

Setting up Plug-Ins  
Oracle Banking Corporate Lending  
Release 14.5.5.0.0  
[May] [2022]



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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.

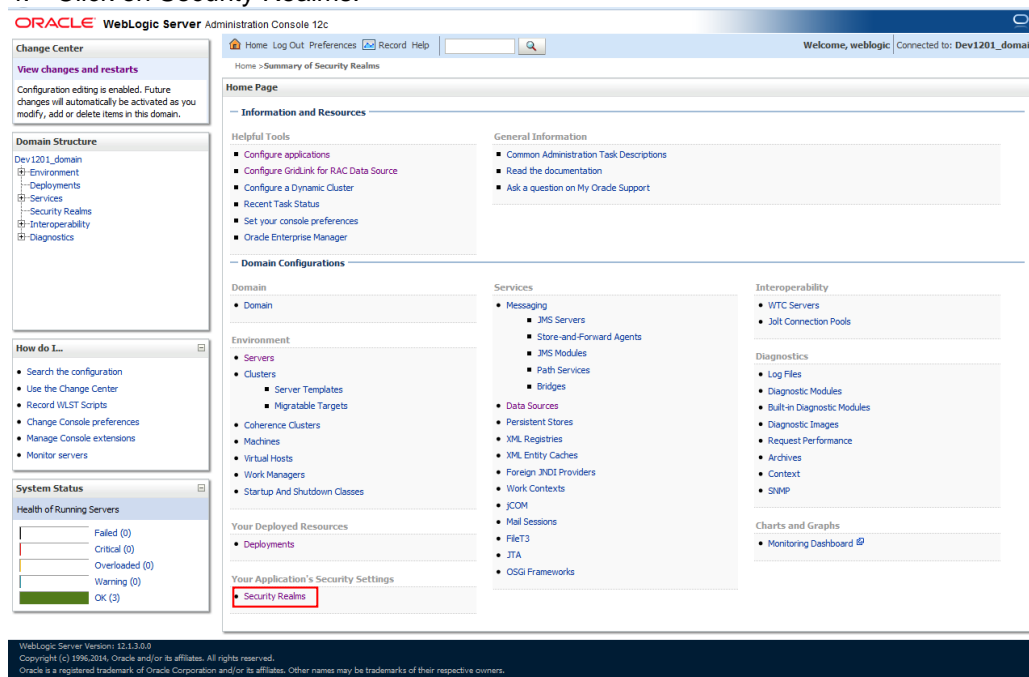
## 1.2 Integrating Oracle FLEXCUBE UBS and BPEL

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)

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**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)  
New Delete Showing 1 to 1 of 1 Previous | Next

| Name    | Default Realm |
|---------|---------------|
| myrealm | true          |

New Delete Showing 1 to 1 of 1 Previous | Next

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

Settings for myrealm - Oracle Software Delivery - 10.184.132.64:8080/ddi - BUG - SearchSoftware

10.184.132.228:8001/console/console.portal?\_nfpb=true&\_pageLabel=RealmpvidersTabPage&handle=com.bea.console.handles.SecurityMBeanHandle%28"Security%3A..."

**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)

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**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 4 of 4 Previous | Next

| Name                            | Description                                | Version    |
|---------------------------------|--|------------|
| FCICustomProvider               | 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        |

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

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

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: Dev1201\_domain

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

### Create a New Authentication Provider

OK Cancel

Create a new Authentication Provider

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

\* Indicates required fields

The name of the authentication provider.

\* Name:

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

Type:

OK Cancel

**Change Center**

View changes and restarts

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

**Domain Structure**

- Dev1201\_domain
  - Environment
  - Deployments
  - Services
  - Security Realms
  - Interoperability
  - Diagnostics

**How do I...**

- Manage security providers
- Configure Authentication and Identity Assertion providers

**System Status**

Health of Running Servers

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

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

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: Dev1201\_domain

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

Messages

Create operation cancelled - no Authentication Providers created.

### Settings for myrealm

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

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

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

Customize this table

#### Authentication Providers

New Delete **Reorder**

Showing 1 to 4 of 4 Previous Next

| Name   | Description                                | Version    |
|--|--|------------|
| <input type="checkbox"/> FCJCustomProvider               | Authentication provider for FLEXCUBE users | FCUBS 12.1 |
| <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 4 of 4 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**

- Dev1201\_domain
  - 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

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

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**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...**  
• Re-order Authentication providers  
• Set the JAAS control flag

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

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**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

9. Click on FCJCustomProvider.

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

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

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

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**Settings for FCJCustomProvider**  
Configuration  
Common Provider Specific

Save

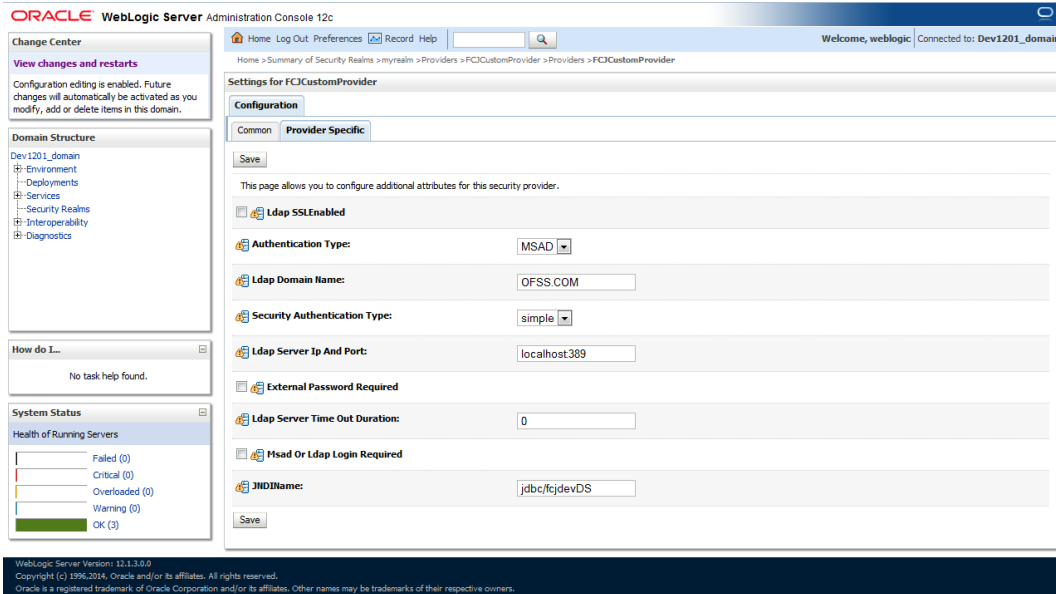
This page allows you to define the general configuration of this provider.

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

Save

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

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

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

## 1.2.2 Configuring libovd for single Entity

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

- Along with the Oracle FLEXCUBE UBS EAR file, the Installer creates 'FCJJSPProvider.jar' file inside the BPBuild folder under SOURCE directory.
- 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'.
- 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\bpe\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:

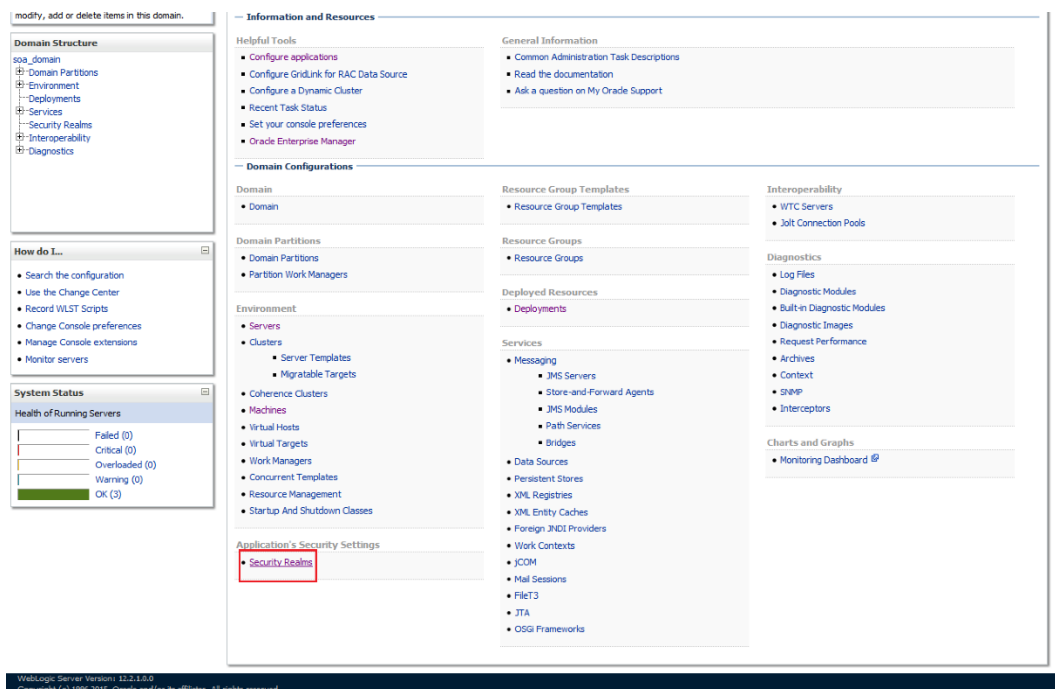
- In case of Multi Entity, all data sources must be created separately for each entity. The JNDI name will be differentiated by suffixing entity name.

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**

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

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

### Summary of Security Realms

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

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

[Customize this table](#)

Realms (Filtered - More Columns Exist)

| Name    | Default Realm |
|---------|---------------|
| myrealm | true          |

Showing 1 to 1 of 1 Previous | Next

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

**Domain Structure**  
soa\_domain  
├ Domain Partitions  
├ Environment  
├ Deployments  
├ Services  
├ **Security Realms**  
├ Interoperability  
└ Diagnostics

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

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

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#### 4. Click on Providers.

**ORACLE WebLogic Server Administration Console 12c**

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

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

### Settings for myrealm

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

General RDBMS Security Store User 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

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

**Domain Structure**  
soa\_domain  
├ Domain Partitions  
├ Environment  
├ Deployments  
├ Services  
├ **Security Realms**  
├ Interoperability  
└ Diagnostics

**How do I...**  
• Configure new security realms  
• Enable automatic realm restart  
• Manage security for Web applications and EJBs  
• Set the default security model  
• Delegate MBean authorization to the realm

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

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#### 5. Click on New

**ORACLE WebLogic Server Administration Console 12c**

Welcome, weblogic Connected to: soa\_domain

Home > myrealm > Providers > FCUBS > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > Summary of Security Realms > myrealm > 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 4 of 4 Previous Next

| 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        |

New Delete Reorder Showing 1 to 4 of 4 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**

soa\_domain

- 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**

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (3)

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- Enter the Name with proper Entity Name(entity name we mapped in property file) and select the type as FCUBSUserAuthenticator

**ORACLE WebLogic Server Administration Console 12c**

Welcome, weblogic Connected to: soa\_domain

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

**Create a New Authentication Provider**

OK Cancel

**Create a new Authentication Provider**

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

\* Indicates required fields

The name of the authentication provider.

**Name:** ENTITYID

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

**Type:** FCUBSUserAuthenticator

OK Cancel

**Change Center**

**View changes and restarts**

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

**Domain Structure**

soa\_domain

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

**How do I...**

- Manage security providers
- Configure Authentication and Identity Assertion providers

**System Status**

**Health of Running Servers**

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (3)

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- Click on Reorder. Bring the Authenticationprovider to the first in the order and click ok.

**ORACLE WebLogic Server Administration Console 12c**

Welcome, weblogic | Connected to: soa\_domain

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

- ☒ ENTITYYID
- ☐ FCUBS
- ☐ Trust Service Identity Asse
- ☐ DefaultAuthenticator
- ☐ DefaultIdentityAsserter

OK | Cancel

**Change Center**

**View changes and restarts**

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

**Domain Structure**

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

**How do I...**

- Re-order Authentication providers
- Set the JAAS control flag

**System Status**

Health of Running Servers

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

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8. Click the Provider that we have created.

**ORACLE WebLogic Server Administration Console 12c**

Welcome, weblogic | Connected to: soa\_domain

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

| Name   | Description                                | Version    |
|--|--|------------|
| <input checked="" type="checkbox"/> ENTITYYID            | 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

**Change Center**

**View changes and restarts**

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

**Domain Structure**

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

**How do I...**

- 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

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

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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:** FOLBS 12.2

**Control Flag:** SUFFICIENT

Save

**Domain Structure**

soa\_domain

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

**How do I...**

No task help found.

**System Status**

Health of Running Servers

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

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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 Ip And Port:** localhost:389

**JNDIName:** 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 SSLEnabled**

☐ **Ptsad Or Ldap Login Required**

**Authentication Type:** MSAD

Save

**Domain Structure**

soa\_domain

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

**How do I...**

No task help found.

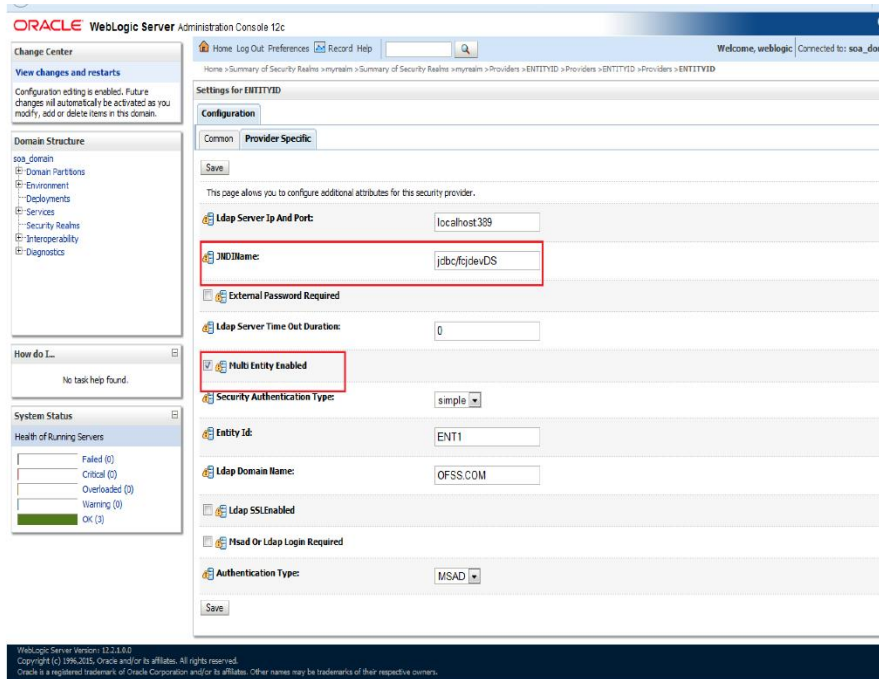
**System Status**

Health of Running Servers

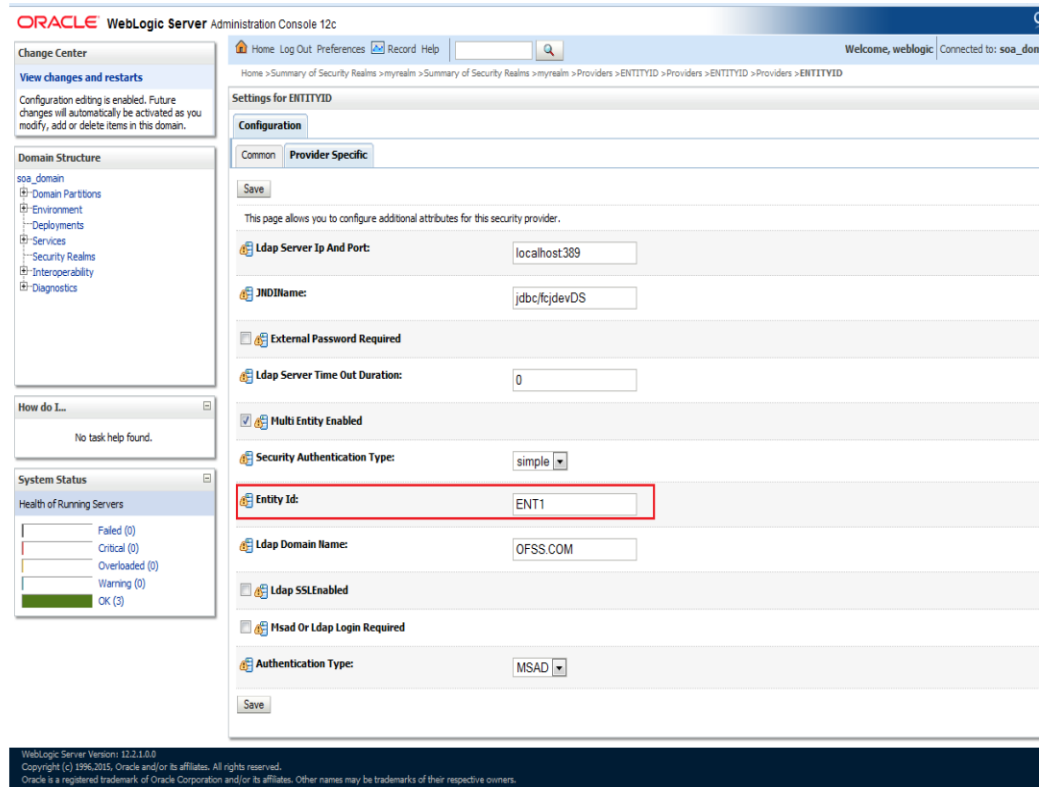
- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (3)

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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.



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



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

**Summary of Deployments**

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**

| 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              |
| FCUBSApp (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'.

**Settings for DbAdapter**

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

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

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

**Outbound Connection Pool Configuration Table**

| Groups and Instances                 | Connection Factory Interface         |
|--------------------------------------|--------------------------------------|
| javafx.resource.cc.ConnectionFactory | javafx.resource.cc.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 pane displays the 'Settings for javax.resource.cci.ConnectionFactory' with the 'Properties' tab selected. The 'Outbound Connection Properties' table is visible, showing various properties and their values.

| Property Name            | Property Type     | Property Value  | Supports Dynamic Updates |
|--------------------------|-------------------|---|--------------------------|
| DataSourceName           | java.lang.String  | jdbc/fcdev05  | false                    |
| DefaultChar              | java.lang.Boolean | false   | false                    |
| PlatformClassName        | java.lang.String  | org.eclpse.persistence.platform.database.Oracle10Platform | false                    |
| SequencePreallocatorSize | 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 displays the Oracle WebLogic Server Administration Console. The left sidebar shows the 'Domain Structure' tree with 'JMS Servers' selected under 'Services'. The main content area shows the 'Summary of JMS Servers' page, which includes a table of existing JMS servers and a 'New' button to create a new one.

**WebLogic Server Administration Console 12c**

Home > AlphaDomain > Summary of JMS Servers

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...**

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

**System Status**

Health of Running Servers

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

**Home Page**

**Information and Resources**

Helpful Tools

- Configure applications
- Configure GridLink for RAC Data Source
- Configure a Dynamic Cluster
- Recent Task Status
- Set your console preferences
- Oracle Enterprise Manager

General Information

- Common Administration Task Descriptions
- Read the documentation
- Ask a question on My Oracle Support

**Domain Configurations**

Domain

- Domain

Environment

- Servers
- Clusters
  - Server Templates
  - Migratable Targets
- Coherence Clusters
- Machines
- Virtual Hosts
- Work Managers
- Startup And Shutdown Classes

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

**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 domain.

**Customize this table**

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

New Delete

Showing 1 to 8 of 8 Previous Next

| Name                            | Persistent Store                   | Target    | Current Target | Health |
|---------------------------------|------------------------------------|-----------|----------------|--------|
| BanAlertEngineJmsServer         | BanAlertEngineJmsFileStore         | BAMServer | BAMServer      |        |
| BanCQServiceJmsServer_BAMServer | BanCQServiceJmsFileStore_BAMServer | BAMServer | BAMServer      |        |
| BanReportCacheJmsServer         | BanReportCacheJmsFileStore         | BAMServer | BAMServer      |        |
| BanServerJmsServer_BAMServer    | BanServerJmsFileStore_BAMServer    | BAMServer | BAMServer      |        |
| BPMJmsServer                    | BPMJmsFileStore                    | SOAServer | SOAServer      | OK     |
| SOAJmsServer                    | SOAJmsFileStore                    | SOAServer | SOAServer      | OK     |
| UMSJmsServer_auto_1             | UMSJmsFileStore_auto_1             | BAMServer | BAMServer      |        |
| UMSJmsServer_auto_2             | UMSJmsFileStore_auto_2             | SOAServer | SOAServer      | OK     |

New Delete

Showing 1 to 8 of 8 Previous Next

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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 left sidebar contains the 'Domain Structure' tree, 'How do I...' section, and 'System Status' section. The main content area shows the 'JMS Server Properties' step. The 'Name' field is set to 'FCUBSJMServer'. The 'Persistent Store' dropdown is set to 'SOAJMSFileStore'. The 'Next' button is highlighted.

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 left sidebar contains the 'Domain Structure' tree, 'How do I...' section, and 'System Status' section. The main content area shows the 'Select targets' step. The 'Target' dropdown is set to 'SOAServer'. The 'Finish' button is highlighted.

