

Setting up Plug-Ins
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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.

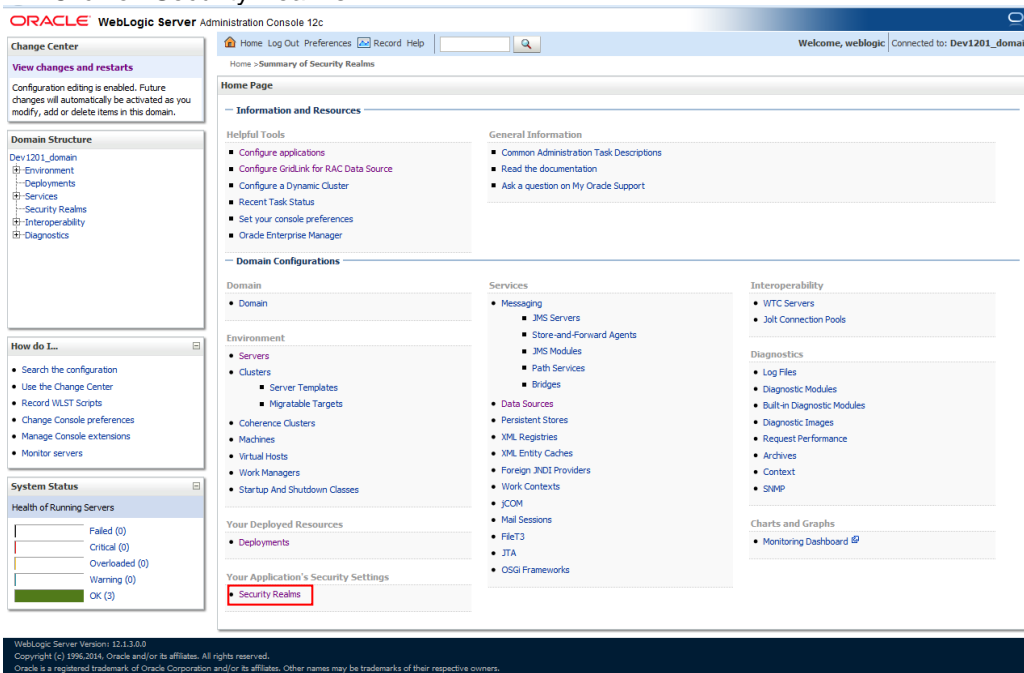
1.2 Integrating Oracle FLEXCUBE UBS and BPEL

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 > Summary of Security Realms

Summary of Security Realms

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

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

Customize this table

Realms (Filtered - More Columns Exist)

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

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

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Security Realms > myrealm > Providers

Providers

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

Customize this table

Authentication Providers

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

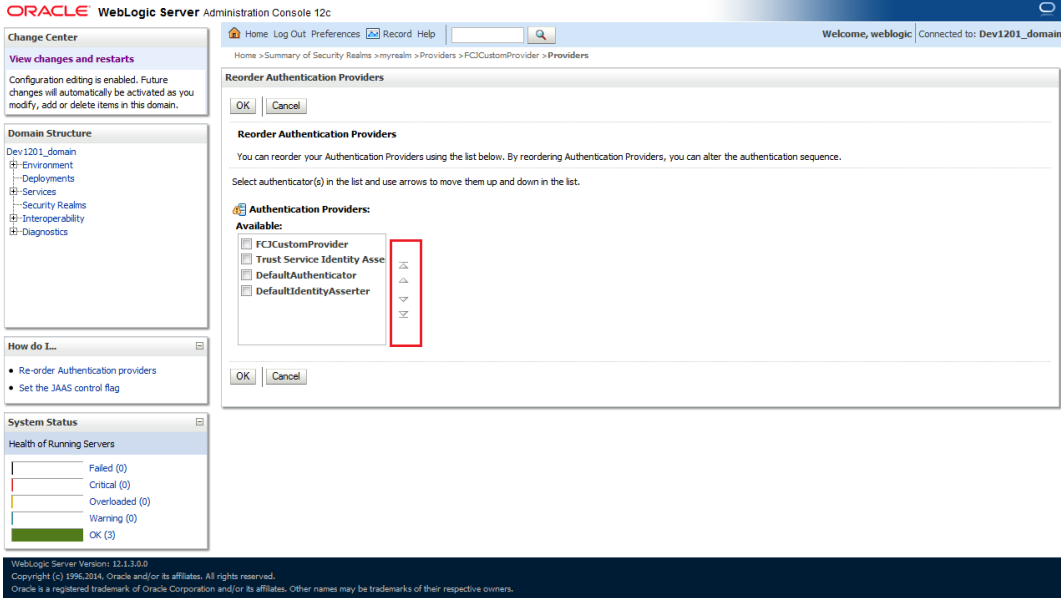
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7. Give Provider name as FCJCustomProvider and type as FCUBSUserAuthenticator.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there are panels for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main area displays the 'Create a New Authentication Provider' dialog box. The dialog has a title bar with 'OK' and 'Cancel' buttons. Below the title bar, it says 'Create a new Authentication Provider' and 'The following properties will be used to identify your new Authentication Provider.' There is a note: '* Indicates required fields'. The 'Name' field is labeled '* Name:' and contains the text 'FCJCustomProvider'. Below this, it says 'This is the type of authentication provider you wish to create.' The 'Type' dropdown menu is labeled 'Type:' and is set to 'FCUBSUserAuthenticator'. At the bottom of the dialog, there are 'OK' and 'Cancel' buttons.

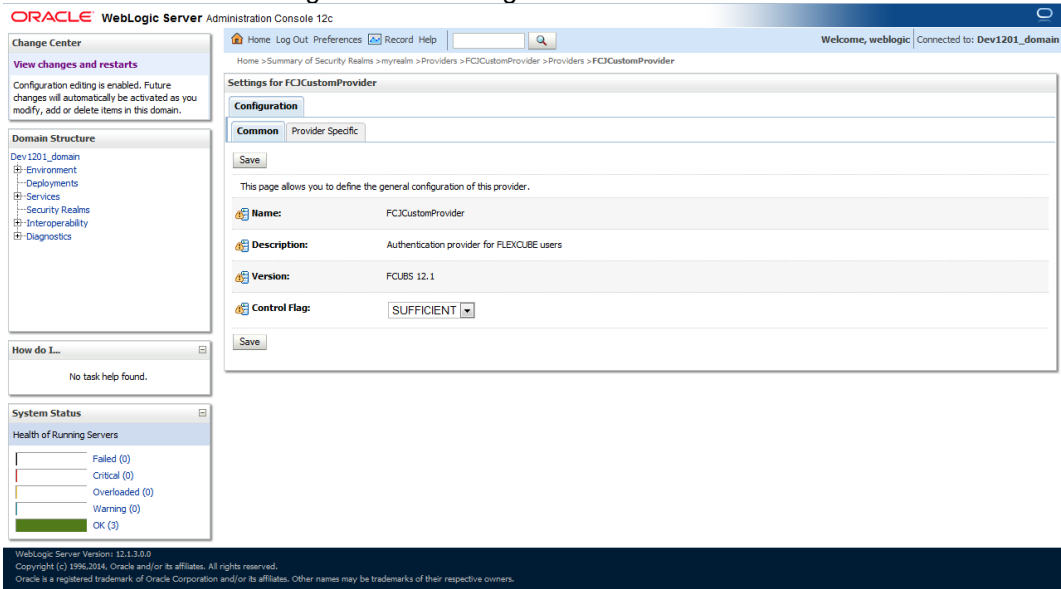
8. Click Reorder to bring the newly created provider to first of all providers and click OK.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there are panels for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main area displays the 'Settings for myrealm' page, specifically the 'Providers' tab. Below the navigation tabs, there is a table titled 'Authentication Providers'. The table has columns for 'Name', 'Description', and 'Version'. The first row is 'FCJCustomProvider' with description 'Authentication provider for FLEXCLUBE users' and version 'FCUBS 12.1'. The second row is 'Trust Service Identity Asserter' with description 'Trust Service Identity Asserter Provider' and version '1.0'. The third row is 'DefaultAuthenticator' with description 'WebLogic Authentication Provider' and version '1.0'. The fourth row is 'DefaultIdentityAsserter' with description 'WebLogic Identity Asserter provider' and version '1.0'. Above the table, there are buttons for 'New', 'Delete', and 'Reorder'. The 'Reorder' button is circled in red. Below the table, there are 'New', 'Delete', and 'Reorder' buttons again. The page also shows 'Messages' and 'Settings for myrealm' navigation options.



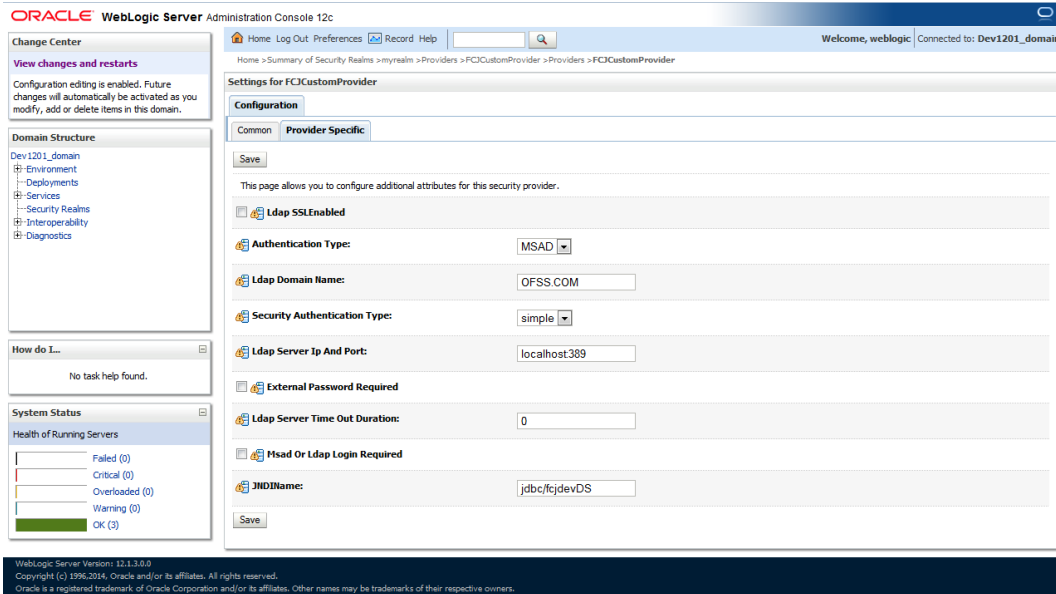
9. Click on FCJCustomProvider.

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



11. In Provider Specific tab

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



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

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

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

1.2.2 Configuring libovd for single Entity

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

1. Along with the Oracle FLEXCUBE UBS EAR file, the Installer creates 'FCJJSPProvider.jar' file inside the BPELbuild folder under SOURCE directory.
2. On the application server host, create a folder by name 'classes' at the location '<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x'.
3. Extract the file 'FCJJSPProvider.jar' and from the extracted content, copy the folder 'com' to: '<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes'.

4. Navigate to the location
'<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes\com\ofss\fcc\bpel\cac'. Edit the properties file 'CISProperties.properties' and update 'JNDI.name' with the JNDI name same as Entity Name given in Multi Entity Names screen while creating property file 'fcubs.properties', e.g. 'jdbc/fcjdevDS'.
5. Copy 'FCJJSPProvider.jar' to
'<MIDDLEWARE_HOME>/user_projects/domains/<domain_name>/config/fmwconfig/ovd/plugins/lib'. Create the directory structure if it does not exist.
6. Copy the fcubs_adapter.xml from this word doc to
'<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/



fcubs_adapter.xml

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

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

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

1.2.3 **Configuring libovd for MultiEntity**

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



fcubs_adapter_<EntityId>.xml

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

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

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

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

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

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

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

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

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

EX : ou= EntityId

9. Execute "libovdadapterconfig" script which is present in '<MIDDLEWARE_HOME>/oracle_common/bin' with below parameters. Update the admin server host name or ip ,admin server port ,weblogic user id, domain home ,root and fcubs datasource

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

10. Repeat from step2 to step7 for each entity creation

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

Note:- for any misconfiguration in libovd

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

For deleting fcubsAdapter use the below command:

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

MW_HOME/oracle_common/common/bin/wlst.sh

(UNIX)MW_HOME\oracle_common\common\bin\wlst.cmd (Windows)

Connect to your Administration Server using the following syntax:

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

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

Delete the misconfigured adapter using the following syntax:

deleteAdapter(adapterName='fcubsAdapter')

Note the following:

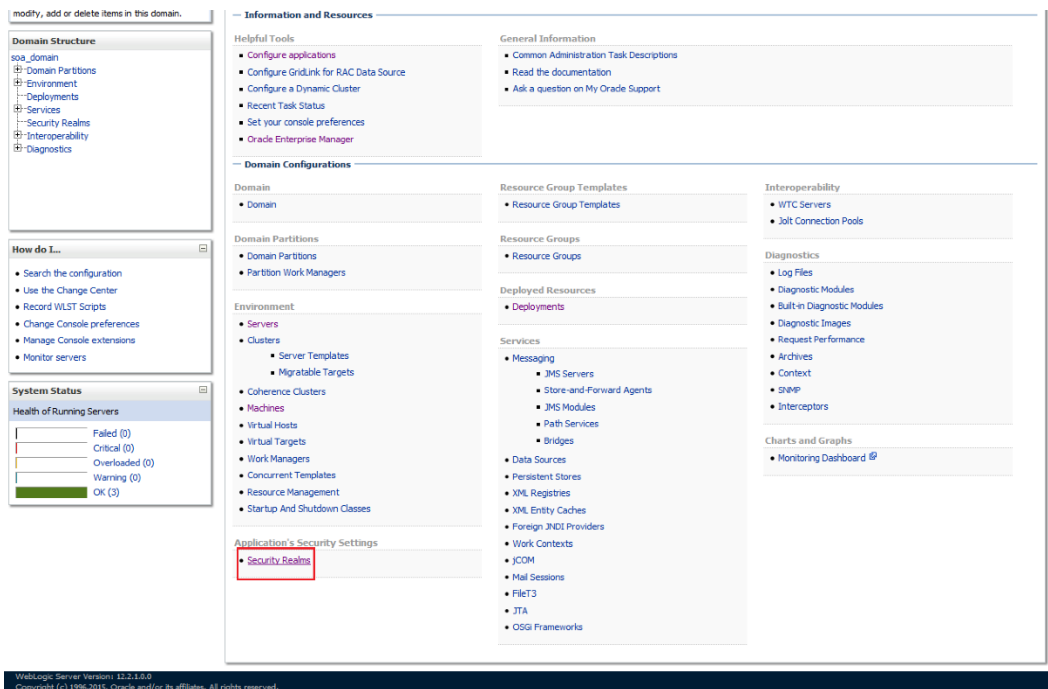
- In case of Multi Entity, all data sources must be created separately for each entity. The JNDI name will be differentiated by suffixing entity name.

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

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

1.2.4 Configuring for Multiple Providers for Multiple Entities

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



3. Click on myrealms.

ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic | Connected to: soa_doma

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

Summary of Security Realms

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

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

Customize this table

Realms (Filtered - More Columns Exist)

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

Showing 1 to 1 of 1 Previous | Next

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4. Click on Providers.

ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic | Connected to: soa_doma

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

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

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5. Click on New

ORACLE WebLogic Server Administration Console 12c

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

| 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 |

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6. 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

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

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, weblogic Connected to: soa_domain

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

Reorder Authentication Providers

OK Cancel

Reorder Authentication Providers

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

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

Authentication Providers:

Available:

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

OK Cancel

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

Home Log Out Preferences Record Help Welcome, weblogic Connected to: soa_domain

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

Settings for myrealm

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

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

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

Customize this table

Authentication Providers

New Delete Reorder Showing 1 to 5 of 5 Previous Next

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

New Delete Reorder Showing 1 to 5 of 5 Previous Next

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 > ENTITYID > Providers > ENTITYID > Providers > ENTITYID

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Name: ENTITYID

Description: Authentication provider for FLEXCUBE users

Version: FCLBS 12.2

Control Flag: SUFFICIENT

Save

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10. Select the provider specific tab .

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, weblogic Connected to: soa_d

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

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Ldap Server Ip And Port: localhost:389

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 SSL Enabled

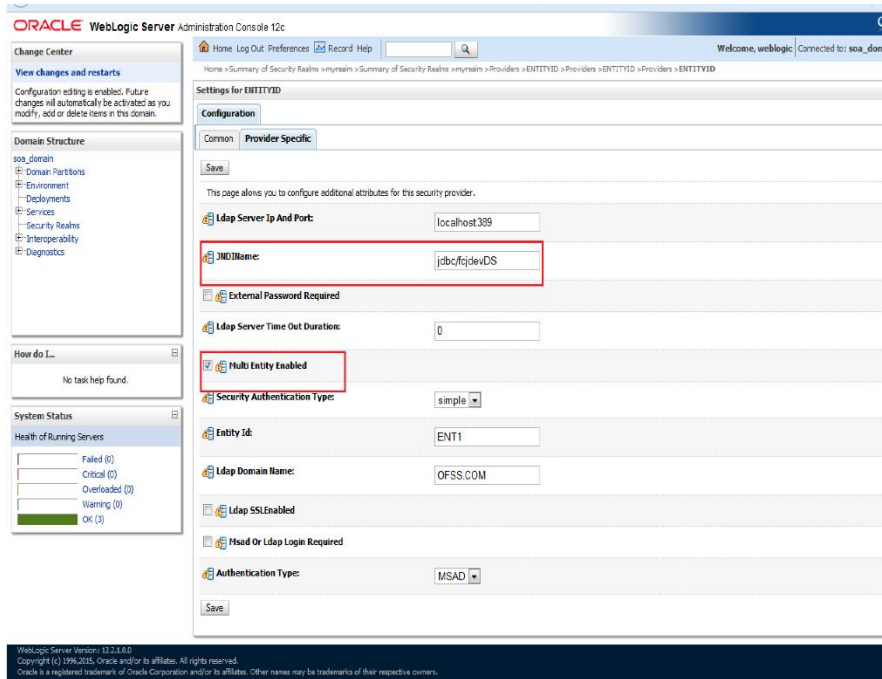
Hsadb Or Ldap Login Required

Authentication Type: MSAD

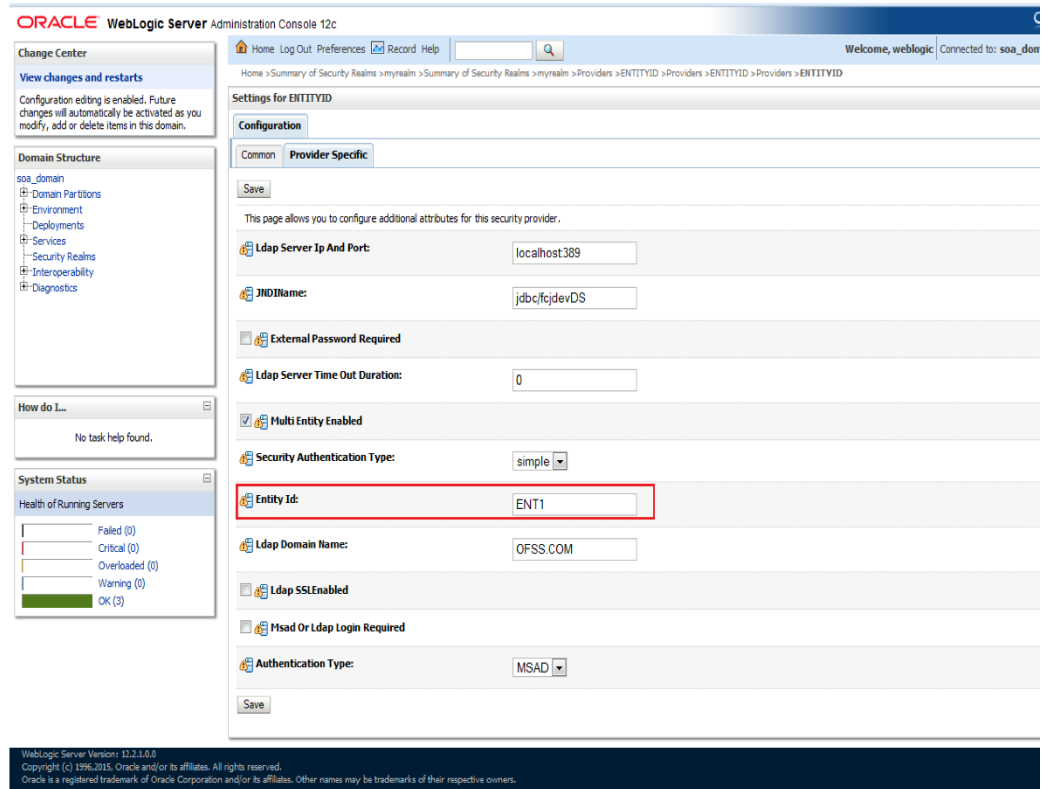
Save

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



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'.

