

Setting up Plug-Ins
Oracle FLEXCUBE Universal Banking
Release 14.2.0.0.0
[December] [2018]



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1. Setting Up Plug-Ins

1.1 Introduction

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

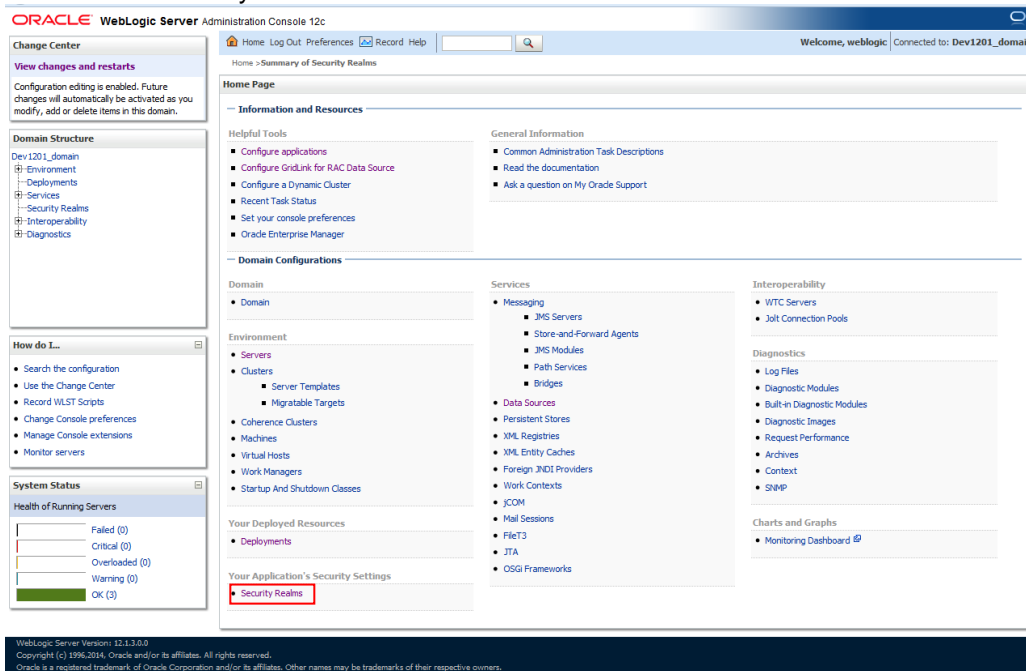
1.2 Integrating Oracle FLEXCUBE UBS and BPEL

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

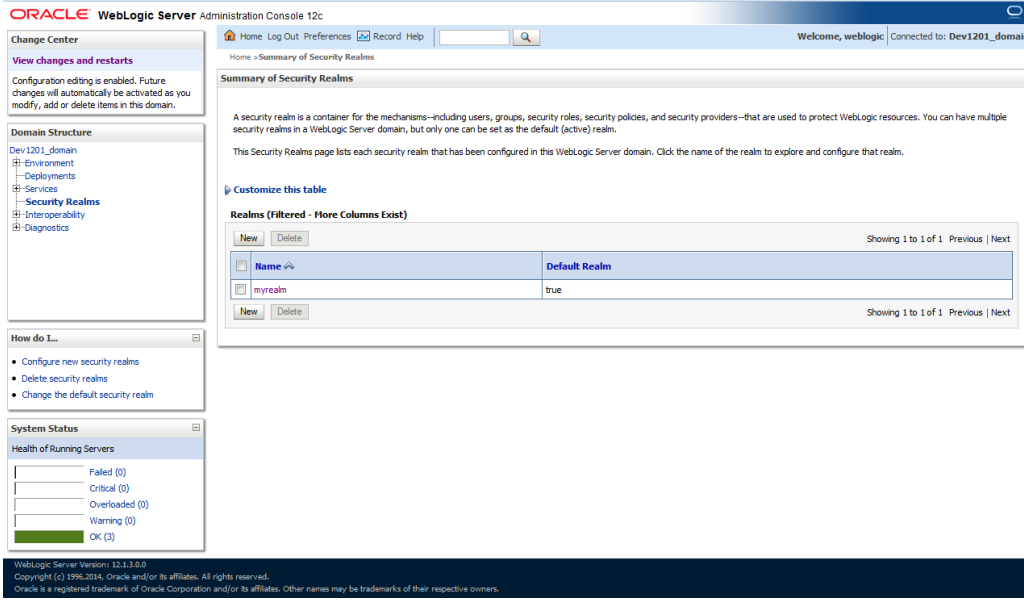
1.2.1 Custom Provider Configuration

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

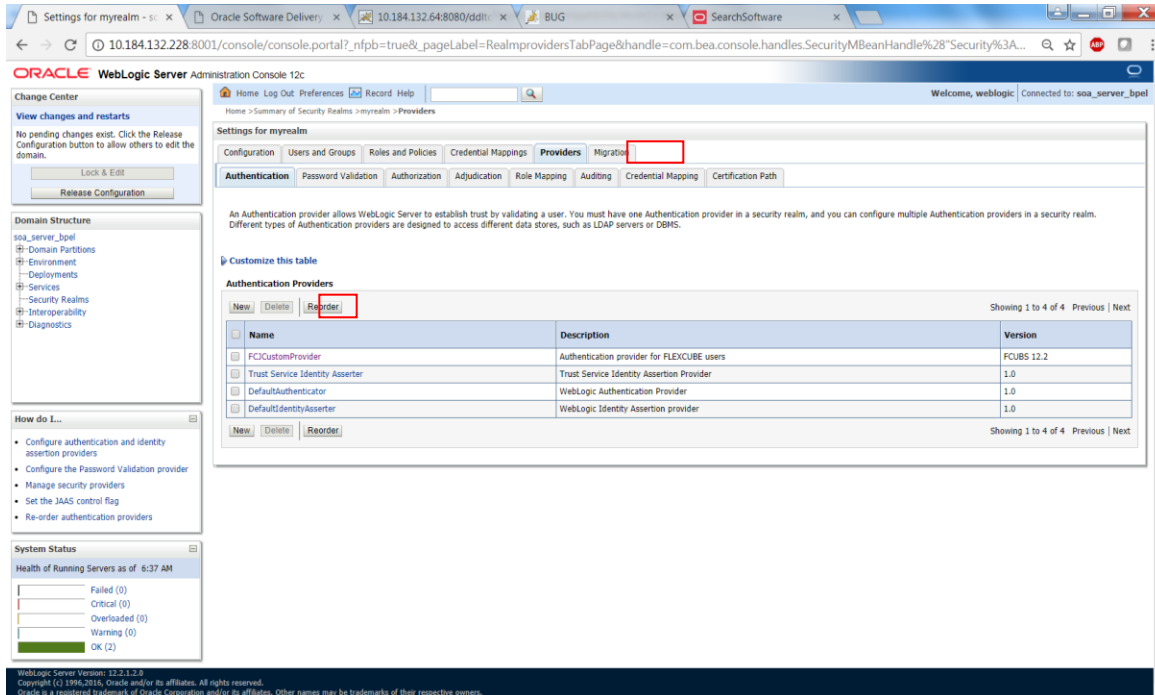
1. Along with FCUBS Ear file, Installer creates FCUBSUserAuthenticator.jar file inside the BPELbuild folder.
 - a. Copy this file to the following path on the application server host
<ORACLE_HOME>\wlserver\server\lib\mbeantypes .
2. Restart the Admin Server.
3. Login to the Console.
4. Click on Security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



5. Click on myrealm.



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.

The screenshot shows the Oracle WebLogic Server Administration Console interface. On the left, there are several panels: 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main area displays a dialog box titled 'Create a New Authentication Provider'. The dialog contains the following information:

- Buttons: OK, Cancel
- Section: Create a new Authentication Provider
- Text: The following properties will be used to identify your new Authentication Provider. * Indicates required fields
- Text: The name of the authentication provider.
- Field: * Name: FCJCustomProvider
- Text: This is the type of authentication provider you wish to create.
- Field: Type: FCUBSUserAuthenticator
- Buttons: OK, Cancel

At the bottom of the console, the version information is displayed: WebLogic Server Version: 12.1.3.0.0. Copyright (c) 1996-2014, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main area displays the 'Settings for myrealm' page, specifically the 'Providers' tab. Below the navigation tabs, there is a table titled 'Authentication Providers'.

Messages: Create operation canceled - no Authentication Providers created.