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

How do I...  
- Configure JMS servers  
- Configure JMS system modules

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

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 |
|---------------------------------|------------------------------------|------------|----------------|--------|
| BanAlertEngineJmsServer         | BanAlertEngineJmsFileStore         | BAMServer  | BAMServer      |        |
| BanCQServiceJmsServer_BAMServer | BanCQServiceJmsFileStore_BAMServer | BAMServer  | BAMServer      |        |
| BanReportCacheJmsServer         | BanReportCacheJmsFileStore         | BAMServer  | BAMServer      |        |
| BanServerJmsServer_BAMServer    | BanServerJmsFileStore_BAMServer    | BAMServer  | BAMServer      |        |
| BPMJMSFileStore                 | BPMJMSFileStore                    | SOA Server | SOA Server     | OK     |
| FCUBSJMServer                   | SOA JMSFileStore                   | SOA Server | SOA Server     | OK     |
| SOA JMSFileStore                | SOA JMSFileStore                   | SOA Server | SOA Server     | OK     |
| UMSJMSFileStore_auto_1          | UMSJMSFileStore_auto_1             | BAMServer  | BAMServer      |        |
| UMSJMSFileStore_auto_2          | UMSJMSFileStore_auto_2             | SOA Server | SOA Server     | OK     |

Showing 1 to 9 of 9 Previous | Next

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

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

How do I...  
- Search the configuration  
- Use the Change Center  
- Record WLST Scripts  
- Change Console preferences  
- Manage Console extensions  
- Monitor servers

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

Home Page  
Information and Resources  
Helpful Tools  
- Configure applications  
- Configure GridLink for RAC Data Source  
- Configure a Dynamic Cluster  
- Recent Task Status  
- Set your console preferences  
- Oracle Enterprise Manager  
General Information  
- Common Administration Task Descriptions  
- Read the documentation  
- Ask a question on My Oracle Support  
Domain Configurations  
Domain  
- Domain  
Environment  
- Servers  
- Clusters  
- Server Templates  
- Migratable Targets  
- Coherence Clusters  
- Machines  
- Virtual Hosts  
- Work Managers  
- Startup And Shutdown Classes  
Your Deployed Resources  
- Deployments  
Your Application's Security Settings  
- Security Realms  
Services  
- Messaging  
- JMS Servers  
- Store-and-Forward Agents  
- JMS Module  
- 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 at version 12.1.3.0.0. The left sidebar contains the 'Domain Structure' tree with 'JMS Modules' selected. The main content area is titled 'Summary of JMS Modules' and lists existing modules in a table. A red circle highlights the 'New' button at the top left of this table.

| Name                                    | Type   |
|---|--------|
| BamAlertEngineJmsSystemModule           | System |
| BamCQServiceJmsSystemResource_BAMServer | System |
| BamReportCacheJmsSystemModule           | System |
| BamServerJmsSystemResource              | System |
| BPMJmsModule                            | System |
| SOAJmsModule                            | System |
| UMSAQJmsSystemResource                  | System |
| JMSJmsSystemResource                    | System |

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. The 'Name' field is filled with 'FCUBSJMSModule'. The 'Descriptor File Name' and 'Location In Domain' fields are empty. The 'Next' button is highlighted.

**Create JMS System Module**

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

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

\* Indicates required fields

What would you like to name your System Module?

\* Name:

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

Descriptor File Name:

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

Location In Domain:

soa-infra (SOA Infrastruct... x FCL211QAR2 (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?CreateJMSModulePortlet\_actionOverride=/com/bee/console/actions/jms/modules/syste Google

**ORACLE WebLogic Server Administration Console 12c**

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

**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)         |

WebLogic Server Version: 12.1.3.0.0

**Create JMS System Module**

Back Next Finish Cancel

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

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

**Targets :**

**Servers**

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

Back Next Finish Cancel

soa-infra (SOA Infrastruct... x FCL211QAR2 (Oracle Web... x Settings for FCUBSJMSModule... 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

**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**

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.

**Configuration** Subdeployments Targets Security Notes

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

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

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

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

[Customize this table](#)

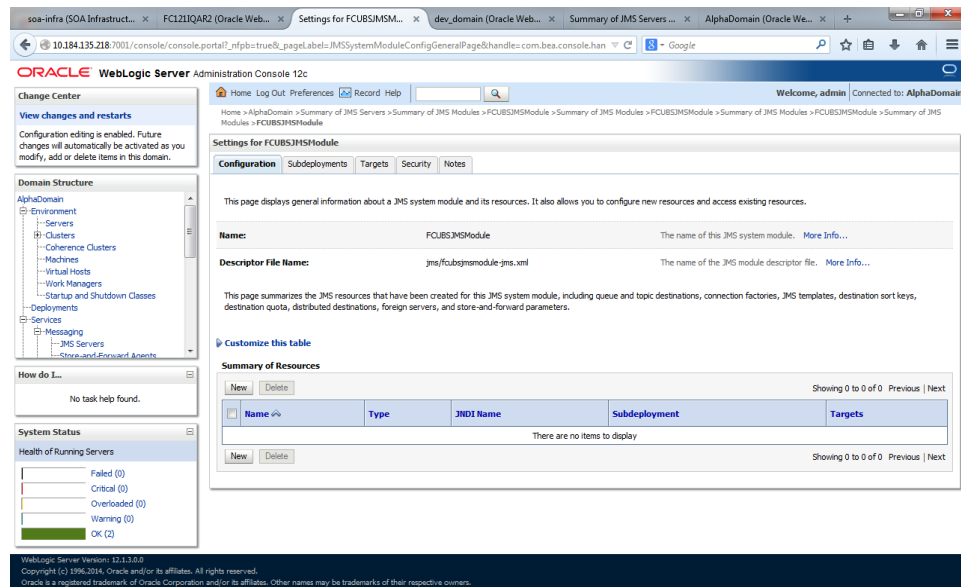
**Summary of Resources**

New Delete Showing 0 to 0 of 0 Previous Next

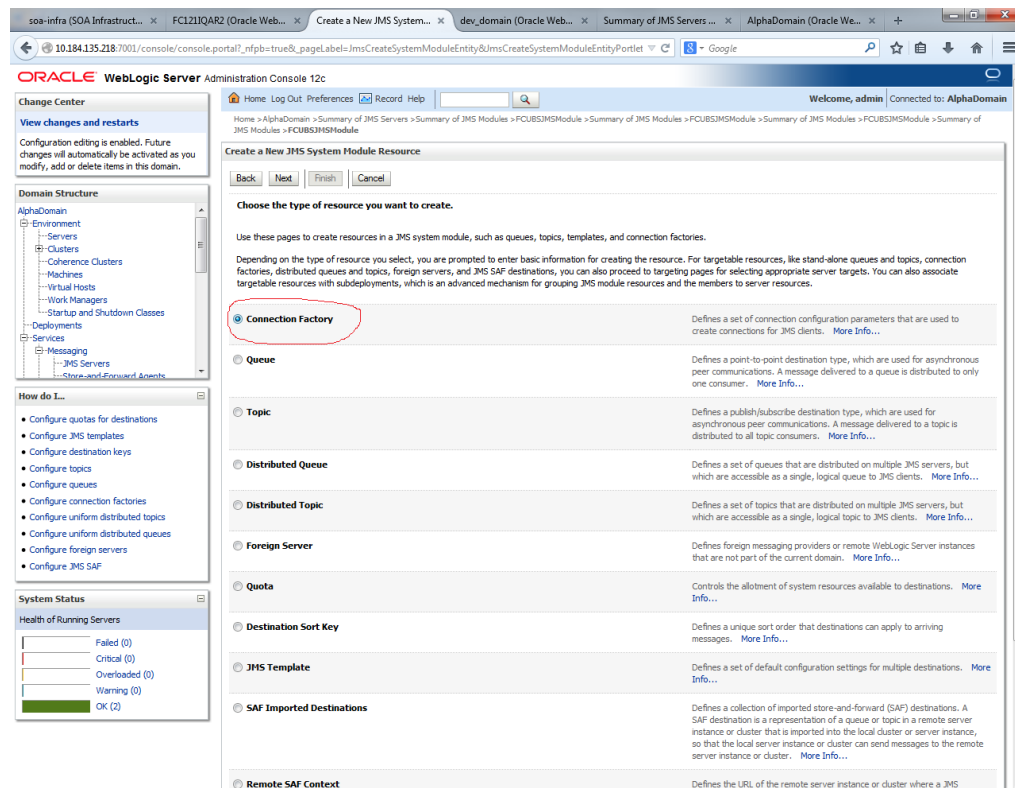
| <input type="checkbox"/>      | Name | Type | JNDI Name | Subdeployment | Targets |
|-------------------------------|------|------|-----------|---------------|---------|
| There are no items to display |      |      |           |               |         |

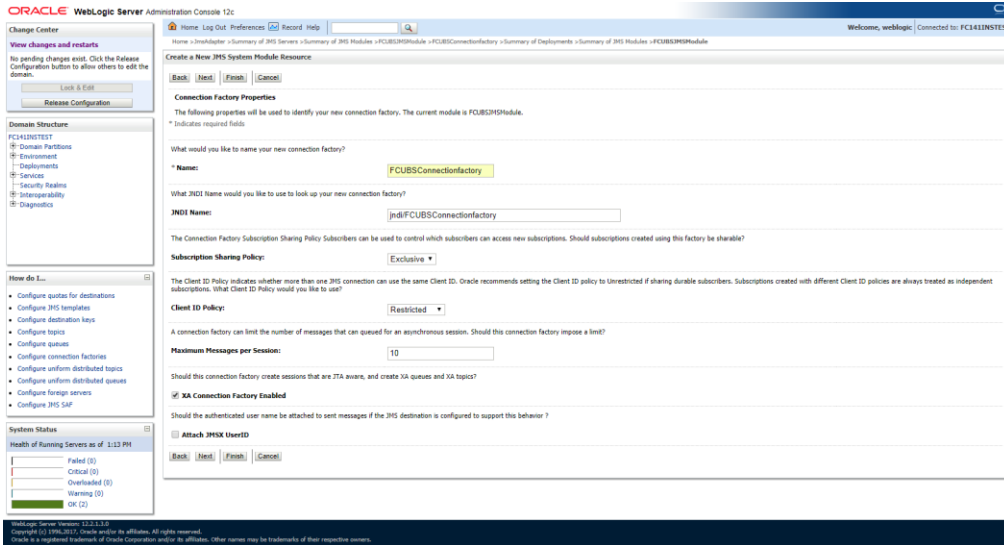
New Delete Showing 0 to 0 of 0 Previous Next

## 6. Go back to JMS Modules→FCUBSJMSModule→New

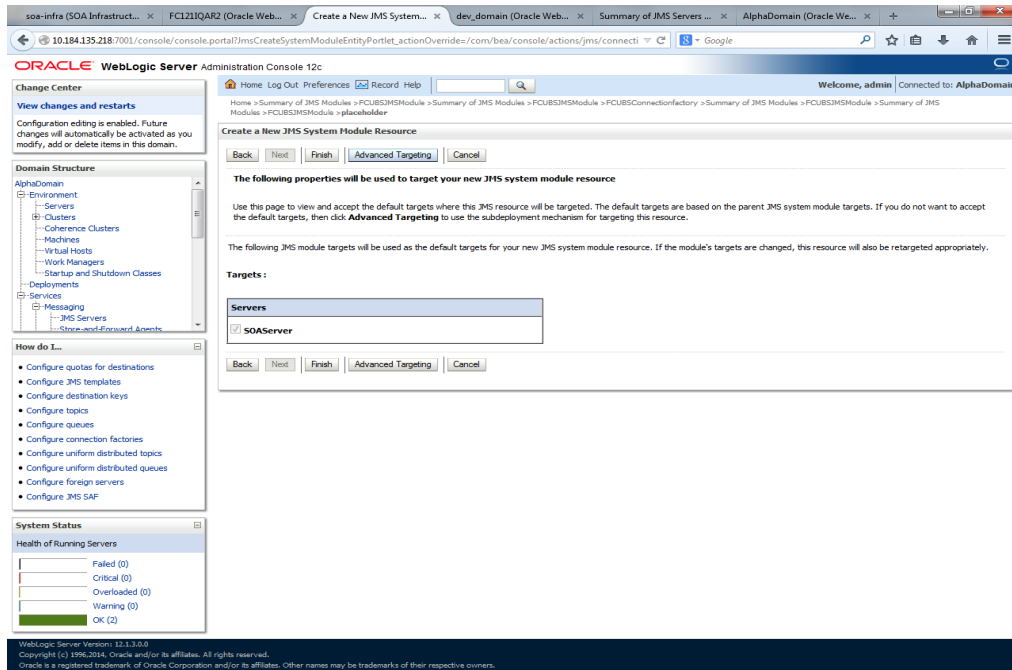


## 7. Click on Connection Factory→ next→Create the connection Factory with the below Names→Next





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



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

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**ORACLE WebLogic Server Administration Console 12c**

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

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 FC1211QAR2 (Oracle Web... x Create a New Subdeploy... 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 Instruct... 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 +

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**ORACLE WebLogic Server Administration Console 12c**

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

Modules > FCUBSJMSModule > placeholder

### Create a New JMS System Module Resource

Back Next Finish Cancel

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

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

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

Subdeployments: FCUBS Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets:

**Servers**

☐ SOAServer

**JMS Servers**

☐ BPMJMServer

☒ FCUBSJMServer

☐ SOAJMServer

☐ UMSJMServer\_auto\_2

Back Next Finish Cancel

**Change Center**

**View changes and restarts**

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

Activate Changes

Undo All Changes

**Domain Structure**

AlphaDomain

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

**How do I...**

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

**System Status**

**Health of Running Servers**

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

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**ORACLE WebLogic Server Administration Console 12c**

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

Modules > FCUBSJMSModule > placeholder

Messages

✓ All changes have been activated. No restarts are necessary.

✓ Connection factory created successfully.

### Settings for FCUBSJMSModule

Configuration Subdeployments Targets Security Notes

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

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

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

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

[Customize this table](#)

**Summary of Resources**

New Delete Showing 1 to 1 of 1 Previous Next

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

New Delete Showing 1 to 1 of 1 Previous Next

**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)

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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...  
No task help found.

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

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

Settings for FCUBSJMModule  
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: FCUBSJMModule The name of this JMS system module. [More Info...](#)

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

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

Customize this table

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

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

New Delete Showing 1 to 1 of 1 Previous | Next

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

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10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=JMSCreateSystemModuleEntityPortlet\_actionOverride=/com/bee/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...](#)

Back Next Finish Cancel

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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

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10.184.135.218:7001/console/console.portal?jmsCreateSystemModuleEntityPortlet\_actionOverride=/com/bea/console/actions/jms/modules

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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

**Create a New JMS System Module Resource**

Back Next Finish Cancel

**JMS Destination Properties**

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

\* Indicates required fields

\* Name: NOTIFY\_DEST\_QUEL

JNDI Name: jms/NOTIFY\_DEST\_QUEUE

Template: None

Back Next Finish Cancel

**Change Center**

**View changes and restarts**

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

**Domain Structure**

AlphaDomain

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

**How do I...**

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

**System Status**

**Health of Running Servers**

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

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10.184.135.218:7001/console/console.portal

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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

**Create a New JMS System Module Resource**

Back Next Finish Cancel

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

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

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

**Subdeployments:** FCUBS Create a New Subdeployment

What targets do you want to assign to this subdeployment?

**Targets:**

**JMS Servers**

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

Back Next Finish Cancel

**Change Center**

**View changes and restarts**

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

**Domain Structure**

AlphaDomain

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

**How do I...**

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

**System Status**

**Health of Running Servers**

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

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**Oracle WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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

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

How do I...  
No task help found.

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

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

Settings for FCUBSJMSModule  
Configuration Subdeployments Targets Security Notes

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

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

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

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

Customize this table

Summary of Resources

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

Showing 1 to 2 of 2 Previous Next

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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

|  |                               |           |         |                        |                                   |
|--|-------------------------------|-----------|---------|------------------------|-----------------------------------|
| soa-infra (SOA Infrastruct... x FC121IQAR2 (Oracle Web... x Summary of Deployment... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x |                               |           |         |                        |                                   |
| 10.184.135.218:7001/console/console.portal?_nfpb=true&_pageLabel=AppDeploymentsControlPage   |                               |           |         |                        |                                   |
| Google   |                               |           |         |                        |                                   |
|  | DMS Application (12.1.3.0.0)  | Active    | OK      | Web Application        | AdminServer, BAMServer, SOAServer |
|  | em                            | Active    | OK      | Enterprise Application | AdminServer                       |
|  | FUBSAppLUT (12.1.0.0.0)       | Active    | Warning | Enterprise Application | SOAServer                         |
|  | FileAdapter                   | Active    | OK      | Resource Adapter       | SOAServer                         |
|  | frevo                         | Active    | OK      | Enterprise Application | SOAServer                         |
|  | FtpAdapter                    | Active    | OK      | Resource Adapter       | SOAServer                         |
|  | GWWebServices (12.1.0.0.0)    | Active    | OK      | Enterprise Application | SOAServer                         |
|  | JDEWorldAdapter               | Installed |         | Resource Adapter       |                                   |
|  | JmsAdapter                    | Active    | OK      | Resource Adapter       | SOAServer                         |
|  | JmsAdapter, Level 1, 19 of 46 | Installed |         | Resource Adapter       |                                   |
|  | MQSeriesAdapter               | Active    | OK      | Resource Adapter       | SOAServer                         |
|  | MSMQAdapter                   | Installed |         | Resource Adapter       |                                   |
|  | OAAPredictionService          | Active    | OK      | Enterprise Application | SOAServer                         |
|  | OracleAppsAdapter             | Active    | OK      | Resource Adapter       | SOAServer                         |
|  | OracleBamAdapter              | Installed |         | Resource Adapter       |                                   |
|  | OracleBPMACServerApp          | Active    | OK      | Enterprise Application | SOAServer                         |
|  | OracleBPMComposerRolesApp     | Active    | OK      | Enterprise Application | SOAServer                         |
|  | OracleBPMProcessRolesApp      | Active    | OK      | Enterprise Application | SOAServer                         |
|  | OracleBPMWorkspace            | Active    | OK      | Enterprise Application | SOAServer                         |
|  | SAPAdapter                    | Installed |         | Resource Adapter       |                                   |
|  | SimpleApprovalTaskFlow        | Active    | OK      | Enterprise Application | SOAServer                         |
|  | soa-infra                     | Active    | OK      | Enterprise Application | SOAServer                         |
|  | soa-webapps                   | Active    | OK      | Enterprise Application | SOAServer                         |

10.184.135.218:7001/console/console.portal?\_nfpb=true&\_pageLabel=AppApplicationDispatcherPage&AppApplicationPortletHandle=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?\_pageLabels=ConnectorApplicationConfigurationOutboundConnectionPoolPage&\_nfpb=true&i Google

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

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

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

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

**Outbound Connection Pool Configuration Table**  
New Delete Showing 1 to 1 of 1 Previous | Next

| Groups and Instances                            | Connection Factory Interface                |
|---|---|
| [-] oracle.tp.adapter.jms.IJmsConnectionFactory | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/activemq/Queue                          | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/aqjms/EDNLocalTxDurableTopic            | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/aqjms/EDNLocalTxTopic                   | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/aqjms/EDNxaDurableTopic                 | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/aqjms/EDNxaTopic                        | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/aqjms/Queue                             | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/aqjms/Topic                             | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/floronomq/Topic                         | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/jbossmq/Queue                           | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/jms/aiaB2BQueueCF                       | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/jms/aiaErrorTopicCF                     | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/jpramati/Queue                          | oracle.tp.adapter.jms.IJmsConnectionFactory |
| [-] eis/jsumq/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 |

soa-infra (SOA Infrastruct... x FCL21IQR2 (Oracle Web... x Create a New Outbound ... x dev\_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

10.184.135.218/7001/console/console.portal?\_nfpb=true&\_pageLabels=ConnectorCreateOutboundConnectionPage 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 outbound connection pool properties

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

Home > FCUBSConnectionFactory > 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

WebLogic Server Version: 12.1.3.0.0  
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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 left sidebar contains the 'Domain Structure' tree with 'AlphaDomain' expanded, showing 'Environment', 'Servers', 'Clusters', 'Coherence Clusters', 'Machines', 'Virtual Hosts', 'Work Managers', 'Startup and Shutdown Classes', 'Deployments', 'Services', 'Messaging', 'JMS Servers', and 'Store-and-Forward Agents'. The 'How do I...' section has a link to 'Configure outbound connection pool properties'. The 'System Status' section shows 'Health of Running Servers' with 0 Failed, 0 Critical, 0 Overloaded, 0 Warning, and 2 OK.

The main content area displays the 'Settings for oracle.tip.adapter.jms.DmsConnectionFactory' page. The 'Properties' tab is selected. The page allows viewing and modifying configuration properties for this outbound connection pool. The 'Outbound Connection Properties' table is shown below.

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

The screenshot shows the Oracle WebLogic Server Administration Console after a successful deployment. The left sidebar is the same as the previous screenshot. The main content area displays the 'Settings for oracle.tip.adapter.jms.DmsConnectionFactory' page. The 'Properties' tab is selected. The page allows viewing and modifying configuration properties for this outbound connection pool. The 'Outbound Connection Properties' table is shown below.

| 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                    |

soa-infra (SOA Infrastructure) ...

FCL21IQR2 (Oracle Web...)

Summary of Deployment...

dev-oracle (Oracle Web...)

Summary of JMS Pro...

AlphaDomain (Oracle We...

10.184.135.218:7001/console/console.port?\_nfb=true&\_pageLabel=AppDeploymentsControlPage

Google

Clusters

Coherence Clusters

Machines

Virtual Hosts

Work Managers

Startup and Shutdown Classes

Deployments

Services

Messaging

JMS Servers

Store-and-Forward Agents

How do I...