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

| Name | State | Health | Type | Targets | Deployment Order |
|------------------------------|-----------|--------|------------------------|---------------------------------------|------------------|
| AQAdapter | Active | OK | Resource Adapter | soa_server1 | 324 |
| mqb2bui | 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 |

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for DbAdapter' and has several tabs: Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. The 'Configuration' tab is selected, and within it, the 'Outbound Connection Pools' sub-tab is active. Below the tabs, there is a text block explaining that the page displays a table of Outbound Connection Pool groups and instances. A table titled 'Outbound Connection Pool Configuration Table' is shown, with columns for 'Groups and Instances' and 'Connection Factory Interface'. The table contains one entry: 'javax.resource.cci.ConnectionFactory' under 'Groups and Instances' and 'javax.resource.cci.ConnectionFactory' under 'Connection Factory Interface'. There are 'New' and 'Delete' buttons above and below the table. On the left side, there are panels for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The 'System Status' panel shows 'Health of Running Servers' with a bar chart indicating 'OK (2)'.

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



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

- Click 'DbAdapter' again. Click 'Configuration' tab and select 'Outbound Connection Pools'.
- Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
- The new JNDI name is listed.
- Click on the hyperlink 'eis/DB/FCCDEV'.

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 outbound connection pool properties

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

Settings for javax.resource.cci.ConnectionFactory
General Properties Transaction Authentication Connection Pool Logging

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

Outbound Connection Properties
Save Showing 1 to 8 of 8 Previous | Next

| Property Name | Property Type | Property Value | Supports Dynamic Updates |
|--------------------------|-------------------|--|--------------------------|
| DataSourceName | java.lang.String | jdbc/fcdevOS | false |
| DefaultNChar | java.lang.Boolean | false | false |
| PlatformClassName | java.lang.String | org.eclipse.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 |

Save Showing 1 to 8 of 8 Previous | Next

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

1.2.6 Configuring JMS Adapter

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

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

The screenshot shows the 'Summary of JMS Servers' page in the Oracle WebLogic Server Administration Console 12c. The page provides an overview of JMS servers and includes a table with columns for Name, Persistent Store, Target, Current Target, and Health. A red circle highlights the 'New' button in the table's header.

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

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

The screenshot shows the Oracle WebLogic Server Administration Console at the 'Create a New JMS Server' wizard. The 'JMS Server Properties' step is active, displaying the following information:

- JMS Server Properties:** The following properties will be used to identify your new JMS Server.
- Name:** FCUBSJMServer
- Persistent Store:** SOAJMSFileStore

Navigation buttons: Back, Next, Finish, Cancel.

3. Select the target as SOA Server →Finish

The screenshot shows the Oracle WebLogic Server Administration Console at the 'Create a New JMS Server' wizard. The 'Select targets' step is active, displaying the following information:

- Select targets:** Select the server instance or migratable target on which you would like to deploy this JMS Server.
- Target:** SOAServer

Navigation buttons: Back, Next, Finish, Cancel.

Oracle WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Change Center

View changes and restarts

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

Domain Structure

AlphaDomain

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

How do I...?

- Configure 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)

Showing 1 to 9 of 9 Previous | Next

| Name | Persistent Store | Target | Current Target | Health |
|----------------------------------|-------------------------------------|-----------|----------------|--------|
| BamAlertEngine.JMSServer | BamAlertEngine.JMSFileStore | BAMServer | BAMServer | |
| BamCQService.JMSServer_BAMServer | BamCQService.JMSFileStore_BAMServer | BAMServer | BAMServer | |
| BamReportCache.JMSServer | BamReportCache.JMSFileStore | BAMServer | BAMServer | |
| BamServer.JMSServer_BAMServer | BamServer.JMSFileStore_BAMServer | BAMServer | BAMServer | |
| BPM.JMSServer | BPM.JMSFileStore | SOAServer | SOAServer | OK |
| FCUBS.JMSServer | SOA.JMSFileStore | SOAServer | SOAServer | OK |
| SOA.JMSServer | SOA.JMSFileStore | SOAServer | SOAServer | OK |
| UMS.JMSServer_auto_1 | UMS.JMSFileStore_auto_1 | BAMServer | BAMServer | |
| UMS.JMSServer_auto_2 | UMS.JMSFileStore_auto_2 | SOAServer | SOAServer | 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

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

How do I...?

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

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

Home Page

Information and Resources

Helpful Tools

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

General Information

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

Domain Configurations

Domain

- Domain

Environment

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

Your Deployed Resources

- Deployments

Your Application's Security Settings

- Security Realms

Services

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

Interoperability

- WTC Servers
- Jolt Connection Pools

Diagnostics

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

Charts and Graphs

- Monitoring Dashboard

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Oracle WebLogic Server Administration Console 12c

Summary of JMS Modules

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

This page summarizes the JMS system modules that have been created for this domain.

Customize this table

JMS Modules

New Delete Showing 1 to 8 of 8 Previous | Next

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

New Delete Showing 1 to 8 of 8 Previous | Next

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

Oracle WebLogic Server Administration Console 12c

Create JMS System Module

Back Next Finish Cancel

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

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

* Indicates required fields

What would you like to name your System Module?

* Name: FCUBSJMSModule

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

Descriptor File Name: _____

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

Location In Domain: _____

Back Next Finish Cancel

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ORACLE WebLogic Server Administration Console 12c

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

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
- JMS Servers
- Store-and-Forward Agents

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

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

Create JMS System Module
Back Next Finish Cancel

The following properties will be used to target your new JMS system module.
Use this page to select the server or cluster on which you would like to deploy this JMS system module. You can reconfigure targets later if you wish.

Targets:

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

Back Next Finish Cancel

WebLogic Server Version: 12.1.3.0.0

soa-infra (SOA Infrastruct... x FC121QAR2 (Oracle Web... x Settings for FCUBSJMSM... 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
- 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
Messages
All changes have been activated. No restarts are necessary.
The JMS module was created successfully.

Settings for FCUBSJMSModule
Configuration Subdeployments Targets Security Notes

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

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

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

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

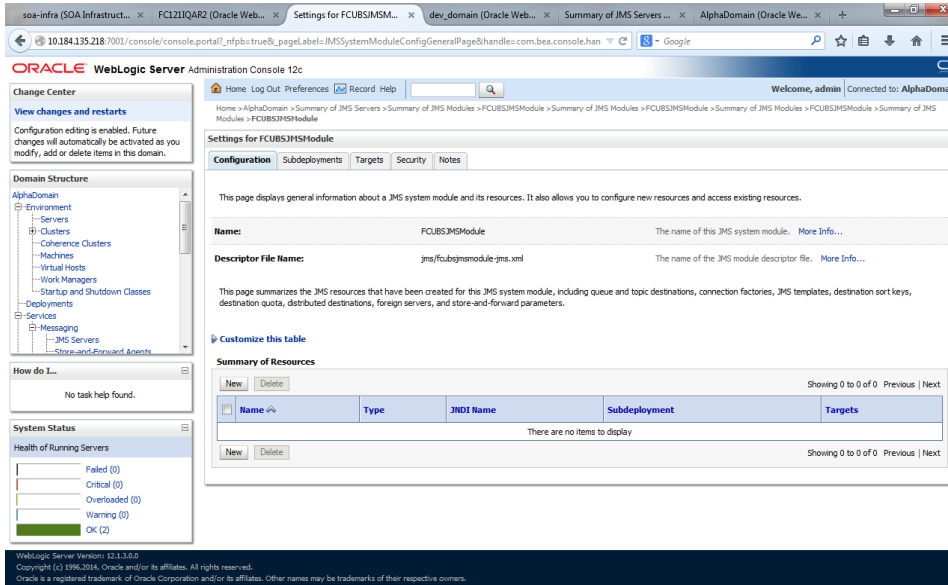
Customize this table

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

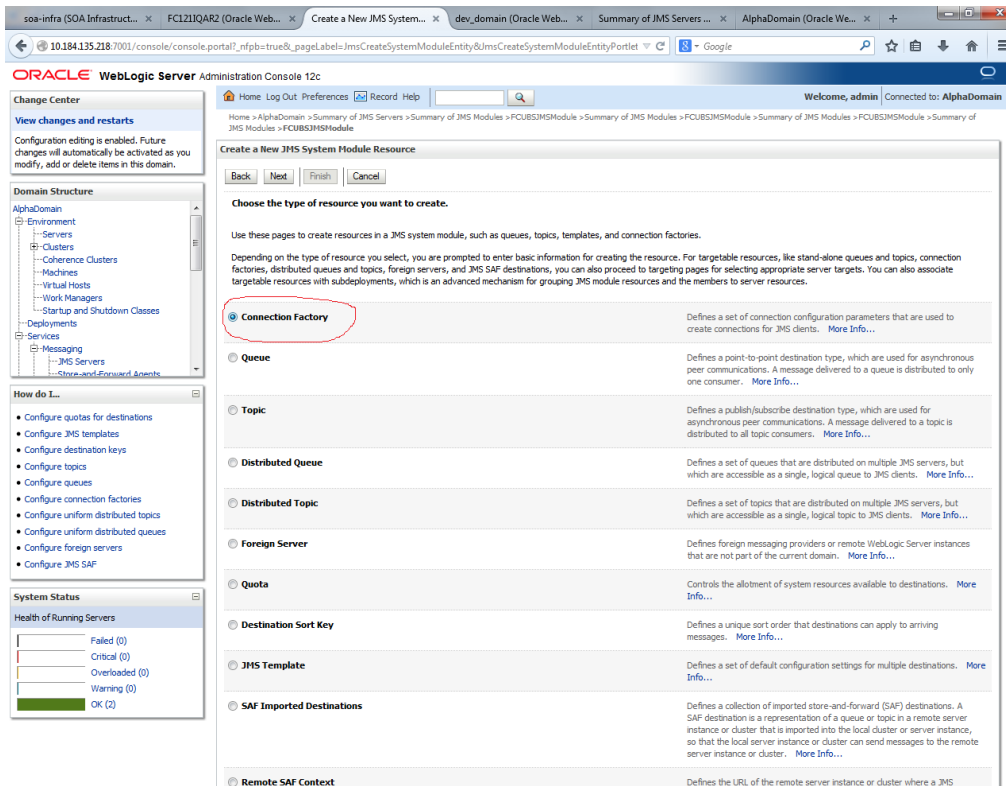
| Name | Type | JNDI Name | Subdeployment | Targets |
|-------------------------------|------|-----------|---------------|---------|
| There are no items to display | | | | |

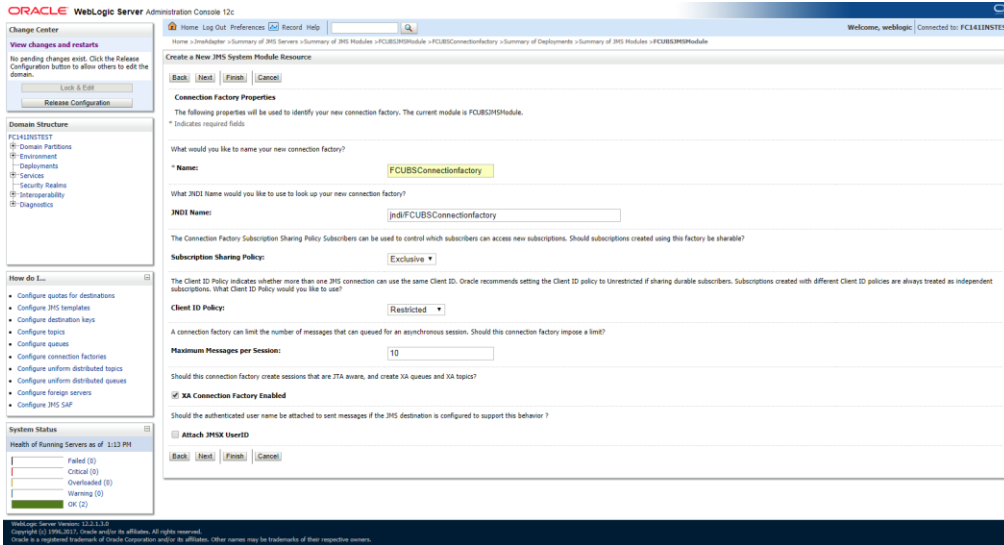
New Delete Showing 0 to 0 of 0 Previous Next

6. Go back to JMS Modules→FCUBSJMSModule→New

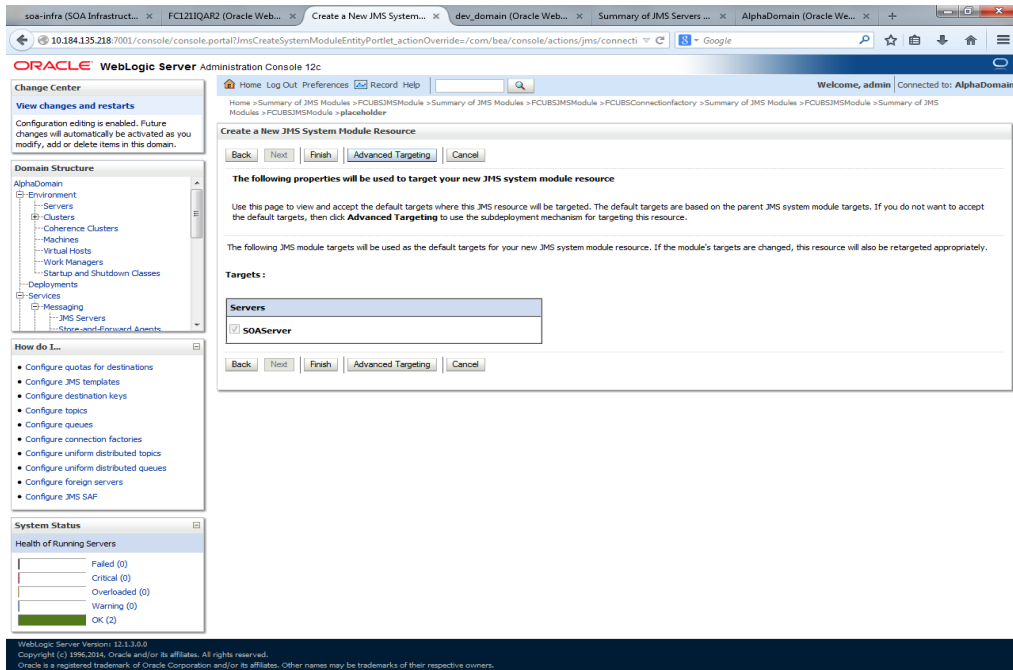


7. Click on Connection Factory→ next→Create the connection Factory with the below Names→Next





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 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

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 FC121IQR2 (Oracle Web... x Create a New Subdepl... x dev_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?jmsCreateSystemModuleEntityPortlet_actionOverrides=/com/bee/console/actions/jms/target/n... 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 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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10.184.135.218:7001/console/console.portal?jmsCreateSystemModuleEntityPortlet_actionOverride=/com/bean/console/actions/jms/target/cr

ORACLE WebLogic Server Administration Console 12c

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

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

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

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

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

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

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

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

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

Subdeployments: [FCUBS] [Create a New Subdeployment]

What targets do you want to assign to this subdeployment?

Targets:

Servers
 SOAServer

JMS Servers
 BPHJMServer
 FCUBSJMServer
 SOAJMServer
 UMSJMServer_auto_2

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

soa-infra (SOA Instruct... x FCI21IAR2 (Oracle Web... x Settings for FCUBSJMSM... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

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

ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...
No task help found.

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

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

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

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

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

Descriptor File Name: jms/fcubjmsmodule-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 |
|---|--------------------|-----------------------------|---------------|---------------|
| <input type="checkbox"/> FCUBSConnectionFactory | Connection Factory | jndi/FCUBSConnectionFactory | FCUBS | FCUBSJMServer |

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

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Oracle WebLogic Server Administration Console 12c

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

Messages

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

Settings for FCUBSJMSModule

Configuration | Subdeployments | Targets | Security | Notes

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

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

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

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

Customize this table

Summary of Resources

New Delete Showing 1 to 1 of 1 Previous | Next

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

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

soa-infra (SOA Infrastruct... x FC121QAR2 (Oracle Web... x Create a New JMS System... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?/jmsCreateSystemModuleEntityPortlet.action?overrides=/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

soa-infra (SOA Infrastruct... x FC121QAR2 (Oracle Web... x Create a New JMS System... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?jms>CreateSystemModuleEntityPortlet_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 > FCUBSConnectionFactory > Summary of JMS Modules > FCUBSJMSModule > Summary of JMS Modules > FCUBSJMSModule > placeholder

Create a New JMS System Module Resource

Back Next Finish Cancel

JMS Destination Properties

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

* Indicates required fields

Name: NOTIFY_DEST_QUEL

JNDI Name: jms/NOTIFY_DEST_QUEUE

Template: None

Back Next Finish Cancel

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soa-infra (SOA Infrastruct... x FC121QAR2 (Oracle Web... x Create a New JMS System... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal

ORACLE WebLogic Server Administration Console 12c

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

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

Create a New JMS System Module Resource

Back Next Finish Cancel

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

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

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

Subdeployments: FCUBS Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets:

| JMS Servers | |
|----------------------------------|--------------------|
| <input type="radio"/> | BPHJMServer |
| <input checked="" type="radio"/> | FCUBSJMServer |
| <input type="radio"/> | SOAJMServer |
| <input type="radio"/> | UHSJMServer_auto_2 |

Back Next Finish Cancel

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Oracle WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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
- Start/Up 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
New Delete Showing 1 to 2 of 2 Previous | Next

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

New Delete Showing 1 to 2 of 2 Previous | Next

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

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

soa-infra (SOA Infrastruct... x FC121IQR2 (Oracle Web... x Create a New Outbound... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

10.184.135.218:7001/console/console.portal?ConnectorCreateOutboundConnectionPortlet_actionOverride=/com/bee/console/actions/conn

ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...
Configure outbound connection pool properties

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

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Create a New Outbound Connection

Back Next Finish Cancel

JNDI name for Outbound Connection Instance
Enter the JNDI name that you want to use to obtain the new connection instance
* Indicates required fields

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

* JNDI Name: eis/Queue/Notif

Back Next Finish Cancel

soa-infra (SOA Infrastruct... x FC121IQR2 (Oracle Web... x Settings for JmsAdapter - ... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

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

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)

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/foranoma/Topic | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/jbossmq/Queue | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/jms/jaiaB2BQueueCF | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/jms/jaiaErrorTopicCF | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/primati/Queue | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/Queue/Notif | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/summq/Queue | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/tbjms/Queue | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/tbjms/Topic | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/tbjmsDirect/Queue | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/tbjmsDirect/Topic | oracle.tp.adapter.jms.IJmsConnectionFactory |
| eis/wls/ephemq/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 |

New Delete Showing 1 to 1 of 1 Previous | Next

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for oracle.tip.adapter.jms.DmsConnectionFactory". Under the "Outbound Connection Properties" section, there is a table with the following data:

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

The "ConnectionFactoryLocation" field is currently being edited with the value "jndi/FCUBSConnec".

The screenshot shows the Oracle WebLogic Server Administration Console after the configuration update. The "Messages" section displays the following information:

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

The "Outbound Connection Properties" table now shows the updated value for "ConnectionFactoryLocation":

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

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

Summary of Deployments

| Name | State | Health | Type | Targets | Deployment Order |
|------------------------------|-----------|---------|------------------------|-----------------------------------|------------------|
| AGAdapter | Prepared | OK | Resource Adapter | SOAServer | 324 |
| b2bui | Prepared | OK | Enterprise Application | SOAServer | 313 |
| BamComposer | New | | Enterprise Application | BAMServer | 500 |
| BamCQService | New | | Enterprise Application | BAMServer | 300 |
| BamServer | New | | Enterprise Application | BAMServer | 400 |
| BPMComposer | Active | OK | Enterprise Application | SOAServer | 385 |
| coherence-transaction-rar | Active | OK | Resource Adapter | AdminServer, BAMServer, SOAServer | 100 |
| CoherenceAdapter | Installed | | Resource Adapter | | 331 |
| DBAdapter | Active | OK | Resource Adapter | SOAServer | 322 |
| DefaultToDoTaskFlow | Active | OK | Enterprise Application | SOAServer | 314 |
| DMS Application (12.1.3.0.0) | Active | OK | Web Application | AdminServer, BAMServer, SOAServer | 5 |
| em | Active | OK | Enterprise Application | AdminServer | 400 |
| FCUBSAppLUT (12.1.0.0.0) | Active | Warning | Enterprise Application | | 600 |
| FileAdapter | Active | OK | Resource Adapter | SOAServer | 321 |
| frevvo | Active | OK | Enterprise Application | SOAServer | 100 |
| FtpAdapter | Active | OK | Resource Adapter | SOAServer | 325 |
| GWWebServices (12.1.0.0.0) | Active | OK | Enterprise Application | SOAServer | 600 |
| JDEWorldAdapter | Installed | | Resource Adapter | | 333 |

Update Application Assistant

Back Next Finish Cancel

Locate new deployment files

You have elected to update the JmsAdapter application.

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

Deployment plan path: /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/Plan1.xml Change Path

Redeploy this application using the following deployment files:

Source path: /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/JmsAdapter.rar Change Path

Deployment plan path: /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/Plan1.xml Change Path

Back Next Finish Cancel

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of Deployments" and contains a table of applications. The table has the following columns: Name, State, Health, Type, Targets, and Deployment Order. The rows include:

| 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 |
| JMS Application (12.1.3.0.0) | Active | OK | Web Application | AdminServer, BAMServer, SOAServer | 5 |

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

1.2.7 Configuring FTP Adapter

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Settings for FtpAdapter' and has several tabs: Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. The 'Configuration' tab is active, and within it, the 'Outbound Connection Pools' sub-tab is selected. Below the tabs, there is a table titled 'Outbound Connection Pool Configuration Table'. The table has two columns: 'Groups and Instances' and 'Connection Factory Interface'. The table lists several entries, including 'javax.resource.cdi.ConnectionFactory' and various 'eis/ftp/FtpAdapter' instances. At the bottom of the table, there are 'New' and 'Delete' buttons. The left sidebar contains 'Change Center', 'Domain Structure', 'How do I...', and 'System Status' sections.

