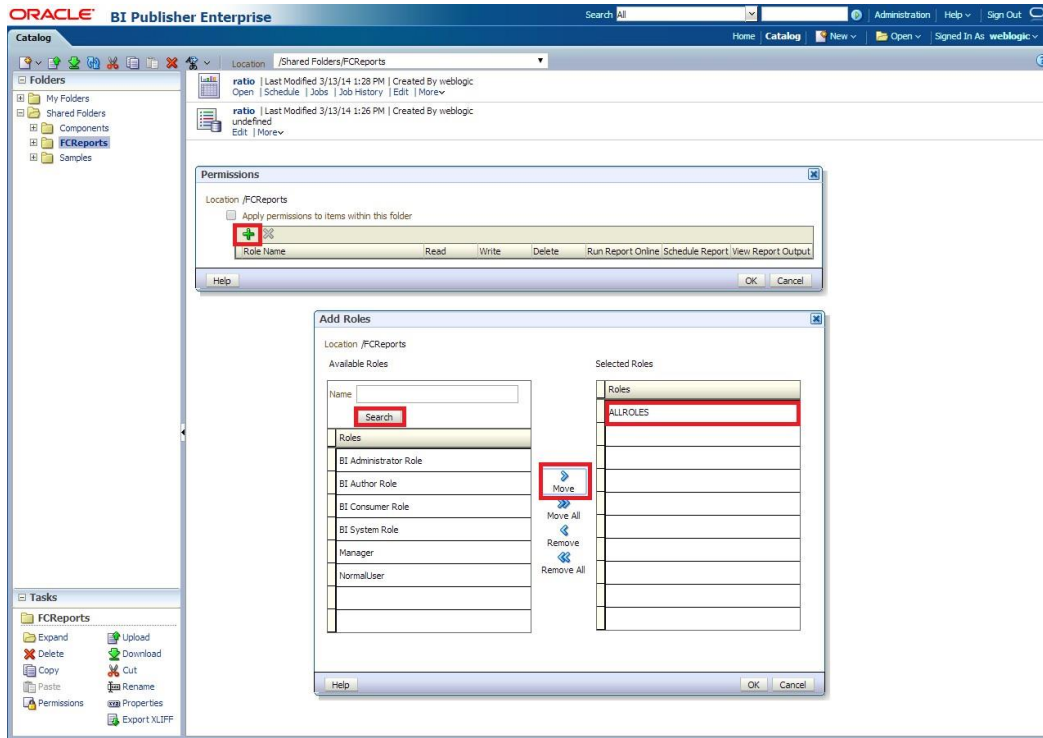
- Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpserver`
- Click on the Administration .
- Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart the servers.



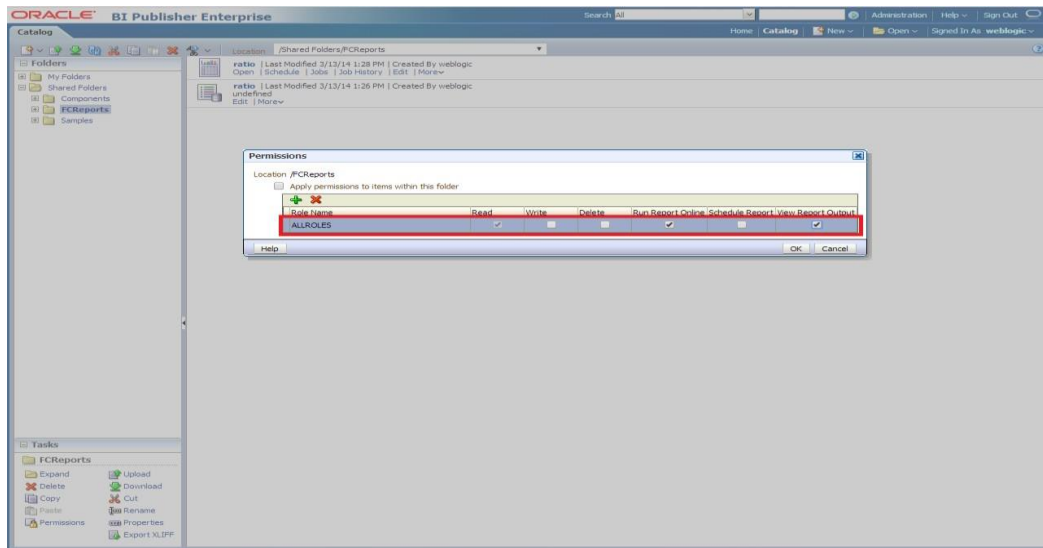
10. Then click on the Catalog , then on the folder that has been created , and then on permissions



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.



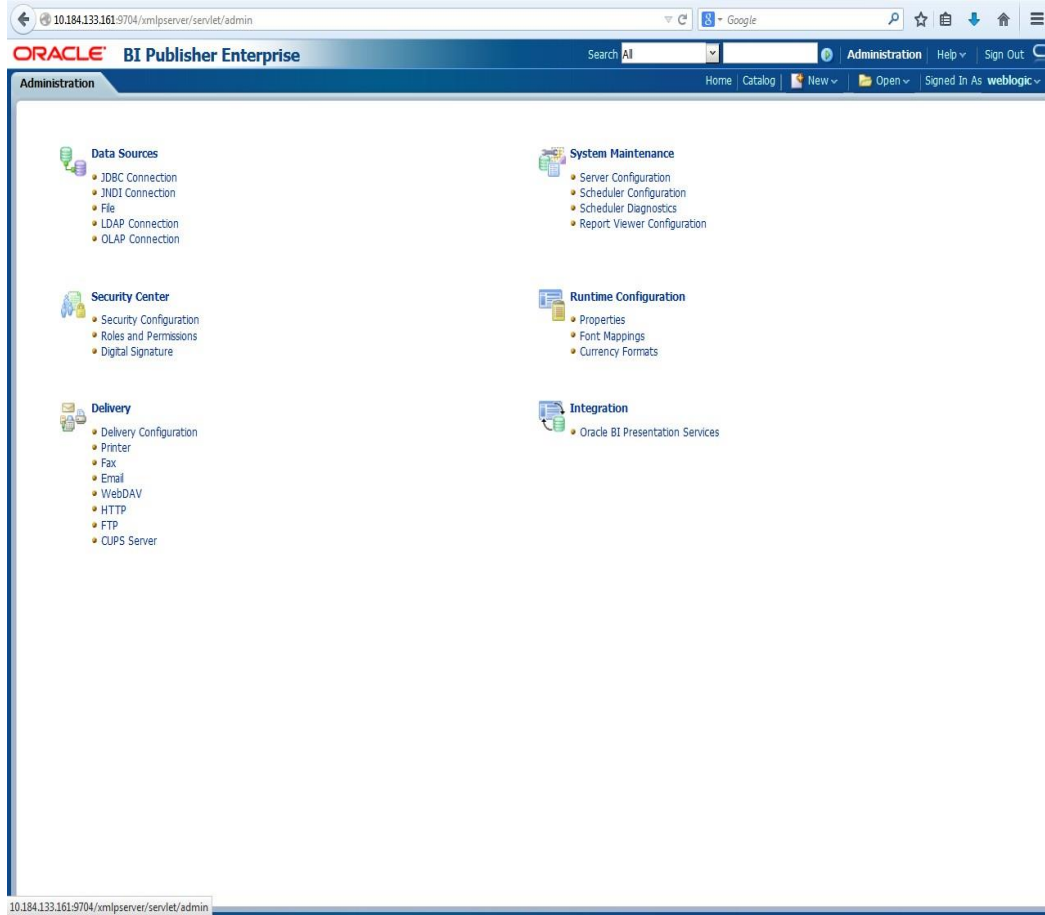
Now the reports in the folder will be accessed accordingly based on the roles.

**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

Home Catalog New Open Signed In As **weblogic**

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

10.184.133.161:9704/xmlsoa/ser/vlet/admin/datasource/connectionhome?vnoe=idbc&:s1km=6ec2d6c614e97518204

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

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 6

Data Source Name	Connection String	Delete
demo	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	
FCOR121UT	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCUBS1203	jdbc:oracle:thin:@10.184.132.137:1521:FCPATCH2	
FCUBS121	jdbc:oracle:thin:@whf00aew: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 6

- 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 > JOBC > Add Data Source

Add Data Source

**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  
 \* 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

**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:

- Add the fcubs roles to allowed Roles under security

**ORACLE BI Publisher Enterprise**

Administration > JOBC > Add Data Source

Add Data Source

**Security**

Allow Guest Access

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

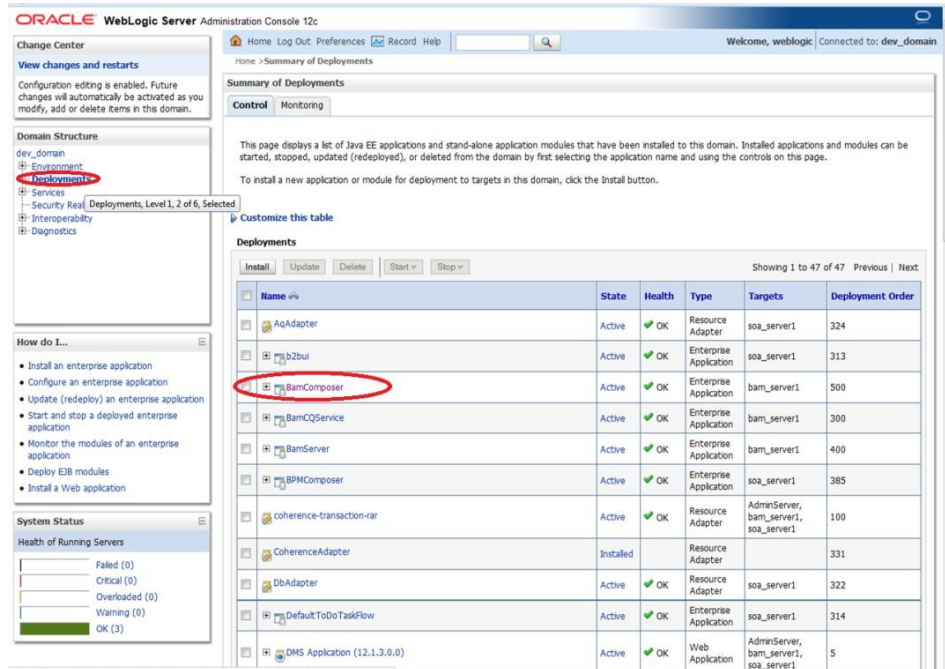
- Click on test connection .once the connection is established succesfully .Click on Apply.



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

## 1.2.8 **BAM Report Configuration settings**

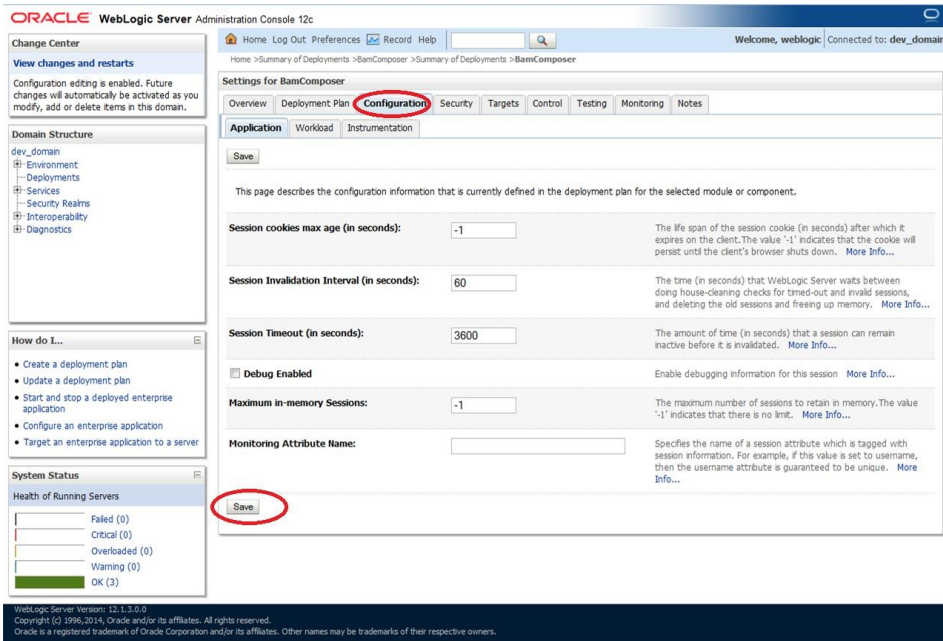
1. The Following set of instructions can be followed if the BPEL need to be configured with BAM reportsGenerate a deployment plan for BAM Composer Application.
2. Login in to console <http://hostname:port/console>
3. Click on Deployments → click on BAM Composer



