

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

1.1 Introduction

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

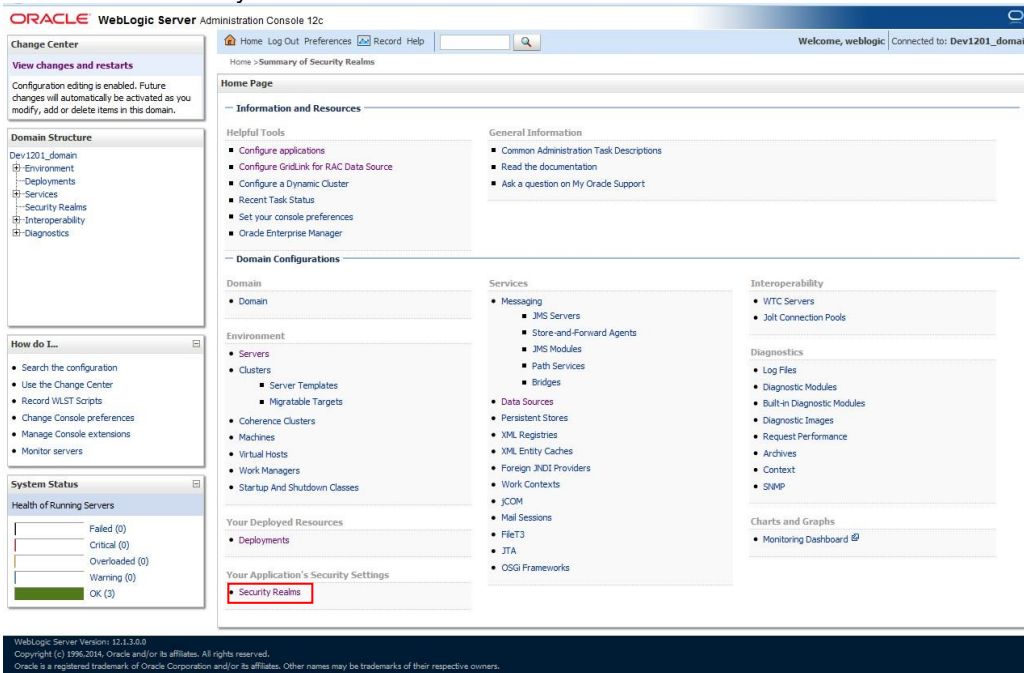
1.2 Integrating Oracle FLEXCUBE UBS and BPEL

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

1.2.1 Custom Provider Configuration

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

1. Along with FCUBS Ear file, Installer creates FCUBSAuthenticationProvider.jar file inside the BPELbuild folder.
 - a. Copy this file to the following path on the application server host
<ORACLE_HOME>\wlserver\server\lib\mbeantypes .
2. Restart the Admin Server.
3. Login to the Console.
4. Click on Security Realms.



5. Click on myrealm.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: Dev1201_domain

Change Center

View changes and restarts

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

Domain Structure

- Dev1201_domain
 - Environment
 - Deployments
 - Services
 - Security Realms**
 - Interoperability
 - Diagnostics

How do I...

- Configure new security realms
- Delete security realms
- Change the default security realm

System Status

Health of Running Servers

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

Summary of Security Realms

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

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

Customize this table

Realms (Filtered - More Columns Exist)

New Delete Showing 1 to 1 of 1 Previous Next

Name	Default Realm
myrealm	true

New Delete Showing 1 to 1 of 1 Previous Next

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa_server_bpel

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit
Release Configuration

Domain Structure

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

How do I...

- Configure authentication and identity assertion providers
- Configure the Password Validation provider
- Manage security providers
- Set the JAAS control flag
- Re-order authentication providers

System Status

Health of Running Servers as of 6:37 AM

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

Settings for myrealm

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

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

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

Customize this table

Authentication Providers

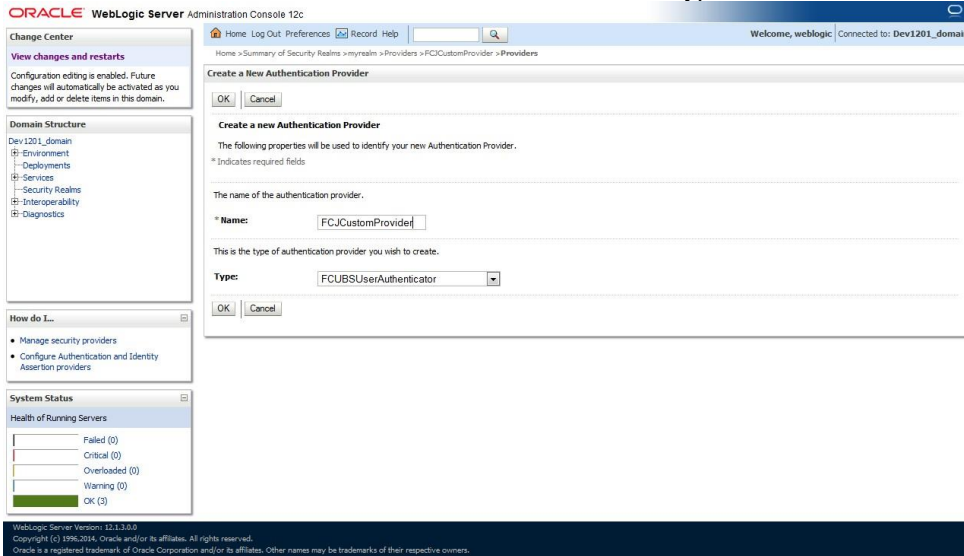
New Delete Reorder Showing 1 to 4 of 4 Previous Next

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

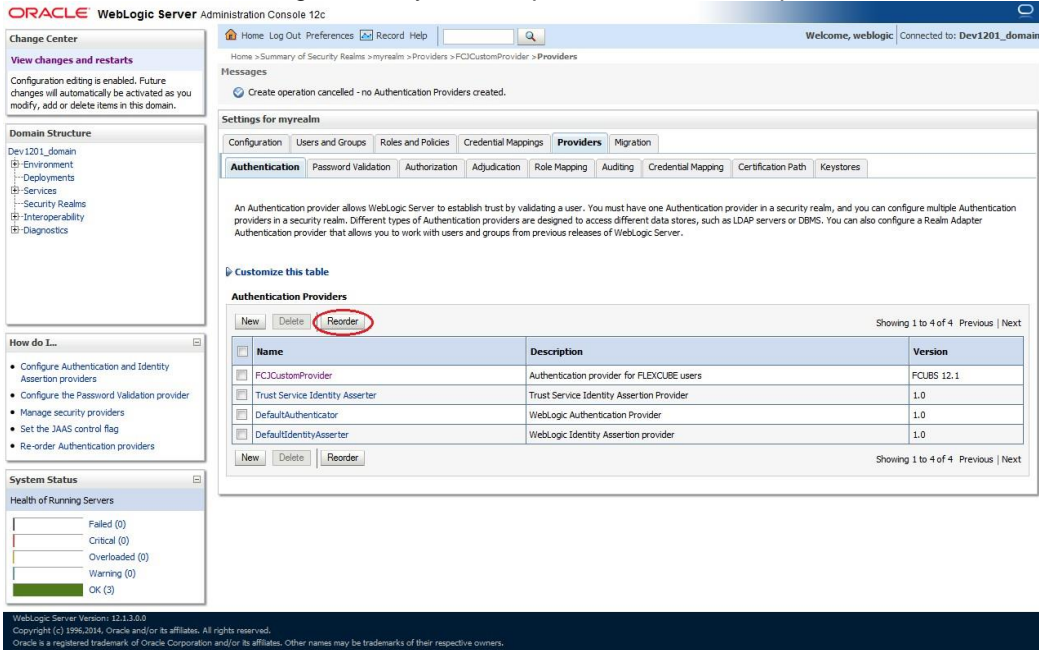
New Delete Reorder Showing 1 to 4 of 4 Previous Next

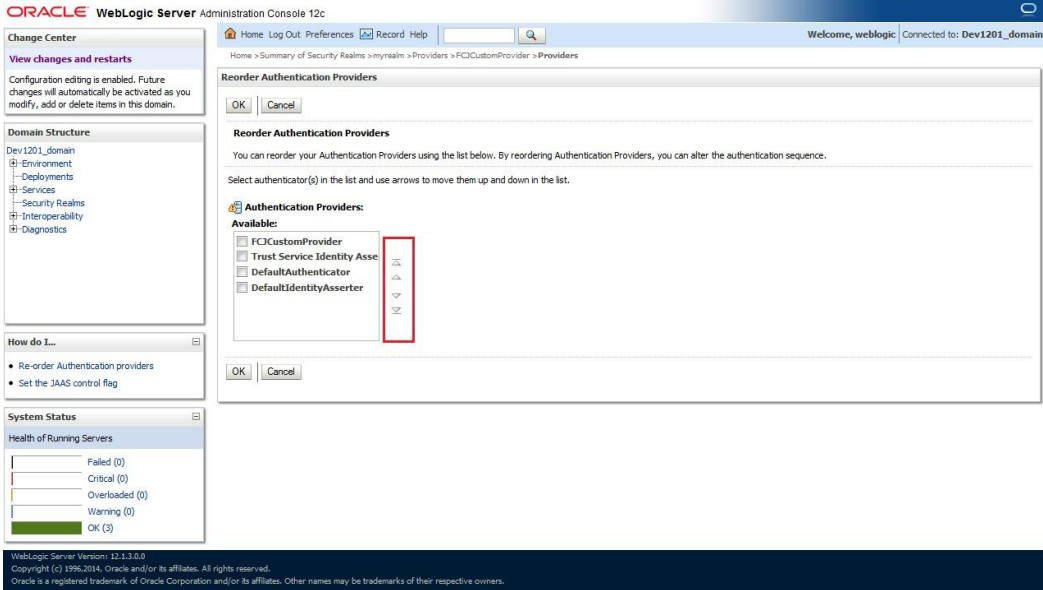
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7. Give Provider name as FCJCustomProvider and type as FCUBSUserAuthenticator.



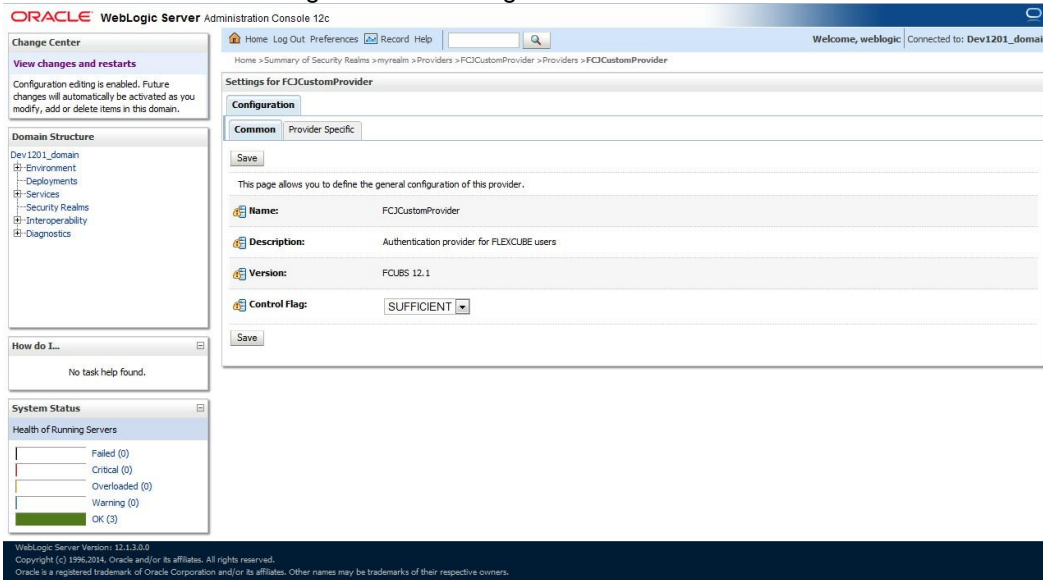
8. Click Reorder to bring the newly created provider to first of all providers and click OK.





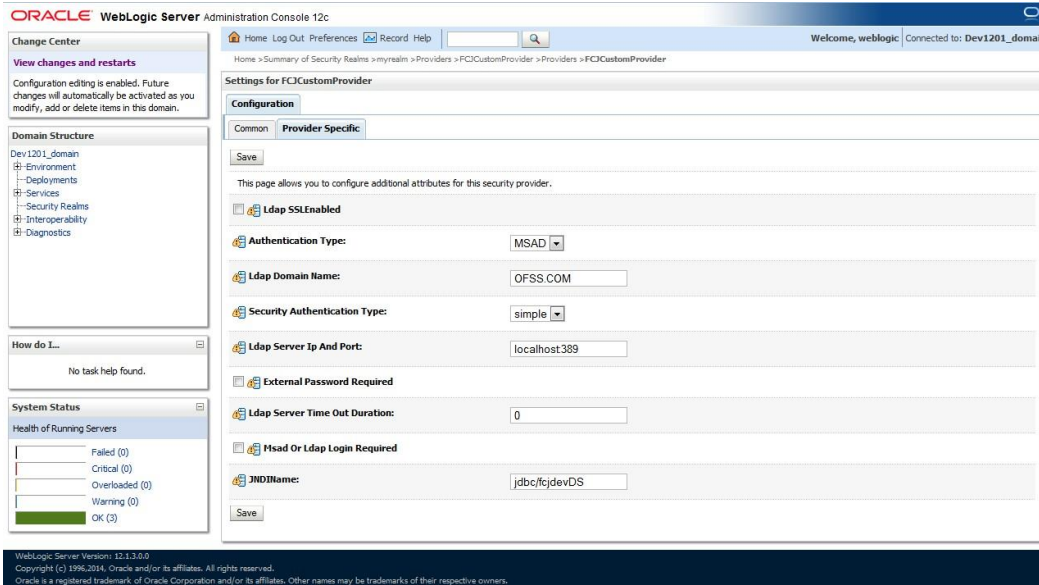
9. Click on FCJCustomProvider.

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:

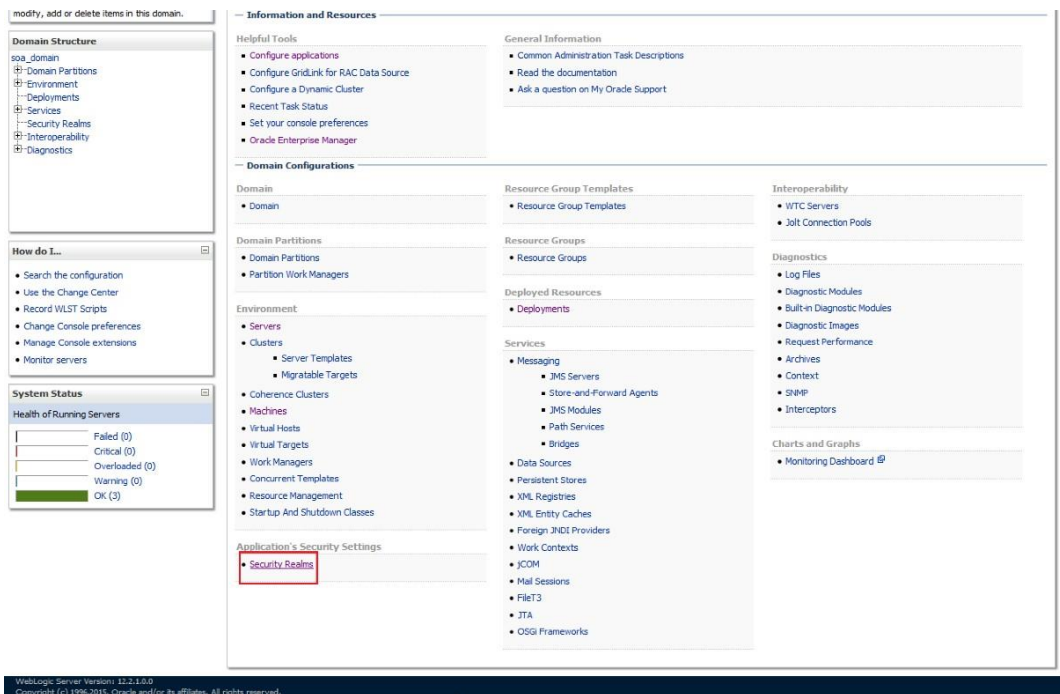
- In case of Multi Entity, all data sources must be created separately for each entity. The JNDI name will be differentiated by suffixing entity name.

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_dom

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

Summary of Security Realms

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

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

Customize this table

Realms (Filtered - More Columns Exist)

Name	Default Realm
myrealm	true

Showing 1 to 1 of 1 Previous | Next

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4. Click on Providers.

ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic | Connected to: soa_dom

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

Settings for myrealm

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

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

Save

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

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

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

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

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

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

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

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

Advanced

Save

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5. Click on New

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Settings for myrealm' and includes a navigation menu with 'Providers' selected. Below this, there's a section for 'Authentication Providers' with a table listing existing providers:

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

At the bottom of the console, the version information is displayed: 'WebLogic Server Version: 12.2.1.0.0 Copyright (c) 1996-2015, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.'

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

The screenshot shows the 'Create a New Authentication Provider' dialog box in the Oracle WebLogic Server Administration Console. The dialog has a 'Name' field containing 'ENTITYID' and a 'Type' dropdown menu set to 'FCUBSUserAuthenticator'. The 'Name' field is highlighted with a red box. The dialog also includes 'OK' and 'Cancel' buttons.

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

Oracle WebLogic Server Administration Console 12c

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

Reorder Authentication Providers

OK | Cancel

Reorder Authentication Providers

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

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

Authentication Providers:

Available:

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

OK | Cancel

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8. Click the Provider that we have created.

Oracle WebLogic Server Administration Console 12c

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

Settings for myrealm

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

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

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

Customize this table

Authentication Providers

New | Delete | Reorder

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

New | Delete | Reorder

Showing 1 to 5 of 5 Previous | Next

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

ORACLE WebLogic Server Administration Console 12c

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

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

Settings for ENTITYYID

Configuration

Common Provider Specific

Save

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

Name: ENTITYYID

Description: Authentication provider for FLEXCUBE users

Version: FCUBS 12.2

Control Flag: SUFFICIENT

Save

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10. Select the provider specific tab .

ORACLE WebLogic Server Administration Console 12c

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

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

Settings for ENTITYYID

Configuration

Common **Provider Specific**

Save

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

Ldap Server Jp And Port: localhost389

JNDIName: jdbc/fcdevDS

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

Hsad Or Ldap Login Required

Authentication Type: MSAD

Save

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

ORACLE WebLogic Server Administration Console 12c

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

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Ldap Server Ip And Port: localhost:389

JNDI Name: **jdbc/fc/devDS**

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSL Enabled

Msad Or Ldap Login Required

Authentication Type: MSAD

Save

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

ORACLE WebLogic Server Administration Console 12c

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

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Ldap Server Ip And Port: localhost:389

JNDI Name: jdbc/fc/devDS

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSL Enabled

Msad Or Ldap Login Required

Authentication Type: MSAD

Save

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

1.2.5 Configuring DBAdapter

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

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

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

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

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

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

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

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

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



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

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

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

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

1.2.6 Configuring JMS Adapter

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

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

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 of existing servers. The table is titled 'JMS Servers (Filtered - More Columns Exist)' and shows 8 servers. The 'Health' column for the last three servers (BPMJMServer, SOAJMServer, and UMSJMServer) shows 'OK' with a green checkmark.