The screenshot shows the Oracle WebLogic Server Administration Console with the 'Create a New Outbound Connection' dialog box open. The dialog has a 'Back', 'Next', 'Finish', and 'Cancel' button bar at the top. Below the buttons, there is a section titled 'JNDI name for Outbound Connection Instance'. It contains a text input field with the value 'eis/ftp/FtpAdapterLcl'. Below the input field, there are 'Back', 'Next', 'Finish', and 'Cancel' buttons. The background shows the same console interface as the previous screenshot, but the 'Create a New Outbound Connection' dialog is the primary focus.

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

1.2.7.1 BIP Interactive reports configuration

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

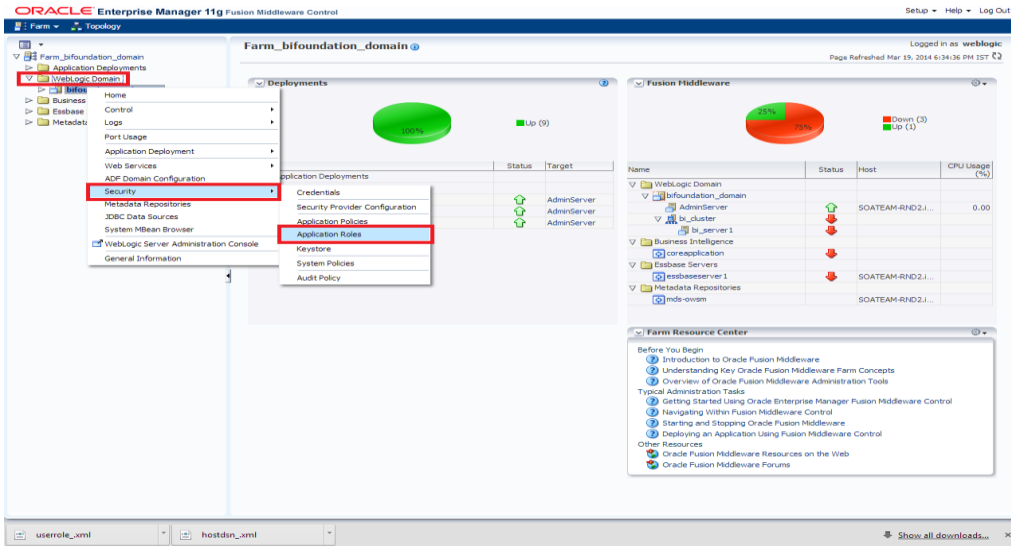
1. Login to the BIP domain console, `http/s:<hostname>:<port>/console`.
2. Follow the step 1.2.1 to add the “FCJCustomProvider”.

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Users' sub-tab is selected. Below the tabs, there is a message: 'This page displays information about each user that has been configured in this security realm. Some results are not displayed because there are too many matches. Please customize this table to specify more specific criteria.' Below this message is a 'Customize this table' section with a 'Users' table. The table has columns for 'Name', 'Description', and 'Provider'. The table contains 10 rows of user data. The left sidebar shows the 'Domain Structure' tree with 'Security Realms' highlighted. The bottom status bar shows 'WebLogic Server Version: 10.3.6.0' and copyright information.

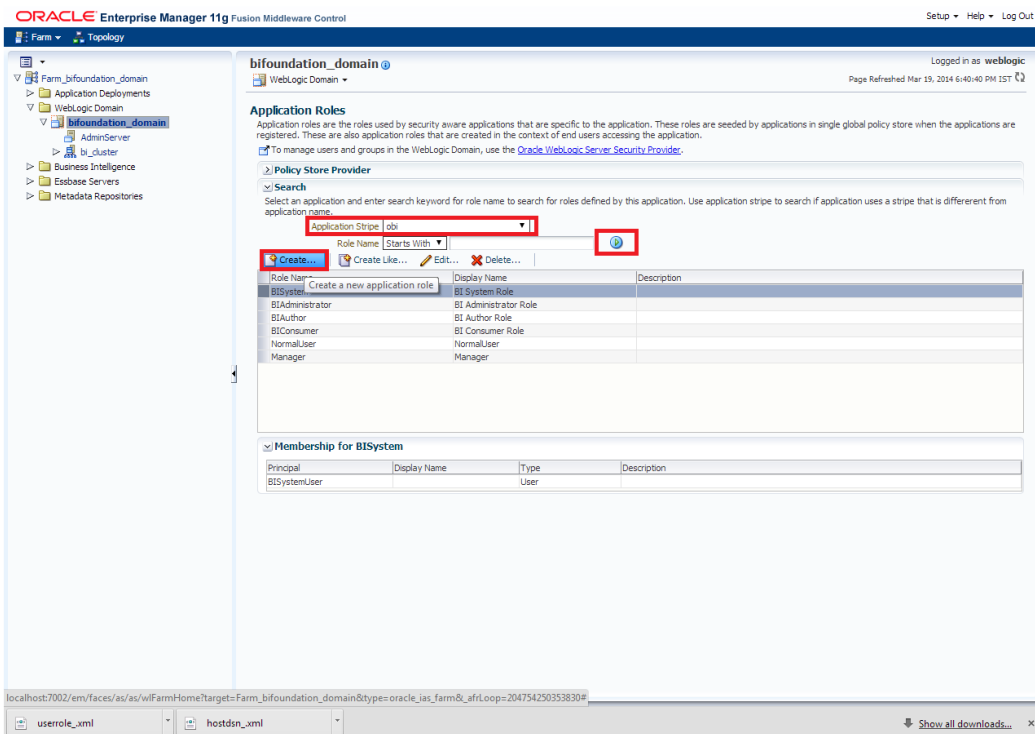
| Name | Description | Provider |
|-----------|-----------------------|-------------------|
| 000ANT_1 | Default Admin User 1 | FCJCustomProvider |
| 11111RM_3 | Siveta | FCJCustomProvider |
| 11111RM_4 | RM | FCJCustomProvider |
| 112233 | Default Admin User 10 | FCJCustomProvider |
| 121212 | Default Admin User 10 | FCJCustomProvider |
| 123456 | SANKER GS | FCJCustomProvider |
| 141414 | Default Admin User 10 | FCJCustomProvider |
| 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

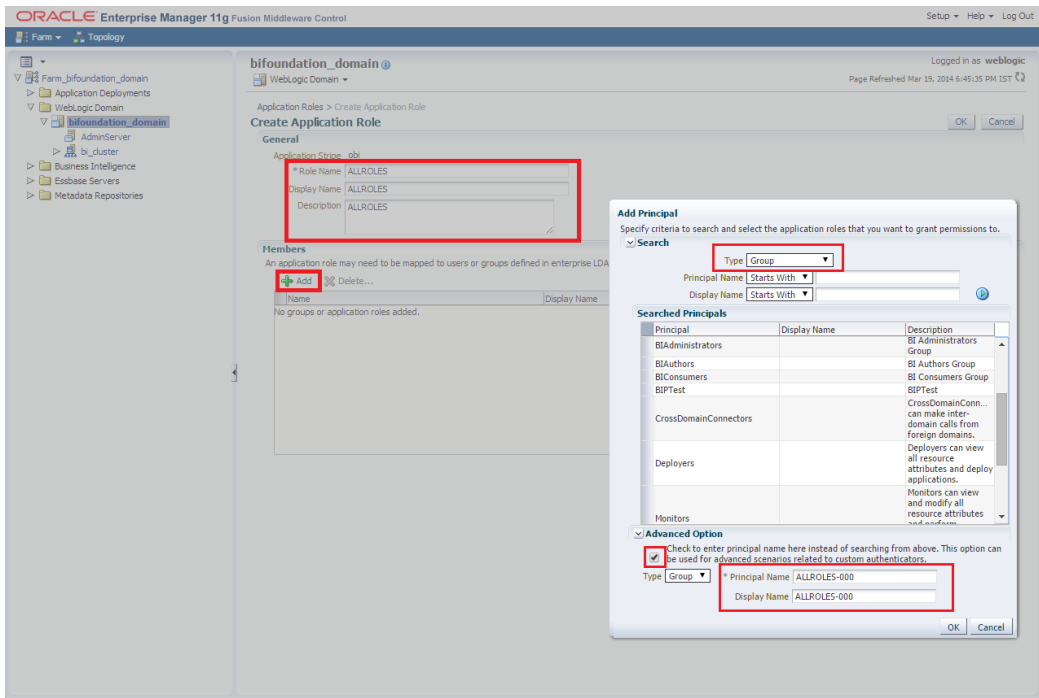


4. After navigating to next screen as in below screenshot,

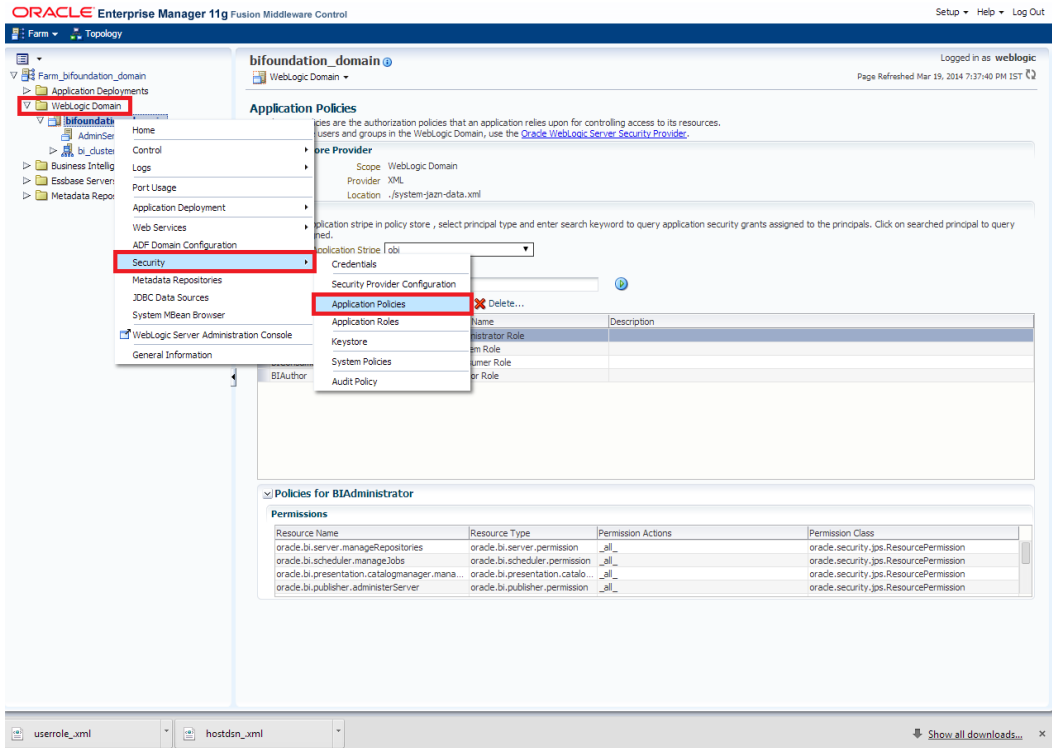
- Select application stripe as obi
- Click on the search button
- Click on create button to add a role



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.

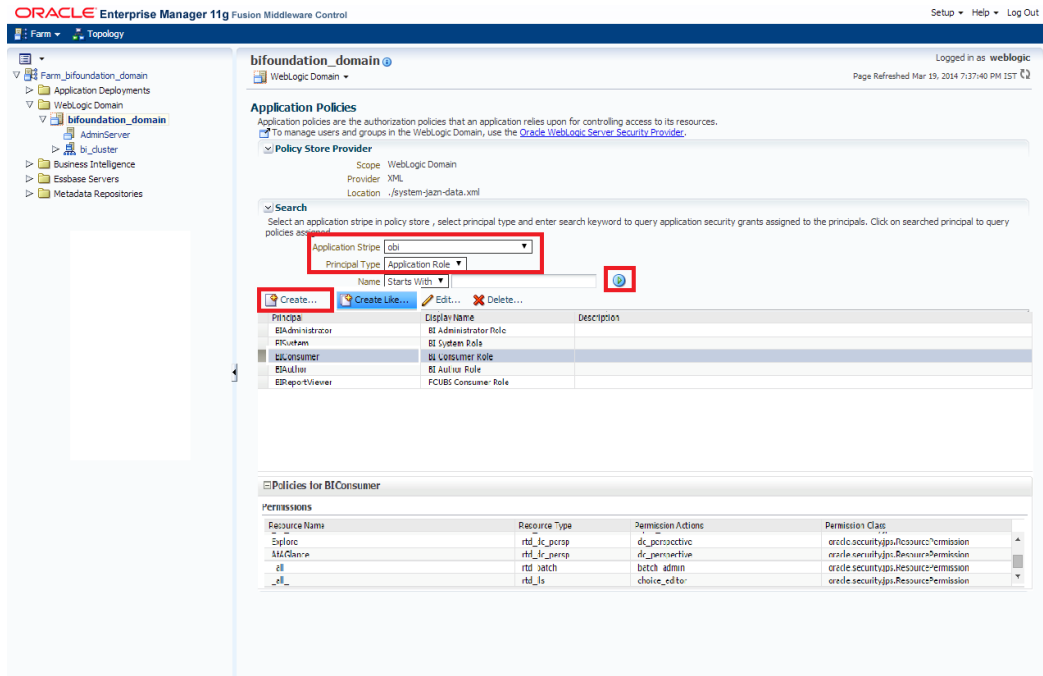


6. After getting information message like “A new role added successfully”, then again
 - Right click on the domain(in which BI suite is installed) under the weblogic domain
 - Go to security and then navigate to application policies

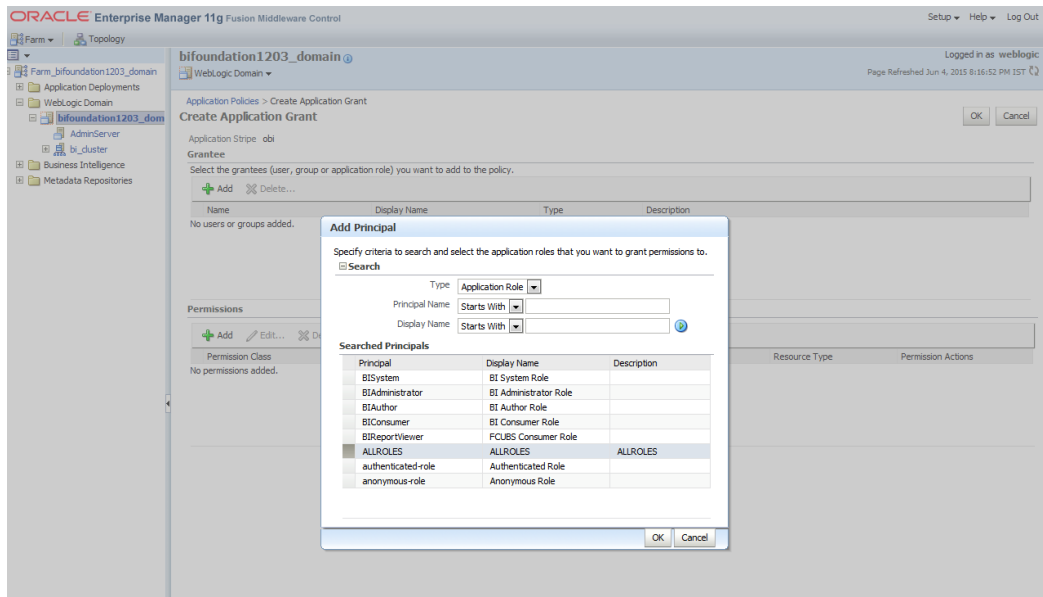


7. After navigating to next screen as per screen shot,

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

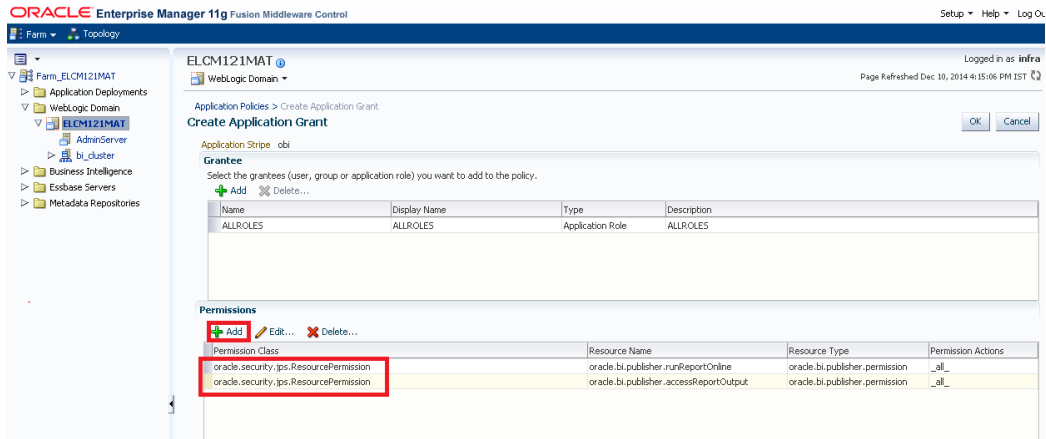


8. After navigating to next screen as per the screen shot,
 - Click on Add button , a new window “Add Principal” will be launched.
 - Select Type as “Application Role” and click on the search button
 - From the list select the role that has been created earlier in application role screen and click on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



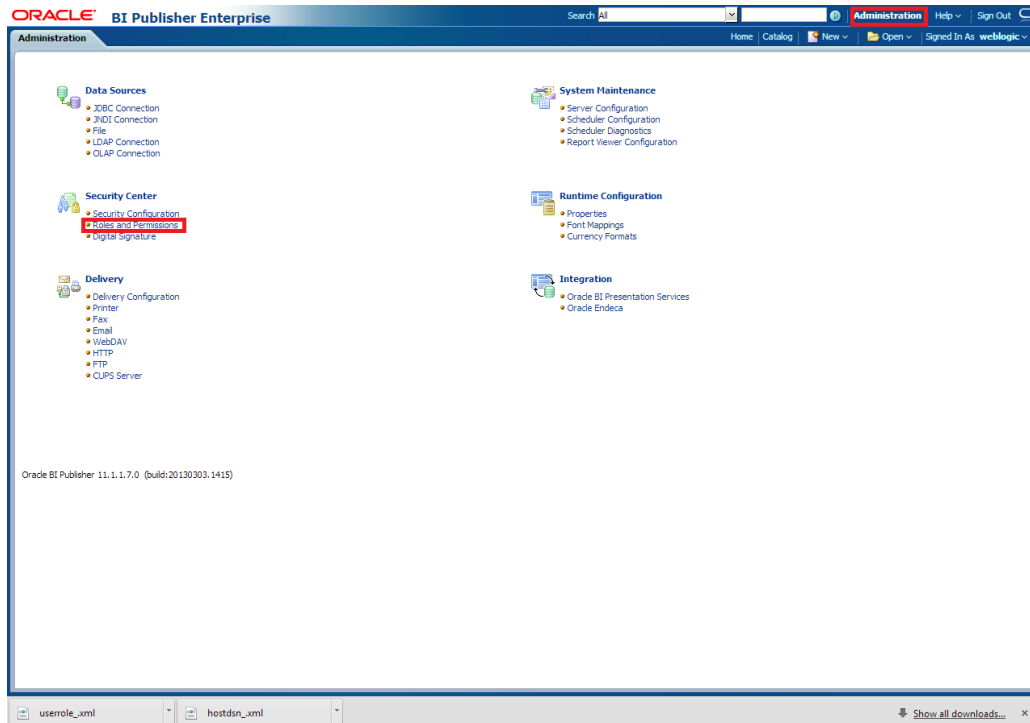
- Click Add button under Permissions and add the two permissions one by one as mentioned below.