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

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

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

Customize this table

Deployments

Install

Update

Delete

Start

Stop

Showing 1 to 46 of 46 Previous | Next

| Name                         | State     | Health  | Type                   | Targets                           | Deployment Order |
|------------------------------|-----------|---------|------------------------|-----------------------------------|------------------|
| AqAdapter                    | Prepared  | OK      | Resource Adapter       | SOAServer                         | 324              |
| h2buzai                      | 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              |
| OBAdapter                    | 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                |
| edm                          | Active    | OK      | Enterprise Application | AdminServer                       | 400              |
| FCUBSAppTUT (12.1.0.0.0)     | Active    | Warning | Enterprise Application | SOAServer                         | 600              |
| FileAdapter                  | Active    | OK      | Resource Adapter       | SOAServer                         | 321              |
| Revvo                        | Active    | OK      | Enterprise Application | SOAServer                         | 100              |
| UPAdapter                    | Active    | OK      | Resource Adapter       | SOAServer                         | 325              |
| OWBWebServices (12.1.0.0.0)  | Active    | OK      | Enterprise Application | SOAServer                         | 600              |
| DEVWorldAdapter              | Installed |         | Resource Adapter       |                                   | 333              |

1-33

**Oracle WebLogic Server Administration Console 12c**

Welcome, admin | Connected to: AlphaDomain

**Summary of Deployments**

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**

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

Showing 1 to 46 of 46 Previous | Next

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

## 1.2.7 Configuring FTP Adapter

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with 'View changes and restarts', 'Domain Structure' (AlphaDomain, Environment, Deployments, Services, Security Realms, Interoperability, Diagnostics), 'How do I...' (Configure outbound connection pool properties), and 'System Status' (Health of Running Servers: Failed (0), Critical (0), Overloaded (0), Warning (0), OK (2)). The main content area is titled 'Settings for FtpAdapter' and has tabs for Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. The 'Configuration' tab is active, and the 'Outbound Connection Pools' sub-tab is selected. A text block explains that the page displays a table of Outbound Connection Pool groups and instances. Below this is the 'Outbound Connection Pool Configuration Table' with columns for 'Groups and Instances' and 'Connection Factory Interface'. The table lists several instances, all using 'javax.resource.cdi.ConnectionFactory'. At the bottom, it says 'Showing 1 to 1 of 1 Previous | Next'.

The screenshot shows the 'Create a New Outbound Connection' wizard in the Oracle WebLogic Server Administration Console. The left sidebar is identical to the previous screenshot. The main content area is titled 'Create a New Outbound Connection' and has buttons for 'Back', 'Next', 'Finish', and 'Cancel'. The 'JNDI name for Outbound Connection Instance' section prompts the user to 'Enter the JNDI name that you want to use to obtain the new connection instance'. Below this, it states '\* Indicates required fields'. The 'JNDI Name' field is populated with 'eis/ftp/FtpAdapterLcl'. At the bottom, it says 'Showing 1 to 1 of 1 Previous | Next'.

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

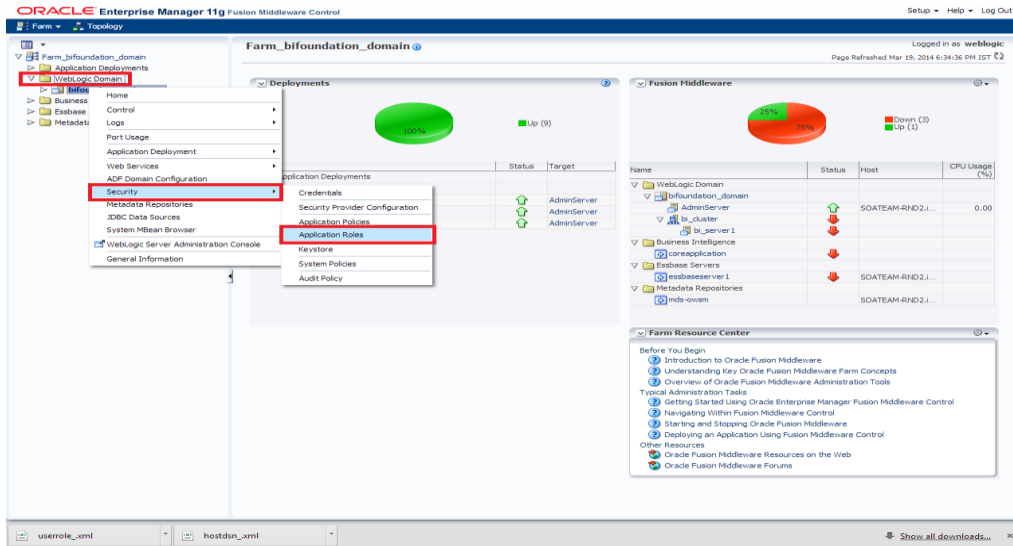
1. Login to the BIP domain console, <http://s:<hostname>:<port>/console>.
2. Follow the step 1.2.1 to add the “FCJCustomProvider”.

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. The left sidebar contains navigation links: Change Center, Domain Structure (with 'Security Realms' highlighted), How do I..., and System Status. The main content area is titled 'Settings for myrealm' and has tabs for Configuration, Users and Groups (selected), Roles and Policies, Credential Mappings, Providers, and Migration. Under the 'Users and Groups' tab, the 'Users' sub-tab is active. A message states: 'This page displays information about each user that has been configured in this security realm. Some results are not displayed because there are too many matches. Please customize this table to specify more specific criteria.' Below this is a table with columns 'Name', 'Description', and 'Provider'. The table lists several users, all with 'FCJCustomProvider' as the provider. The footer of the console shows 'WebLogic Server Version: 10.3.6.0' and copyright information.

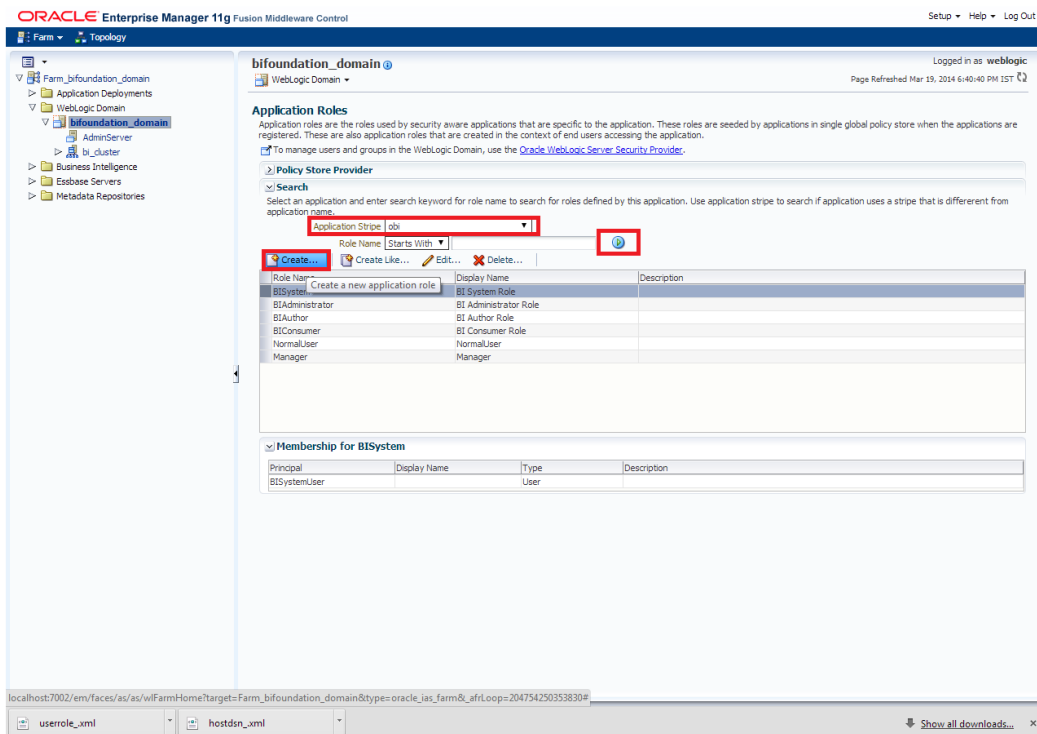
| Name      | Description           | Provider          |
|-----------|-----------------------|-------------------|
| 000ANT1   | Default Admin User 1  | FCJCustomProvider |
| 11113RM_3 | Siveta                | FCJCustomProvider |
| 11113RM_4 | RM                    | FCJCustomProvider |
| 112233    | Default Admin User 10 | FCJCustomProvider |
| 121212    | Default Admin User 10 | FCJCustomProvider |
| 123456    | SANKER GS             | FCJCustomProvider |
| 141414    | Default Admin User 10 | FCJCustomProvider |
| 15259A03  | Kumar                 | FCJCustomProvider |
| 1M20862   | BALA                  | FCJCustomProvider |
| 20862A1   | Bala                  | FCJCustomProvider |

3. Login to the Enterprise Manager (em) <http://s:<hostname>:<port>/em>
  - Right click on the domain(in which BI suite is installed) under the weblogic domain
  - Go to security and then navigate to application roles

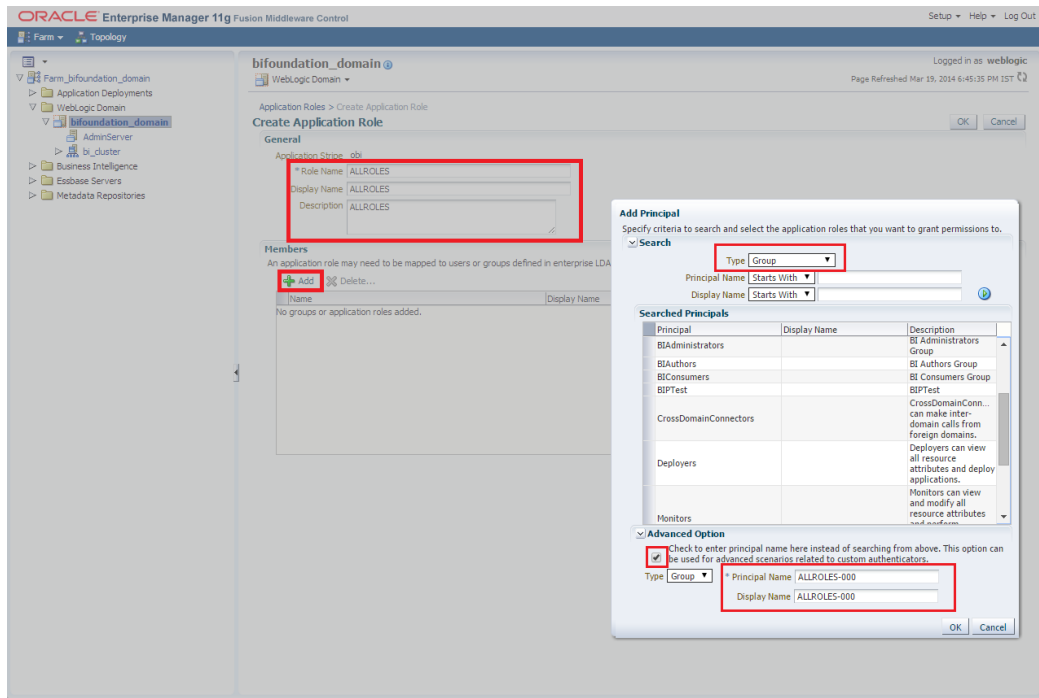


4. After navigating to next screen as in below screenshot,

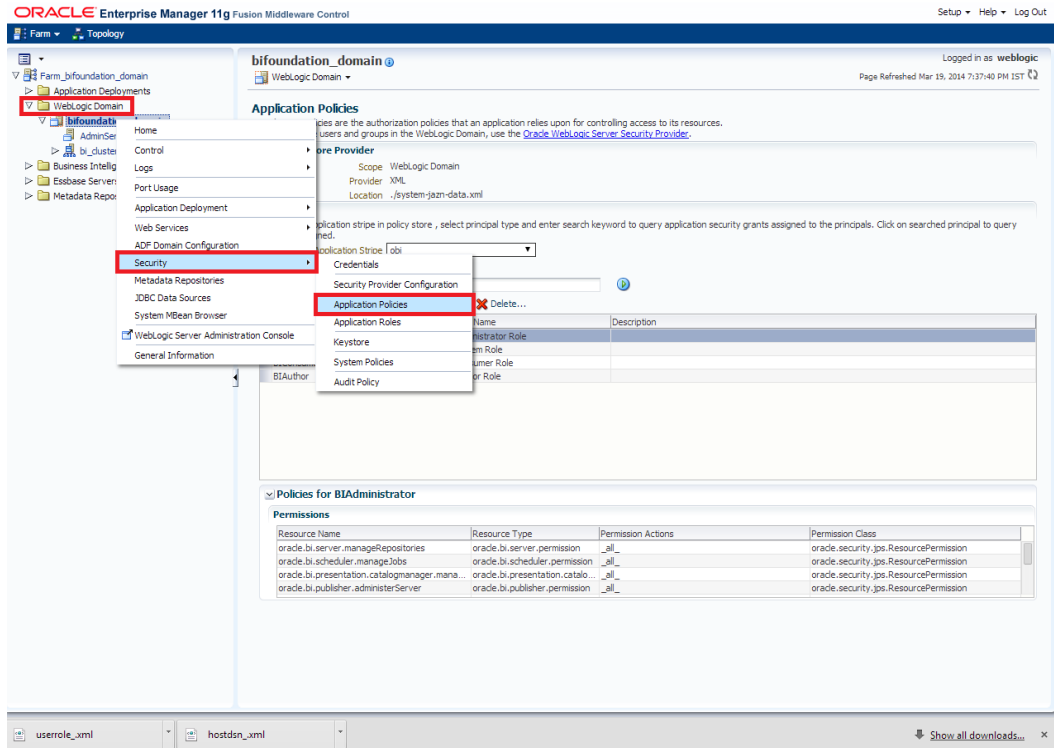
- Select application stripe as obi
- Click on the search button
- Click on create button to add a role



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

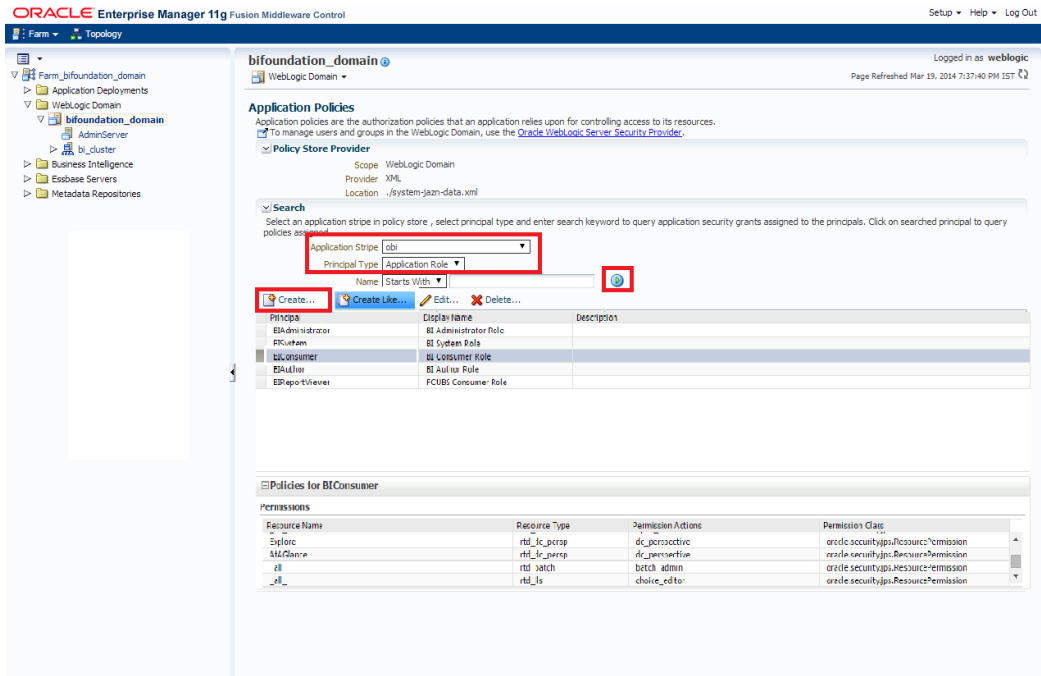


6. After getting information message like “A new role added successfully”, then again
  - Right click on the domain(in which BI suite is installed) under the weblogic domain
  - Go to security and then navigate to application polices

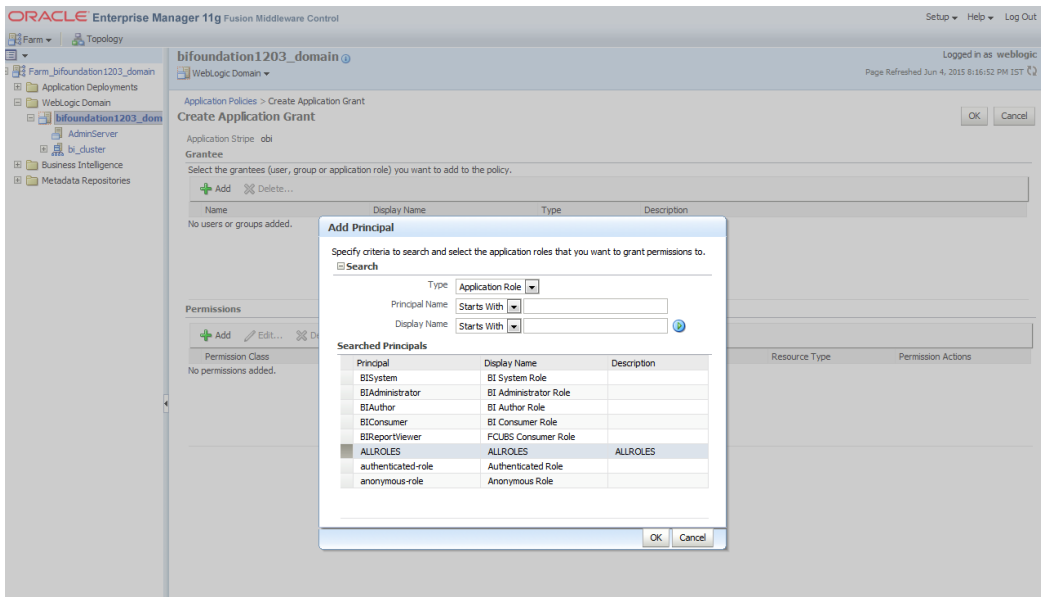


7. After navigating to next screen as per screen shot,

- Select the application stripe as obi, principal type as “Application Role”
- Click on the search button
- Select BIConsumer(it should be highlighted) from the list and click on the create like button.

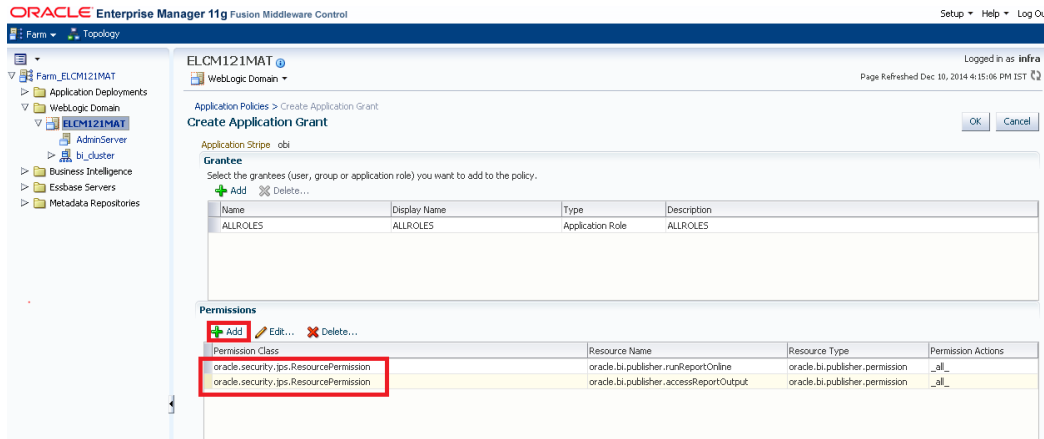


8. After navigating to next screen as per the screen shot,
  - Click on Add button , a new window “Add Principal” will be launched.
  - Select Type as “Application Role” and click on the search button
  - From the list select the role that has been created earlier in application role screen and click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

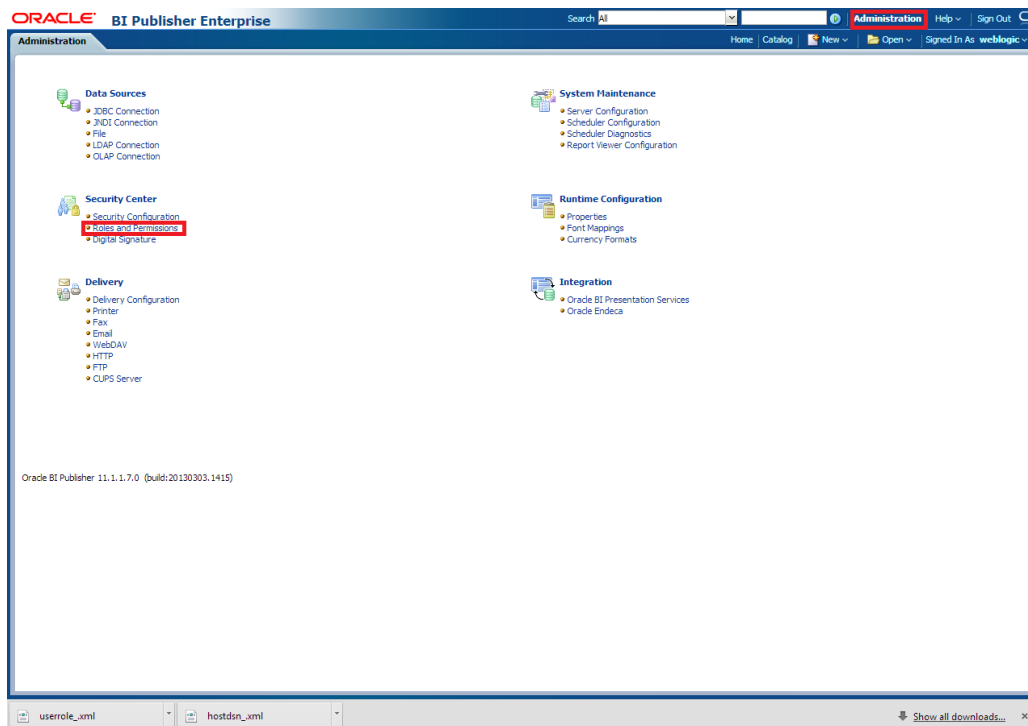


- Click Add button under Permissions and add the two permissions one by one as mentioned below.