Settings for myrealm: Configuration, Users and Groups, Roles and Policies, Credential Mappings, **Providers**, Migration

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

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

Customize this table

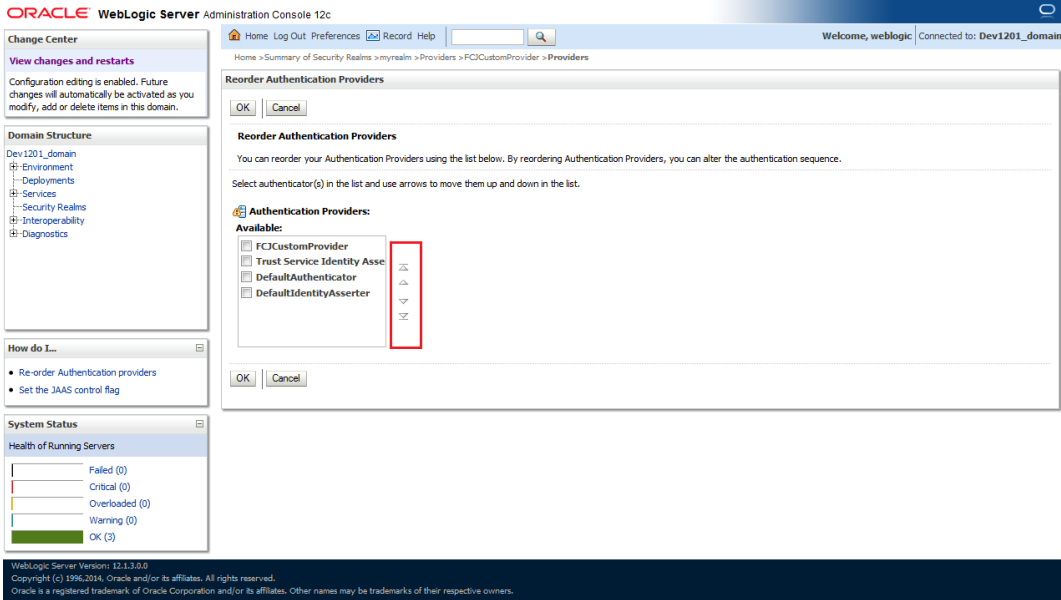
Authentication Providers

New Delete Reorder Showing 1 to 4 of 4 Previous Next

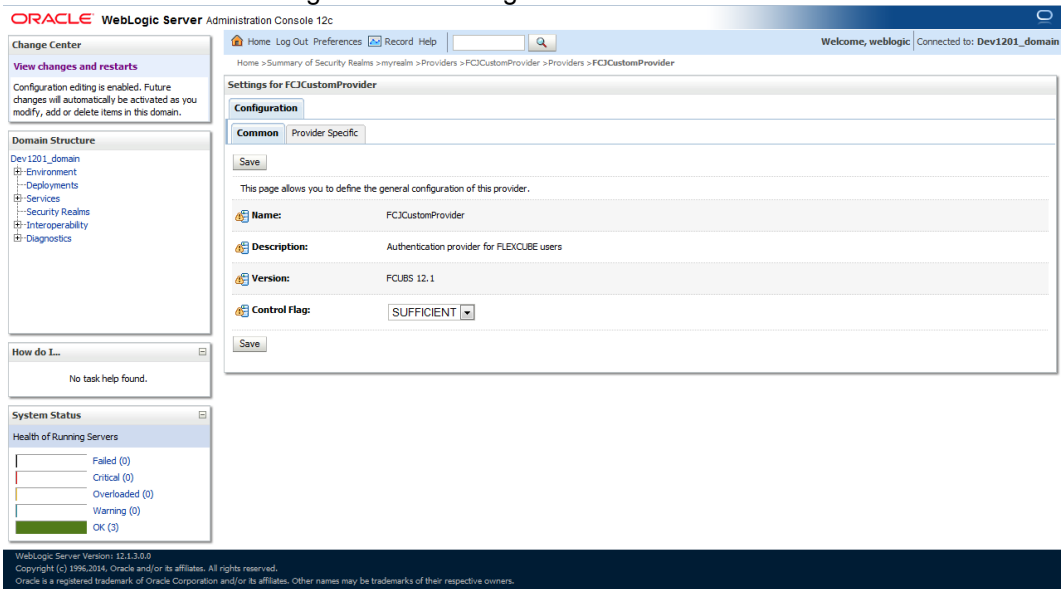
Name	Description	Version
<input type="checkbox"/> FCJCustomProvider	Authentication provider for FLEXCLUBE users	FCUBS 12.1
<input type="checkbox"/> Trust Service Identity Asserter	Trust Service Identity Asserion Provider	1.0
<input type="checkbox"/> DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/> DefaultIdentityAsserter	WebLogic Identity Asserion provider	1.0

New Delete Reorder Showing 1 to 4 of 4 Previous Next

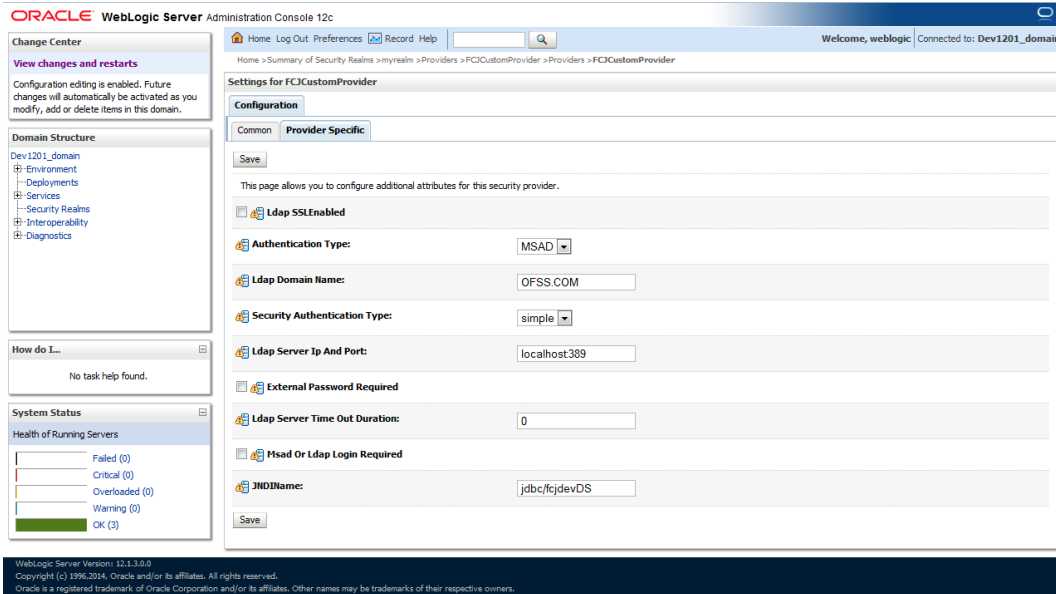
At the bottom of the console, the version information is displayed: WebLogic Server Version: 12.1.3.0.0. Copyright (c) 1996-2014, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.



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 are used in FCUBS then Fill the Ldap/MSAD related fields.



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

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

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

1.2.2 Configuring libovd for single Entity

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

1. Along with the Oracle FLEXCUBE UBS EAR file, the Installer creates 'FCJJPSPProvider.jar' file inside the BPELbuild folder under SOURCE directory.
2. On the application server host, create a folder by name 'classes' at the location '<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x'.

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



fcubs_adapter.xml

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


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


```
./libovdadapterconfig.sh -adapterName fcubsadapter -adapterTemplate fcubs_adapter.xml -host
<ADMIN_SERVER_HOST> -port <ADMIN_PORT> -userName <WEBLOGIC_USERID> -domainPath
<DOMAIN_HOME> -dataStore DB -root ou=fcubs,dc=oracle,dc=com -contextName default -
dataSourceJNDIName <FCUBS_DATASOURCE_JNDI>
```

```
Ex:-[ ./libovdadapterconfig.sh -adapterName fcubsadapter -adapterTemplate fcubs_adapter.xml -host
10.10.10.10 -port 1010 -userName weblogic -domainPath
/scratch/app/bpm12213/user_projects/domains/DOMAINNAME -dataStore DB -root
ou=fcubs,dc=oracle,dc=com -contextName default -dataSourceJNDIName jdbc/fcjdevDS]
```
10. Once the above steps are completed, i.e. "Adapter created successfully: fcubsAdapter" message is displayed, restart the server.

1.2.3 Configuring libovd for MultiEntity

1. Continue step 1 to step5 from 1.2.2 section.

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



fcubs_adapter_<EntityId>.xml

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

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

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

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 step7 for each entity creation
10. Once the above steps are completed, restart the server.