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

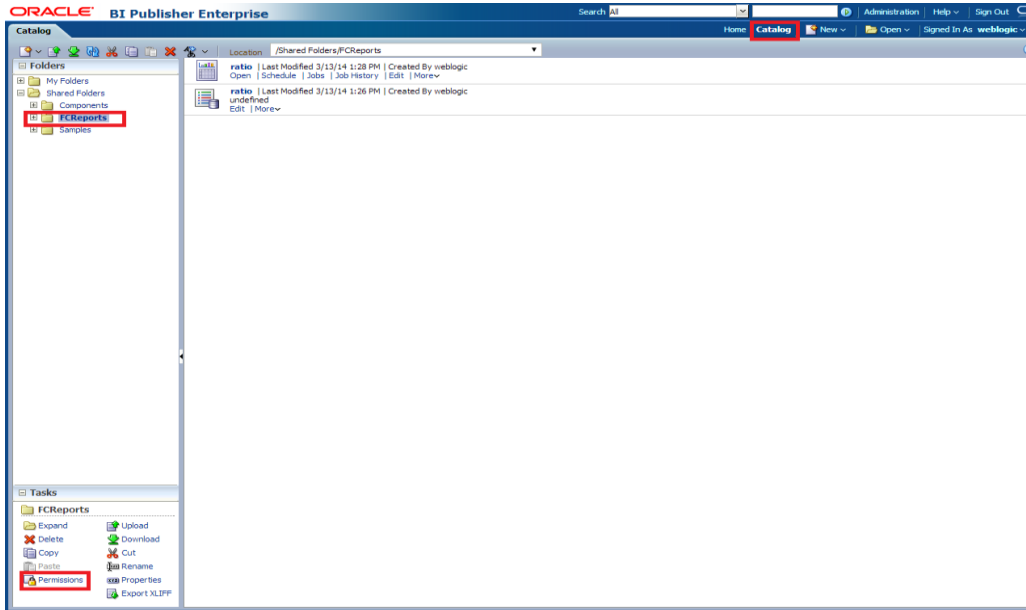


9. After getting information message like “A security added successfully”,

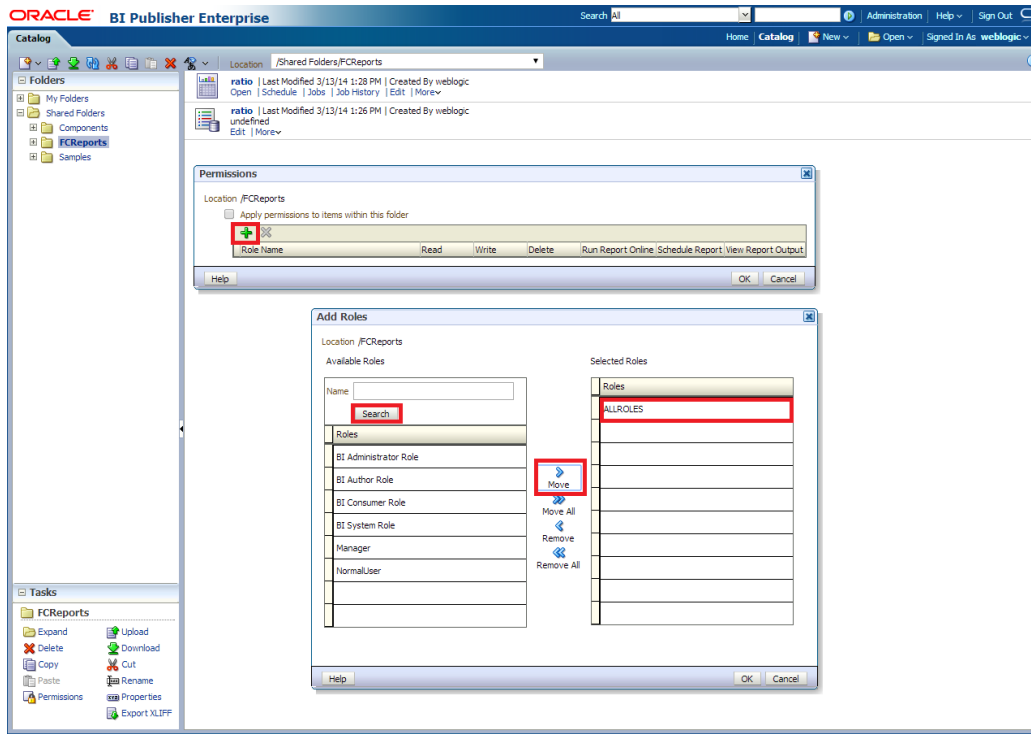
- Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpserver`
- Click on the Administration .
- Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart the servers.



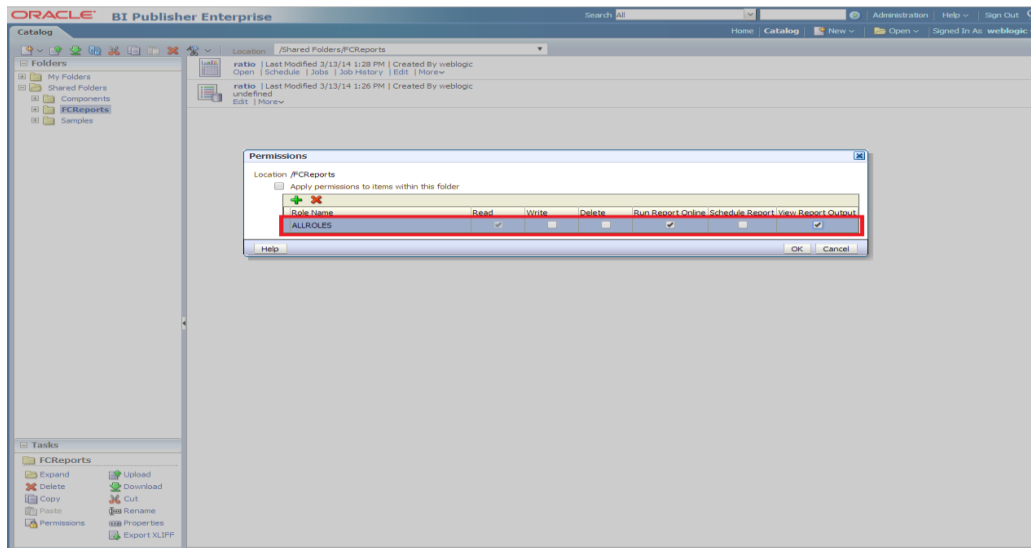
10. Then click on the Catalog , then on the folder that has been created , and then on permissions



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



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



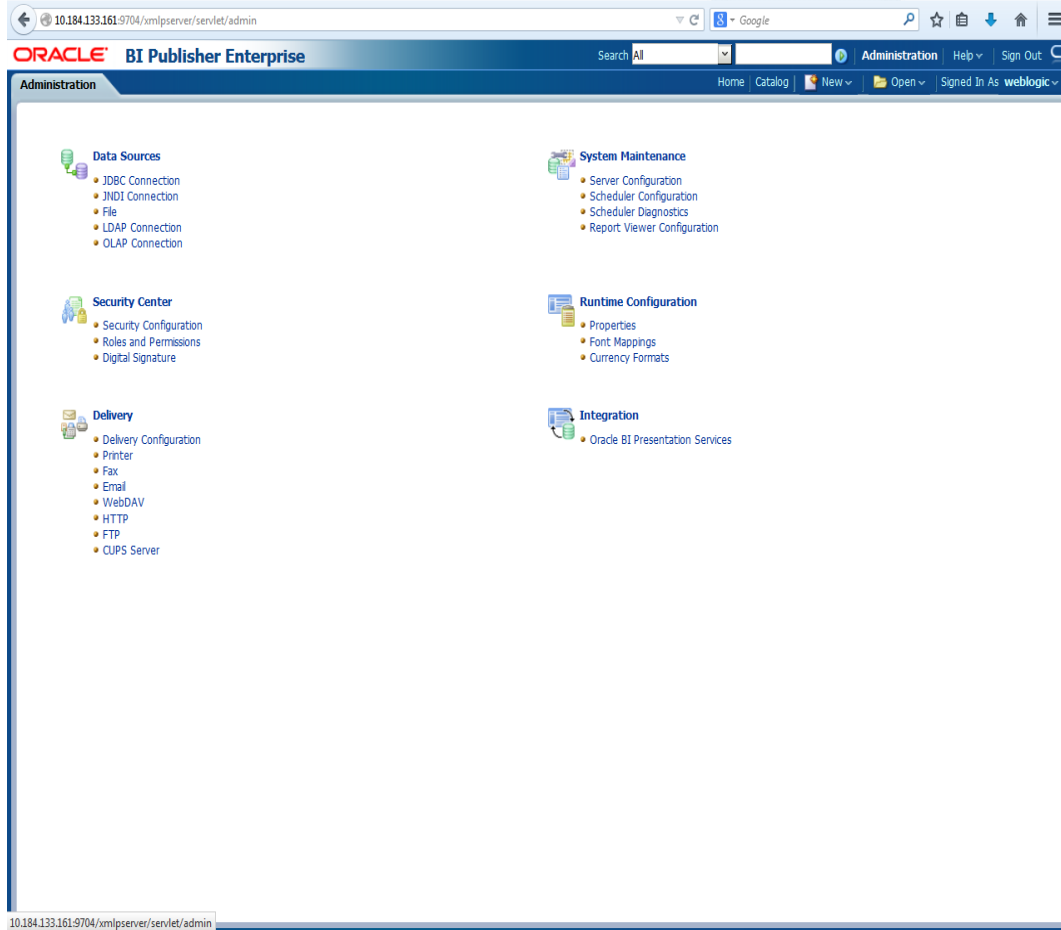
Now the reports in the folder will be accessed accordingly based on the roles.

Note:

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

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

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



ORACLE BI Publisher Enterprise Administration | Home | Catalog | New | Open | Signed In As weblogic

Search All

Administration

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

10.184.133.161:9704/xmlsoa/ser/vlet/adm/datasource/connectionhome?voe=idbc& s1kn=5ec2d6c614e67518204

ORACLE BI Publisher Enterprise Administration | Home | Catalog | New | Open | Signed In As weblogic

Search All

Administration

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 |
|------------------|---|--------|
| dema | jdbc:oracle:thin:@10.184.149.52:1521:SOADB | |
| FCI202UBS | jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW | |
| FCI21DEV | jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW | |
| FCBIP | jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C | |
| FCOR121DEV | jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C | |
| FCOB1211UT | jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C | |
| FCUBS1203 | jdbc:oracle:thin:@10.184.132.137:1521:FCPAT CH2 | |
| FCUBS121 | jdbc:oracle:thin:@wlf00aew:1521:ORFC12C | |
| FCUBS12C | jdbc:oracle:thin:@10.184.132.172:1521:FCUBS12C | |
| fcubserf1202 | 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.

ORACLE BI Publisher Enterprise

Administration > JDBC > Add Data Source

Add Data Source

General

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

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

Use System User
 * Username: DEV12C_SOAINFRA
 Password: [masked]
 Pre Process Function:
 Post Process Function:

Use Proxy Authentication

Backup Data Source

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

Use Backup Data Source
 Connection String:
 Username:
 Password:

16. Add the fcubs roles to allowed Roles under security

ORACLE BI Publisher Enterprise

Administration > Security > Add Data Source

Add Data Source

Security

Allow Guest Access

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

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

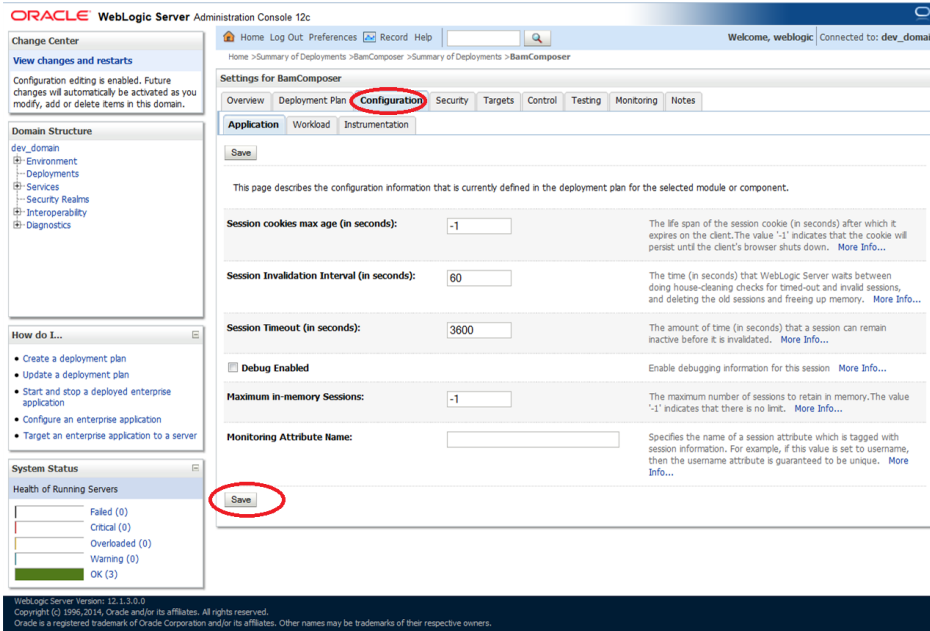
1.2.8 **BAM Report Configuration settings**

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

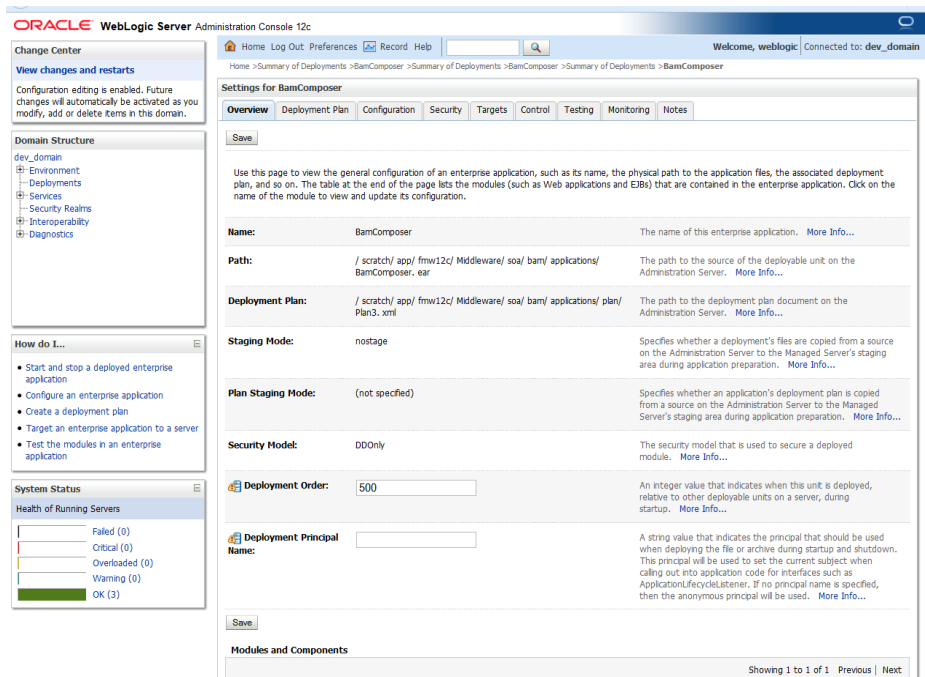
The screenshot shows the Oracle WebLogic Server Administration Console. The main area displays the 'Summary of Deployments' page. On the left, the 'Domain Structure' tree is visible, with 'Deployments' selected and highlighted in red. The 'Deployments' table lists various applications, with 'BAMComposer' highlighted in red. The table columns are Name, State, Health, Type, Targets, and Deployment Order. The 'BAMComposer' row shows it is an Enterprise Application, active, with a health of OK, and targets 'bam_server1'.

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

4. click on Configuration Configuration → Save



5. Click on Overview → check the deployment plan location



6. Add variable and variable assignment as below to the Plan.xml in <module-name>BamComposerWeb.war</module-name> and for reference please find plan.xml file.

```
<variable>
  <name>oracle.adf.view.rich.security.FRAME_BUSTING</name>
  <value>never</value>
</variable>
```

```

<module-descriptor external="true">
  <root-element>web-app</root-element>
  <uri>WEB-INF/web.xml</uri>
  <variable-assignment>
    <name>oracle.adf.view.rich.security.FRAME_BUSTING</name>
    <xpath>/web-app/context-param/[param-
name="oracle.adf.view.rich.security.FRAME_BUSTING"]/param-value</xpath>
    <origin>planbased</origin>
  </variable-assignment> </module-descriptor>

```



Plan3.xml

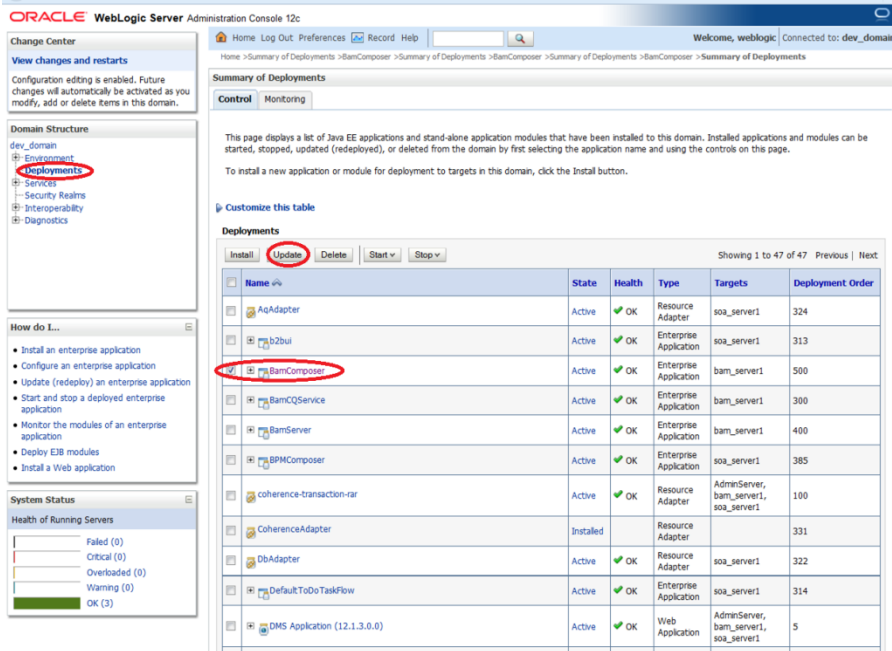
7. Stop the BAM composer application in console.

The screenshot shows the Oracle Enterprise Manager console interface. On the left, there are navigation panels for 'Services', 'How do I...', and 'System Status'. The main area displays a 'Deployments' table with columns for Name, Health, Type, Targets, and Deployment Order. The 'BamComposer' application is highlighted with a red circle. A context menu is open over it, with 'Force Stop Now' selected. Other applications listed include AqAdapter, b2bul, BamCQService, BamServer, BPMComposer, coherence-transaction-rar, CoherenceAdapter, DBAdapter, DefaultToDoTaskFlow, DMS Application (12.1.3.0.0), em, FOUBSAppJUT (12.1.0.0.0), FOUBSAppSoaEmb (12.1.0.0.0), FileAdapter, frevo, and FmAdapter.

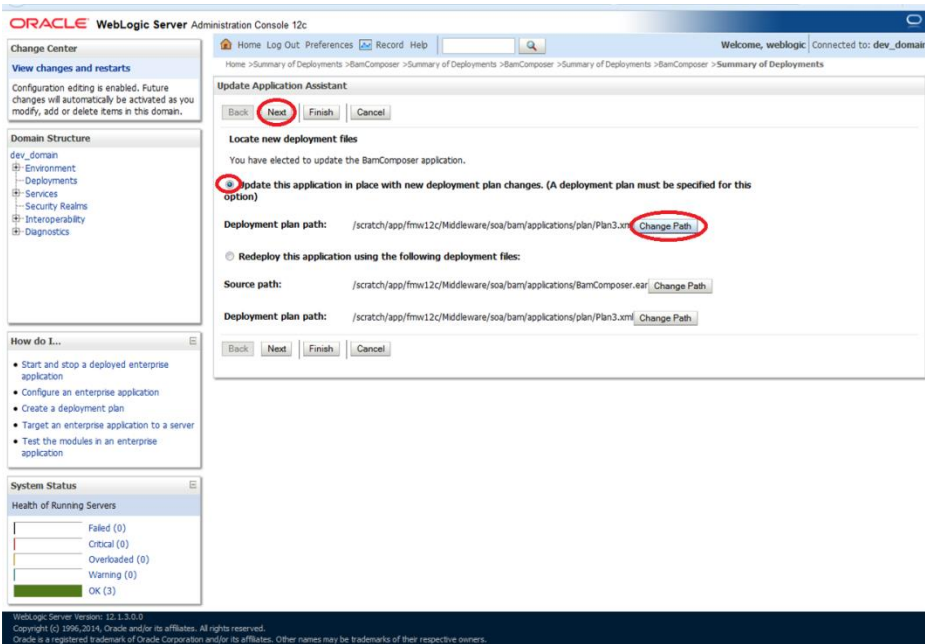
| Name | Health | Type | Targets | Deployment Order |
|------------------------------|-----------|------------------------|--------------------------------------|------------------|
| AqAdapter | OK | Resource Adapter | soa_server1 | 324 |
| b2bul | OK | Enterprise Application | soa_server1 | 313 |
| BamComposer | OK | Enterprise Application | bam_server1 | 500 |
| BamCQService | OK | Enterprise Application | bam_server1 | 300 |
| BamServer | OK | Enterprise Application | bam_server1 | 400 |
| BPMComposer | OK | Enterprise Application | soa_server1 | 385 |
| coherence-transaction-rar | OK | Resource Adapter | AdmnServer, bam_server1, soa_server1 | 100 |
| CoherenceAdapter | Installed | Resource Adapter | | 331 |
| DBAdapter | OK | Resource Adapter | soa_server1 | 322 |
| DefaultToDoTaskFlow | OK | Enterprise Application | soa_server1 | 314 |
| DMS Application (12.1.3.0.0) | OK | Web Application | AdmnServer, bam_server1, soa_server1 | 5 |
| em | OK | Enterprise Application | AdmnServer | 400 |
| FOUBSAppJUT (12.1.0.0.0) | Warning | Enterprise Application | soa_server1 | 600 |
| FOUBSAppSoaEmb (12.1.0.0.0) | OK | Enterprise Application | soa_server1 | 601 |
| FileAdapter | OK | Resource Adapter | soa_server1 | 321 |
| frevo | Installed | Enterprise Application | | 100 |
| FmAdapter | OK | Resource | soa_server1 | 325 |

8. Update the deployment plan.

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



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



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

Update Application Assistant

Select a deployment plan.

Select or enter a deployment plan for this app. The file must exist and have a .xml extension.