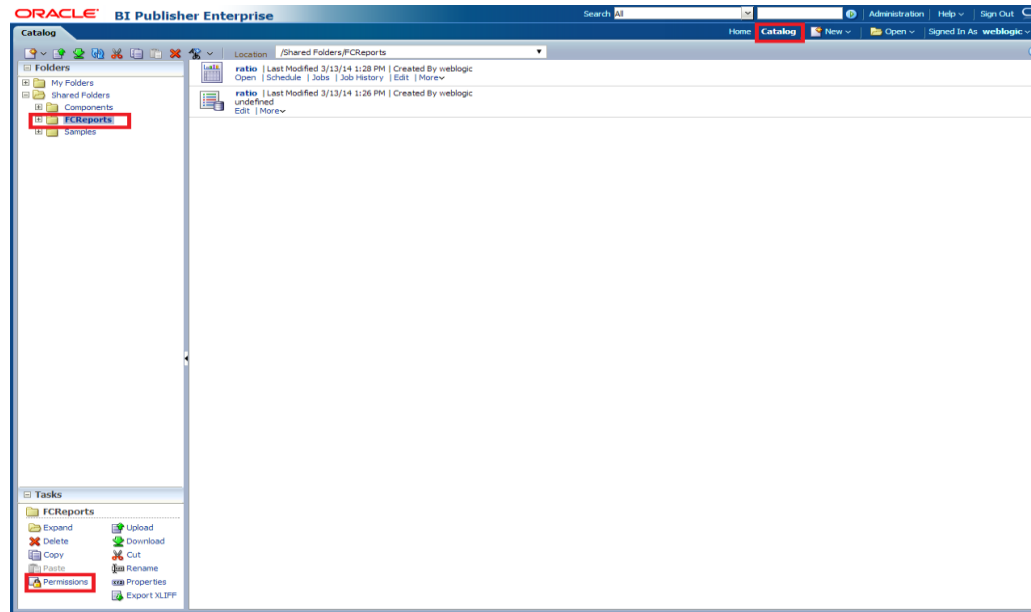
- oracle.bi.publisher.runReportOnline
- oracle.bi.publisher.accessReportOutput



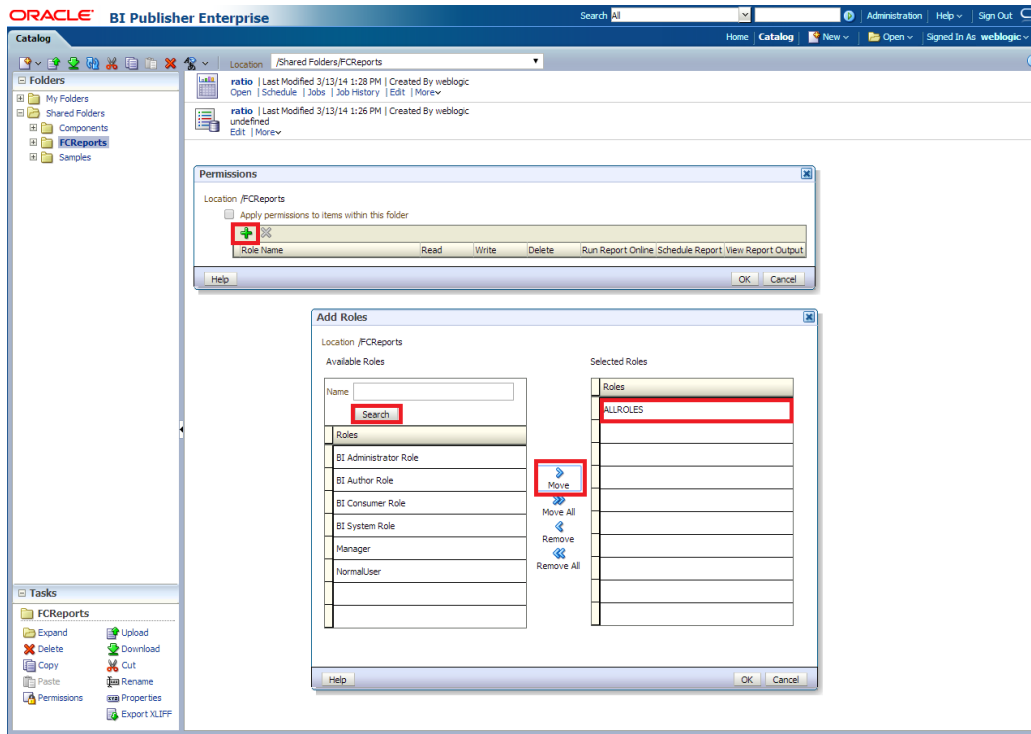
9. After getting information message like “A security added successfully”,
  - Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpserver`
  - Click on the Administration .
  - Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart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



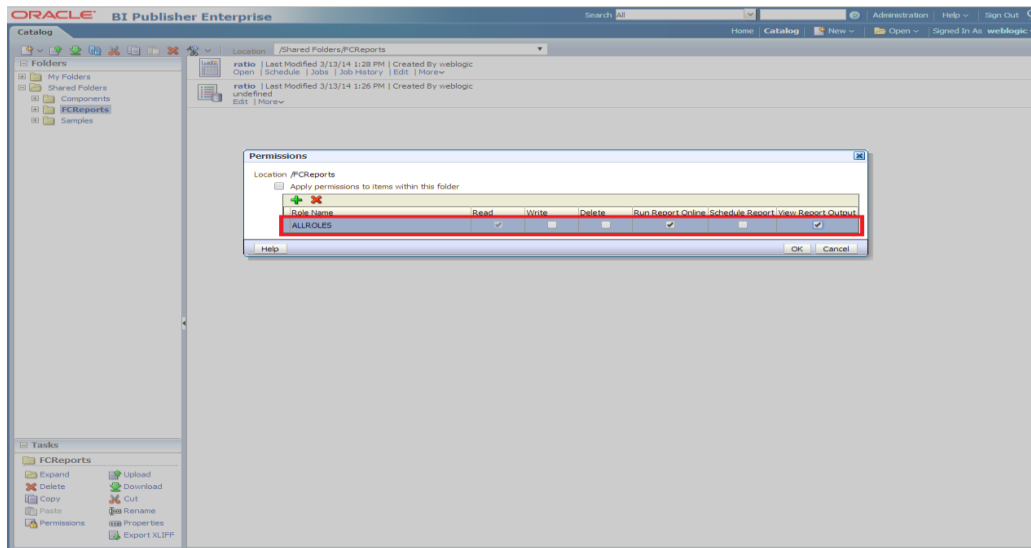
10. Then click on the Catalog , then on the folder that has been created , and then on permissions



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



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



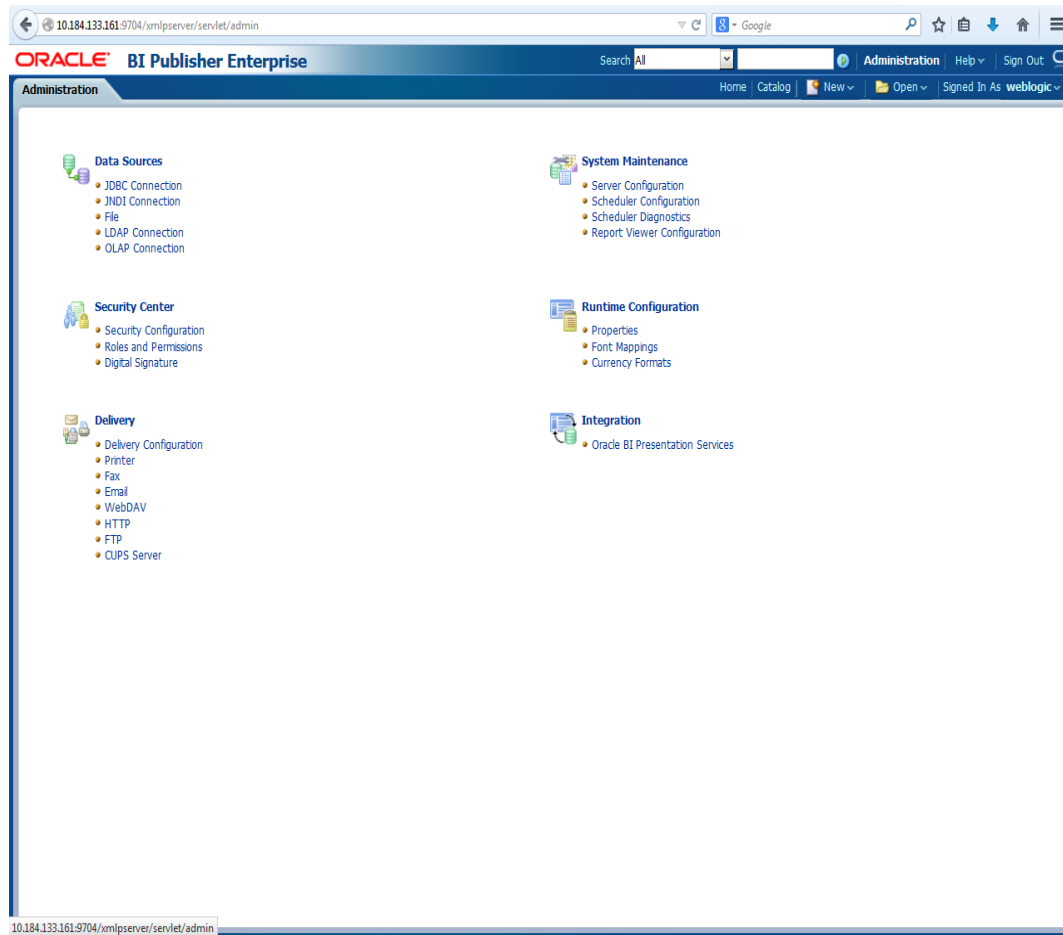
Now the reports in the folder will be accessed accordingly based on the roles.

**Note:**

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

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

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



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

Administration 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/server/servlet/adm/datasource/connectionhome?vcoe=idbc& sTkn=5ec2d6c614e67518204

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

Administration 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     |        |
| FC1202UBS        | jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW  |        |
| FC121DEV         | jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW  |        |
| FCBJP            | jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C  |        |
| FCOR121DEV       | jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C  |        |
| FCOR121LUT       | jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C  |        |
| FCUBS1203        | jdbc:oracle:thin:@10.184.132.137:1521:FCPATC2  |        |
| FCUBS121         | jdbc:oracle:thin:@whf00aew:1521:ORFC12C        |        |
| FCUBS12C         | jdbc:oracle:thin:@10.184.132.172:1521:FCUBS12C |        |
| fcubswf1202      | jdbc:oracle:thin:@10.184.149.52:1521:SOADB     |        |

Add Data Source Previous 1-10 of 16 Next 6

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

The screenshot shows the 'Add Data Source' configuration page in the Oracle BI Publisher Enterprise Administration console. The page is divided into two main sections: 'General' and 'Backup Data Source'.

**General Section:**

- 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:** ☐ (unchecked)
- Username:** DEV12C\_SOAINFRA
- Password:** [masked]
- Pre Process Function:** [empty]
- Post Process Function:** [empty]
- Use Proxy Authentication:** ☐ (unchecked)
- Test Connection:** [button]

**Backup Data Source Section:**

- Use Backup Data Source:** ☐ (unchecked)
- Connection String:** [empty]
- Username:** [empty]
- Password:** [empty]
- Test Connection:** [button]

16. Add the fcubs roles to allowed Roles under security

The screenshot shows the 'Security' configuration page in the Oracle BI Publisher Enterprise Administration console. The page is divided into two main sections: 'Backup Data Source' and 'Security'.

**Backup Data Source Section:**

- Use Backup Data Source:** ☐ (unchecked)
- Connection String:** [empty]
- Username:** [empty]
- Password:** [empty]
- Test Connection:** [button]

**Security Section:**

- Allow Guest Access:** ☐ (unchecked)
- Available Roles:**
  - BI Administrator Role
  - BI Author Role
  - BI Consumer Role
  - BI System Role
  - FCUBS Consumer Role
- Allowed Roles:**
  - ALL ROLES
- Move:** [button]
- Move All:** [button]
- Remove:** [button]
- Remove All:** [button]

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

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

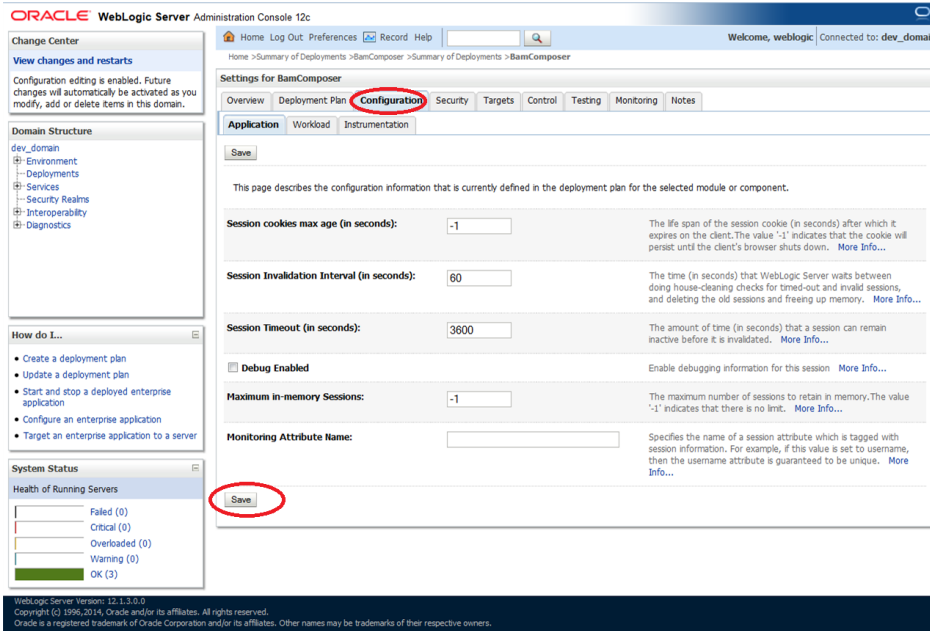
## 1.2.8 BAM Report Configuration settings

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

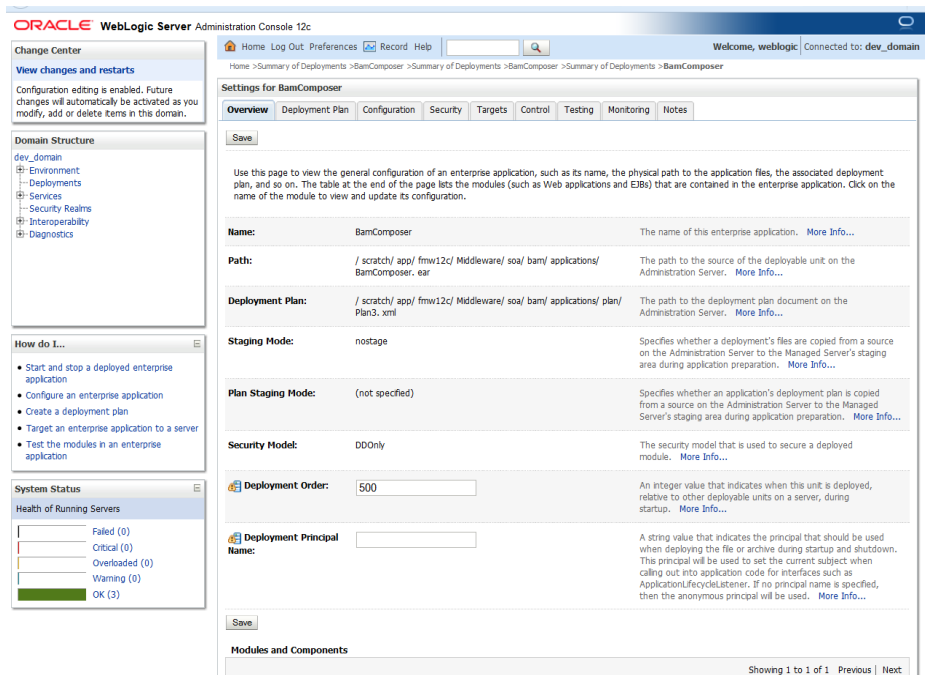
The screenshot shows the Oracle WebLogic Server Administration Console. The main area displays the 'Summary of Deployments' page. On the left, the 'Domain Structure' tree shows 'dev\_domain' expanded, with 'Deployments' selected. The 'Deployments' table lists the following applications:

| 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.

Customize this table

Deployments

Showing 1 to 47 of 47 Previous Next

| Name                         | Health    | Type                   | Targets                               | Deployment Order |
|------------------------------|-----------|------------------------|---------------------------------------|------------------|
| AqAdapter                    | Active    | Resource Adapter       | soa_server1                           | 324              |
| ib2bul                       | Active    | Enterprise Application | soa_server1                           | 313              |
| <b>BAMComposer</b>           | 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       | AdminServer, 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        | AdminServer, bam_server1, soa_server1 | 5                |
| em                           | Active    | Enterprise Application | AdminServer                           | 400              |
| FCUBSAppJUT (12.1.0.0.0)     | Active    | Enterprise Application | soa_server1                           | 600              |
| FCUBSAppSoaEmb (12.1.0.0.0)  | Prepared  | Enterprise Application | soa_server1                           | 601              |
| FileAdapter                  | Active    | Resource Adapter       | soa_server1                           | 321              |
| frevo                        | Installed | Enterprise Application |                                       | 100              |
| IdmAdapter                   | Active    | Resource               | soa_server1                           | 325              |

How do I...  
 • Install an enterprise application  
 • Configure an enterprise application  
 • Update (redeploy) an enterprise application  
 • Start and stop a deployed enterprise application  
 • Monitor the modules of an enterprise application  
 • Deploy EJB modules  
 • Install a Web application

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

## 8. Update the deployment plan.

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

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev\_domain

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

**Summary of Deployments**

Control Monitoring

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

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

**Customize this table**

**Deployments**

Install Update Delete Start Stop

Showing 1 to 47 of 47 Previous Next

| Name                         | State     | Health | Type                   | Targets                               | Deployment Order |
|------------------------------|-----------|--------|------------------------|---------------------------------------|------------------|
| AqAdapter                    | Active    | OK     | Resource Adapter       | soa_server1                           | 324              |
| b2bui                        | Active    | OK     | Enterprise Application | soa_server1                           | 313              |
| <b>BamComposer</b>           | Active    | OK     | Enterprise Application | bam_server1                           | 500              |
| BamCQService                 | Active    | OK     | Enterprise Application | bam_server1                           | 380              |
| 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

Summary of Deployments > BamComposer > Summary of Deployments > BamComposer > Summary of Deployments > BamComposer > 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**

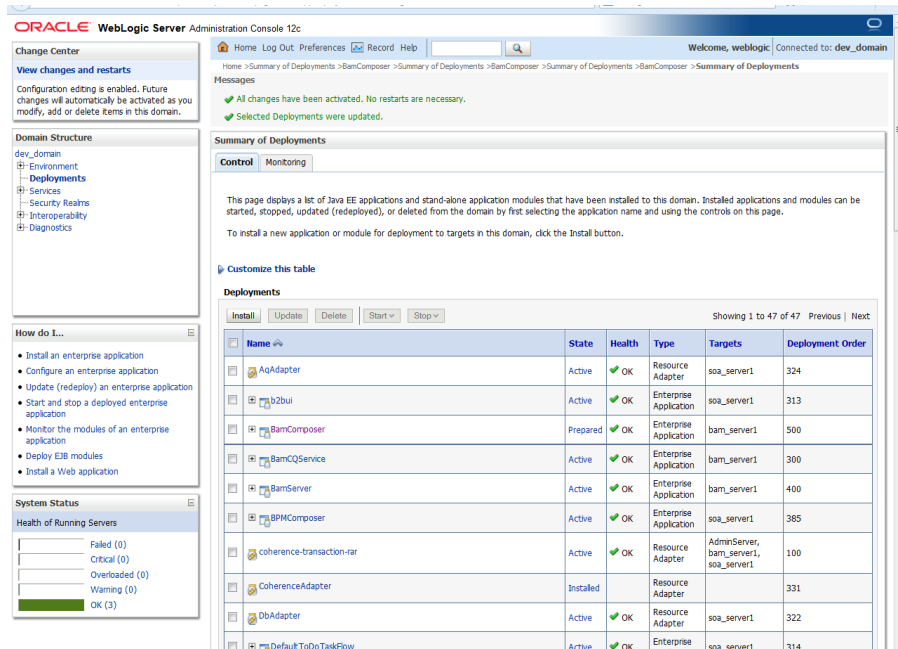
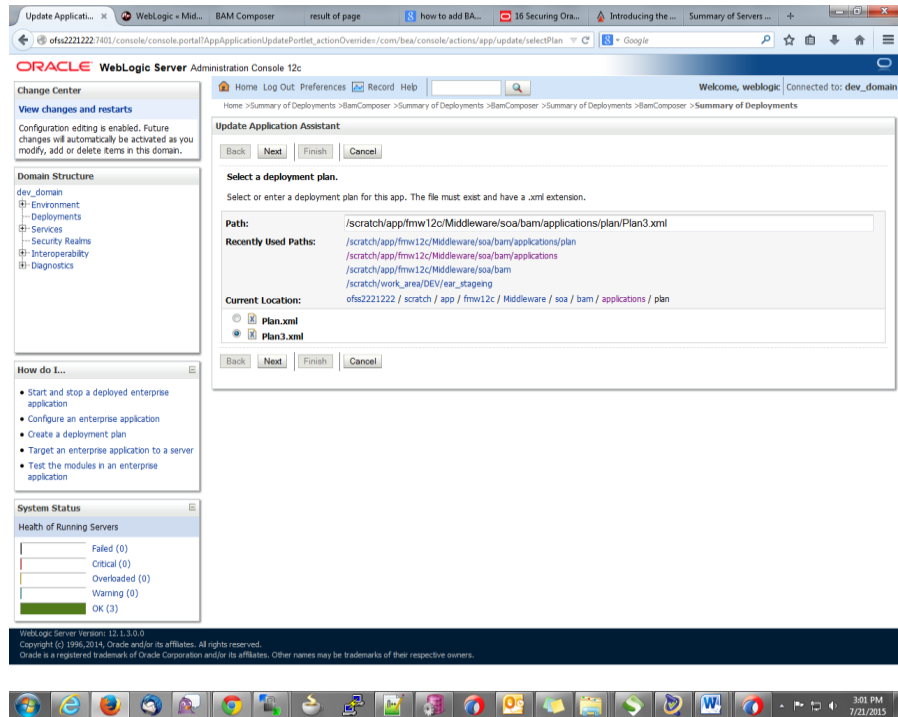
**Redeploy this application using the following deployment files:**