Note:- for any misconfiguration in libovd

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

For deleting fcubsAdapter use the below command:

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

MW_HOME/oracle_common/common/bin/wlst.sh

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

Connect to your Administration Server using the following syntax:

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

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

Delete the misconfigured adapter using the following syntax:
deleteAdapter(adapterName='fcubsAdapter')

1.2.4 Configuring for Multiple Providers for Multiple Entities

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

The screenshot displays the Oracle WebLogic Administration Console interface. On the left, the 'Domain Structure' tree shows the hierarchy: soa_domain > Domain Partitions > Environment > Deployments > Services > Security Realms. Below this, the 'System Status' section shows the 'Health of Running Servers' with a green bar indicating 'OK (2)'. The main content area is titled 'Information and Resources' and contains several panels: 'Helpful Tools' (with links like 'Configure applications'), 'Domain Configurations' (with 'Domain' selected), 'Domain Partitions' (with 'Domain Partitions' selected), 'Environment' (with 'Servers' selected), and 'Application's Security Settings' (with 'Security Realms' selected and highlighted by a red box). Other panels include 'General Information', 'Resource Group Templates', 'Resource Groups', 'Deployed Resources', 'Services', 'Interoperability', 'Diagnostics', and 'Charts and Graphs'. The footer of the console shows 'WebLogic Server Version: 12.2.1.0.0' and copyright information.

3. Click on myrealms.

ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic | Connected to: soa_doma

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

Summary of Security Realms

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

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

Customize this table

Realms (Filtered - More Columns Exist)

Name	Default Realm
myrealm	true

Showing 1 to 1 of 1 Previous | Next

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4. Click on Providers.

ORACLE WebLogic Server Administration Console 12c

Welcome, weblogic | Connected to: soa_doma

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

Settings for myrealm

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

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

Save

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

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

Name: myrealm The name of this security realm. [More Info...](#)

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

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

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

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

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

Advanced

Save

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5. Click on New

ORACLE WebLogic Server Administration Console 12c

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

Settings for myrealm

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

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

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

Customize this table

Authentication Providers

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

WebLogic Server Version: 12.2.1.0.0
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6. Enter the Name with proper Entity Name(entity name we mapped in property file) and select the type as FCUBSUserAuthenticator

ORACLE WebLogic Server Administration Console 12c

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

Create a New Authentication Provider

OK | Cancel

Create a new Authentication Provider

The following properties will be used to identify your new Authentication Provider.
* Indicates required fields

The name of the authentication provider.

Name: ENTITYID

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

Type: FCUBSUserAuthenticator

OK | Cancel

WebLogic Server Version: 12.2.1.0.0
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7. Click on Reorder. Bring the Authenticatorprovider to the first in the order and click ok.

ORACLE WebLogic Server Administration Console 12c

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

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

Reorder Authentication Providers

OK Cancel

Reorder Authentication Providers

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

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

Authentication Providers:

Available:

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

OK Cancel

Change Center

View changes and restarts

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

Domain Structure

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

How do I...

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

System Status

Health of Running Servers

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

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8. Click the Provider that we have created.

ORACLE WebLogic Server Administration Console 12c

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

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

Settings for myrealm

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

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

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

Customize this table

Authentication Providers

New Delete Reorder Showing 1 to 5 of 5 Previous Next

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

New Delete Reorder Showing 1 to 5 of 5 Previous Next

Change Center

View changes and restarts

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

Domain Structure

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

How do I...

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

System Status

Health of Running Servers

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

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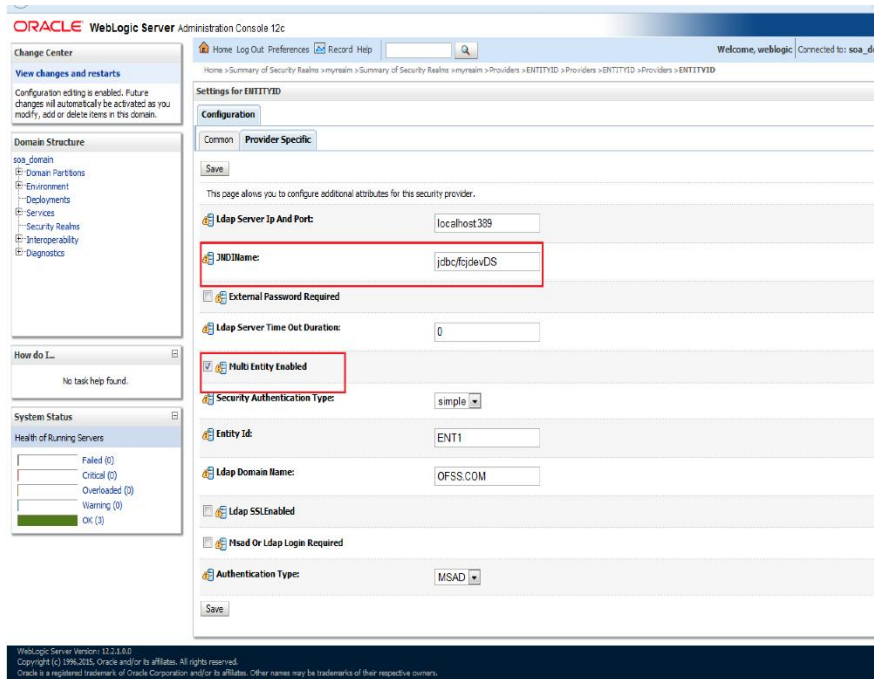
9. In common tab select the control flag as SUFFICIENT from the list and click on save.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains sections for Change Center, Domain Structure, How do I..., and System Status. The main content area is titled 'Settings for ENTITYID' and has a 'Configuration' sub-section with 'Common' and 'Provider Specific' tabs. The 'Common' tab is active, showing a 'Save' button at the top, followed by a description: 'This page allows you to define the general configuration of this provider.' Below this are several configuration items: 'Name' (ENTITYID), 'Description' (Authentication provider for FLEXCUBE users), 'Version' (FCUBS 12.2), and 'Control Flag' (SUFFICIENT). A 'Save' button is located at the bottom of the configuration area. The footer of the console displays 'WebLogic Server Version: 12.2.1.0.0' and copyright information.

10. Select the provider specific tab .

The screenshot shows the Oracle WebLogic Server Administration Console with the 'Settings for ENTITYID' page in the 'Provider Specific' tab. The 'Common' tab is also visible. The 'Provider Specific' tab is active, showing a 'Save' button at the top, followed by a description: 'This page allows you to configure additional attributes for this security provider.' Below this are several configuration items: 'Ldap Server Ip And Port' (localhost389), 'JNDIName' (jdbc/fejdevDS), 'External Password Required' (checkbox), 'Ldap Server Time Out Duration' (0), 'Multi Entity Enabled' (checkbox), 'Security Authentication Type' (simple), 'Entity Id' (ENT1), 'Ldap Domain Name' (OFSS.COM), 'Ldap SSL Enabled' (checkbox), 'Msad Or Ldap Login Required' (checkbox), and 'Authentication Type' (MSAD). A 'Save' button is located at the bottom of the configuration area. The footer of the console displays 'WebLogic Server Version: 12.2.1.0.0' and copyright information.

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



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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for ENTITYID" and is divided into "Common" and "Provider Specific" tabs. The "Provider Specific" tab is active, showing various configuration fields:

- Ldap Server Ip And Port:** localhost389
- JNDIName:** jdbc/fcdevDS
- External Password Required:** (unchecked)
- Ldap Server Time Out Duration:** 0
- Multi Entity Enabled:** (checked)
- Security Authentication Type:** simple
- Entity Id:** ENT1 (highlighted with a red box)
- Ldap Domain Name:** OFSS.COM
- Ldap SSL Enabled:** (unchecked)
- Msad Or Ldap Login Required:** (unchecked)
- Authentication Type:** MSAD

On the left side, there are several panels: "Change Center" with a "View changes and restarts" link, "Domain Structure" showing a tree view of the domain, "How do I..." with a search bar, and "System Status" showing the health of running servers with a bar chart indicating 3 OK servers.

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

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

1.2.5 Configuring DBAdapter

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

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains navigation menus for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main content area displays the 'Summary of Deployments' page, which includes a table of installed applications.

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

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

The screenshot shows the 'Settings for DbAdapter' page in the Oracle WebLogic Server Administration Console. The 'Outbound Connection Pools' tab is selected, displaying a table of configuration details.

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

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



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

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for javax.resource.cci.ConnectionFactory' page. The 'Properties' tab is selected, showing a table of 'Outbound Connection Properties'. The table has four columns: 'Property Name', 'Property Type', 'Property Value', and 'Supports Dynamic Updates'. The 'DataSourceName' property is highlighted, and its value is 'jdbc/fgdev05'. The 'Property Value' field for 'DataSourceName' is selected, indicating it is ready to be edited.