Path: /scratch/app/fmw12c/Middleware/soa/bam/applications/plan/Plan3.xml

Recently Used Paths:

- /scratch/app/fmw12c/Middleware/soa/bam/applications/plan
- /scratch/app/fmw12c/Middleware/soa/bam/applications
- /scratch/app/fmw12c/Middleware/soa/bam
- /scratch/work_area/DEV/ear_staging

Current Location: ofs2221222 / scratch / app / fmw12c / Middleware / soa / bam / applications / plan

Plan.xml (unselected)

Plan3.xml (selected)

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.

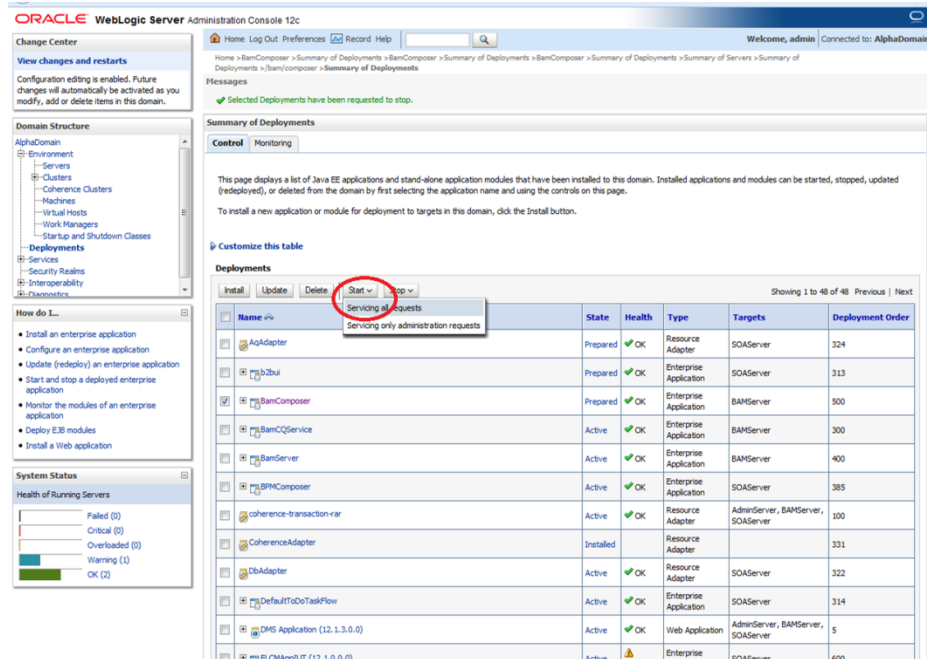
To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Install Update Delete Start Stop

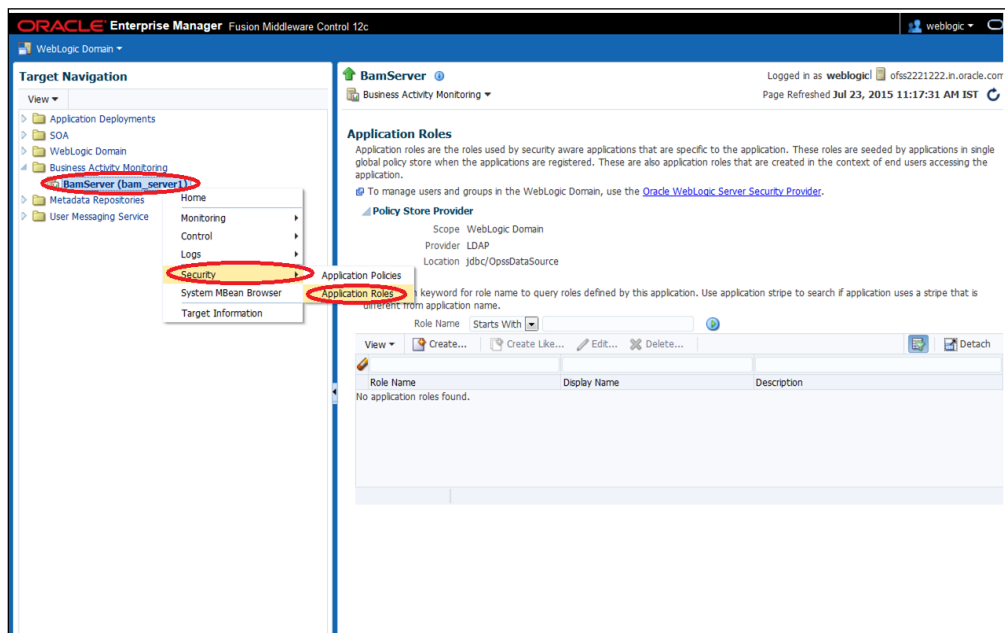
| Name | State | Health | Type | Targets | Deployment Order |
|---------------------------|-----------|--------|------------------------|---------------------------------------|------------------|
| AqAdapter | Active | OK | Resource Adapter | soa_server1 | 324 |
| b2bul | Active | OK | Enterprise Application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

12. Restart the BAM Composer application in the console

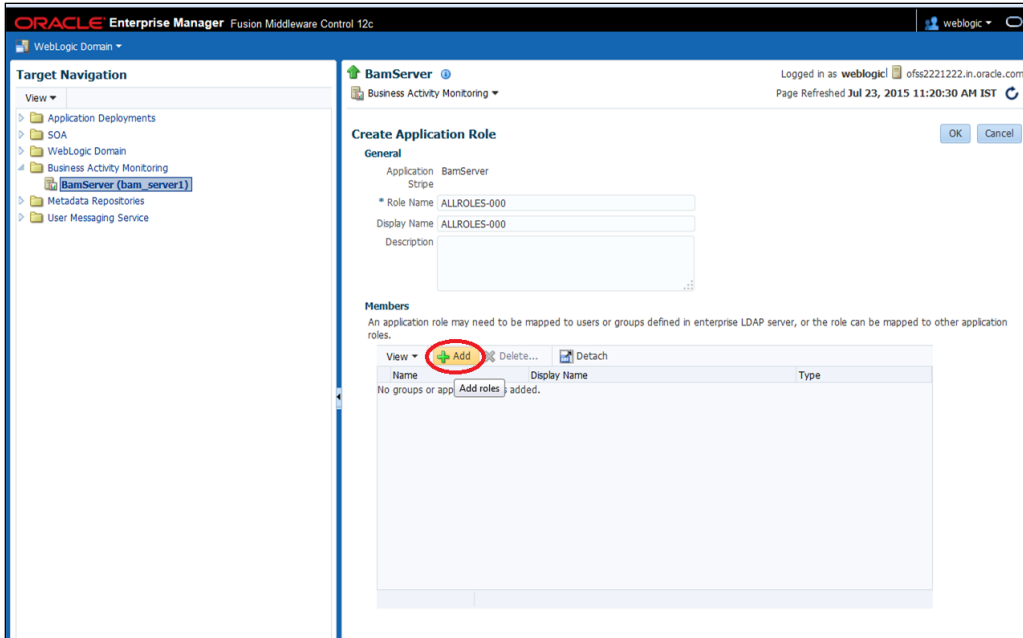


13. Login in to em console <http://hostname:port/em>

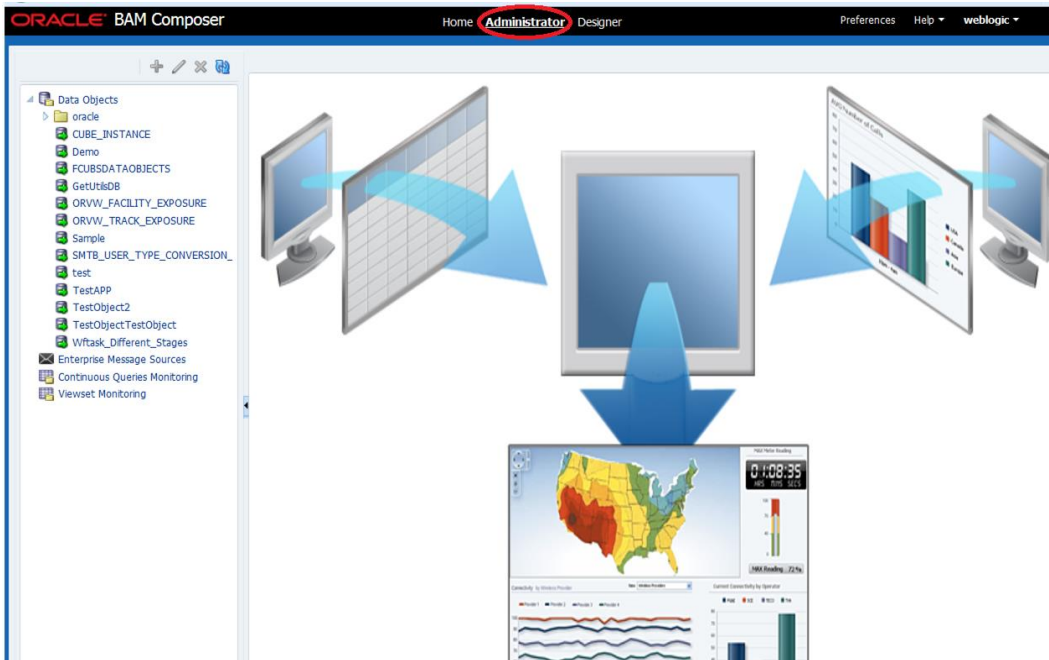
14. Right Click on BAM Server → Security → Application Roles



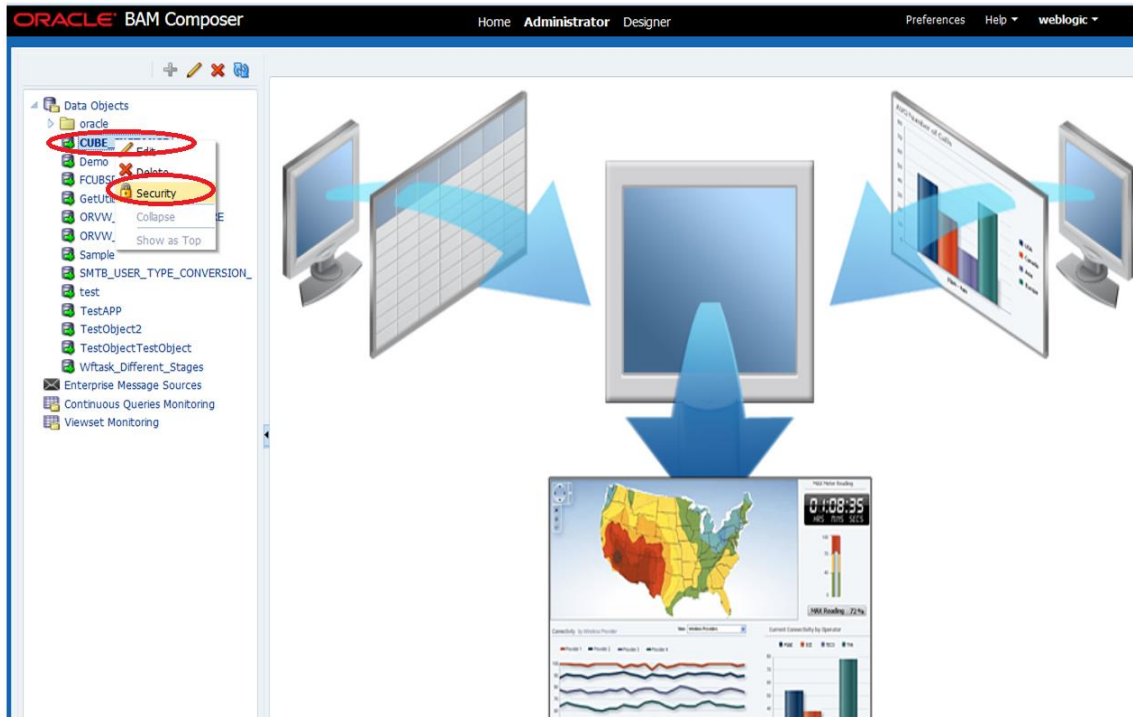
15. Click on Create → create application role with ALL ROLES-000 → Click on ADD button in the Members



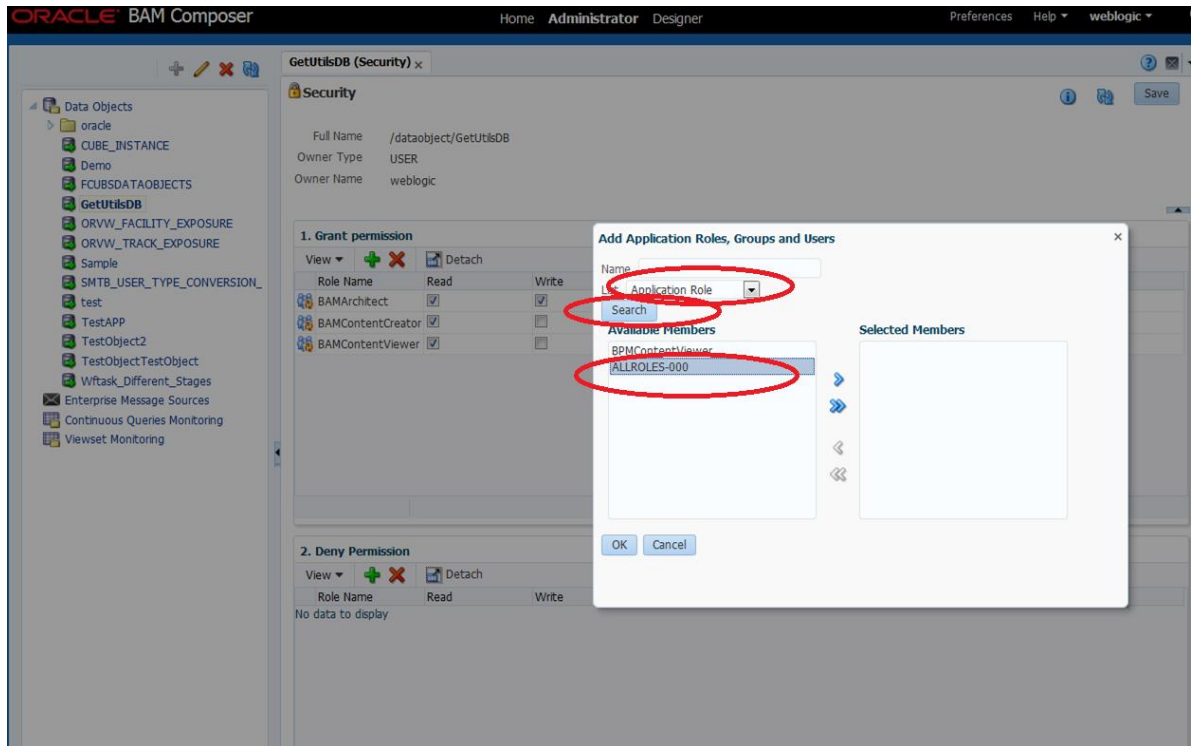
16. Select the Type as Group and add principle details be referring the below screen shot.
17. Login to BAM Composer → <http://hostname:port/bam/composer-->> Click on Administrator.



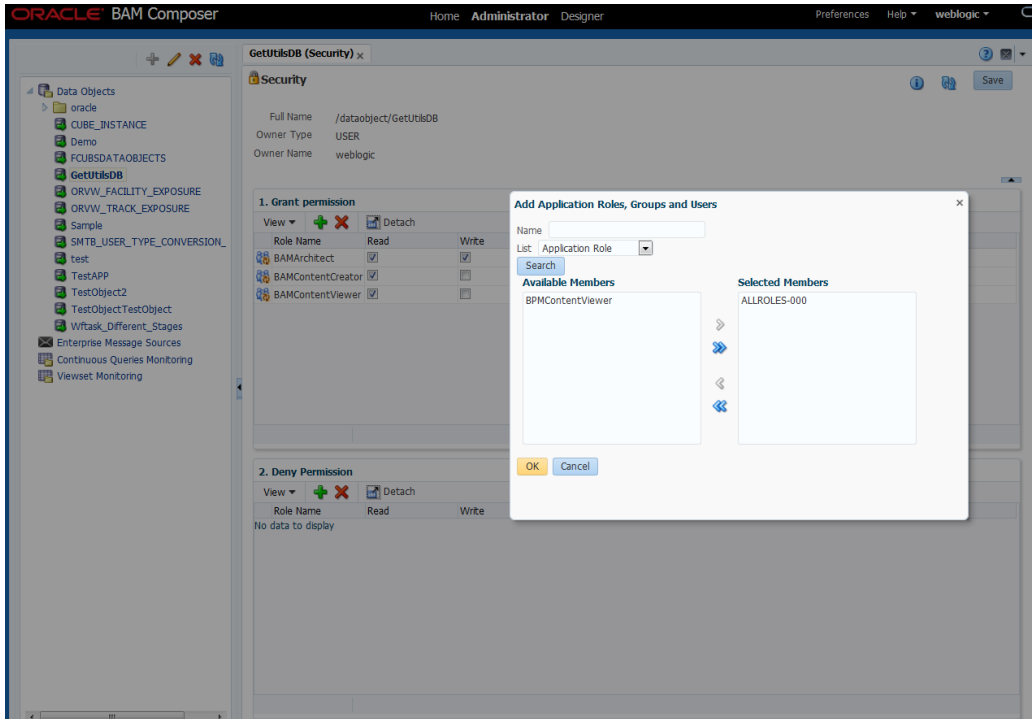
18. Go to Data Object→Right Click on CUBE_INSTANCE→Security



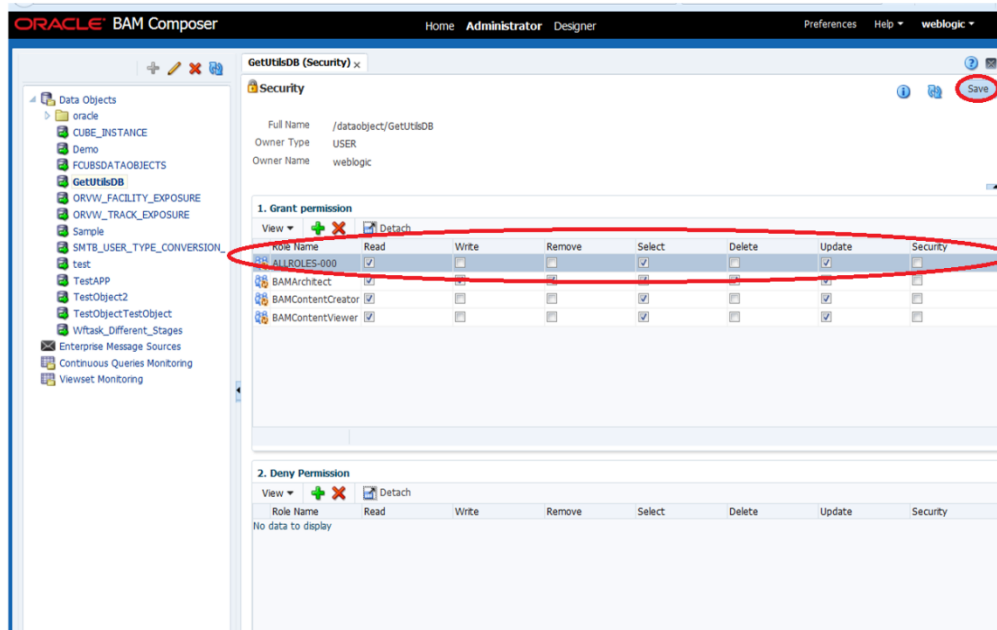
19. Click on Add button under Grant permission and search the list based on the Application Role