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

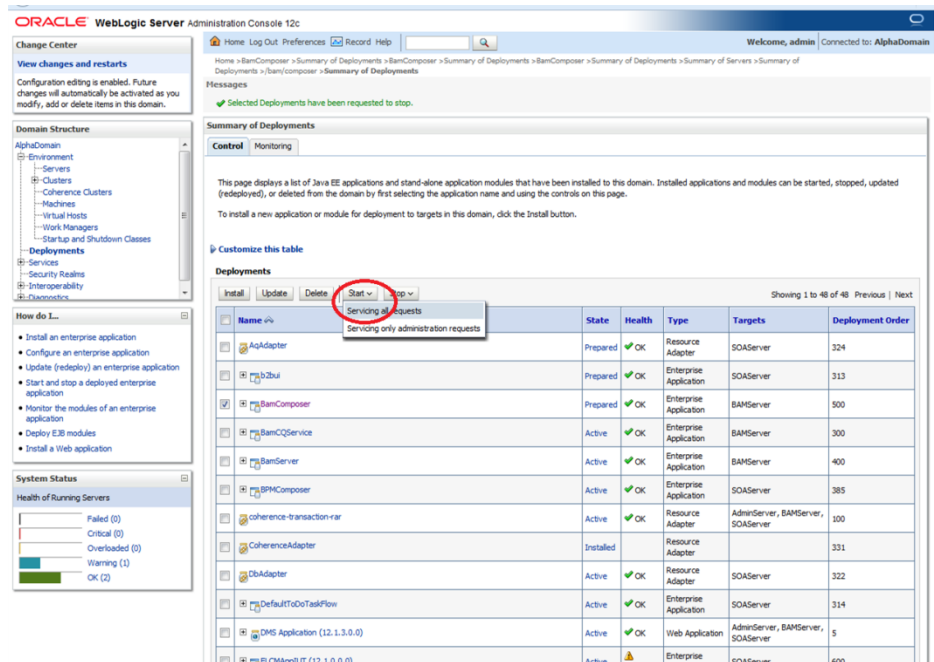
**Deployment plan path:** /scratch/app/fmw12c/Middleware/soa/bam/applications/plan/Plan3.xml **Change Path**

Back Next Finish Cancel

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

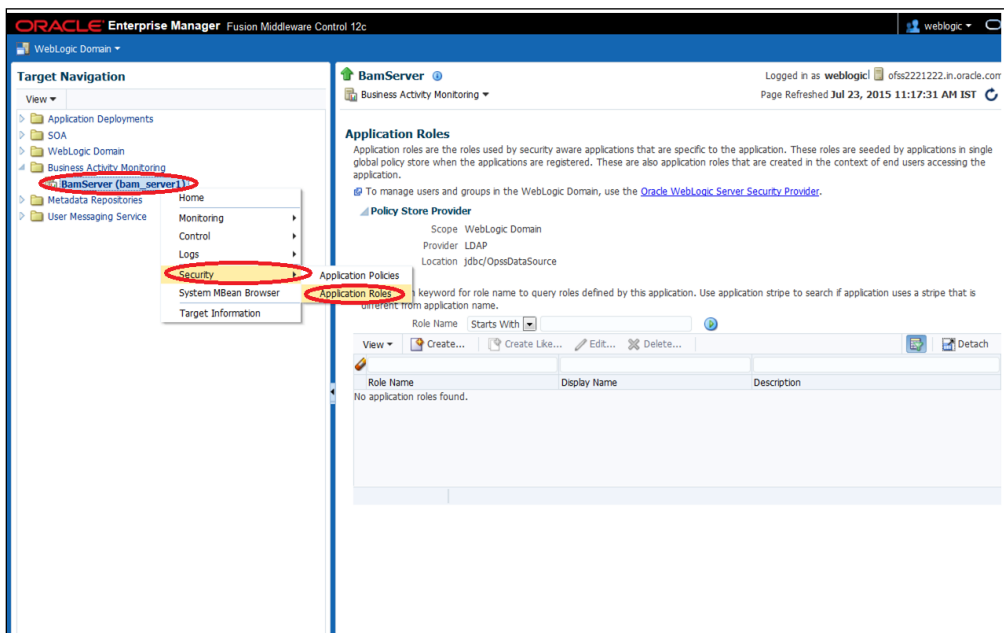


12. Restart the BAM Composer application in the console

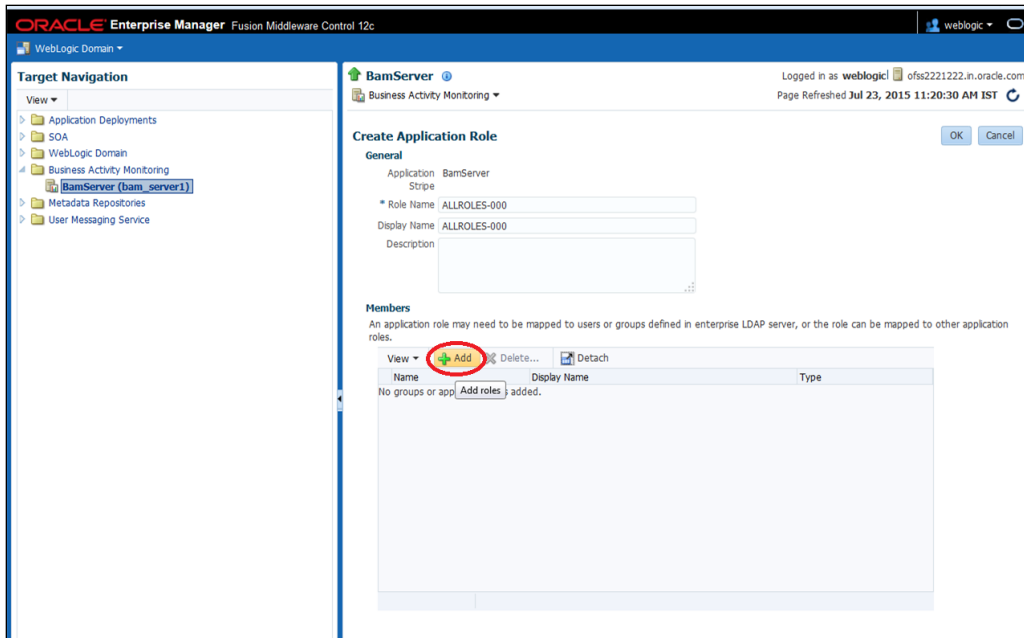


13. Login in to em console <http://hostname:port/em>

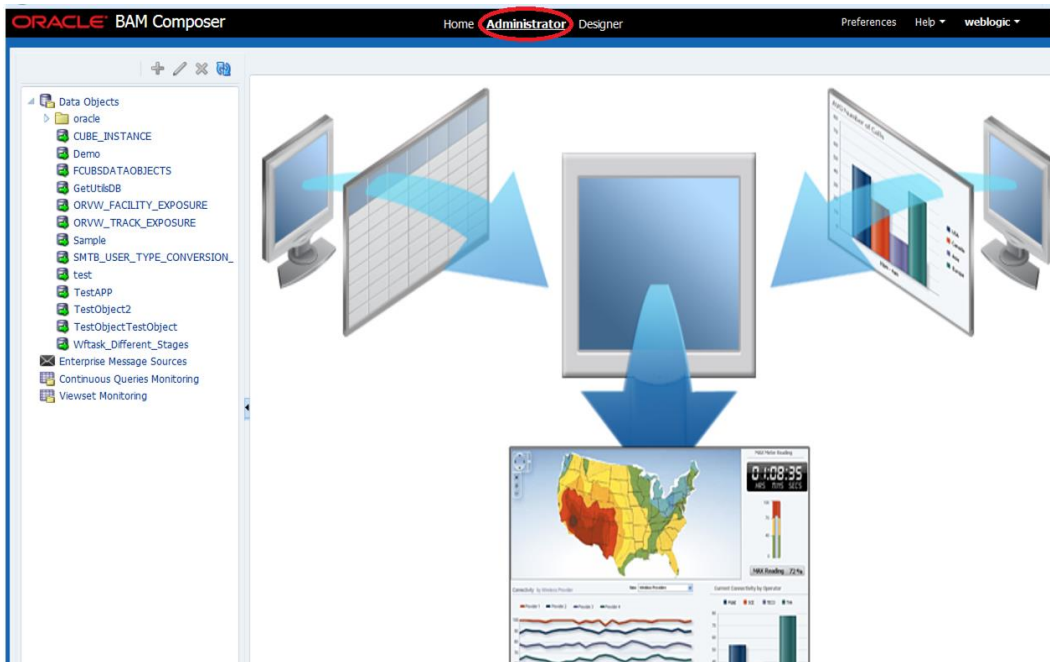
14. Right Click on BAM Server → Security → Application Roles



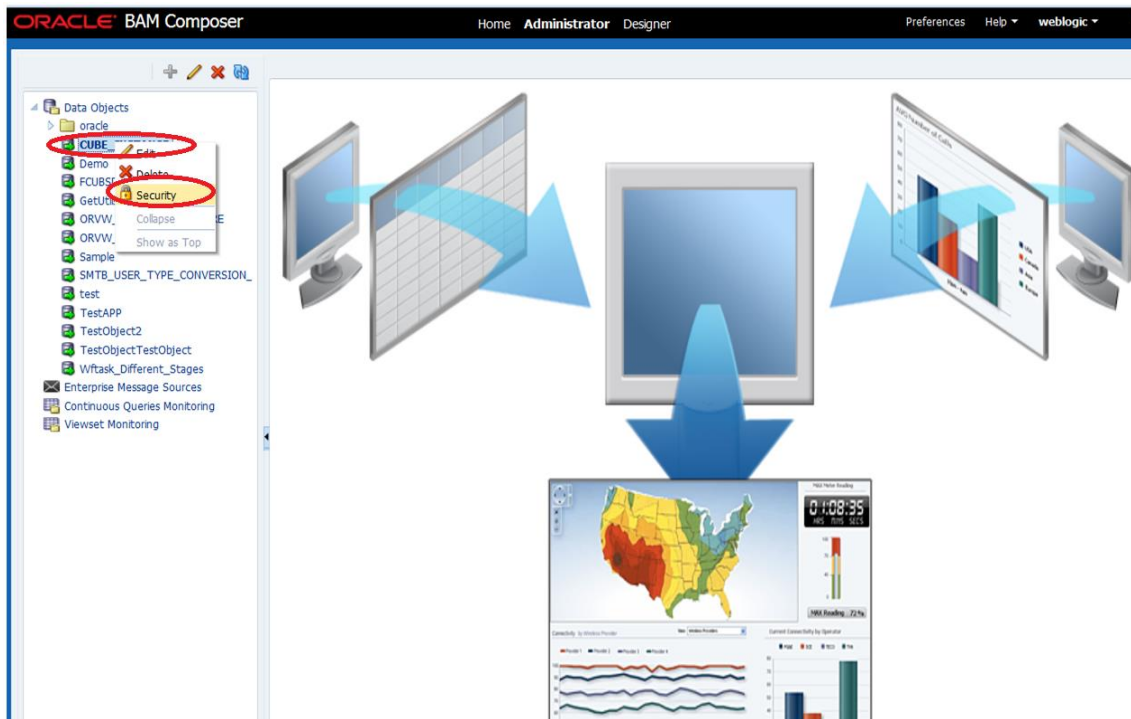
15. Click on Create → create application role with ALL ROLES-000 → Click on ADD button in the Members



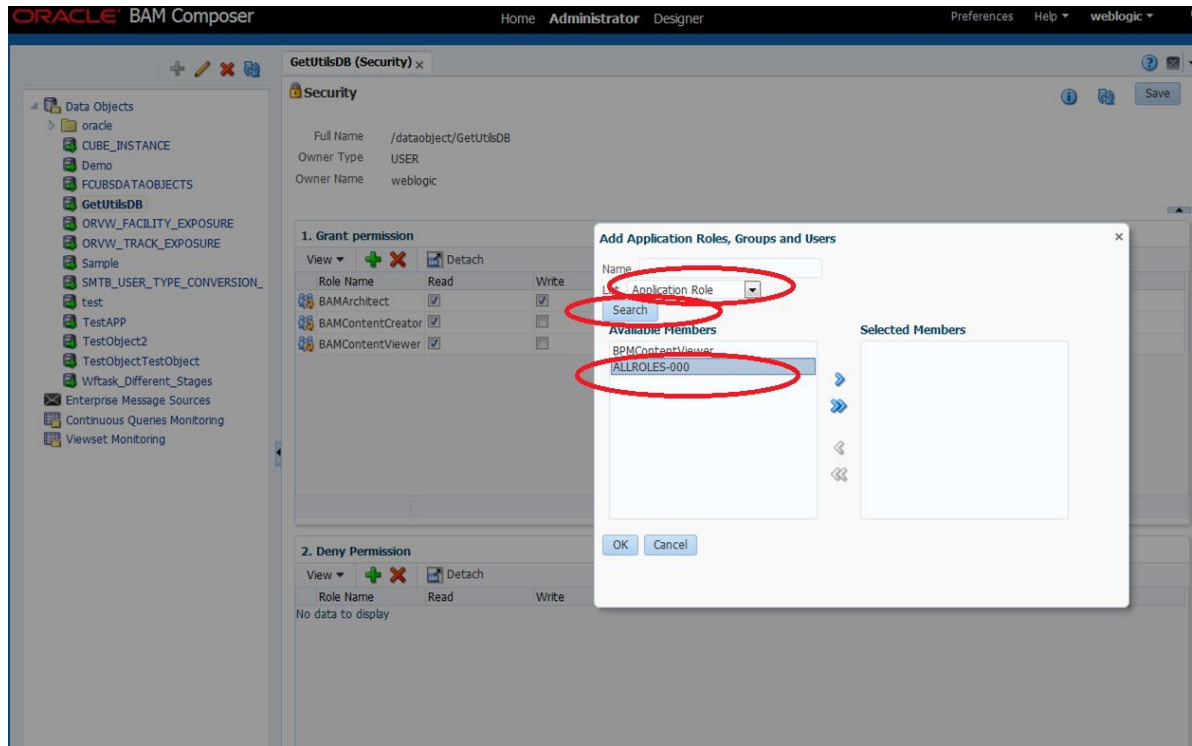
16. Select the Type as Group and add principle details be referring the below screen shot.
17. Login to BAM Composer → <http://hostname:port/bam/composer-->> Click on Administrator.



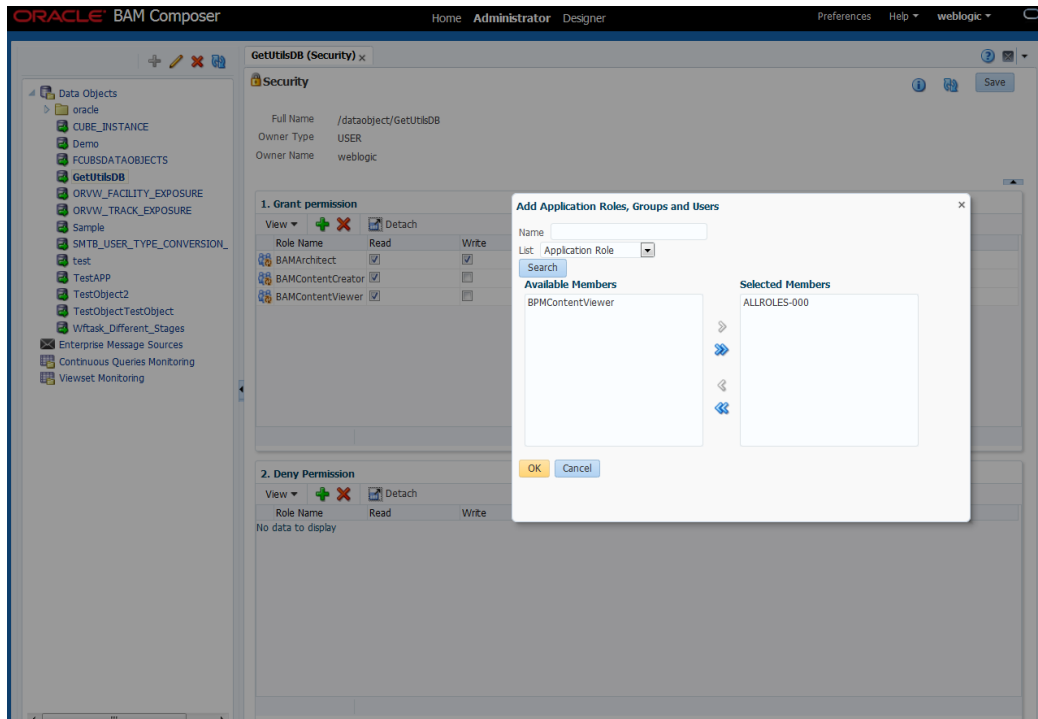
18. Go to Data Object→Right Click on CUBE\_INSTANCE→Security



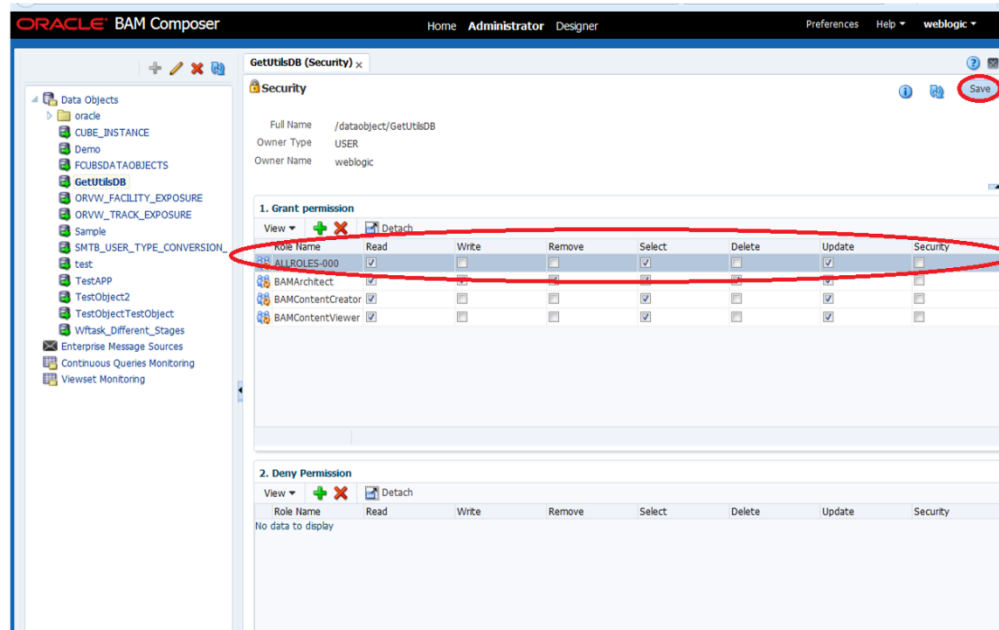
19. Click on Add button under Grant permission and search the list based on the Application Role



20. Move the ALLROLES-000 to Selected members.

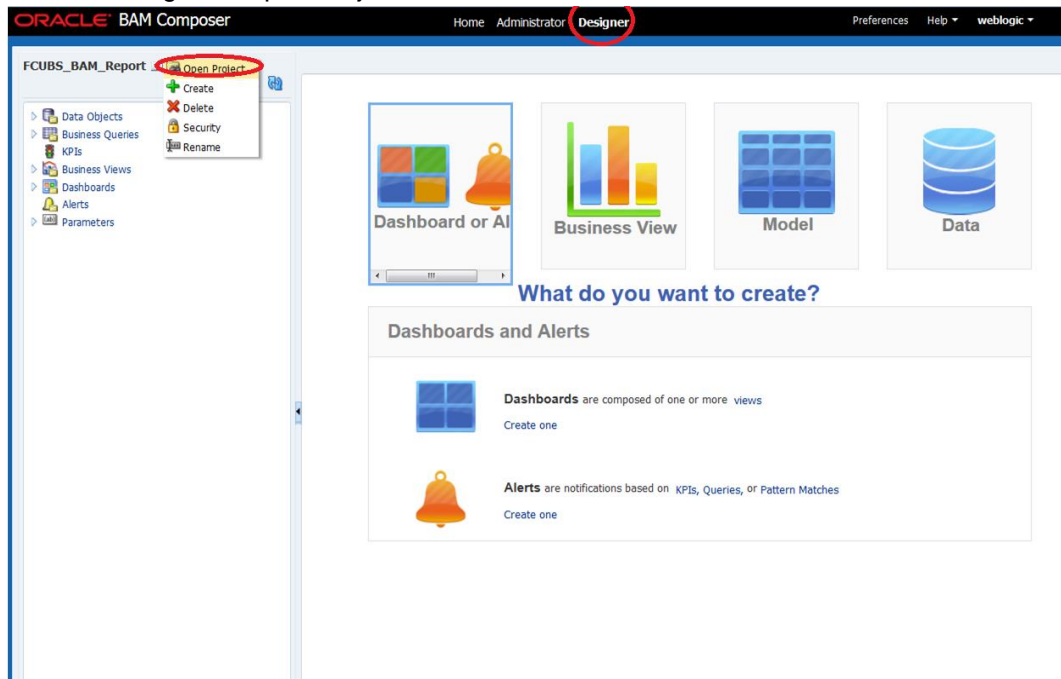


21. Click on read, select and Update check boxes → Click on Save.

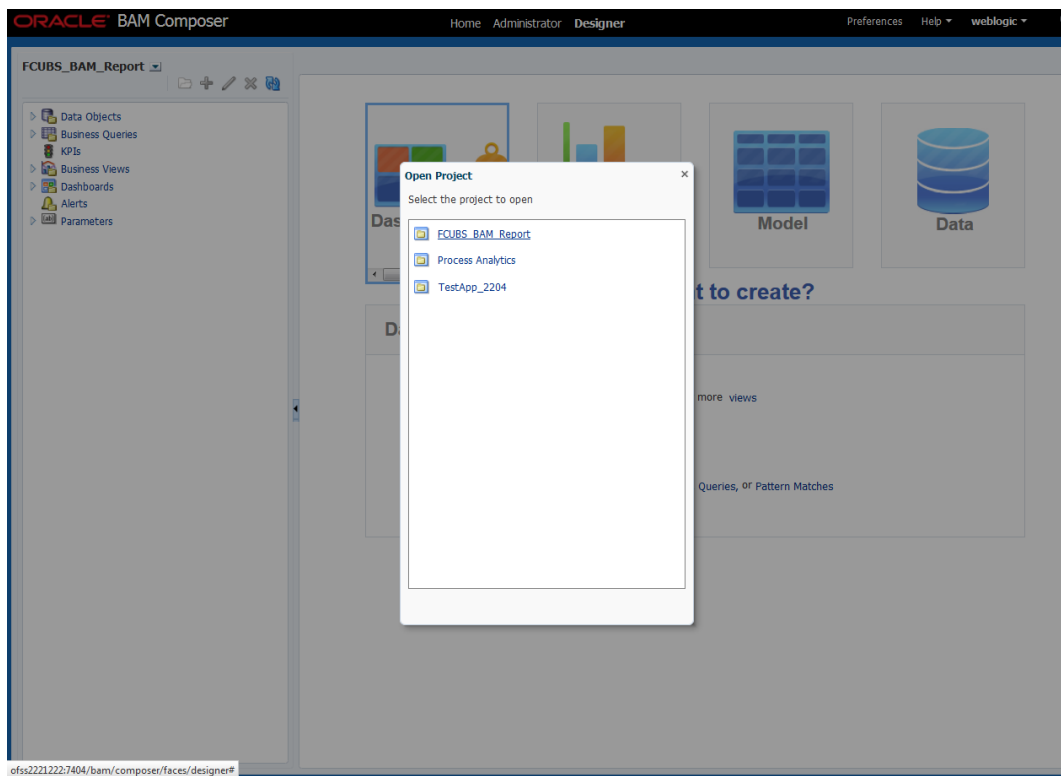


22. Follow the step 17 to 21 for other Data objects also.(cube\_instance,wftask\_different\_stages, ORVW\_TRACK\_EXPOSURE, ORVW\_FACILITY\_EXPOSURE, GetUtilsDB, SMTB\_USER\_TYPE\_CONVERSION\_VIEW, FCUBSDATAOBJECTS).

