

Setting up Plug-Ins
Oracle FLEXCUBE Investor Servicing
Release 14.5.4.0.0
[May] [2022]



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1. Setting_up_Plugins

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.

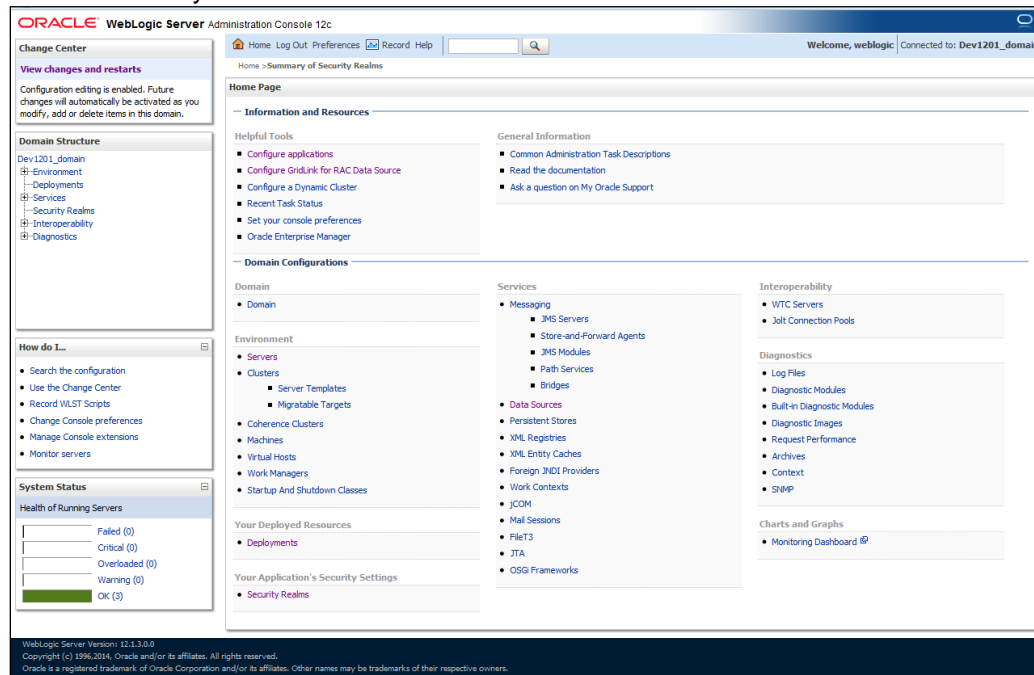
1.2 Integrating Oracle FLEXCUBE IS and BPEL

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

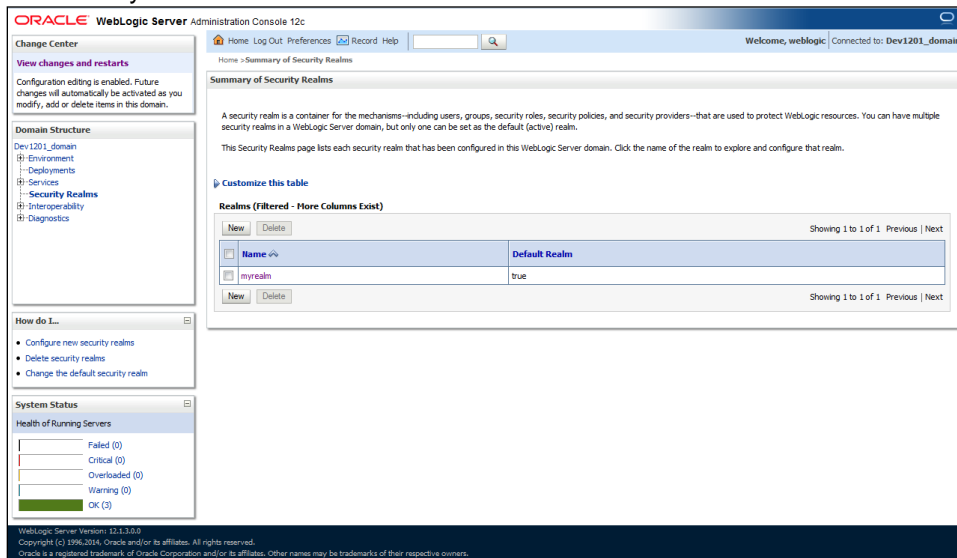
1.2.1 Custom Provider Configuration

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:

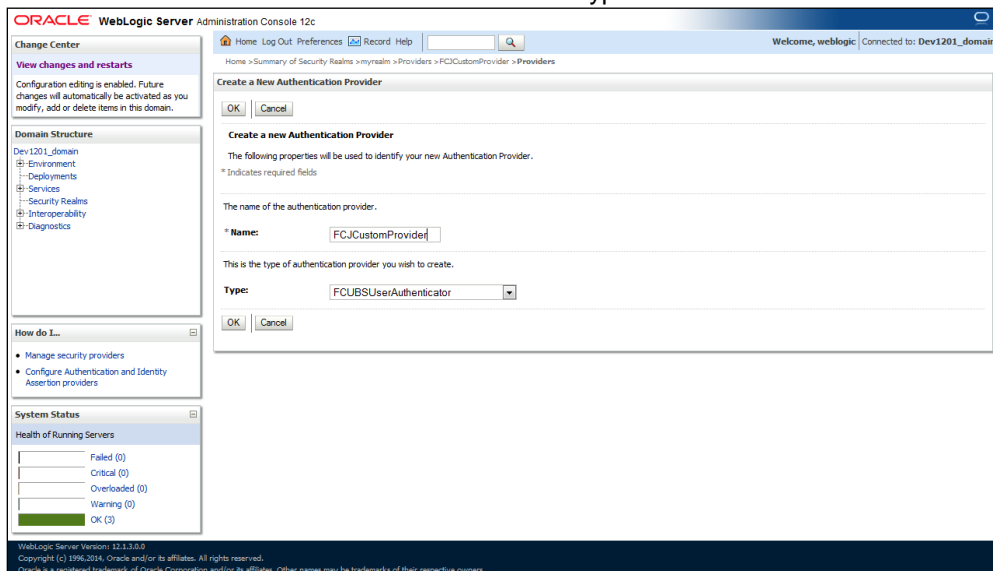
1. Along with FCIS Ear file, Installer creates FCUBSAuthenticationProvider.jar file. Copy this files to <ORACLE_HOME>\wlserver\server\lib\mbeantypes
2. Restart the Admin Server
3. Login to the Console
4. Click on Security Realms.



5. Click on myrealm.



6. Click on Providers tab and click on new button to create new authentication provider.
7. Give Provider name as FCJCustomProvider and type as FCUBSUserAuthenticator.



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

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

Name	Description	Version
FCJCustomProvider	Authentication provider for FLEXCUBE users	FCUBS 12.1
Trust Service Identity Asserter	Trust Service Identity Assertion Provider	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

The screenshot shows the 'Reorder Authentication Providers' dialog box. The 'Available' list contains the providers: FCJCustomProvider, Trust Service Identity Asserter, DefaultAuthenticator, and DefaultIdentityAsserter. The 'Reorder' button is highlighted with a red box.

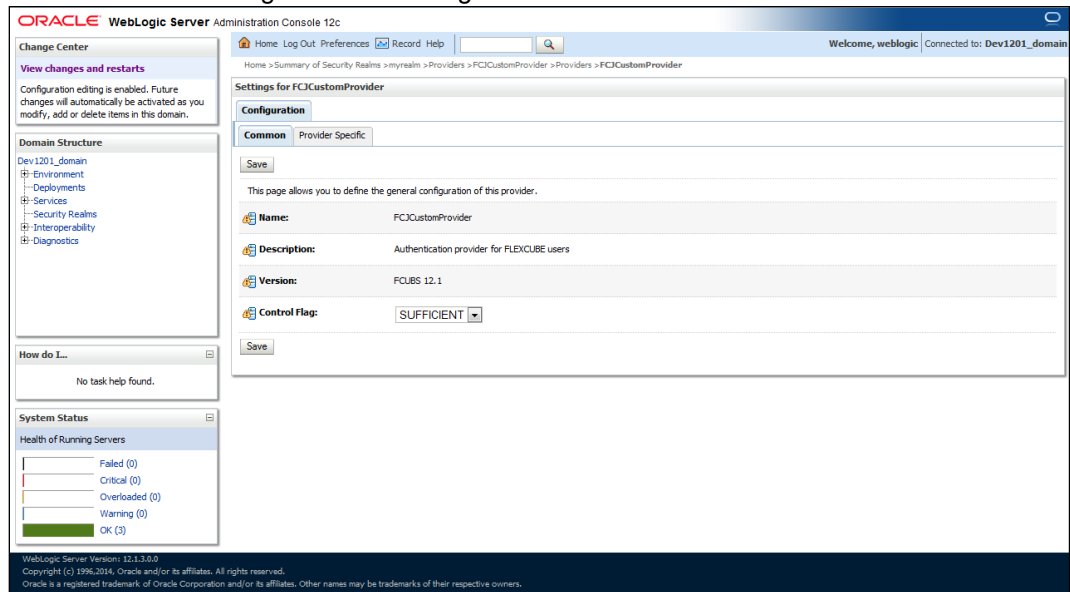
You can reorder your Authentication Providers using the list below. By reordering Authentication Providers, you can alter the authentication sequence.

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

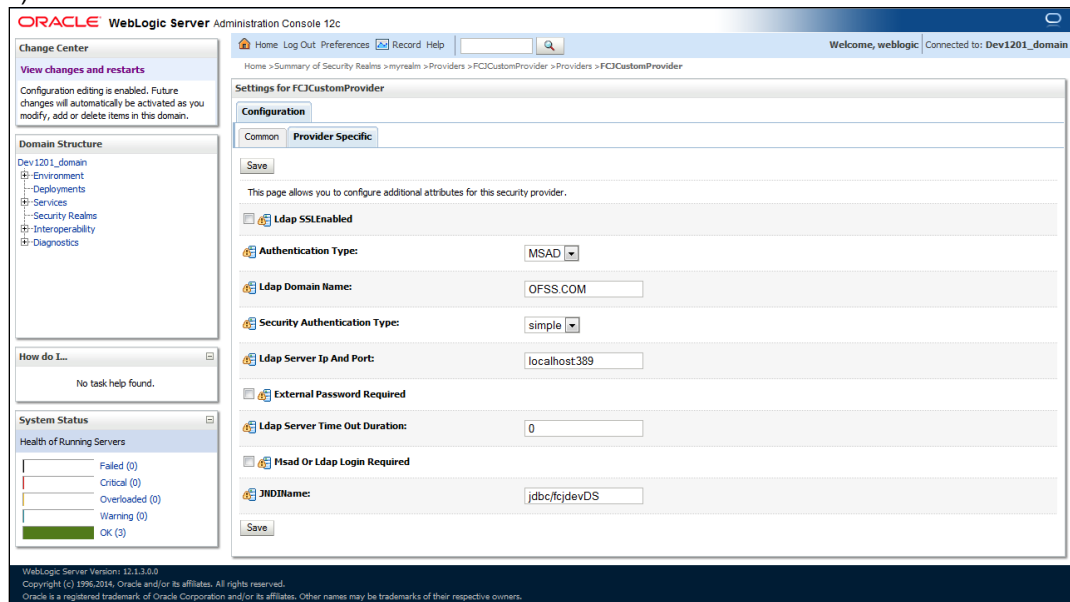
Available:

- FCJCustomProvider
- Trust Service Identity Asserter
- DefaultAuthenticator
- DefaultIdentityAsserter

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



11. In Provider Specific tab
 - a) Set JNDIName as Flexcube JNDI Name.
 - b) If external authentications used in FCIS then Fill the LDAP/MSAD related fields.



12. For manually editing the config.xml go to
`<ORACLE_HOME>\Middleware\user_projects\domains\base_domain\config\` path. Open config.xml file. The following codes need to be added at proper locations in the config.xml.
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 IS EAR file, the Installer creates 'FCBPELCIS.jar' file.
2. Create a folder by name 'classes' at the location
'`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x`'.
3. Extract the file 'FCBPELCIS.jar' and copy the content of the folder 'com' to:
'`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes`'.
4. Navigate to the location
'`<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x\classes\com\ofss\fcc\bpel\cac`'. Edit the properties file 'CISProperties.properties' and update 'JNDI.name' with the JNDI name defined in the properties file 'fcubs.properties'.
5. Copy 'FCBPELCIS.jar' to
'`<MIDDLEWARE_HOME>/user_projects/domains/<domain_name>/config/fmwconfig/ovd/plugins/lib`. Create the directory structure if it does not exists.
6. Copy the fcubs_adapter.xml to
'`<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/`




fcubs_adapter.xml

7. Search for `<FCUBSDATASOURCE>` in fcubs_adapter.xml and update it with fcubs Datasource name.

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


```
libovdadapterconfig.sh -adapterName fcubsAdapter -adapterTemplate fcubs_adapter.xml -host <ADMIN_SERVER_HOST> -port <ADMIN_PORT> -userName <WEBLOGIC_USERID> -domainPath <DOMAIN_HOME> -dataStore DB -root ou=fcubs,dc=oracle,dc=com -contextName default -dataSourceJNDIName <FCUBSDATASOURCE>
```
9. Once the above steps are completed, restart the server.

1.2.3 **Configuring libovd for MultiEntity**

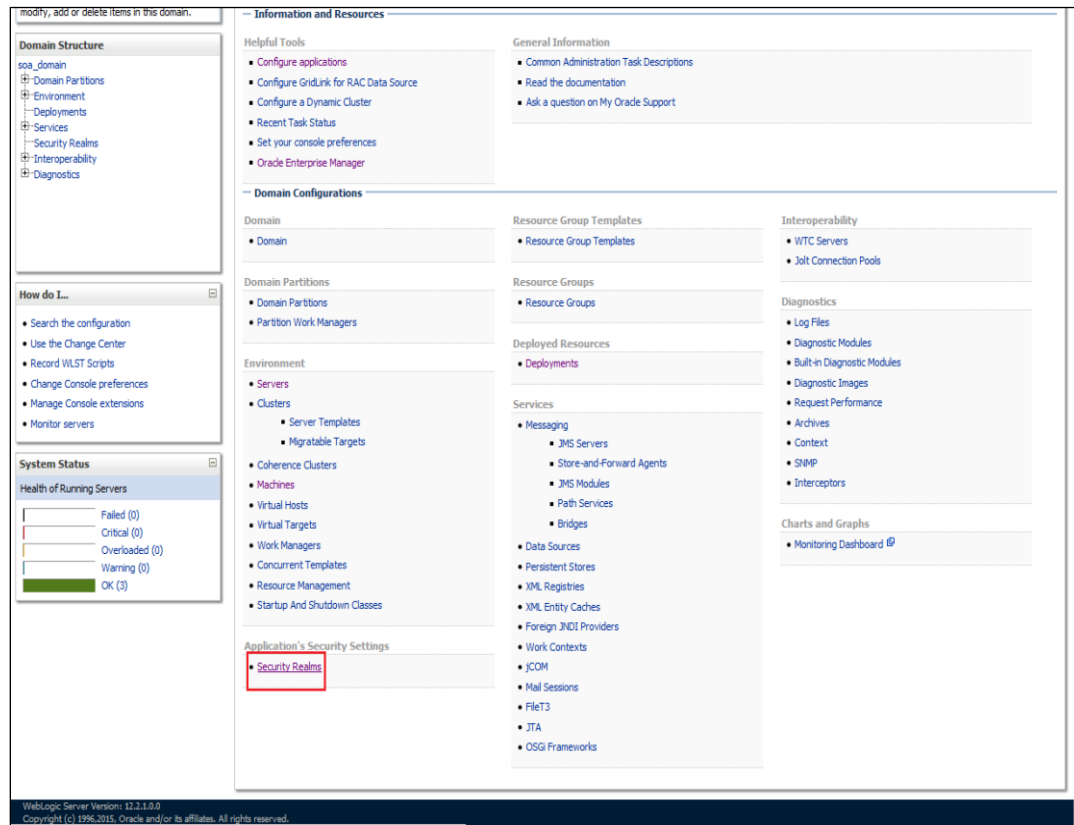
1. Continue step 1 to step5 from 1.2.2 section.
2. In the following steps replace the `<EntityId>` tag with the proper Entity name.
3. Copy the `fcubs_adapter_<EntityId>.xml` to '`<MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/`

`fcubs_adapter_<EntityId>.xml`
4. Search for `<FCUBSDATASOURCE>` in `fcubs_adapter_<EntityId>.xml` and update it with fcubs Datasource with the mapped Datasource for the entity in the property file.
 Ex: `<param name="DataSource" value="<FCUBSDATASOURCE>"/>`
5. Search for UserIdPattern Parameter and Update the value for OU to the entity name.
 EX: `<param name="UserIdPattern" value="cn=%USERID%,ou=<EntityId>,dc=oracle,dc=com"/>`
6. Search for MultiEntityEnabled element and update the value to true.
 EX: `<param name="MultiEntityEnabled" value="true"/>`
7. Search for EntityId element and update the value with the entity name which we have created.
 EX: `<param name="EntityId" value="<EntityId>"/>`
8. Execute "libovdadapterconfig" script which is present in '`<MIDDLEWARE_HOME>/oracle_common/bin`' with below parameters. Update the admin server host name or ip ,admin server port ,weblogic user id, domain home ,root and fcubs datasource


```
libovdadapterconfig.sh -adapterName fcubsAdapter -adapterTemplate fcubs_adapter_<EntityId>.xml -host <ADMIN_SERVER_HOST> -port <ADMIN_PORT> -userName <WEBLOGIC_USERID> -domainPath <DOMAIN_HOME> -dataStore DB -root ou=<EntityId>,dc=oracle,dc=com -contextName default -dataSourceJNDIName <FCUBSDATASOURCE name which we mapped in step4>
```
9. Repeat from step2 to step7for each entity creation

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

1.2.4 Configuring for Multiple Providers for Multiple Entities

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



3. Click on myrealms.

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The left sidebar contains the 'Change Center' with a 'View changes and restarts' link, a 'Domain Structure' tree with 'Security Realms' selected, and 'System Status' showing 'Health of Running Servers' with 3 OK, 0 Failed, 0 Critical, 0 Overloaded, and 0 Warning. The main content area is titled 'Summary of Security Realms'. It includes a description of security realms and a table of configured realms. The table has columns for 'Name' and 'Default Realm'. The 'myrealm' entry is highlighted, and its 'Default Realm' is 'true'. The page also includes a 'Customize this table' link and a 'New' button.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa_domain

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

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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4. Click on Providers.

The screenshot shows the Oracle WebLogic Server Administration Console 12c, specifically the 'Providers' configuration page for the 'myrealm' security realm. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers' (selected), and 'Migration'. The 'Providers' tab is further divided into 'General', 'RDBMS Security Store', 'User Logout', 'Performance', and 'Providers-Tab'. The 'General' sub-tab is active. It contains a 'Save' button, a note about JACC, and several configuration options: 'Name' (myrealm), 'Security Model Default' (DD Only), 'Combined Role Mapping Enabled' (checked), 'Use Authorization Providers to Protect JMX Access' (unchecked), 'Automatically Restart After Non-Dynamic Changes' (unchecked), and 'Retire Timeout' (60). The page also includes a 'Save' button at the bottom.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa_domain

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

Settings for myrealm

[Configuration](#) [Users and Groups](#) [Roles and Policies](#) [Credential Mappings](#) [Providers](#) [Migration](#)

[General](#) [RDBMS Security Store](#) [User Logout](#) [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 12c. The left sidebar contains the 'Change Center' with a 'View changes and restarts' link, a 'Domain Structure' tree, and a 'How do I...' section. The main area displays the 'Providers' tab for a security realm. It includes a 'Customize this table' link and a table of 'Authentication Providers'. The table has columns for 'Name', 'Description', and 'Version'. The providers listed are FCUBS, Trust Service Identity Assertion, DefaultAuthenticator, and DefaultIdentityAssertion. The 'FCUBS' provider is highlighted.

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

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

The screenshot shows the 'Create a New Authentication Provider' dialog in the Oracle WebLogic Server Administration Console. The dialog has a 'Name' field with the value 'ENTITYID' and a 'Type' dropdown menu with the value 'FCUBSUserAuthenticator'. The 'Name' field is highlighted with a red box.

Create a New Authentication Provider

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

* Indicates required fields

The name of the authentication provider.

Name: ENTITYID

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

Type: FCUBSUserAuthenticator

- ORACLE

WebLogic Server Administration Console 12c

Home

Log Out

Preferences

Record

Help

Welcome, weblogic

Connected to: soa_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

soa_domain

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

How do I...

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

System Status

Health of Running Servers

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

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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- ORACLE WebLogic Server** Administration Console 12c

Welcome, weblogic Connected to: soa_domain

Home Log Out Preferences Record Help

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

Settings for myrealm

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

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

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

[Customize this table](#)

Authentication Providers

New Delete Reorder Showing 1 to 5 of 5 Previous | Next

Name	Description	Version
ENTITYID	Authentication provider for FLEXCUBE users	FCLUBS 12.2
FCLUBS	Authentication provider for FLEXCUBE users	FCLUBS 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 5 of 5 Previous | Next

Change Center

View changes and restarts

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

Domain Structure

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

How do I...

 - Configure Authentication and Identity Assertion providers
 - Configure the Password Validation provider
 - Manage security providers
 - Set the JAAS control flag
 - Re-order Authentication providers

System Status

Health of Running Servers

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

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9. In Common tab, select the control flag as SUFFICIENT from the list and click Save.

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The left sidebar contains the 'Change Center' with a 'View changes and restarts' link, a 'Domain Structure' tree, a 'How do I...' section, and a 'System Status' section showing 'Health of Running Servers' with 3 OK, 0 Warning, 0 Overloaded, 0 Critical, and 0 Failed. The main content area is titled 'Settings for ENTITYID' and has two tabs: 'Common' (selected) and 'Provider Specific'. The 'Common' tab contains a 'Configuration' section with a 'Save' button and a description: 'This page allows you to define the general configuration of this provider.' Below this are fields for 'Name' (ENTITYID), 'Description' (Authentication provider for FLEXCUBE users), 'Version' (FQBS 12.2), and 'Control Flag' (SUFFICIENT). A 'Save' button is at the bottom of the configuration section. The top navigation bar includes links for Home, Log Out, Preferences, Record, and Help, along with a search bar and user information: 'Welcome, weblogic' and 'Connected to: soa_d'.