Property Name	Property Type	Property Value	Supports Dynamic Updates
DataSourceName	java.lang.String	jdbc/fgdev05	false
DefaultChar	java.lang.Boolean	false	false
PlatformClassName	java.lang.String	org.eclipse.persistence.platform.database.Oracle10Platform	false
SequencePreallocatorSize	java.lang.Integer	50	false
UsesBatchWriting	java.lang.Boolean	true	false
UsesNativeSequencing	java.lang.Boolean	true	false
UsesSkipLocking	java.lang.Boolean	true	false
XADataSourceName	java.lang.String		false

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

1.2.6 Configuring JMS Adapter

Login in to console → Click on JMS Servers→New

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The page title is "Home Page" and the breadcrumb is "Home > AlphaDomain > Summary of JMS Servers". The page is divided into several sections:

- Information and Resources:** Includes helpful tools like "Configure applications", "Configure GridLink for RAC Data Source", and "Configure a Dynamic Cluster".
- Domain Configurations:** Lists configurations for the domain, environment, and services.
- Services:** A tree view showing "Messaging" with "JMS Servers" highlighted in red.
- Interoperability:** Lists "WTC Servers" and "Jolt Connection Pools".
- Diagnostics:** Lists "Log Files", "Diagnostic Modules", "Built-in Diagnostic Modules", "Diagnostic Images", "Request Performance", "Archives", "Context", and "SNMP".
- Charts and Graphs:** Includes a "Monitoring Dashboard".
- System Status:** Shows the health of running servers: Failed (0), Critical (0), Overloaded (0), Warning (0), and OK (2).

The screenshot shows the "Summary of JMS Servers" page in the Oracle WebLogic Server Administration Console 12c. The page title is "Summary of JMS Servers" and the breadcrumb is "Home > AlphaDomain > Summary of JMS Servers".

The page contains the following text:

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

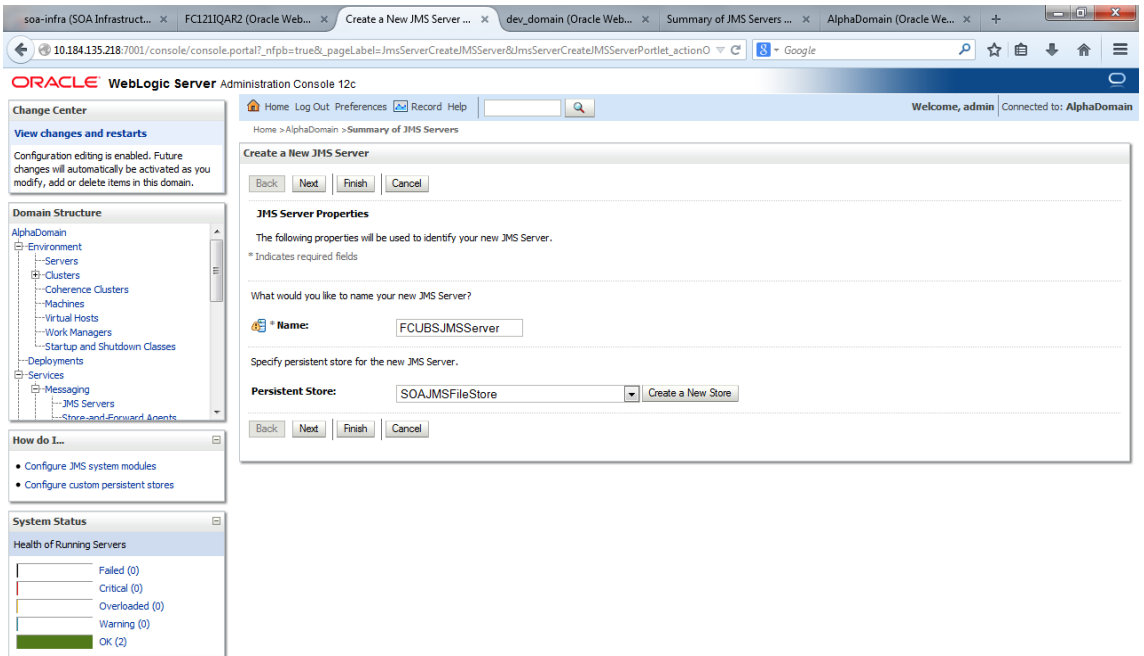
Customize this table

JMS Servers (Filtered - More Columns Exist)

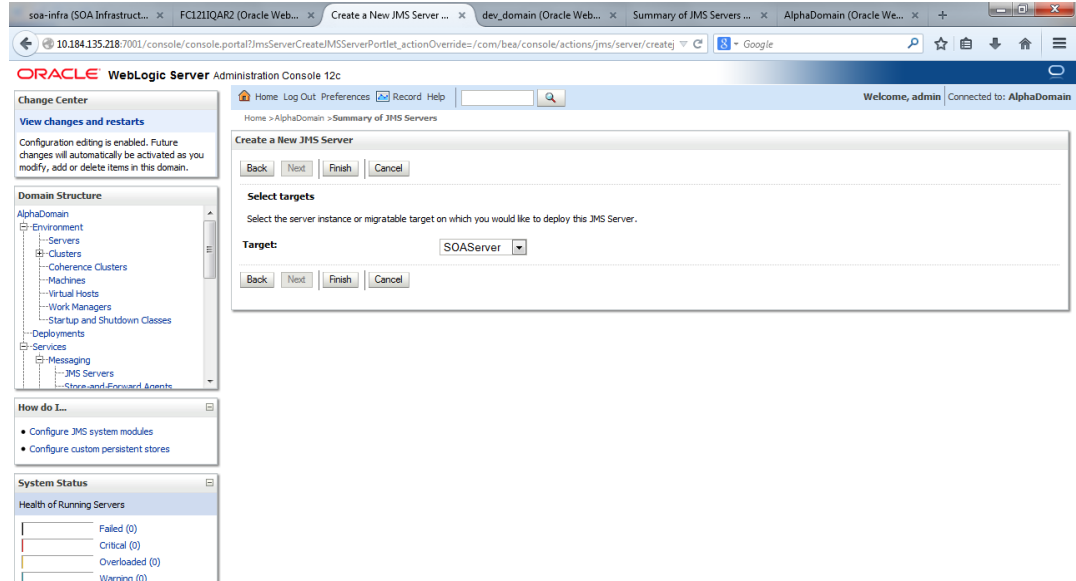
Name	Persistent Store	Target	Current Target	Health
BamAlertEngineJmsServer	BamAlertEngineJmsFileStore	BAMServer	BAMServer	
BamCQServiceJmsServer_BAMServer	BamCQServiceJmsFileStore_BAMServer	BAMServer	BAMServer	
BamReportCacheJmsServer	BamReportCacheJmsFileStore	BAMServer	BAMServer	
BamServerJmsServer_BAMServer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

The "New" button in the table header is highlighted with a red circle.

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



2. Select the target as SOA Server →Finish



Oracle WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Change Center

View changes and restarts

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

Domain Structure

AlphaDomain

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

How do I...?

- Configure JMS servers
- Configure JMS system modules

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

Messages

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

Summary of JMS Servers

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

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

Customize this table

JMS Servers (Filtered - More Columns Exist)

New Delete

Showing 1 to 9 of 9 Previous | Next

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

New Delete

Showing 1 to 9 of 9 Previous | Next

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3. Go back to Console →JMS Modules→New

Oracle WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

Change Center

View changes and restarts

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

Domain Structure

AlphaDomain

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

How do I...?

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

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

Home Page

Information and Resources

Helpful Tools

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

General Information

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

Domain Configurations

Domain

- Domain

Environment

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

Your Deployed Resources

- Deployments

Your Application's Security Settings

- Security Realms

Services

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

Interoperability

- WTC Servers
- Jolt Connection Pools

Diagnostics

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

Charts and Graphs

- Monitoring Dashboard

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The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of JMS Modules' page. A table lists existing JMS modules, and a red circle highlights the 'New' button above the table. The table contains the following entries:

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

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

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

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

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

* Indicates required fields

What would you like to name your System Module?

* Name:

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

Descriptor File Name:

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

Location In Domain:

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

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ORACLE WebLogic Server Administration Console 12c

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

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

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

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

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

WebLogic Server Version: 12.1.3.0.0

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

soa-infra (SOA Infrastruct... x FC121QAR2 (Oracle Web... x Settings for FCUBSJM... x dev_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

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

ORACLE WebLogic Server Administration Console 12c

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

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

Domain Structure
AlphaDomain
- Environment
- Servers
- Clusters
- Coherence Clusters
- Machines
- Virtual Hosts
- Work Managers
- Startup and Shutdown Classes
- Deployments
- Services
- 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 > AlphaDomain > Summary of JMS Servers > Summary of JMS Modules > FCUBSJMModule