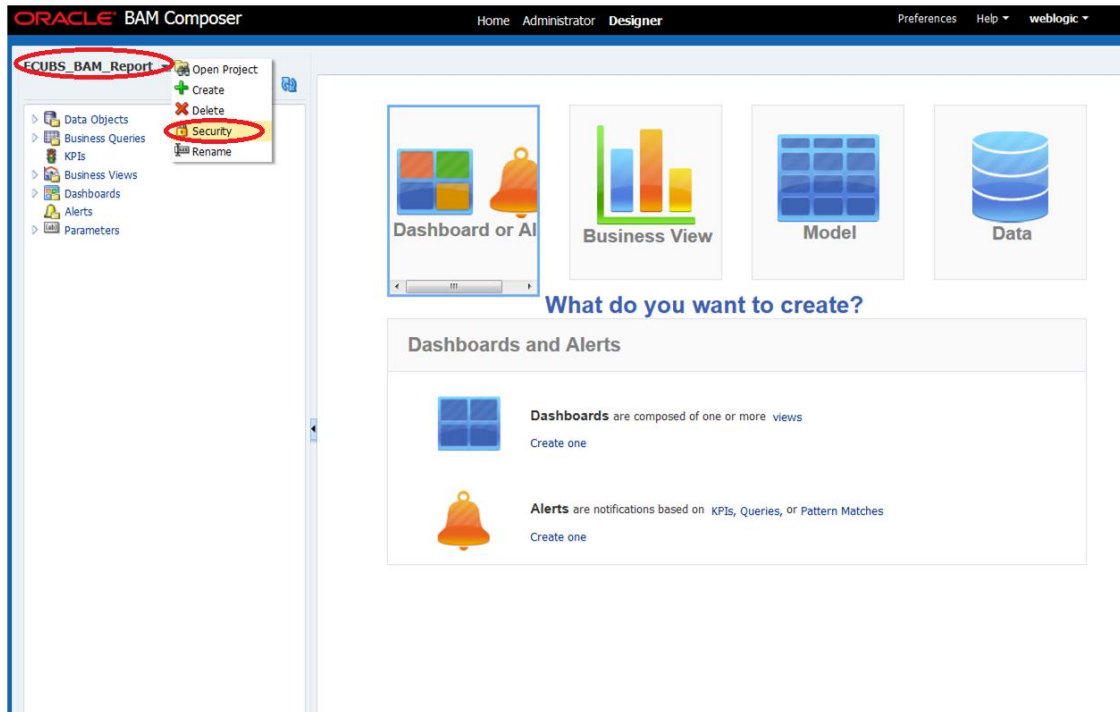
23. Click on Designer → open Project



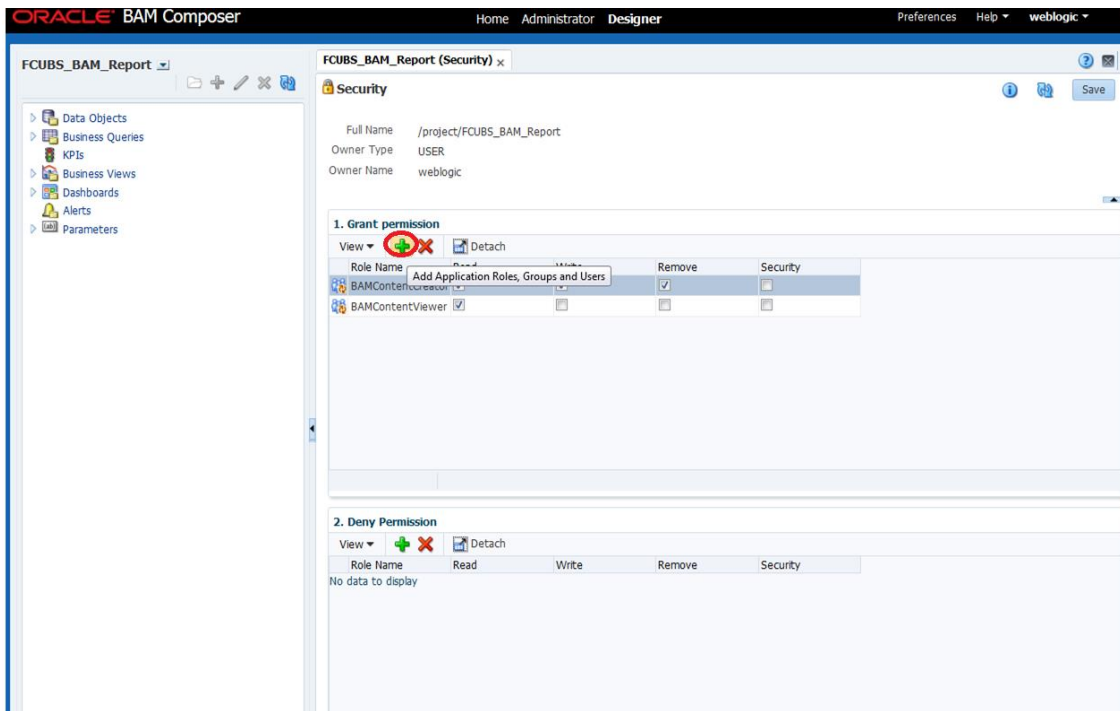
24. Click on FCUBS\_BAM\_report

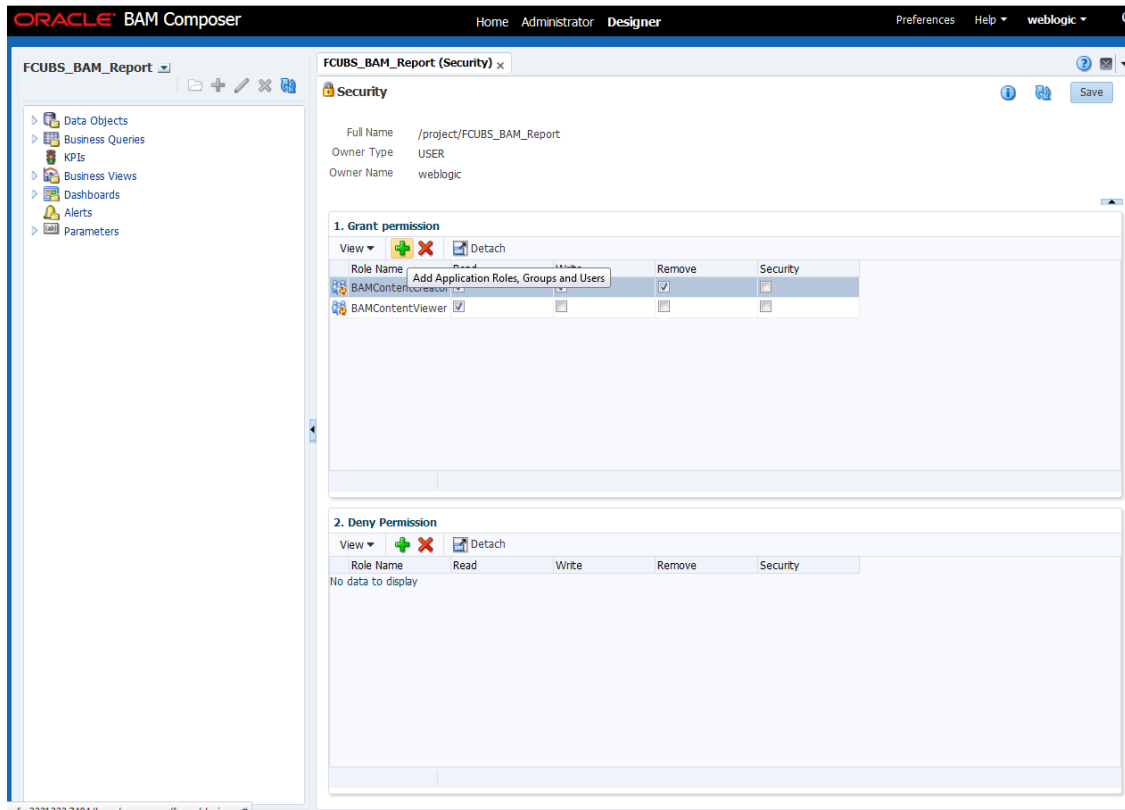


25. click on FCUBS\_BAM\_Report → Security

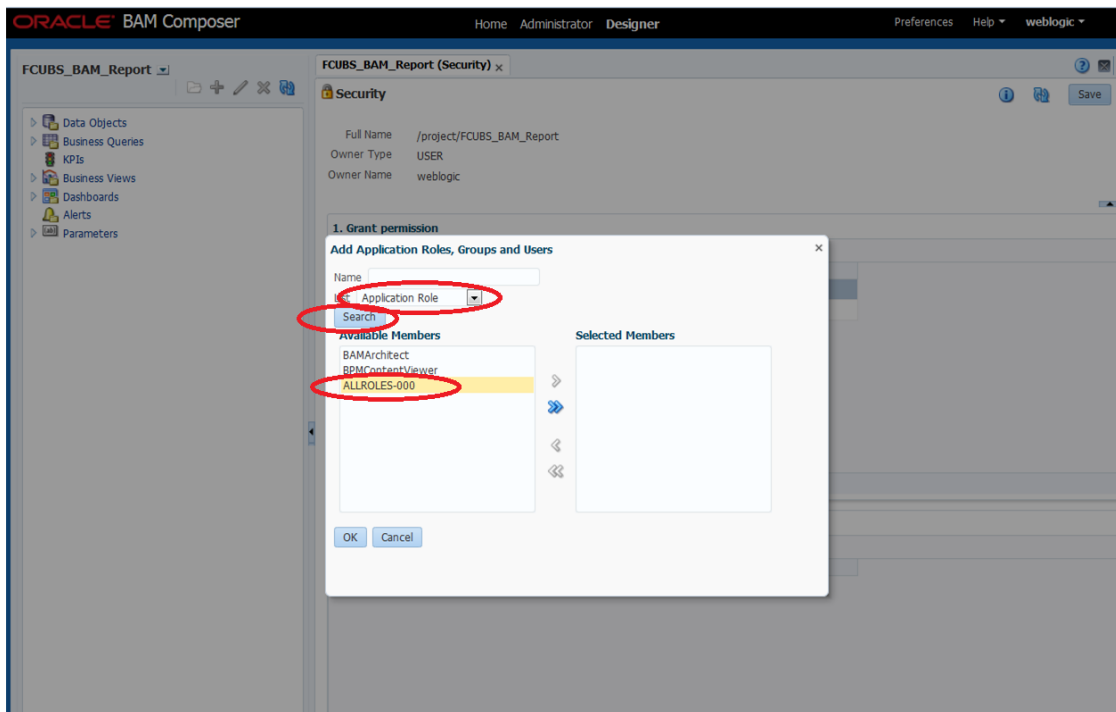


26. Click on ADD button Under Grant Permission.

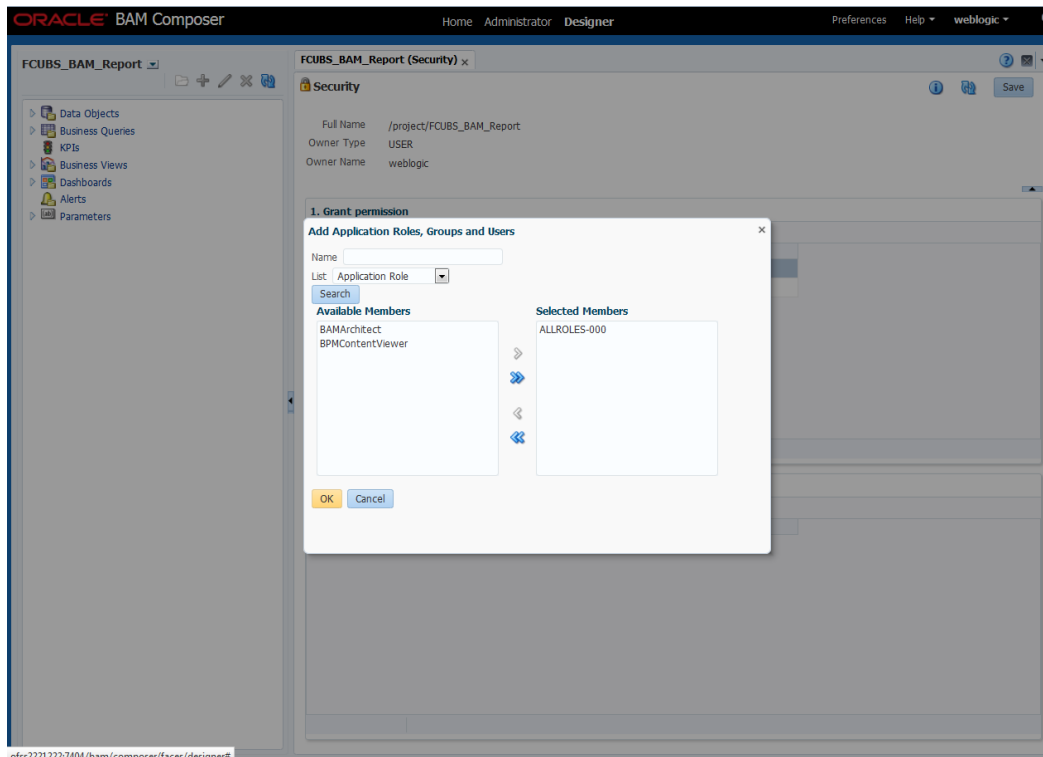




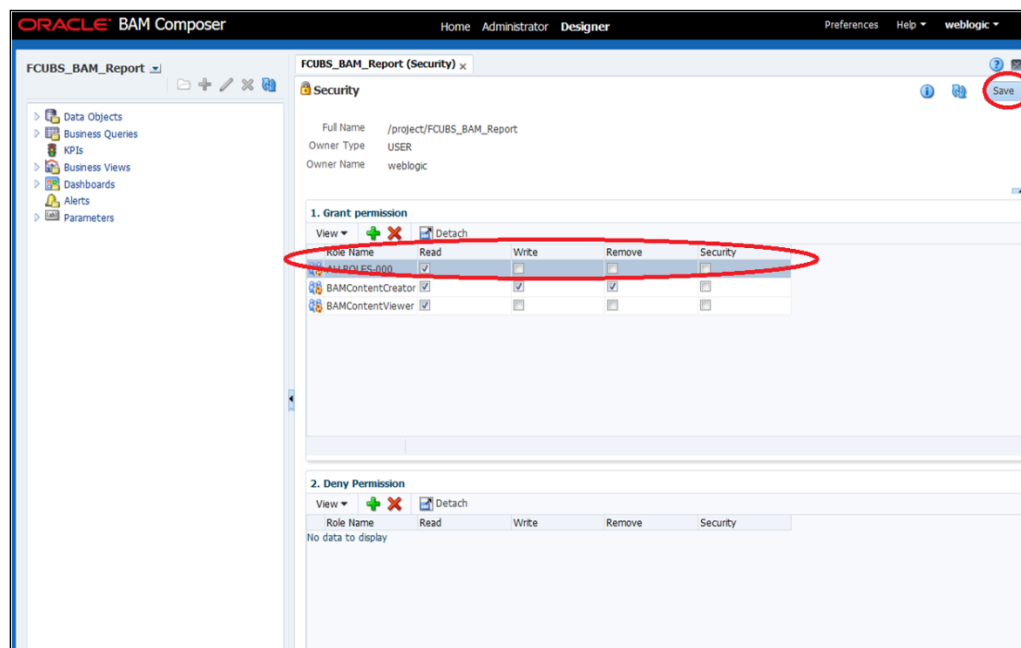
27. Search the List based on the Application Roles and Select the ALLROLES-000



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”.

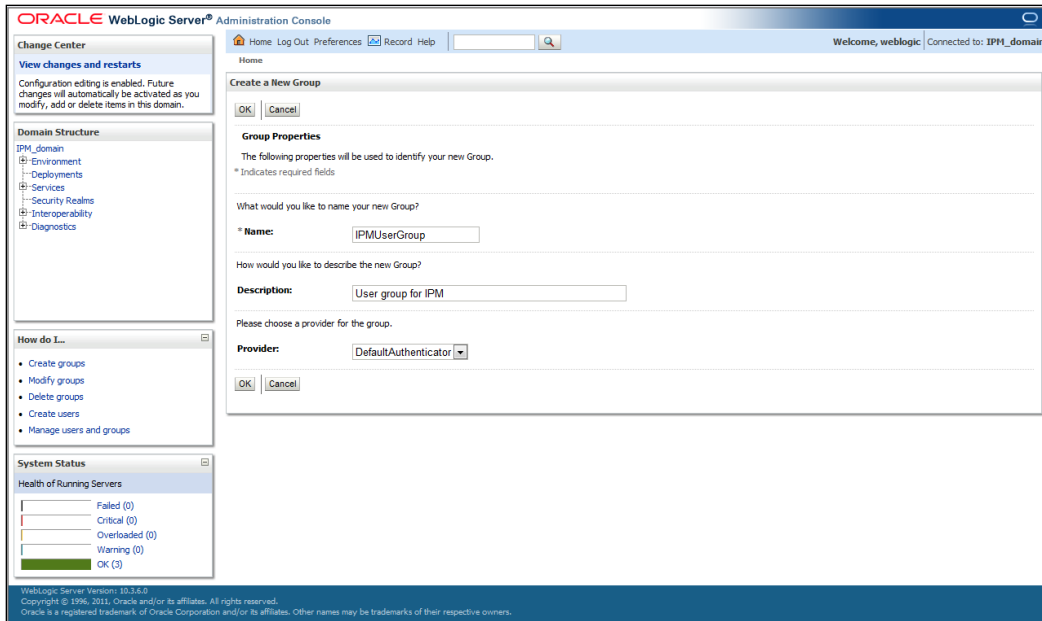
After adding, Navigate to security realms > myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.