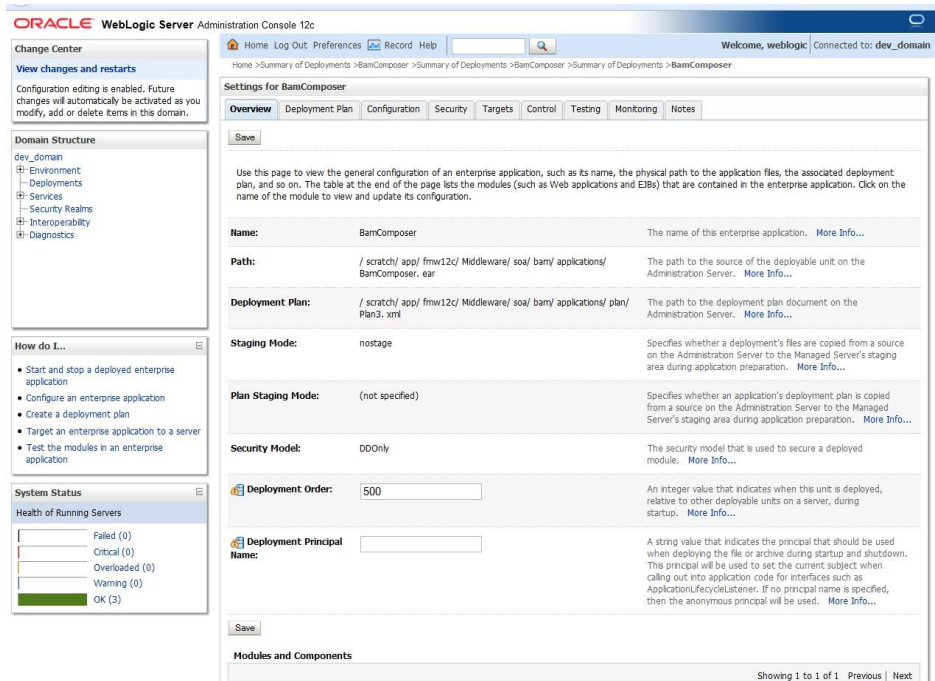
The screenshot shows the Oracle WebLogic Server Administration Console 12c interface. The main content area displays the 'Summary of Deployments' page. On the left sidebar, the 'Domain Structure' tree is visible, with 'Deployments' selected and highlighted in red. Below the tree, there are sections for 'How do I...' and 'System Status'. The main table, titled 'Deployments', lists various applications and their status. The 'bamComposer' entry is circled in red. The table has columns for Name, State, Health, Type, Targets, and Deployment Order.

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

4. click on Configuration Configuration → Save



## 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.

The screenshot shows the Oracle Enterprise Manager console interface. On the left, there are navigation panels for 'Services', 'How do I...', and 'System Status'. The main area displays a 'Deployments' table with columns for Name, Health, Type, Targets, and Deployment Order. The 'BAMComposer' application is selected, and a context menu is open over it, showing options like 'When work completes', 'Force Stop Now', and 'Stop, but continue servicing administration requests'. The 'Force Stop Now' option is circled in red. Below the table, there is a 'Health of Running Servers' section showing various server statuses.

Name	Health	Type	Targets	Deployment Order
AqAdapter	OK	Resource Adapter	soa_server1	324
b2bui	Active	Enterprise Application	soa_server1	313
BAMComposer	Active	Enterprise Application	bam_server1	500
BAMCQService	Active	Enterprise Application	bam_server1	300
BAMServer	Active	Enterprise Application	bam_server1	400
BPMComposer	Active	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	Resource Adapter	AdmnServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed	Resource Adapter		331
DbAdapter	Active	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	Web Application	AdmnServer, bam_server1, soa_server1	5
em	Active	Enterprise Application	AdmnServer	400
FOUBSAppIUT (12.1.0.0.0)	Active	Enterprise Application	soa_server1	600
FOUBSAppSoaEmb (12.1.0.0.0)	Prepared	Enterprise Application	soa_server1	601
FileAdapter	Active	Resource Adapter	soa_server1	321
frevo	Installed	Enterprise Application		100
FileAdapter	Active	Resource	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

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

**Summary of Deployments**

Control Monitoring

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

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

**Customize this table**

**Deployments**

Install Update Delete Start Stop Showing 1 to 47 of 47 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bul	Active	OK	Enterprise Application	soa_server1	313
<b>BamComposer</b>	Active	OK	Enterprise Application	bam_server1	500
BamCQService	Active	OK	Enterprise Application	bam_server1	300
BamServer	Active	OK	Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5

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

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev\_domain

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

**Update Application Assistant**

Back Next Finish Cancel

**Locate new deployment files**

You have elected to update the BamComposer 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/fmw12c/Middleware/soa/bam/applications/plan/Plan3.xml **Change Path**

Redeploy this application using the following deployment files:

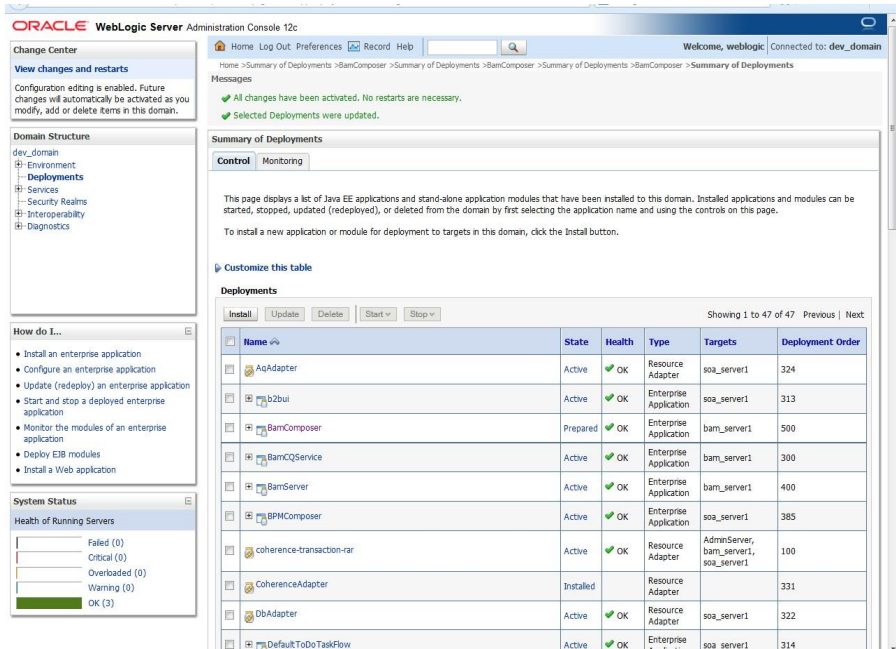
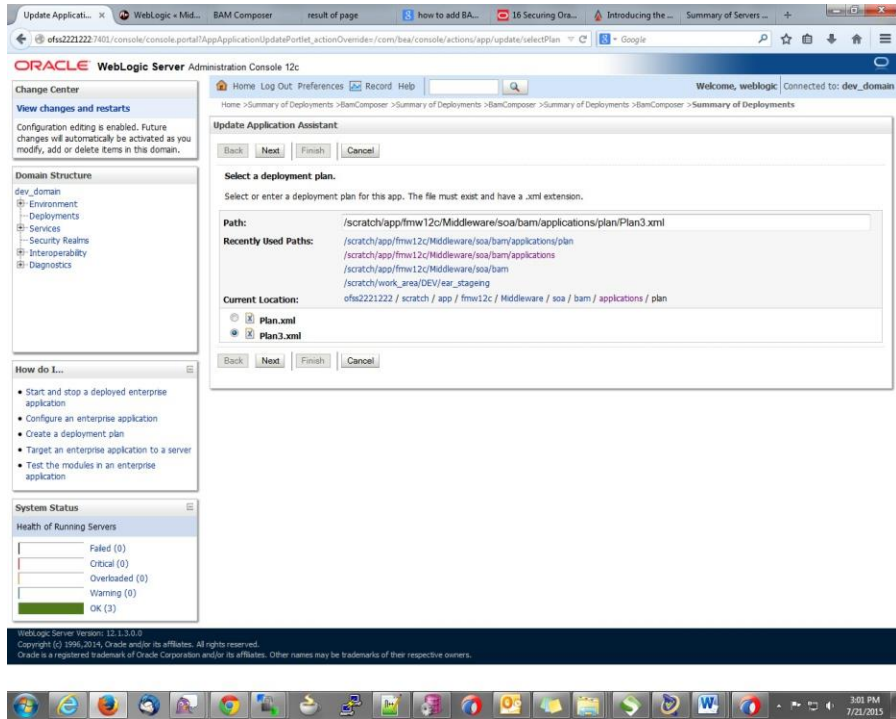
Source path: /scratch/app/fmw12c/Middleware/soa/bam/applications/BamComposer.ear **Change Path**

Deployment plan path: /scratch/app/fmw12c/Middleware/soa/bam/applications/plan/Plan3.xml **Change Path**

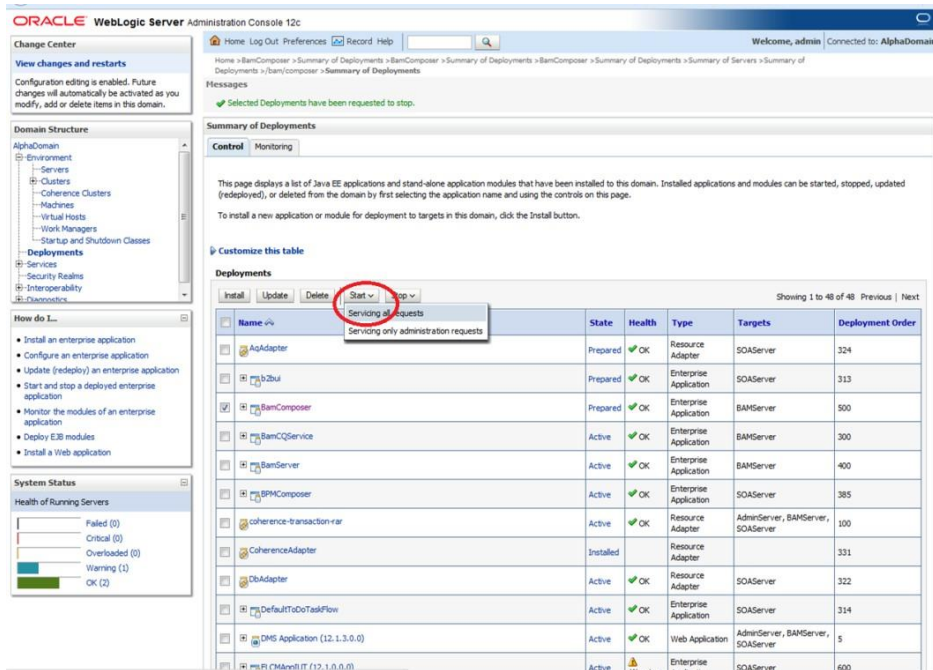
Back Next Finish Cancel

WebLogic Server Version: 12.1.3.0.0  
Copyright (c) 2006-2014, 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.