10. Select the provider Specific tab.

The screenshot shows the Oracle WebLogic Server Administration Console 12c, specifically the 'Settings for ENTITYID' page in the 'Provider Specific' tab. The left sidebar is identical to the previous screenshot. The main content area has the 'Provider Specific' tab selected. It contains a 'Configuration' section with a 'Save' button and a description: 'This page allows you to configure additional attributes for this security provider.' Below this are several configuration fields: 'Ldap Server Ip And Port' (localhost:389), 'JNDIName' (jdbc/cjdevDS), 'External Password Required' (unchecked), 'Ldap Server Time Out Duration' (0), 'Multi Entity Enabled' (unchecked), 'Security Authentication Type' (simple), 'Entity Id' (ENT1), 'Ldap Domain Name' (OFSS.COM), 'Ldap SSL Enabled' (unchecked), 'Msad Or Ldap Login Required' (unchecked), and 'Authentication Type' (MSAD). A 'Save' button is at the bottom of the configuration section. The top navigation bar is identical to the previous screenshot.

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with a 'View changes and restarts' button, a 'Domain Structure' tree, and a 'System Status' section. The main area displays the 'Settings for ENT1TYID' configuration page. The 'Configuration' tab is active, and the 'Provider Specific' sub-tab is selected. The 'JNDI Name' field is highlighted with a red box and contains the value 'jdbc/fjdevDS'. Below it, the 'Multi Entity Enabled' checkbox is checked and also highlighted with a red box. Other fields include 'Ldap Server Ip And Port' (localhost:389), 'Ldap Server Time Out Duration' (0), 'Security Authentication Type' (simple), 'Entity Id' (ENT1), 'Ldap Domain Name' (OFSS.COM), and 'Authentication Type' (MSAD). A 'Save' button is at the bottom of the configuration section.

12. Enter the Entity ID with the Entity name which we created in the property file level and click Save

This screenshot shows the same Oracle WebLogic Server Administration Console configuration page for ENT1TYID. In this step, the 'Entity Id' field has been updated to 'ENT1' and is highlighted with a red box. The 'Multi Entity Enabled' checkbox remains checked. All other configuration details, including the 'JNDI Name' (jdbc/fjdevDS) and the 'Save' button, are consistent with the previous screenshot.

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 multi entity 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 the 'Domain Structure' tree with 'Dev1201_domain' selected, and 'Deployments' expanded. The main content area is titled 'Summary of Deployments' and shows a table of applications and modules.

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
ibizbul	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
OMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSApp (12.1.0.0)	Prepared	OK	Enterprise Application	soa_server1	500

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

The screenshot displays the Oracle WebLogic Server Administration Console. The main window is titled 'Settings for DbAdapter'. The 'Configuration' tab is selected, and the 'Outbound Connection Pools' sub-tab is active. The 'Outbound Connection Pool Configuration Table' shows a single entry for 'javax.resource.cci.ConnectionFactory' under the 'Groups and Instances' column. The 'Connection Factory Interface' column also shows 'javax.resource.cci.ConnectionFactory'. The left sidebar shows the 'Domain Structure' with 'Dev1201_domain' expanded, and 'System Status' showing 'OK (2)'.

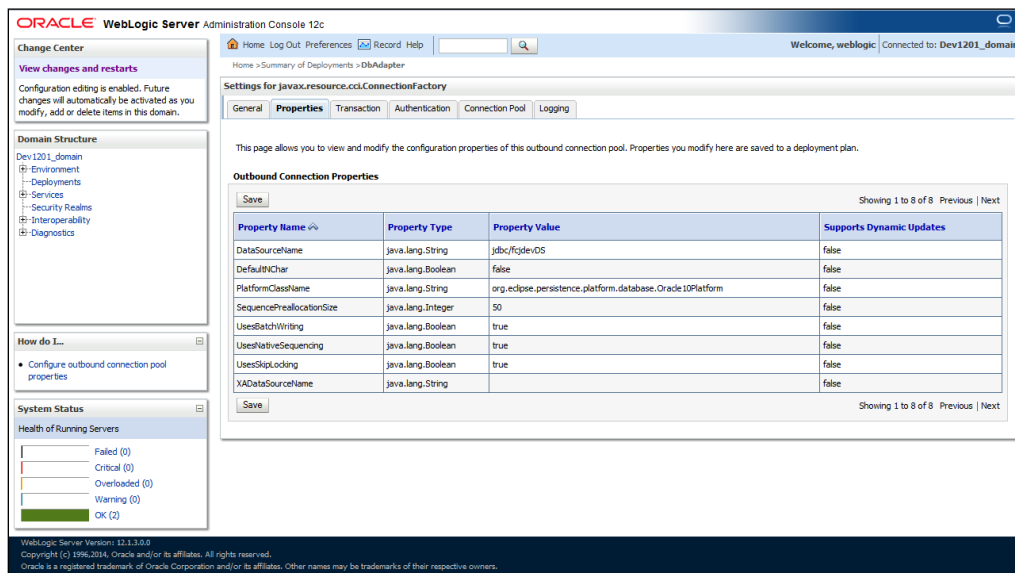
3. Click 'Configuration' tab and select 'Outbound Connection Pools' under it.
4. Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
5. Click 'New' and select 'javax.resource.cci.ConnectionFactory' in Outbound Connection Group.
6. Define 'JNDI Name' as 'eis/DB/FCCDEV'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



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

7. Click 'DbAdapter' again. The new JNDI name is listed.

8. Click on the hyperlink 'eis/DB/FCCDEV'.

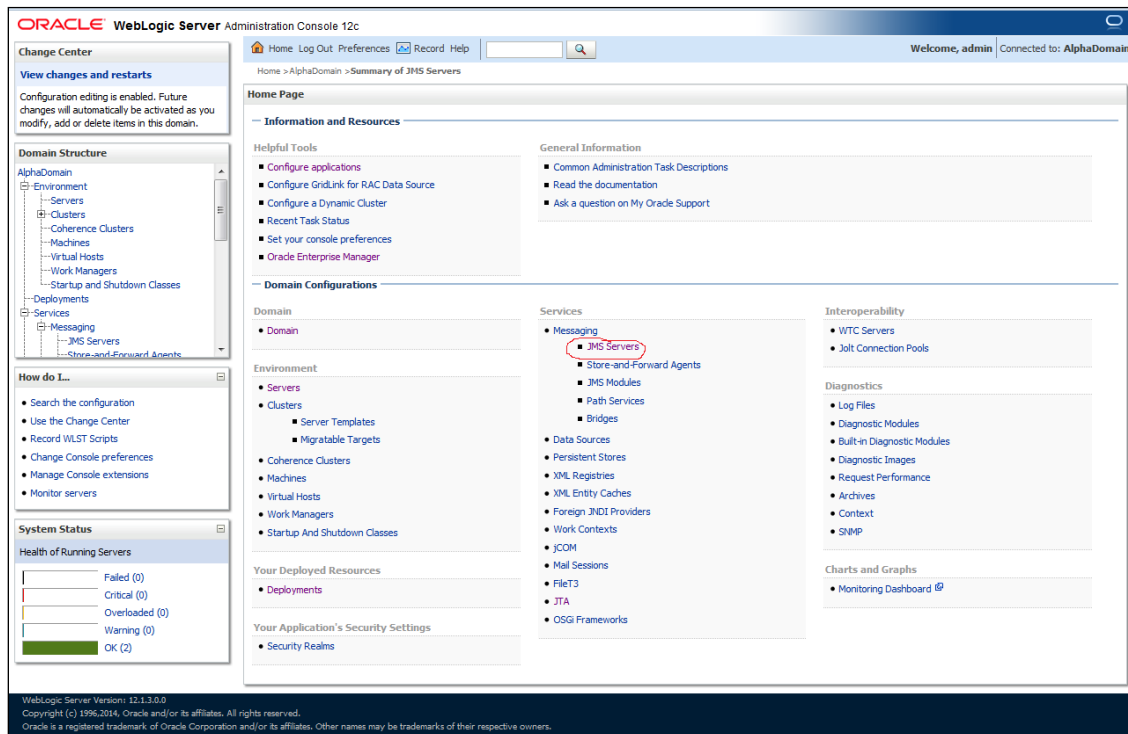


9. Click the 'Property Value' field for the 'DataSourceName' and update the application JNDI reference (given in 'fcubs.properties' file) and then press 'Enter' key.

10. Save and restart the Adminserver.

1.2.6 Configuring JMS Adapter

Login in to console → Click on JMS Servers→New



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 Servers

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

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

[Customize this table](#)

JMS Servers (Filtered - More Columns Exist)

New Delete Showing 1 to 8 of 8 Previous | Next

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

New Delete Showing 1 to 8 of 8 Previous | Next

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Home > AlphaDomain > Summary of JMS Servers

Create a New JMS Server

Back Next Finish Cancel

JMS Server Properties

The following properties will be used to identify your new JMS Server.

* Indicates required fields

What would you like to name your new JMS Server?

Name: FCUBSJMServer

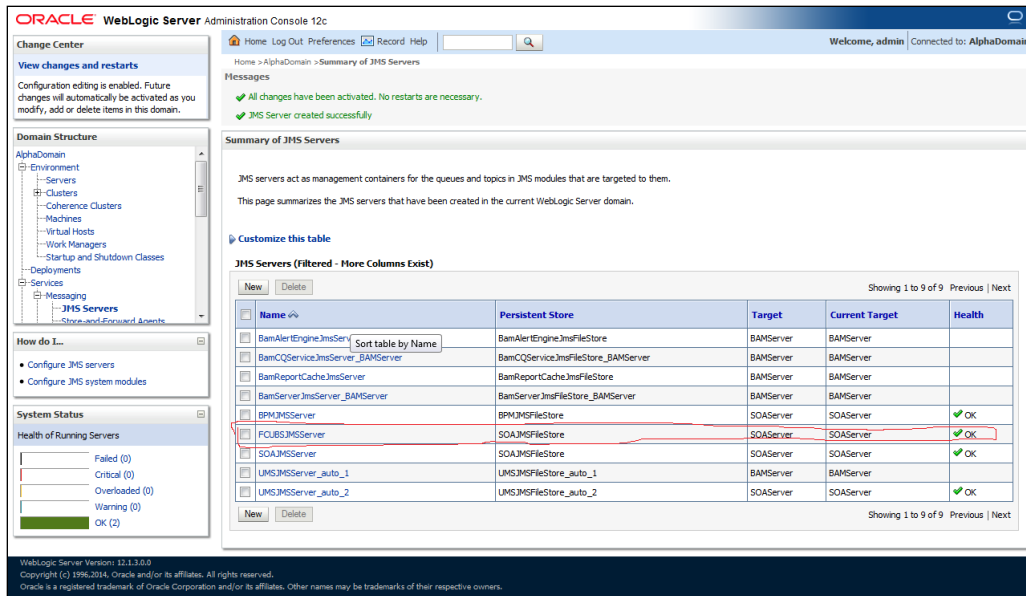
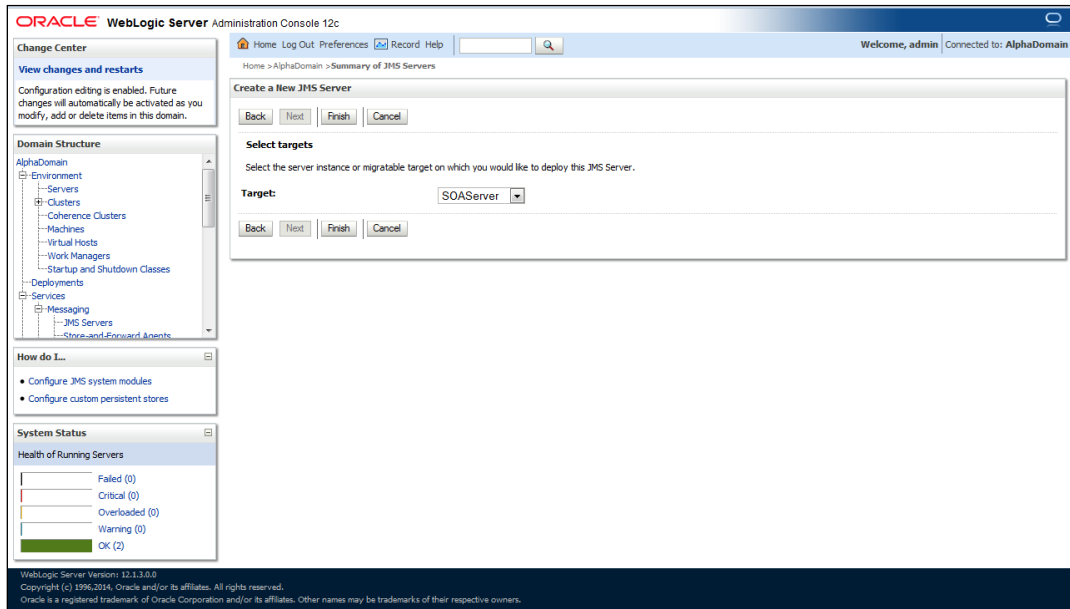
Specify persistent store for the new JMS Server.

Persistent Store: SOAJMSFileStore Create a New Store

Back Next Finish Cancel

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12. Select the target as SOA Server →Finish



4. Go back to Console → JMS Modules → New

The top screenshot shows the Oracle WebLogic Server Administration Console 12c. The left sidebar contains the 'Domain Structure' tree with 'JMS Modules' highlighted under 'Services'. The main content area shows the 'Summary of JMS Modules' page. The 'JMS Modules' table is empty, and the 'New' button is highlighted in the top left corner of the table.

The bottom screenshot shows the 'JMS Modules' table with the following data:

Name	Type
BanAlertEngineJmsSystemModule	System
BanCQServiceJmsSystemResource_BAMServer	System
BanReportCacheJmsSystemModule	System
BanServerJmsSystemResource	System
BPMJmsModule	System
SOAJmsModule	System
UMSAQJmsSystemResource	System
UMSJmsSystemResource	System

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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

Create JMS System Module

Back Next Finish Cancel

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

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

* Indicates required fields

What would you like to name your System Module?

* Name:

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

Descriptor File Name:

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

Location In Domain:

Back Next Finish Cancel

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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

Create JMS System Module

Back Next Finish Cancel

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

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

Targets:

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

Back Next Finish Cancel

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ORACLE WebLogic Server Administration Console 12c

Welcome, admin | Connected to: AlphaDomain

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

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

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

How do I...
No task help found.

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

Messages
All changes have been activated. No restarts are necessary.
The JMS 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

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1. Go back to JMS Modules→FCUBSJMSModule→New

ORACLE WebLogic Server Administration Console 12c

Welcome, admin | Connected to: AlphaDomain

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

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](#)

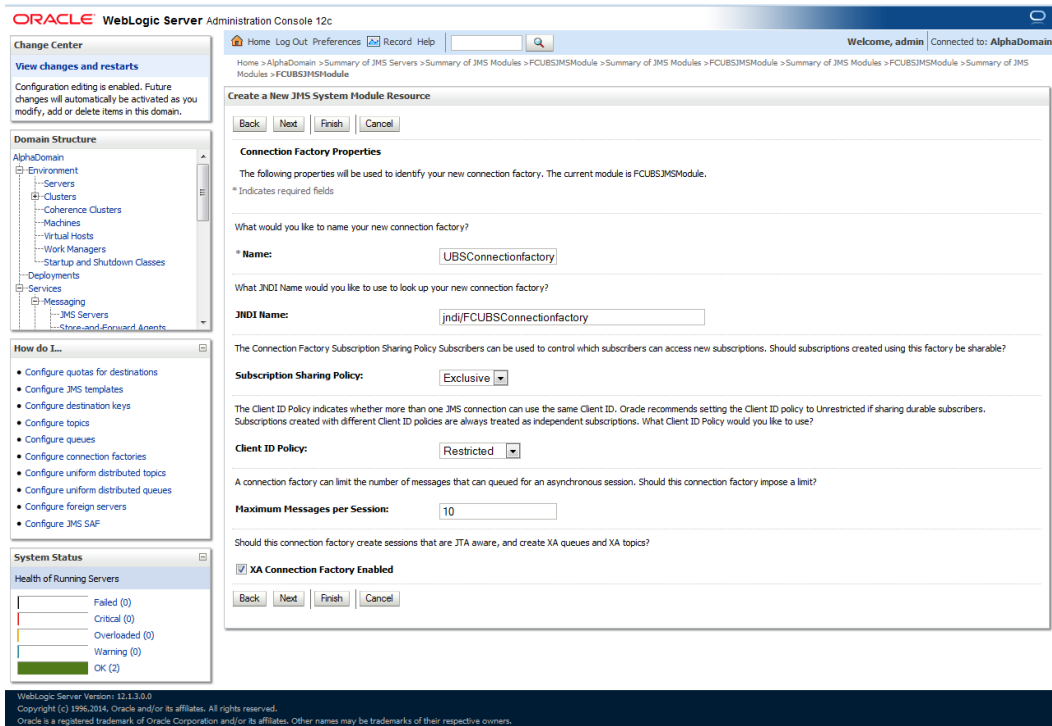
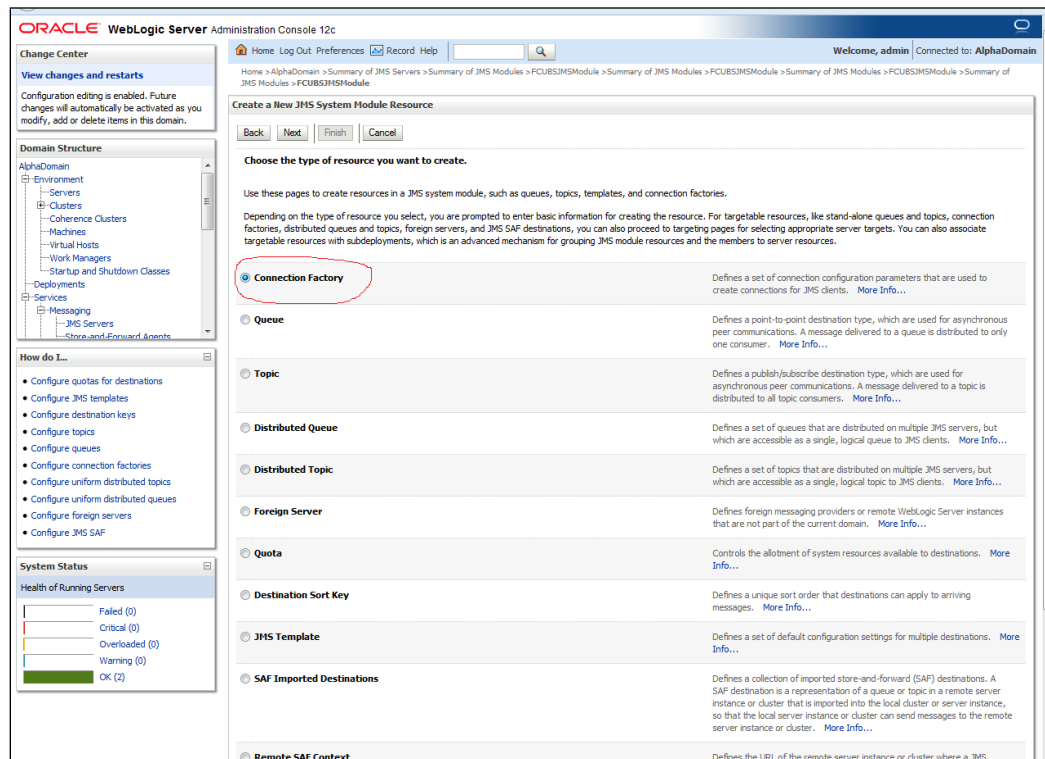
Summary of Resources
New Delete Showing 0 to 0 of 0 Previous | Next

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

New Delete Showing 0 to 0 of 0 Previous | Next

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



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

ORACLE WebLogic Server Administration Console 12c

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

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

Create a New JMS System Module Resource

Back Next Finish Advanced Targeting Cancel

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

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

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

Targets:

Servers

☒ SOAServer

Back Next Finish Advanced Targeting Cancel

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ORACLE WebLogic Server Administration Console 12c

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

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

Create a New 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.

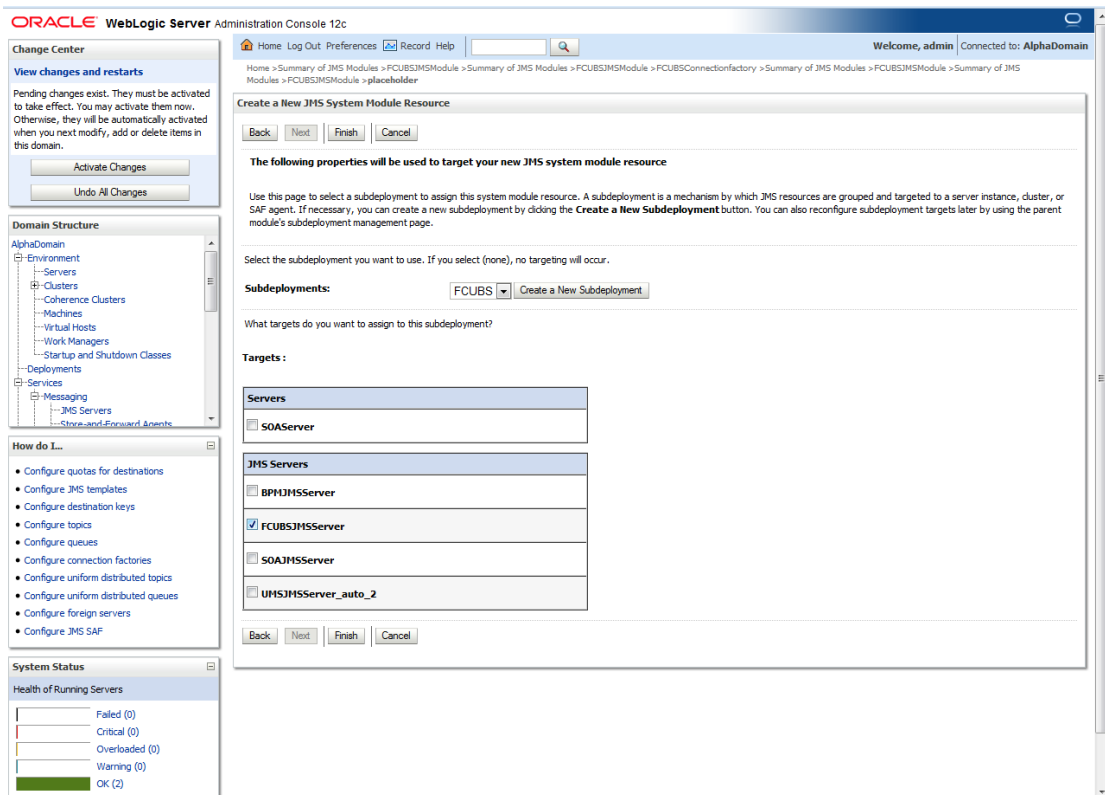
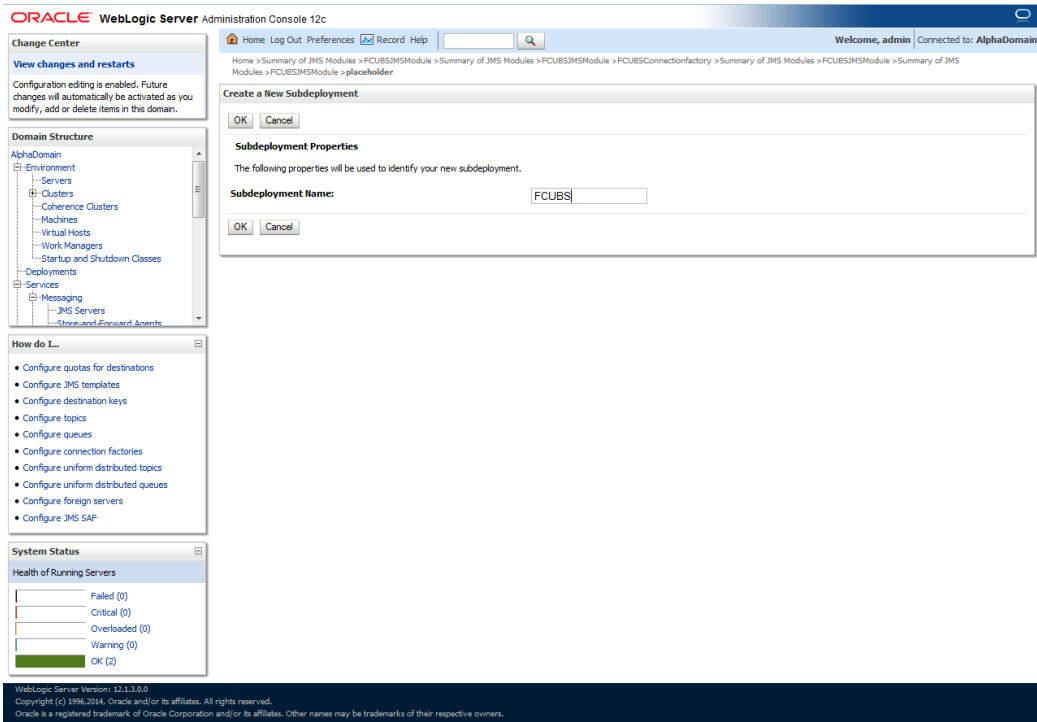
Subdeployments: (none) **Create a New Subdeployment**

What targets do you want to assign to this subdeployment?