Name	Persistent Store	Target	Current Target	Health
BamAlertEngineJmsServer	BamAlertEngineJmsFileStore	BAMServer	BAMServer	
BamCQServiceJmsServer_BAMServer	BamCQServiceJmsFileStore_BAMServer	BAMServer	BAMServer	
BamReportCacheJmsServer	BamReportCacheJmsFileStore	BAMServer	BAMServer	
BamServerJmsServer_BAMServer	BamServerJmsFileStore_BAMServer	BAMServer	BAMServer	
BPMJMServer	BPMJMSFileStore	SOAServer	SOAServer	OK
SOAJMServer	SOAJMSFileStore	SOAServer	SOAServer	OK
UMSJMServer_auto_1	UMSJMSFileStore_auto_1	BAMServer	BAMServer	
UMSJMServer_auto_2	UMSJMSFileStore_auto_2	SOAServer	SOAServer	OK

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

The screenshot shows the Oracle WebLogic Server Administration Console at the 'Create a New JMS Server' wizard. The 'JMS Server Properties' step is active, where the 'Name' is set to 'FCUBSJMServer' and the 'Persistent Store' is set to 'SOAJMSFileStore'. The 'Domain Structure' tree on the left shows the hierarchy from AlphaDomain down to JMS Servers. The 'System Status' section shows the health of running servers, with 2 servers in an 'OK' state.

3. Select the target as SOA Server →Finish

The screenshot shows the Oracle WebLogic Server Administration Console at the 'Create a New JMS Server' wizard. The 'Select targets' step is active, where the 'Target' is set to 'SOA Server'. The 'Domain Structure' tree on the left shows the hierarchy from AlphaDomain down to JMS Servers. The 'System Status' section shows the health of running servers, with 3 servers in a 'Warning' state.

Oracle WebLogic Server Administration Console 12c

Home > AlphaDomain > Summary of JMS Servers

Messages

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

Summary of JMS Servers

JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them. This page summarizes the JMS servers that have been created in the current WebLogic Server domain.

Customize this table

JMS Servers (Filtered - More Columns Exist)

Name	Persistent Store	Target	Current Target	Health
BanAlertEngine.JMSServer	BanAlertEngine.JMSFileStore	BAMServer	BAMServer	
BanCQService.JMSServer_BAMServer	BanCQService.JMSFileStore_BAMServer	BAMServer	BAMServer	
BanReportCache.JMSServer	BanReportCache.JMSFileStore	BAMServer	BAMServer	
BanServer.JMSServer_BAMServer	BanServer.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

4. Go back to Console → JMS Modules → New

Oracle WebLogic Server Administration Console 12c

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

Home Page

Information and Resources

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

Domain Configurations

Domain

- Domain

Environment

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

Your Deployed Resources

- Deployments

Your Application's Security Settings

- Security Realms

Services

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

Interoperability

- WTC Servers
- Jolt Connection Pools

Diagnostics

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

Charts and Graphs

- Monitoring Dashboard

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

Name	Type
BanAlertEngineJmsSystemModule	System
BanCQServiceJmsSystemResource_BAMServer	System
BanReportCacheJmsSystemModule	System
BanServerJmsSystemResource	System
BPMJMSModule	System
SOAJMSModule	System
LMSAQJMSSystemResource	System
LMSJMSSystemResource	System

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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

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

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

* Indicates required fields

What would you like to name your System Module?

* Name:

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

Descriptor File Name:

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

Location In Domain:

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

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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 JMS system modules
- Configure JMS servers

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

Create JMS System Module
Back Next Finish Cancel

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

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

Targets :

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

Back Next Finish Cancel

WebLogic Server Version: 12.1.3.0.0

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

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ORACLE WebLogic Server Administration Console 12c

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

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

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

Settings for FCUBSJMSModule
Configuration Subdeployments Targets Security Notes

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

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

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

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

Customize this table

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

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

New Delete Showing 0 to 0 of 0 Previous Next

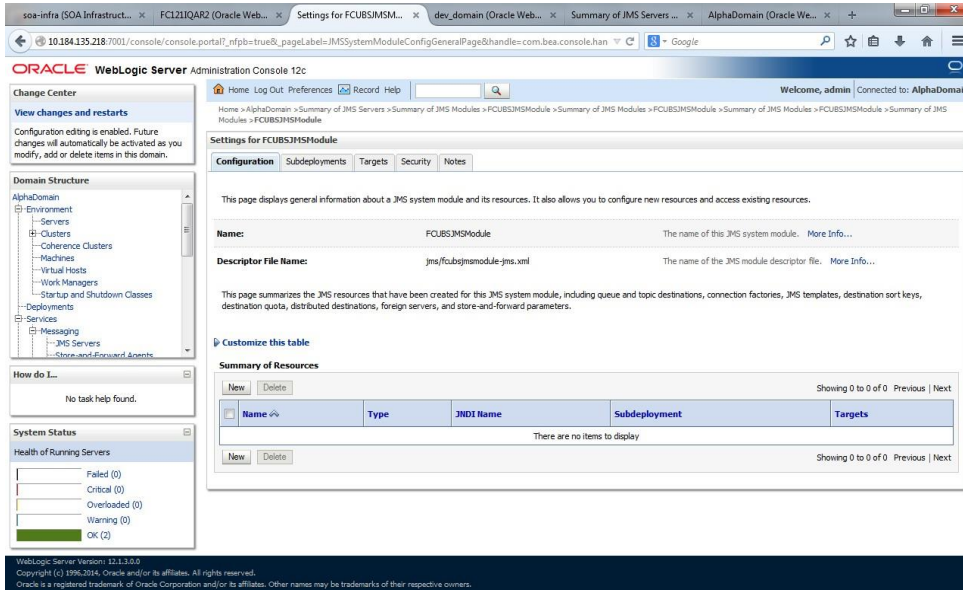
Change Center
View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

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

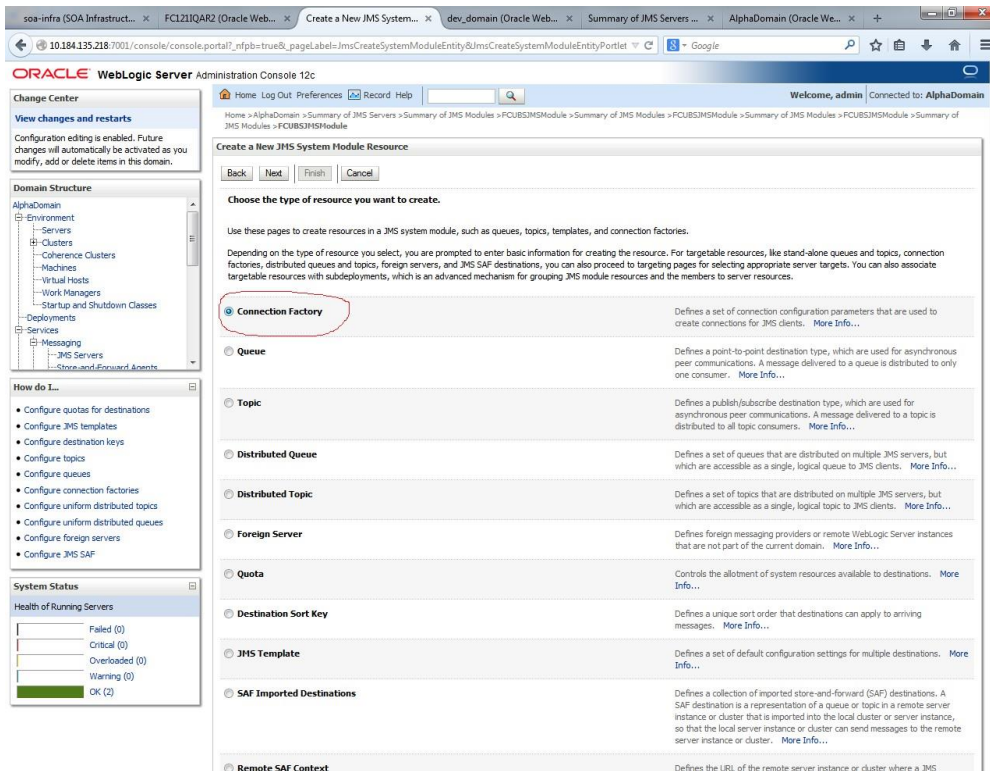
How do I...
No task help found.

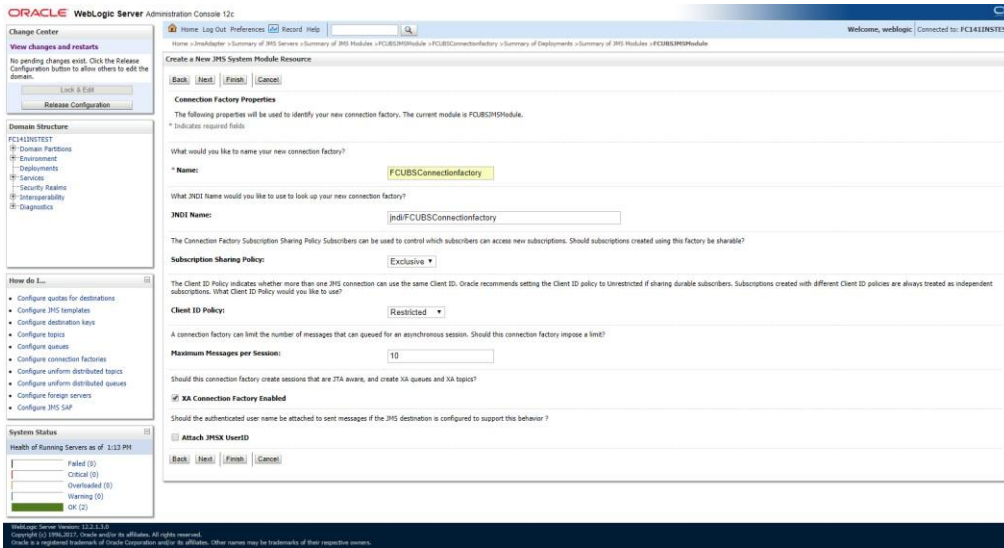
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (2)

6. Go back to JMS Modules→FCUBSJMSModule→New

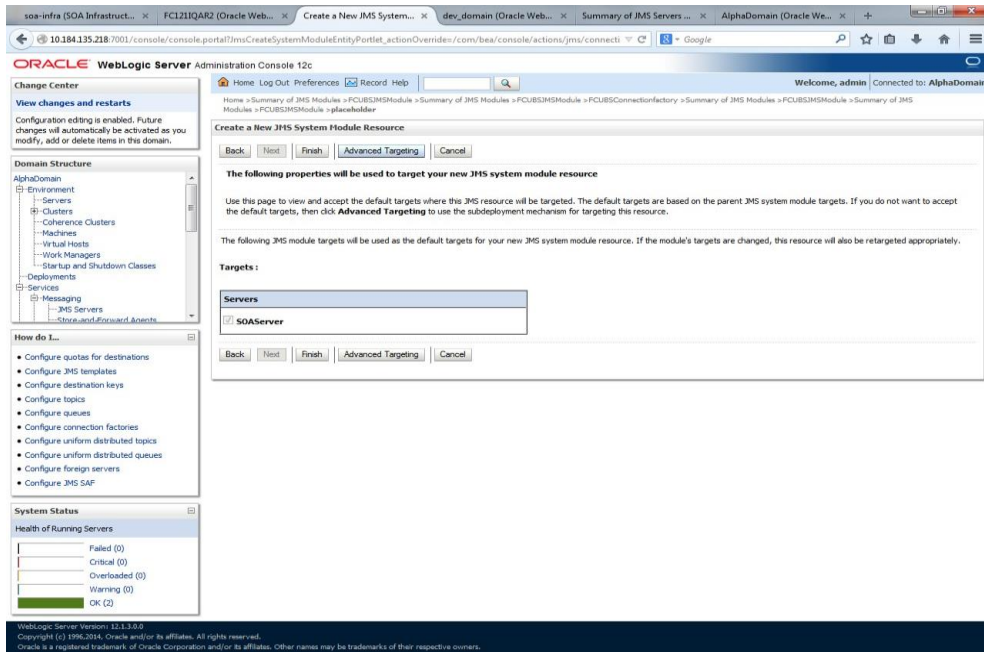


7. Click on Connection Factory→ next→Create the connection Factory with the below Names→Next





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



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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

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ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...

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

System Status
Health of Running Servers

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

Create a New Subdeployment
 OK Cancel

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

Subdeployment Name: FCUBS

OK Cancel

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

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

ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...

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

System Status
Health of Running Servers

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

Create a New JMS System Module Resource
 Back Next Finish Cancel

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

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

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

Subdeployments: FCUBS [Create a New Subdeployment]

What targets do you want to assign to this subdeployment?

Targets:

Servers
 SOAServer

JMS Servers
 BPMJMServer
 FCUBSJMServer
 SOAJMServer
 UMSJMServer_auto_2

Back Next Finish Cancel

soa-infra (SOA Infrastruct... x FCI21IQR2 (Oracle Web... x Settings for FCUBSJMSM... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

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

ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...
No task help found.

System Status
Health of Running Servers

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

Settings for FCUBSJMSModule
 Configuration Subdeployments Targets Security Notes

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

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

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

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

Customize this table

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

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

New Delete Showing 1 to 1 of 1 Previous | Next

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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

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

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.

Summary of Resources

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

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

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
- Queue
- Topic
- Distributed Queue
- Distributed Topic
- Foreign Server
- Quota
- Destination Sort Key
- JMS Template
- SAF Imported Destinations
- Remote SAF Context
- SAF Error Handling

[Back](#) [Next](#) [Finish](#) [Cancel](#)

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10. Create Queue with Name NOTIFY_DEST_QUEUE and JNDI name as jms/NOTIFY_DEST_QUEUE → select the sub deployment which we have created earlier → Next → Finish

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10.184.135.218:7001/console/console.portal?ms>CreateSystemModuleEntryPortlet.actionOverride=/com/bean/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

Change Center

View changes and restarts

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

Domain Structure

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

How do I...

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

System Status

Health of Running Servers

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

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

10.184.135.218:7001/console/console.portal

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"/>	BPHJMSServer
<input checked="" type="radio"/>	FCUBSJMSServer
<input type="radio"/>	SOAJMSServer
<input type="radio"/>	UHSJMSServer_auto_2

Back Next Finish Cancel

Change Center

View changes and restarts

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

Domain Structure

- AlphaDomain
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - 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)

WebLogic Server Version: 12.1.3.0.0
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The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for FCUBSJMSModule" and includes a "Configuration" tab. Below this, there is a "Summary of Resources" table with the following data:

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

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

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

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

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

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

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

How do I...
Configure outbound connection pool properties

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

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

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

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

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

Outbound Connection Pool Configuration Table

New Delete Showing 1 to 1 of 1 Previous | Next

Groups and Instances	Connection Factory Interface
oracle.tp.adapter.jms.IJmsConnectionFactory	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/activemq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/ajqms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/foranoma/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiab2BQueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiabErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jpramati/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/sunmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/webspheremq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory

soa-infra (SOA Infrastruct... x 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?_nfpb=true&_pageLabel=ConnectorCreateOutboundConnectionPage

ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...
Configure outbound connection pool properties

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

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

Create a New Outbound Connection
Back Next Finish Cancel

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

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

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

Showing 1 to 1 of 1 Previous | Next

Back Next Finish Cancel

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

10.184.135.218:7001/console/console.portal?ConnectorCreateOutboundConnectionPortlet_actionOverride=/cm/bea/console/actions/conn

ORACLE WebLogic Server Administration Console 12c

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

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

Domain Structure
AlphaDomain
Environment
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Startup and Shutdown Classes
Deployments
Services
Messaging
JMS Servers
Store-and-Forward Agents

How do I...
Configure outbound connection pool properties

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

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Create a New Outbound Connection

Back Next Finish Cancel

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

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

* JNDI Name: eis/Queue/Notif

Back Next Finish Cancel

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

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

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

New Delete Showing 1 to 1 of 1 Previous | Next

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

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

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

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

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

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

Summary of Deployments

Name	State	Health	Type	Targets	Deployment Order
AGAdapter	Prepared	OK	Resource Adapter	SOAServer	324
b2bul	Prepared	OK	Enterprise Application	SOAServer	313
BamComposer	New		Enterprise Application	BAMServer	500
BamCQService	New		Enterprise Application	BAMServer	300
BamServer	New		Enterprise Application	BAMServer	400
BPMComposer	Active	OK	Enterprise Application	SOAServer	385
coherence-tr-transaction-rar	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
CoherenceAdapter	Installed		Resource Adapter		331
DBAdapter	Active	OK	Resource Adapter	SOAServer	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	SOAServer	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSAppLUT (12.1.0.0.0)	Active	Warning	Enterprise Application	SOAServer	600
FileAdapter	Active	OK	Resource Adapter	SOAServer	321
frevo	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 interface. The main content area is titled "Summary of Deployments" and contains a table of installed and prepared applications and modules. The table has columns for Name, State, Health, Type, Targets, and Deployment Order. The table shows various applications and modules, including AqAdapter, b2bul, BamComposer, BamCQService, BamServer, BPMComposer, coherence-transaction-rar, CoherenceAdapter, DbAdapter, DefaultToDoTaskFlow, and DMS Application. The table also includes buttons for Install, Update, Delete, Start, and Stop. The table is showing 1 to 46 of 46 items.

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

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

1.2.7 Configuring FTP Adapter

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

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

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

The screenshot shows the Oracle WebLogic Server Administration Console at the "Create a New Outbound Connection" wizard. The "JNDI name for Outbound Connection Instance" field is filled with "eis/ftp/FtpAdapterLcl".

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/ftp/FtpAdapterLcl

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

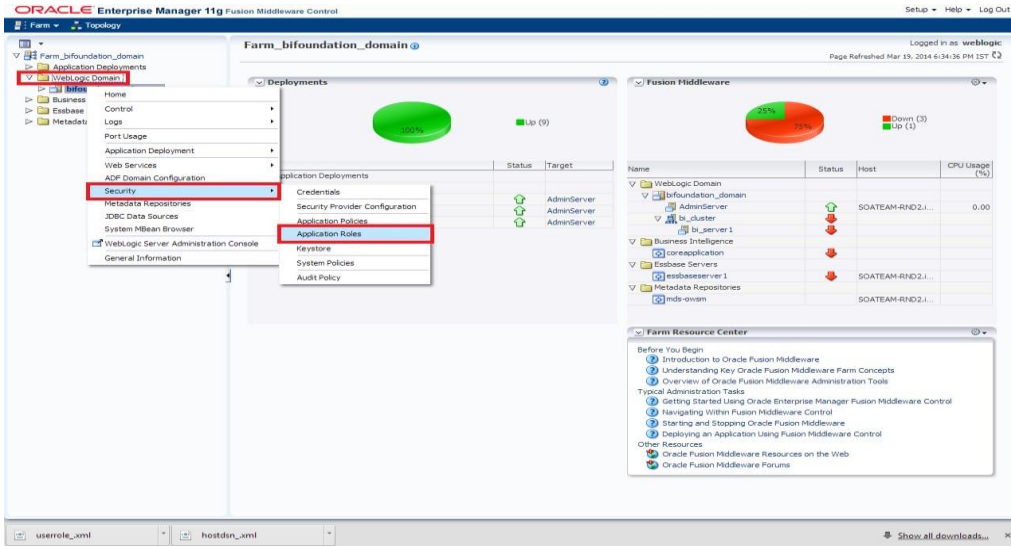
1. Login to the BIP domain console, <http://s:<hostname>:<port>/console>.
2. Follow the step 1.2.1 to add the “FCJCustomProvider”.

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 several tabs: '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' sub-section. A table of users is displayed with columns for 'Name', 'Description', and 'Provider'. The table contains 10 rows of user data. The footer of the console shows 'WebLogic Server Version: 10.3.6.0' and copyright information.