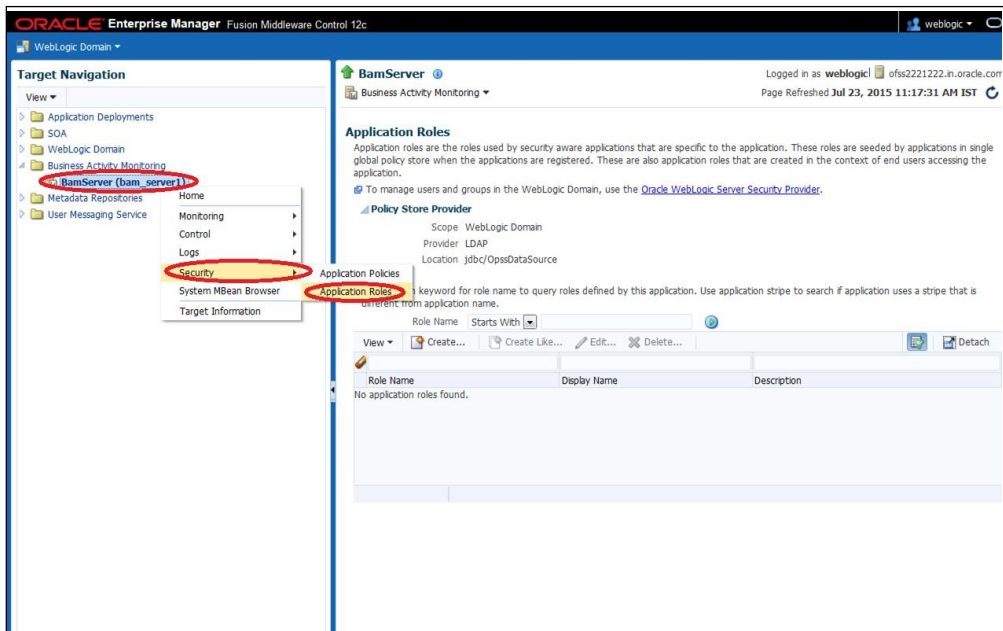
11. Select the latest plan.xml in the in the path → next → next → Finish



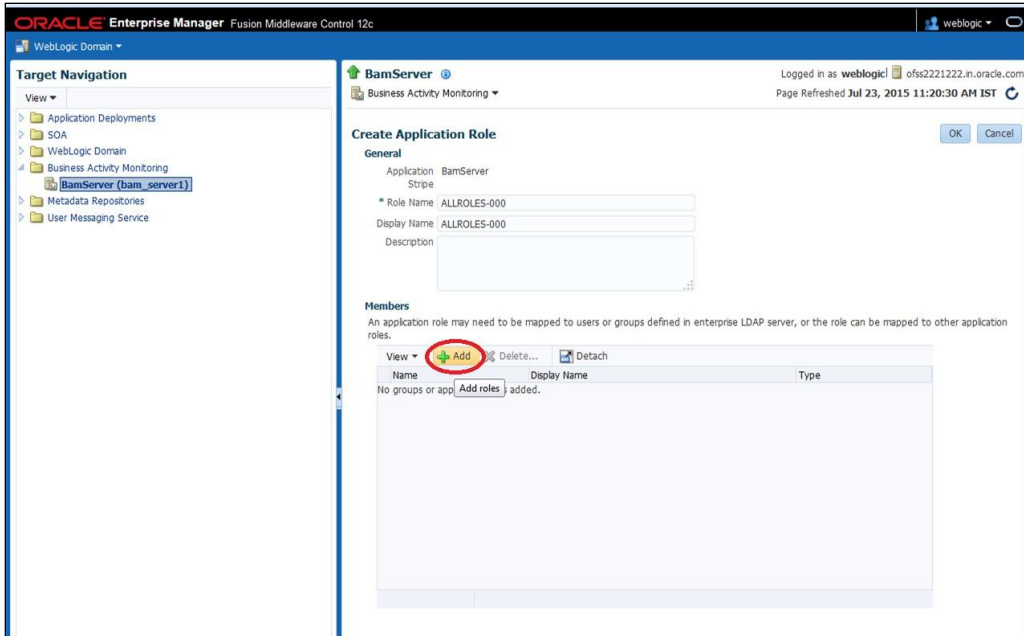
12. Restart the BAM Composer application in the console



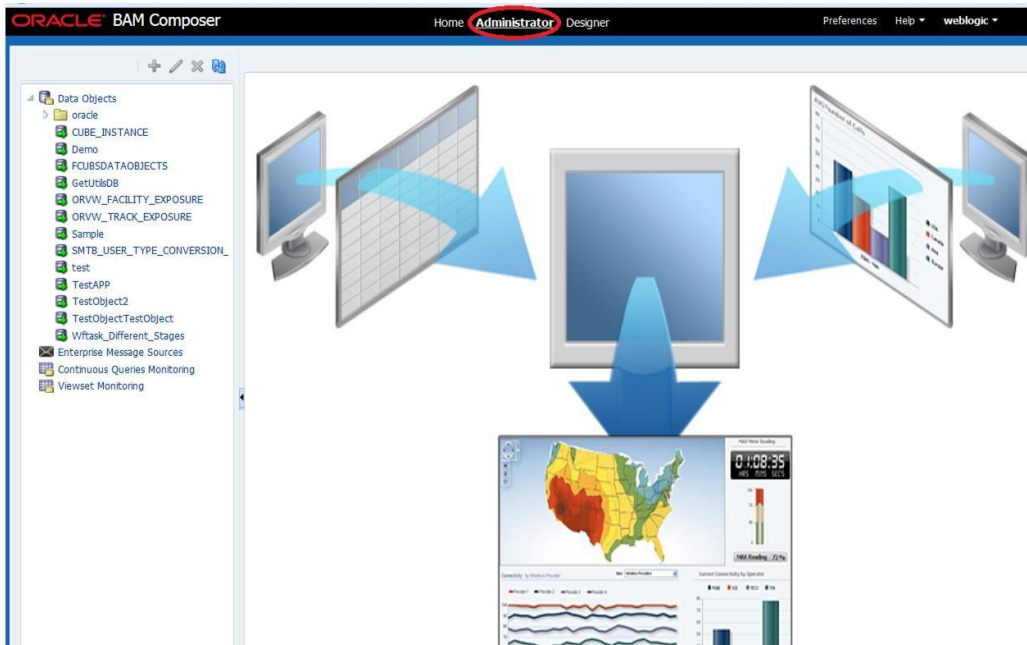
13. Login in to em console <http://hostname:port/em>
14. Right Click on BAM Server → Security → Application Roles



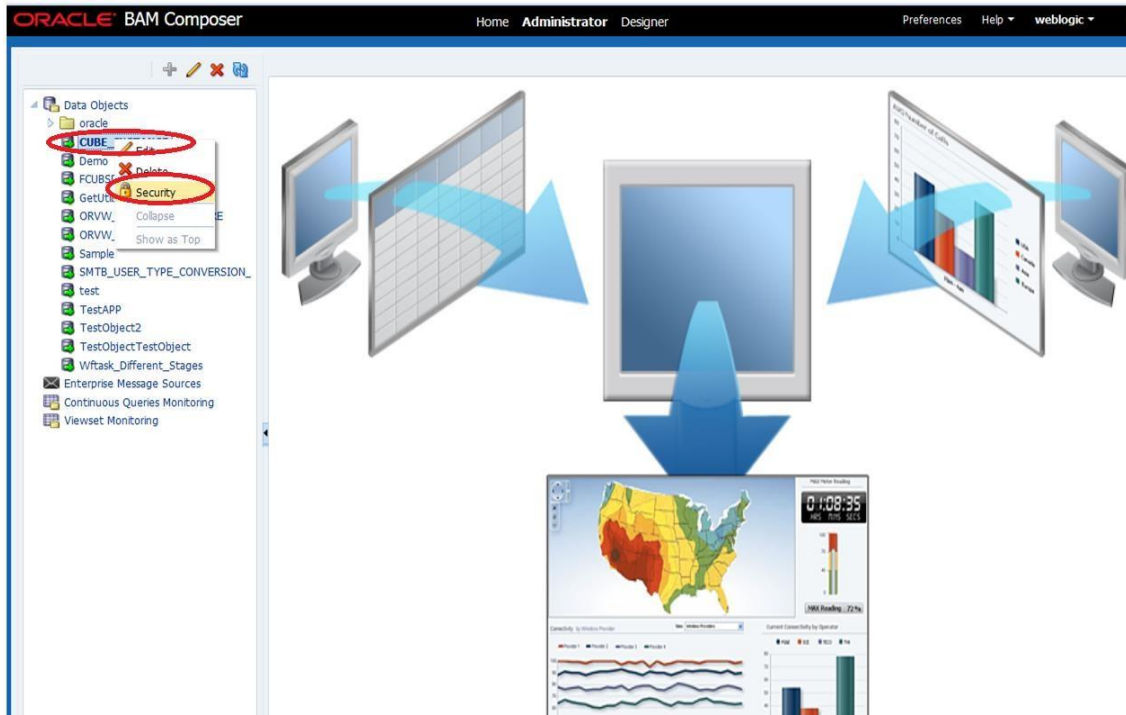
15. Click on Create → create application role with ALL ROLES-000 → Click on ADD button in the Members



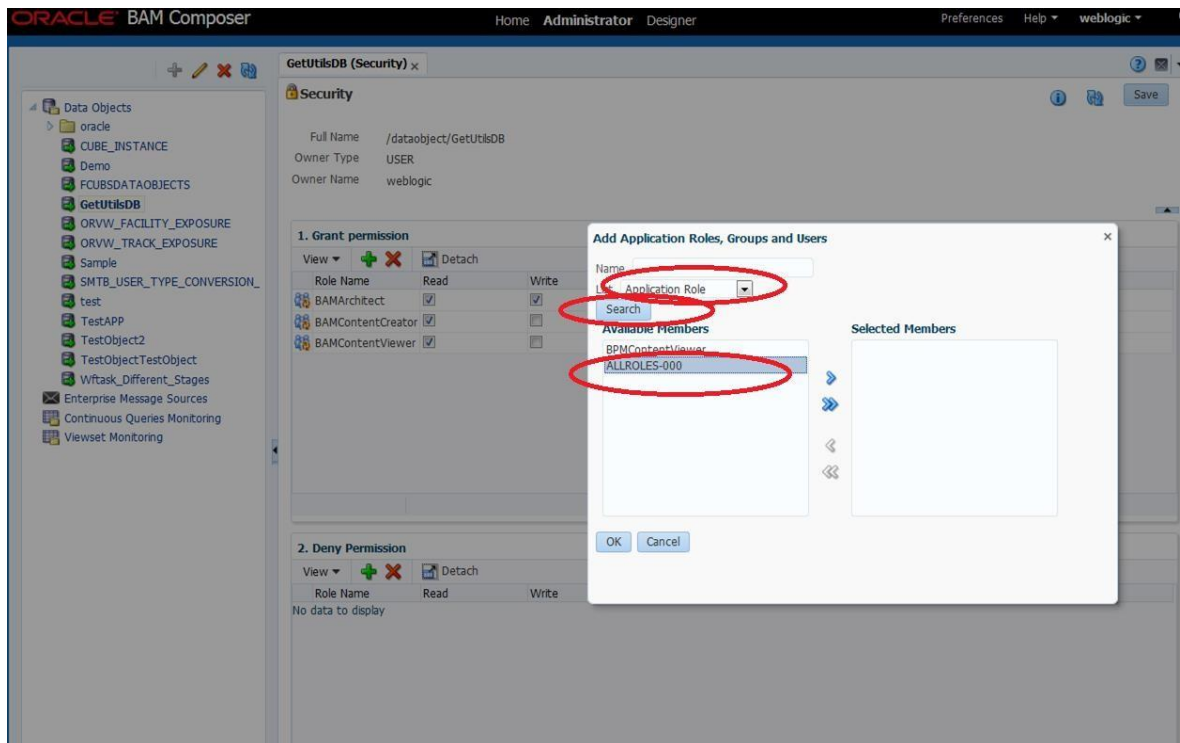
16. Select the Type as Group and add principle details be referring the below screen shot.
17. Login to BAM Composer → <http://hostname:port/bam/composer>--> Click on Administrator.