Targets:

Back Next Finish Cancel

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WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Change Center

View changes and restarts

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

Domain Structure

AlphaDomain

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

How do I...

No task help found.

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

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

Messages

All changes have been activated. No restarts are necessary.

Connection factory created successfully.

Settings for FCUBSJMSModule

Configuration Subdeployments Targets Security Notes

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

Name:

FCUBSJMSModule

The name of this JMS system module. More Info...

Descriptor File Name:

jms/FCUBSJMSModule-jms.xml

The name of the JMS module descriptor file. More Info...

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

Customize this table

Summary of Resources

New Delete

Showing 1 to 1 of 1 Previous | Next

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

New Delete

Showing 1 to 1 of 1 Previous | Next

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WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

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Change Center

View changes and restarts

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Domain Structure

AlphaDomain

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

How do I...

No task help found.

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

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

Messages

All changes have been activated. No restarts are necessary.

Connection factory created successfully.

Settings for FCUBSJMSModule

Configuration Subdeployments Targets Security Notes

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

Name:

FCUBSJMSModule

The name of this JMS system module. More Info...

Descriptor File Name:

jms/FCUBSJMSModule-jms.xml

The name of the JMS module descriptor file. More Info...

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

Customize this table

Summary of Resources

New Delete

Showing 1 to 1 of 1 Previous | Next

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

New Delete

Showing 1 to 1 of 1 Previous | Next

WebLogic Server Version: 12.1.3.0.0

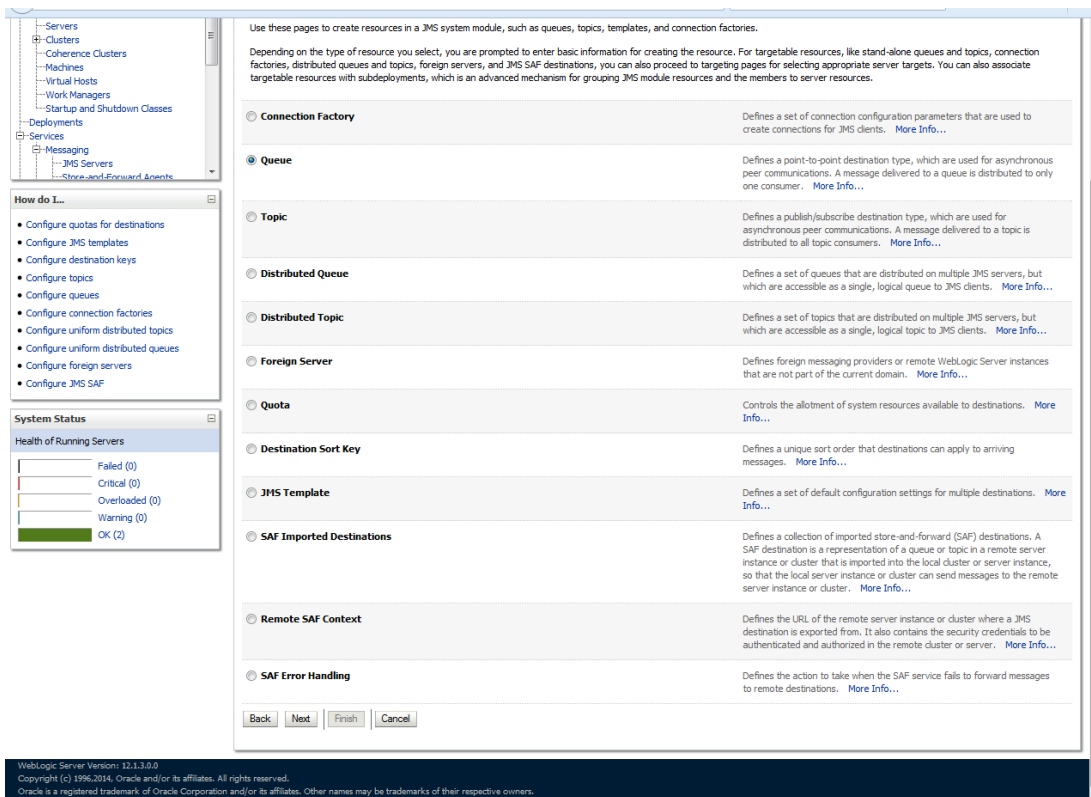
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ORACLE

1-25

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



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

The screenshot displays the Oracle WebLogic Server Administration Console 12c. The main window is titled 'Create a New JMS System Module Resource'. The left sidebar contains a 'Domain Structure' tree with 'AlphaDomain' selected, and a 'How do I...' section with links to various configuration tasks. The main content area shows the 'JMS Destination Properties' form. The 'Name' field is set to 'NOTIFY_DEST_QUEUE', the 'JNDI Name' field is set to 'jms/NOTIFY_DEST_QUEUE', and the 'Template' dropdown is set to 'None'. The 'Back', 'Next', 'Finish', and 'Cancel' buttons are visible at the bottom of the form. The bottom status bar indicates 'WebLogic Server Version: 12.1.3.0.0' and 'Copyright (c) 1996, 2014, Oracle and/or its affiliates. All rights reserved.'

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

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_QUEUE

JNDI Name: jms/NOTIFY_DEST_QUEUE

Template: None

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

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

- ☐ BPMSJMServer
- ☒ FCUBSJMServer
- ☐ SOAJSMServer
- ☐ UMSJMServer_auto_2

Back Next Finish Cancel

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ORACLE WebLogic Server Administration Console 12c

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

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

Messages

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

Settings for FCUBSJMSModule

Configuration Subdeployments Targets Security Notes

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

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

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

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

Customize this table

Summary of Resources

New Delete Showing 1 to 2 of 2 Previous Next

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

New Delete Showing 1 to 2 of 2 Previous Next

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11. Please create the **MDB_QUEUE_RESPONSE**, **eis/jms/ORGateway**, **FAULT_QUEUE_RESPONSE** Queues as above in console with in **FCUBSJMSModule**. (Follow step 9-10 in 1.2.7)

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

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 > FCUBS3JMSModule > Summary of JMS Modules > FCUBS3JMSModule > Summary of JMS Modules > placeholder > Summary of Deployments > JmsAdapter > Summary of Deployments > JmsAdapter

Settings for JmsAdapter

Overview
Deployment Plan
Configuration
Security
Targets
Control
Testing
Monitoring
Notes

General
Properties
Outbound Connection Pools
Admin Objects
Workload
Instrumentation

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

Outbound Connection Pool Configuration Table

New Delete

Showing 1 to 1 of 1 Previous Next

Groups and Instances	Connection Factory Interface
oracle.tp.adapter.jms.IJmsConnectionFactory	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/activemq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNLocalTXDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNLocalTXTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNXaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/EDNXaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/aqjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/floronomq/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/jaiaB2QueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/jaiaErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jramat/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/summq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/webosphermq/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

ORACLE WebLogic Server Administration Console 12c

Home
Log Out
Preferences
Record
Help

Welcome, admin Connected to: AlphaDomain

Home > FCUBS3JMSModule > 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

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)

WebLogic Server Version: 12.1.3.0.0

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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
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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)

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

WebLogic Server Version: 12.1.3.0.0

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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)

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/agjms/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/agjms/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/agjms/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/agjms/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/agjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/agjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/floratomy/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aisa82QueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aisaErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/pramati/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/Queue/Notif	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/sunmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/tbjmsDirect/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/webSpheremq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory

New Delete

Showing 1 to 1 of 1 Previous Next

WebLogic Server Version: 12.1.3.0.0

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with a 'View changes and restarts' button, a 'Domain Structure' tree, and a 'System Status' section. The main content area is titled 'Settings for oracle.tip.adapter.jms.DmsConnectionFactory'. It has tabs for 'General', 'Properties', 'Transaction', 'Authentication', 'Connection Pool', and 'Logging'. The 'Properties' tab is active, displaying a table of properties for the 'Outbound Connection Properties'. The table has columns for 'Property Name', 'Property Type', 'Property Value', and 'Supports Dynamic Updates'. The 'ConnectionFactoryLocation' property is highlighted, showing its value as 'jndi/FCUBSConnectionFactory'. Below the table, there are 'Save' buttons and pagination information.

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

This screenshot shows the same Oracle WebLogic Server Administration Console after the configuration changes have been saved. The 'Messages' section at the top of the main content area displays three green checkmarks indicating that all changes have been activated, no restarts are necessary, and the deployment plan has been successfully updated. The 'Settings for oracle.tip.adapter.jms.DmsConnectionFactory' tab is still active, and the 'Outbound Connection Properties' table is visible, showing the updated 'ConnectionFactoryLocation' value as 'jndi/FCUBSConnectionFactory'.

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

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

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

Customize this table

Deployments

Install Update Delete Start Stop

Showing 1 to 46 of 46 Previous Next

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

Highlight All Match Case

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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

Update Application Assistant

Back Next Finish Cancel

Locate new deployment files

You have elected to update the JmsAdapter application.

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

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

☒ Redeploy this application using the following deployment files:

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

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

Back Next Finish Cancel

Domain Structure

AlphaDomain

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

How do I...

- Start and stop a deployed enterprise application
- Configure an enterprise application
- Create a deployment plan
- Target an enterprise application to a server
- Test the modules in an enterprise application

System Status

Health of Running Servers

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

WebLogic Server Version: 12.1.3.0.0
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ORACLE WebLogic Server Administration Console 12c

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

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

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...?

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

System Status
Health of Running Servers

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

Messages

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

Summary of Deployments
Control Monitoring

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

Customize this table

Deployments
Install Update Delete Start Stop

Showing 1 to 46 of 46 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
b2bul	Prepared	OK	Enterprise Application	SOAServer	313
BamComposer	New		Enterprise Application	BAMServer	500
BamCQService	New		Enterprise Application	BAMServer	300
BamServer	New		Enterprise Application	BAMServer	400
BPMComposer	Active	OK	Enterprise Application	SOAServer	385
coherence-transaction-iar	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

Search: Highlight All Match Case

16. 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 12c. The left sidebar contains the 'Change Center' with a 'View changes and restarts' link, a 'Domain Structure' tree showing 'AlphaDomain' and its sub-nodes, and a 'System Status' section showing the health of running servers. The main content area is titled 'Settings for FtpAdapter' and has tabs for 'Overview', 'Deployment Plan', 'Configuration', 'Security', 'Targets', 'Control', 'Testing', 'Monitoring', and 'Notes'. The 'Configuration' tab is active, and the 'Outbound Connection Pools' sub-tab is selected. Below the tabs is a table titled 'Outbound Connection Pool Configuration Table' with columns for 'Groups and Instances' and 'Connection Factory Interface'. The table lists several instances, including 'eis/tp/FtpAdapterLcl'. The bottom of the console shows the 'WebLogic Server Version: 12.1.3.0.0' and copyright information.

The screenshot shows the 'Create a New Outbound Connection' wizard in the Oracle WebLogic Server Administration Console 12c. The left sidebar is the same as the previous screenshot. The main content area is titled 'Create a New Outbound Connection' and has buttons for 'Back', 'Next', 'Finish', and 'Cancel'. The 'JNDI name for Outbound Connection Instance' section is active, showing a text input field for the JNDI name, which is currently 'eis/tp/FtpAdapterLcl'. The bottom of the console shows the 'WebLogic Server Version: 12.1.3.0.0' and copyright information.

2)Click finish and save.

1.2.8 BIP Interactive reports configuration

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

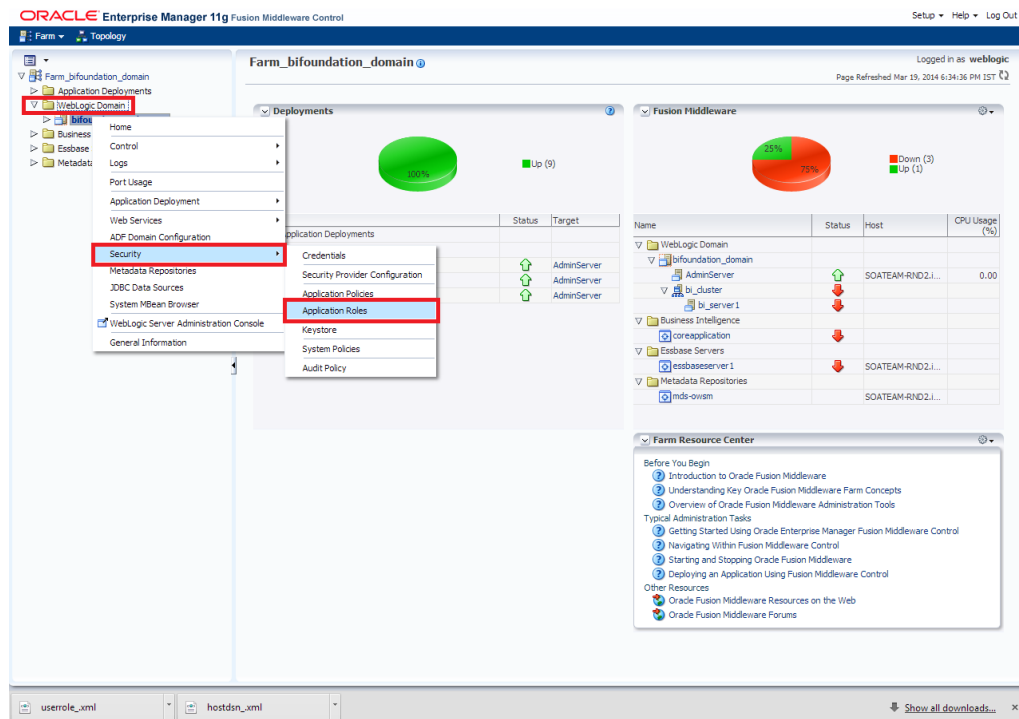
After adding, Navigate to security realms >myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Domain Structure' tree with 'Security Realms' highlighted. The main area displays the 'Settings for myrealm' page, with the 'Users and Groups' tab selected. Below the tabs, there is a table of users. The table has columns for 'Name', 'Description', and 'Provider'. The users listed are:

Name	Description	Provider
000ANT1	Default Admin User 1	FCJCustomProvider
11111RM_3	Sweta	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
15259403	Kumar	FCJCustomProvider
1M20862	BALA	FCJCustomProvider
20862A1	Bala	FCJCustomProvider

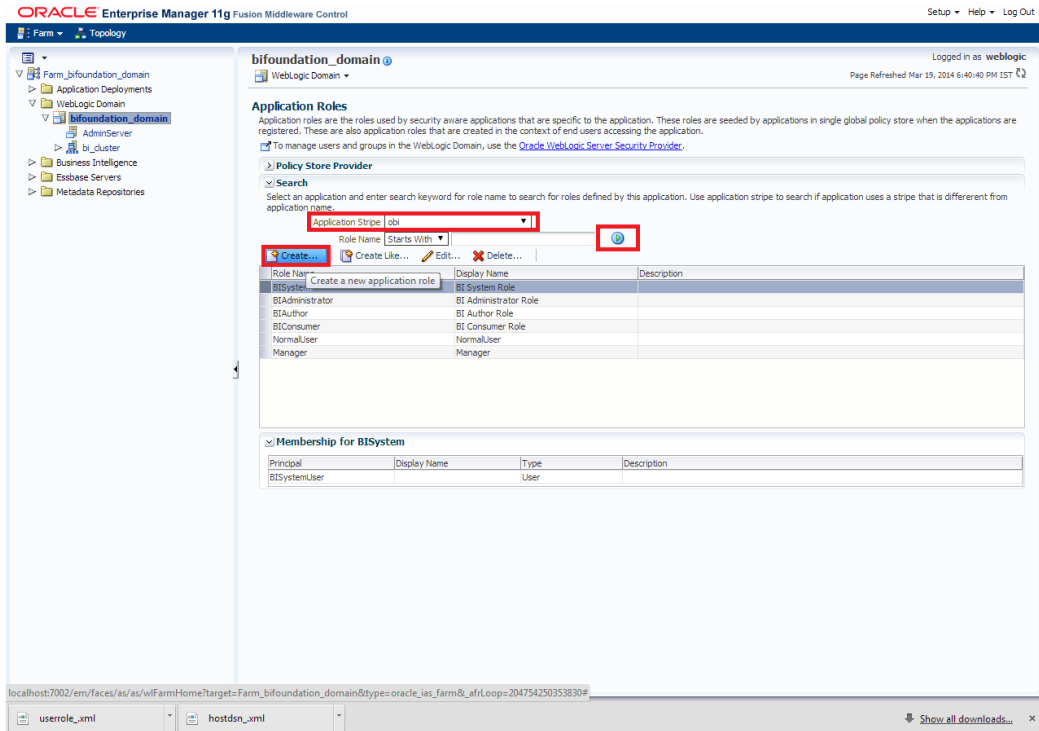
- 3) Login to the Enterprise Manager (em) `http/s:<hostname>:<port>/em`
 - Right click on the domain(in which BI suite is installed) under the weblogic domain

- Go to security and then navigate to application roles



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

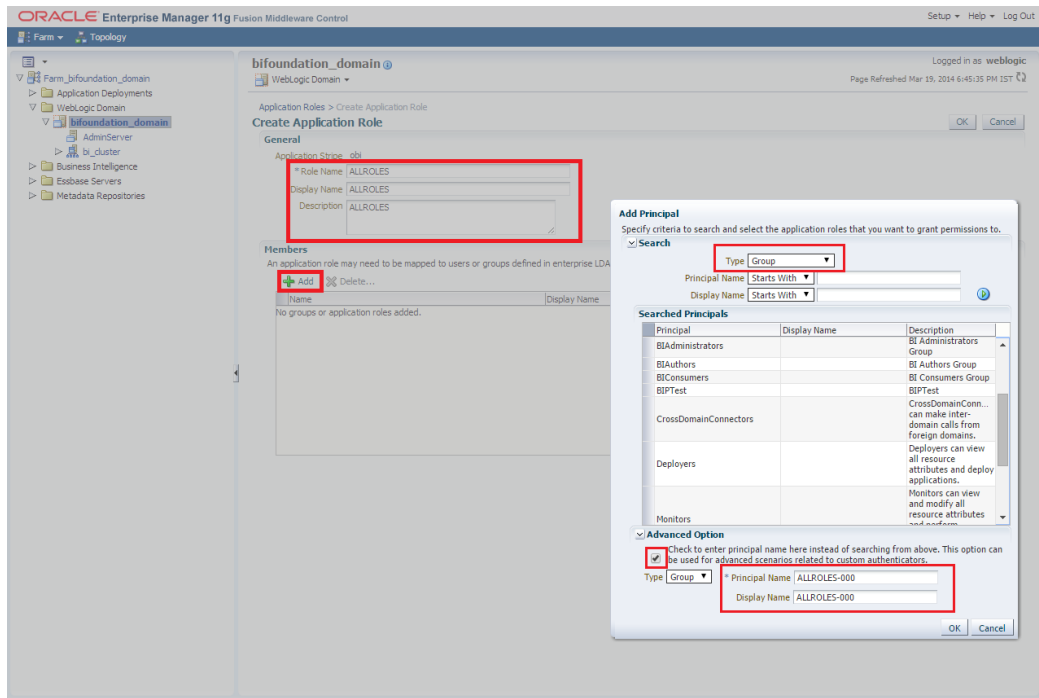
- Select application stripe as obi
- Click on the search button
- Click on create button to add a role



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

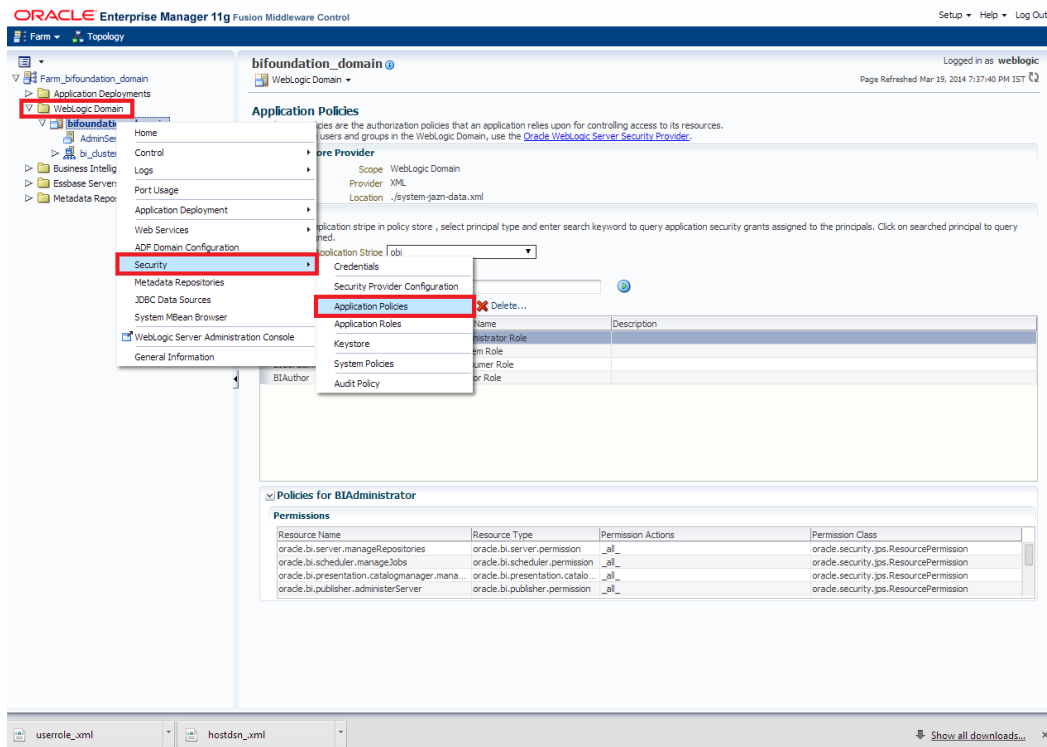
- Enter the role name(mandatory), display name(optional), description(optional)
- Click on the Add button
- In the Add Principal pop up select type as “Group”
- In the advanced option check the checkbox and again select the type as “Group” below
 - Click on the Search button, if the roles are listed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

- After completing click on OK button in pop up window and also in the screen.