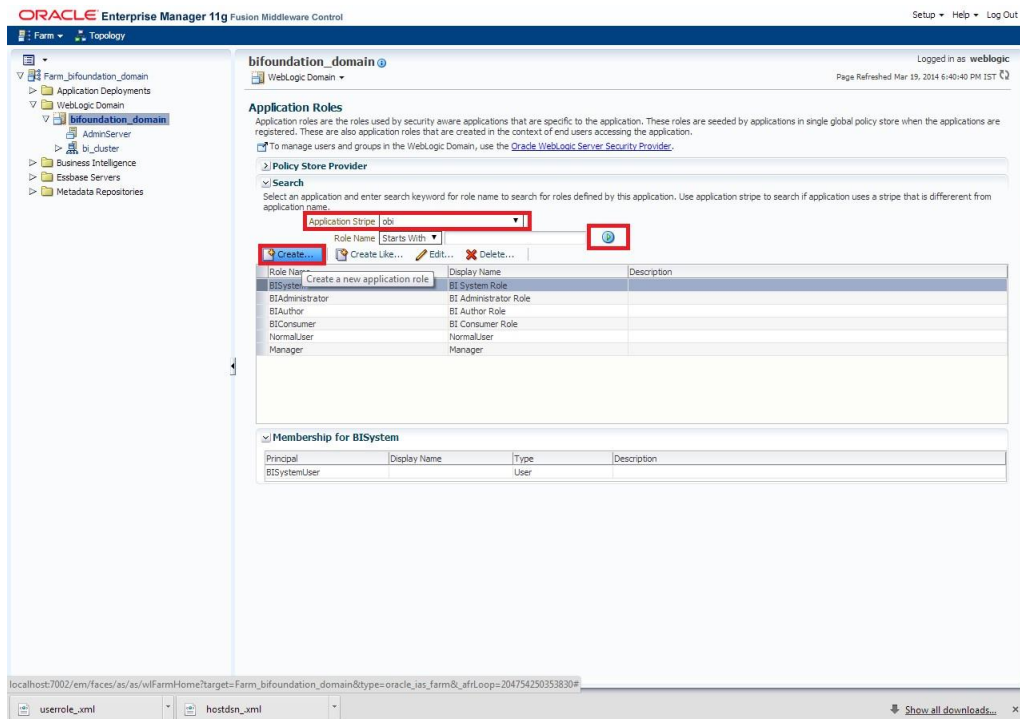
Name	Description	Provider
0004IT1	Default Admin User 1	FCJCustomProvider
11111RM_3	Siveta	FCJCustomProvider
11111RM_4	RM	FCJCustomProvider
112233	Default Admin User 10	FCJCustomProvider
121212	Default Admin User 10	FCJCustomProvider
123456	SANKER GS	FCJCustomProvider
141414	Default Admin User 10	FCJCustomProvider
15259A03	Kumar	FCJCustomProvider
JM20862	BALA	FCJCustomProvider
20862A1	Bala	FCJCustomProvider

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

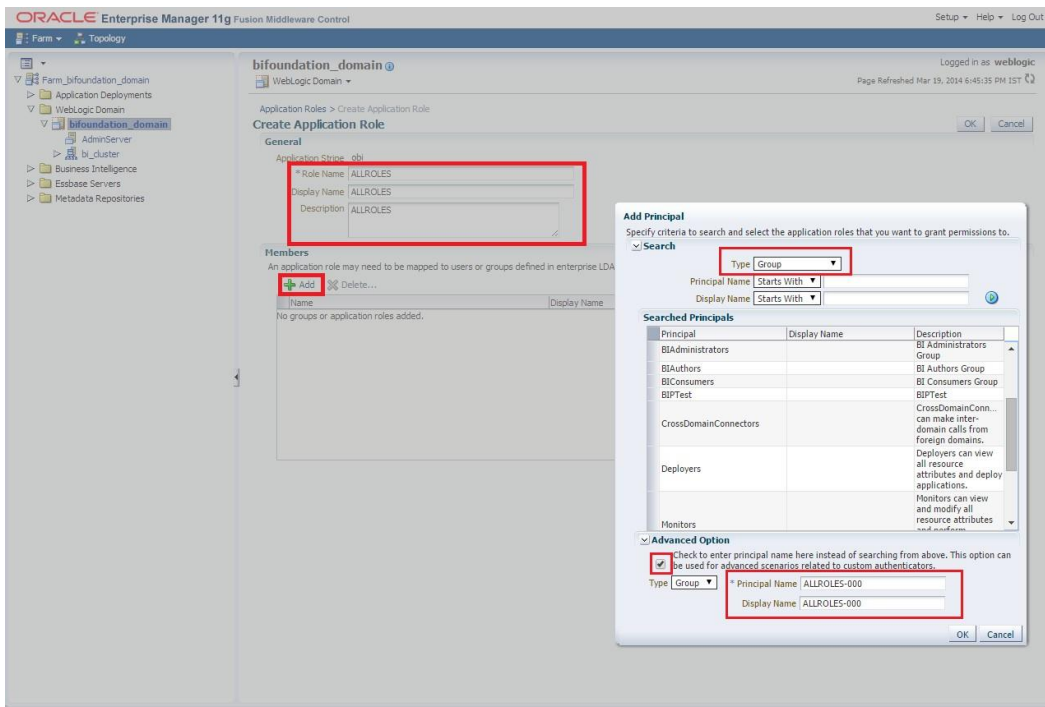


4. After navigating to next screen as in below screenshot,

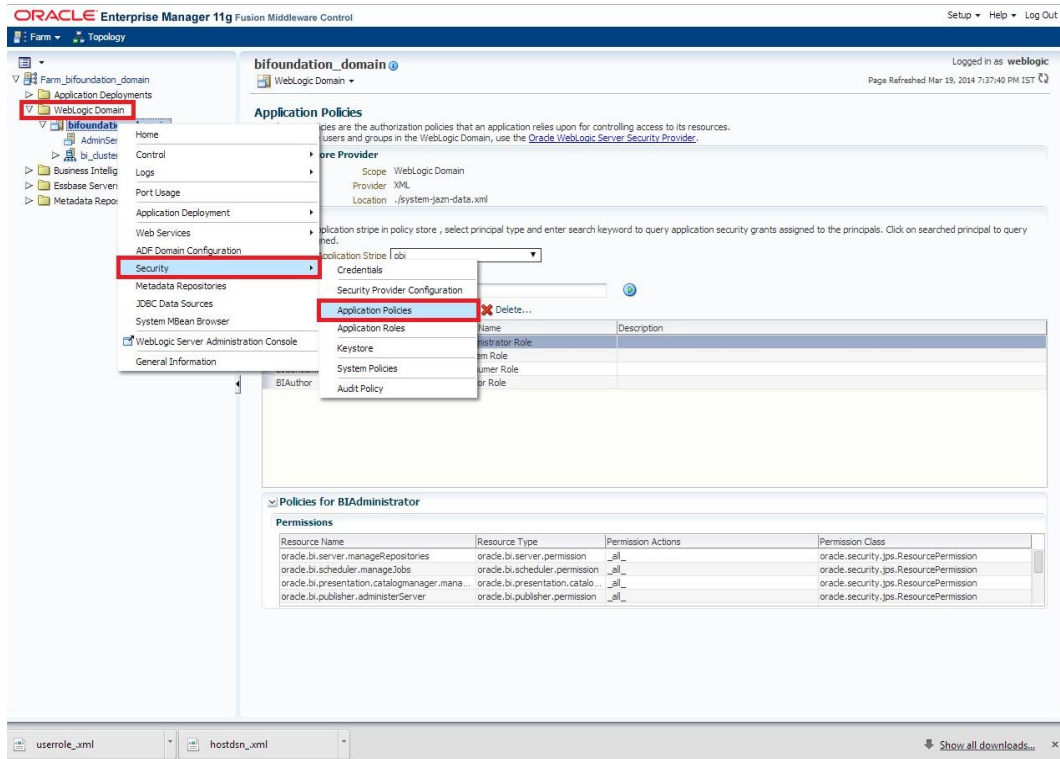
- Select application stripe as obi
- Click on the search button
- Click on create button to add a role



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

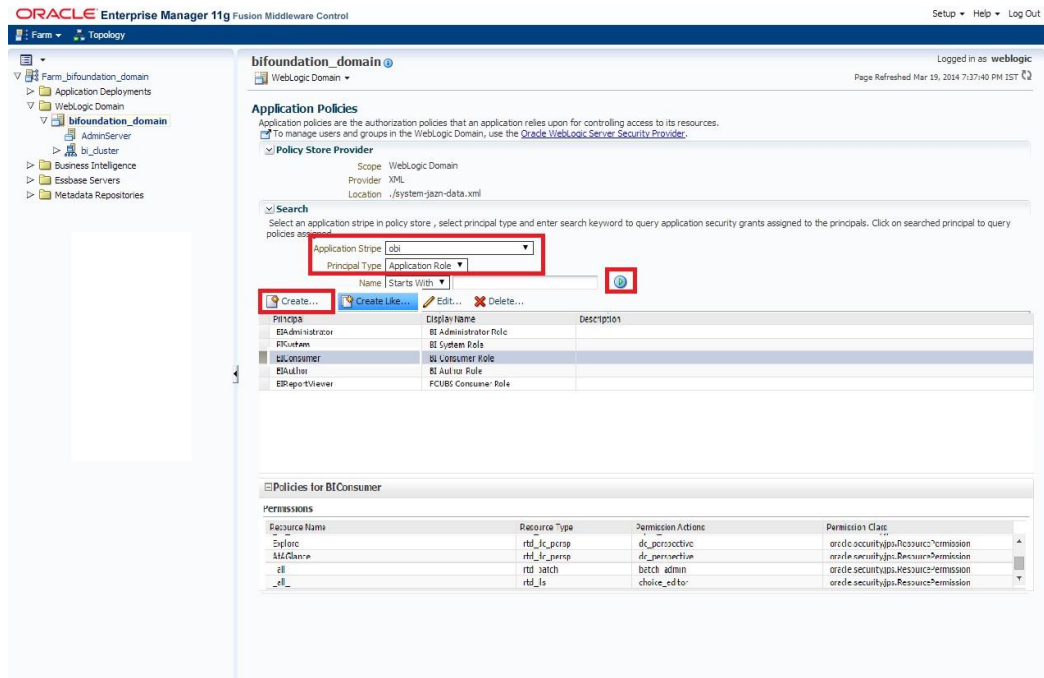


6. After getting information message like “A new role added successfully”, then again
 - Right click on the domain(in which BI suite is installed) under the weblogic domain
 - Go to security and then navigate to application polices



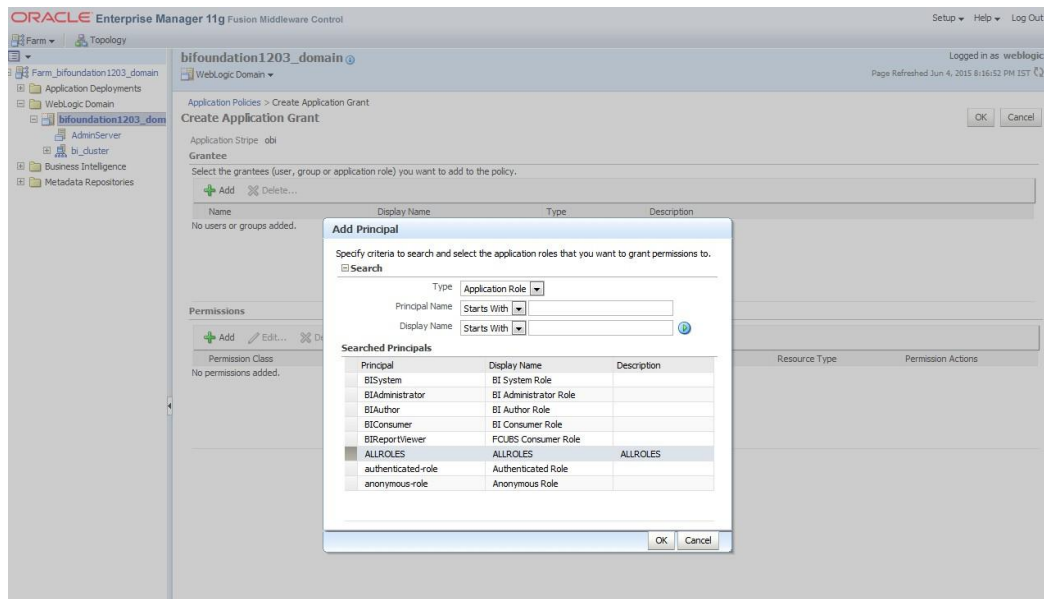
7. After navigating to next screen as per screen shot,

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



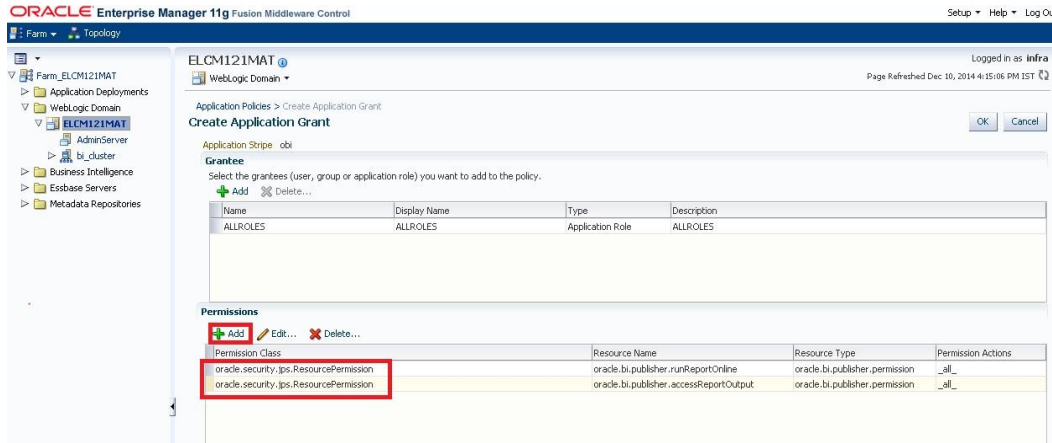
8. After navigating to next screen as per the screen shot,

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



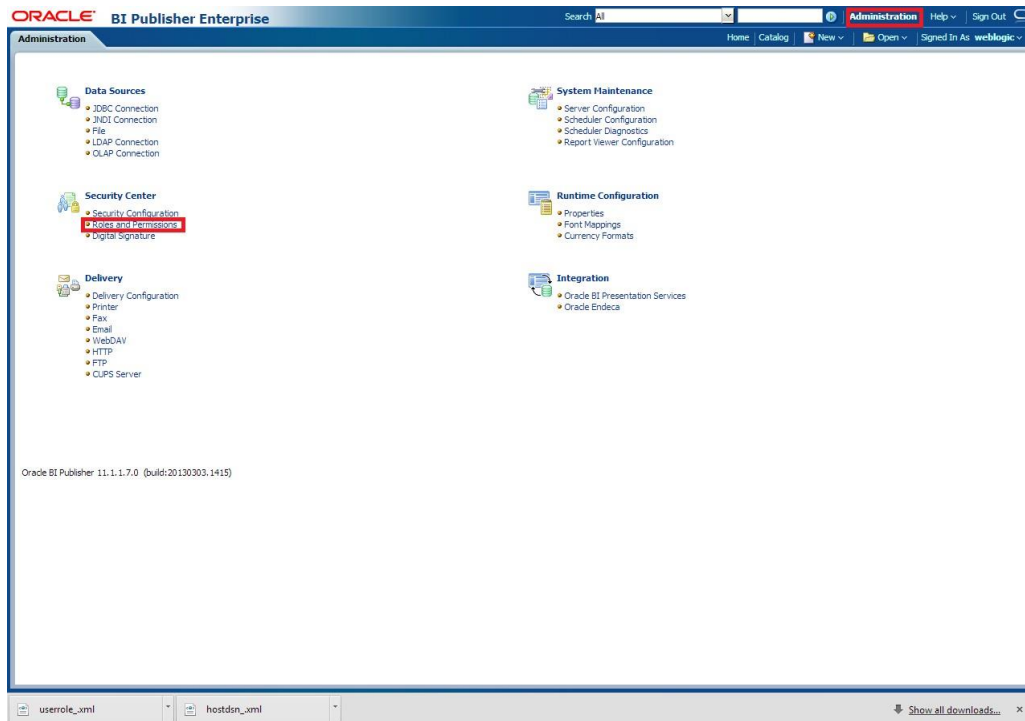
- Click Add button under Permissions and add the two permissions one by one as mentioned below.

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

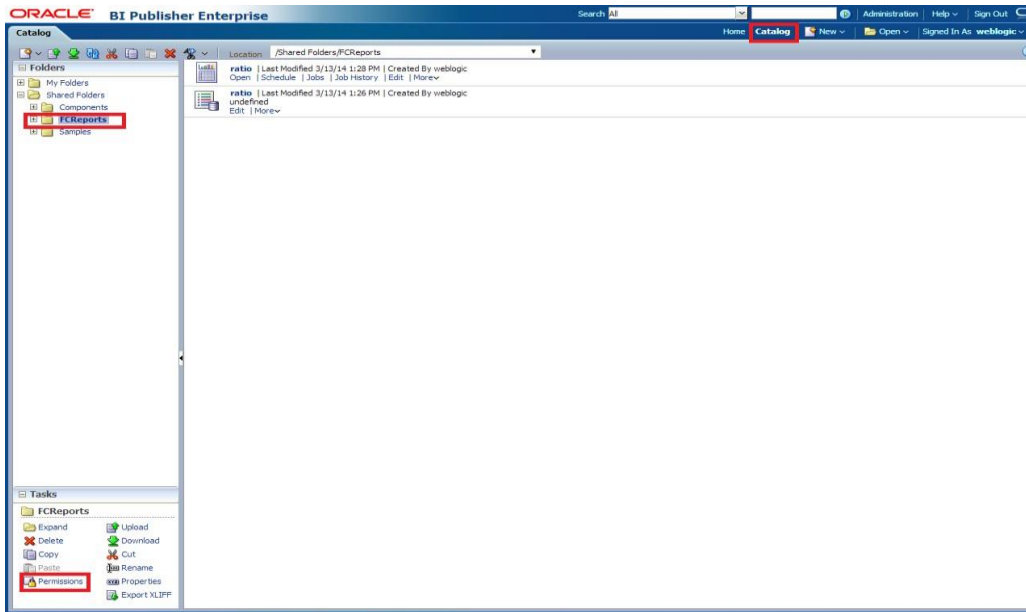


9. After getting information message like “A security added successfully”,

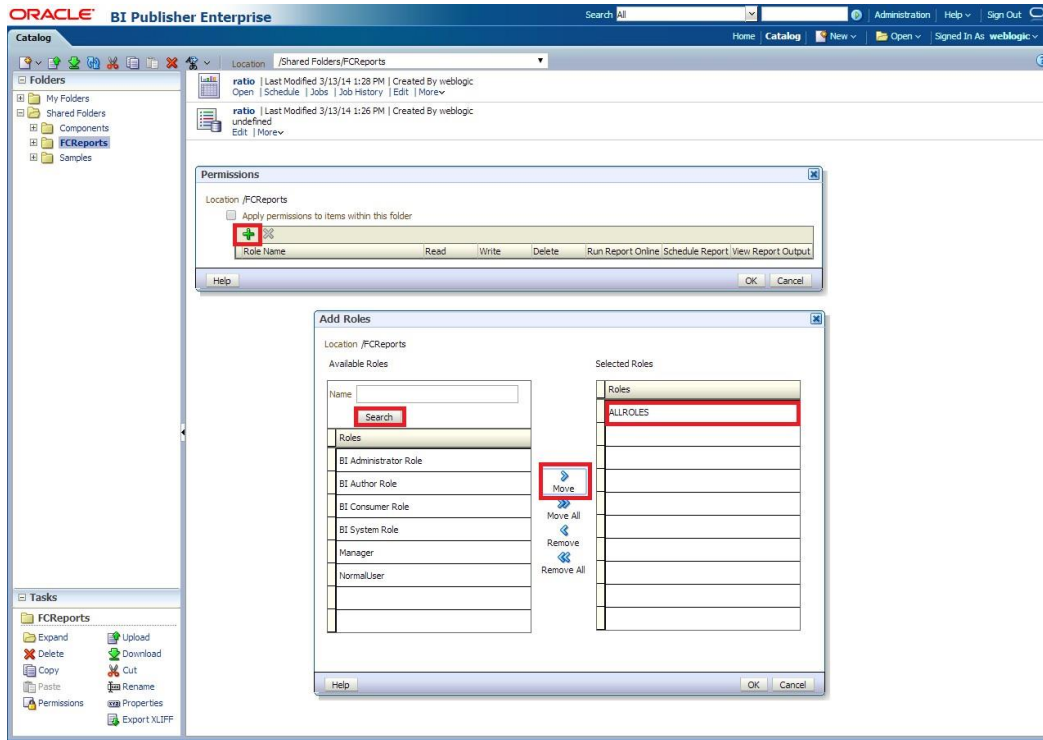
- Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpserver`
- Click on the Administration .
- Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart the servers.