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

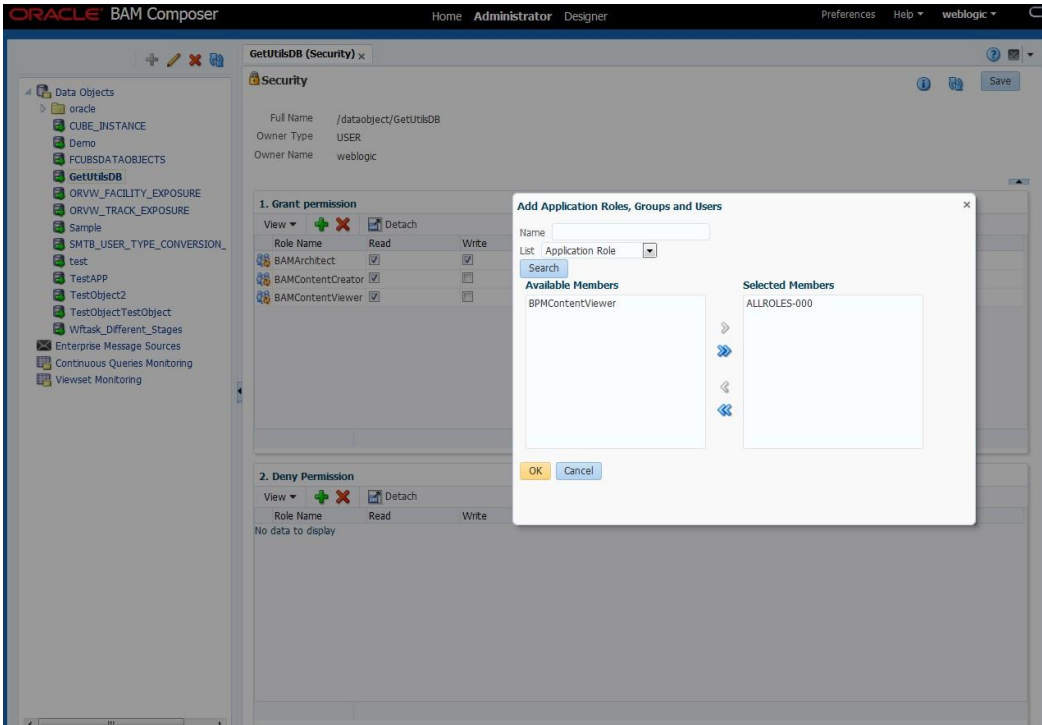


19. Click on Add button under Grant permission and search the list based on the Application Role

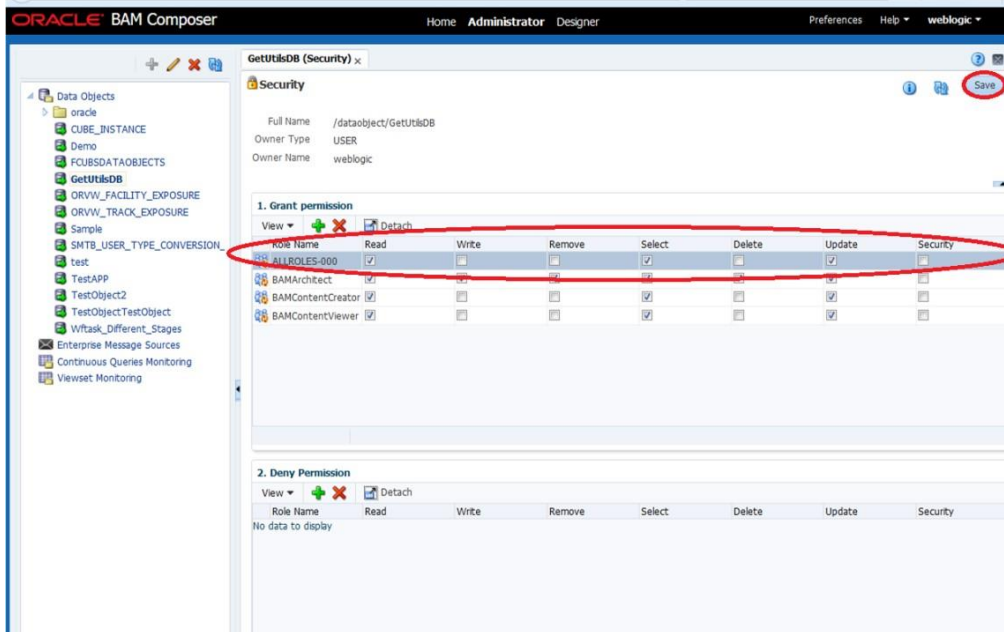




20. Move the ALLROLES-000 to Selected members.

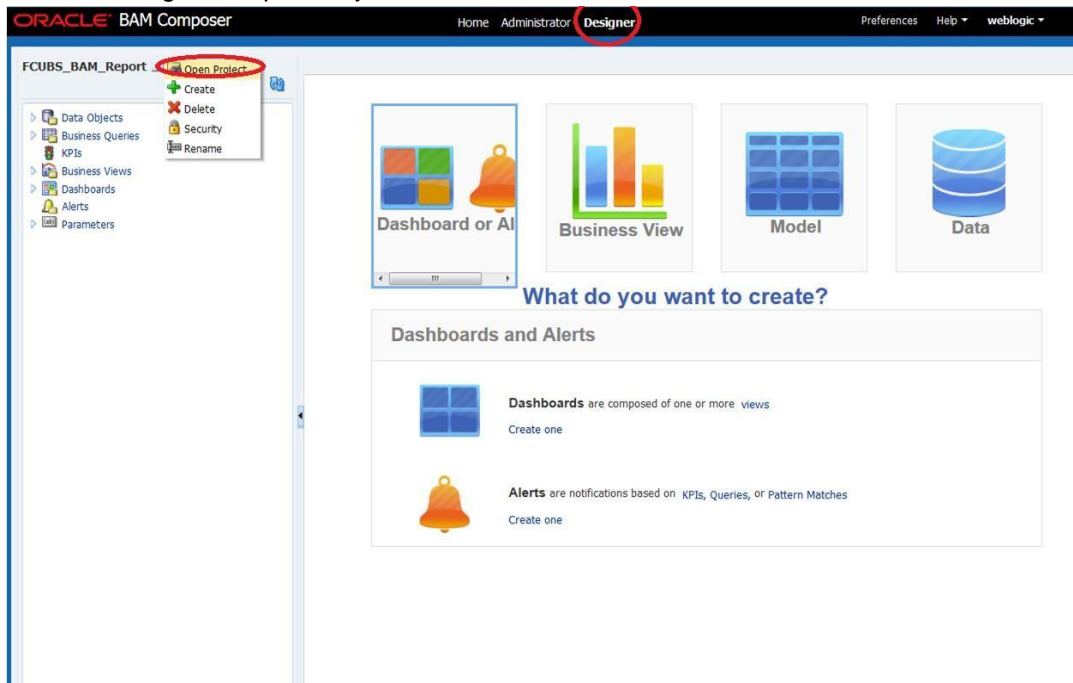


21. Click on read, select and Update check boxes → Click on Save.

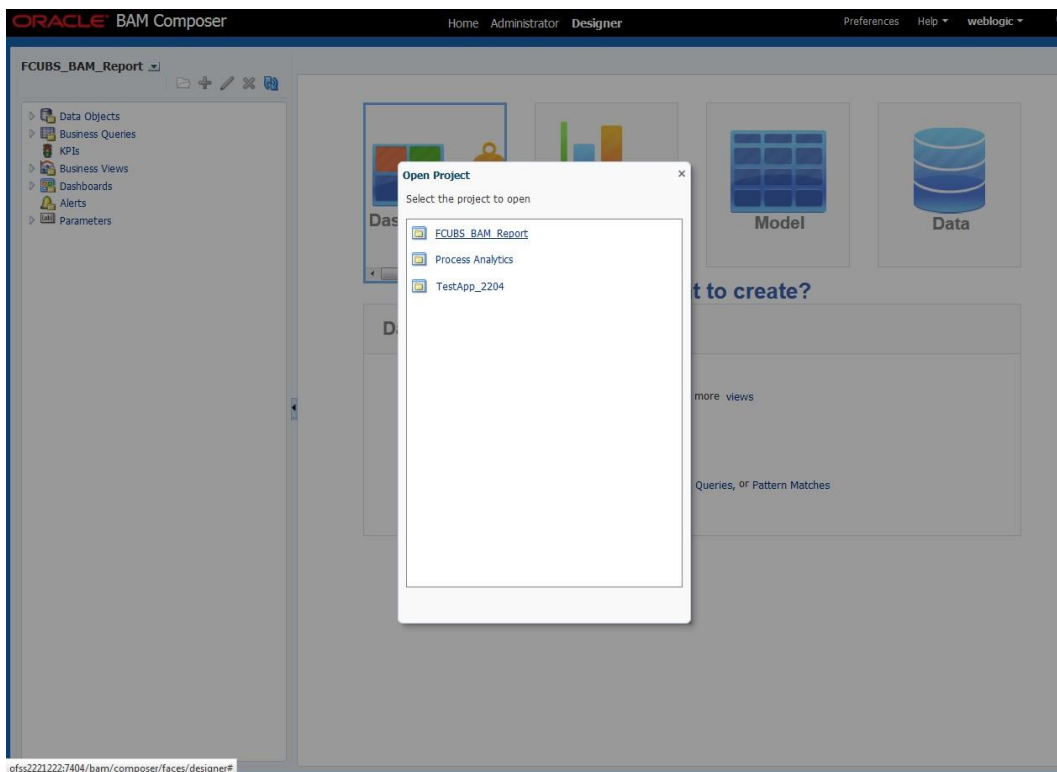


22. Follow the step 17 to 21 for other Data objects also.(cube\_instance,wftask\_different\_stages, ORVW\_TRACK\_EXPOSURE, ORVW\_FACILITY\_EXPOSURE, GetUtilsDB, SMTB\_USER\_TYPE\_CONVERSION\_VIEW, FCUBSDATAOBJECTS).