6) After getting information message like “A new role added successfully”, then again

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



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

ORACLE Enterprise Manager 11g Fusion Middleware Control

Setup Help Log Out

Farm Topology

bifoundation_domain

WebLogic Domain

Application Policies

Application policies are the authorization policies that an application relies upon for controlling access to its resources.

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

Policy Store Provider

Scope: WebLogic Domain

Provider: XML

Location: /system-jam-data.xml

Search

Select an application stripe in policy store, select principal type and enter search keyword to query application security grants assigned to the principals. Click on searched principal to query policies assigned to the principal.

Application Stripe: obi

Principal Type: Application Role

Name Starts With

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

Principal	Display Name	Description
BIAdministrator	BI Administrator Role	
BIUser	BI System Role	
BIConsumer	BI Consumer Role	
BIAdmin	BI Admin Role	
BIReportViewer	FCUBI Consumer Role	

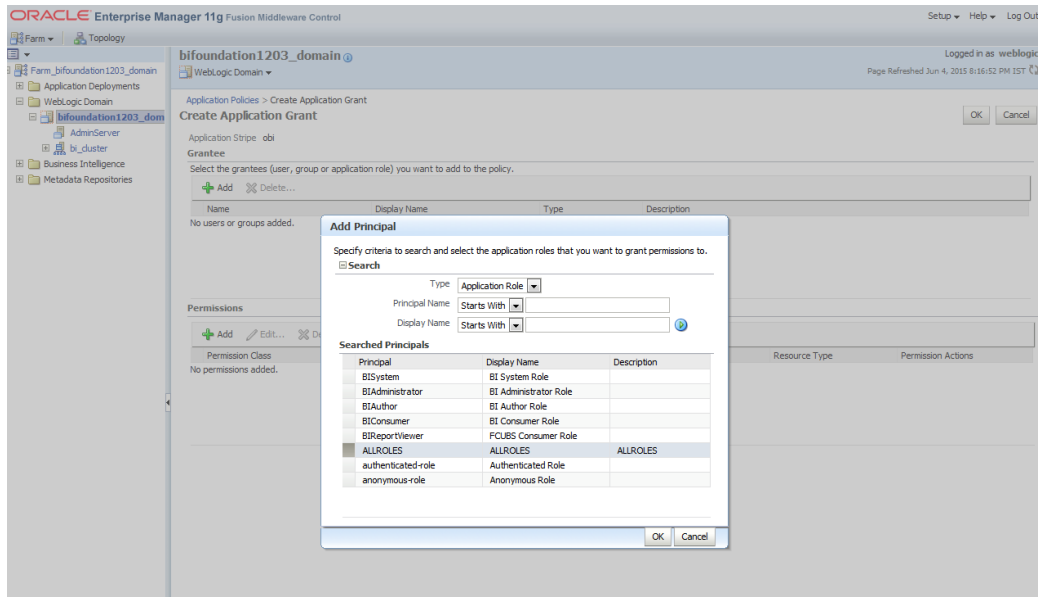
Policies for BIConsumer

Permissions

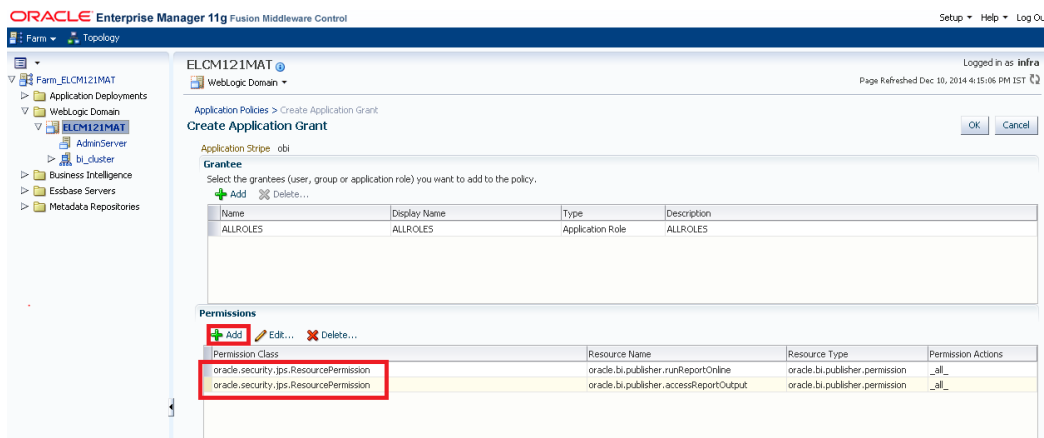
Resource Name	Resource Type	Permission Actions	Permission Class
Explore	rtd_fc_persp	dc_perspective	oracle.security.xml.ResourcePermission
MyGance	rtd_fc_persp	dc_perspective	oracle.security.xml.ResourcePermission
all	rtd_batch	batch_admin	oracle.security.xml.ResourcePermission
_all	rtd_ls	choice_editor	oracle.security.xml.ResourcePermission

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

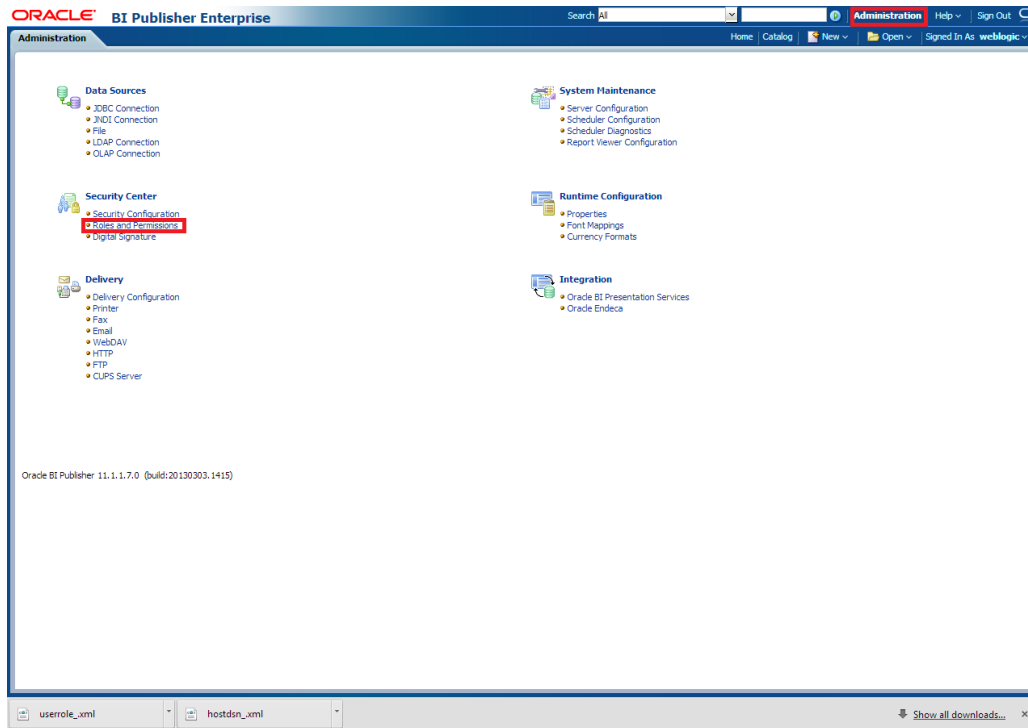
- Click on Add button , a new window “Add Principal” will be launched.
- Select Type as “Application Role” and click on the search button
- From the list select the role that has been created earlier in application role screen and click on OK button in pop up window and screen.



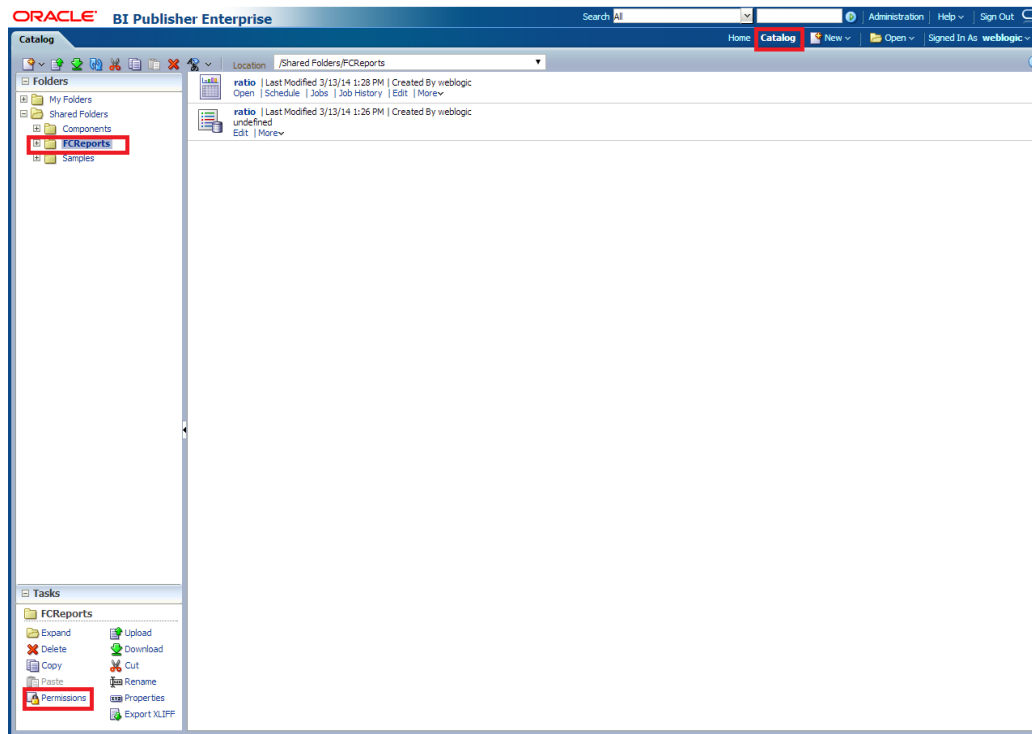
- Click Add button under Permissions and add the two permissions one by one as mentioned below.
 - oracle.bi.publisher.runReportOnline
 - oracle.bi.publisher.accessReportOutput



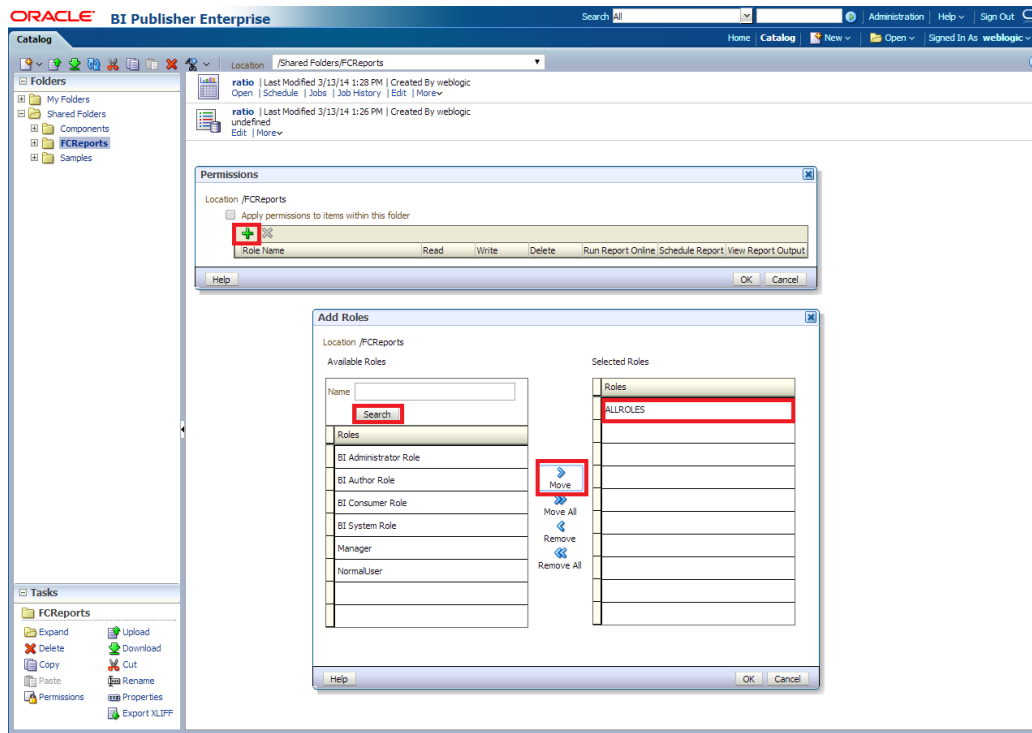
- 9) After getting information message like “A security added successfully”,
- Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpserver`
 - Click on the Administration .
 - Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart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



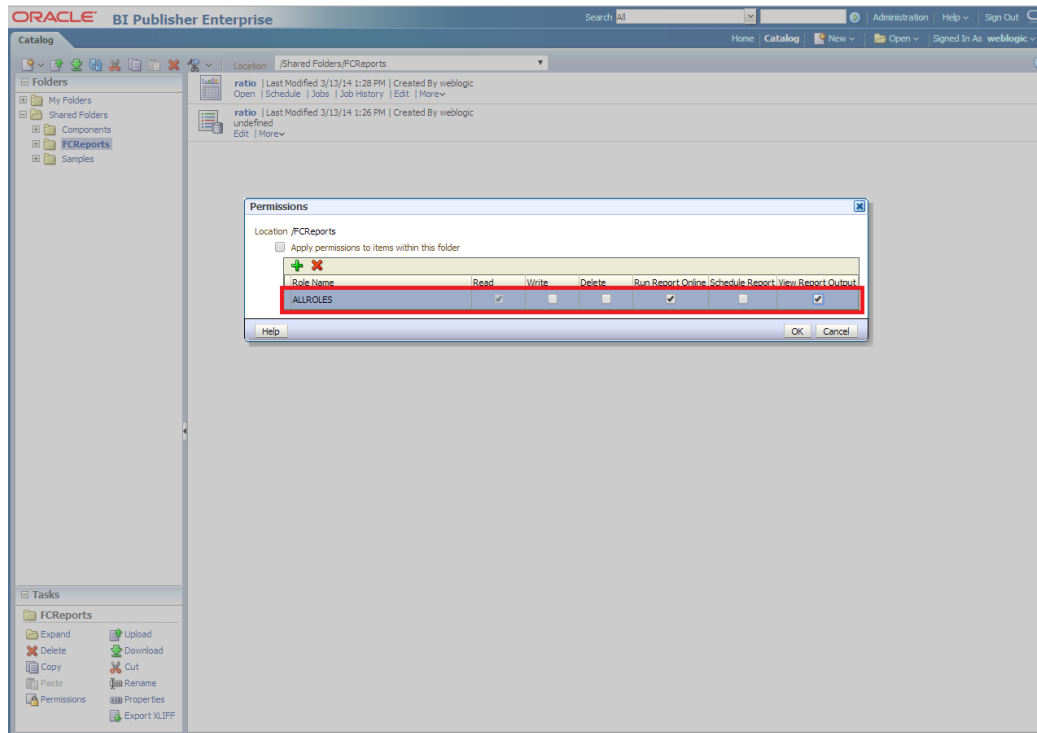
10) Then click on the Catalog , then on the folder that has been created , and then on permissions



- 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.



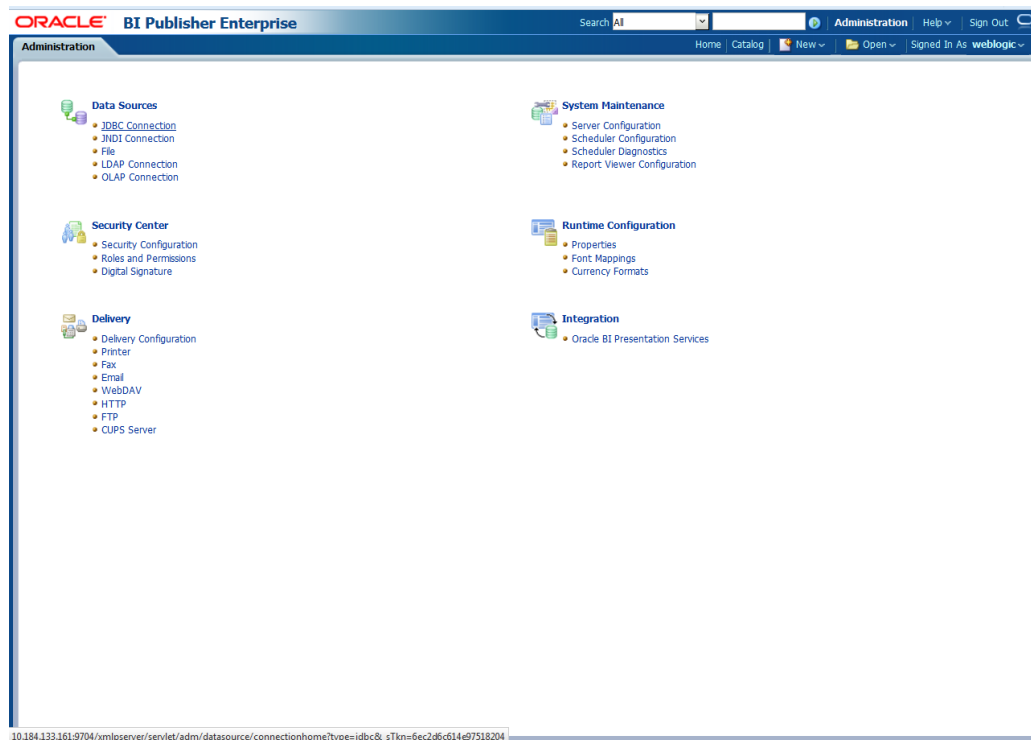
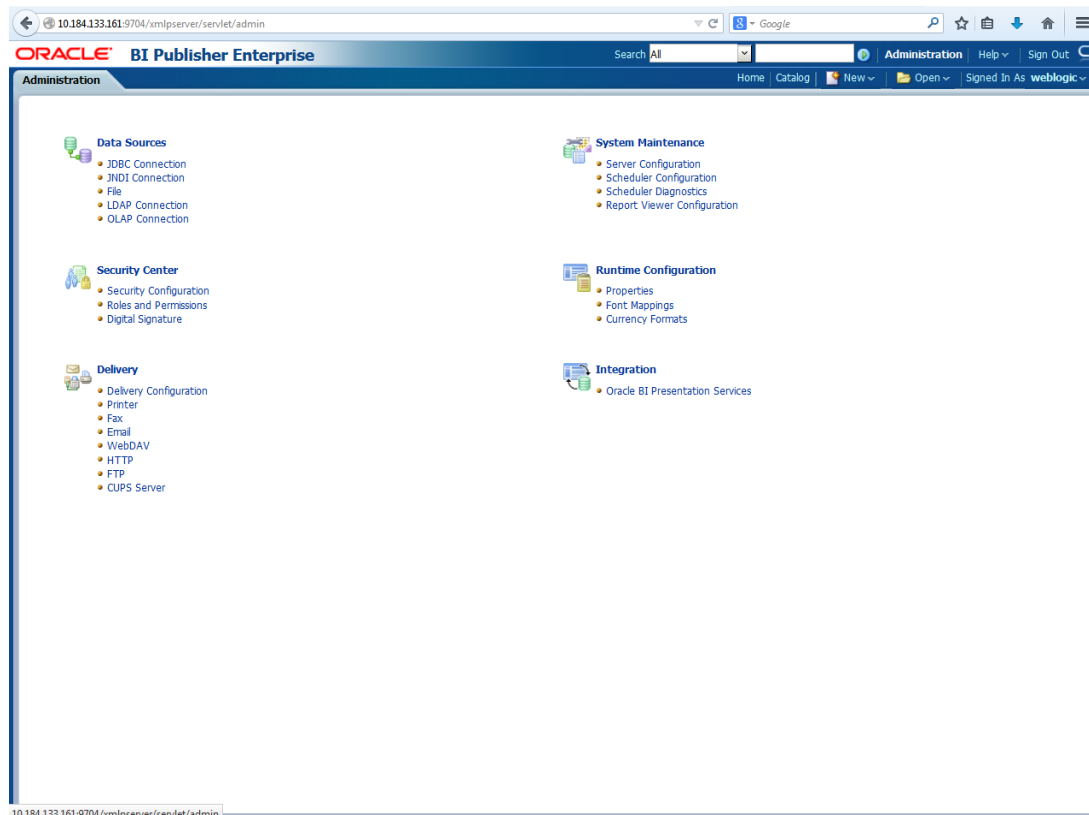
Now the reports in the folder will be accessed accordingly based on the roles.