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

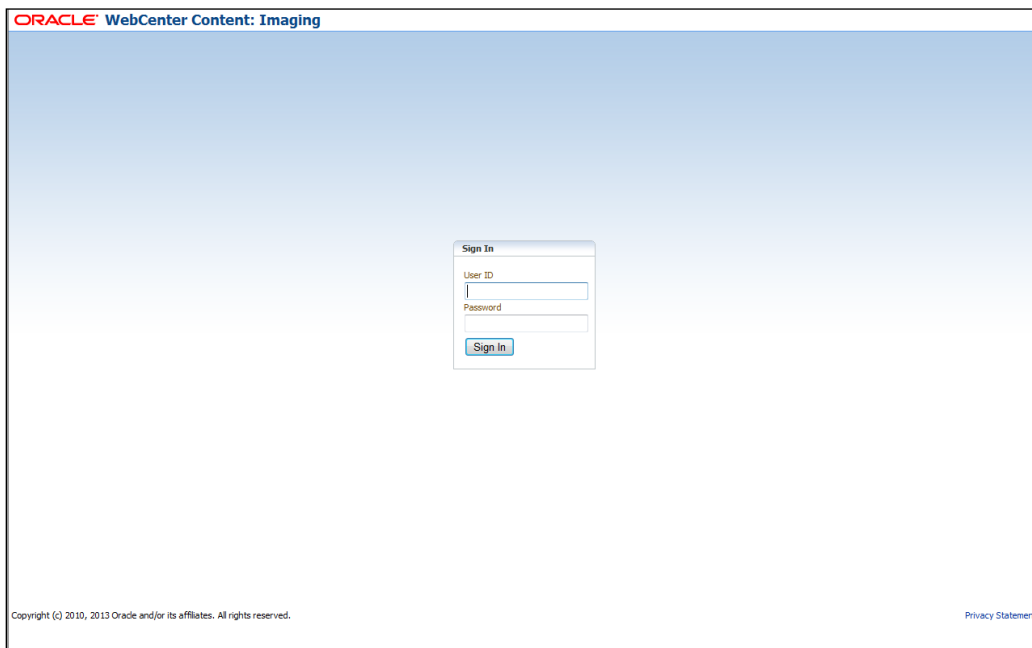
The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Domain Structure' tree with 'Security Realms' highlighted. The main area shows the 'Settings for myrealm' page with the 'Users and Groups' tab selected. The 'Groups' tab is active, displaying a table of configured groups. The table has columns for 'Name', 'Description', and 'Provider'. The 'New' button is highlighted in the top left of the table area.

| Name              | Description  | Provider             |
|-------------------|--|----------------------|
| AC-BATCH          | Accounting Batch Operations  | Foubs                |
| AC-REPORTS        | Accounting Reports   | Foubs                |
| AC-RPT            | Accounting Reports   | Foubs                |
| ADMIN             | Admin  | Foubs                |
| 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   | Foubs                |
| AE-MAINT-IN       | AEOD Maintenance   | Foubs                |
| AEOD-RPT          | AEOD Reports   | Foubs                |
| AEOD-STB          | Accounting Reports   | Foubs                |

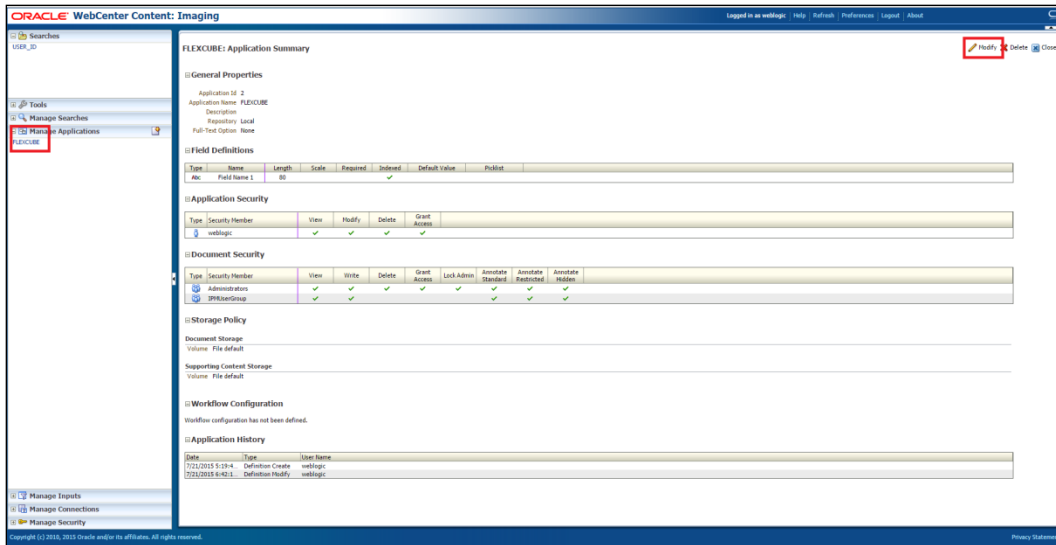
4. After Clicking on the new button,
  - Enter the name as “IPMUserGroup”
  - Description for it (optional)
  - And select the authenticator as “DefaultAuthenticator”
  - And then click “Ok”



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

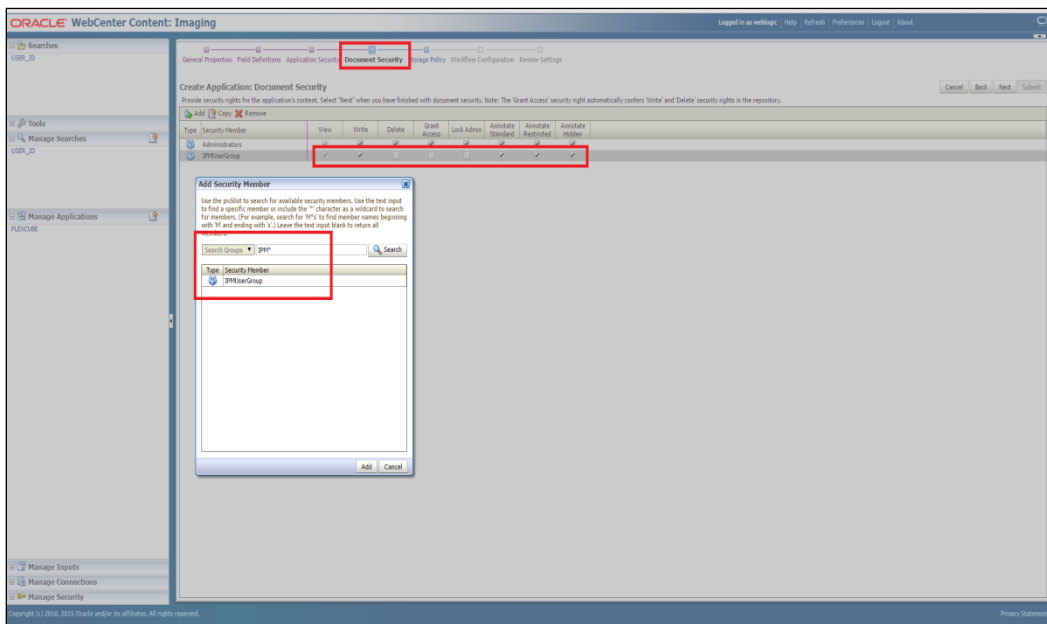


- Navigate to Manage Applications
- Click on the FLEXCUBE
- Then click on the modify on the right pane



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

**ORACLE WebCenter Content: Imaging**

Logged in as weblogic | Help | Refresh | Preferences | Logout | About

**Searches**  
USER\_ID

**Tools**  
Manage Searches  
USER\_ID

**USER\_ID: Search Summary** [Modify] [Delete] [Close]

**Properties**  
Search Name: USER\_ID  
Description:  
Instructions:  
Maximum Search Results: 0

**Results Formatting**

| Source Application | DOCID | Document Creation Date | Document Created By | Document Batch Id | Document Id |
|--------------------|-------|------------------------|---------------------|-------------------|-------------|
| FLEXCUBE           | DOCID | Document Creation Date | Document Created By | Document Batch Id | Document Id |

**Conditions**  
Application: FLEXCUBE

| Field            | Operator | Value                           | Conjunction |
|------------------|----------|---------------------------------|-------------|
| Document Created | Contains | Parameter - Document Created By |             |

**Parameters**

| Parameter Name   | Prompt Text      | Operator Text | Default Value | Picklist | Required | Read Only |
|------------------|------------------|---------------|---------------|----------|----------|-----------|
| Document Created | Document Created | Contains      |               |          |          |           |

**Security**

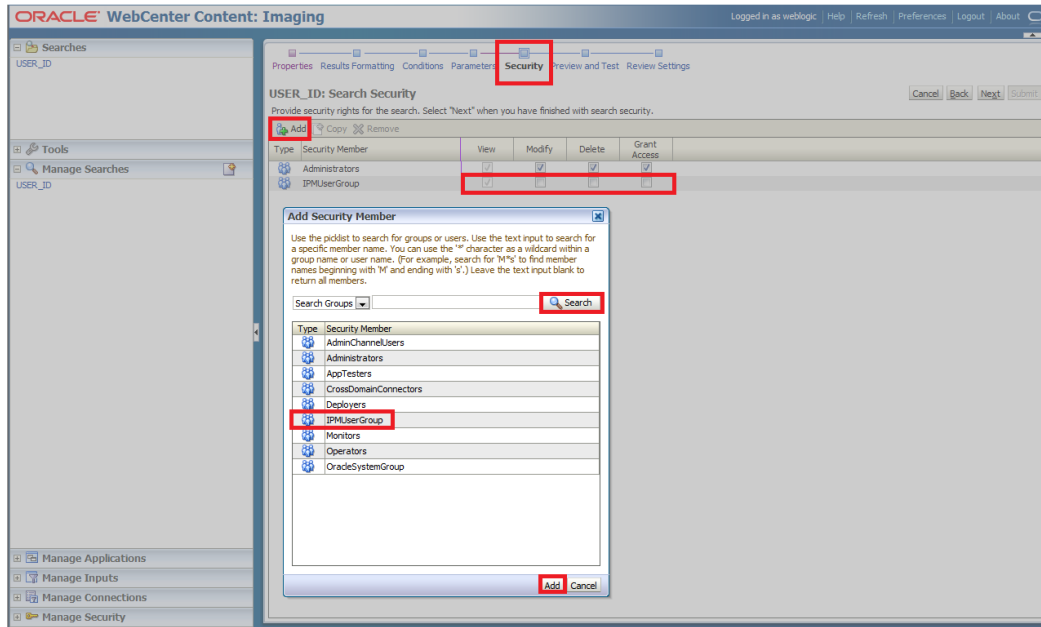
| Type           | Security Member | View | Modify | Delete | Grant Access |
|----------------|-----------------|------|--------|--------|--------------|
| Administrators |                 | ✓    | ✓      | ✓      | ✓            |
| IPMUserGroup   |                 | ✓    |        |        |              |

**Audit History**

| Date     | Type              | User Name |
|----------|-------------------|-----------|
| 7/2/2014 | Definition Create | ARU1      |
| 7/4/2014 | Definition Modify | weblogic  |
| 7/4/2014 | Definition Modify | weblogic  |
| 7/4/2014 | Definition Modify | weblogic  |
| 7/4/2014 | Definition Modify | weblogic  |
| 7/4/2014 | Definition Modify | weblogic  |
| 7/4/2014 | Definition Modify | weblogic  |