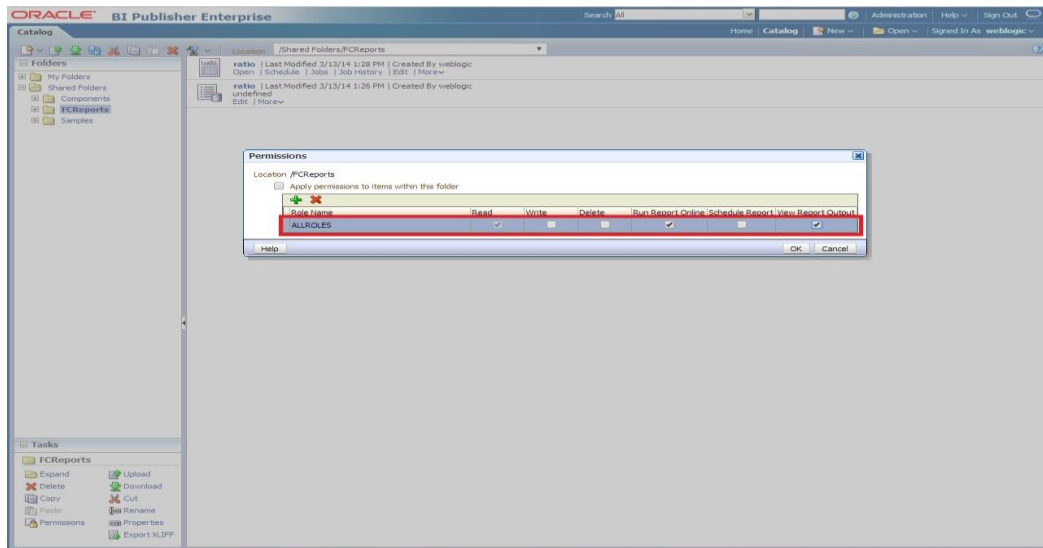
10. Then click on the Catalog , then on the folder that has been created , and then on permissions



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



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



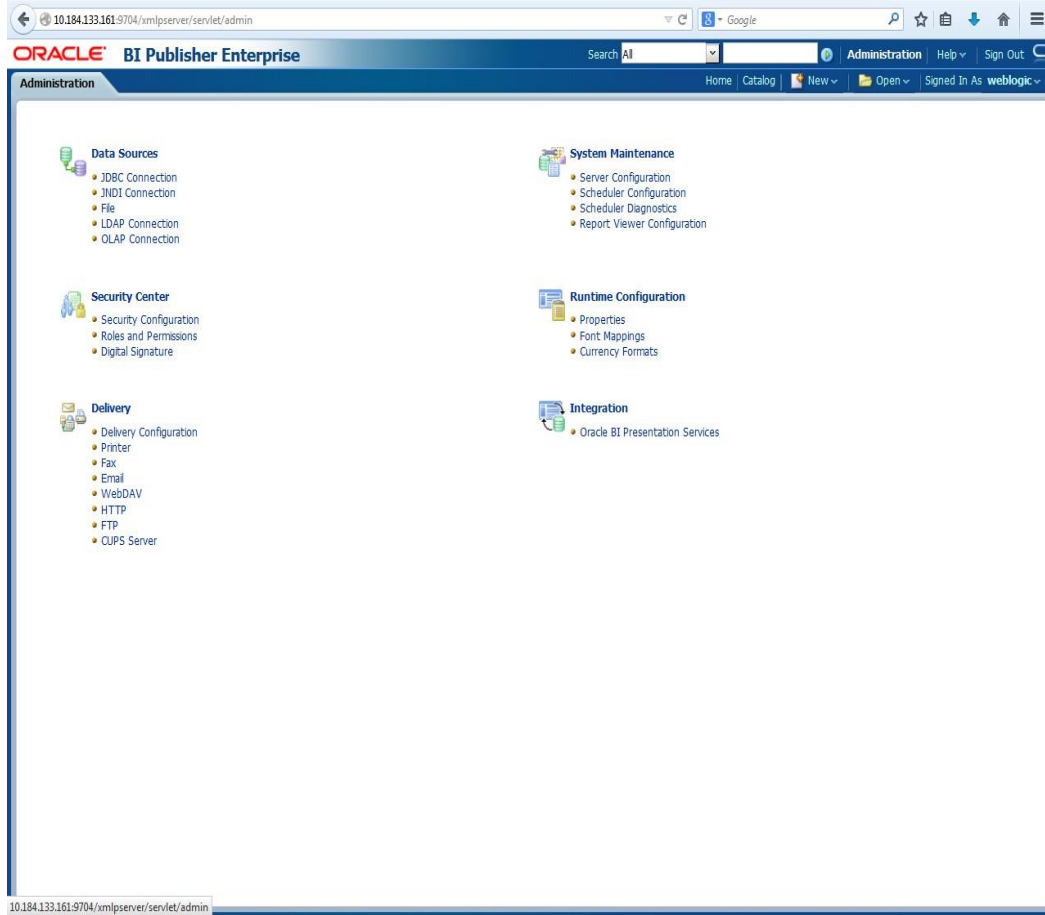
Now the reports in the folder will be accessed accordingly based on the roles.

Note:

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

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

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



ORACLE BI Publisher Enterprise Administration Help Sign Out

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

Data Sources

- JDBC Connection
- JNDI Connection
- File
- LDAP Connection
- OLAP Connection

Security Center

- Security Configuration
- Roles and Permissions
- Digital Signature

Delivery

- Delivery Configuration
- Printer
- Fax
- Email
- WebDAV
- HTTP
- FTP
- CUPS Server

System Maintenance

- Server Configuration
- Scheduler Configuration
- Scheduler Diagnostics
- Report Viewer Configuration

Runtime Configuration

- Properties
- Font Mappings
- Currency Formats

Integration

- Oracle BI Presentation Services

10.184.133.161:9704/xmlsoa/.../admin/datasource/connectionhome?view=idbc&:s1km=6ec2d6c614e97518204

ORACLE BI Publisher Enterprise Administration Help Sign Out

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

Administration > JDBC

Data Sources

JDBC JNDI File LDAP OLAP

Add Data Source Previous 1-10 of 16 Next 6

Data Source Name	Connection String	Delete
demo	jdbc:oracle:thin:@10.184.149.52:1521:SOADB	
FCI202UBS	jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW	
FCI21DEV	jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW	
FCBIP	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCOB121DEV	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCOR121UT	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCUBS1203	jdbc:oracle:thin:@10.184.132.137:1521:FCPATCH2	
FCUBS121	jdbc:oracle:thin:@whf0aew:1521:ORFC12C	
FCUBS12C	jdbc:oracle:thin:@10.184.132.172:1521:FCUBS12C	
fcubsvf1202	jdbc:oracle:thin:@10.184.149.52:1521:SOADB	

Add Data Source Previous 1-10 of 16 Next 6

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

ORACLE BI Publisher Enterprise

Administration > JOBC > Add Data Source

Add Data Source

General

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

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

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

Use Proxy Authentication

Backup Data Source

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

Use Backup Data Source
 Connection String:
 Username:
 Password:

- Add the fcubs roles to allowed Roles under security

ORACLE BI Publisher Enterprise

Administration > JOBC > Add Data Source

Add Data Source

General

Use System User
 * Username: DEV12C_SOAINFRA
 Password: [REDACTED]
 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:

Security

Allow Guest Access

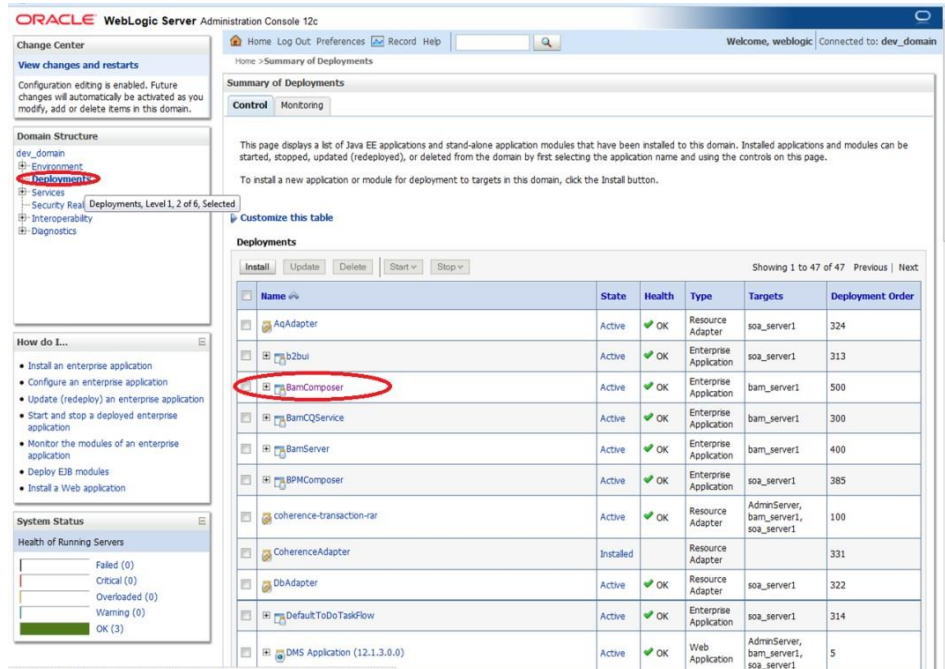
Available Roles: BI Administrator Role, BI Author Role, BI Consumer Role, BI System Role, FCUBS Consumer Role
 Allowed Roles: ALLROLES

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

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

1.2.8 **BAM Report Configuration settings**

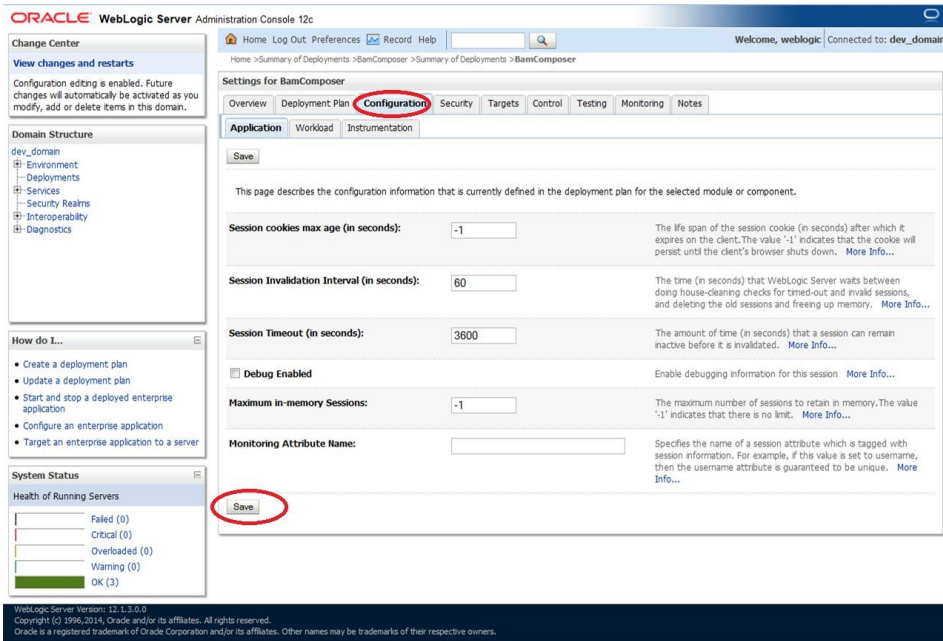
1. The Following set of instructions can be followed if the BPEL need to be configured with BAM reportsGenerate a deployment plan for BAM Composer Application.
2. Login in to console <http://hostname:port/console>
3. Click on Deployments → click on BAM Composer



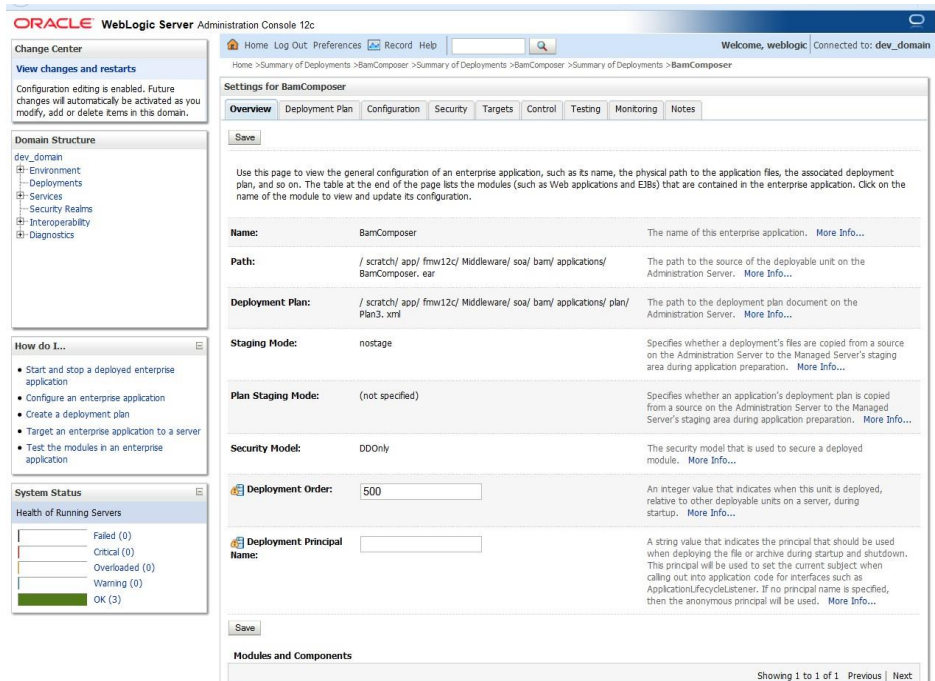
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Summary of Deployments' page, which includes a table of installed applications and modules. The 'BAMComposer' application is highlighted with a red circle. The table columns are Name, State, Health, Type, Targets, and Deployment Order.

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bui	Active	OK	Enterprise Application	soa_server1	313
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 and circled in red. Other applications listed include AqAdapter, b2bui, BamCQService, BamServer, BPMComposer, coherence-transaction-rar, CoherenceAdapter, DbAdapter, DefaultToDoTaskFlow, DNS Application (12.1.3.0.0), em, FOUBSAppIUT (12.1.0.0.0), FOUBSAppSoaEmb (12.1.0.0.0), FileAdapter, frevo, and ftnAdapter.

Name	Health	Type	Targets	Deployment Order
AqAdapter	OK	Resource Adapter	soa_server1	324
b2bui	Active	Enterprise Application	soa_server1	313
BAMComposer	Active	Enterprise Application	bam_server1	500
BamCQService	Active	Enterprise Application	bam_server1	300
BamServer	Active	Enterprise Application	bam_server1	400
BPMComposer	Active	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	Resource Adapter	AdmnServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed	Resource Adapter		331
DbAdapter	Active	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	Enterprise Application	soa_server1	314
DNS Application (12.1.3.0.0)	Active	Web Application	AdmnServer, bam_server1, soa_server1	5
em	Active	Enterprise Application	AdmnServer	400
FOUBSAppIUT (12.1.0.0.0)	Active	Enterprise Application	soa_server1	600
FOUBSAppSoaEmb (12.1.0.0.0)	Prepared	Enterprise Application	soa_server1	601
FileAdapter	Active	Resource Adapter	soa_server1	321
frevo	Installed	Enterprise Application		100
ftnAdapter	Active	Resource	soa_server1	325

8. Update the deployment plan.

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev_domain

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

Summary of Deployments

Control Monitoring

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

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

Customize this table

Deployments

Install Update Delete Start Stop

Showing 1 to 47 of 47 Previous Next

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

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: dev_domain

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

Update Application Assistant

Back Next Finish Cancel

Locate new deployment files

You have elected to update the BamComposer application.

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

Redeploy this application using the following deployment files:

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

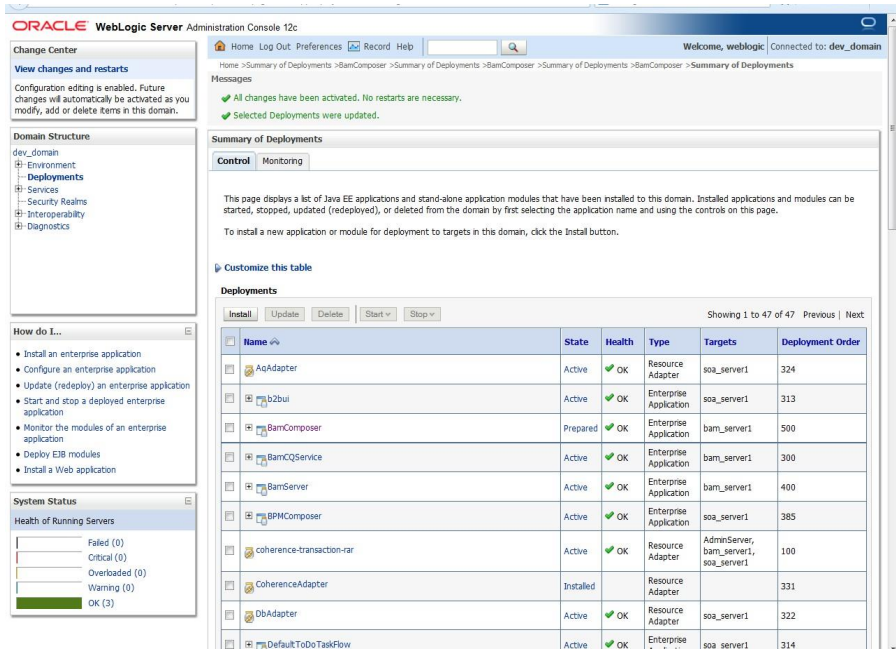
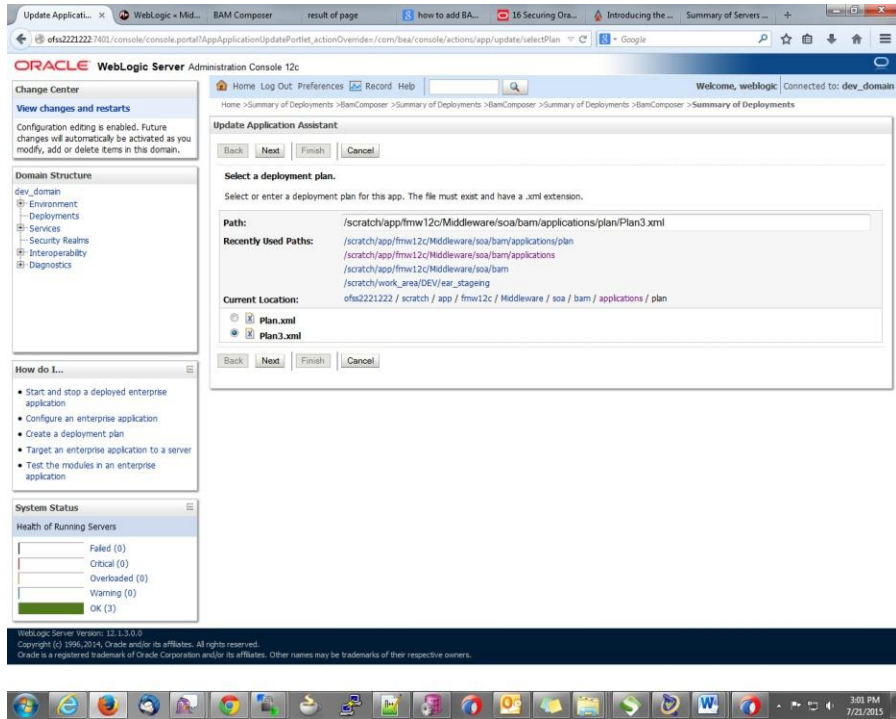
Source path: /scratch/app/fmw12c/Middleware/soa/bam/applications/BamComposer.ear **Change Path**