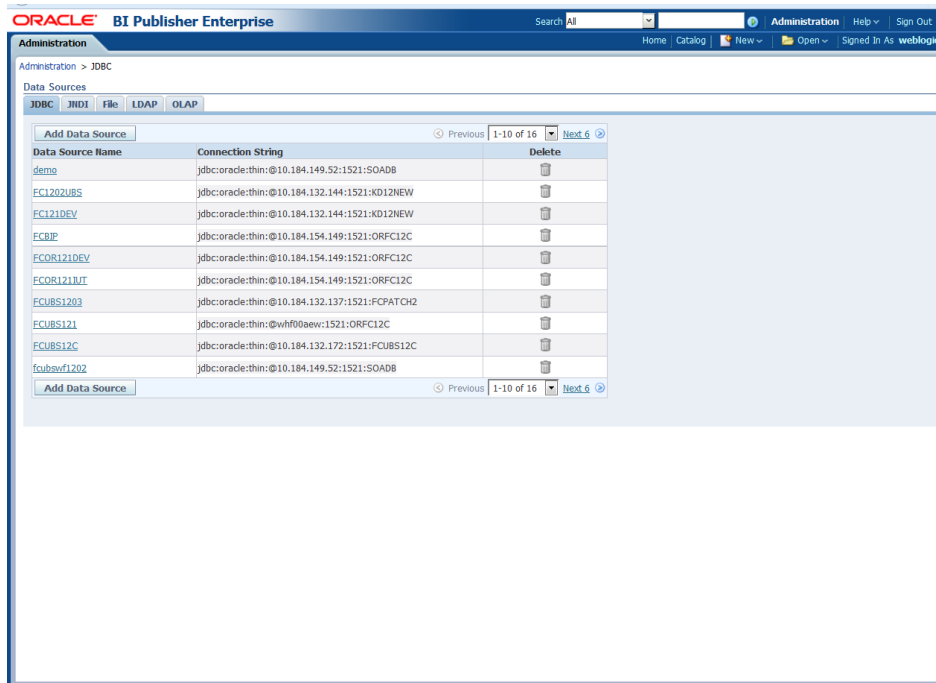
Note:

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





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

Oracle BI Publisher Enterprise Administration > Add Data Source

Add Data Source Apply Cancel

General

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

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

Use System User: ☐
 * Username: DEV12C_SOAINFRA
 Password:
 Pre Process Function:
 Post Process Function:
☐ Use Proxy Authentication
 Test Connection

Backup Data Source

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

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

16. Add the FCIS roles to allowed Roles under security

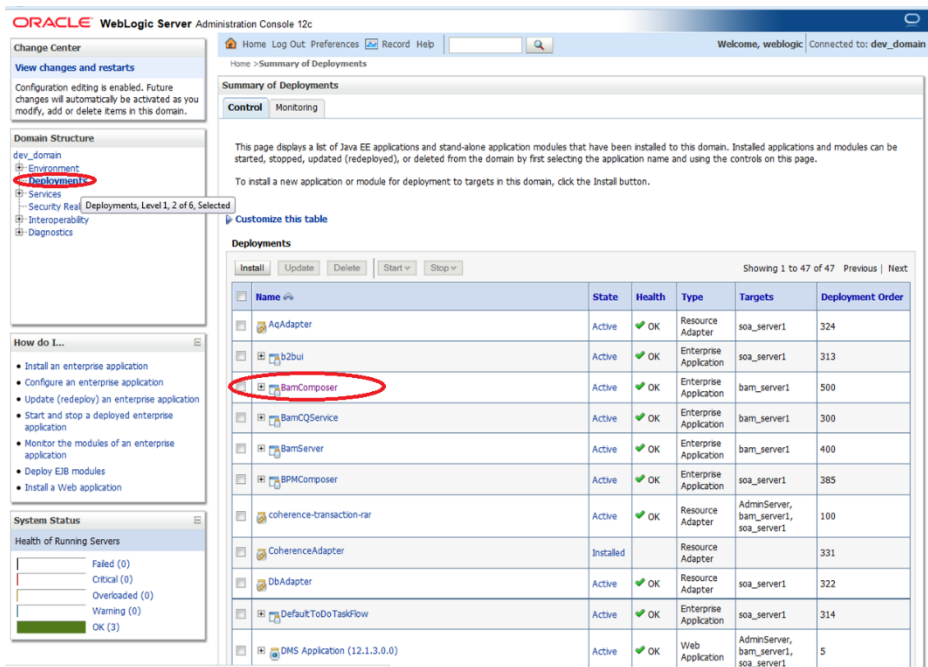
The screenshot displays the Oracle BI Publisher Enterprise Administration console. The top navigation bar includes the Oracle logo, 'BI Publisher Enterprise', a search bar, and links for 'Administration', 'Help', and 'Sign Out'. The main content area is divided into three sections: 'Administration', 'Backup Data Source', and 'Security'. The 'Administration' section contains fields for 'Use System User', 'Username' (set to 'DEV12C_SOAINFRA'), 'Password', 'Pre Process Function', and 'Post Process Function', along with a 'Test Connection' button. The 'Backup Data Source' section has a 'Use Backup Data Source' checkbox and fields for 'Connection String', 'Username', and 'Password', also with a 'Test Connection' button. The 'Security' section features an 'Allow Guest Access' checkbox and a role management interface. This interface includes an 'Available Roles' list with 'BI Administrator Role', 'BI Author Role', 'BI Consumer Role', 'BI System Role', and 'FCUBS Consumer Role'. It also has 'Allowed Roles' list, which currently contains 'ALLROLES'. Between these lists are buttons for 'Move', 'Move All', 'Remove', and 'Remove All'.

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

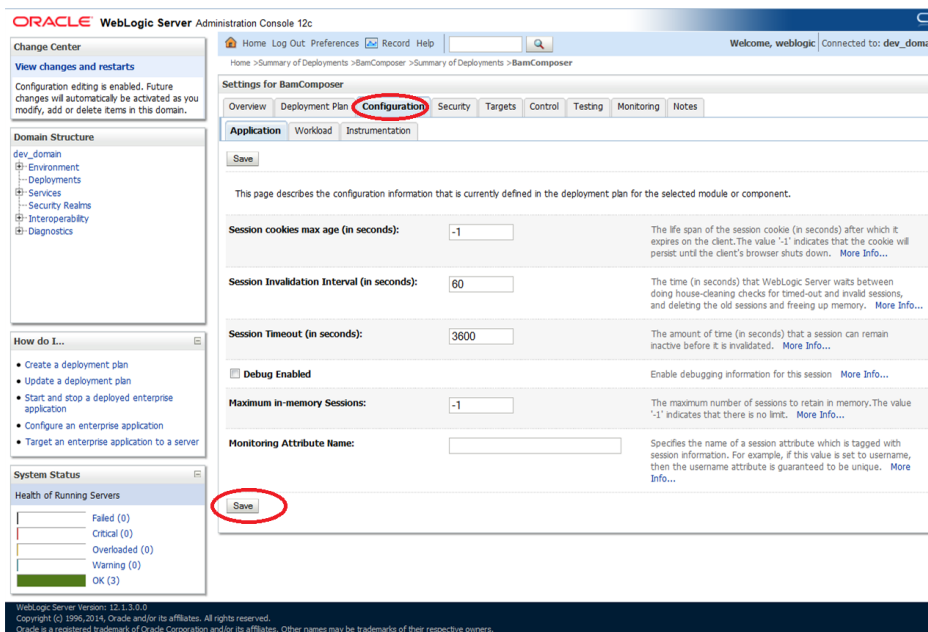
18. Please follow the steps 15 to 17 to create data source for FCIS Schema and give the name as FCBIPBPEL

1.2.9 BAM Report Configuration settings

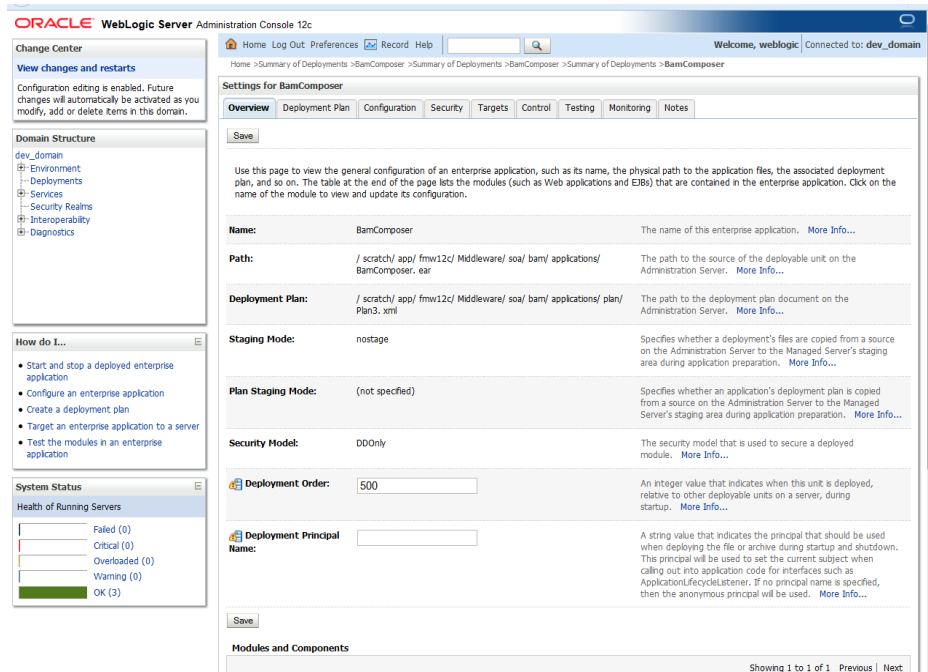
1. Generate a deployment plan for BAM Composer Application.
2. Login in to console <http://hostname:port/console>
3. Click on Deployments→click on BAM Composer



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 WebLogic Server Administration Console. On the left, there are navigation tabs: Services, Security Realms, Interoperability, and Diagnostics. Below these is a 'How do I...' section with links to install, configure, update, start/stop, monitor, and deploy applications. The 'System Status' section shows the health of running servers: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (3). The main area displays a table of deployments. The 'BAMComposer' application is selected, and a context menu is open with the 'Force Stop Now' option highlighted. The table lists various applications and their status.

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
h2bui	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	OK	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
FOJBASAppJIT (12.1.0.0.0)	Active	Warning	Enterprise Application	soa_server1	600
FOJBASAppSoaEmb (12.1.0.0.0)	Prepared	OK	Enterprise Application	soa_server1	601
FileAdapter	Active	OK	Resource Adapter	soa_server1	321
frevo	Installed	OK	Enterprise Application		100
PinAdapter	Active	OK	Resource Adapter	soa_server1	325

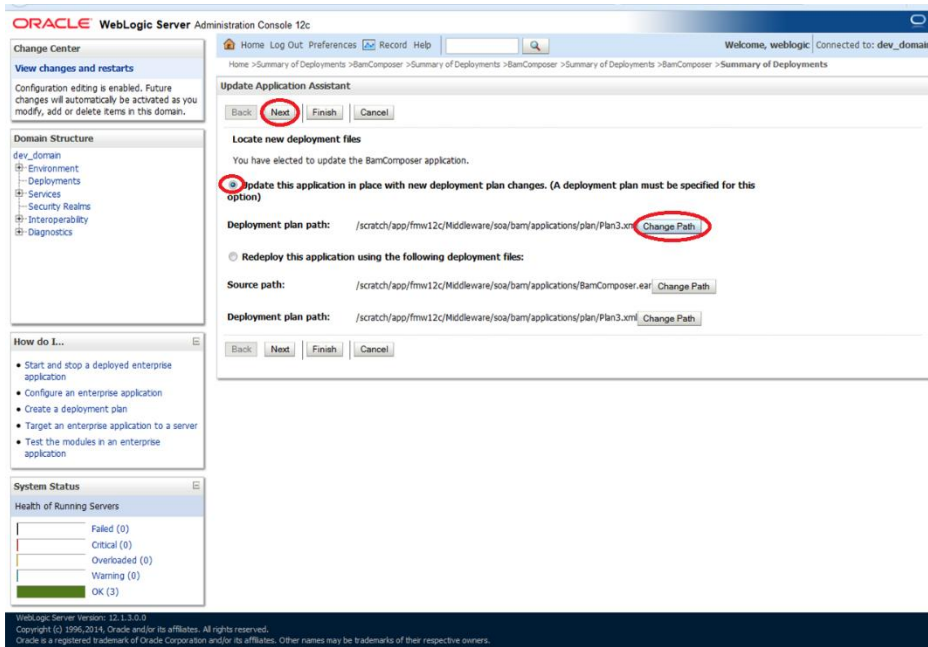
8. Update the deployment plan.

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

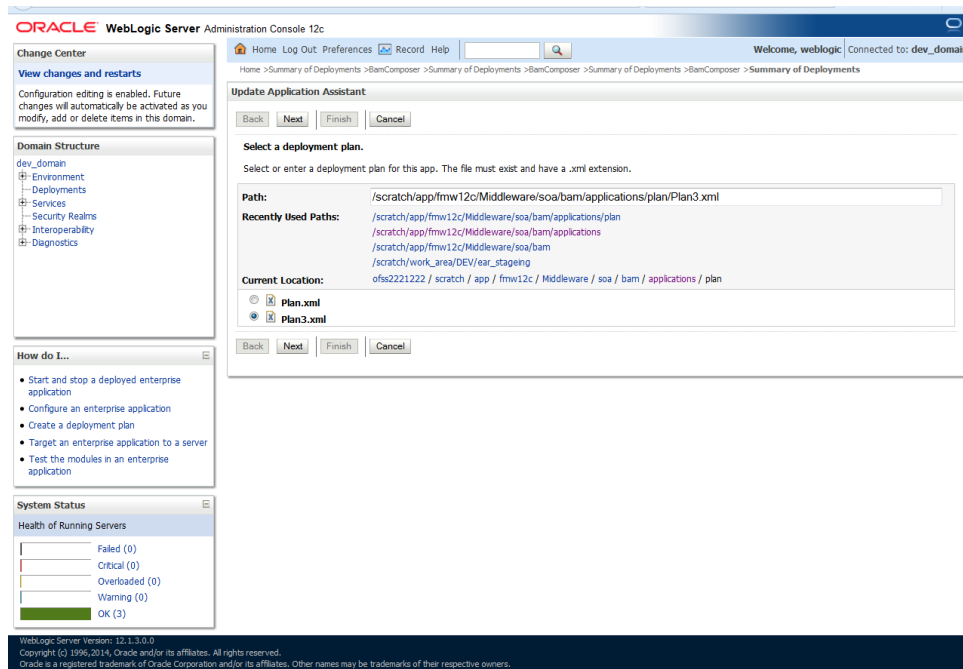
The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there are navigation tabs: Change Center, Domain Structure, and System Status. The 'Domain Structure' tab is selected, and the 'Deployments' sub-tab is active. The main area displays a table of deployments. The 'BAMComposer' application is selected, and the 'Update' button is highlighted. The table lists various applications and their status.

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
h2bui	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	OK	Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5

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



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



ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic Connected to: dev_domain

Home Log Out Preferences Record Help

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

Messages

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

Summary of Deployments

Control Monitoring

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

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

Customize this table

Deployments

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

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

12. Restart the BAM Composer application in the console

ORACLE WebLogic Server Administration Console 12c

Welcome, admin Connected to: AlphaDomain

Home Log Out Preferences Record Help

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

Messages

- ✓ Selected Deployments have been requested to stop.

Summary of Deployments

Control Monitoring

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

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

Customize this table

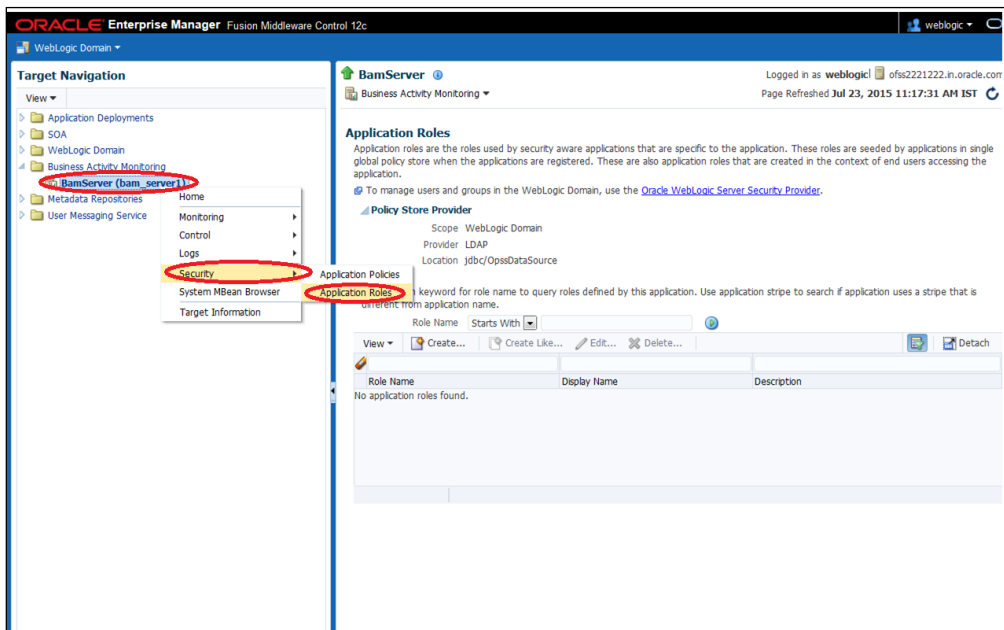
Deployments

Install Update Delete Start v Stop v Showing 1 to 48 of 48 Previous Next

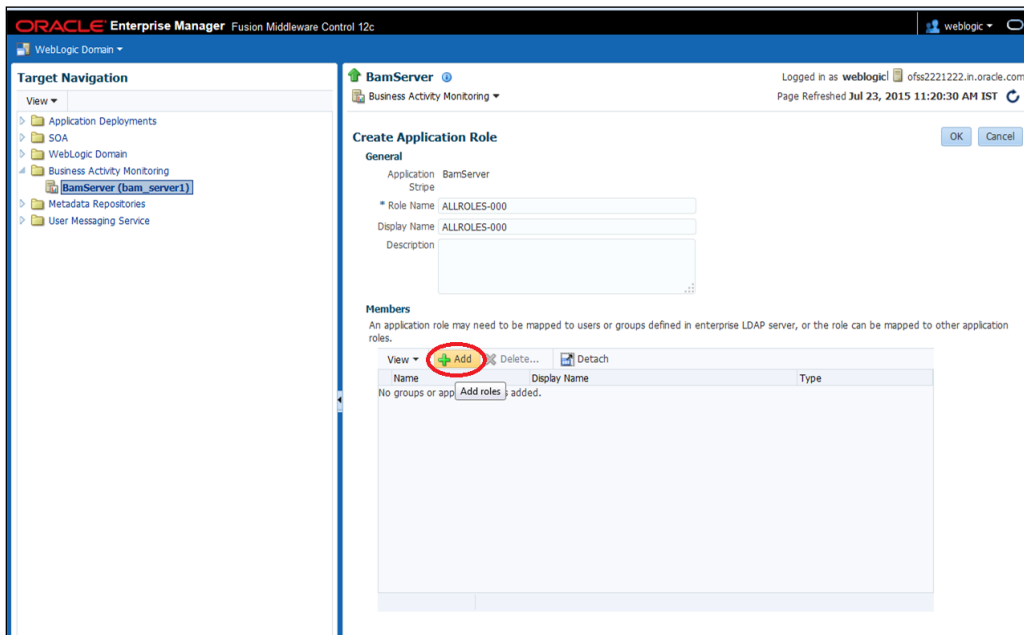
Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
mqbzui	Prepared	OK	Enterprise Application	SOAServer	313
BamComposer	Prepared	OK	Enterprise Application	BAMServer	500
BamCQService	Active	OK	Enterprise Application	BAMServer	300
BamServer	Active	OK	Enterprise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

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

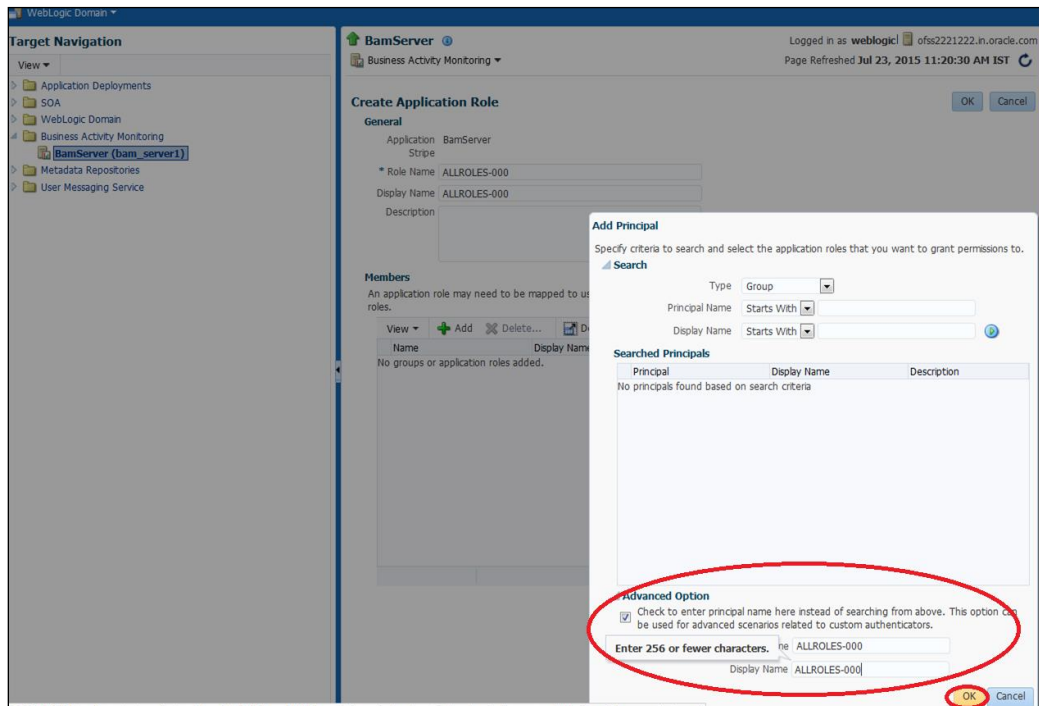
14. Right Click on BAM Server→Security→Application Roles



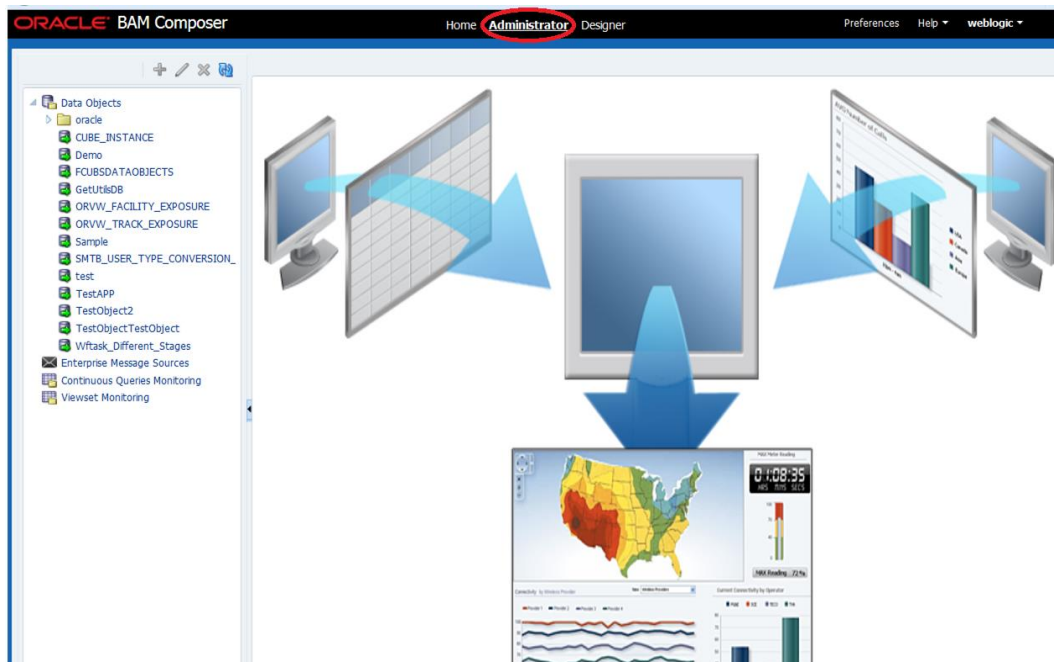
15. Click on Create → create application role with ALL ROLES-000→Click on ADD button in the Members



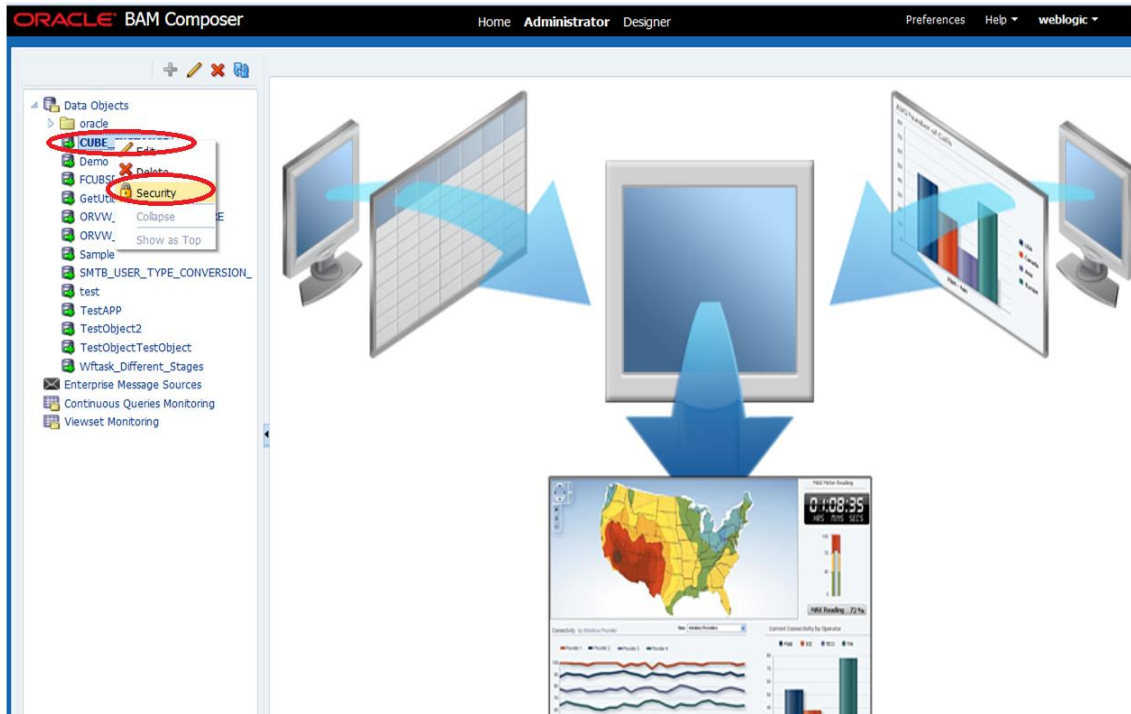
16. Select the Type as Group and add principle details be referring the below screen shot.