Manage Applications  
Manage Inputs  
Manage Connections  
Manage Security

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 FCJJSPProvider.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/fcdevDS"/>
  <property name="INTERNAL_CONTEXT_REQUIRED" value="true"/>
  <property name="INTERNAL_CONTEXT_NAME" value="internalstore"/>
</serviceInstance>
```



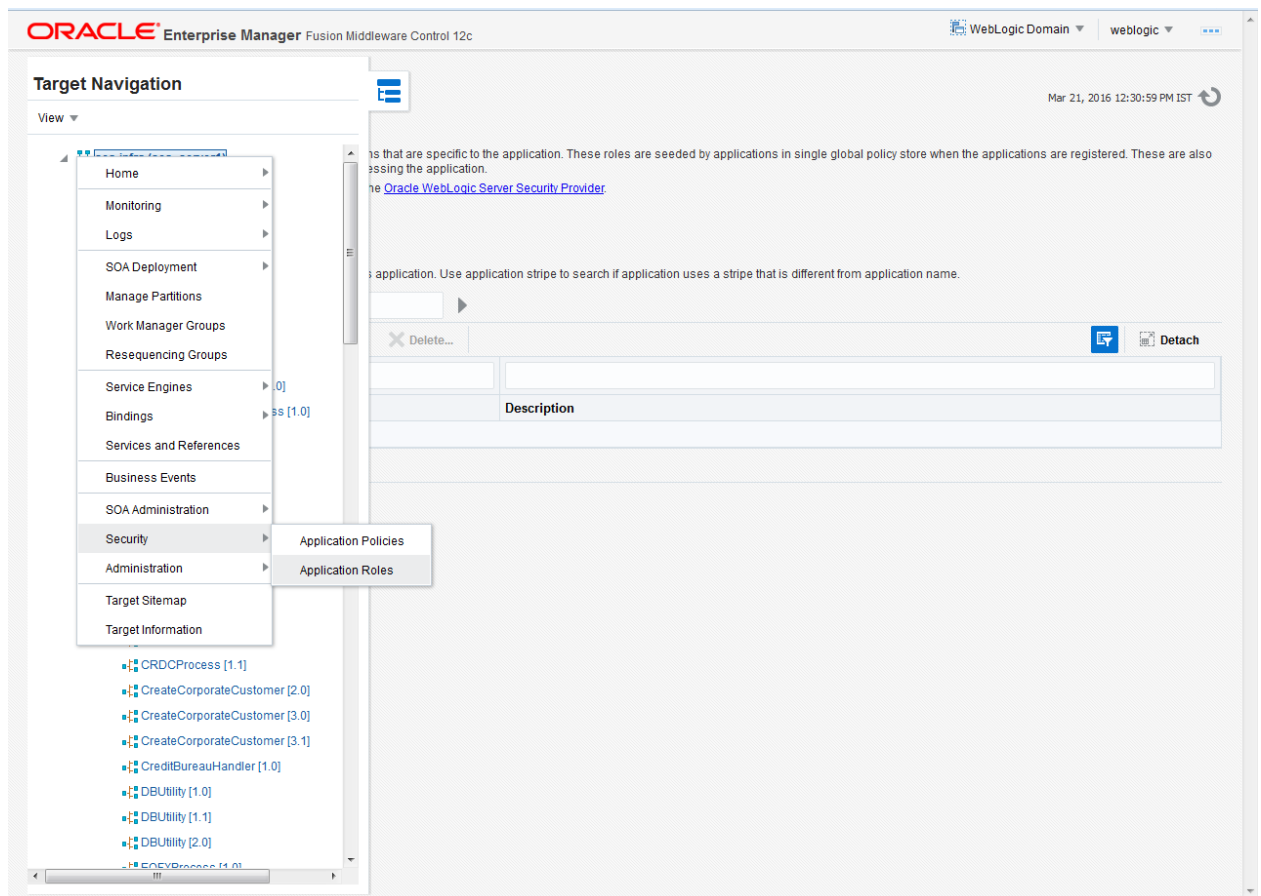
Make sure that the JNDI (jdbc/fcjddevDS) matches the value given during property file creation.

- 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



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

The screenshot shows the Oracle Enterprise Manager interface for Fusion Middleware Control 12c. The page title is "Application Roles". Below the title, there is a search bar with the text "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." The search bar has a dropdown menu set to "Starts With" and a search button. Below the search bar, there is a table of application roles. The table has three columns: "Role Name", "Display Name", and "Description". The "SOAAdmin" role is highlighted in blue. The URL at the bottom of the page is "10.184.133.168:7401/em/faces/as/security/appRolesMain?type=oracle\_soainfra&target=/Domain\_soa\_domain/soa\_domain/soa\_server1/soa-infra#".

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

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

The screenshot shows the Oracle Enterprise Manager interface for Fusion Middleware Control 12c. The page title is "Application Roles". Below the title, there is a search bar with the text "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." The search bar has a dropdown menu set to "Starts With" and a search button. Below the search bar, there is a table of application roles. The "SOAAdmin" role is highlighted in blue. The URL at the bottom of the page is "10.184.133.168:7401/em/faces/as/security/appRolesMain?type=oracle\_soainfra&target=/Domain\_soa\_domain/soa\_domain/soa\_server1/soa-infra#".

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

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

Oracle Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain weblogic

Mar 21, 2016 12:34:21 PM IST

### Edit Application Role : SOAAdmin

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

General

Application Stripe soa-infra

Role Name SOAAdmin

Display Name SOAAdmin

Description SOAAdmin

Members

An application role may need members.

View Add

Name Administrators

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

**Search**

Type Group

Principal Name Starts With

Display Name Starts With

Searched Principals

View Detach

| Principal           | Display Name | Description |
|---------------------|--------------|-------------|
| No search conducted |              |             |

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

OK Cancel

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

Oracle Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain weblogic

Mar 21, 2016 12:34:21 PM IST

### Edit Application Role : SOAAdmin

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

General

Application Stripe soa-infra

Role Name SOAAdmin

Display Name SOAAdmin

Description SOAAdmin

Members

An application role may need members.

View Add

Name Administrators

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

**Search**

Type Group

Principal Name Starts With ALLROLES-000

Display Name Starts With ALLROLES-000

Searched Principals

View Detach

| Principal    | Display Name | Description  |
|--------------|--------------|--------------|
| ALLROLES-000 | ALLROLES-000 | ALLROLES-000 |

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

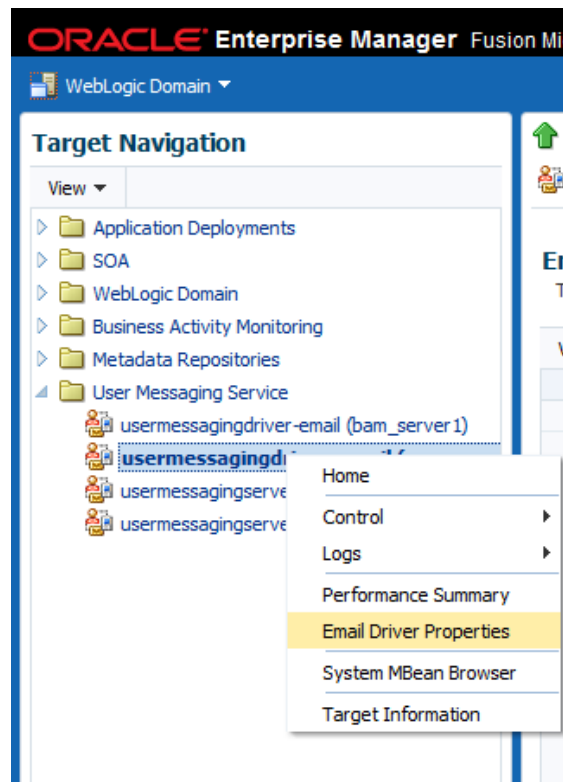
OK Cancel

6. Click Ok .

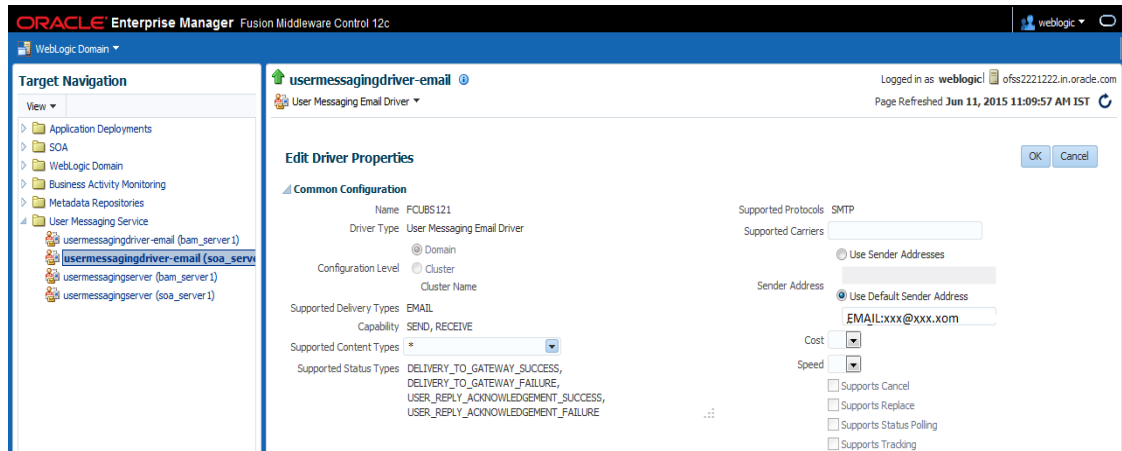
### 1.2.11 Email Driver Configuration

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

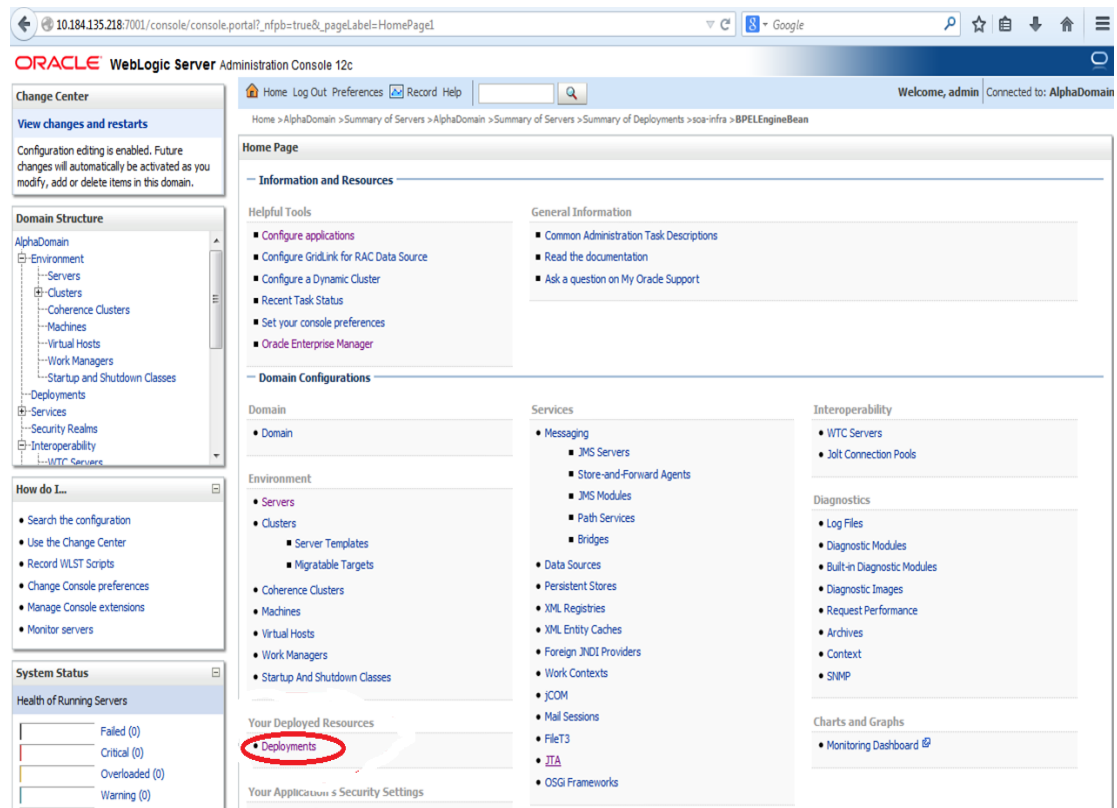
| Driver-Specific Configuration |  |           |                    |             |
|-------------------------------|--|-----------|--------------------|-------------|
| Name                          | Description  | Mandatory | Encoded Credential | Value       |
| Outgoing Mail Server          | The 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

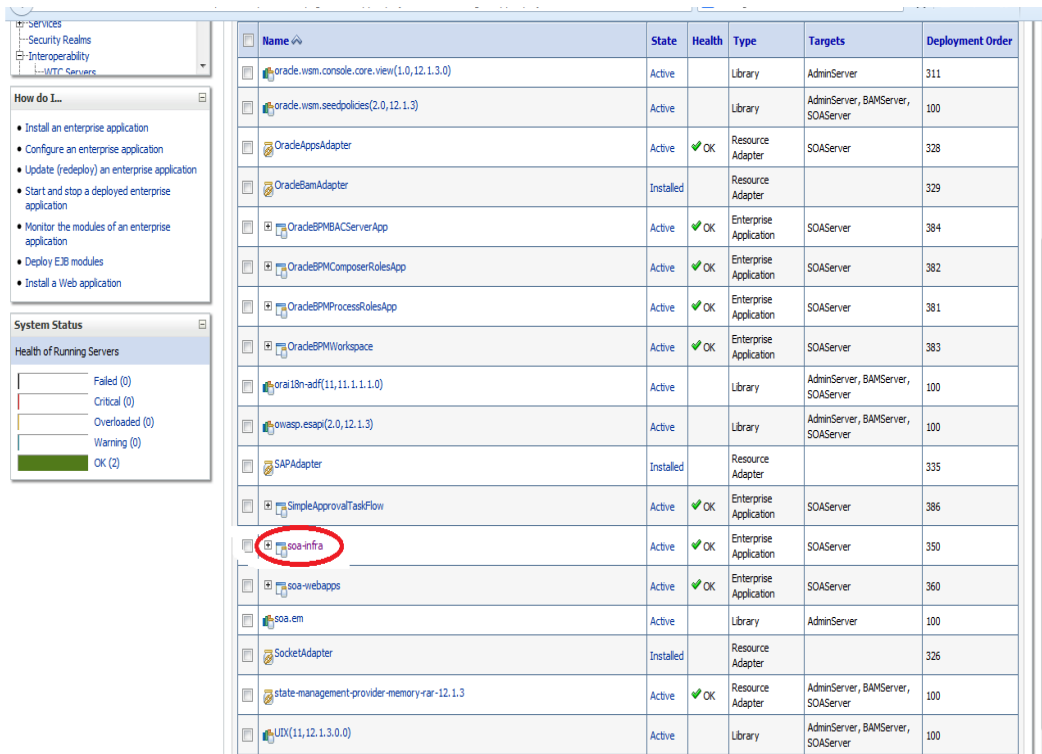
14. Select the notification mode as Email/ALL and enter the from address Actionable address and reply to Address.

## 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

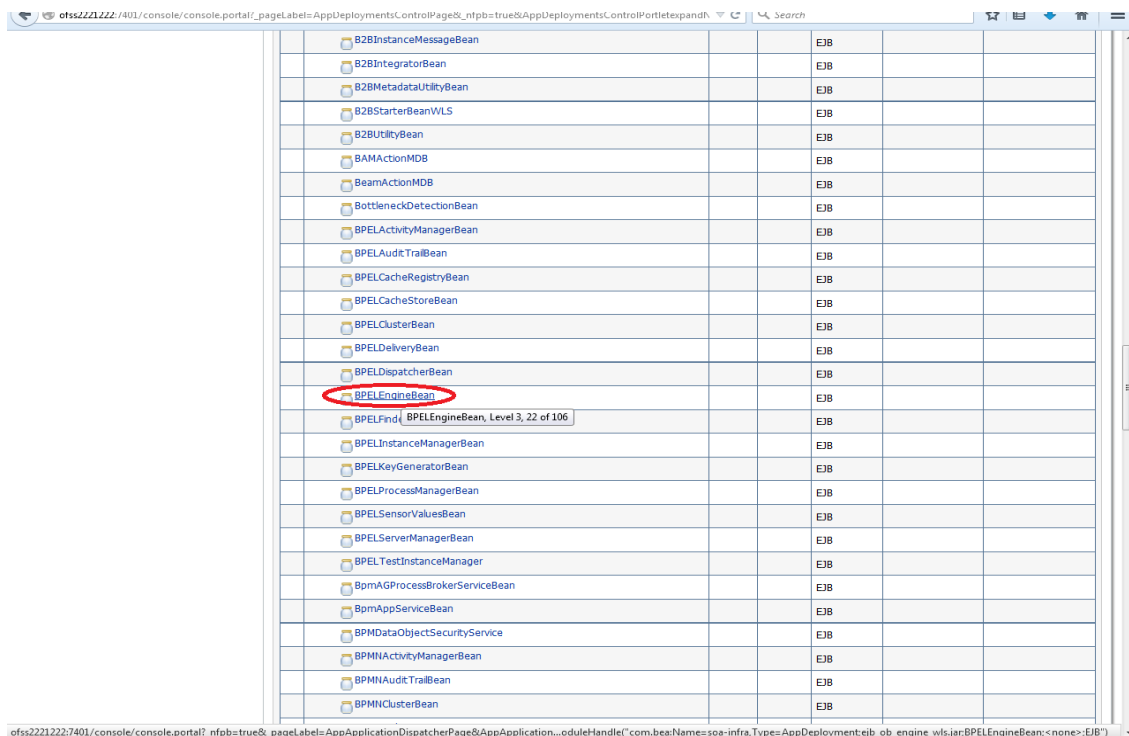


3. Click on "soa-infra" application under deployments.

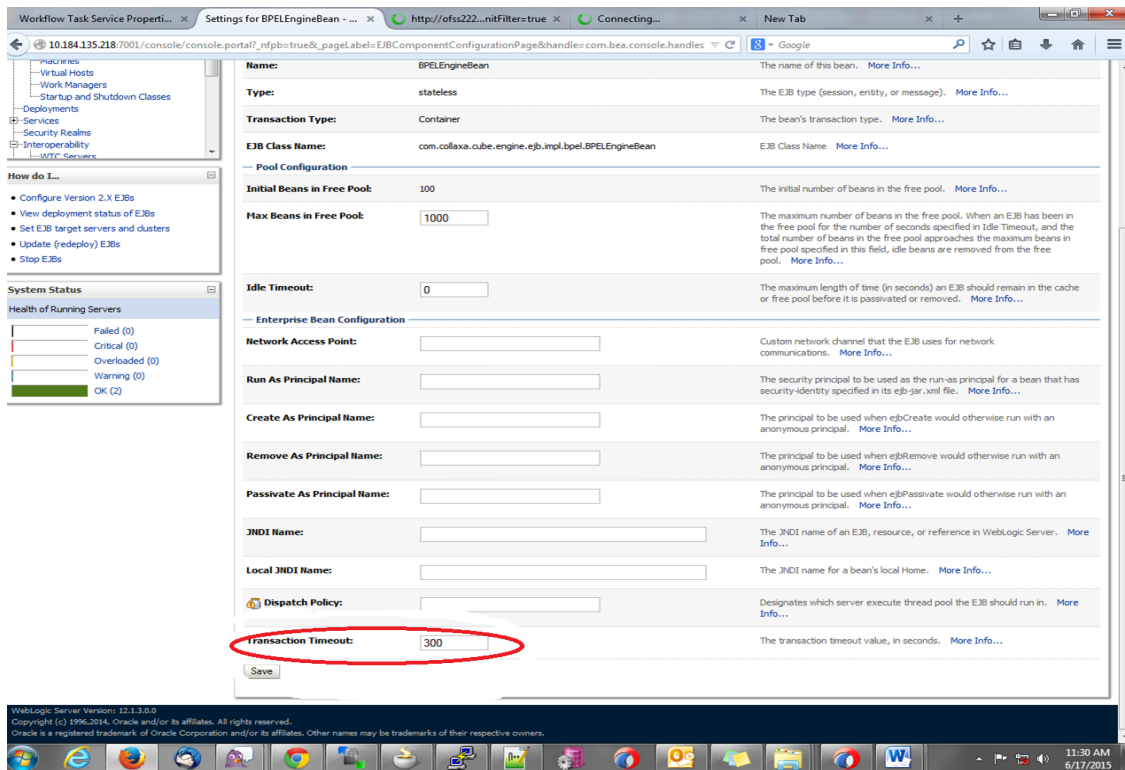


| Name  | State     | Health | Type                   | Targets                            | Deployment Order |
|---|-----------|--------|------------------------|------------------------------------|------------------|
| oracle.wsm.console.core.view(1.0,12.1.3.0)  | Active    |        | Library                | AdminServer                        | 311              |
| oracle.wsm.seedpolicies(2.0,12.1.3)         | Active    |        | Library                | AdminServer, BAMServer, SOA Server | 100              |
| OracleAppsAdapter                           | Active    | OK     | Resource Adapter       | SOA Server                         | 328              |
| OracleBamAdapter                            | Installed |        | Resource Adapter       |                                    | 329              |
| OracleBPMACServerApp                        | Active    | OK     | Enterprise Application | SOA Server                         | 384              |
| OracleBPMComposerRolesApp                   | Active    | OK     | Enterprise Application | SOA Server                         | 382              |
| OracleBPMProcessRolesApp                    | Active    | OK     | Enterprise Application | SOA Server                         | 381              |
| OracleBPMWorkspace                          | Active    | OK     | Enterprise Application | SOA Server                         | 383              |
| oral18n-adt(11.1.1.1.1.0)                   | Active    |        | Library                | AdminServer, BAMServer, SOA Server | 100              |
| owasp.esapi(2.0,12.1.3)                     | Active    |        | Library                | AdminServer, BAMServer, SOA Server | 100              |
| SAPAdapter                                  | Installed |        | Resource Adapter       |                                    | 335              |
| SimpleApprovalTaskFlow                      | Active    | OK     | Enterprise Application | SOA Server                         | 386              |
| <b>soa-infra</b>                            | Active    | OK     | Enterprise Application | SOA Server                         | 350              |
| soa-websapps                                | Active    | OK     | Enterprise Application | SOA Server                         | 360              |
| soa-em                                      | Active    |        | Library                | AdminServer                        | 100              |
| SocketAdapter                               | Installed |        | Resource Adapter       |                                    | 326              |
| state-management-provider-memory-rar-12.1.3 | Active    | OK     | Resource Adapter       | AdminServer, BAMServer, SOA Server | 100              |
| UIX(11,12.1.3.0.0)                          | Active    |        | Library                | AdminServer, BAMServer, SOA Server | 100              |

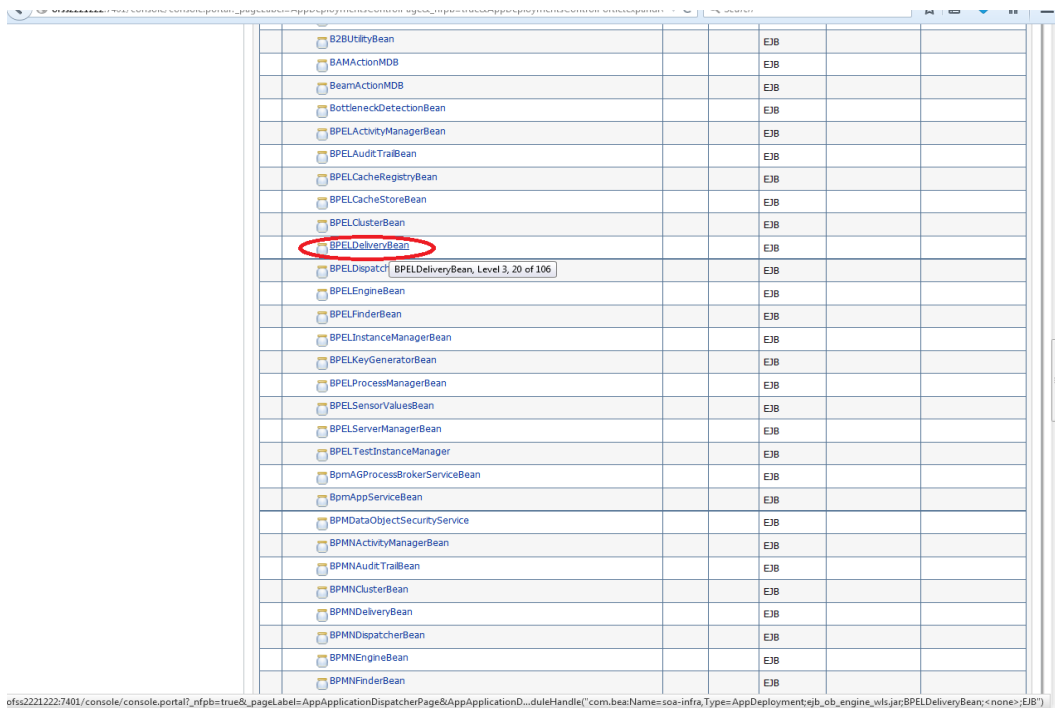
4. Go to EJBs, click on BPELEngineBean→Configuration→set Transaction Timeout to 300.



| Name   | Type |
|--|------|
| 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 shows the WebLogic Server console interface. On the left, there are panels for 'How do I...' (with links like 'Configure Version 2.X EJBs', 'View deployment status of EJBs', 'Set EJB target servers and clusters', 'Update (redeploy) EJBs', 'Stop EJBs') and 'System Status' (showing 'Health of Running Servers' with counts for Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (4)). The main area displays the configuration for the 'BPELDeliveryBean'. The 'Type' is 'stateless' and the 'Transaction Type' is 'Container'. The 'EJB Class Name' is 'com.collaxa.cube.engine.ejb.impl.bpel.BPELDeliveryBean'. Under 'Pool Configuration', 'Initial Beans in Free Pool' is 200 and 'Max Beans in Free Pool' is 1000. Under 'Enterprise Bean Configuration', 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' are present. The 'Dispatch Policy' is set to 'Default'. The 'Transaction Timeout' is set to 1800 seconds, which is circled in red. A 'Save' button is at the bottom.

|                                      |  |  |
|--------------------------------------|--|--|
| Type:                                | stateless  | The EJB type (session, entity, or message). <a href="#">More Info...</a>   |
| Transaction Type:                    | Container  | The bean's transaction type. <a href="#">More Info...</a>  |
| EJB Class Name:                      | com.collaxa.cube.engine.ejb.impl.bpel.BPELDeliveryBean | EJB Class Name <a href="#">More Info...</a>  |
| <b>Pool Configuration</b>            |  |  |
| Initial Beans in Free Pool:          | 200  | The initial number of beans in the free pool. <a href="#">More Info...</a>   |
| Max Beans in Free Pool:              | 1000   | The maximum number of beans in the free pool. When an EJB has been in the free pool for the number of seconds specified in Idle Timeout, and the total number of beans in the free pool approaches the maximum beans in free pool specified in this field, idle beans are removed from the free pool. <a href="#">More Info...</a> |
| Idle Timeout:                        | 0  | The maximum length of time (in seconds) an EJB should remain in the cache or free pool before it is passivated or removed. <a href="#">More Info...</a>  |
| <b>Enterprise Bean Configuration</b> |  |  |
| Network Access Point:                |  | Custom network channel that the EJB uses for network communications. <a href="#">More Info...</a>  |
| Run As Principal Name:               |  | The security principal to be used as the run-as principal for a bean that has security-identity specified in its ejb-jar.xml file. <a href="#">More Info...</a>  |
| Create As Principal Name:            |  | The principal to be used when ejbCreate would otherwise run with an anonymous principal. <a href="#">More Info...</a>  |
| Remove As Principal Name:            |  | The principal to be used when ejbRemove would otherwise run with an anonymous principal. <a href="#">More Info...</a>  |
| Passivate As Principal Name:         |  | The principal to be used when ejbPassivate would otherwise run with an anonymous principal. <a href="#">More Info...</a>   |
| JNDI Name:                           |  | The JNDI name of an EJB, resource, or reference in WebLogic Server. <a href="#">More Info...</a>   |
| Local JNDI Name:                     |  | The JNDI name for a bean's local Home. <a href="#">More Info...</a>  |
| Dispatch Policy:                     |  | Designates which server execute thread pool the EJB should run in. <a href="#">More Info...</a>  |
| Transaction Timeout:                 | 1800   | The transaction timeout value, in seconds. <a href="#">More Info...</a>  |

Save

WebLogic Server Version: 12.1.3.0.0

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 shows the Oracle WebLogic Server Administration Console 12c. The left sidebar contains navigation links: Change Center, View changes and restarts, Domain Structure (dev\_domain, Environment, Deployments, Services, Security Realms, Interoperability, Diagnostics), How do I... (Configure domain JTA options, Configure advanced domain JTA options), and System Status (Health of Running Servers). The main content area is titled 'Settings for dev\_domain' and has tabs for Configuration, Monitoring, Control, Security, Web Service Security, and Notes. Under the Configuration tab, there are sub-tabs: General, JTA, JPA, EJBs, Web Applications, Logging, and Log Filters. The JTA tab is selected. A 'Save' button is at the top left of the configuration area. Below it, a message states: 'Use this page to define the Java Transaction API (JTA) configuration of this WebLogic Server domain.' The configuration table includes:
 

- Timeout Seconds:** 3600 (highlighted with a red circle). Description: Specifies the maximum amount of time, in seconds, an active transaction is allowed to be in the first phase of a two-phase commit transaction. If the specified amount of time expires, the transaction is automatically rolled back. [More Info...](#)
- Abandon Timeout Seconds:** 86400. Description: Specifies the maximum amount of time, in seconds, a transaction manager persists in attempting to complete the second phase of a two-phase commit transaction. [More Info...](#)
- Before Completion Iteration Limit:** 10. Description: The maximum number of cycles that the transaction manager performs the beforeCompletion synchronization callback for this WebLogic Server domain. [More Info...](#)
- Max Transactions:** 10000. Description: The maximum number of simultaneous in-progress transactions allowed on a server in this WebLogic Server domain. [More Info...](#)
- Max Unique Name Statistics:** 1000. Description: The maximum number of unique transaction names for which statistics are maintained. [More Info...](#)
- Checkpoint Interval Seconds:** 300. Description: The interval at which the transaction manager creates a new transaction log file and checks all old transaction log files to see if they are ready to be deleted. [More Info...](#)
- ☐ **Write recovery logs when determiners configured**. Description: Indicates two-phase transaction recovery logs are written even if one or more determiners are configured. [More Info...](#)
- Determiners:** (Empty text area). Description: Specifies a list of one or more transaction resources (determiners) separated by line breaks. A determiner's in-doubt transaction records are used during transaction recovery when a TLog is not present. [More Info...](#)
- ☒ **Forget Heuristics**. Description: Specifies whether the transaction manager automatically performs an XA Resource forget operation for heuristic transaction completions. [More Info...](#)

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

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

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

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

WebLogic Domain

**Target Navigation**

View

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

soa-infra

Logged in as admin | ofss220692.in.oracle.com

Page Refreshed Jun 17, 2015 11:36:01 AM IST

**Dashboard** Deployed Composites Flow Instances Error Hospital

**Key Configuration**

Profile: **BPM BASIC**

Instance Tracking: **Production**

Default Query Duration: **Last 24 Hours**

Auto Purge: **Enabled**

**Business Transaction Faults**

Last\* 24 Hours

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

**Composites and Adapters Availability**

SOAServer

**SOA Runtime Health**

soa-infra (SOAServer)

Initialized Successfully

System Backlogs

Last\* 24 Hours

Refresh region to show the latest data.

Messages in Queues:

BPEL Invoke --

BPEL Callback --

Mediator Parallel Routing --

Recent In

With Fa

All

Composite

Sensor Name

11:36 AM 6/17/2015

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

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

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

WebLogic Domain

**Change Center**

Changes Recording

**Target Navigation**

View

- Application Deployments
- SOA
  - soa-infra (SOA Server)
    - default
      - AmendFCUBSORRetailLoanContract [1.0]
      - AmendFCUBSORRetailLoanContract [1.0]
      - AmendRetailLoanContractFCUBSORService [1.0]
      - BIPUtility [1.0]
      - BPELCollatProcess [1.0]
      - BPELCPRClosureProcess [1.0]
      - BPELCPProcess [1.0]
      - bpelevnprocess [1.0]
      - BPELLimitReview [1.0]
      - CIBLProcess [1.0]
      - CloseFCUBSORRetailLoanContract [1.0]
      - CloseRetailLoanContractFCUBSORService [1.0]
      - COLLATProcess [1.0]
      - CRDProcess [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]
      - DisburseFCUBSORRetailLoanPayment [1.0]
      - EQFXProcess [1.0]
      - EXPProcess [1.0]
      - ExternalValuation [2.0]
      - InitiateFCUBSORRetailLoanPayment [1.0]
      - InitiateKYCheckFCUBSORService [1.0]
      - InitiateRetailLoanContractFCUBSORService [1.0]
      - InitiateRetailLoanPaymentFCUBSORService [1.0]
      - InitiateRiskEvaluationFCUBSORService [1.0]
      - KYCCheck [2.0]
      - KYCCorporateReview [2.0]

**soa-infra**

SOA Infrastructure

Logged in as admin | ofss220692.in.oracle.com

Page Refreshed Jun 17, 2015 11:37:36 AM IST

**System MBean Browser**

Application Defined MBeans: BPELConfig:bpel

Apply Revert

**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 MaximumNumberOfInvokeMessages        | a separate location from the rest of the instance scope data 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.nar |
| 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 QualityOfServiceOneWayDeliveryPol    | 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                          |

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## 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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