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

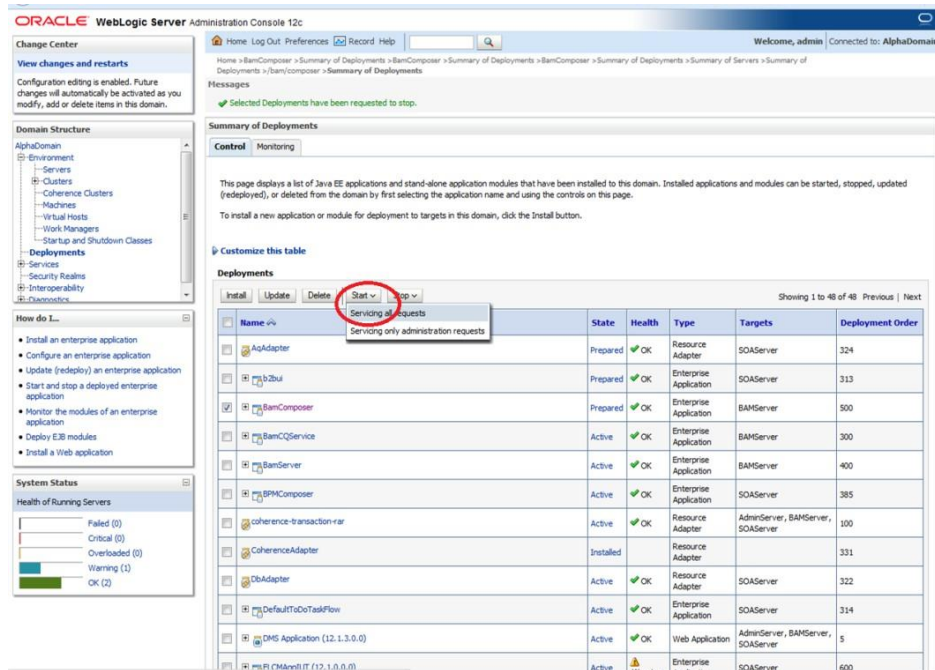
Back Next Finish Cancel

WebLogic Server Version: 12.1.3.0.0
Copyright (c) 2006-2014, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

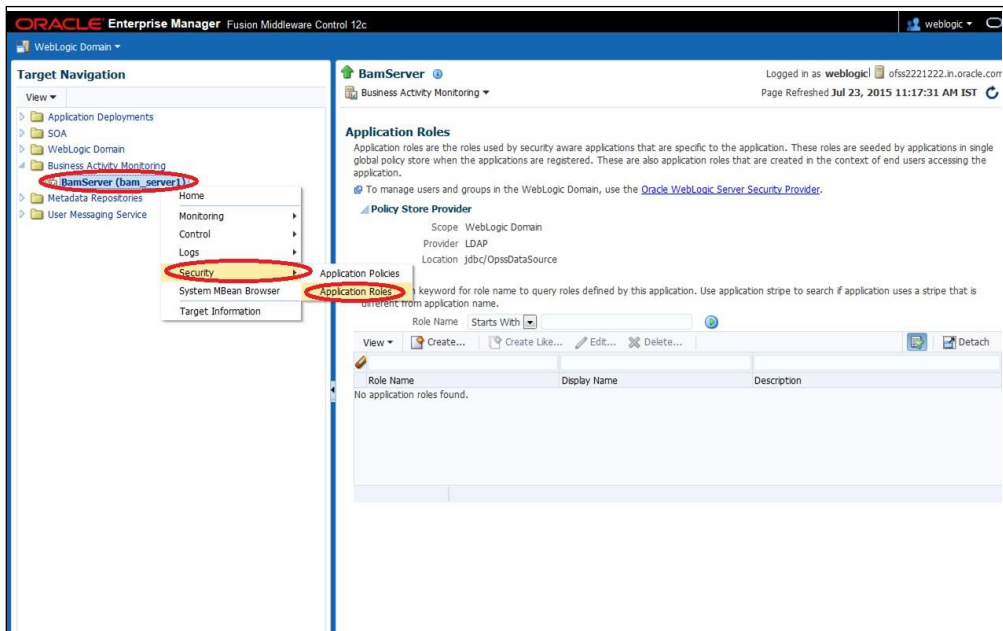
11. Select the latest plan.xml in the in the path → next → next → Finish



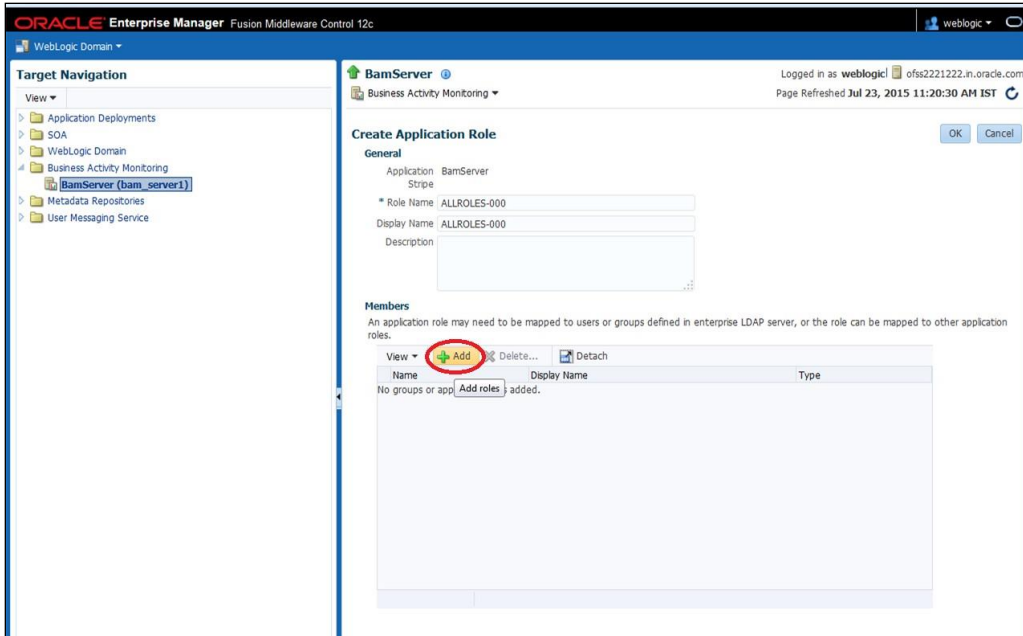
12. Restart the BAM Composer application in the console



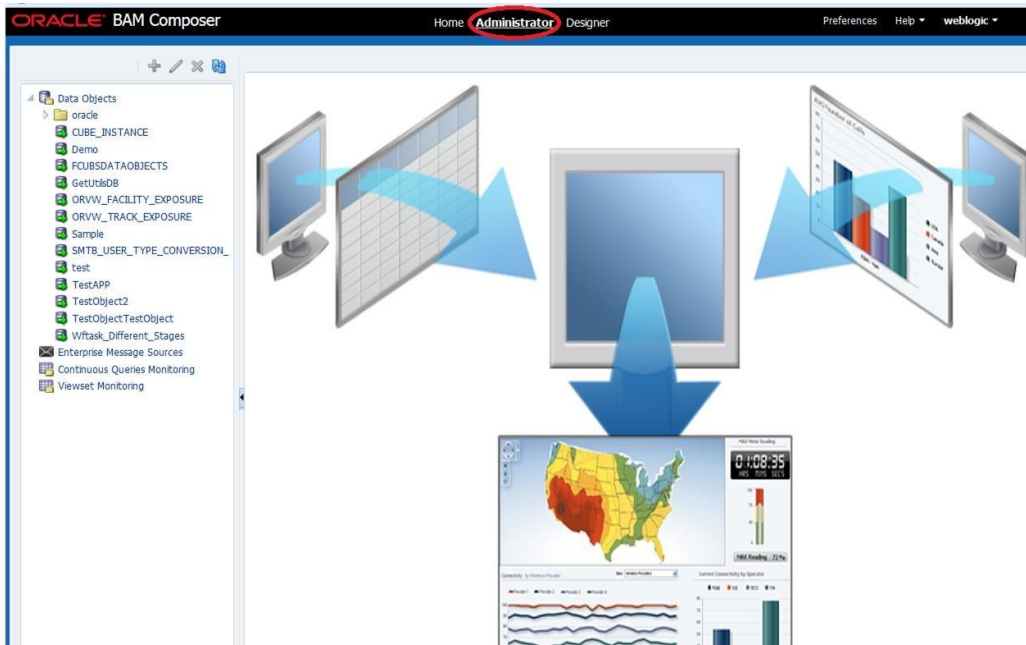
13. Login in to em console <http://hostname:port/em>
14. Right Click on BAM Server → Security → Application Roles



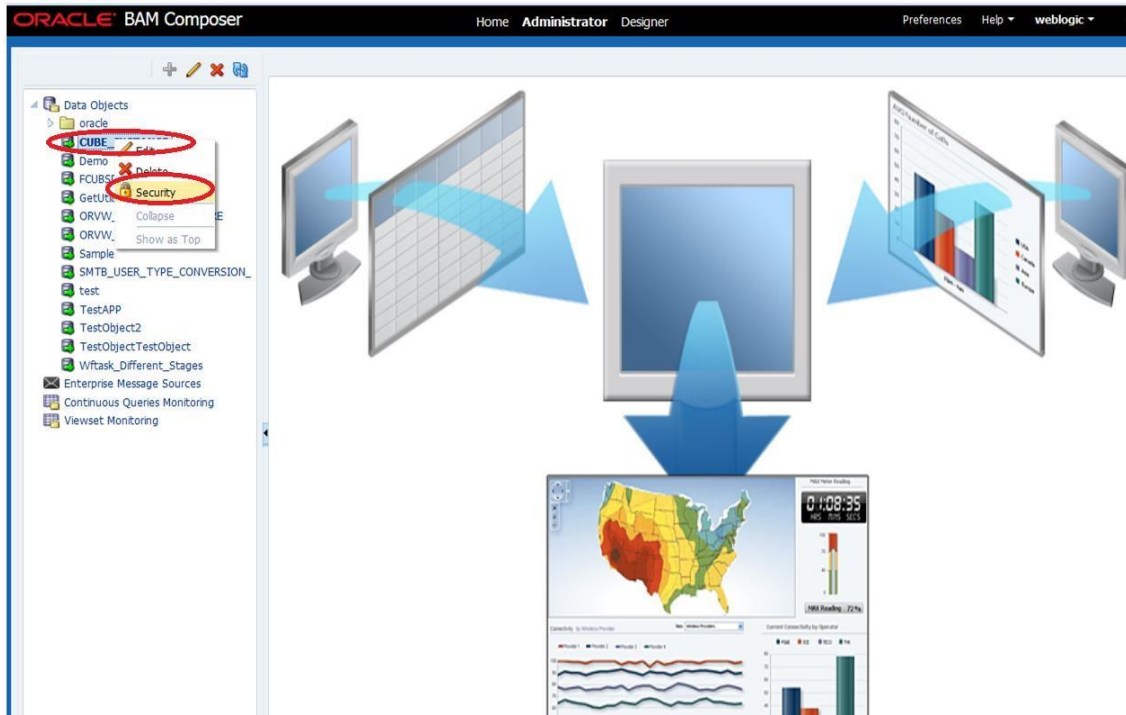
15. Click on Create → create application role with ALL ROLES-000 → Click on ADD button in the Members



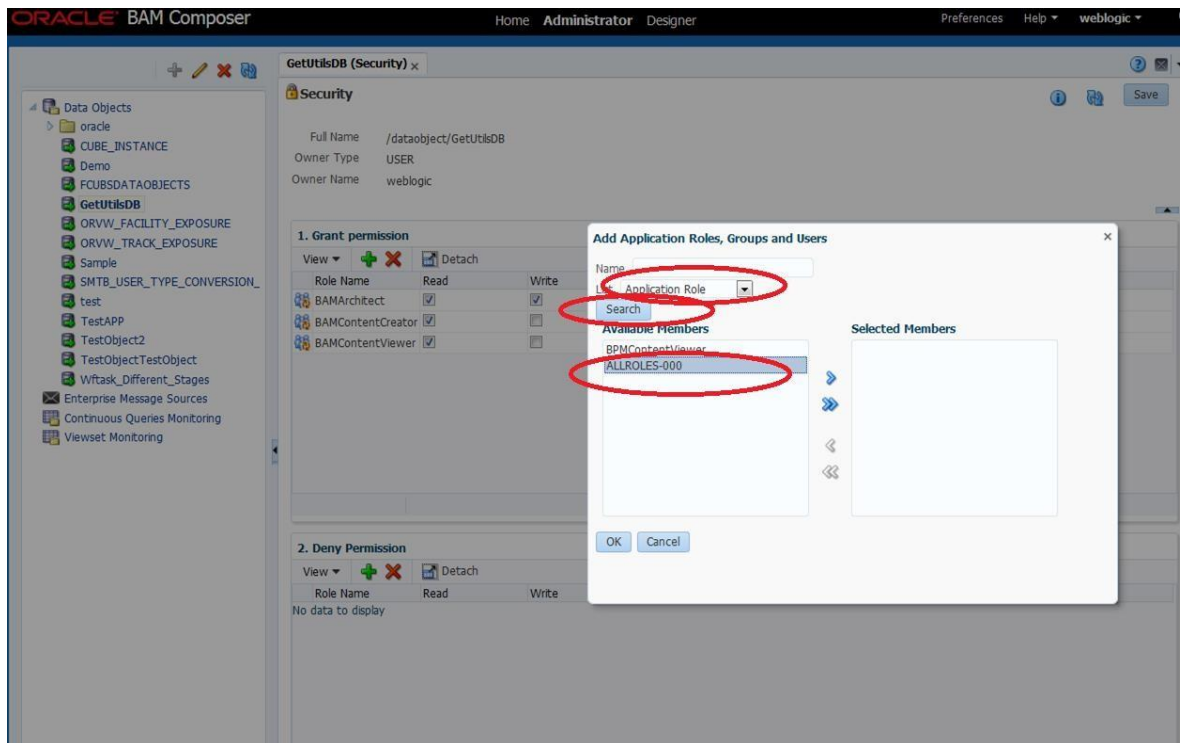
16. Select the Type as Group and add principle details be referring the below screen shot.
17. Login to BAM Composer → <http://hostname:port/bam/composer> → Click on Administrator.



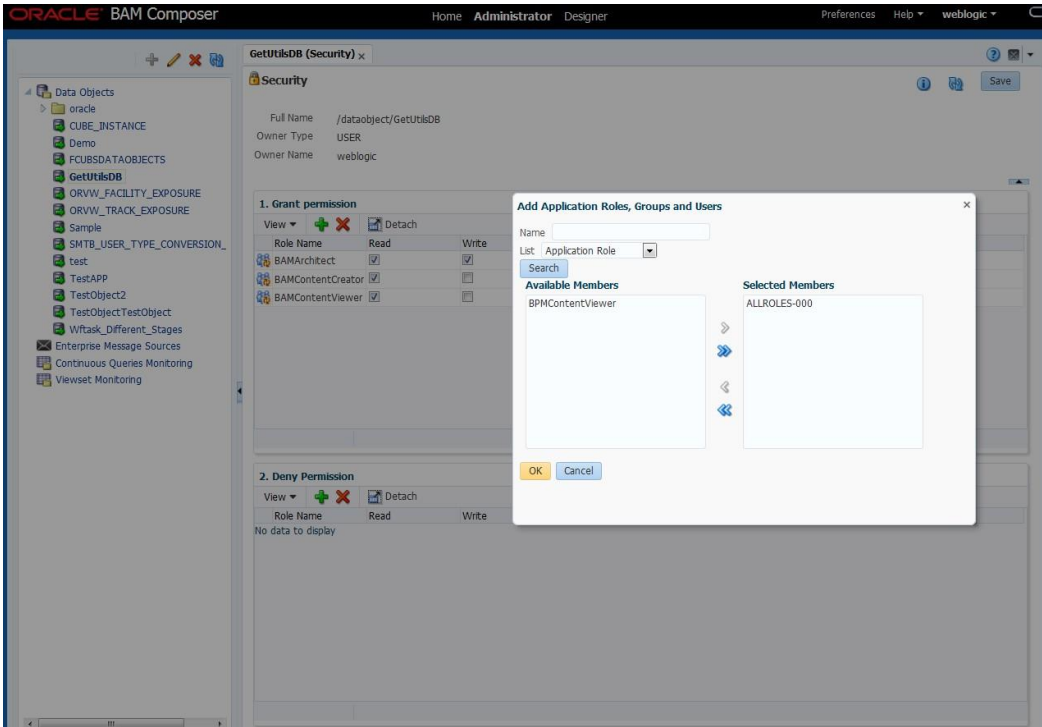
18. Go to Data Object → Right Click on CUBE_INSTANCE → Security



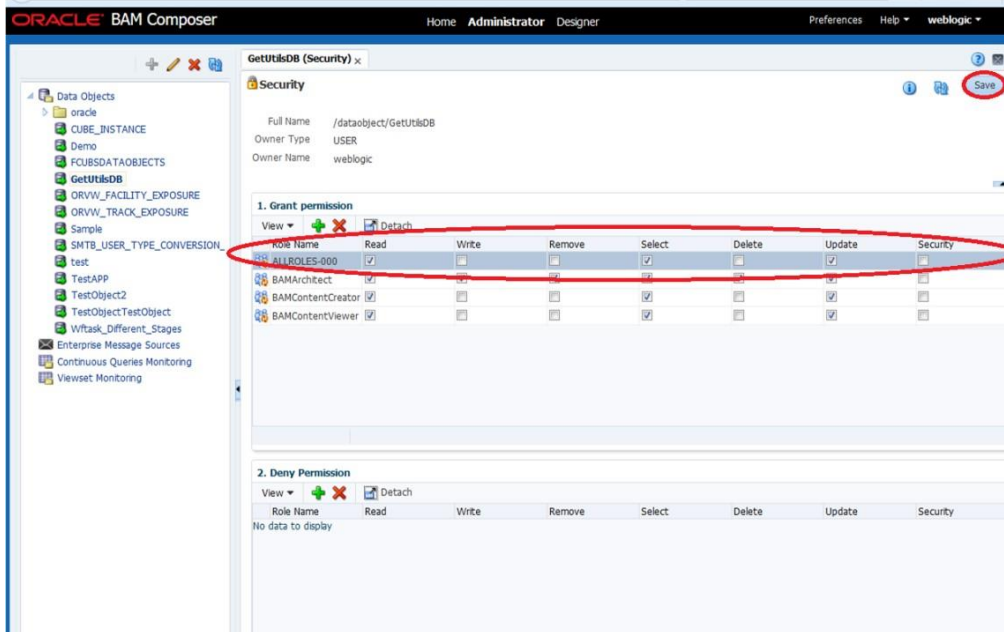
19. Click on Add button under Grant permission and search the list based on the Application Role