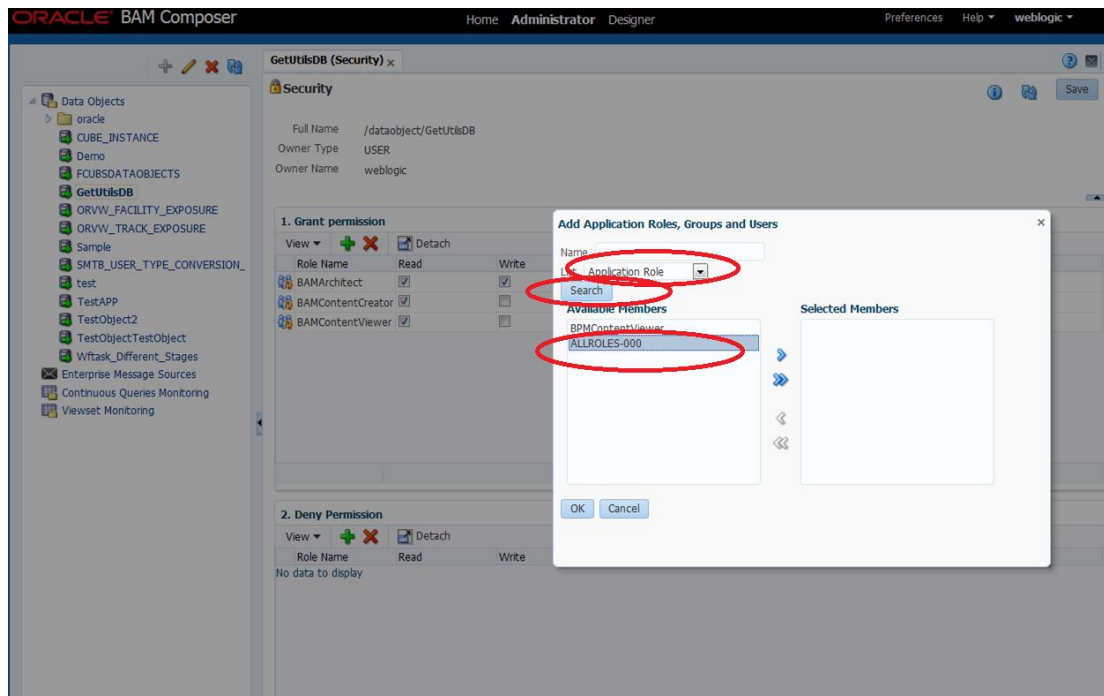
17. Login to BAM Composer → <http://hostname:port/bam/composer>→ Click on Administrator.



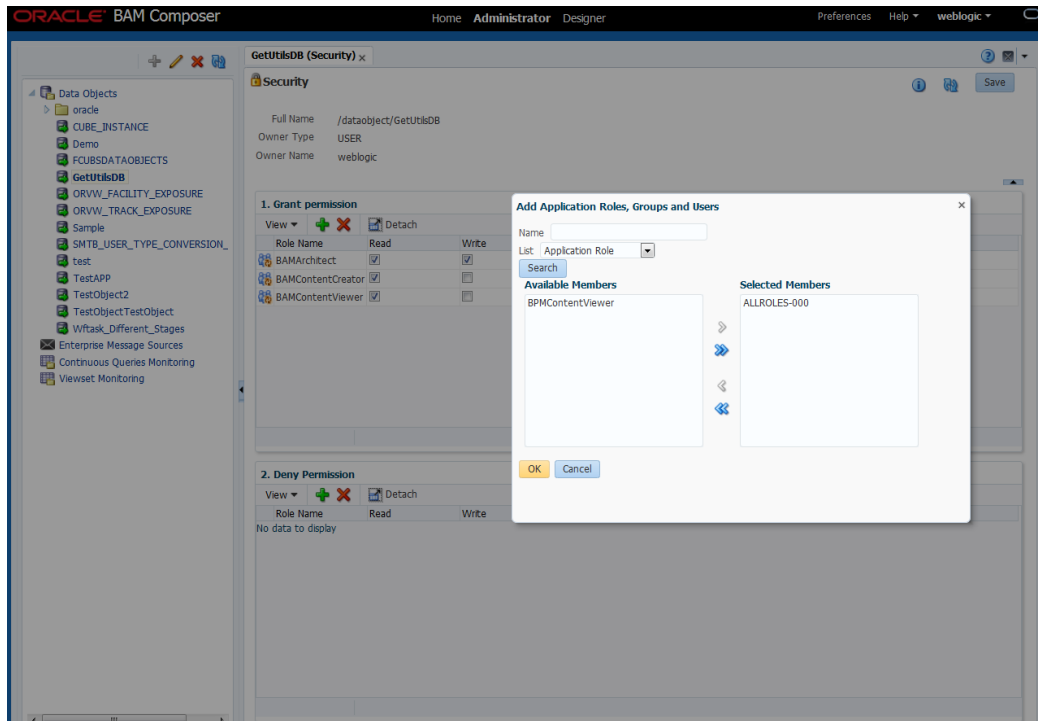
18. Go to Data Object→Right Click on CUBE_INSTANCE→Security



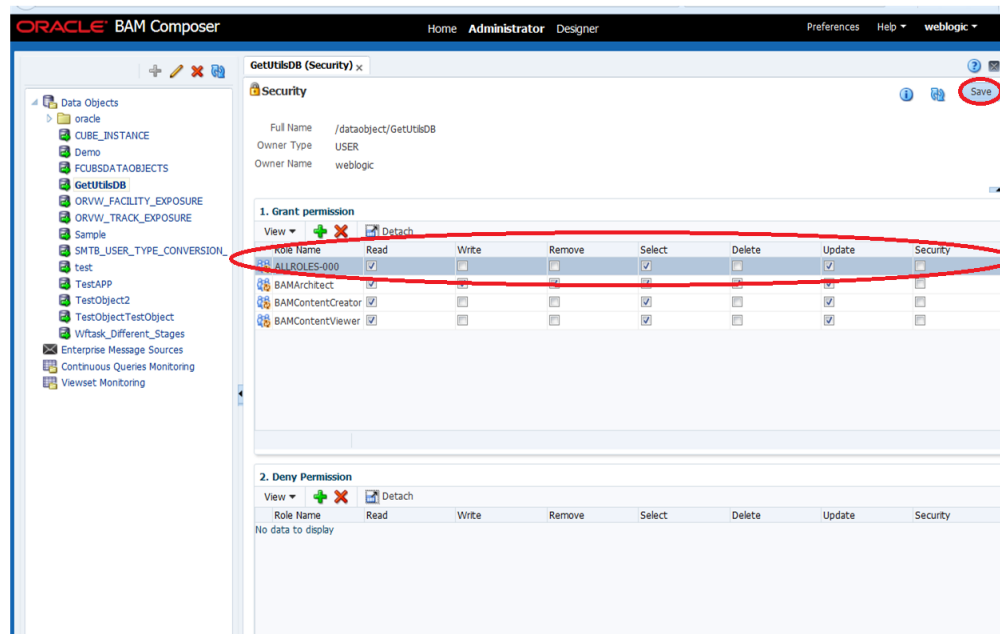
19. Click on Add button under Grant permission and search the list based on the Application Role



20. Move the ALLROLES-000 to Selected members.

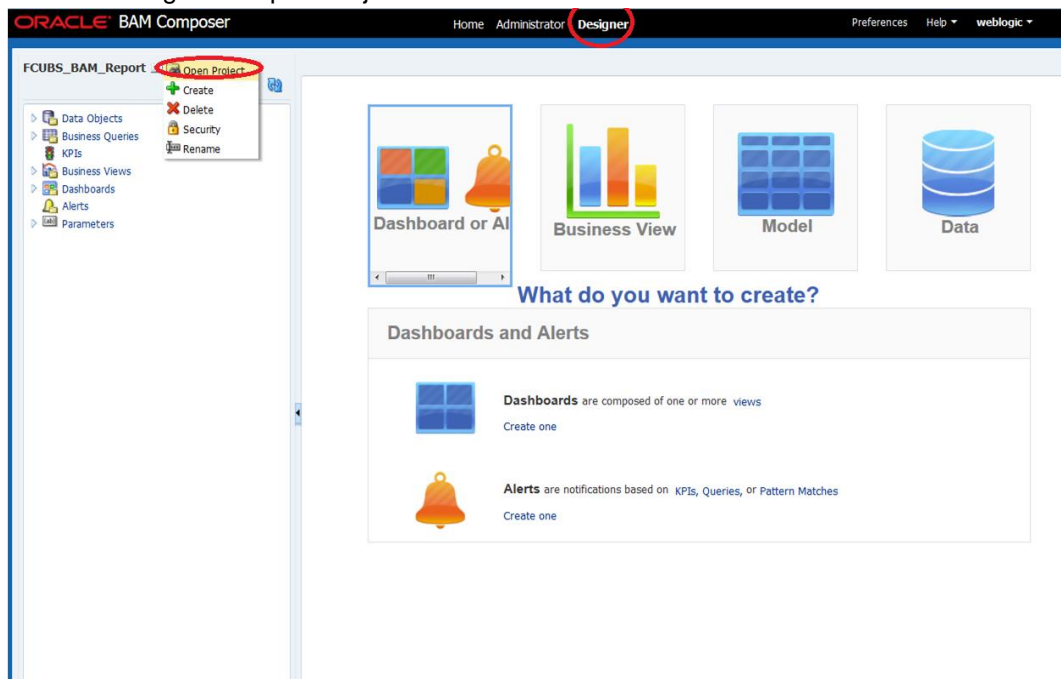


21. Click on read, select and Update check boxes → Click on Save.

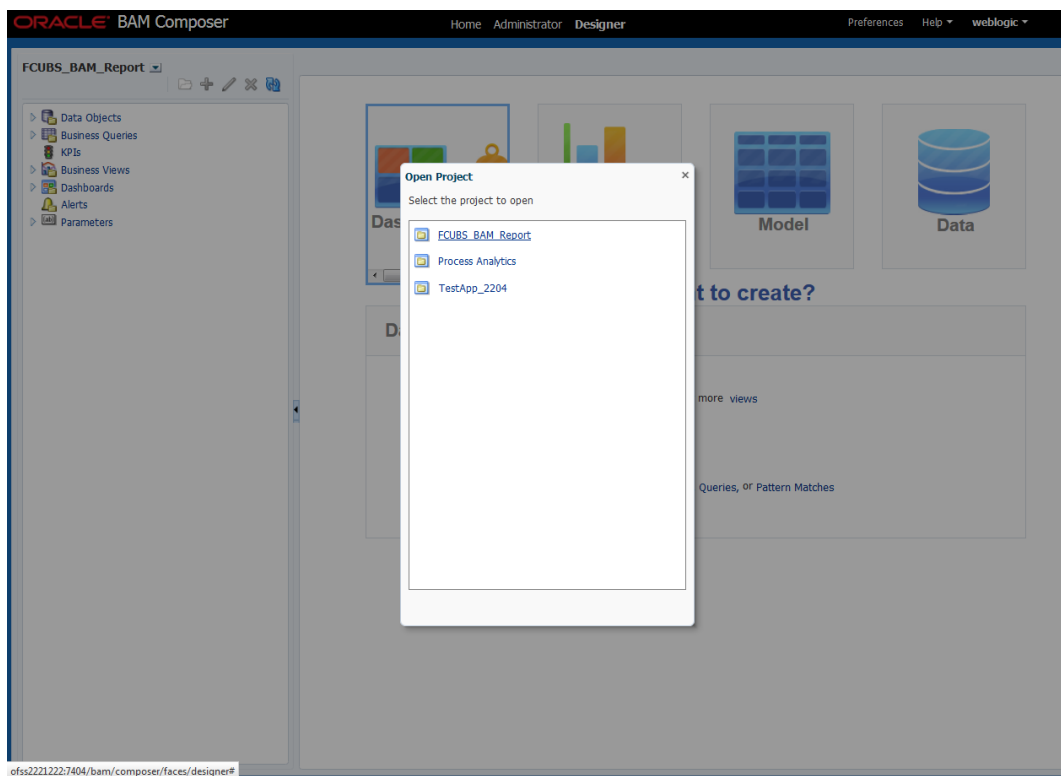


22. Follow the step 17 to 21 for other Data objects also.(cube_instance,wftask_different_stages, ORVW_TRACK_EXPOSURE, ORVW_FACILITY_EXPOSURE, GetUtilsDB, SMTB_USER_TYPE_CONVERSION_VIEW, FCUBSDATAOBJECTS).