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

Settings for FCUBSJMModule

Configuration Subdeployments Targets Security Notes

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

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

Descriptor File Name: jms/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

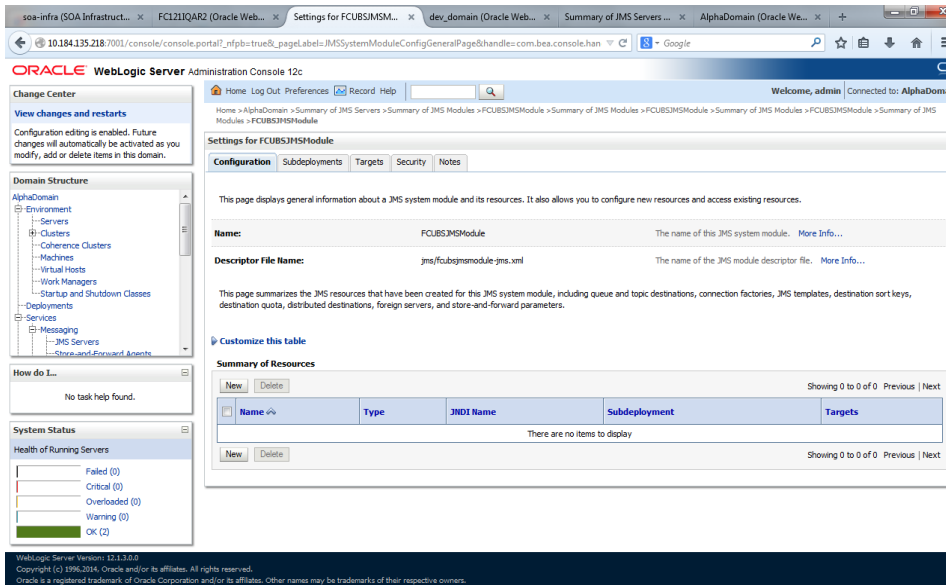
Summary of Resources

New Delete Showing 0 to 0 of 0 Previous Next

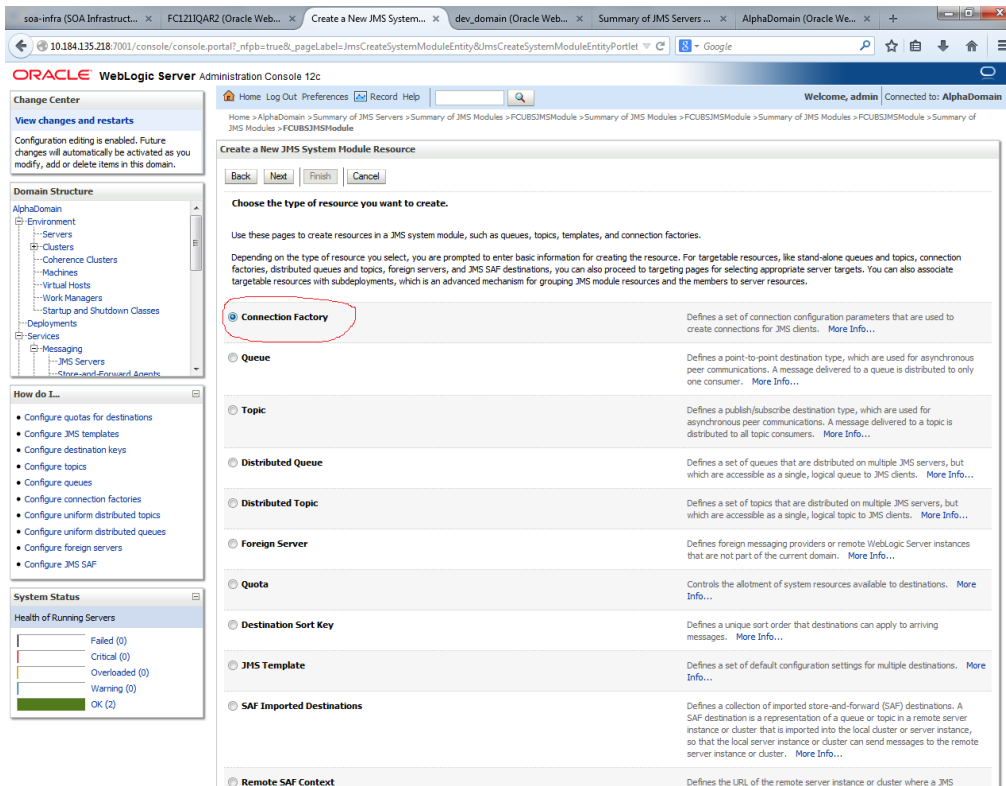
Name	Type	JNDI Name	Subdeployment	Targets
There are no items to display				

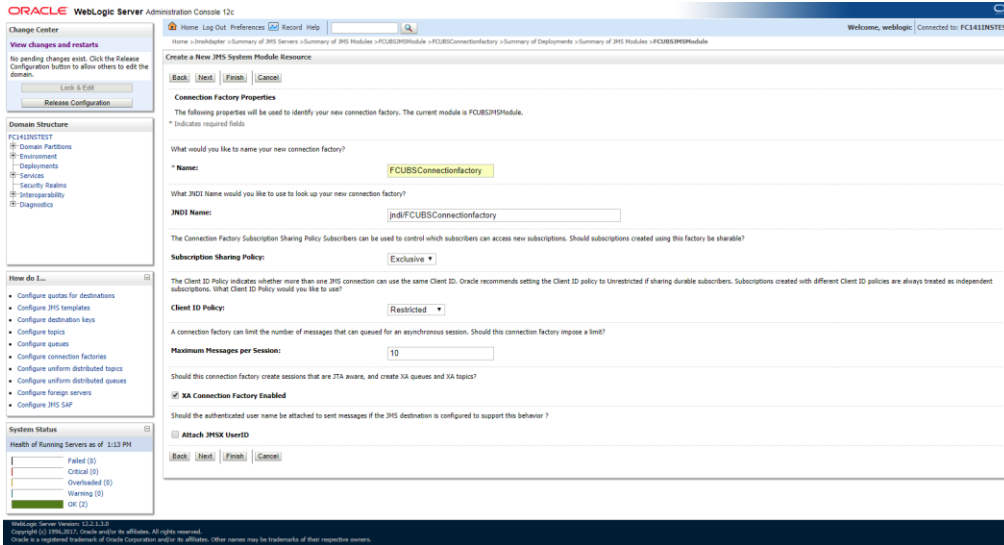
New Delete Showing 0 to 0 of 0 Previous Next

5. Go back to JMS Modules→FCUBSJMSModule→New

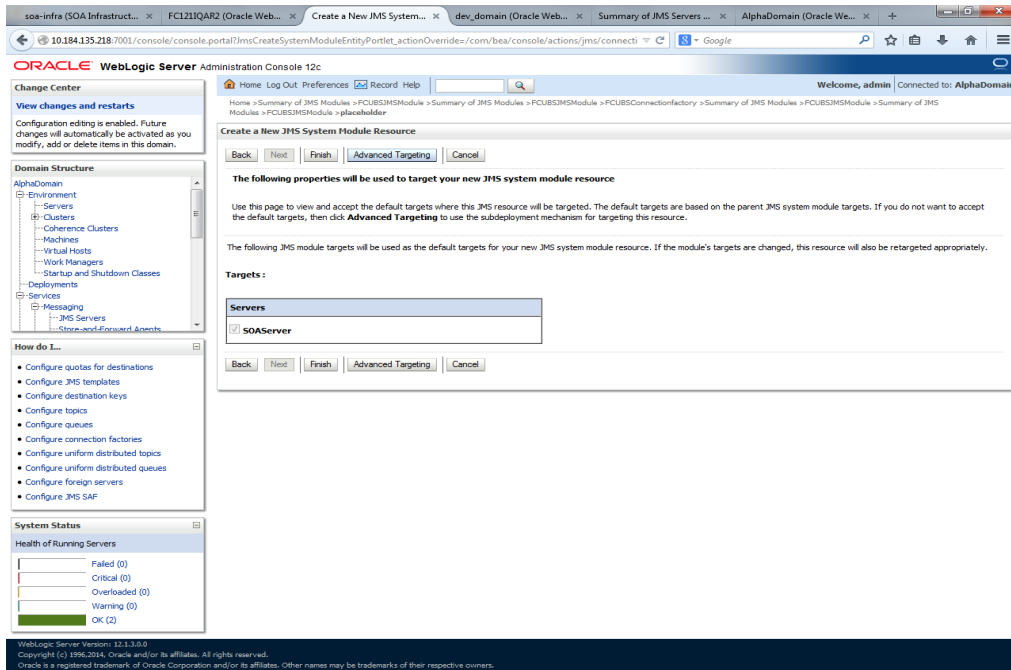


6. Click on Connection Factory→ next→Create the connection Factory with the below Names→Next





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



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ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...

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

System Status
Health of Running Servers

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

Create a New JMS System Module Resource
 Back Next Finish Cancel
 The following properties will be used to target your new JMS system module resource
 Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.
 Select the subdeployment you want to use. If you select (none), no targeting will occur.
 Subdeployments: (none) **Create a New Subdeployment**
 What targets do you want to assign to this subdeployment?
 Targets:
 Back Next Finish Cancel

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

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ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...