20. Move the ALLROLES-000 to Selected members.

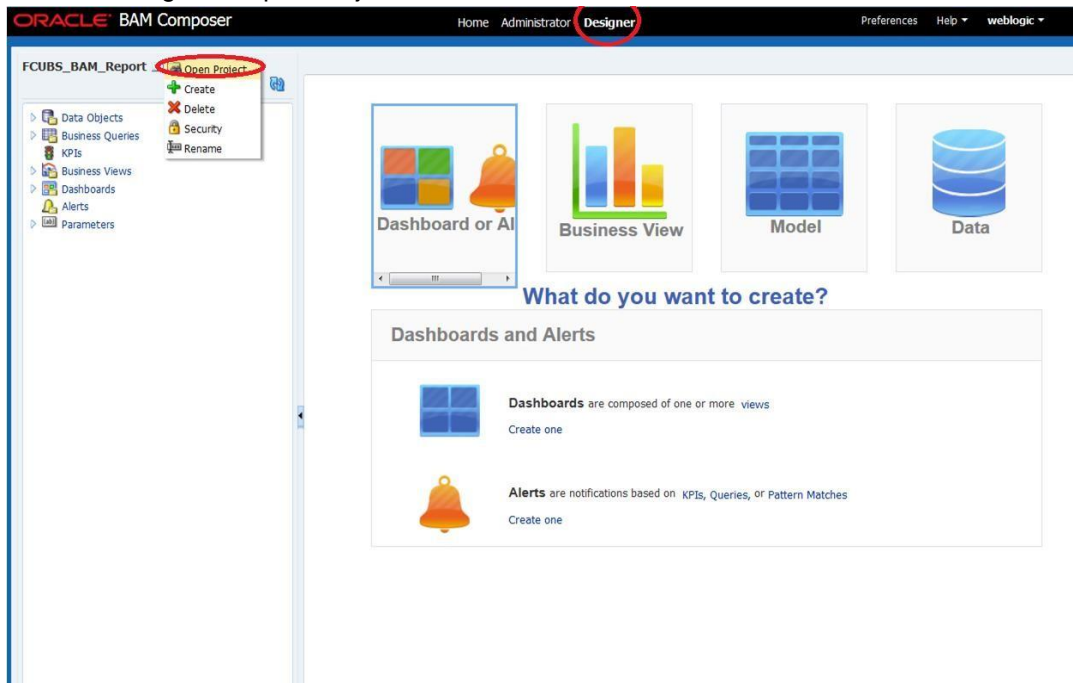


21. Click on read, select and Update check boxes → Click on Save.

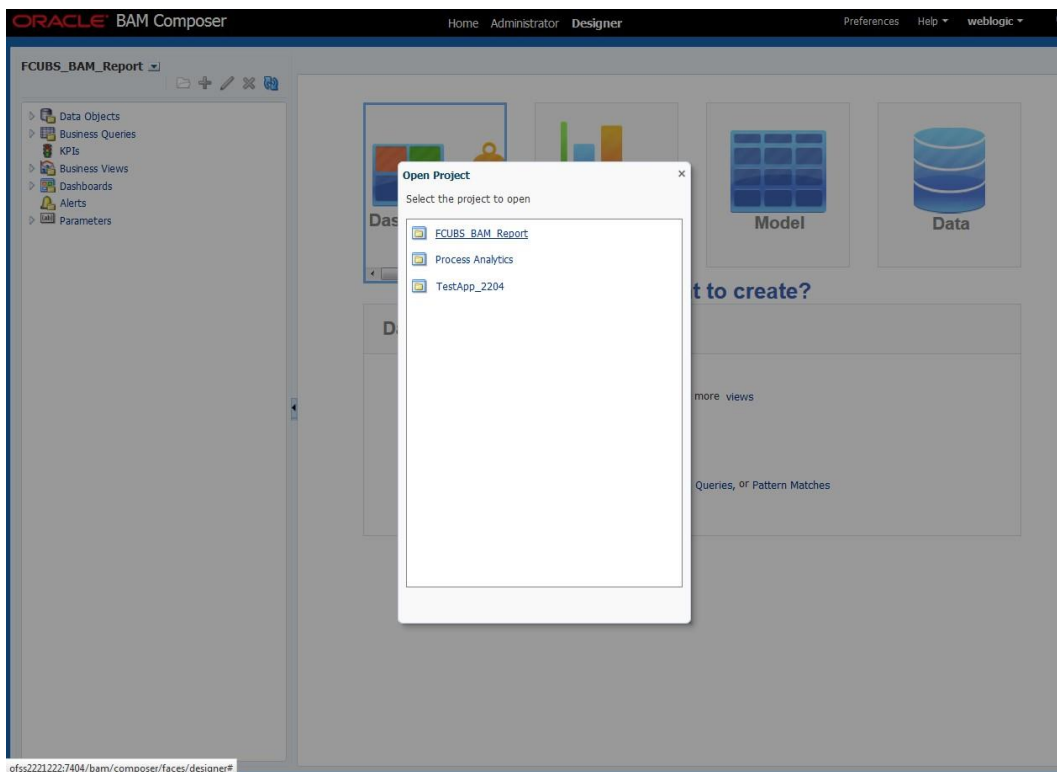


22. Follow the step 17 to 21 for other Data objects also.(cube_instance,wftask_different_stages, ORVW_TRACK_EXPOSURE, ORVW_FACILITY_EXPOSURE, GetUtilsDB, SMTB_USER_TYPE_CONVERSION_VIEW, FCUBSDATAOBJECTS).

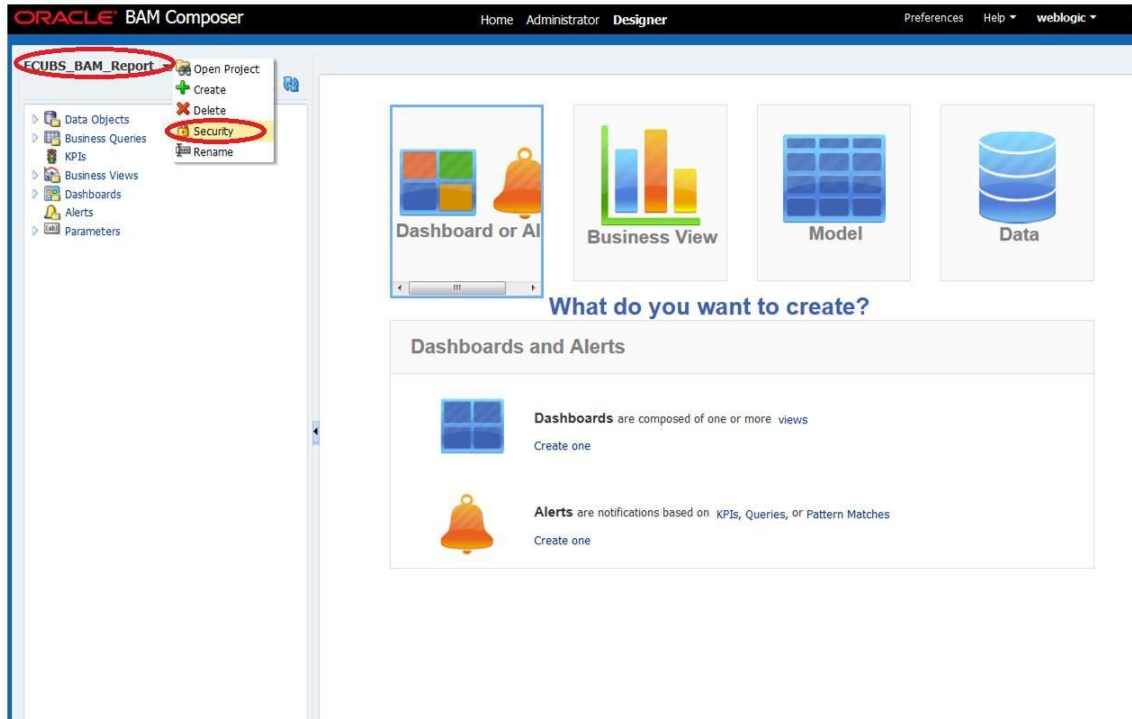
23. Click on Designer →open Project



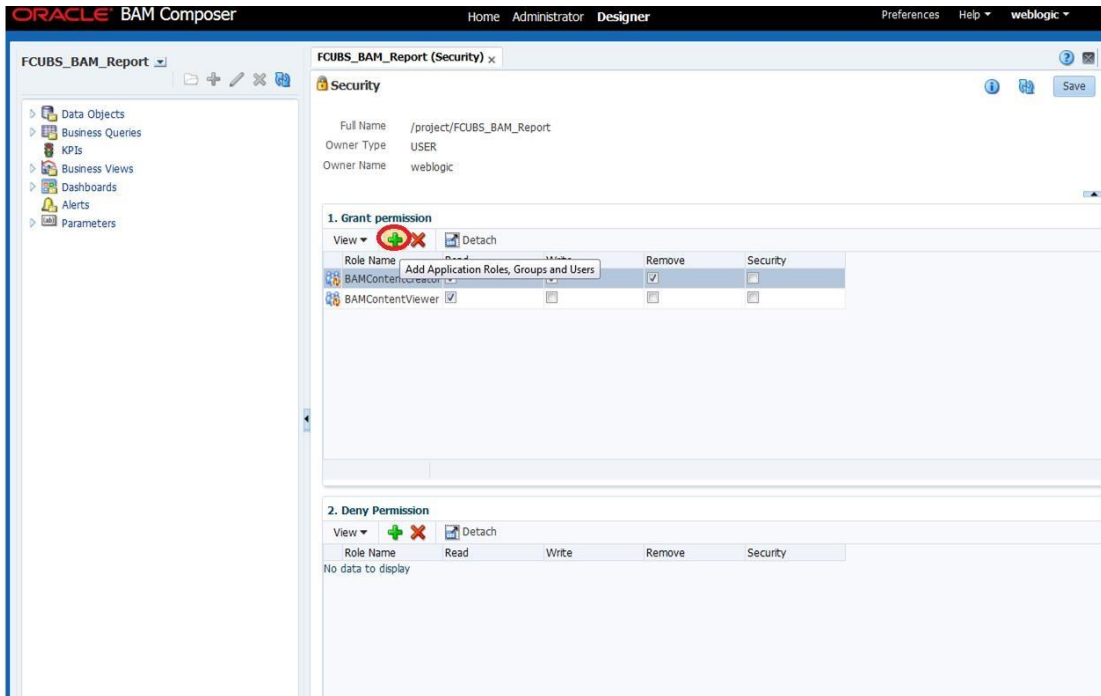
24. Click on FCUBS_BAM_report

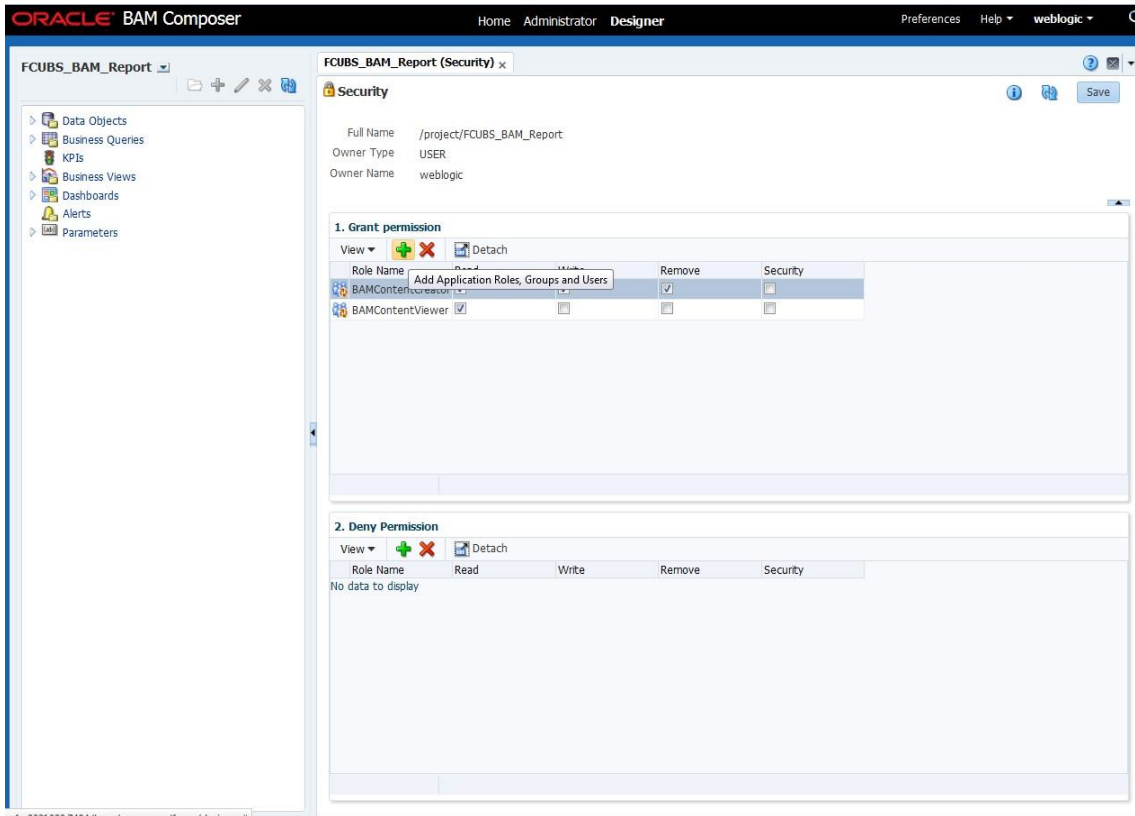


25. click on FCUBS_BAM_Report →Security

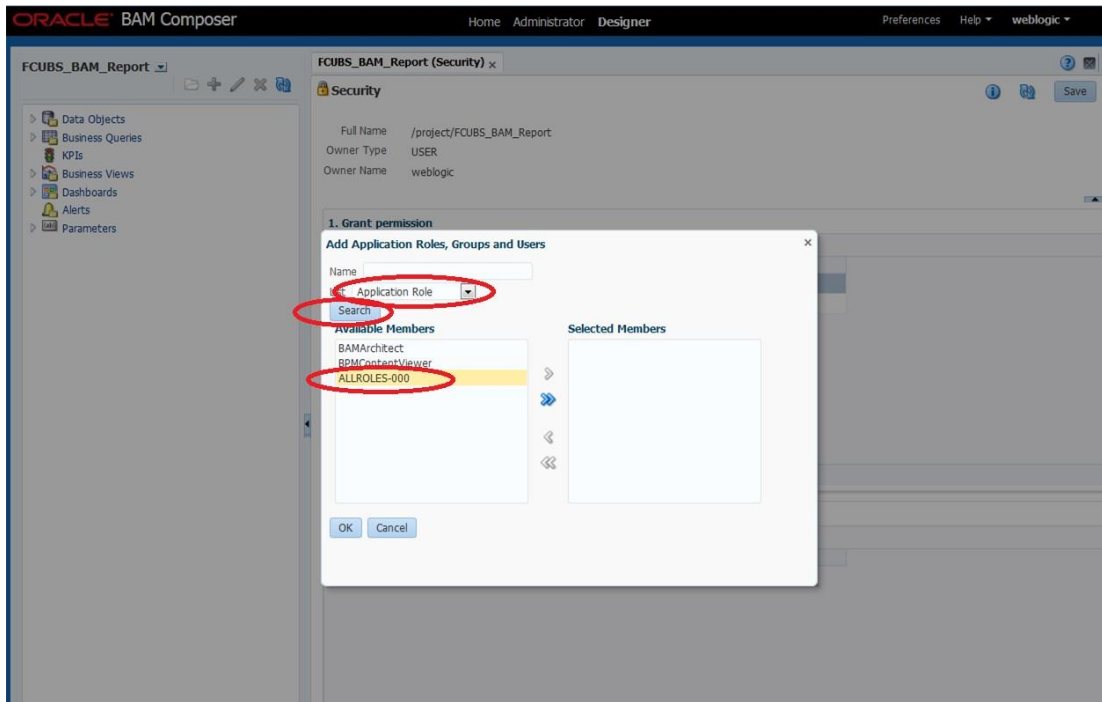


26. Click on ADD button Under Grant Permission.

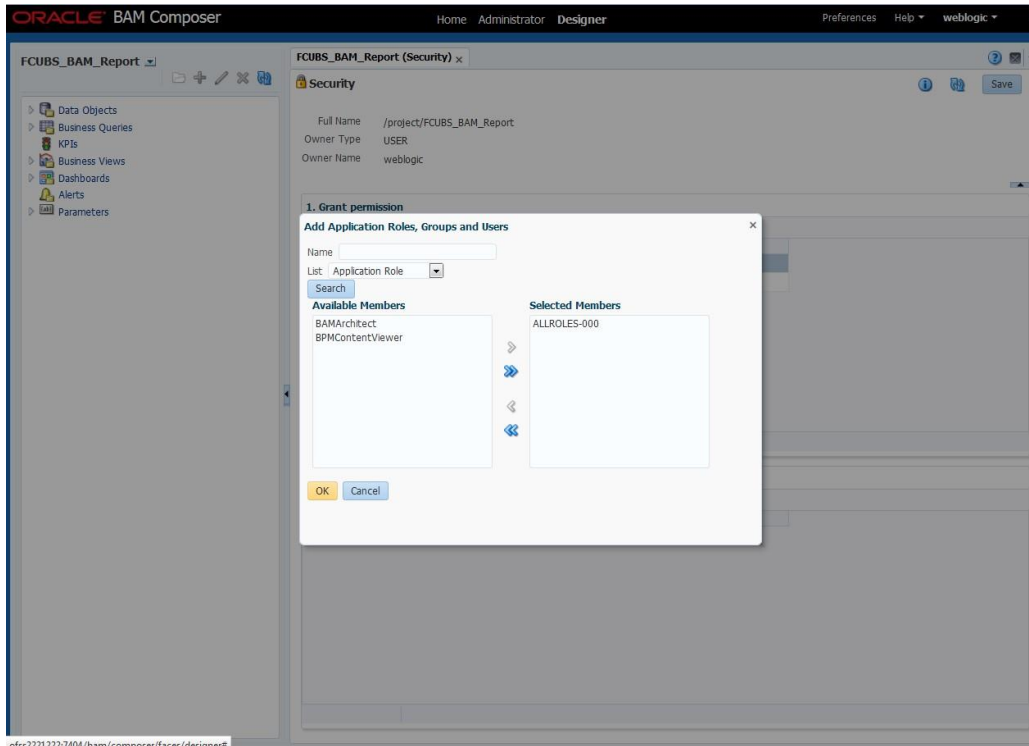




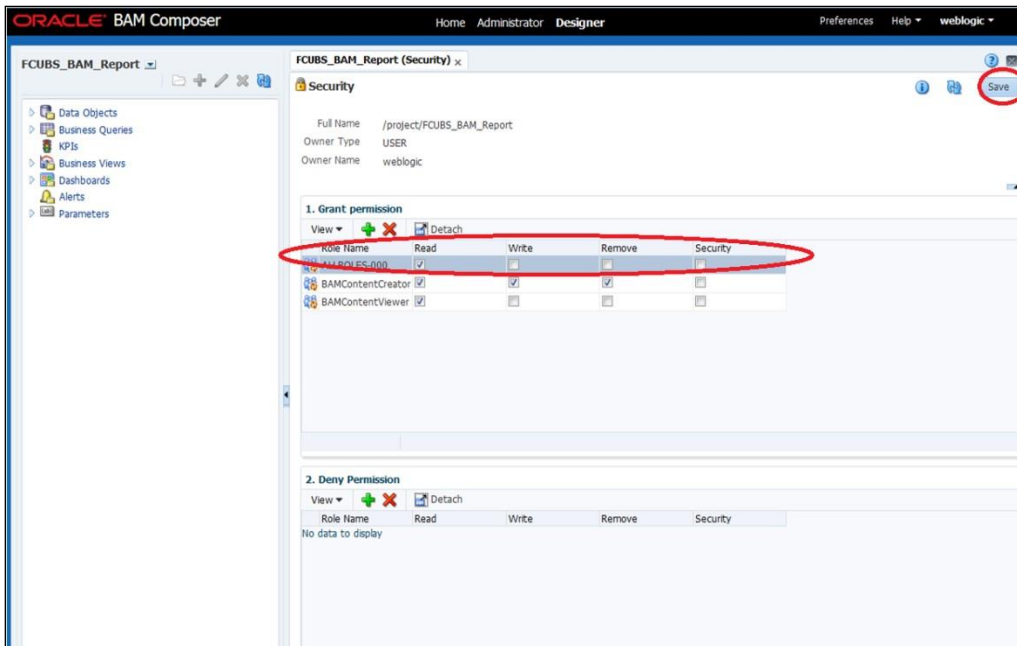
27. Search the List based on the Application Roles and Select the ALLROLES-000



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



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



1.2.9 IPM configuration to edit the document

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

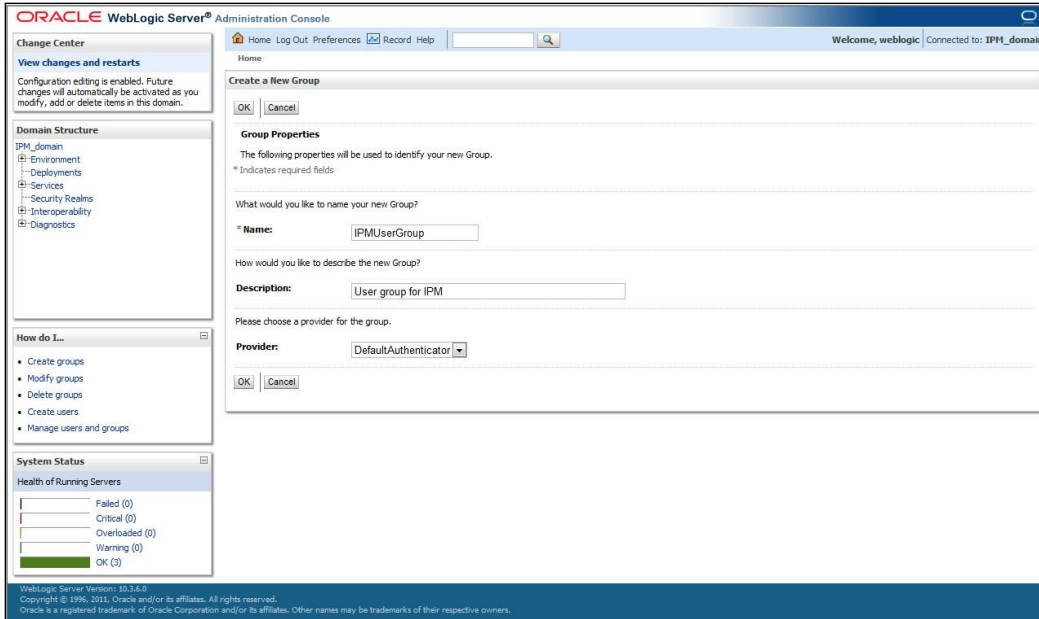
1. Login to the console, `http/s:<hostname>:<port>/console` with admin user
2. Follow the step 1.2.1 to add the “FCJCustomProvider”.