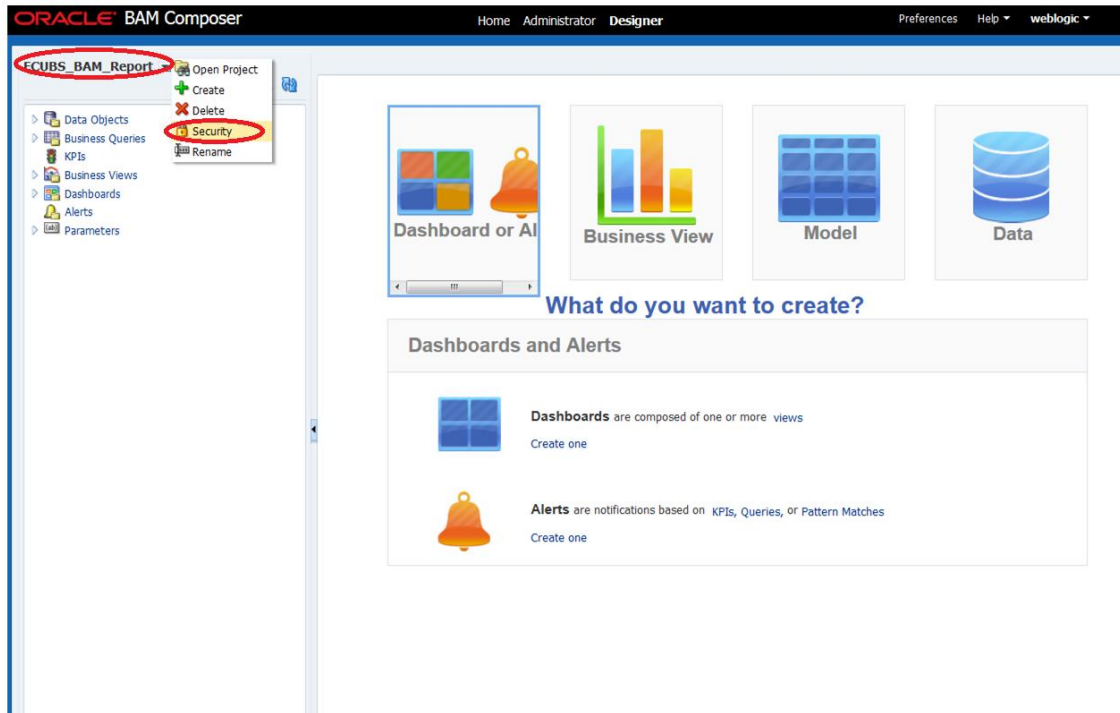
23. Click on Designer → Open Project



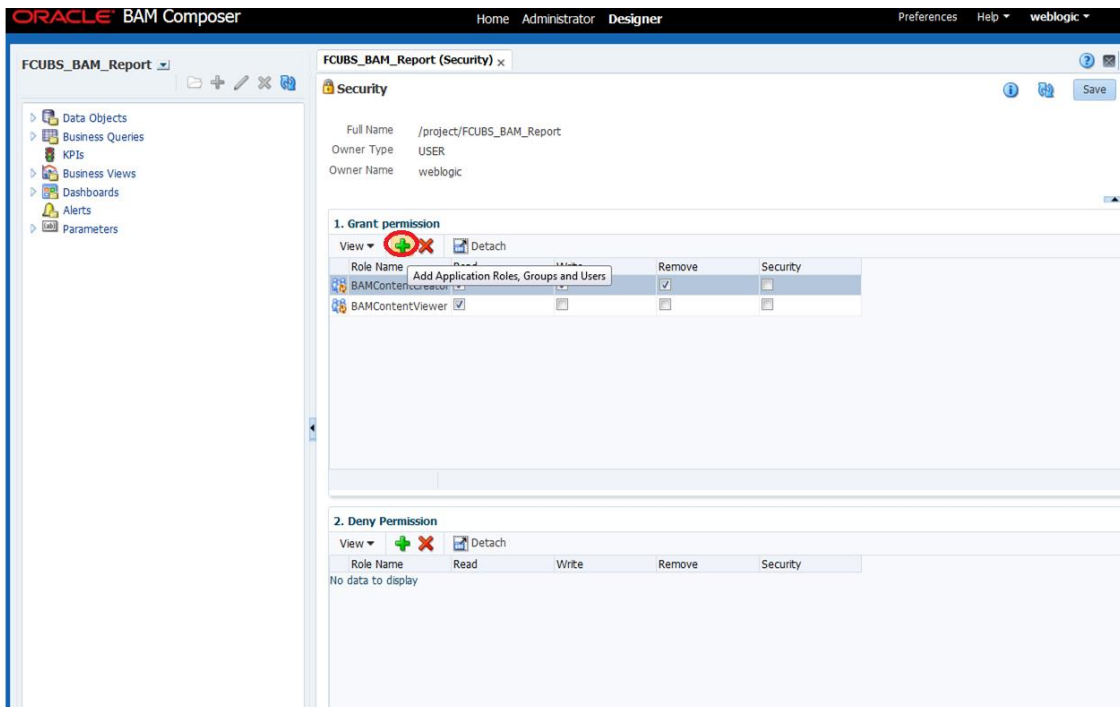
24. Click on FCUBS_BAM_report

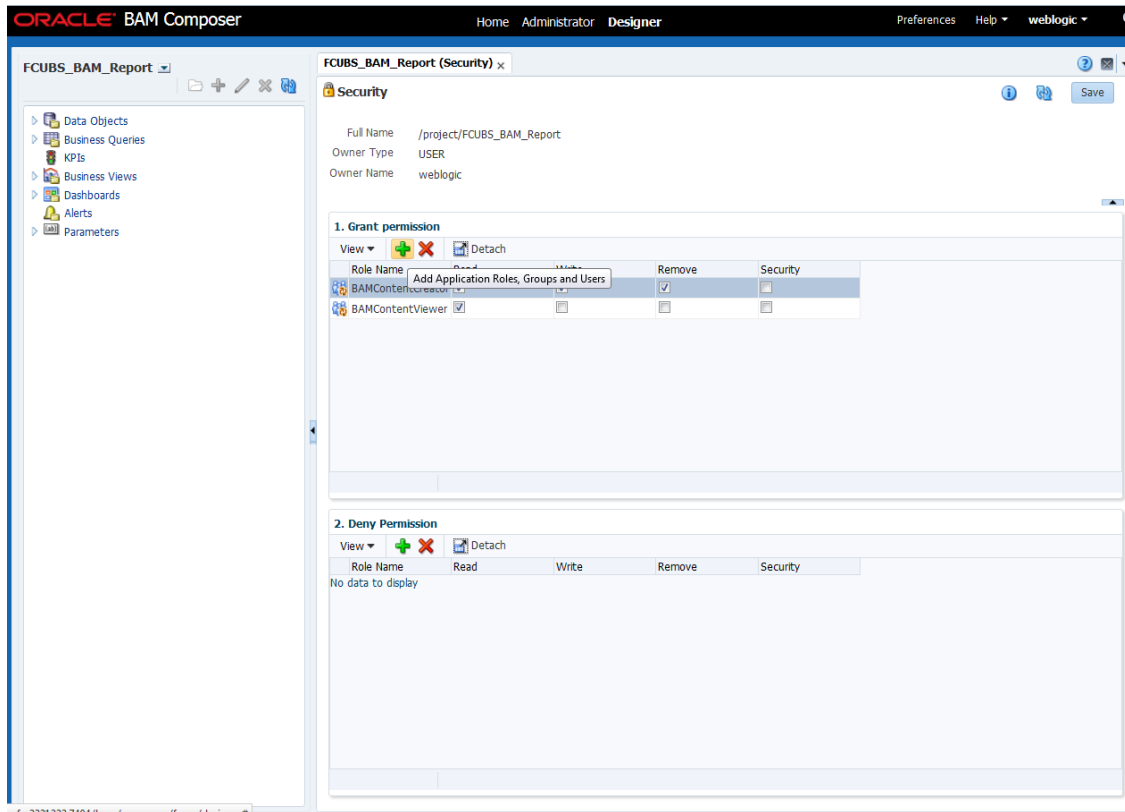


25. Click on FCUBS_BAM_Report → Security

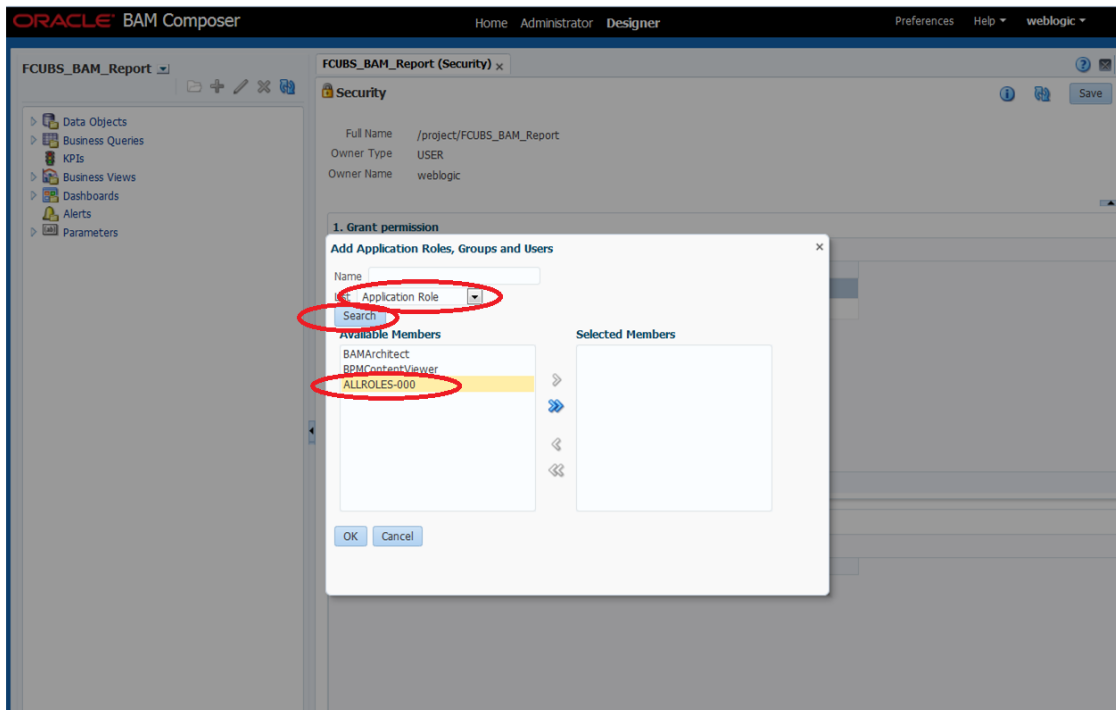


26. Click on ADD button Under Grant Permission.

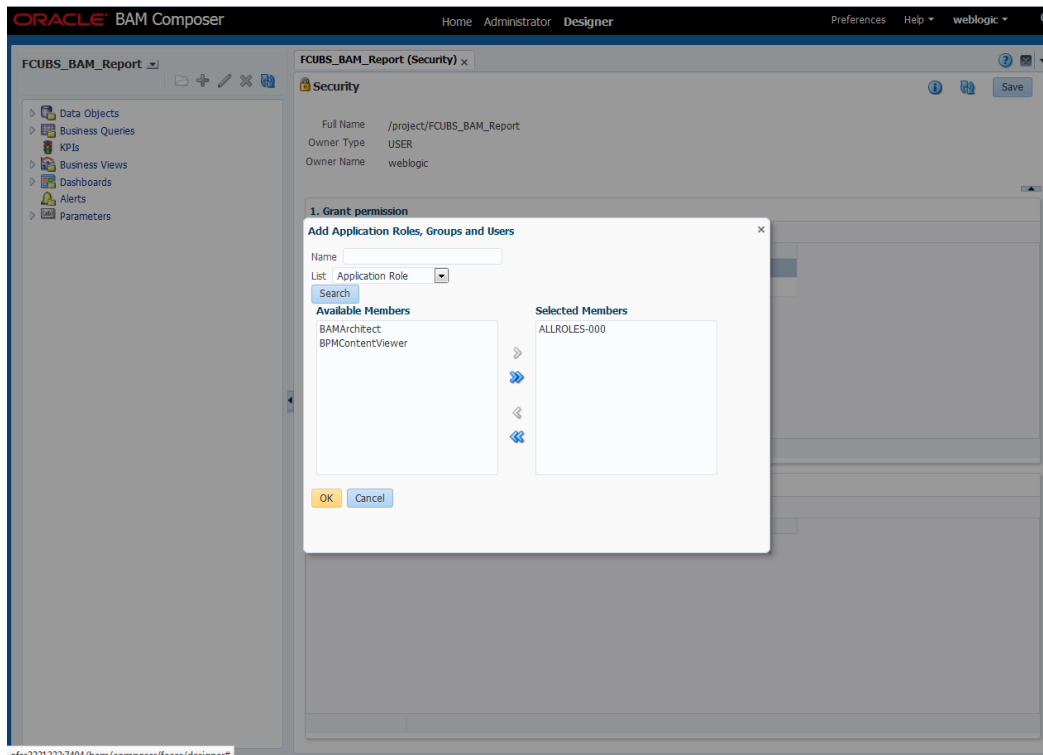




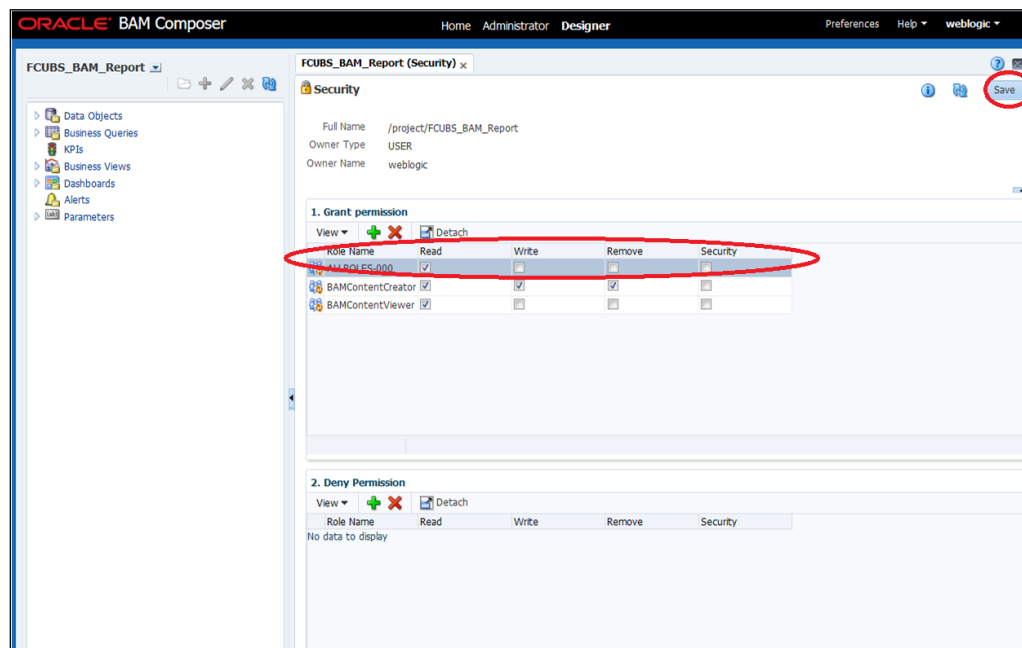
27. Search the List based on the Application Roles and Select the ALLROLES-000



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



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



1.2.10 IPM configuration to edit the document

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

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

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains a 'Domain Structure' tree with 'Security Realms' highlighted. The main content area is titled 'Settings for myrealm' and has tabs for 'Users' and 'Groups'. The 'Groups' tab is active, displaying a table of configured groups. A 'New' button is visible at the top left of 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, each with a description and a provider (Foubs or DefaultAuthenticator).

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

4) After Clicking on the new button,

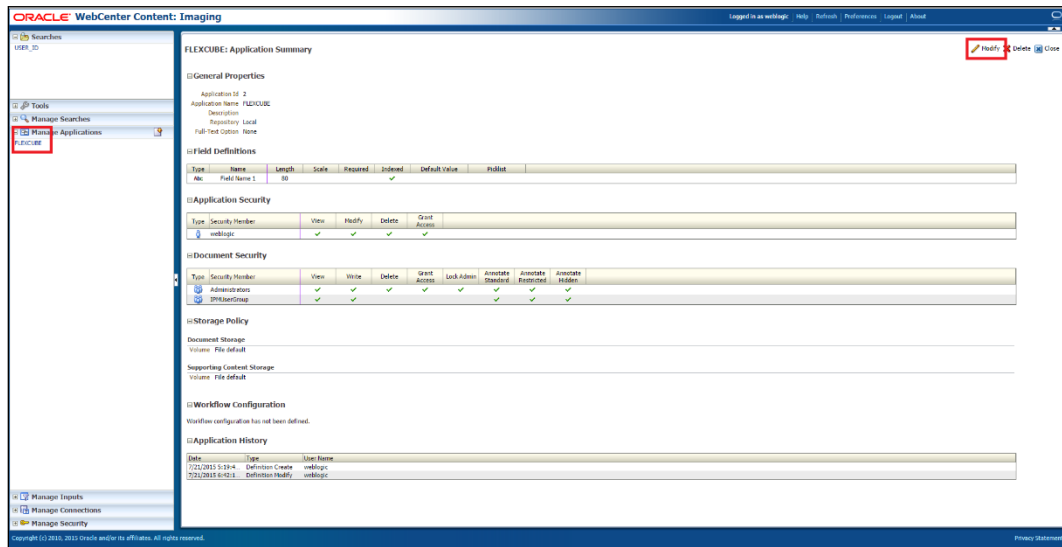
- Enter the name as “IPMUserGroup”
- Description for it (optional)
- And select the authenticator as “DefaultAuthenticator”
- And then click “Ok”

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there is a navigation pane with sections: 'Change Center' (with a link to 'View changes and restarts'), 'Domain Structure' (listing IPM_domain, Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics), 'How do I...' (with links to Create groups, Modify groups, Delete groups, Create users, and Manage users and groups), and 'System Status' (showing Health of Running Servers with a bar chart indicating 0 Failed, 0 Critical, 0 Overloaded, 0 Warning, and 3 OK). The main area displays the 'Create a New Group' dialog. It has 'OK' and 'Cancel' buttons at the top. Below, it says 'Group Properties' and 'The following properties will be used to identify your new Group.' It asks 'What would you like to name your new Group?' with an asterisk indicating a required field, and the text 'IPMUserGroup' is entered. It then asks 'How would you like to describe the new Group?' with the text 'User group for IPM' entered. Below that, it says 'Please choose a provider for the group.' and the 'Provider' dropdown is set to 'DefaultAuthenticator'. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The footer of the console shows 'WebLogic Server Version: 10.3.6.0' and copyright information.

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

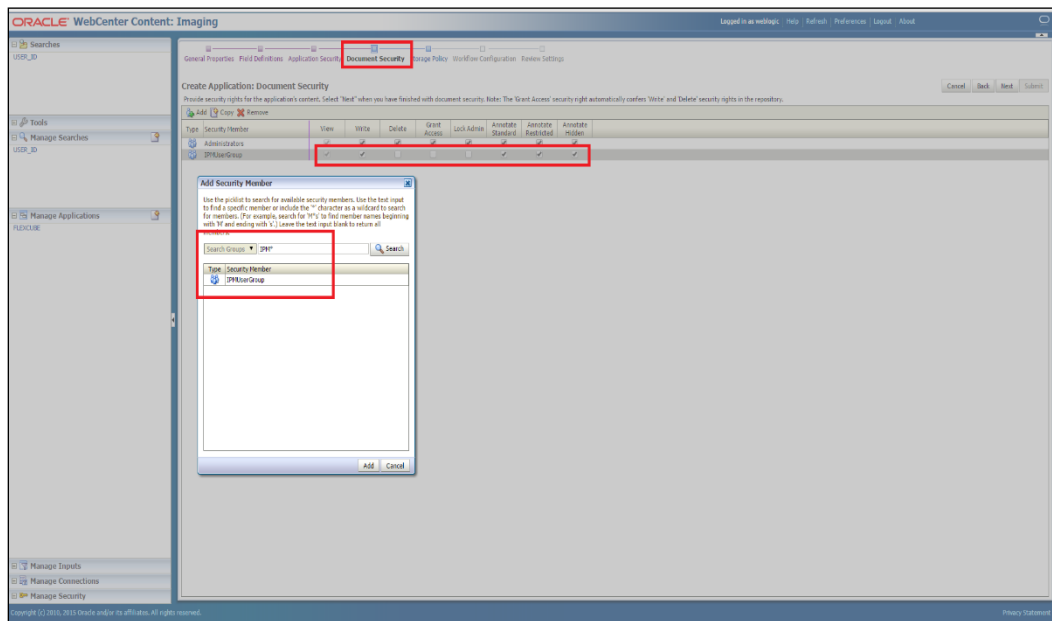
The screenshot shows the Oracle WebCenter Content: Imaging login page. It has a large blue header area. In the center, there is a 'Sign In' dialog box. The dialog box has fields for 'User ID' and 'Password', and a 'Sign In' button at the bottom. The footer of the page shows 'Copyright (c) 2010, 2013 Oracle and/or its affiliates. All rights reserved.' and a link to 'Privacy Statement'.

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



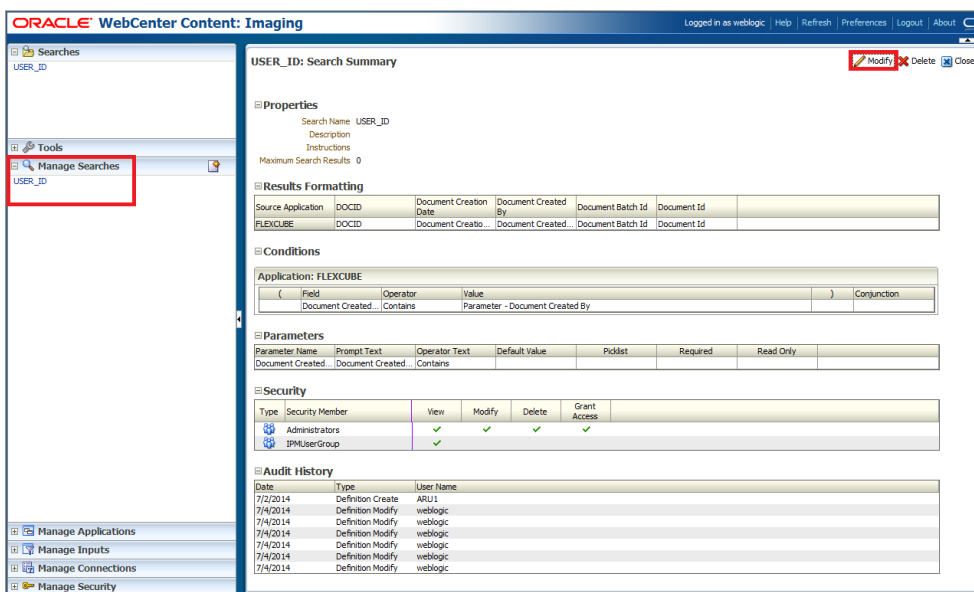
- 6) After clicking on the modify button,
 - a. Navigate to Document Security
 - b. Click on Add button
 - c. Click on Search button in the pop up window
 - d. Select the "IPMUserGroup"
 - e. Click on Add
 - f. IPMUserGroup will be listed in the panel, select view ,write,annotate Standard,Annotate Restricted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

g. Finally click on the submit button on the right corner

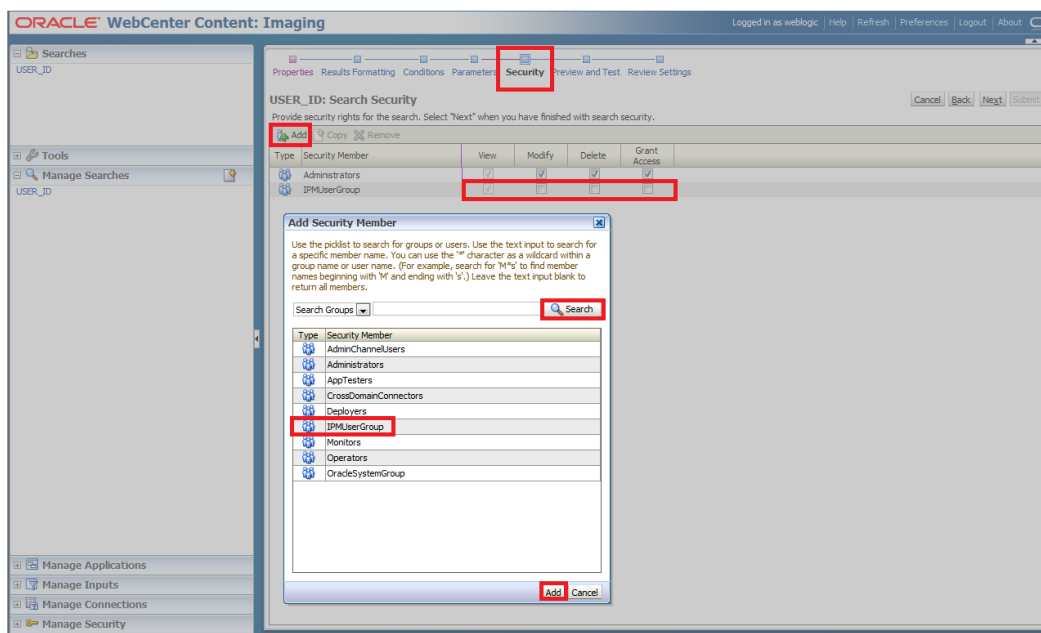


7) After clicking on the submit button,

- Navigate to Manage Searches
- Click on the available search (ex: USER_ID in this doc)
- Click on the modify



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



- 9) Copy the FCBPELCIS.jar to location
 <ORACLE_HOME>\user_projects\domains\<domain name>\lib
- 10) Go to the location – '<ORACLE_HOME>\user_projects\domains\<Domain_created>\config\fmwconfig'
- a. Open 'jps-config.xml' file. Search for '<serviceProviders>' tag and add the following code between '<serviceProviders>' and '</serviceProviders>' tags.

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


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

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



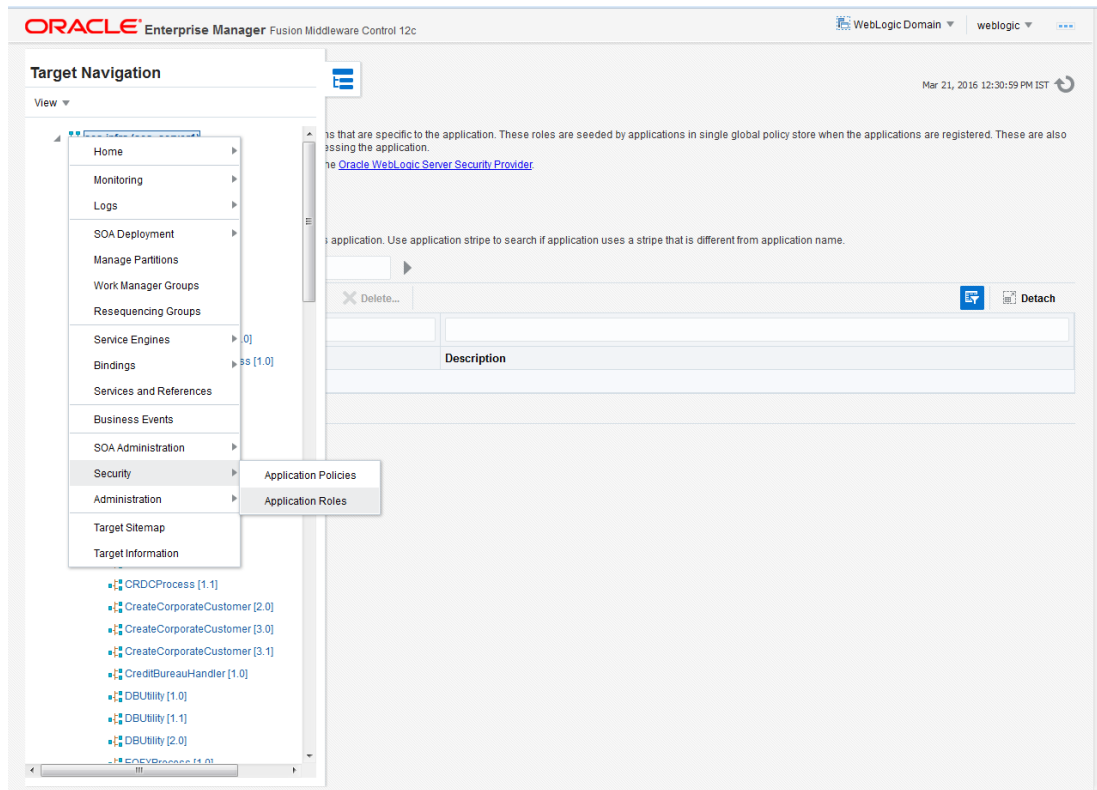
Make sure that the JNDI (jdbc/fcjdevDS) matches the value given during property file creation.