20. Move the ALLROLES-000 to Selected members.

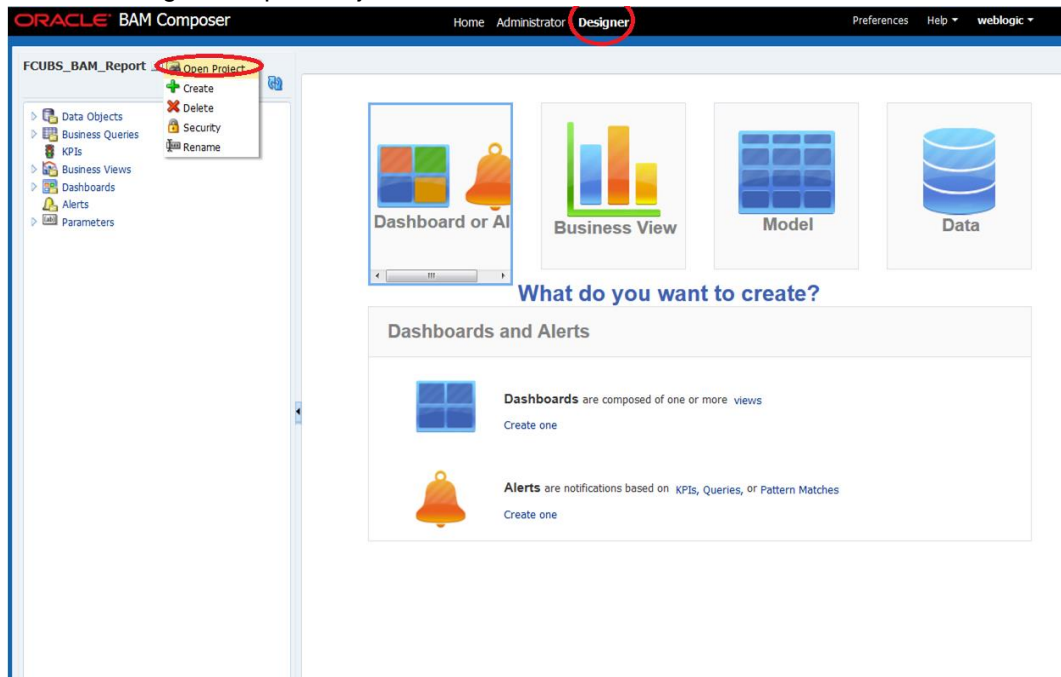


21. Click on read, select and Update check boxes → Click on Save.

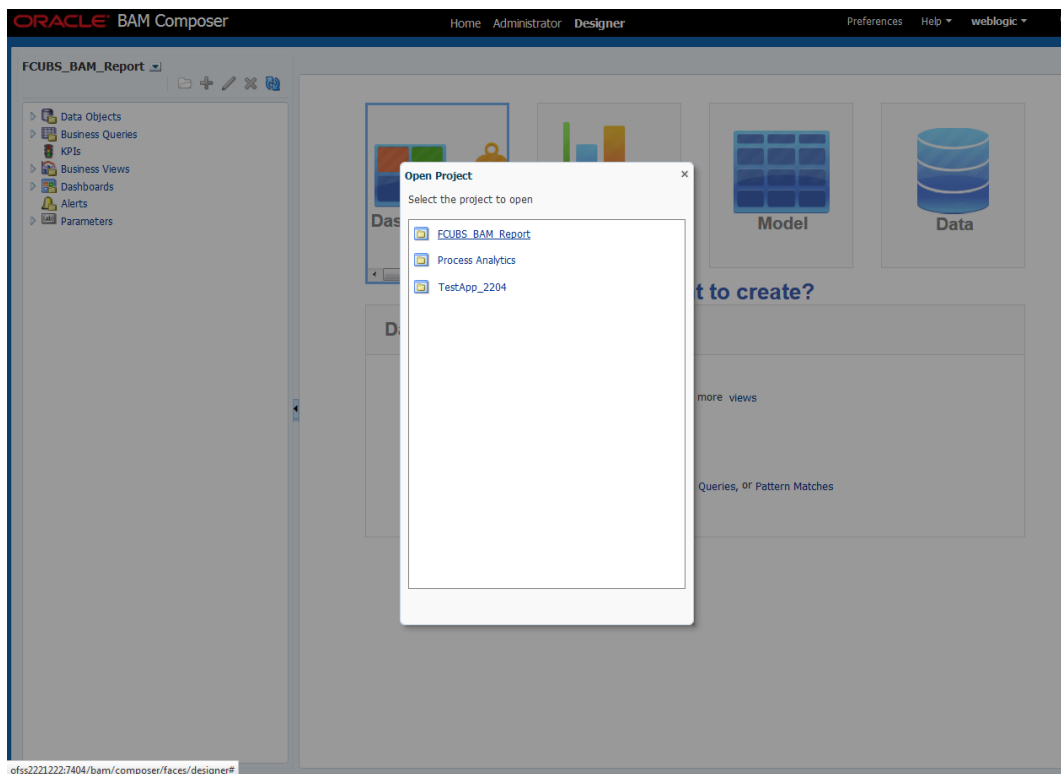


22. Follow the step 17 to 21 for other Data objects also.(cube_instance,wftask_different_stages, ORVW_TRACK_EXPOSURE, ORVW_FACILITY_EXPOSURE, GetUtilsDB, SMTB_USER_TYPE_CONVERSION_VIEW, FCUBSDATAOBJECTS).

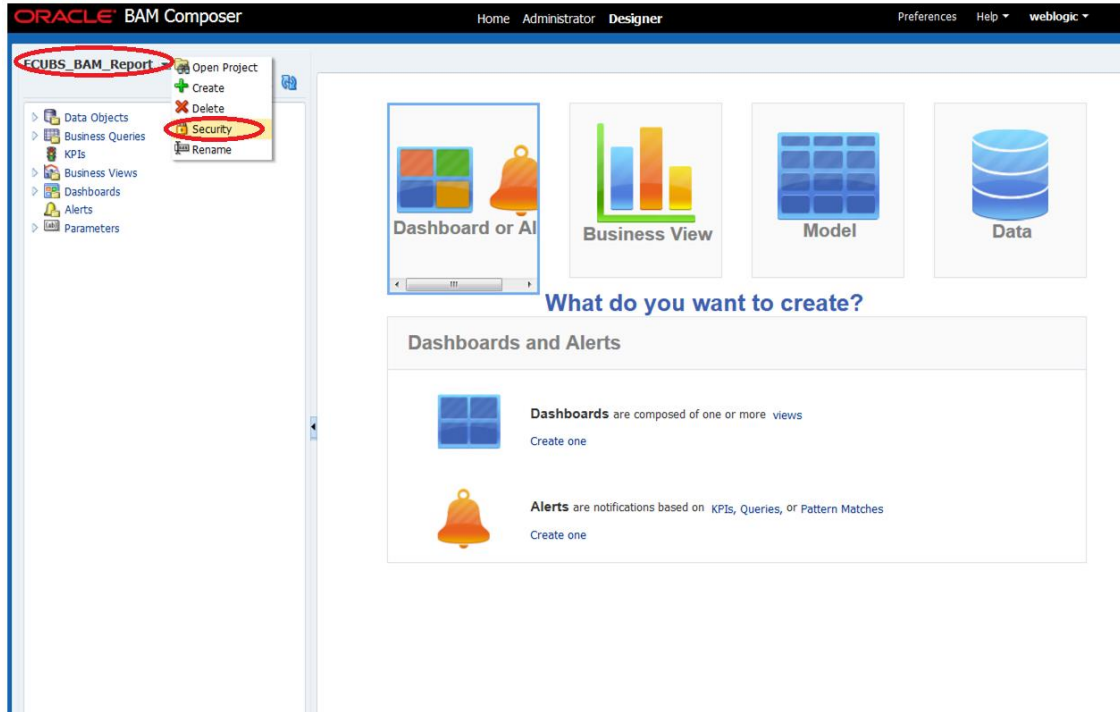
23. Click on Designer →open Project



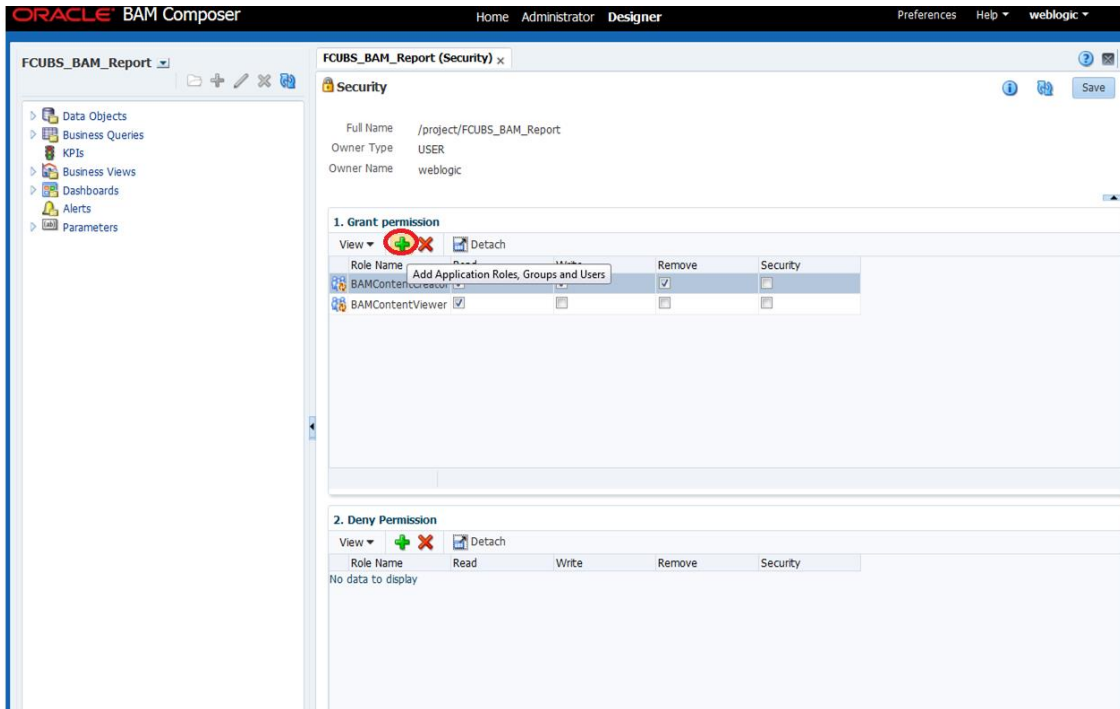
24. Click on FCUBS_BAM_report

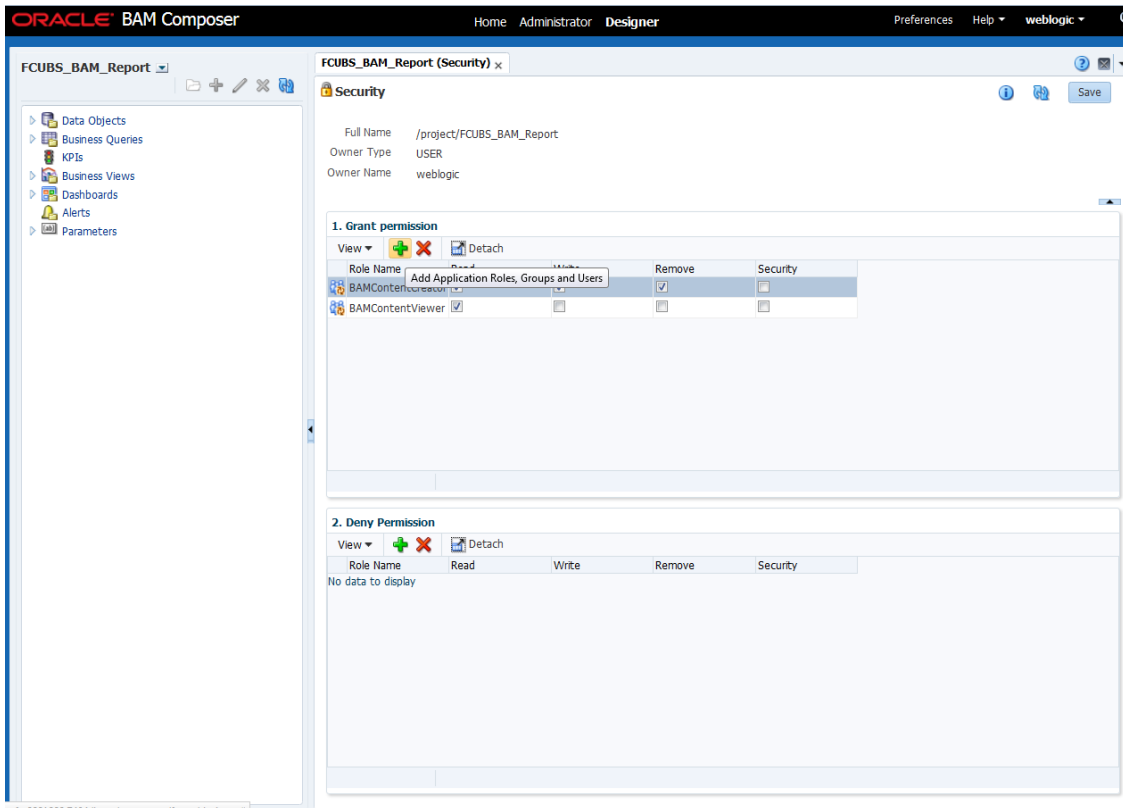


25. click on FCUBS_BAM_Report →Security

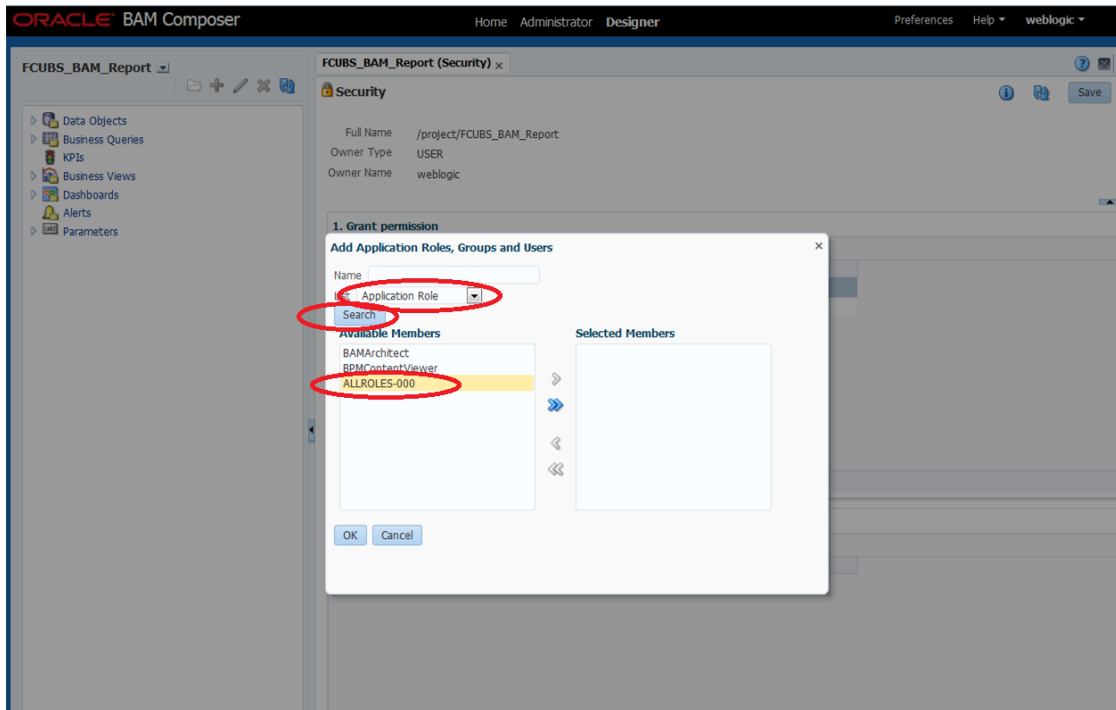


26. Click on ADD button Under Grant Permission.

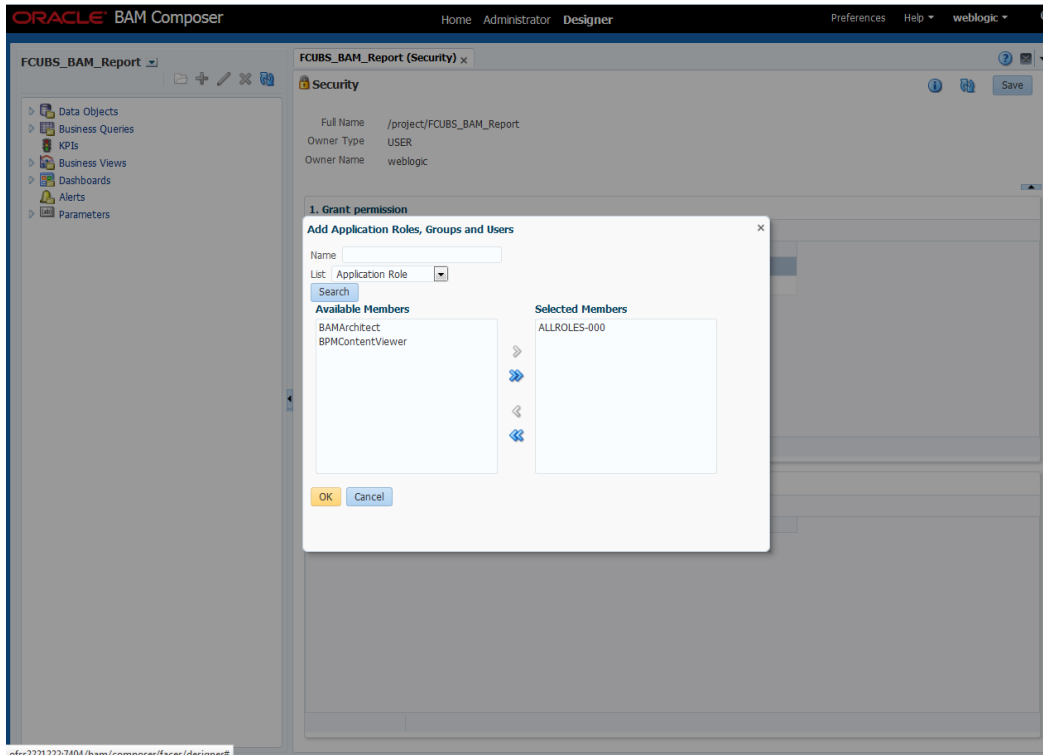




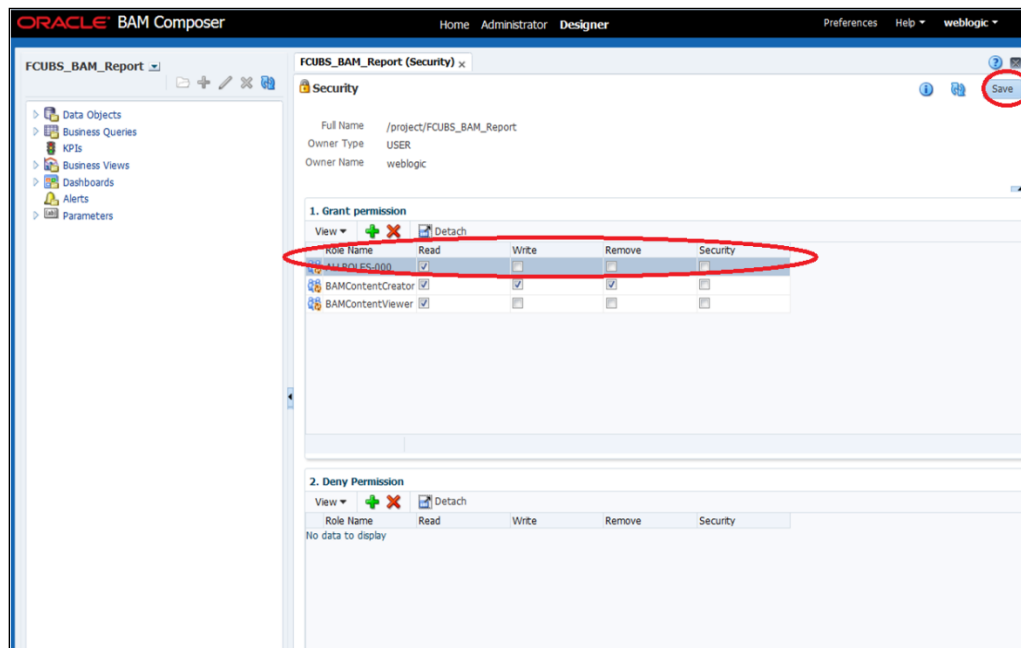
27. Search the List based on the Application Roles and Select the ALLROLES-000



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



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



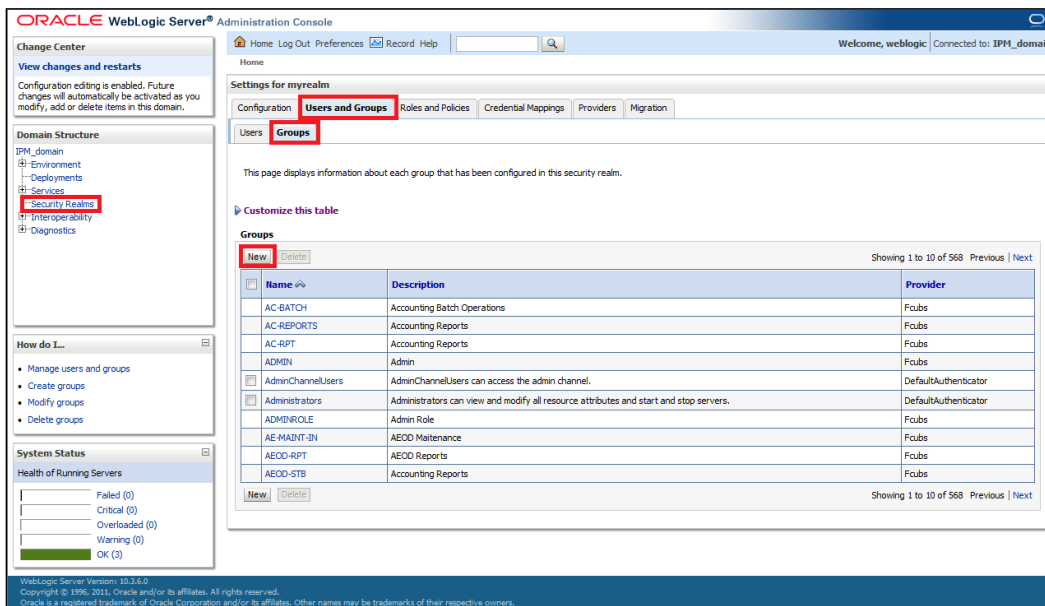
1.2.9 IPM configuration to edit the document

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

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

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

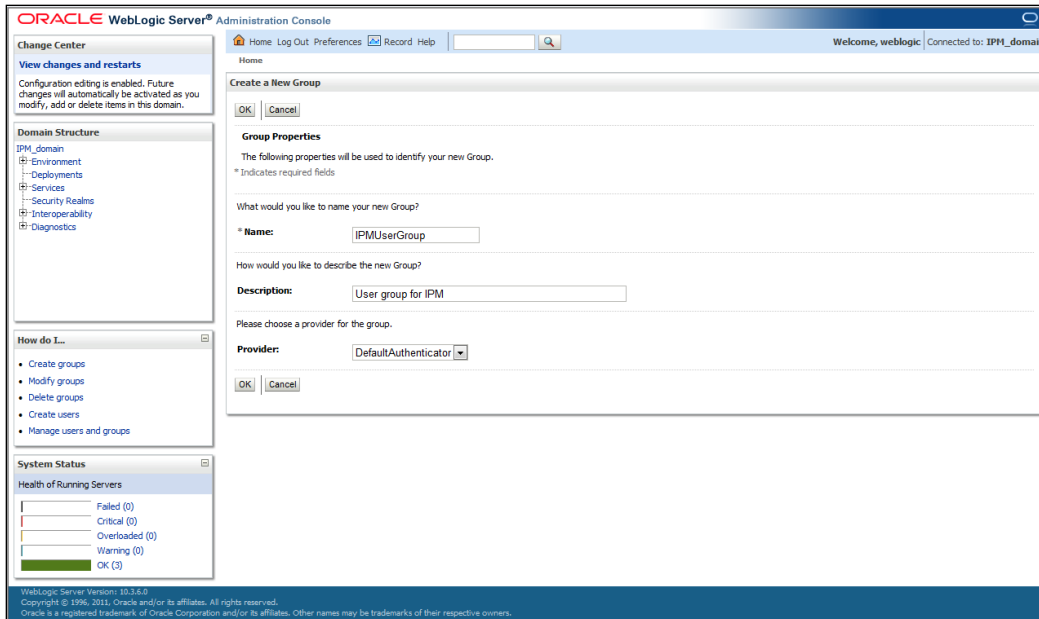
3. After adding the custom authenticator,
 - Navigate to security realms >my realm > Users and Groups > Groups.
 - Click on the New button.