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

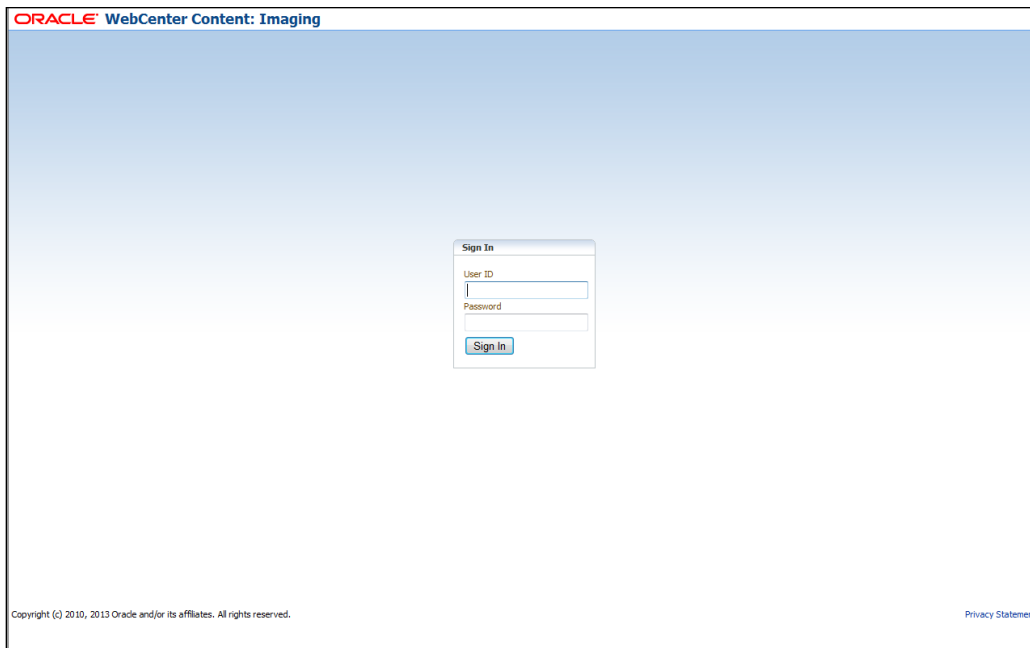
3. After adding the custom authenticator,
 - Navigate to security realms >my realm > Users and Groups > Groups.
 - Click on the New button.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The left sidebar contains navigation options like 'Change Center', 'Domain Structure', and 'System Status'. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Groups' sub-tab is selected. Below the sub-tabs, there is a 'Groups' table with columns for 'Name', 'Description', and 'Provider'. A 'New' button is highlighted in red above the table. The table lists various groups such as 'AC-BATCH', 'AC-REPORTS', 'AC-RPT', 'ADMIN', 'AdminChannelUsers', 'Administrators', 'ADMINROLE', 'AE-MAINT-IN', 'AEOD-RPT', and 'AEOD-STB'. The bottom of the console shows the version '10.3.6.0' and copyright information.

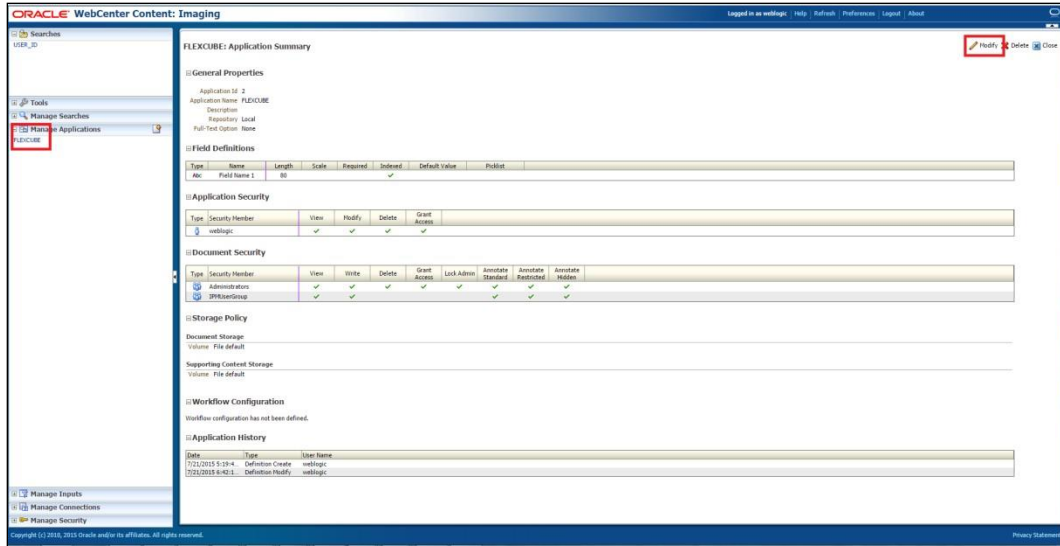
4. After Clicking on the new button,
 - Enter the name as “IPMUserGroup”
 - Description for it (optional)
 - And select the authenticator as “DefaultAuthenticator”
 - And then click “Ok”



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

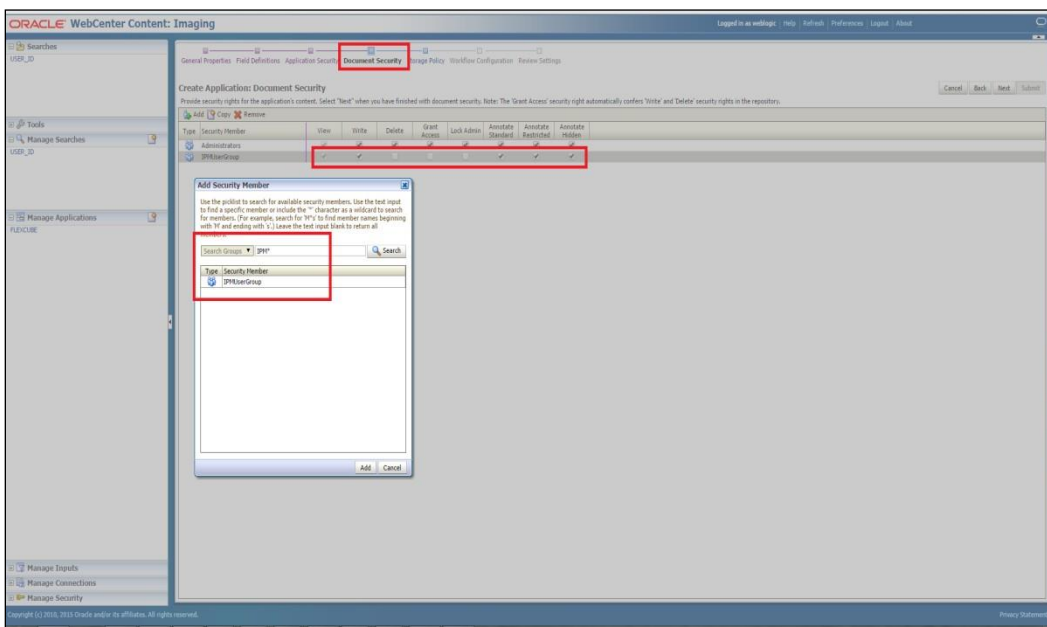


- Navigate to Manage Applications
- Click on the FLEXCUBE
- Then click on the modify on the right pane

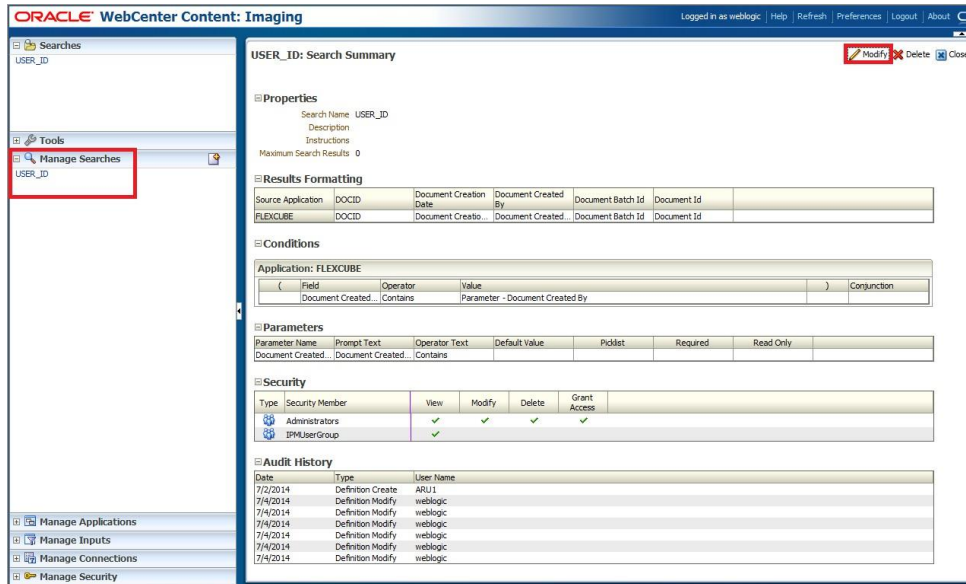


6. After clicking on the modify button,

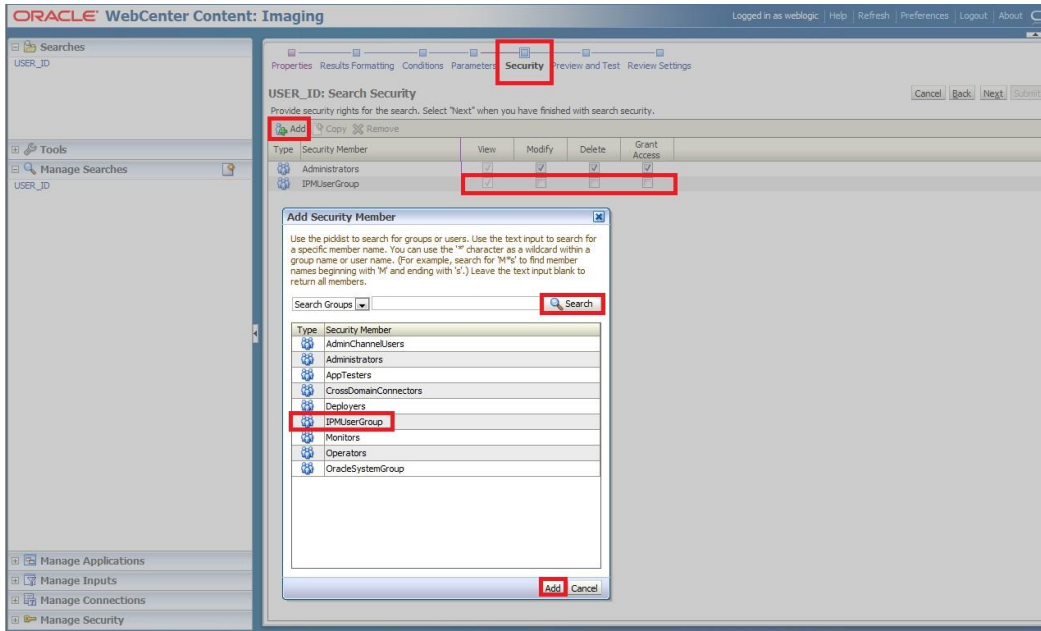
- a. Navigate to Document Security
- b. Click on Add button
- c. Click on Search button in the pop up window
- d. Select the "IPMUserGroup"
- e. Click on Add
- f. IPMUserGroup will be listed in the panel, select view ,write,annotate Standard,Annotate Restricted and Annotate Hidden checkboxes.
- g. Finally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



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



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



9. Copy the FCJJPSPProvider.jar to location

<ORACLE_HOME >\user_projects\domains\<domain name>\lib

10. Go to the location – '<ORACLE_HOME>\

user_projects\domains\<Domain_created>\config\fmwconfig'

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

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

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

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

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

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

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

1.2.10 Configuring Supervisor Roles in EM

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

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The top navigation bar shows 'ORACLE Enterprise Manager Fusion Middleware Control 12c' and 'WebLogic Domain' with a dropdown menu. The main content area is titled 'Target Navigation' and shows a tree view of the system. The 'Security' folder is expanded, and the 'Application Roles' sub-menu is selected. The right-hand pane shows the configuration details for the selected application role, including a 'Description' field and a 'Detach' button. The interface also shows a 'Delete...' button and a search bar for application stripes.

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

10184.133.168.7401/em/faces/as/security/appRolesMain?type=oracle_soainfra&target=/Domain_soa_domain/soa_domain/soa_server1/soa-infra#

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

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

soa-infra | SOA Infrastructure

Mar 21, 2016 12:30:59 PM IST

Application Roles

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

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

Policy Store Provider

Search

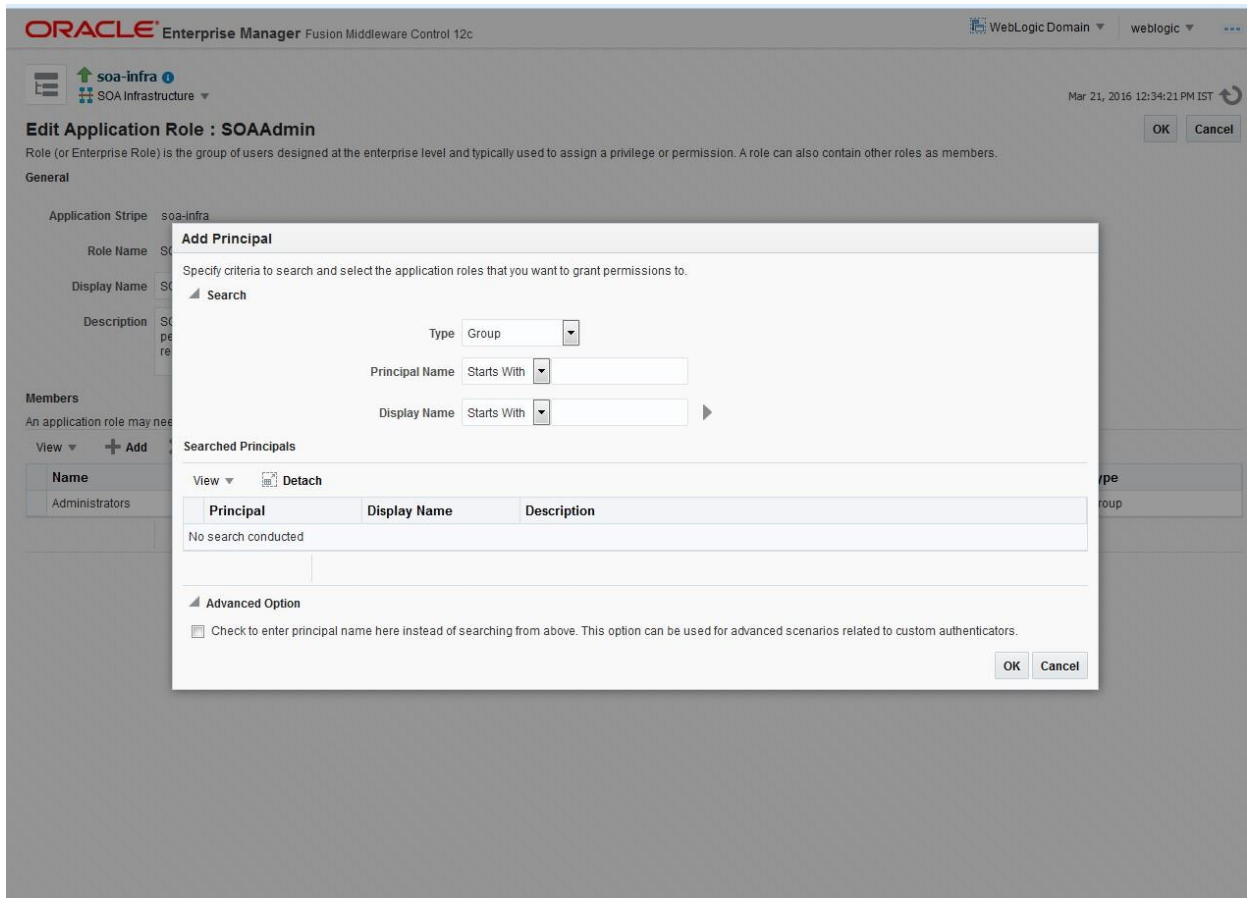
Enter search keyword for role name to query roles defined by this application. Use application stripe to search if application uses a stripe that is different from application name.