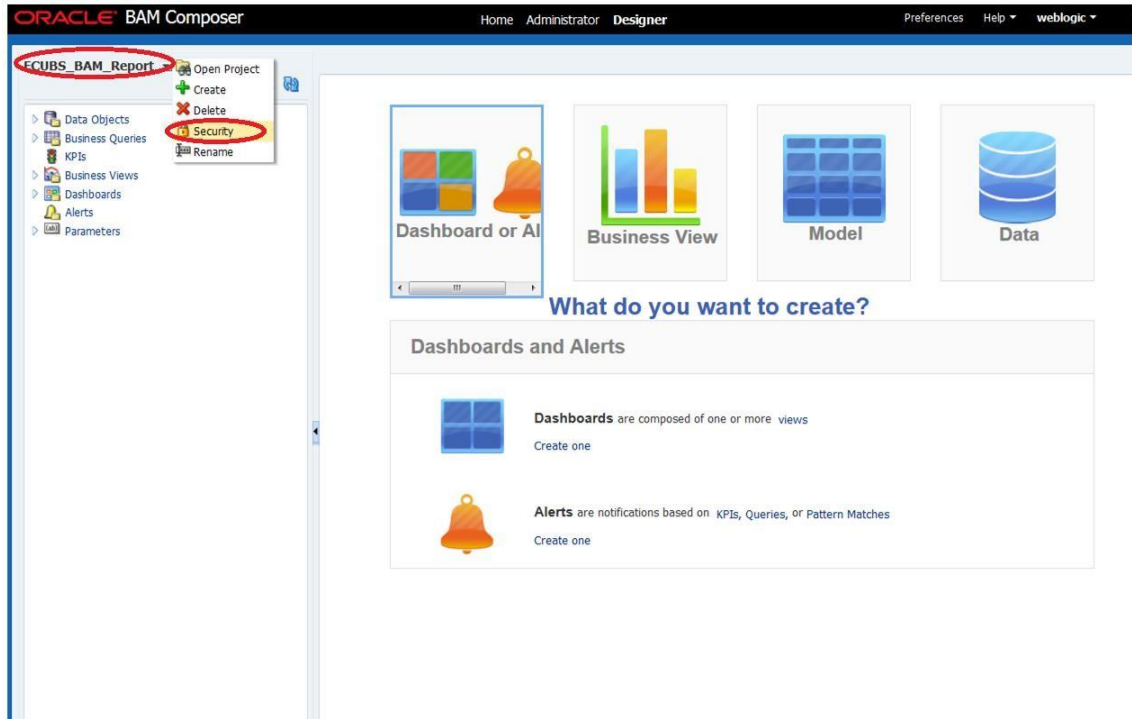
23. Click on Designer →open Project



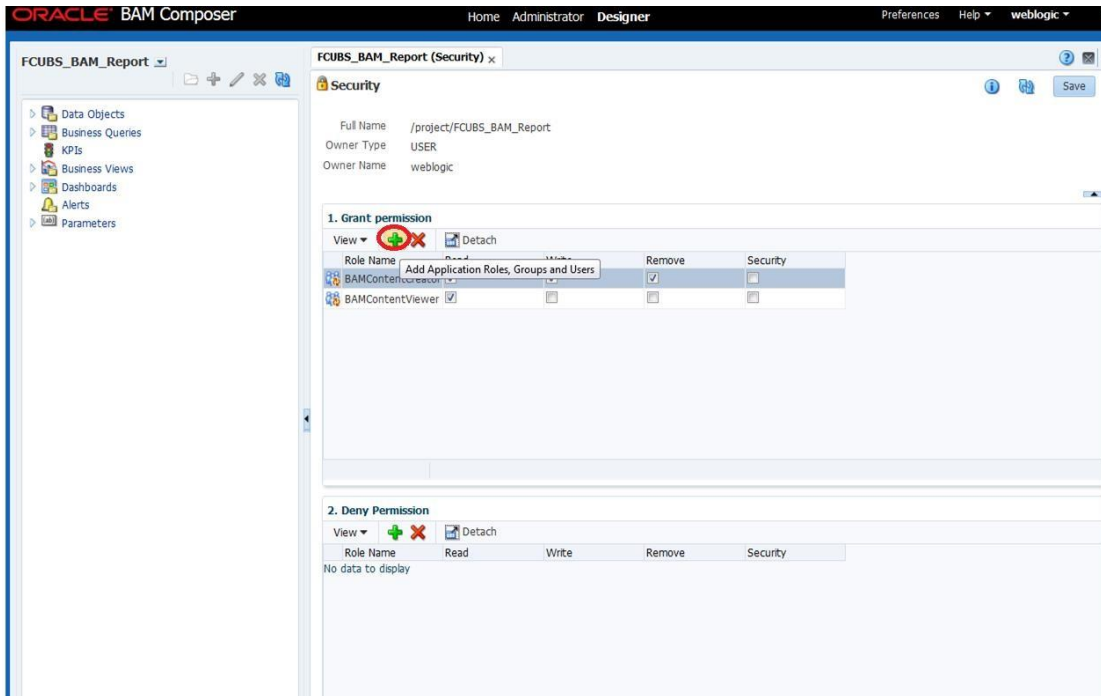
24. Click on FCUBS\_BAM\_report

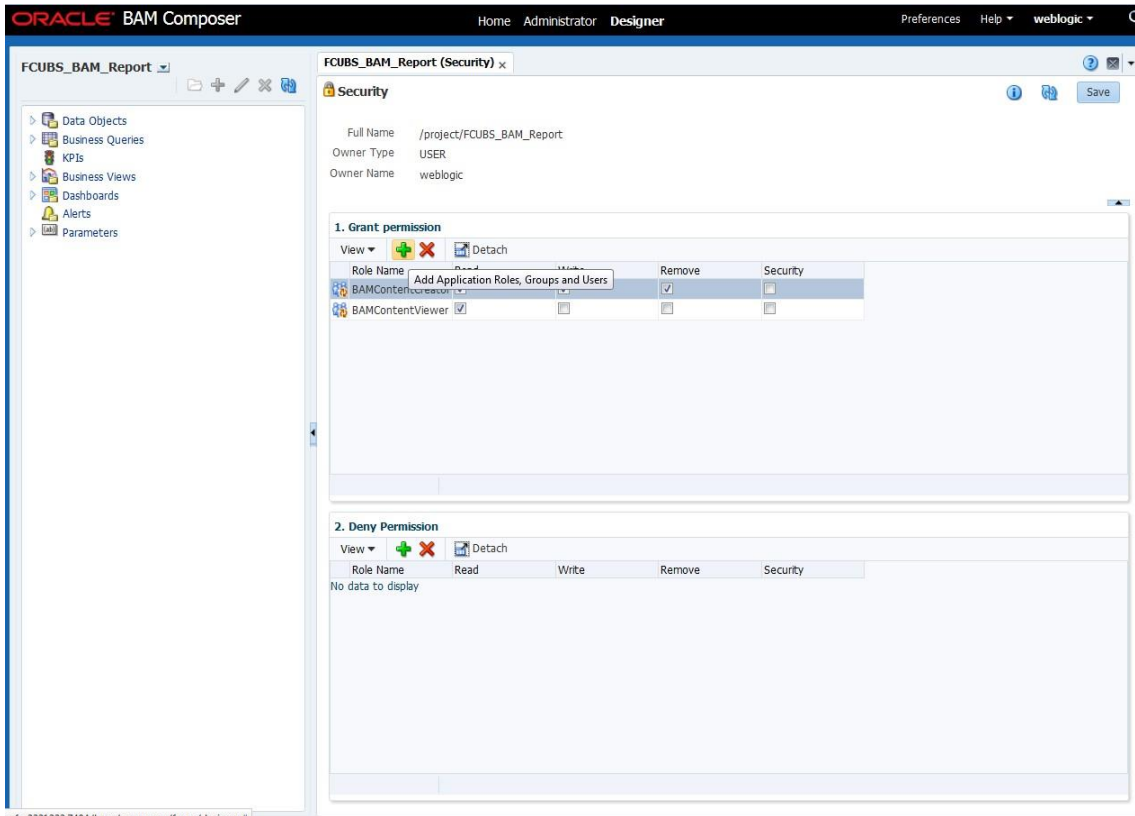


25. click on FCUBS\_BAM\_Report →Security

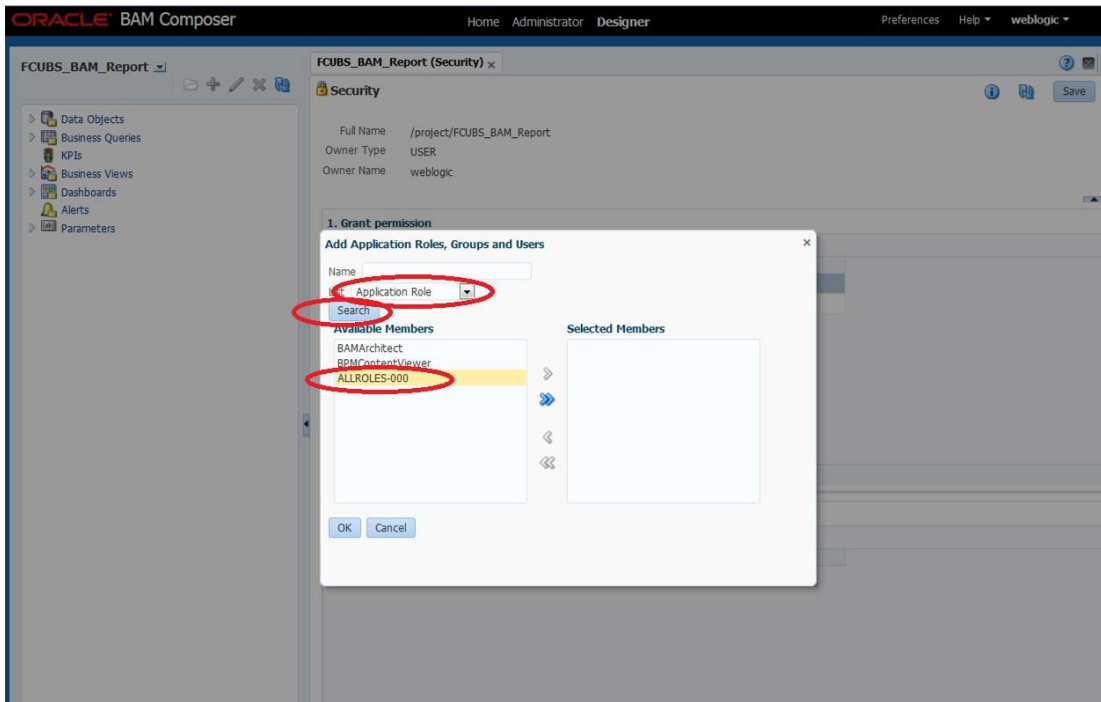


26. Click on ADD button Under Grant Permission.

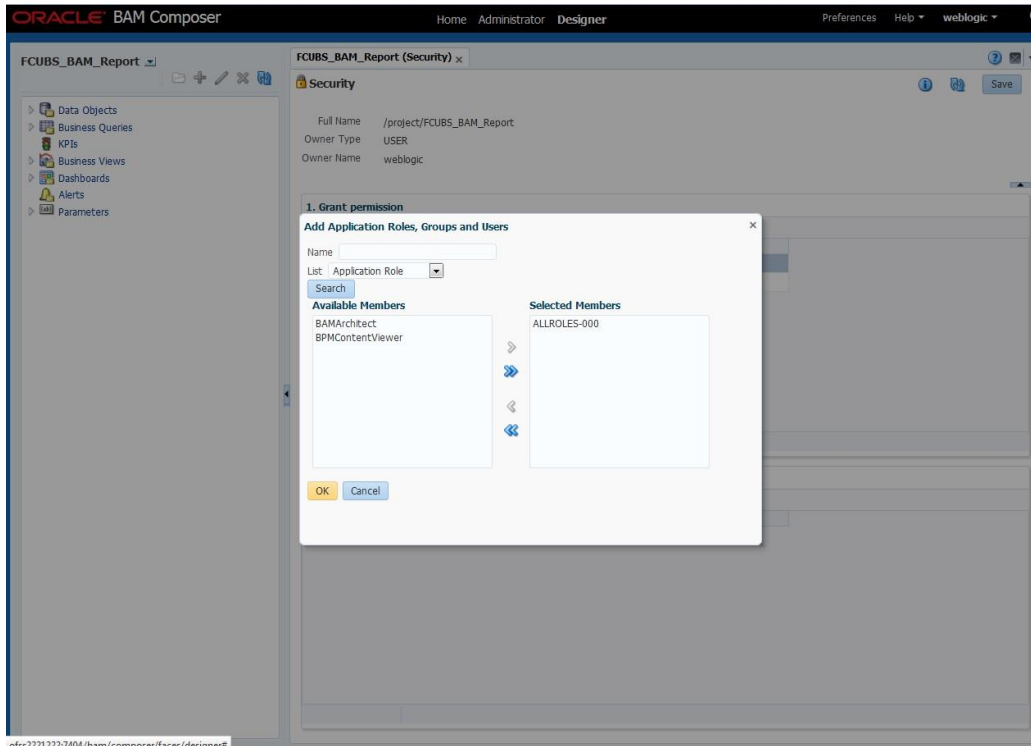




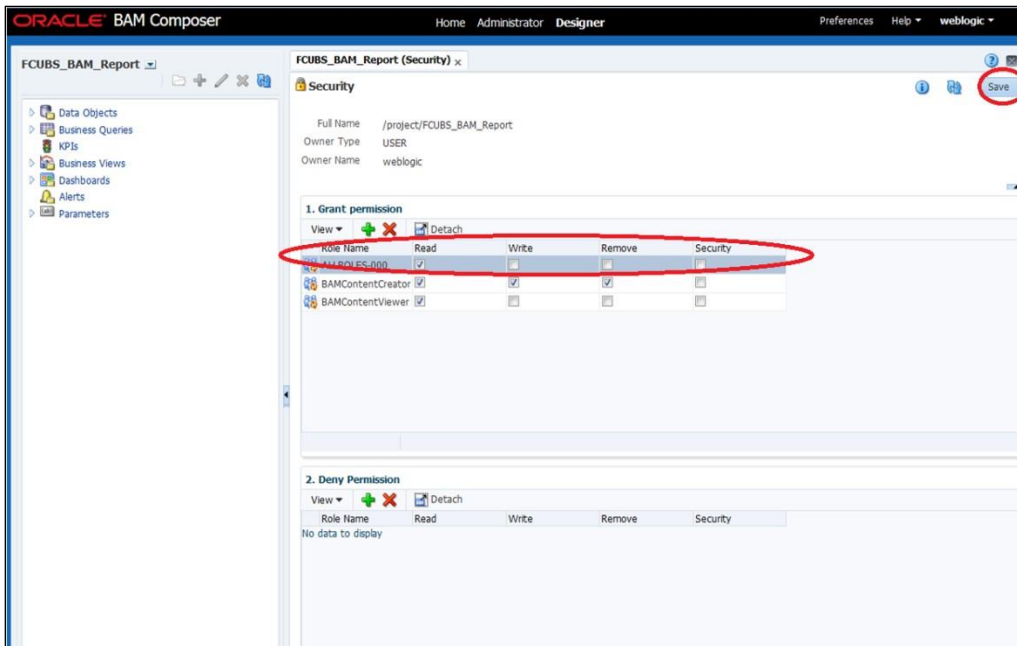
27. Search the List based on the Application Roles and Select the ALLROLES-000



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



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



## 1.2.9 IPM configuration to edit the document

The Following set of instructions can be followed if the BPEL need to be configured with IPM configuration

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

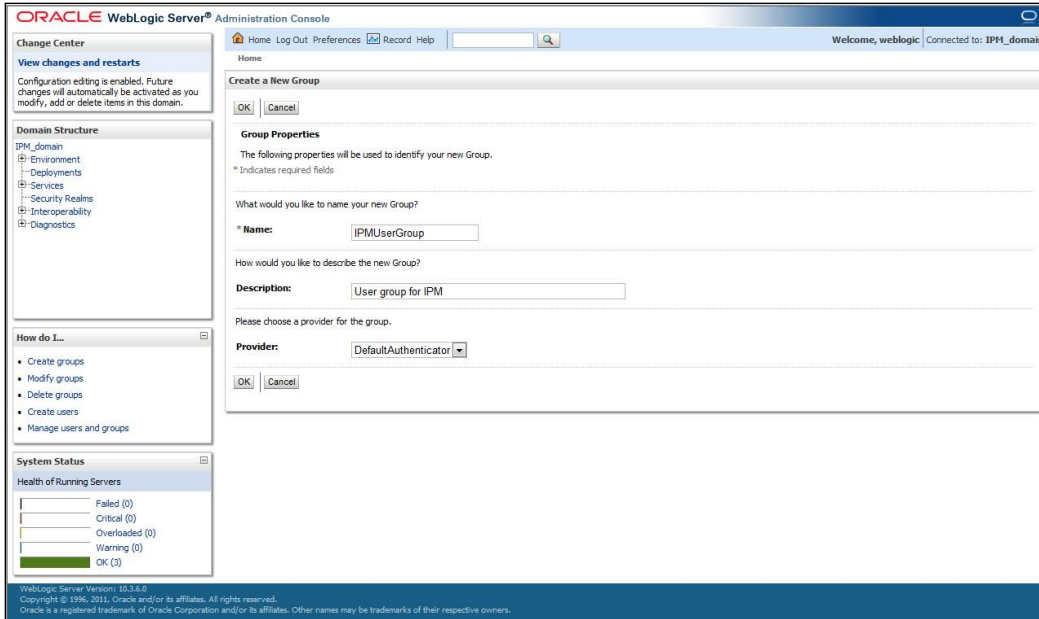
After adding, Navigate to security realms > myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.