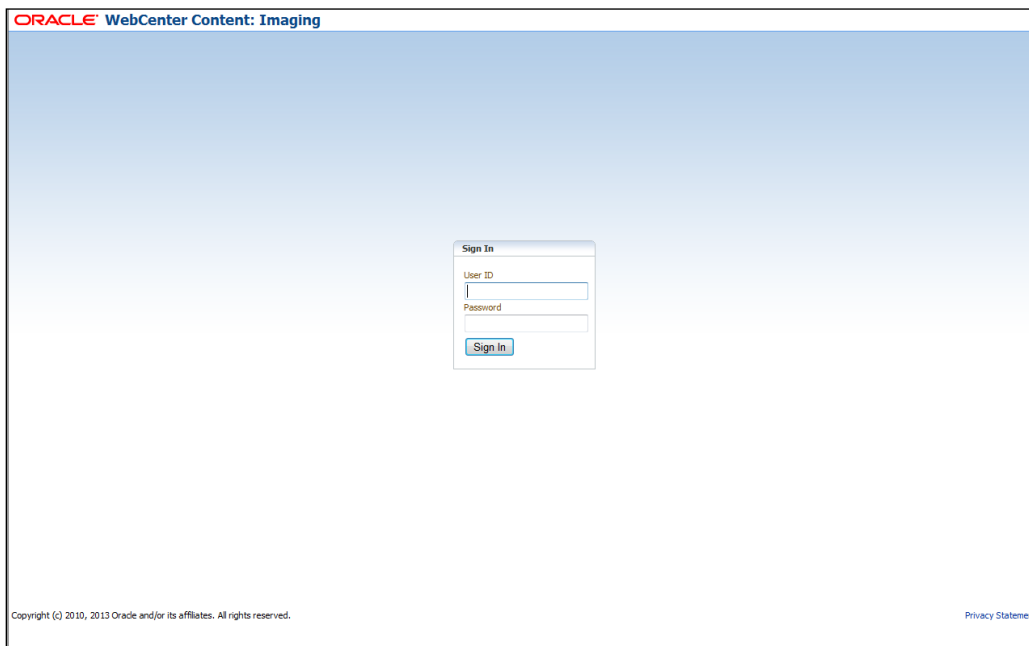
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Groups' sub-tab is selected. Below the navigation, there is a table of configured groups. The table has columns for 'Name', 'Description', and 'Provider'. The 'New' button is highlighted in red.

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

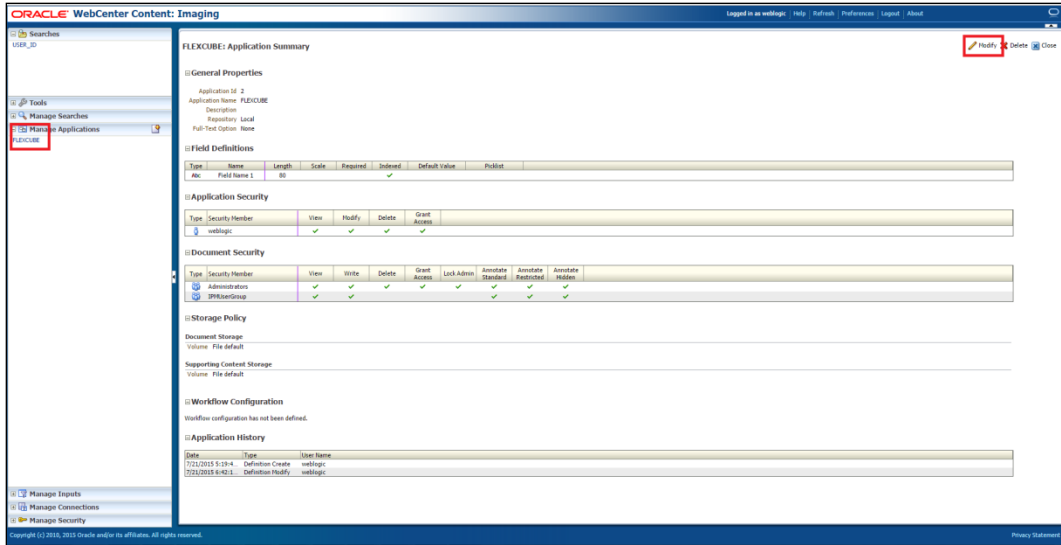
4. After Clicking on the new button,
 - Enter the name as “IPMUserGroup”
 - Description for it (optional)
 - And select the authenticator as “DefaultAuthenticator”
 - And then click “Ok”



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

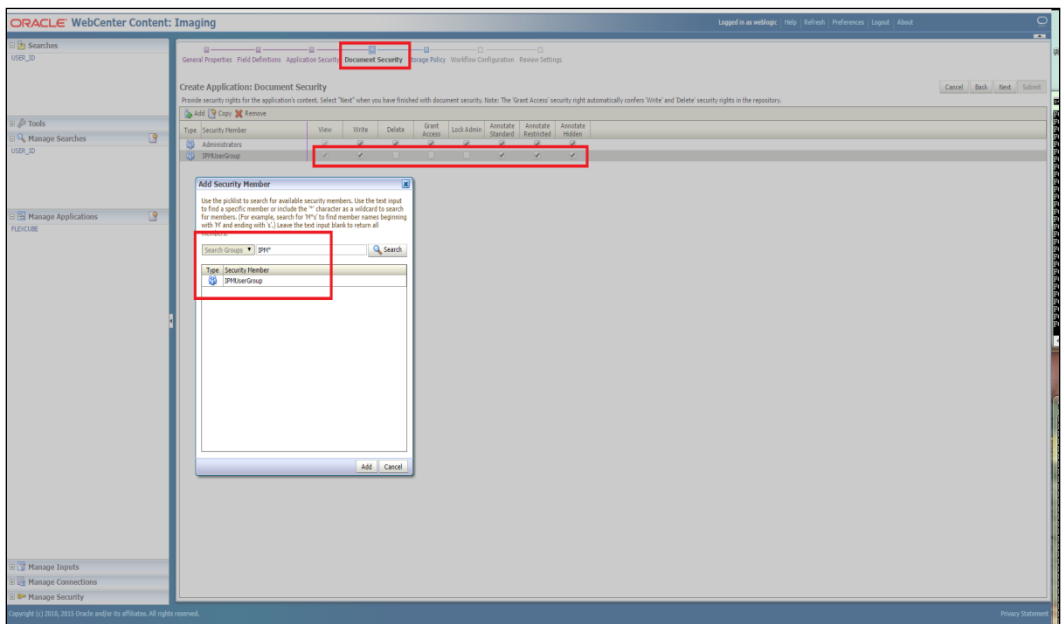


- a. Navigate to Manage Applications
- b. Click on the FLEXCUBE
- c. Then click on the modify on the right pane



6. After clicking on the modify button,

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

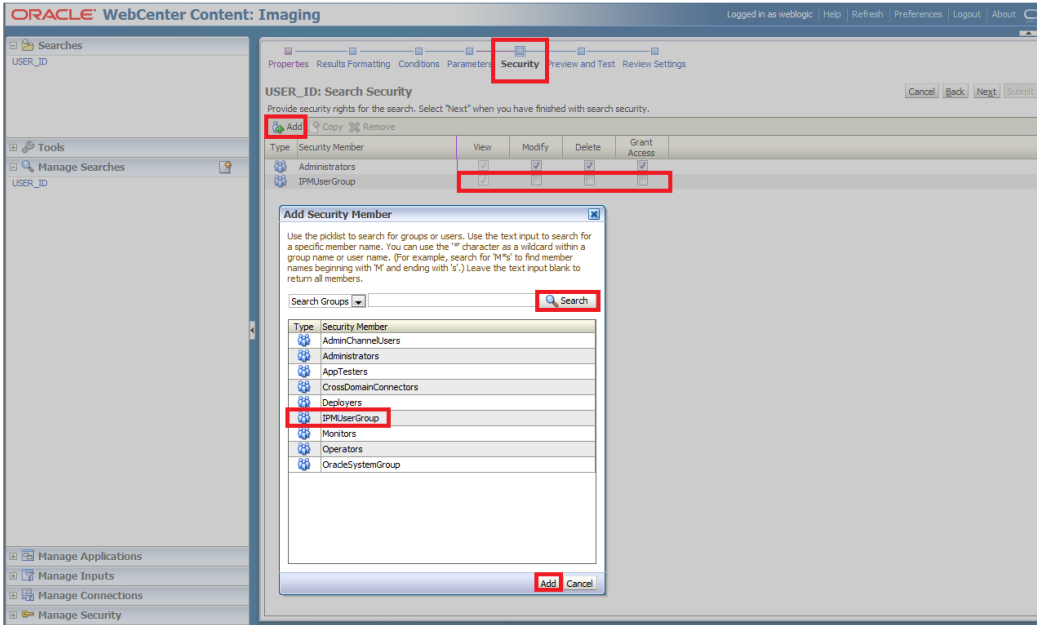


7. After clicking on the submit button,
 - a. Navigate to Manage Searches
 - b. Click on the available search (ex: USER_ID in this doc)
 - c. Click on the modify

The screenshot shows the Oracle WebCenter Content: Imaging interface. The left sidebar has a 'Tools' menu with 'Manage Searches' highlighted. The main content area is titled 'USER_ID: Search Summary' and contains several sections:

- Properties:** Search Name: USER_ID, Description, Instructions, Maximum Search Results: 0
- Results Formatting:** A table with columns: Source Application, DOCID, Document Creation Date, Document Created By, Document Batch Id, Document Id. Two rows are shown: one for 'DOCID' and one for 'FLEXCUBE'.
- Conditions:** Application: FLEXCUBE. A table with columns: Field, Operator, Value, Conjunction. One row is shown: Document Created, Contains, Parameter - Document Created By.
- Parameters:** A table with columns: Parameter Name, Prompt Text, Operator Text, Default Value, Picklist, Required, Read Only. One row is shown: Document Created, Document Created, Contains.
- Security:** A table with columns: Type, Security Member, View, Modify, Delete, Grant Access. Two rows are shown: Administrators and IPMUserGroup, both with checkmarks in the View, Modify, and Delete columns.
- Audit History:** A table with columns: Date, Type, User Name. Five rows are shown, all with Date: 7/2/2014 and Type: Definition Create or Definition Modify, and User Name: ARU1 or weblogic.

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’