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

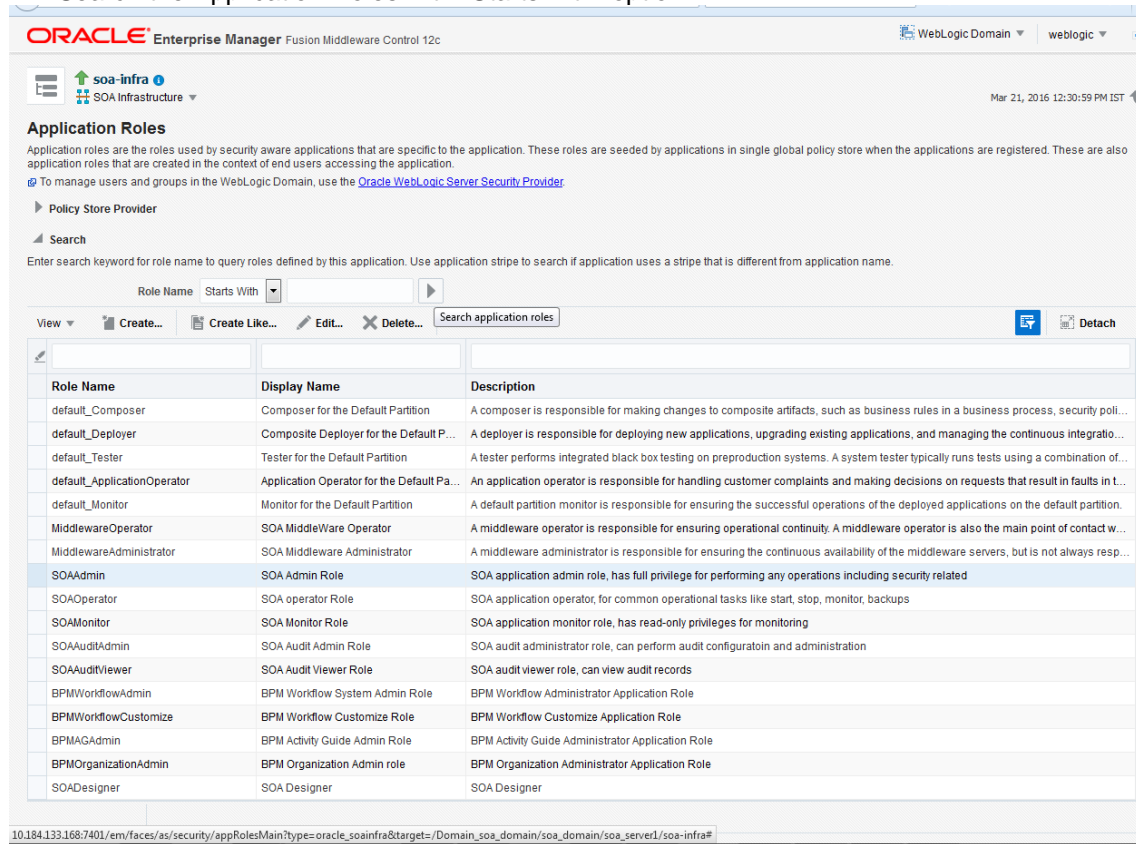
```
<jpsContext name="internalstore">
  <serviceInstanceRef ref="credstore"/>
  <serviceInstanceRef ref="keystore"/>
  <serviceInstanceRef ref="policystore.xml"/>
  <serviceInstanceRef ref="audit"/>
</jpsContext>
```

1.2.11 Configuring Supervisor Roles in EM

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



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



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

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

3. Select the SOAAdmin 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... Detach

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

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

ORACLE® Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

soa-infra | SOA Infrastructure

Mar 21, 2016 12:34:21 PM IST

Edit Application Role : SOAAdmin

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

General

Application Stripe: soa-infra

Role Name: SOAAdmin

Display Name: SOA Admin Role

Description: SOA application admin role, has full privilege for performing any operations including security related

Members

An application role may have members.

View Add

Name Administrators

Add Principal

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

Search

Type: Group

Principal Name: Starts With

Display Name: Starts With

Searched Principals

Principal	Display Name	Description
No search conducted		

Advanced Option

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

OK Cancel

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

Oracle Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

Mar 21, 2016 12:34:21 PM IST

Edit Application Role : SOAAdmin

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

General

Application Stripe: soa-infra

Role Name: SOAAdmin

Display Name: SOAAdmin

Description: SOAAdmin

Members

An application role may need members.

View: + Add

Add Principal

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

Search

Type: Group

Principal Name: Starts With ALLROLES-000

Display Name: Starts With

Searched Principals

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

Advanced Option

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

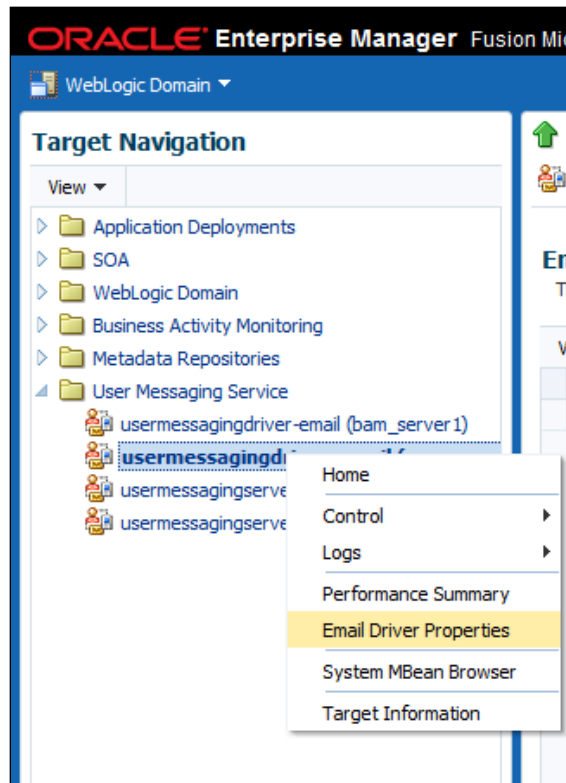
OK Cancel

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

6. Click on Ok .

1.2.12 Email Driver Configuration

1. Login to EM console
13. Navigate to User Messaging Service
14. Right click usermessagingdriver-email (soa_server1)
15. Click on Email Driver Properties



16. Enter the sender Address and default sender address (This id will be used as sender address).

17. .Enter the supported protocols (SMTP)

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

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

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

20. Enter the Outgoing mail server hostname or IP

21. .Enter the outgoing mail server port

22. .Enter the outgoing default from address

23. Enter the Outgoing user name and password if required

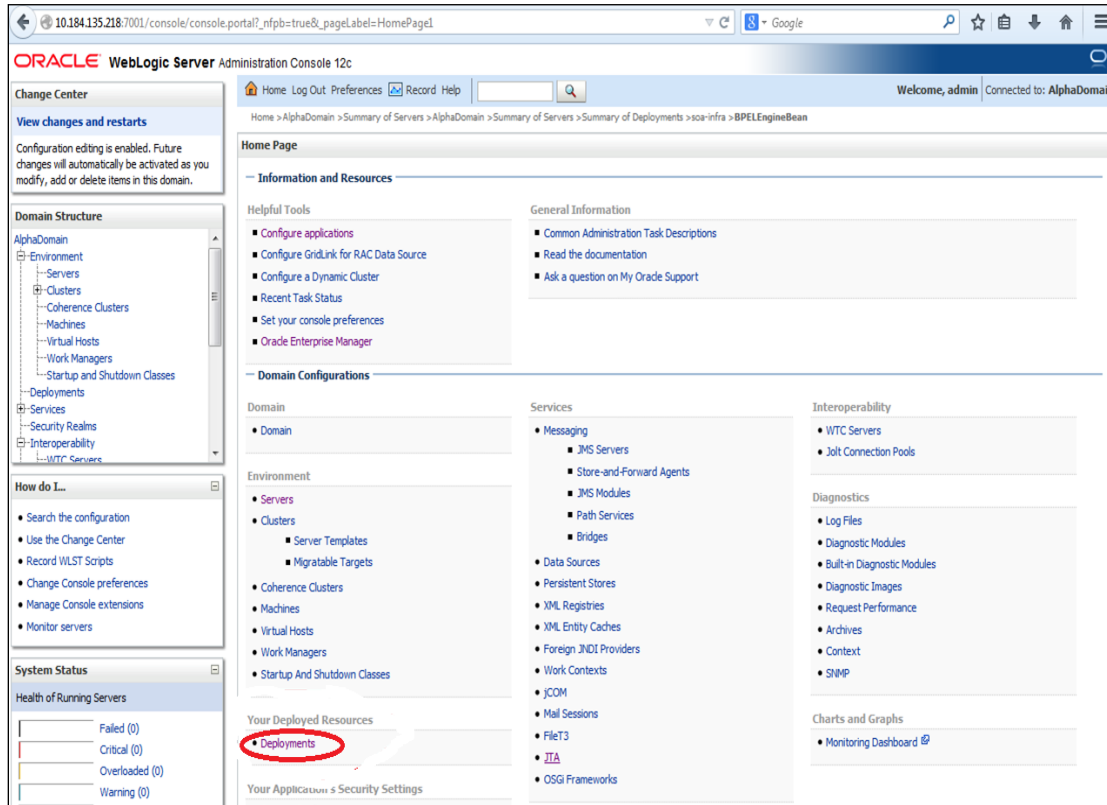
Name	Description	Mandatory	Encoded Credential	Value
Outgoing Mail Server	The name of the SMTP server. Mandatory only if e-mail sending is required.			XXXXXX
Outgoing Mail Server Port	Outgoing Mail Server Port			25
Outgoing Mail Server Security	The security used by SMTP server. Possible values are None, 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.			

24. Navigate to SOA Administration ->Workflow Properties

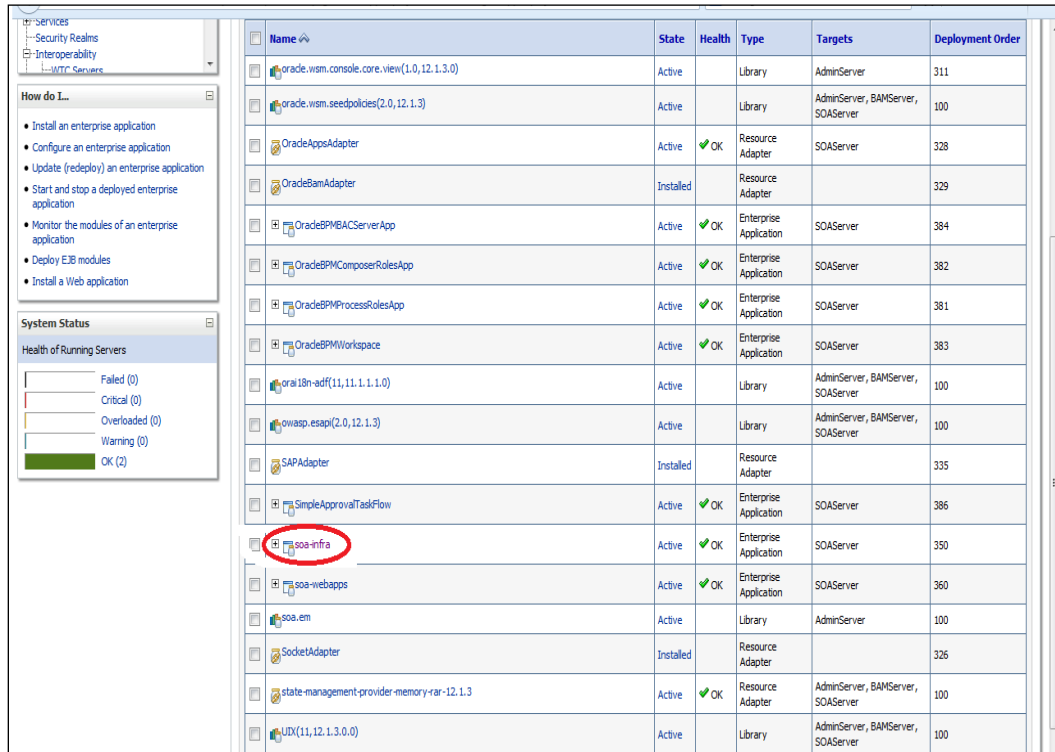
25. Select the notification mode as Email/ALL and enter the from address Actionable address and reply to Address.

1.2.13 TimeOut Settings for BPEL

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

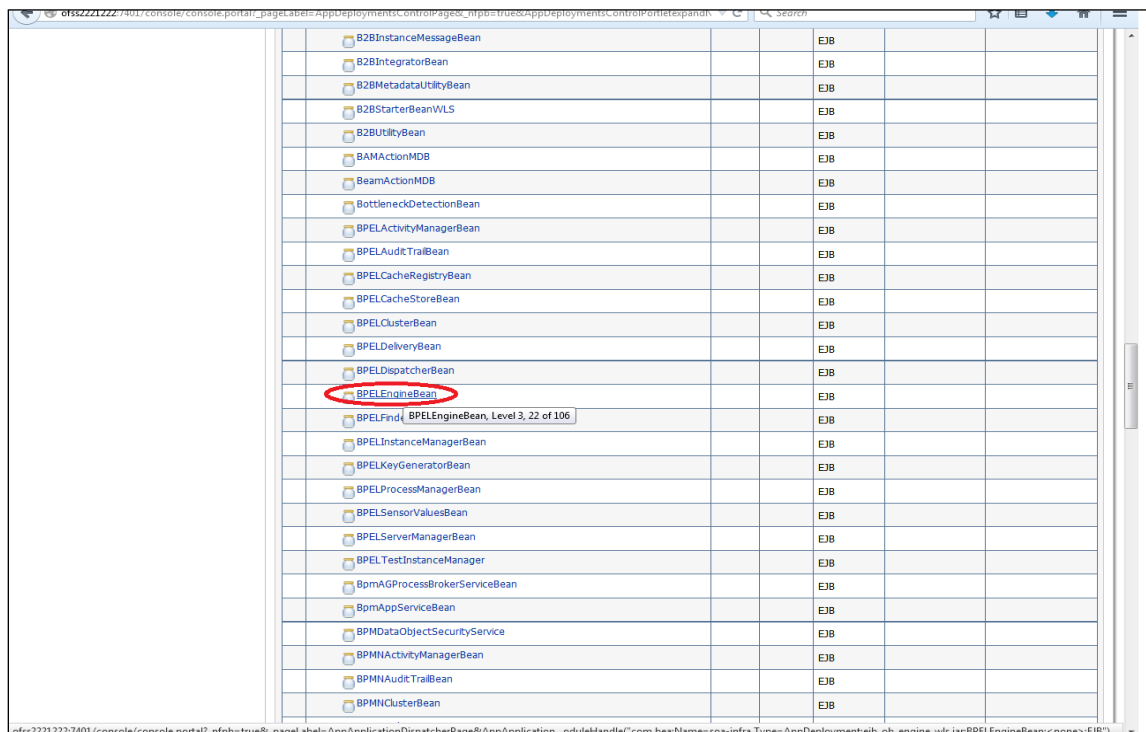


3. Click on SOA_INFRA Application under deployments.



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
oracle18n-adf(11.11.1.1.1.0)	Active		Library	AdminServer, BAMServer, SOAServer	100
owasp.esapi(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
SAPAdapter	Installed		Resource Adapter		335
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
soa-infra	Active	OK	Enterprise Application	SOAServer	350
soa-webapps	Active	OK	Enterprise Application	SOAServer	360
soa.em	Active		Library	AdminServer	100
SocketAdapter	Installed		Resource Adapter		326
state-management-provider-memory-rar-12.1.3	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
UDX(11,12.1.3.0.0)	Active		Library	AdminServer, BAMServer, SOAServer	100

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



B2BInstanceMessageBean	EJB
B2BIntegratorBean	EJB
B2BMetadataUtilityBean	EJB
B2BStarterBeanWLS	EJB
B2BUtilityBean	EJB
BAMActionMDB	EJB
BeamActionMDB	EJB
BottleneckDetectionBean	EJB
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

WebLogic Server Version: 12.1.3.0.0
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How do I...
• Configure Version 2.X EJBs
• View deployment status of EJBs
• Set EJB target servers and clusters
• Update (redeploy) EJBs
• Stop EJBs

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

Name: BPELEngineBean
The name of this bean. [More Info...](#)

Type: stateless
The EJB type (session, entity, or message). [More Info...](#)

Transaction Type: Container
The bean's transaction type. [More Info...](#)

EJB Class Name: com.collaxa.cube.engine.ejb.inpl.bpel.BPELEngineBean
EJB Class Name [More Info...](#)

Pool Configuration

Initial Beans in Free Pool: 100
The initial number of beans in the free pool. [More Info...](#)

Max Beans in Free Pool: 1000
The maximum number of beans in the free pool. When an EJB has been in the free pool for the number of seconds specified in Idle Timeout, and the total number of beans in the free pool approaches the maximum beans in free pool specified in this field, idle beans are removed from the free pool. [More Info...](#)

Idle Timeout: 0
The maximum length of time (in seconds) an EJB should remain in the cache or free pool before it is passivated or removed. [More Info...](#)

Enterprise Bean Configuration

Network Access Point:
Custom network channel that the EJB uses for network communications. [More Info...](#)

Run As Principal Name:
The security principal to be used as the run-as principal for a bean that has security-identity specified in its ejb-jar.xml file. [More Info...](#)

Create As Principal Name:
The principal to be used when ejbCreate would otherwise run with an anonymous principal. [More Info...](#)

Remove As Principal Name:
The principal to be used when ejbRemove would otherwise run with an anonymous principal. [More Info...](#)

Passivate As Principal Name:
The principal to be used when ejbPassivate would otherwise run with an anonymous principal. [More Info...](#)

JNDI Name:
The JNDI name of an EJB, resource, or reference in WebLogic Server. [More Info...](#)

Local JNDI Name:
The JNDI name for a bean's local Home. [More Info...](#)

Dispatch Policy:
Designates which server execute thread pool the EJB should run in. [More Info...](#)

Transaction Timeout: 300
The transaction timeout value, in seconds. [More Info...](#)

Save

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

B2BUtilityBean	EJB
BANActionMDB	EJB
BeamActionMDB	EJB
BottleneckDetectionBean	EJB
BPELActivityManagerBean	EJB
BPELAuditTrailBean	EJB
BPELCacheRegistryBean	EJB
BPELCacheStoreBean	EJB
BPELClusterBean	EJB
BPELDeliveryBean	EJB
BPELDispatcher	BPELDeliveryBean, Level 3, 20 of 106
BPELEngineBean	EJB
BPELFinderBean	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
BPMNDeliveryBean	EJB
BPMNDispatcherBean	EJB
BPMNEngineBean	EJB
BPMNFinderBean	EJB

WebLogic Server Version: 12.1.3.0.0

How do I...

- Configure Version 2.X EJBs
- View deployment status of EJBs
- Set EJB target servers and clusters
- Update (redeploy) EJBs
- Stop EJBs

System Status

Health of Running Servers

	Failed (0)
	Critical (0)
	Overloaded (0)
	Warning (0)
	OK (4)

Type: stateless The EJB type (session, entity, or message). [More Info...](#)

Transaction Type: Container The bean's transaction type. [More Info...](#)

EJB Class Name: com.collaxa.cube.engine.ejb.impl.bpel.BPELDeliveryBean EJB Class Name [More Info...](#)

Pool Configuration

Initial Beans in Free Pool: 200 The initial number of beans in the free pool. [More Info...](#)

Max Beans in Free Pool: 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: 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: Custom network channel that the EJB uses for network communications. [More Info...](#)

Run As Principal Name: The security principal to be used as the run-as principal for a bean that has security-identity specified in its ejb-jar.xml file. [More Info...](#)

Create As Principal Name: The principal to be used when ejbCreate would otherwise run with an anonymous principal. [More Info...](#)

Remove As Principal Name: The principal to be used when ejbRemove would otherwise run with an anonymous principal. [More Info...](#)

Passivate As Principal Name: The principal to be used when ejbPassivate would otherwise run with an anonymous principal. [More Info...](#)

JNDI Name: The JNDI name of an EJB, resource, or reference in WebLogic Server. [More Info...](#)

Local JNDI Name: The JNDI name for a bean's local Home. [More Info...](#)

Dispatch Policy: Designates which server execute thread pool the EJB should run in. [More Info...](#)

Transaction Timeout: 1800 The transaction timeout value, in seconds. [More Info...](#)

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

ORACLE WebLogic Server Administration Console 12c

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

Home > Summary of Deployments > dev_domain

Settings for dev_domain

Configuration Monitoring Control Security Web Service Security Notes

General **JTA** JPA EJBs Web Applications Logging Log Filters

Save

Use this page to define the Java Transaction API (JTA) configuration of this WebLogic Server domain.

Timeout Seconds: Specifies the maximum amount of time, in seconds, an active transaction is allowed to be in the first phase of a two-phase commit transaction. If the specified amount of time expires, the transaction is automatically rolled back. [More Info...](#)

Abandon Timeout Seconds: Specifies the maximum amount of time, in seconds, a transaction manager persists in attempting to complete the second phase of a two-phase commit transaction. [More Info...](#)

Before Completion Iteration Limit: The maximum number of cycles that the transaction manager performs the beforeCompletion synchronization callback for this WebLogic Server domain. [More Info...](#)

Max Transactions: The maximum number of simultaneous in-progress transactions allowed on a server in this WebLogic Server domain. [More Info...](#)

Max Unique Name Statistics: The maximum number of unique transaction names for which statistics are maintained. [More Info...](#)

Checkpoint Interval Seconds: The interval at which the transaction manager creates a new transaction log file and checks all old transaction log files to see if they are ready to be deleted. [More Info...](#)

☐ **Write recovery logs when determiners configured** Indicates two-phase transaction recovery logs are written even if one or more determiners are configured. [More Info...](#)

Determiners: Specifies a list of one or more transaction resources (determiners) separated by line breaks. A determiner's in-doubt transaction records are used during transaction recovery when a TLog is not present. [More Info...](#)

☒ **Forget Heuristics** Specifies whether the transaction manager automatically performs an XA Resource forget operation for heuristic transaction completions. [More Info...](#)

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

- dev_domain
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Configure domain JTA options
- Configure advanced domain JTA options

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (4)

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

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control console. On the left, the 'Target Navigation' tree shows the hierarchy: SOA > soa-infra > default > SOA Administration > BPEL Properties. The right pane shows the 'soa-infra (SOAServer)' configuration page. Under the 'Key Configuration' tab, the 'Profile' is set to 'BPM BASIC', 'Instance Tracking' is 'Production', 'Default Query Duration' is 'Last 24 Hours', and 'Auto Purge' is 'Enabled'. The 'SOA Runtime Health' section shows 'soa-infra (SOAServer)' with a status of 'Initialized Successfully'. The 'Composites and Adapters Availability' section shows four green checkmarks: 'No Composite Start-Up Errors', 'No EIS Connectivity Errors', 'All Composites are UP', and 'All adapter service endpoints are UP'. The 'System Backlogs' section shows 'Messages in Queues' with a list of BPEL and Mediator processes.

System MBean Browser
Application Defined MBeans: BPelConfig:bpel

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

Show MBean Information

Attributes	Operations	Notifications	Name	Description	Access	Value
			22 MaximumNumberOfInvokeMessages	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 QualityOfServiceOneWayDeliveryPolicy	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
			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

1.3 Integrating Oracle FLEXCUBE IS and Scheduler

Before deploying the Oracle FLEXCUBE IS 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.gzip file from the following URL:
<http://www.quartz-scheduler.org/download/download-catalog.html>
1. Extract the gzip 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 IS and BIP Reports

You can integrate Oracle FLEXCUBE IS 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 IS and MBean

In order to integrate Oracle FLEXCUBE IS and MBean, you need to follow the below steps before deploying the Oracle FLEXCUBE IS 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
[May] [2022]
Version 14.5.4.0.0

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