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

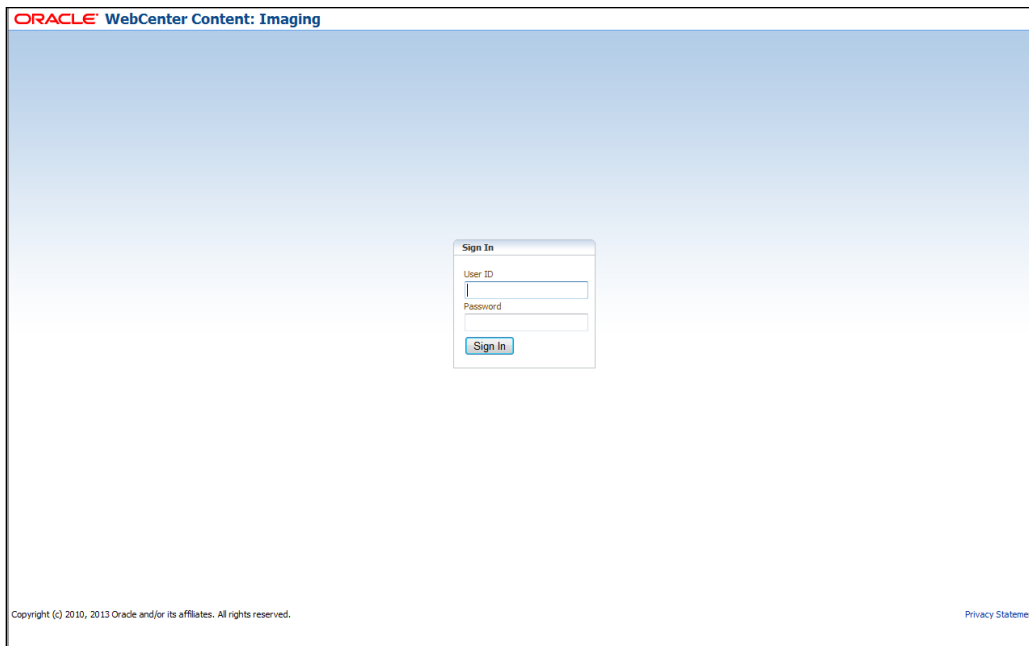
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Groups' page for the 'myrealm' security realm. The 'Groups' tab is selected, and a table of existing groups is shown. The 'New' button is highlighted in red. The table lists groups with their names, descriptions, and providers.

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

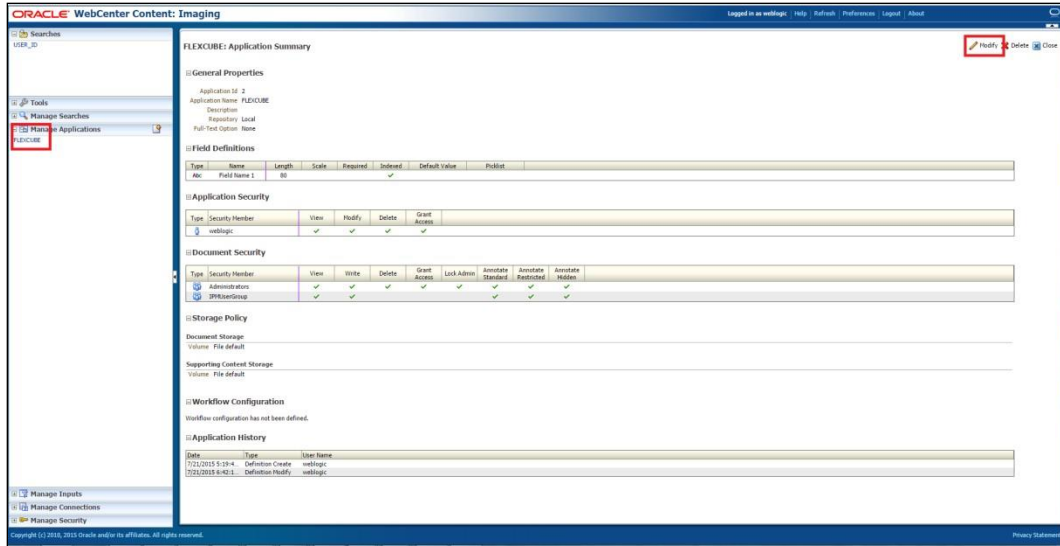
4. After Clicking on the new button,
  - Enter the name as “IPMUserGroup”
  - Description for it (optional)
  - And select the authenticator as “DefaultAuthenticator”
  - And then click “Ok”



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

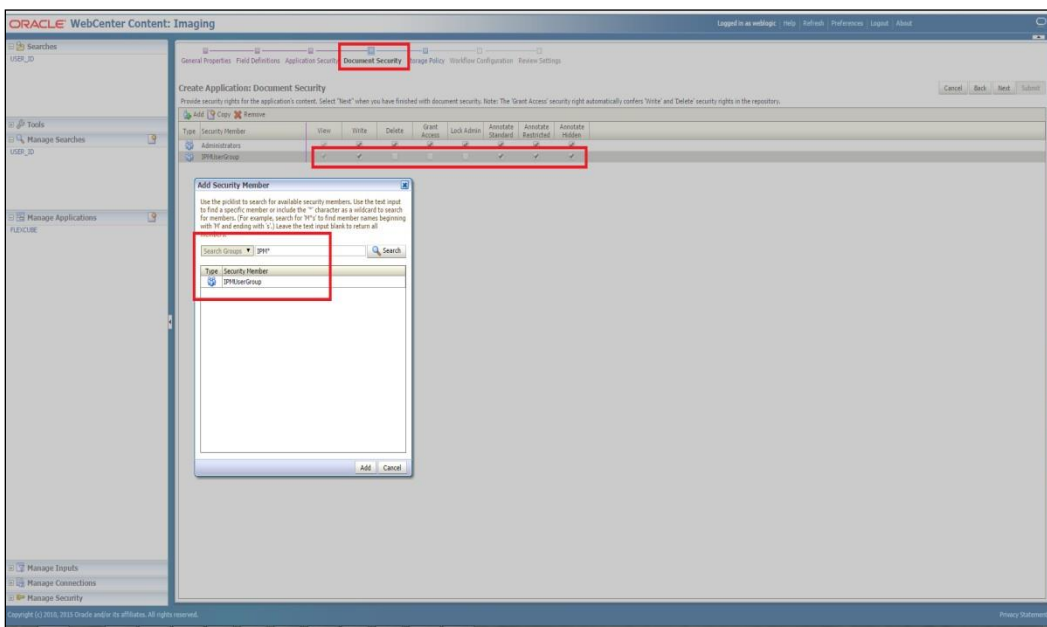


- Navigate to Manage Applications
- Click on the FLEXCUBE
- Then click on the modify on the right pane



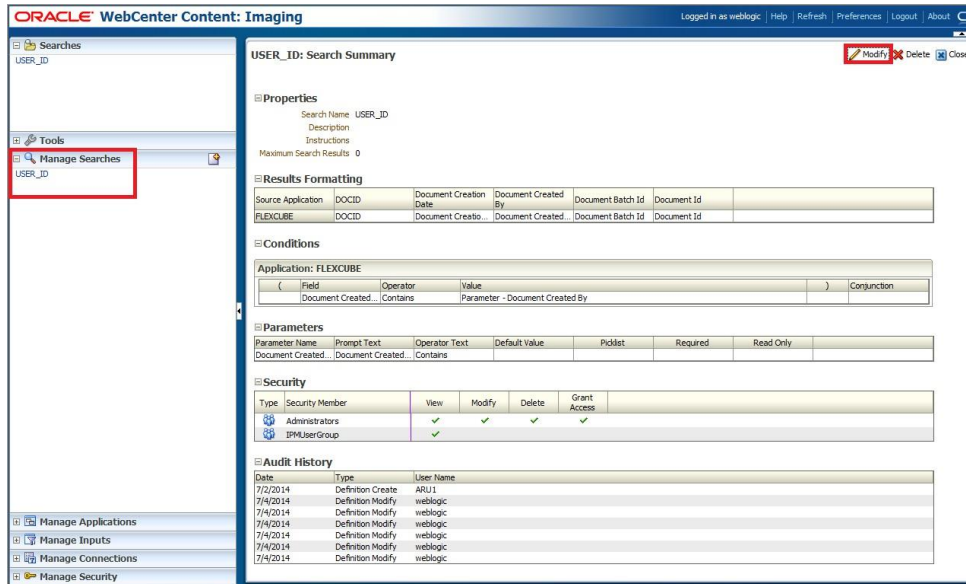
6. After clicking on the modify button,

- 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

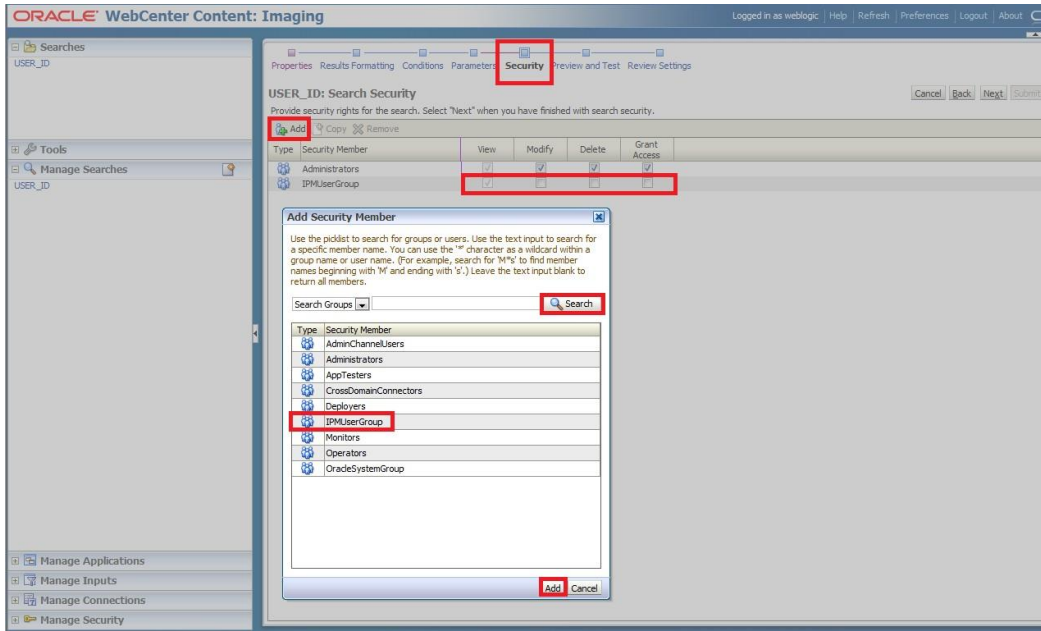




7. After clicking on the submit button,
  - a. Navigate to Manage Searches
  - b. Click on the available search (ex: USER\_ID in this doc)
  - c. Click on the modify



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 FCJJPSPProvider.jar to location

<ORACLE\_HOME >\user\_projects\domains\<domain name>\lib

10. Go to the location – '<ORACLE\_HOME>\

user\_projects\domains\<Domain\_created>\config\fmwconfig'