- 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>
```

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

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



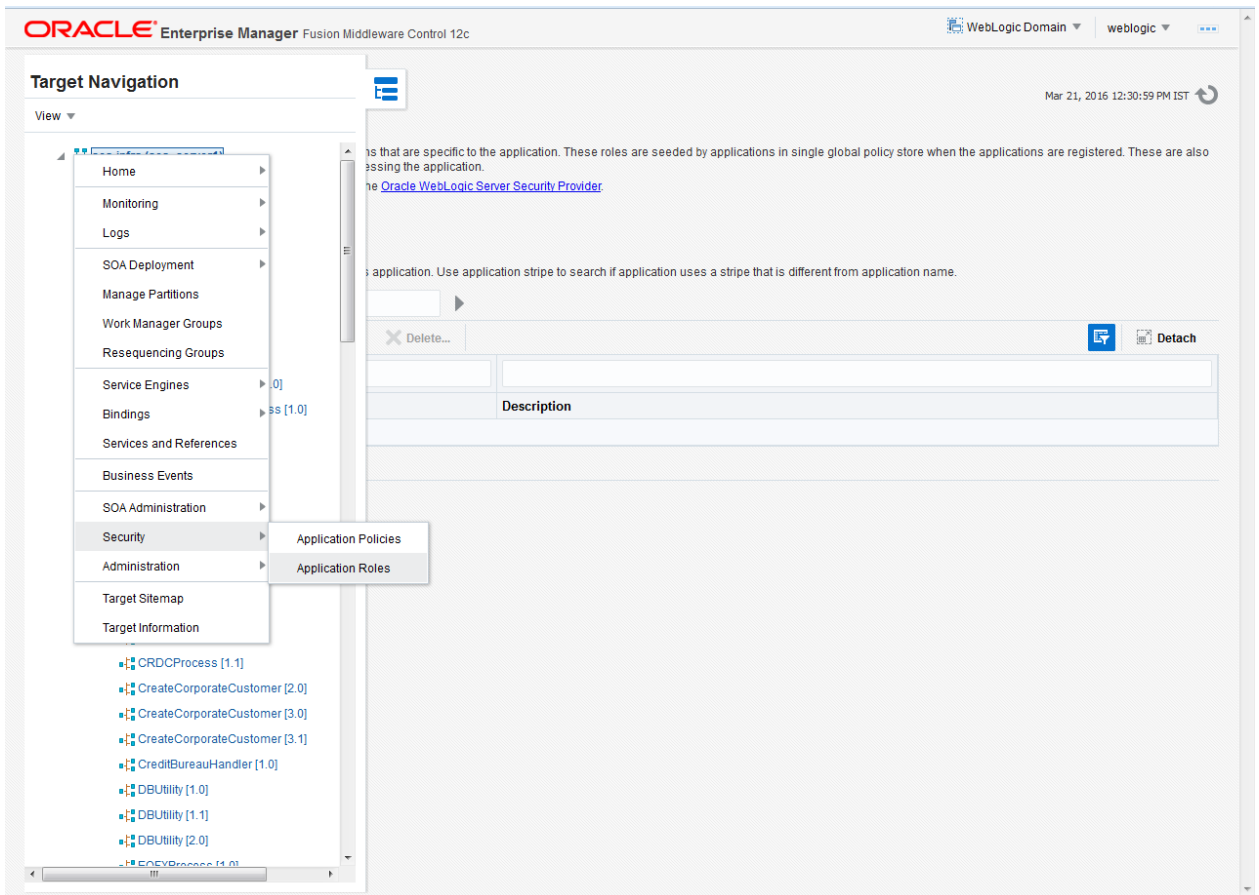
Make sure that the JNDI (jdbc/fcjddevDS) matches the value given during property file creation.

- 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.

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

soa-infra | SOA Infrastructure

Mar 21, 2016 12:30:59 PM IST

Application Roles

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

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

Policy Store Provider

Search

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

Role Name Starts With

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

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

10.184.133.168:7401/em/faces/as/security/appRolesMain?type=oracle_soainfra&target=/Domain_soa_domain/soa_domain/soa_server1/soa-infra#

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

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

soa-infra | SOA Infrastructure

Mar 21, 2016 12:30:59 PM IST

Application Roles

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

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

Policy Store Provider

Search

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

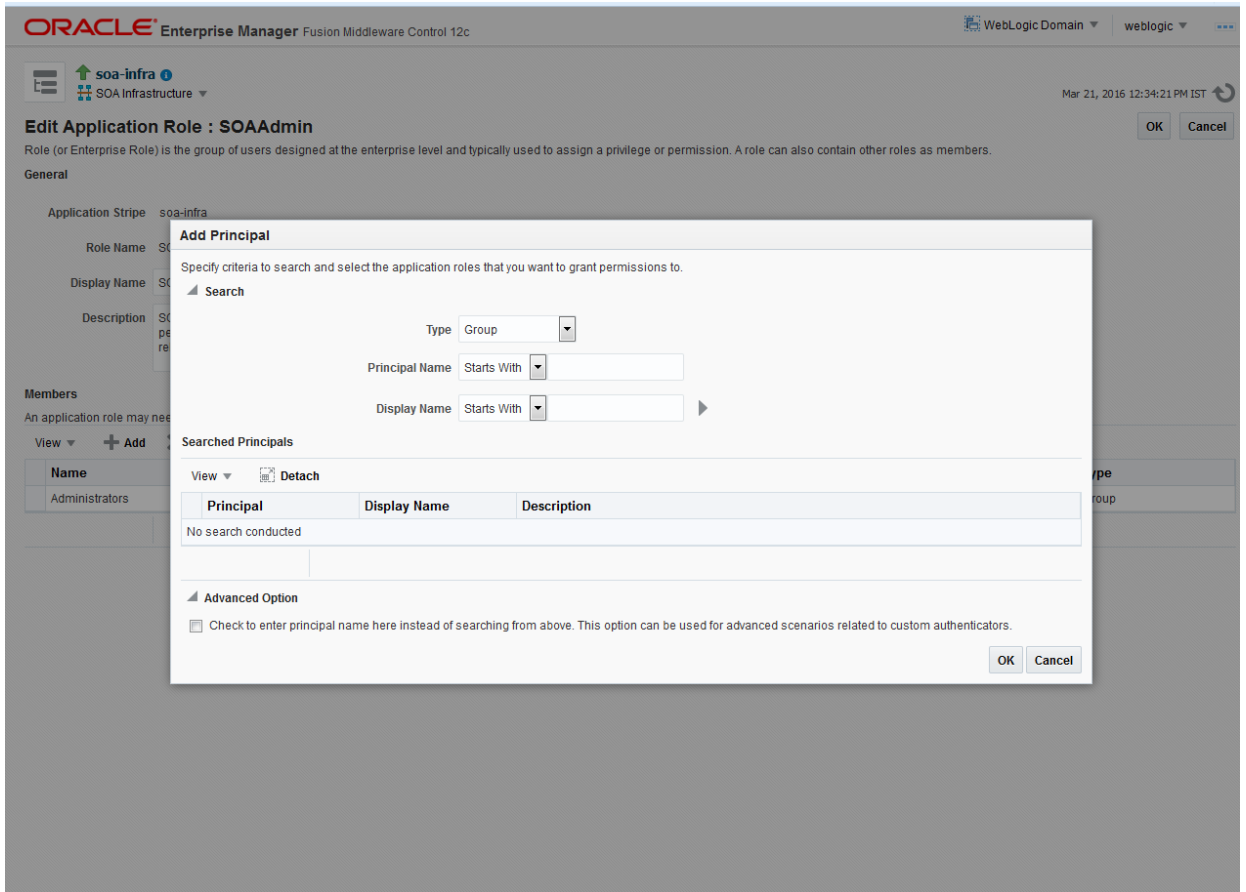
Role Name Starts With

View Create... Create Like... Edit... Delete...

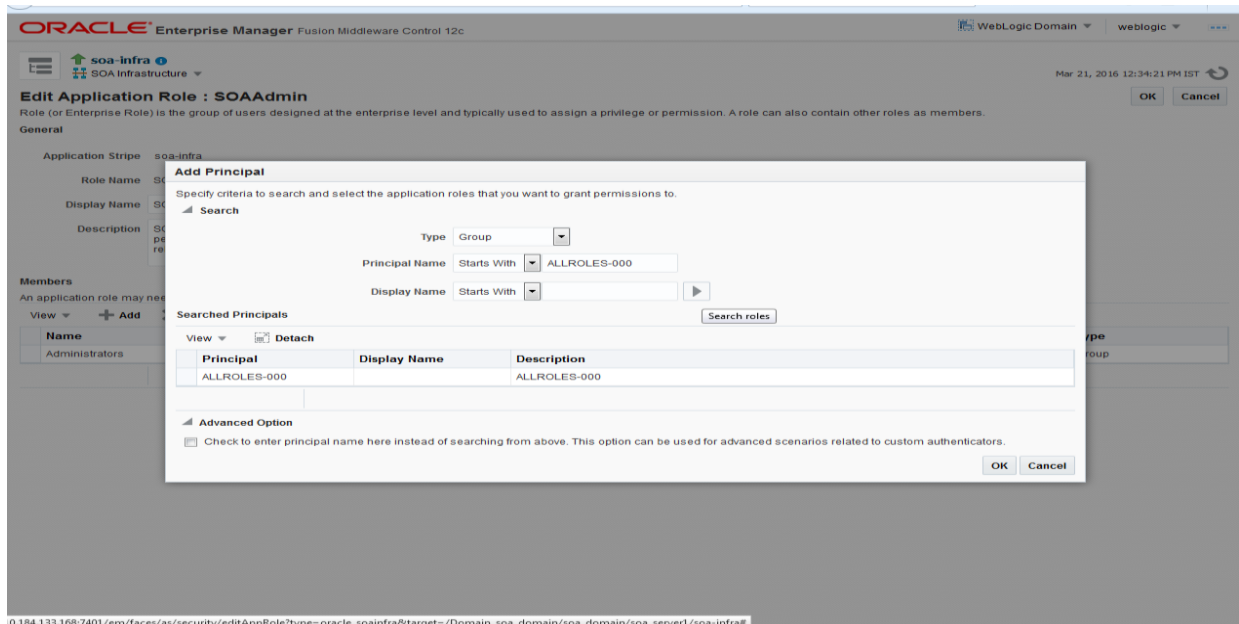
Edit the selected application role

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

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



- Provide the principal name as (EX:ALLROLES-000) Param_val which is mapped to the OR_ADMINROLE in the cstb_param table and search the role. Click on ok.



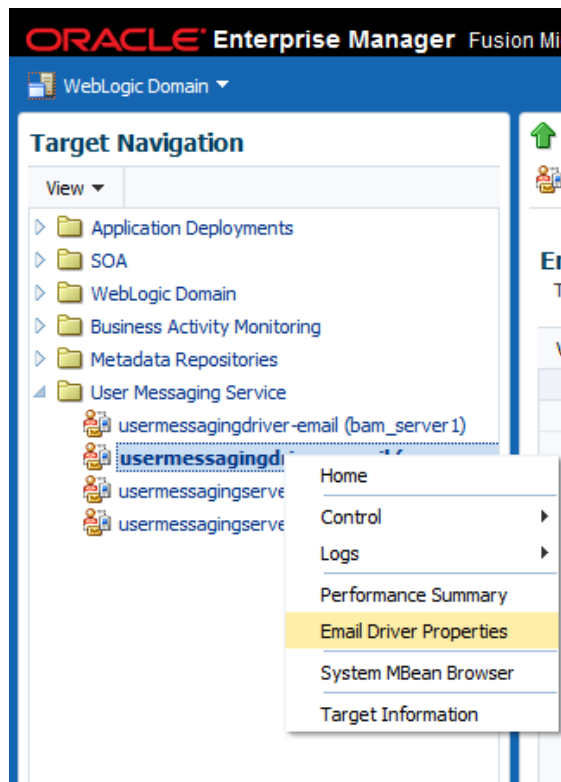
0.184.133.168:7401/em/faces/as/security/editAppRole?type=oracle_soainfra&target=/Domain_soa_domain/soa_domain/soa_server1/soa-infra#

6. Click Ok .

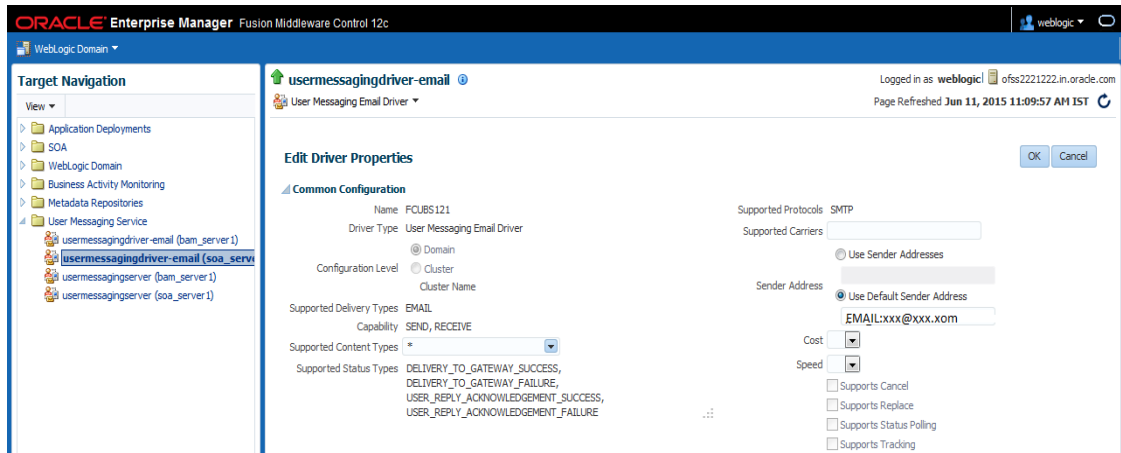
1.2.11 Email Driver Configuration

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

1. Login to EM console
2. Navigate to User Messaging Service
3. Right click usermessagingdriver-email (soa_server1)
4. Click on Email Driver Properties



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



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

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

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

9. Enter the Outgoing mail server hostname or IP

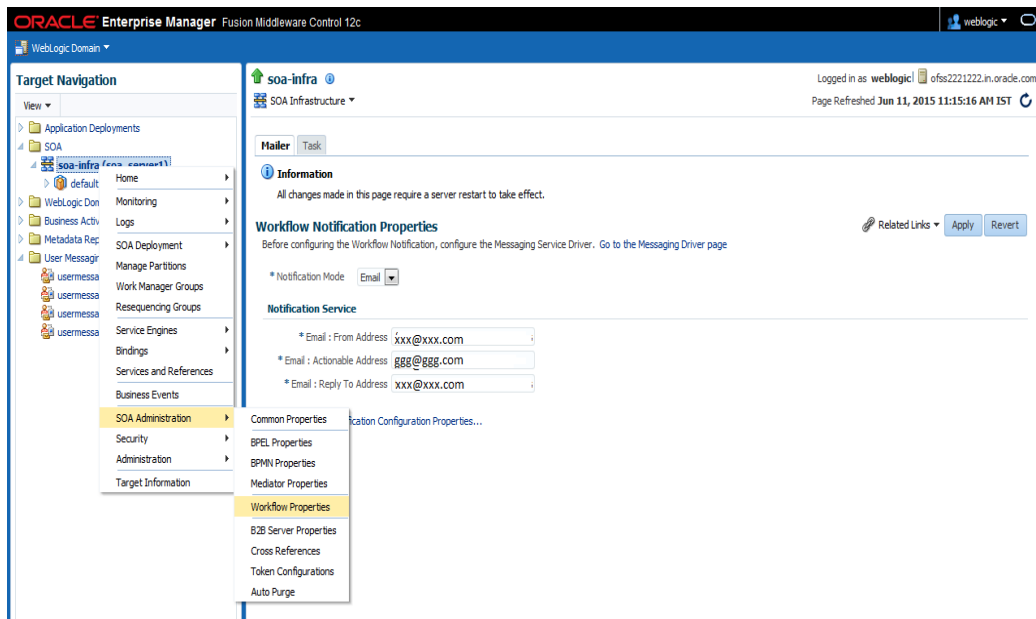
10. Enter the outgoing mail server port

11. Enter the outgoing default from address

12. Enter the Outgoing user name and password if required

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

13. Navigate to SOA Administration ->Workflow Properties



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

1.2.12 TimeOut Settings for BPEL

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

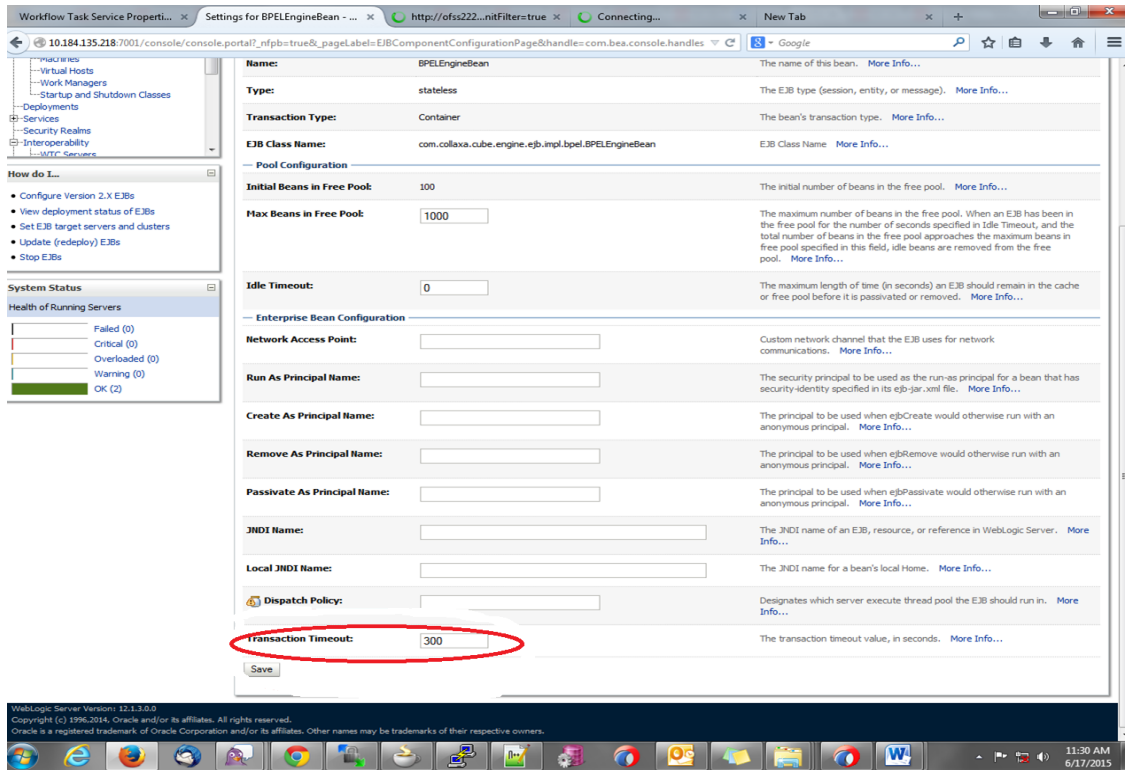
The screenshot displays the Oracle WebLogic Server Administration Console interface. The browser address bar shows the URL: 10.184.135.218:7001/console/console.portal?_nfpb=true&_pageLabel=HomePage1. The console header includes the Oracle logo, 'WebLogic Server Administration Console 12c', and user information: 'Welcome, admin | Connected to: AlphaDomain'. The breadcrumb trail is: Home > AlphaDomain > Summary of Servers > AlphaDomain > Summary of Servers > Summary of Deployments > soa-infra > BPELEngineBean. The main content area is titled 'Home Page' and contains several sections: 'Information and Resources' with helpful tools and general information; 'Domain Configurations' with a tree view of the domain structure; 'Services' listing various services like JMS, Path Services, and XML Registries; 'Interoperability' with WTC Servers and Jolt Connection Pools; 'Diagnostics' with Log Files and Diagnostic Modules; and 'Charts and Graphs' with a Monitoring Dashboard. In the 'Your Deployed Resources' section, the 'Deployments' link is highlighted with a red circle. The left sidebar contains a 'Domain Structure' tree, a 'How do I...' help section, and a 'System Status' section showing the health of running servers.

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

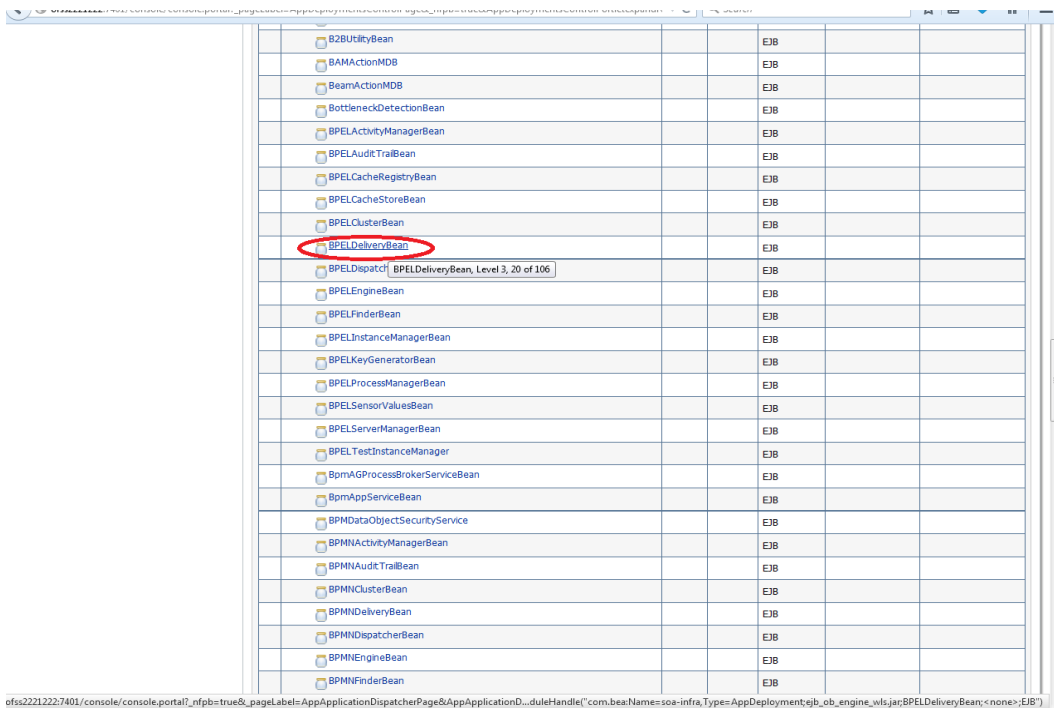
| Name | State | Health | Type | Targets | Deployment Order |
|---|-----------|--------|------------------------|-----------------------------------|------------------|
| oracle.wsm.console.core.view(1.0,12.1.3.0) | Active | | Library | AdminServer | 311 |
| oracle.wsm.seedpolicies(2.0,12.1.3) | Active | | Library | AdminServer, BAMServer, SOAServer | 100 |
| OracleAppsAdapter | Active | OK | Resource Adapter | SOAServer | 328 |
| OracleBamAdapter | Installed | | Resource Adapter | | 329 |
| OracleBPMBCServerApp | Active | OK | Enterprise Application | SOAServer | 384 |
| OracleBPMComposerRolesApp | Active | OK | Enterprise Application | SOAServer | 382 |
| OracleBPMProcessRolesApp | Active | OK | Enterprise Application | SOAServer | 381 |
| OracleBPMWorkspace | Active | OK | Enterprise Application | SOAServer | 383 |
| oracl18n-adf(11.1.1.1.1.0) | Active | | Library | AdminServer, BAMServer, SOAServer | 100 |
| owasp.esapi(2.0,12.1.3) | Active | | Library | AdminServer, BAMServer, SOAServer | 100 |
| SAPAdapter | Installed | | Resource Adapter | | 335 |
| SimpleApprovalTaskFlow | Active | OK | Enterprise Application | SOAServer | 386 |
| soa-infra | Active | OK | Enterprise Application | SOAServer | 350 |
| soa-webapps | Active | OK | Enterprise Application | SOAServer | 360 |
| soa.em | Active | | Library | AdminServer | 100 |
| SocketAdapter | Installed | | Resource Adapter | | 326 |
| state-management-provider-memory-rar-12.1.3 | Active | OK | Resource Adapter | AdminServer, BAMServer, SOAServer | 100 |
| UIX(11,12.1.3.0.0) | Active | | Library | AdminServer, BAMServer, SOAServer | 100 |

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

| | |
|--|-----|
| B2BInstanceMessageBean | EJB |
| B2BIntegratorBean | EJB |
| B2BMetadataUtilityBean | EJB |
| B2BStarterBeanWLS | EJB |
| B2BUtilityBean | EJB |
| BAMActionMDB | EJB |
| BeamActionMDB | EJB |
| BottleneckDetectionBean | EJB |
| BPELActivityManagerBean | EJB |
| BPELAuditTrailBean | EJB |
| BPELCacheRegistryBean | EJB |
| BPELCacheStoreBean | EJB |
| BPELClusterBean | EJB |
| BPELDeliveryBean | EJB |
| BPELDispatcherBean | EJB |
| BPELEngineBean | 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 configuration page for an EJB in the Oracle WebLogic Server console. The 'Transaction Timeout' field is highlighted with a red circle and contains the value '1800'. The page includes sections for Pool Configuration and Enterprise Bean Configuration.

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

Save

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 interface. The main content area is titled "Settings for dev_domain" and has several tabs: Configuration, Monitoring, Control, Security, Web Service Security, and Notes. Under the "Configuration" tab, there are sub-tabs for General, JTA, JPA, EJBs, Web Applications, Logging, and Log Filters. The "JTA" sub-tab is selected. A "Save" button is visible at the top left of the configuration area. Below the "Save" button, there is a text instruction: "Use this page to define the Java Transaction API (JTA) configuration of this WebLogic Server domain." The "Timeout Seconds" field is highlighted with a red oval and contains the value "3600". Other fields include "Abandon Timeout Seconds" (86400), "Before Completion Iteration Limit" (10), "Max Transactions" (10000), "Max Unique Name Statistics" (1000), and "Checkpoint Interval Seconds" (300). There is also a checkbox for "Write recovery logs when determiners configured" and a "Determiners" text area. At the bottom, there is a checkbox for "Forget Heuristics".

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) - ... x Settings for AlphaDomain - Alp... x http://ofss222...nitFilter=true x Connecting... x New Tab x

10.184.135.218:7001/em/faces/ai/soa/infra?Adf-Page-Id=11&target=%2FDomain_AlphaDomain%2FAlphaDomain%2Fsoa-server%2Fsoa-infr

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain

soa-infra (5) | Home | Monitoring | Amend | Logs | Amend | SOA Deployment | Manage Partitions | BIPULH | Work Manager Groups | BPCLC | Resequencing Groups | BPCLC | Service Engines | bpelcv | Bindings | CIBLP | Services and References | CloseF | Business Events | Closer | SOA Administration | Common Properties | COLLA | Security | BPCL Properties | CRDCF | Administration | BPMN Properties | Credit | Target Information | Mediator Properties | Credit | Target Information | Workflow Properties | CRPClosureProcess [1.0] | CRPProcess [1.0] | CRPProcess [2.0] | B2B Server Properties | CurrentAccountCreationWithCreditFacility | Cross References | DBUtility [1.0] | Token Configurations | DBUtility [2.0] | Auto Purge | DisburseFCUBSORRetailLoanContract [1.0] | EQFXProcess [1.0] | EXPNProcess [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 | SOA Infrastructure | 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 | **Business Transaction Faults** | Search

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

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

Composites and Adapters Availability

SOA Runtime Health | SOAServer

soa-infra (SOAServer) | **Initialized Successfully**

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

System Backlogs

Last* 24 Hours

Refresh region to show the latest data.

Messages in Queues:

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

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

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

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain

Change Center Changes Recording

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

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 | RW | 100000 |
| | | | 23 | MaxRecoverAttempt | RW | 2 |
| | | | 24 | MinBPelWait | RW | 2 |
| | | | 25 | objectName | R | oracle.as.soainfra.config.nar |
| | | | 26 | OneWayDeliveryPolicy | RW | async.persist |
| | | | 27 | QualityOfService | RW | DirectWrite |
| | | | 28 | QualityOfServiceAuditStorePolicyUsed | RW | false |
| | | | 29 | QualityOfServiceOneWayDeliveryPol | RW | false |
| | | | 30 | ReadOnly | R | false |
| | | | 31 | RecoveryConfig | RW | javax.management.openmbe |
| | | | 32 | RecurringMaxMessageRaiseSize | RW | 50 |
| | | | 33 | RestartNeeded | R | false |
| | | | 34 | SpecCompliance | RW | suggest |
| | | | 35 | StartupMaxMessageRaiseSize | RW | 50 |
| | | | 36 | StatsLastN | RW | -1 |
| | | | 37 | SyndMaxWaitTime | RW | 45 |
| | | | 38 | SystemMBean | R | false |
| | | | 39 | ValidateXML | RW | false |
| | | | 40 | Version | R | 11.1.0 |
| | | | 41 | Visible | R | true |

Target Navigation

- Application Deployments
- SOA
 - soa-infra (SOAServer)
 - default
 - AmendFCUBSORNFRetailLoanContract [1.0]
 - AmendFCUBSORRetailLoanContract [1.0]
 - AmendRetailLoanContractFCUBSORService [1.0]
 - BIPUtility [1.0]
 - BPelCOLLATProcess [1.0]
 - BPelCRPClosureProcess [1.0]
 - BPelCRPPProcess [1.0]
 - bpelcvprocess [1.0]
 - BPelLimitReview [1.0]
 - CIBLProcess [1.0]
 - CloseFCUBSORRetailLoanContract [1.0]
 - CloseRetailLoanContractFCUBSORService [1.0]
 - COLLATProcess [1.0]
 - CRDCProcess [1.0]
 - CreditBureauBPel [1.0]
 - CreditBureauHandler [1.0]
 - CRPClosureProcess [1.0]
 - CRPPProcess [1.0]
 - CRPPProcess [2.0]
 - CurrentAccountCreationWithCreditFacility [1.0]
 - DBUtility [1.0]
 - DBUtility [2.0]
 - DisburseFCUBSORRetailLoanContract [1.0]
 - EQFXProcess [1.0]
 - EXPNProcess [1.0]
 - ExternalValuation [2.0]
 - InitiateFCUBSORRetailLoanPayment [1.0]
 - InitiateKYCheckFCUBSORService [1.0]
 - InitiateRetailLoanContractFCUBSORService [1.0]
 - InitiateRetailLoanPaymentFCUBSORService [1.0]
 - InitiateRiskEvaluationFCUBSORService [1.0]
 - KYCCheck [2.0]
 - KYCCorporateReview [2.0]

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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