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

System Status
Health of Running Servers

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

Create a New Subdeployment
 OK Cancel
 Subdeployment Properties
 The following properties will be used to identify your new subdeployment.
 Subdeployment Name: FCUBS
 OK Cancel

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

ORACLE WebLogic Server Administration Console 12c

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

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

Create a New JMS System Module Resource

Back Next Finish Cancel

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

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

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

Subdeployments: FCUBS Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets:

Servers

- SOAServer

JMS Servers

- BPHJMServer
- FCUBSJMServer
- SOAJMServer
- UMSJMServer_auto_2

Back Next Finish Cancel

Change Center

View changes and restarts

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

Activate Changes

Undo All Changes

Domain Structure

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

How do I...

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

System Status

Health of Running Servers

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

soa-infra (SOA Instruct... x FC121IAR2 (Oracle Web... x Settings for FCUBSJMSM... x dev_domain (Oracle Web... x Summary of JMS Servers... x AlphaDomain (Oracle We... x +

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ORACLE WebLogic Server Administration Console 12c

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

Home > 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/fcubjmsmodule-jms.xml The name of the JMS module descriptor file. [More Info...](#)

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

[Customize this table](#)

Summary of Resources

New Delete Showing 1 to 1 of 1 Previous | Next

<input type="checkbox"/>	Name	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	FCUBSConnectionFactory	Connection Factory	jndi/FCUBSConnectionFactory	FCUBS	FCUBSJMServer

New Delete Showing 1 to 1 of 1 Previous | Next

Change Center

View changes and restarts

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

Domain Structure

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

How do I...

No task help found.

System Status

Health of Running Servers

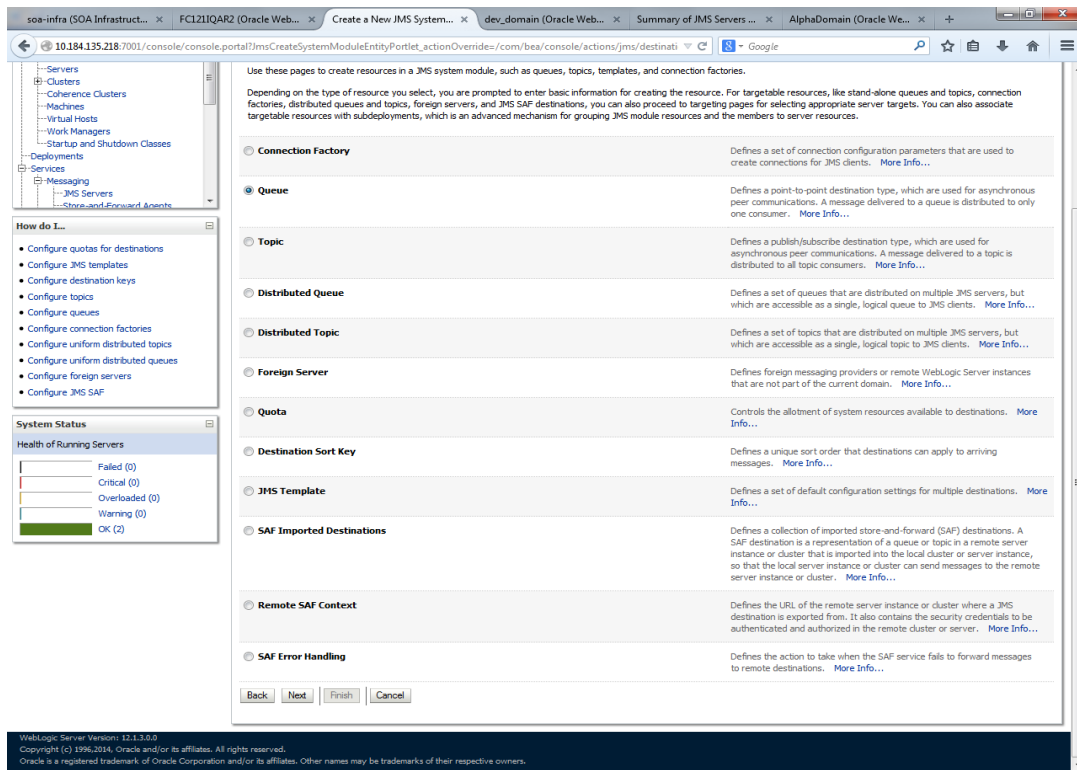
- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

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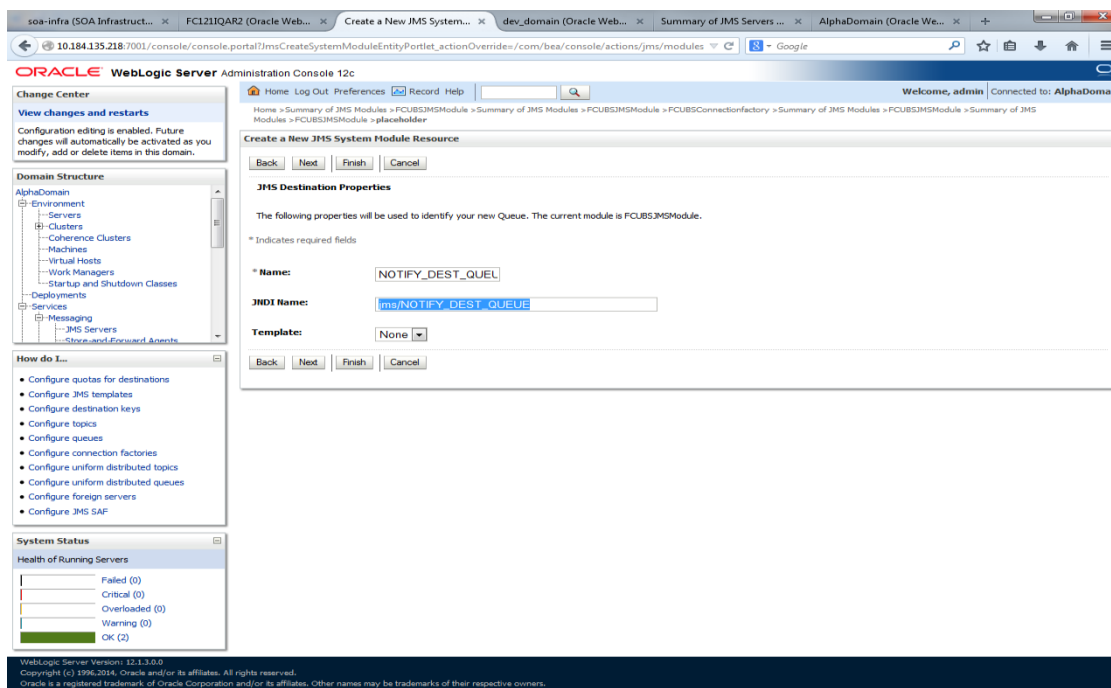
The screenshot shows the Oracle WebLogic Server Administration Console 12c interface. The main content area displays the configuration for the FCUBSJMSModule. The 'Summary of Resources' table is as follows:

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

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



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



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

10.184.135.218:7001/console/console.portal

ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...?

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

System Status
Health of Running Servers

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

Create a New JMS System Module Resource
 Back Next Finish Cancel
 The following properties will be used to target your new JMS system module resource
 Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.
 Select the subdeployment you want to use. If you select (none), no targeting will occur.
 Subdeployments: FCUBS Create a New Subdeployment
 What targets do you want to assign to this subdeployment?
 Targets:
 JMS Servers
 BPHJMServer
 FCUBSJMServer
 SOAJMServer
 JMSJMServer_auto_2
 Back Next Finish Cancel

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ORACLE WebLogic Server Administration Console 12c

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

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

Domain Structure
AlphaDomain
- Environment
- Servers
- Clusters
- Coherence Clusters
- Machines
- Virtual Hosts
- Work Managers
- 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 quotas, distributed destinations, foreign servers, and store-and-forward parameters.
 Customize this table
 Summary of Resources
 New Delete Showing 1 to 2 of 2 Previous | Next

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

 New Delete Showing 1 to 2 of 2 Previous | Next

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

Application Name	Status	Health	Type	Server	Port
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSAppUI (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
<input checked="" type="checkbox"/> JmsAdapter	Active	OK	Resource Adapter	SOAServer	323
LdapAdapter	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-weapps	Active	OK	Enterprise Application	SOAServer	360

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ORACLE WebLogic Server Administration Console 12c

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

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

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

How do I...
Configure outbound connection pool properties

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

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Create a New Outbound Connection

Back Next Finish Cancel

JNDI name for Outbound Connection Instance

Enter the JNDI name that you want to use to obtain the new connection instance

* Indicates required fields

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

* JNDI Name: eis/Queue/Notif

Back Next Finish Cancel

soa-infra (SOA Instruct... x FC1211QAR2 (Oracle Web... x Settings for JmsAdapter - ... x dev_domain (Oracle Web... x Summary of JMS Servers ... x AlphaDomain (Oracle We... x +

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

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
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How do I...
Configure outbound connection pool properties

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

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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/flor/anomq/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jbossmq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiab2BQueueCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jms/aiabErrorTopicCF	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/jramat/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/Queue/Notif	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/summq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/nbjms/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/nbjms/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/nbjmsDirect/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/nbjmsDirect/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wespheremq/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNLocalTxTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaDurableTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/EDNxaTopic	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Queue	oracle.tp.adapter.jms.IJmsConnectionFactory
eis/wls/Topic	oracle.tp.adapter.jms.IJmsConnectionFactory

New Delete Showing 1 to 1 of 1 Previous | Next

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for oracle.tip.adapter.jms.DmsConnectionFactory". It has tabs for General, Properties, Transaction, Authentication, Connection Pool, and Logging. The "Properties" tab is active, displaying a table of configuration properties. The "ConnectionFactoryLocation" property is highlighted, and its value is being edited to "jndi/FCUBSConnectionFactory".