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

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

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

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

**STOP** 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>
```

## 1.2.10 Configuring Supervisor Roles in EM

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

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The top navigation bar shows 'ORACLE Enterprise Manager Fusion Middleware Control 12c' and 'WebLogic Domain' with a dropdown menu. The main content area is titled 'Target Navigation' and shows a tree view of the system. The 'Security' menu item is expanded, and 'Application Roles' is selected. The right pane shows a table with a 'Description' column. The interface also includes a 'Delete...' button and a 'Detach' button. The date and time 'Mar 21, 2016 12:30:59 PM IST' are displayed in the top right corner.

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

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

WebLogic Domain | weblogic

soa-infra | SOA Infrastructure

Mar 21, 2016 12:30:59 PM IST

### Application Roles

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

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

Policy Store Provider

Search

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

Role Name Starts With

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

Role Name	Display Name	Description
default_Composer	Composer for the Default Partition	A composer is responsible for making changes to composite artifacts, such as business rules in a business process, security poli...
default_Deployer	Composite Deployer for the Default P...	A deployer is responsible for deploying new applications, upgrading existing applications, and managing the continuous integratio...
default_Tester	Tester for the Default Partition	A tester performs integrated black box testing on preproduction systems. A system tester typically runs tests using a combination of...
default_ApplicationOperator	Application Operator for the Default Pa...	An application operator is responsible for handling customer complaints and making decisions on requests that result in faults in t...
default_Monitor	Monitor for the Default Partition	A default partition monitor is responsible for ensuring the successful operations of the deployed applications on the default partition.
MiddlewareOperator	SOA MiddleWare Operator	A middleware operator is responsible for ensuring operational continuity. A middleware operator is also the main point of contact w...
MiddlewareAdministrator	SOA Middleware Administrator	A middleware administrator is responsible for ensuring the continuous availability of the middleware servers, but is not always resp...
<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

10184.133.168.7401/em/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'.

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

WebLogic Domain | weblogic

soa-infra | SOA Infrastructure

Mar 21, 2016 12:30:59 PM IST

### Application Roles

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

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

Policy Store Provider

Search

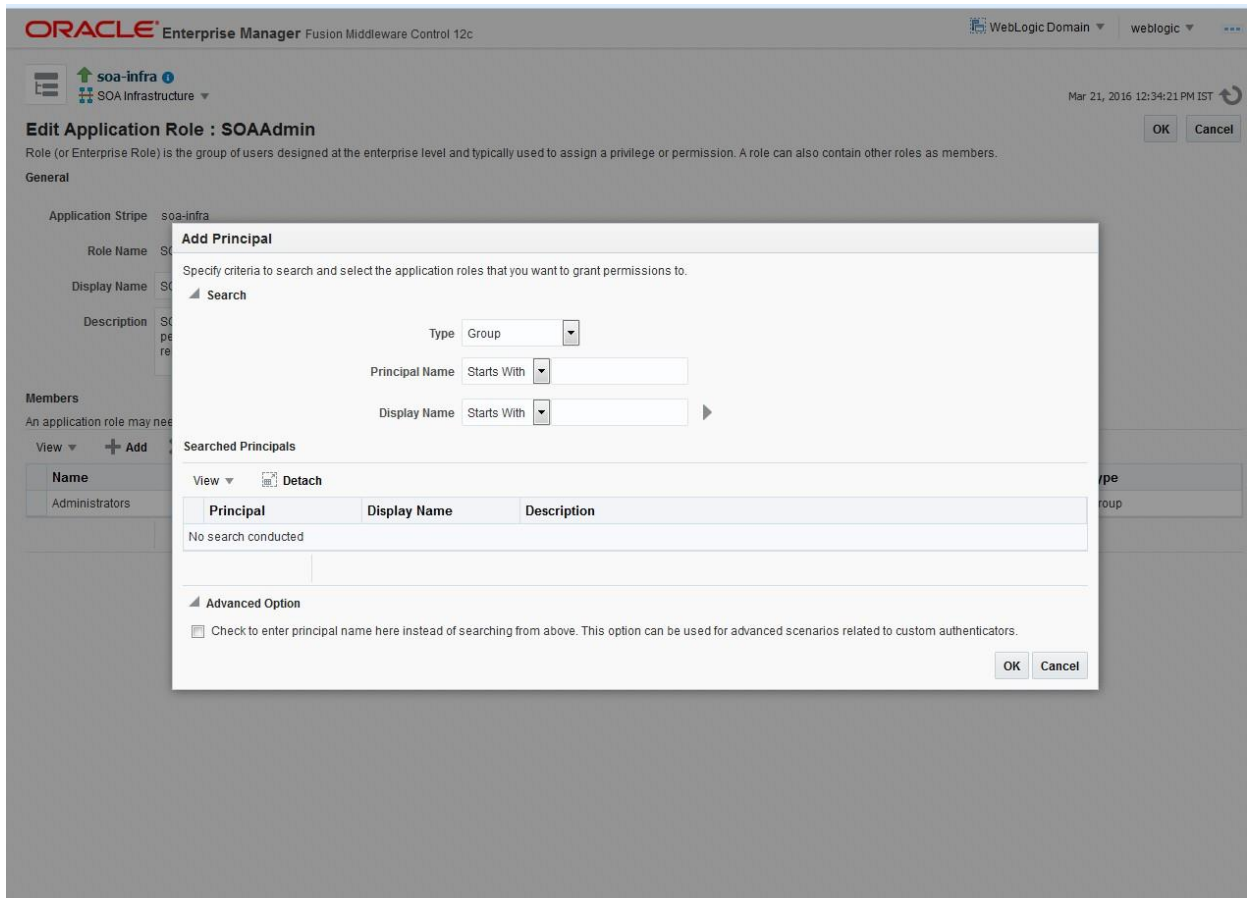
Enter search keyword for role name to query roles defined by this application. Use application stripe to search if application uses a stripe that is different from application name.

Role Name Starts With

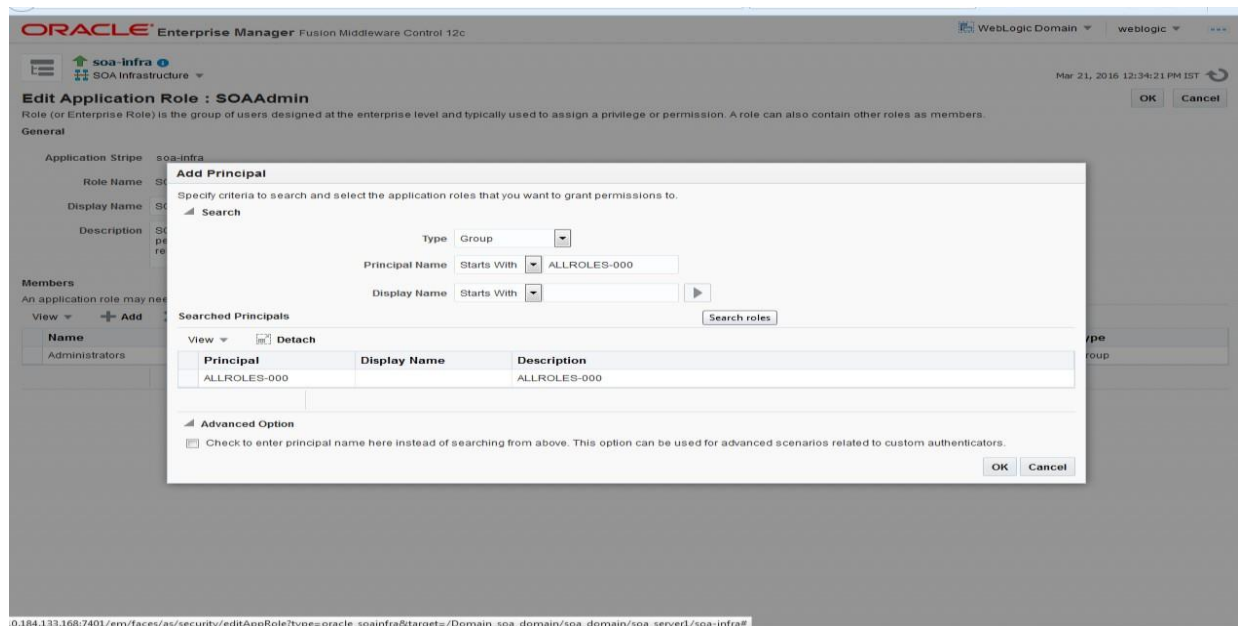
View Create... Create Like... Edit... Delete... Edit the selected application role

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

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



- 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.



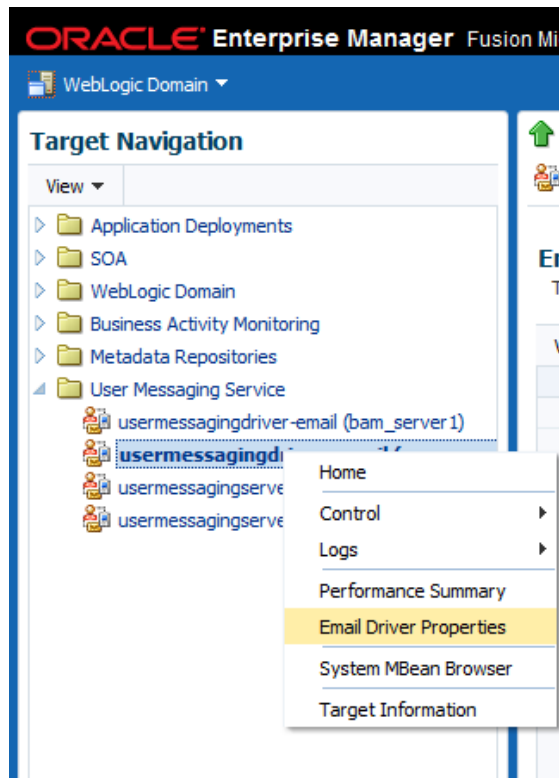
0.184.133.168:7401/em/faces/as/security/editAppRole?type=oracle\_soainfra&target=/Domain\_soa\_domain/soa\_domain/soa\_server1/soa-infra#

6. Click Ok .

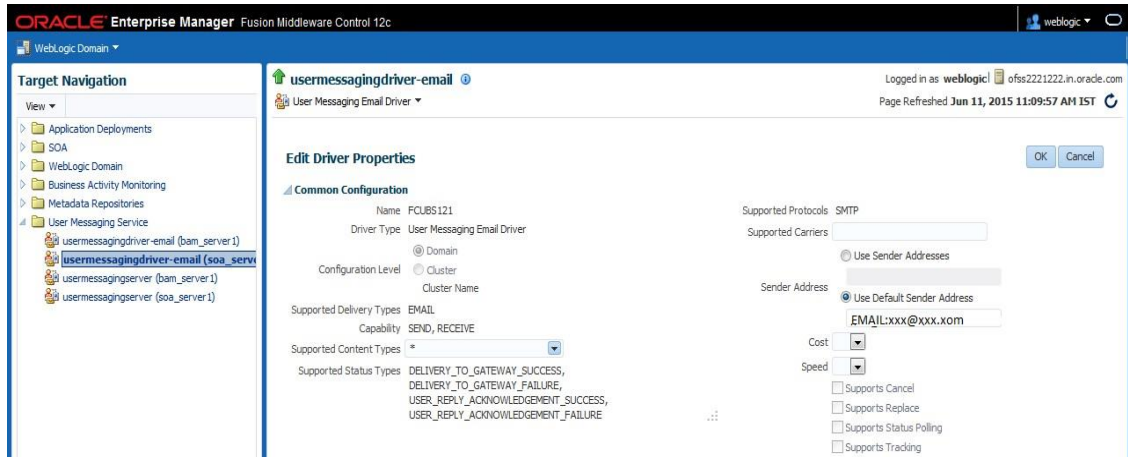
### 1.2.11 **Email Driver Configuration**

The Following set of instructions can be followed if the BPEL need to be configured with Email Driver configurations

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)



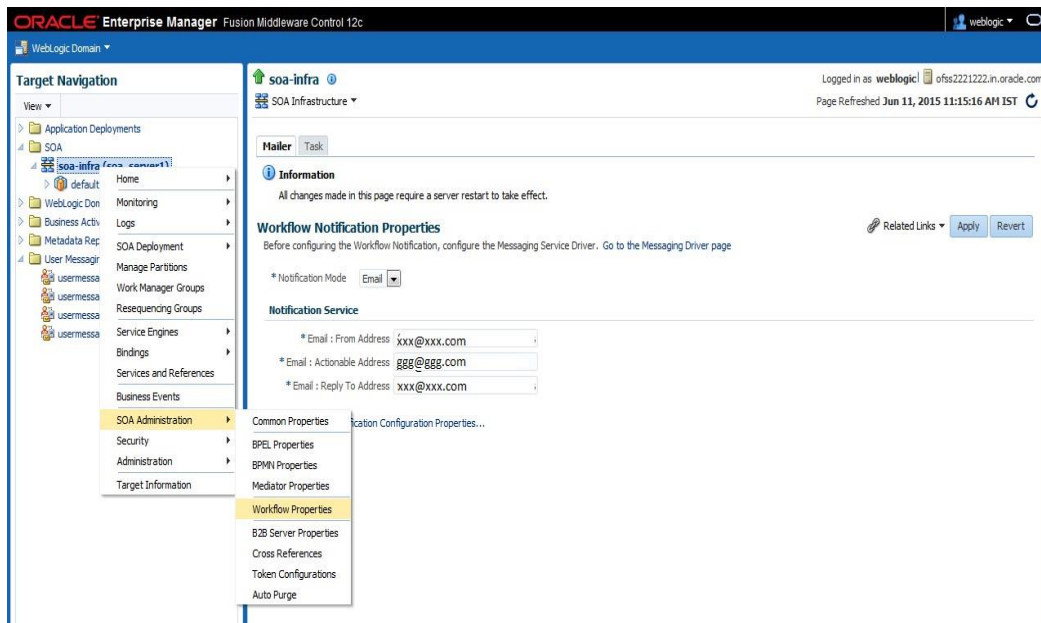
7. Select the mail access protocol (IMAP) as per the mail server specification

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

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.



## 1.2.12 TimeOut Settings for BPEL

1. The Following set of instructions has to be configured for BPEL Login in to Console (http://hostname:port/console)
2. Click on Deployments

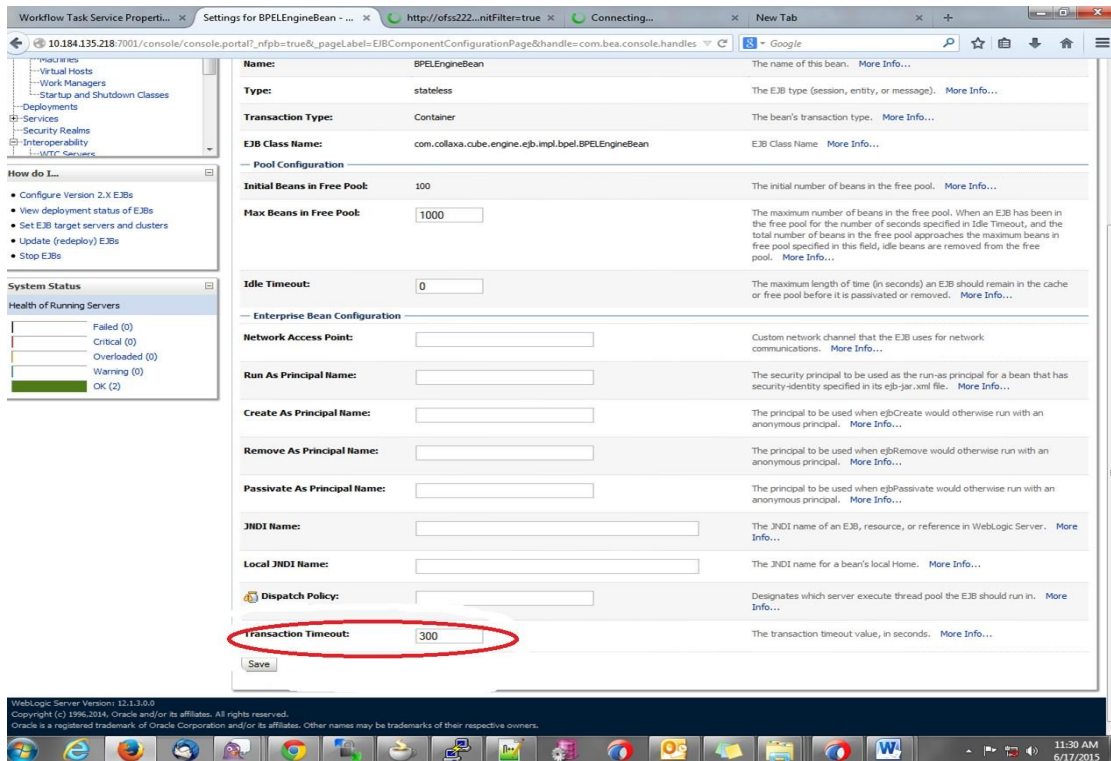
The screenshot displays the Oracle WebLogic Server Administration Console interface. The browser address bar shows the URL: 10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=HomePage1. The page title is "ORACLE WebLogic Server Administration Console 12c". The breadcrumb navigation path is: Home > AlphaDomain > Summary of Servers > AlphaDomain > Summary of Servers > Summary of Deployments > soa-infra > BPELEngineBean. The main content area is titled "Home Page" and contains several sections: "Information and Resources", "Domain Configurations", "Services", "Interoperability", "Diagnostics", and "Charts and Graphs". In the "Your Deployed Resources" section, the "Deployments" link is highlighted with a red circle. The "System Status" section on the left shows the health of running servers: Failed (0), Critical (0), Overloaded (0), and Warning (0).

3. Click on "soa-infra" application under deployments.

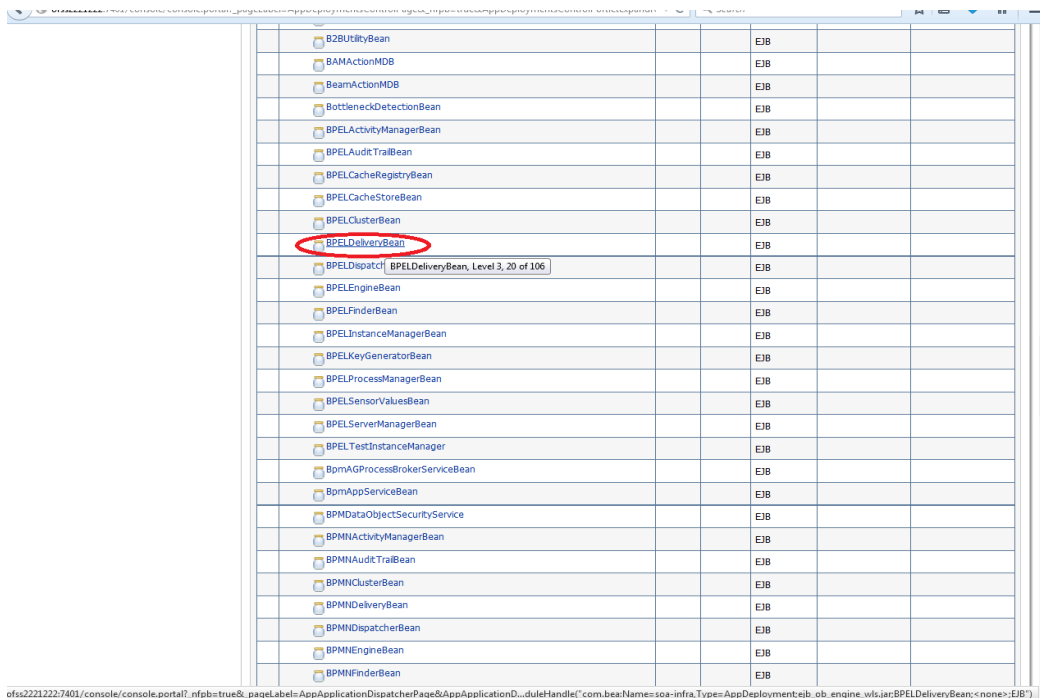
Name	State	Health	Type	Targets	Deployment Order
oracle.wsm.console.core.view(1.0,12.1.3.0)	Active		Library	AdminServer	311