Role Name Starts With

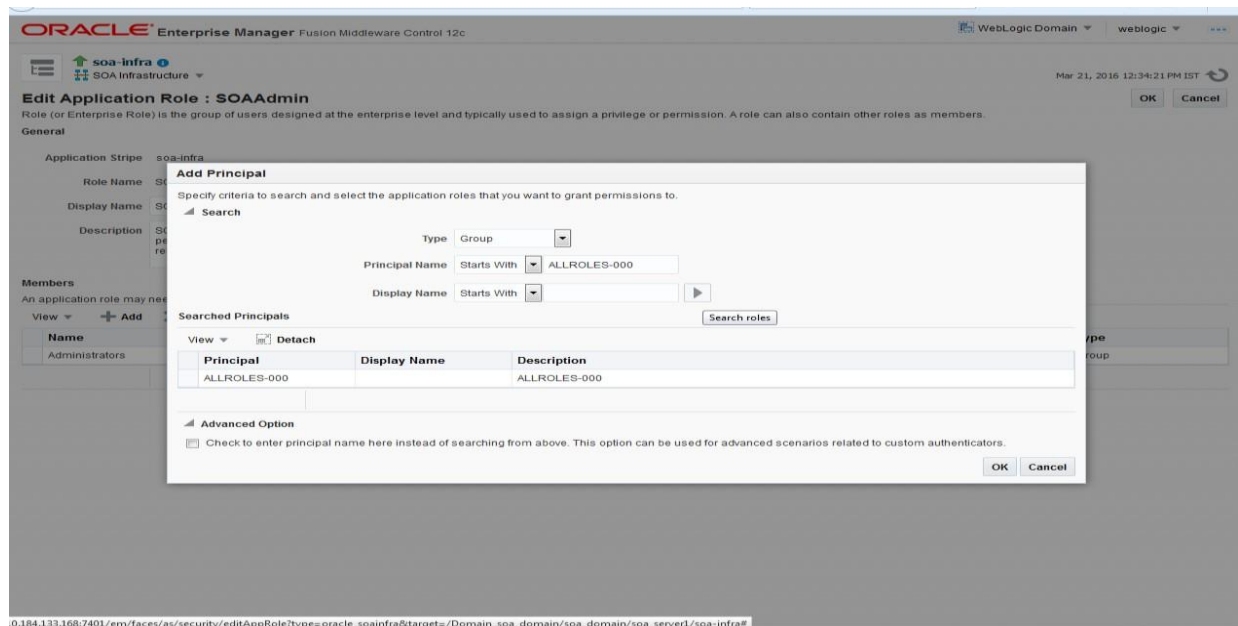
View Create... Create Like... Edit... Delete... Edit the selected application role

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

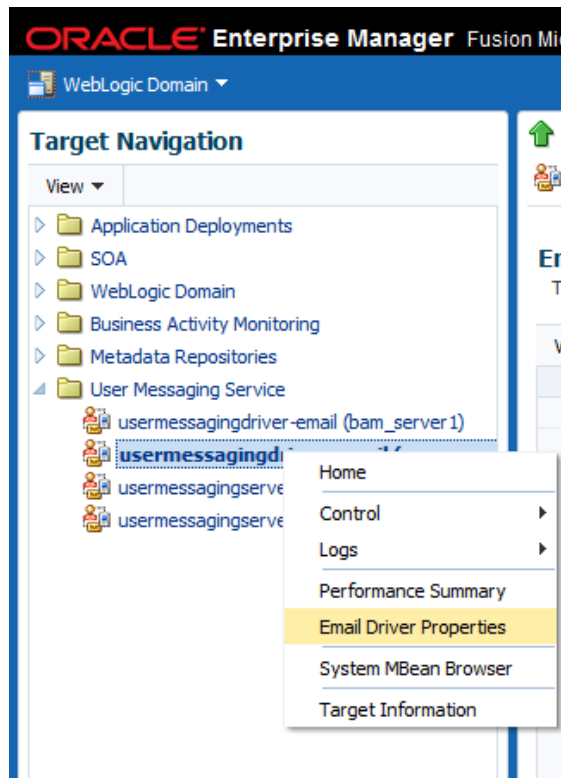


6. Click Ok .

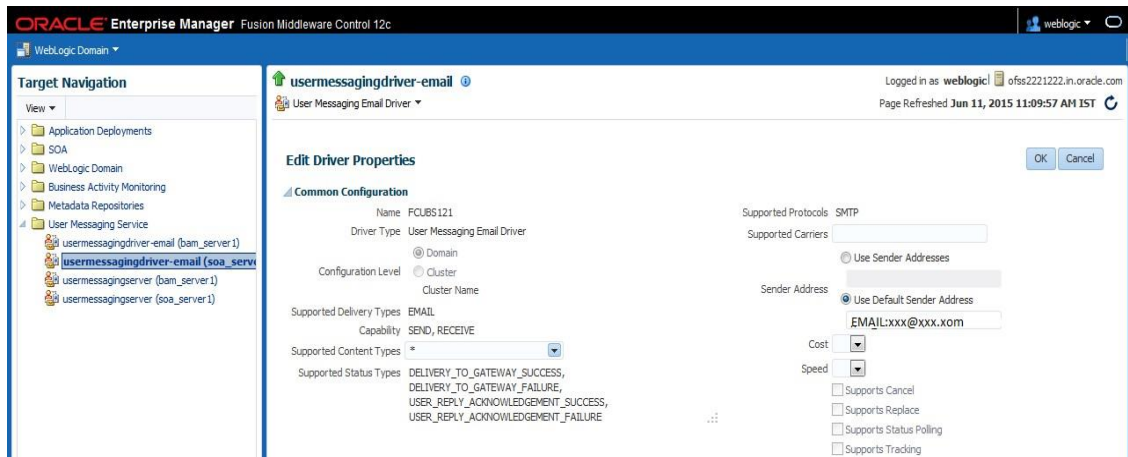
1.2.11 **Email Driver Configuration**

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

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



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



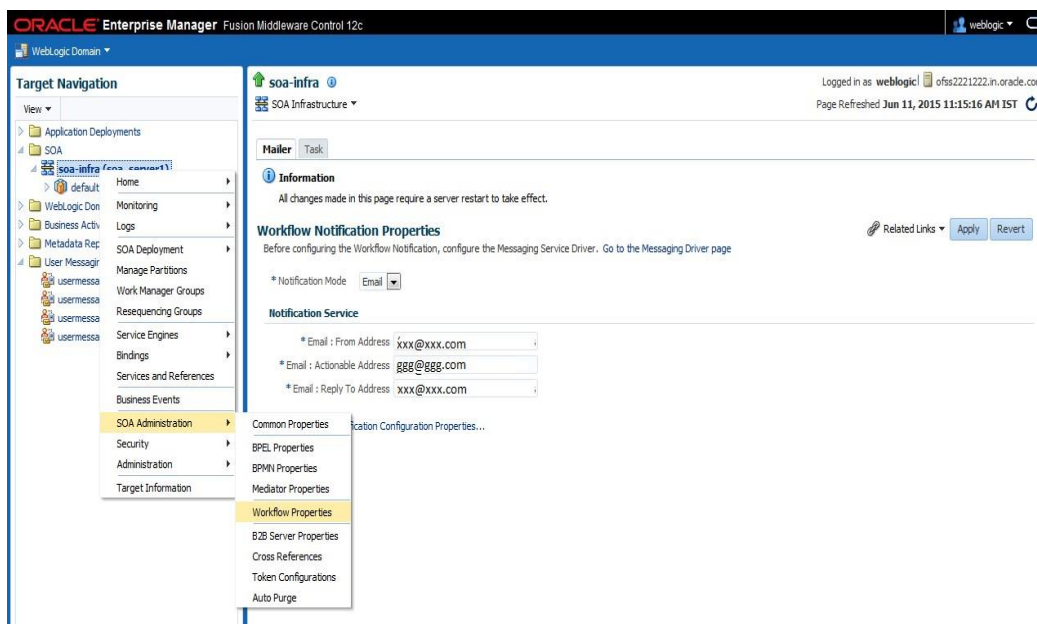
7. Select the mail access protocol (IMAP) as per the mail server specification

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

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

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

13. Navigate to SOA Administration ->Workflow Properties



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

1.2.12 TimeOut Settings for BPEL

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

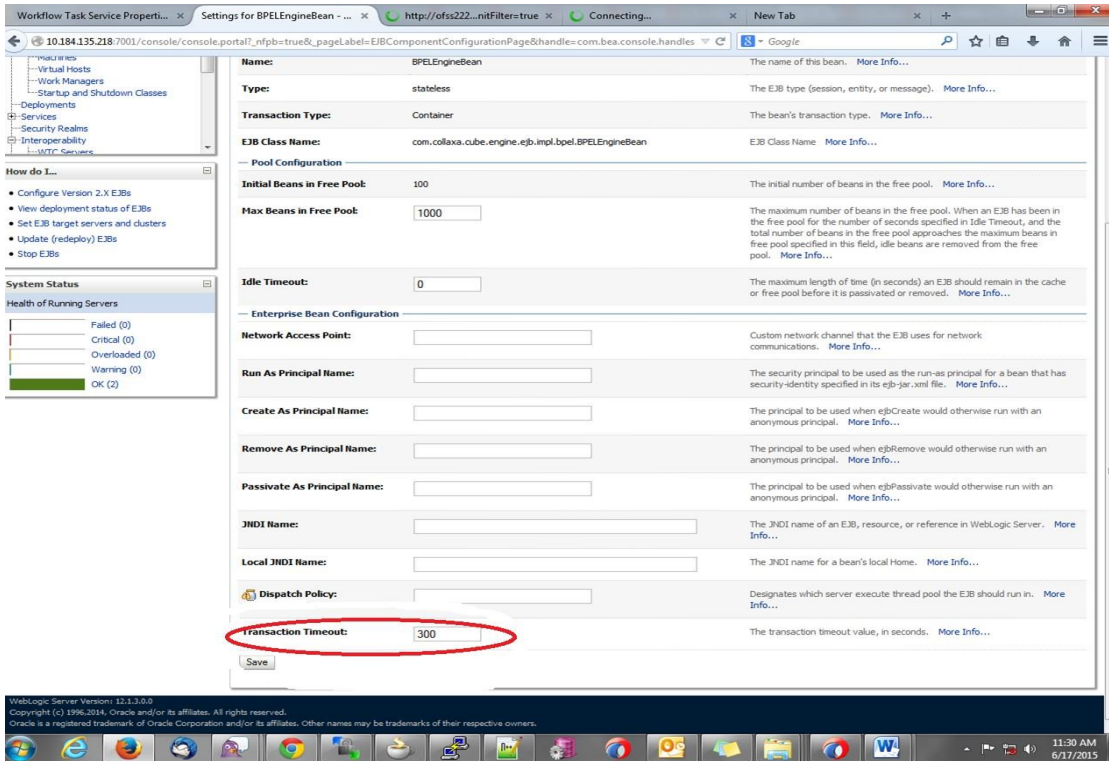
The screenshot displays the Oracle WebLogic Server Administration Console interface. The browser address bar shows the URL: 10.184.135.218:7001/console/console.portal?_nfpb=true&_pageLabel=HomePage1. The page title is "ORACLE WebLogic Server Administration Console 12c". The breadcrumb navigation path is: Home > AlphaDomain > Summary of Servers > AlphaDomain > Summary of Servers > Summary of Deployments > soa-infra > BPELEngineBean. The main content area is titled "Home Page" and contains several sections: "Information and Resources" with helpful tools and general information; "Domain Configurations" with sub-sections for Domain, Environment, Services, Interoperability, Diagnostics, and Charts and Graphs; and "Your Deployed Resources" where the "Deployments" link is circled in red. The left sidebar includes "Change Center", "Domain Structure", "How do I...", and "System Status".

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

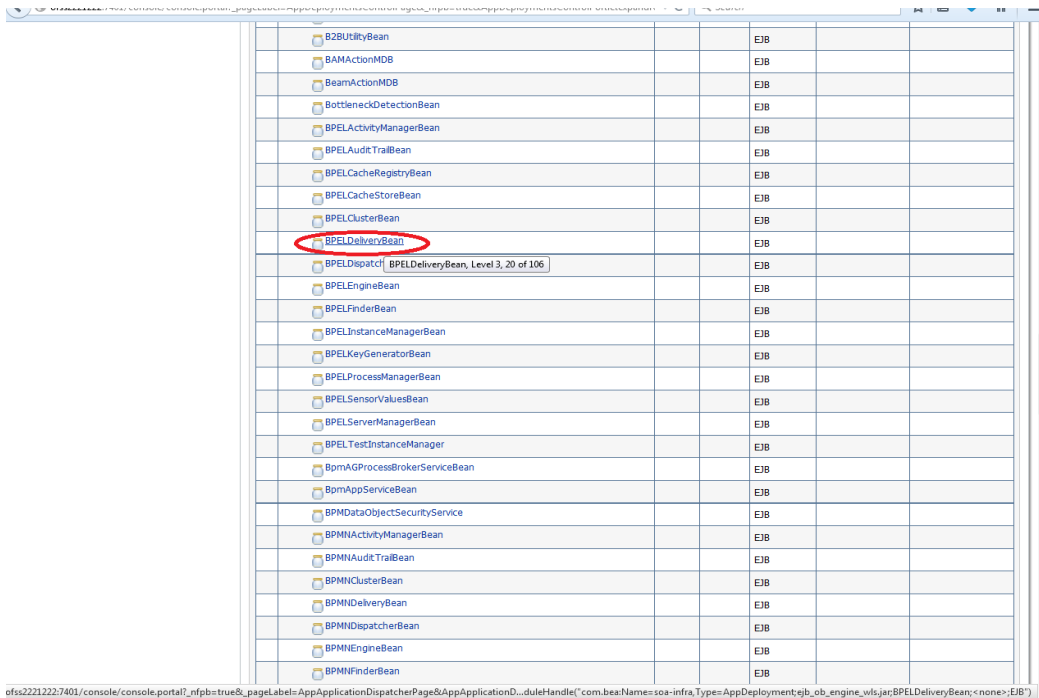
Name	State	Health	Type	Targets	Deployment Order
oracle.wsm.console.core.view(1.0,12.1.3.0)	Active		Library	AdminServer	311
oracle.wsm.seedpolicies(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
OracleBamAdapter	Installed		Resource Adapter		329
OracleBPMBACServerApp	Active	OK	Enterprise Application	SOAServer	384
OracleBPMComposerRolesApp	Active	OK	Enterprise Application	SOAServer	382
OracleBPMProcessRolesApp	Active	OK	Enterprise Application	SOAServer	381
OracleBPMWorkspace	Active	OK	Enterprise Application	SOAServer	383
oracl18n-advf(11.1.1.1.1.0)	Active		Library	AdminServer, BAMServer, SOAServer	100
owasp.esapi(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
SAPAdapter	Installed		Resource Adapter		325
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
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 BPEL Engine Bean → Configuration → set Transaction Timeout to 300.

B2BInstanceMessageBean	EJB
B2BIntegratorBean	EJB
B2BMetadataUtilityBean	EJB
B2BStarterBeanWLS	EJB
B2BUtilityBean	EJB
BAMActionMDB	EJB
BeamActionMDB	EJB
BottleneckDetectionBean	EJB
BPELActivityManagerBean	EJB
BPELAuditTrailBean	EJB
BPELCacheRegistryBean	EJB
BPELCacheStoreBean	EJB
BPELClusterBean	EJB
BPELDeliveryBean	EJB
BPELDispatcherBean	EJB
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.colaxa.cube.engine.ejb.mpl.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...

WebLogic Server Version: 12.1.3.0.0

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

The screenshot shows the Oracle WebLogic Server Administration Console 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 the WebLogic Server domain." The "Timeout Seconds" field is highlighted with a red circle and contains the value "3600". Other fields include "Abandon Timeout Seconds" (86400), "Before Completion Iteration Limit" (10), "Max Transactions" (10000), "Max Unique Name Statistics" (1000), and "Checkpoint Interval Seconds" (300). There are also checkboxes for "Write recovery logs when determiners configured" and "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) - ... Settings for AlphaDomain - Alp... http://ofss222...nitFilter=true Connecting... New Tab

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

ORACLE Enterprise Manager Fusion Middleware Control 12c admin

WebLogic Domain

Target Navigation

- Application Deployments
- SOA
 - soa-infra (5)
 - default
 - Monitoring [0]
 - Logs
 - SOA Deployment [1.0]
 - Manage Partitions
 - Work Manager Groups
 - Resequencing Groups
 - Service Engines
 - Bindings
 - Services and References
 - Business Events
 - SOA Administration
 - Common Properties
 - BPEL Properties**
 - BPMN Properties
 - Mediator Properties
 - Workflow Properties
 - B2B Server Properties
 - Cross References
 - Token Configurations
 - Auto Purge
 - Security
 - Administration
 - Target Information
 - CRPCLF
 - Credit
 - Credit
 - CRPClosureProcess [1.0]
 - CRPProcess [1.0]
 - CRPProcess [2.0]
 - CurrentAccountCreationWithCreditFacility
 - DBUtility [1.0]
 - DBUtility [2.0]
 - DeburseFCUBSORRetailLoanContract [1.0]
 - EQFXProcess [1.0]
 - EXPNProcess [1.0]
 - ExternalValuation [2.0]
 - InitiateFCUBSORRetailLoanPayment [1.0]
 - InitiateKYCCheckFCUBSORService [1.0]
 - InitiateRetailLoanContractFCUBSORService [1.0]
 - InitiateRetailLoanPaymentFCUBSORService [1.0]
 - InitiateRiskEvaluatorFCUBSORService [1.0]
 - KYCCheck [2.0]
 - KYCCorporateReview [2.0]
 - KYCRewiew [2.0]
 - LimitReview [1.0]
 - OpenCurrentAccount [2.0]
 - OpenRetailTermDeposit [1.0]

soa-infra SOA Infrastructure

Dashboard Deployed Composites Flow Instances Error Hospital

Key Configuration Business Transaction Faults Search

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

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

Composites and Adapters Availability

SOA Runtime Health

soa-infra (SOAServer)

Initialized Successfully

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

System Backlogs

Messages in Queues:

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

11:36 AM 6/17/2015

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

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

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain

Change Center

Target Navigation

- Application Deployments
- SOA
 - soa-infra (SOA Server)
 - default
 - AmendFCUBSORNFRetailLoanContract [1.0]
 - AmendFCUBSORRetailLoanContract [1.0]
 - AmendRetailLoanContractFCUBSORService [1.0]
 - BIPUtility [1.0]
 - BPelCOLLATProcess [1.0]
 - BPelCRPClosureProcess [1.0]
 - bpelcrpprocess [1.0]
 - 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]
 - EQFVProcess [1.0]
 - EXPNProcess [1.0]
 - ExternalValuation [2.0]
 - InitiateFCUBSORRetailPayment [1.0]
 - InitiateKYCheckFCUBSORService [1.0]
 - InitiateRetailLoanContractFCUBSORService [1.0]
 - InitiateRetailPaymentFCUBSORService [1.0]
 - InitiateRiskEvaluationFCUBSORService [1.0]
 - KYCCheck [2.0]
 - KYCCorporateReview [2.0]

soa-infra

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

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

System MBean Browser

Application Defined MBeans: BPelConfig:bpel

Information

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

Show MBean Information

Attributes Operations Notifications

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

11:37 AM 6/17/2015

1.3 **Integrating Oracle FLEXCUBE UBS and Scheduler**

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

1.3.1 **Running Backend Scripts**

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

Follow the steps given below:

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



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

1.4 **Integrating Oracle FLEXCUBE UBS and BIP Reports**

You can integrate Oracle FLEXCUBE UBS and BIP reports. The details are available in the chapter 'BIP Web Service Reports'.

1.4.1 **Deploying Application Through Application Server's Admin Console**

Deployment from Weblogic Administration Console

You can find the details pertaining to the deployment of Application using Weblogic Administration Console in the chapter 'Deploying Oracle FLEXCUBE Application on Weblogic'.

1.5 **Integrating Oracle FLEXCUBE UBS and MBean**

In order to integrate Oracle FLEXCUBE UBS and MBean, you need to follow the below steps before deploying the Oracle FLEXCUBE UBS EAR file created with MBean as a Plugin.

1.5.1 **Startup Script Modification**

By default, the TopLink used in MBean uses Oracle xml parser internally. However, Weblogic Server has to use JAXPlatform.

To change the system property, follow the steps given below:

1. Go to the Weblogic domain home folder.
 - c) Based on the operating system used, open 'startWeblogic.cmd' or 'startWeblogic.sh' from the folder 'bin'.

- d) Search for 'WLS_REDIRECT_LOG'. After '%JAVA_OPTIONS%' add the following code under 'if' and 'else' conditions.

```
"-Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform"
```

Now, the details will look like this:

```
if "%WLS_REDIRECT_LOG%"==" " (

    echo Starting WLS with line:

    echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%JAVA_OPTIONS% %PROXY_SETTINGS% %SERVER_CLASS%

    %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%JAVA_OPTIONS% -
Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
%PROXY_SETTINGS% %SERVER_CLASS%

) else (

    echo Redirecting output from WLS window to %WLS_REDIRECT_LOG%

    %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%JAVA_OPTIONS% -
Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
%PROXY_SETTINGS% %SERVER_CLASS% >"%WLS_REDIRECT_LOG%" 2>&1

)
```

- e) Restart the Weblogic server.



Setting up Plug - Ins
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