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

The screenshot shows the Oracle WebLogic Server Administration Console after the configuration update. The main content area displays a "Messages" section with three green checkmarks: "All changes have been activated. No restarts are necessary.", "Deployment plan has been successfully updated.", and "Remember to update your deployment to reflect the new plan when you are finished with your changes." Below the messages, the "Settings for oracle.tip.adapter.jms.DmsConnectionFactory" page is shown, with the "ConnectionFactoryLocation" property now set to "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

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

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

Update Application Assistant

Back Next Finish Cancel

Locate new deployment files

You have elected to update the JmsAdapter application.

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

Deployment plan path: /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/Plan1.xml [Change Path](#)

Redeploy this application using the following deployment files:

Source path: /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/JmsAdapter.rar [Change Path](#)

Deployment plan path: /scratch/app/oracle/product/fmw/12c3/soa/soa/connectors/Plan1.xml [Change Path](#)

Back Next Finish Cancel

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of Deployments" and contains a table of applications. The table has columns for Name, State, Health, Type, Targets, and Deployment Order. The applications listed include AqAdapter, b2bui, BamComposer, BamCQService, BamServer, BPMComposer, coherence-transaction-rar, CoherenceAdapter, DbAdapter, DefaultToDoTaskFlow, and JMS Application. The table also shows the deployment order for each application.

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

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

1.2.7 Configuring FTP Adapter

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for FtpAdapter" and has several tabs: Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing, Monitoring, and Notes. Under the "Configuration" tab, there are sub-tabs: General, Properties, Outbound Connection Pools, Admin Objects, Workload, and Instrumentation. The "Outbound Connection Pools" sub-tab is active, showing a table of configuration groups and instances. The table has two columns: "Groups and Instances" and "Connection Factory Interface".

Groups and Instances	Connection Factory Interface
javax.resource.cd.ConnectionFactory	javax.resource.cd.ConnectionFactory
eis/ftp/CoherenceHftpAdapter	javax.resource.cd.ConnectionFactory
eis/ftp/FtpAdapter	javax.resource.cd.ConnectionFactory
eis/ftp/FtpAdapterLcl	javax.resource.cd.ConnectionFactory
eis/ftp/FtpAdapter_VMS	javax.resource.cd.ConnectionFactory
eis/ftp/FtpAdapter	javax.resource.cd.ConnectionFactory
eis/ftp/HftpAdapter	javax.resource.cd.ConnectionFactory
eis/ftp/HftpAdapterDB2	javax.resource.cd.ConnectionFactory
eis/ftp/HftpAdapterMSSQL	javax.resource.cd.ConnectionFactory
eis/ftp/LocalTransactionFtpAdapter	javax.resource.cd.ConnectionFactory

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

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

1.2.7.1 BIP Interactive reports configuration

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

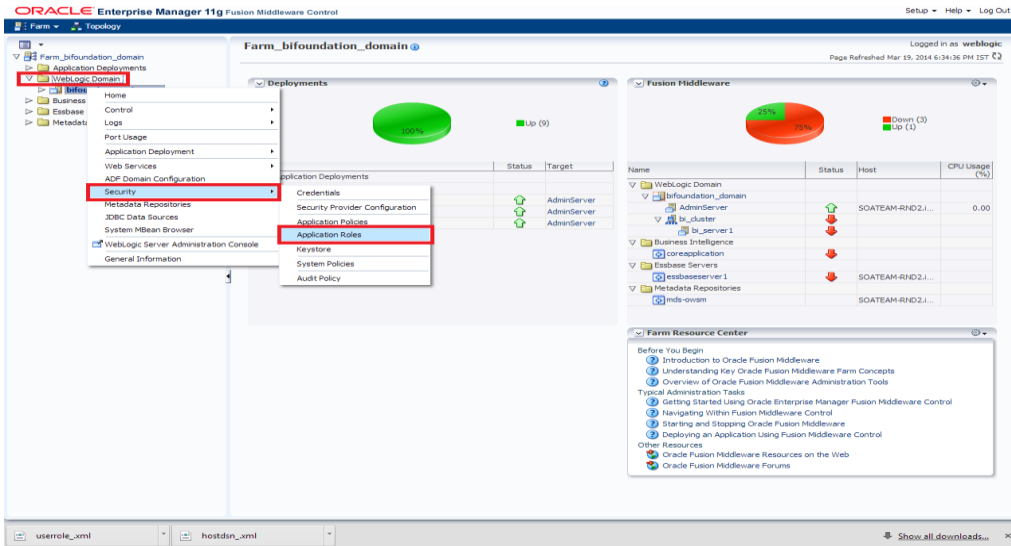
- 1) Login to the BIP domain console, `http/s:<hostname>:<port>/console`.
- 2) Follow the step 1.2.1 to add the “FCJCustomProvider”.

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Settings for myrealm' configuration, with the 'Users and Groups' tab selected. The 'Users' sub-tab is active, showing a table of users. The table has columns for Name, Description, and Provider. The 'Security Realms' menu item in the left sidebar is highlighted with a red box. The 'Users' tab in the sub-menu is also highlighted with a red box.

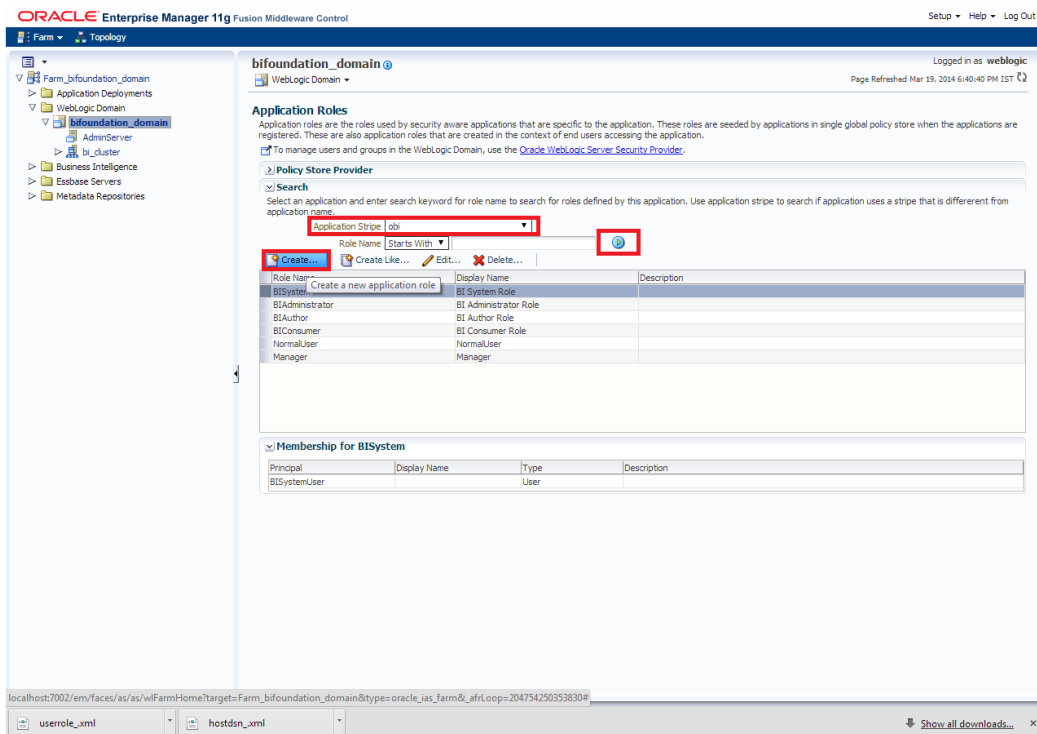
Name	Description	Provider
000ANT1	Default Admin User 1	FCJCustomProvider
1111IRM_3	Siveta	FCJCustomProvider
1111IRM_4	RM	FCJCustomProvider
112233	Default Admin User 10	FCJCustomProvider
121212	Default Admin User 10	FCJCustomProvider
123456	SANKER GS	FCJCustomProvider
141414	Default Admin User 10	FCJCustomProvider
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