oracle.wsm.seedpolicies(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
OracleBamAdapter	Installed		Resource Adapter		329
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
oracl18n-advf(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		325
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
<b>soa-infra</b>	Active	OK	Enterprise Application	SOAServer	350
soa-webapps	Active	OK	Enterprise Application	SOAServer	360
soa.em	Active		Library	AdminServer	100
SocketAdapter	Installed		Resource Adapter		326
state-management-provider-memory-rar-12.1.3	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
UIX(11,12.1.3.0.0)	Active		Library	AdminServer, BAMServer, SOAServer	100

4. Go to EJBs, click on BPEL Engine Bean → Configuration → set Transaction Timeout to 300.

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



5. Go to EJBs→BPEL DeliveryBean→ Configuration→set Transaction TimeOut to 300



The screenshot displays the configuration page for an EJB in the Oracle WebLogic Server console. On the left, there are two panels: 'How do I...' with links like 'Configure Version 2.X EJBs' and 'View deployment status of EJBs', and 'System Status' showing 'Health of Running Servers' with a legend for Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (4). The main configuration area is divided into sections: 'Type' (stateless), 'Transaction Type' (Container), 'EJB Class Name' (com.colaxa.cube.engine.ejb.mpl.bpel.BPELDeliveryBean), and 'Pool Configuration' (Initial Beans in Free Pool: 200, Max Beans in Free Pool: 1000, Idle Timeout: 0). Below this is the 'Enterprise Bean Configuration' section, which includes fields for 'Network Access Point', 'Run As Principal Name', 'Create As Principal Name', 'Remove As Principal Name', 'Passivate As Principal Name', 'JNDI Name', and 'Local JNDI Name'. The 'Dispatch Policy' is also visible. The 'Transaction Timeout' field is highlighted with a red oval and contains the value '1800'. A 'Save' button is located at the bottom of the configuration area.

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

The screenshot displays the Oracle WebLogic Server Administration Console 12c interface. The main content area is titled "Settings for dev\_domain" and shows the "JTA" configuration tab. The "Timeout Seconds" field is highlighted with a red circle and contains the value 3600. Other configuration fields include Abandon Timeout Seconds (86400), Before Completion Iteration Limit (10), Max Transactions (10000), Max Unique Name Statistics (1000), and Checkpoint Interval Seconds (300). The "Write recovery logs when determiners configured" checkbox is unchecked, and the "Determiners" text area is empty. The "Forget Heuristics" checkbox is checked.

8. Login in to EM console (<http://host:port/em>)→SOA administration→BPEL Properties→MoreConfigproperties→ SyncMaxWaitTime.Change the SyncMaxWaitTime to 200 secs

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The browser window shows the URL: `10.184.135.218:7001/em/faces/ai/soa/infra?_af-Page-Id=11&target=:%2FDomain_AlphaDomain%2FAlphaDomain%2Fsoa-server%2Fsoa-infr`. The user is logged in as 'admin'.

**Target Navigation:** The left sidebar shows a tree view of the SOA infrastructure. The 'soa-infra (S)' target is selected, and the 'SOA Administration' menu is expanded, showing options like 'Common Properties', 'BPEL Properties', 'BPMN Properties', 'Mediator Properties', 'Workflow Properties', 'B2B Server Properties', 'Cross References', 'Token Configurations', and 'Auto Purge'.

**Dashboard:** The main dashboard area shows the following sections:

- Key Configuration:** Profile: **BPM BASIC**, Instance Tracking: **Production**, Default Query Duration: **Last 24 Hours**, Auto Purge: **Enabled**.
- Business Transaction Faults:** Search bar and 'Recent In' list.
- SOA Runtime Health:** Filtered by 'SOAServer'. Status: **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:** Filtered by 'SOAServer'. Messages in Queues:
  - BPEL Invoke --
  - BPEL Callback --
  - Mediator Parallel Routing --

The system clock at the bottom right indicates the time is 11:36 AM on 6/17/2015.

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

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

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

Change Center Changes Recording

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

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

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

Show MBean Information

Attributes Operations Notifications

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

Target Navigation  
View  
Application Deployments  
SOA  
soa-infra (SOA Server)  
default  
AmendFCUBSORNFRetailLoanContract [1.0]  
AmendFCUBSORRetailLoanContract [1.0]  
AmendRetailLoanContractFCUBSORService [1.0]  
BIPUtility [1.0]  
BPELCOLLATProcess [1.0]  
BPELCRPClosureProcess [1.0]  
BPELCRPProcess [1.0]  
bpelcvnprocess [1.0]  
BPELLimitReview [1.0]  
CIBLProcess [1.0]  
CloseFCUBSORRetailLoanContract [1.0]  
CloseRetailLoanContractFCUBSORService [1.0]  
COLLATProcess [1.0]  
CRDCProcess [1.0]  
CreditBureauBPEL [1.0]  
CreditBureauHandler [1.0]  
CRPClosureProcess [1.0]  
CRPProcess [1.0]  
CRPProcess [2.0]  
CurrentAccountCreationWithCreditFacility [1.0]  
DBUtility [1.0]  
DBUtility [2.0]  
DisburseFCUBSORRetailLoanContract [1.0]  
EQFVProcess [1.0]  
EXPNProcess [1.0]  
ExternalValuation [2.0]  
InitiateFCUBSORRetailLoanPayment [1.0]  
InitiateKYCheckFCUBSORService [1.0]  
InitiateRetailLoanContractFCUBSORService [1.0]  
InitiateRetailLoanPaymentFCUBSORService [1.0]  
InitiateRiskEvaluationFCUBSORService [1.0]  
KYCCheck [2.0]  
KYCCorporateReview [2.0]

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.



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