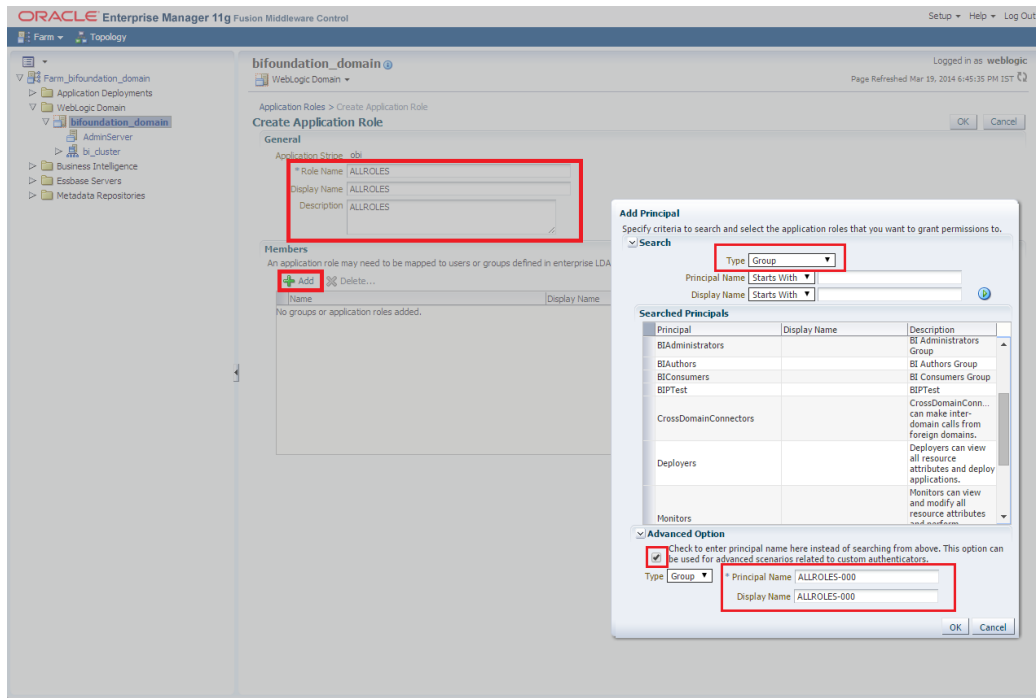
4) After navigating to next screen as in below screenshot,

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

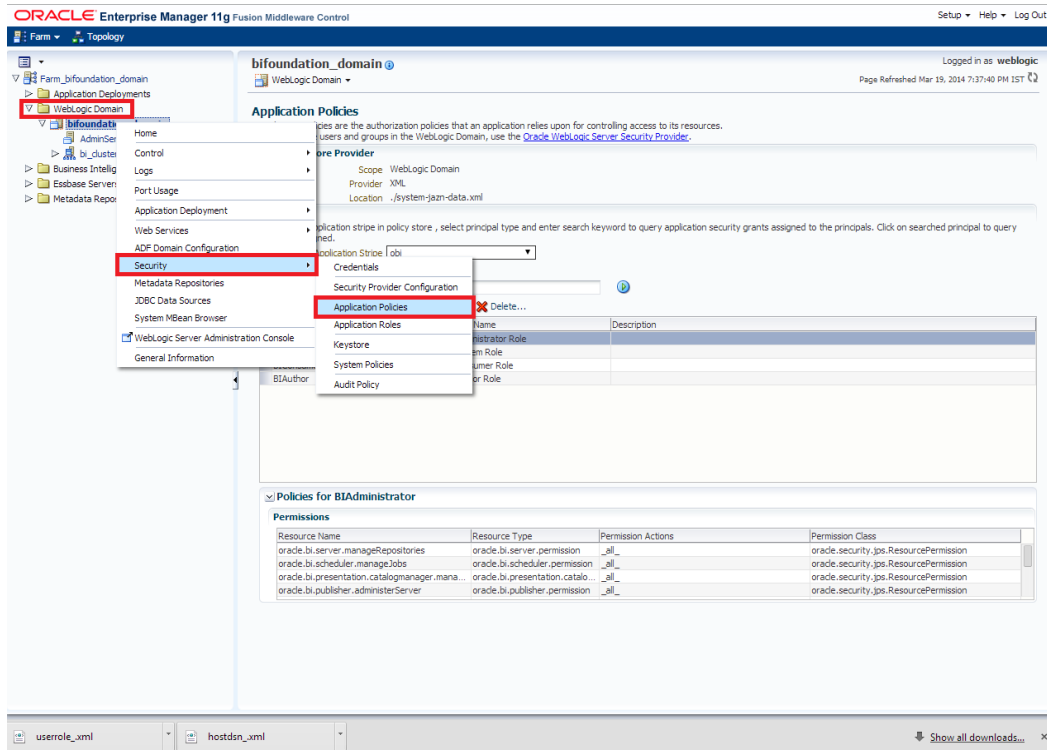


5) After navigating to next screen as in below screenshot,

- 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.

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-j2m-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:
 Principal Type:
 Name: Starts With:

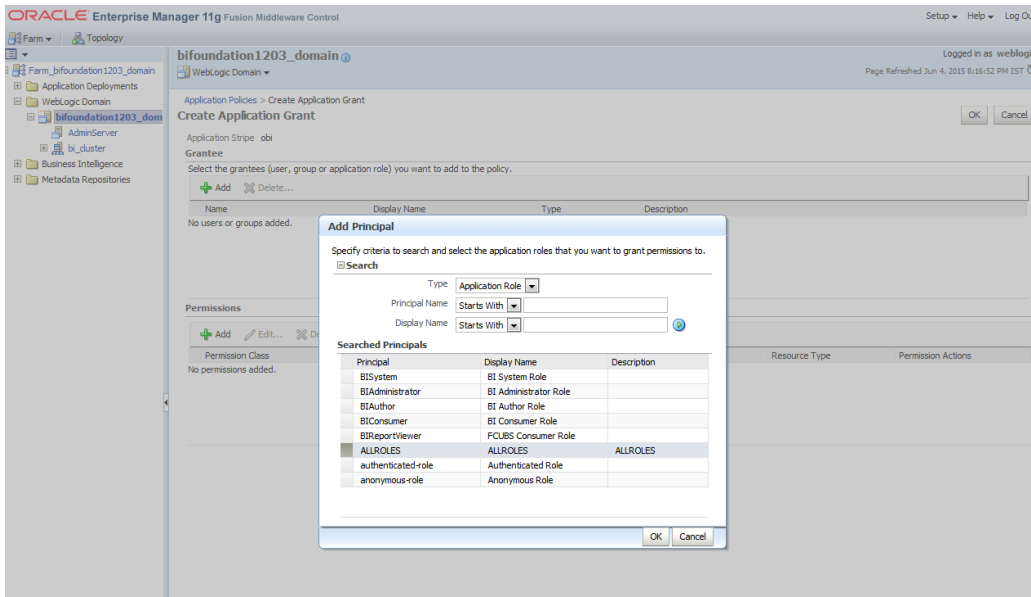
Principal	Display Name	Description
BIAdministrator	BI Administrator Role	
BIUser	BI System Role	
BIConsumer	BI Consumer Role	
BIAdmin	BI Admin Role	
BIReportViewer	FCUBI Consumer Role	

Policies for BIConsumer

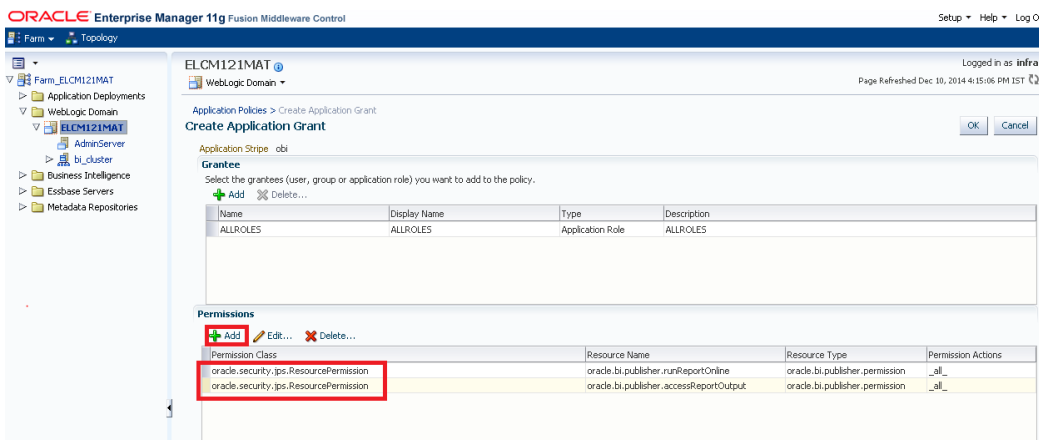
Permissions

Resource Name	Resource Type	Permission Actions	Permission Class
Explore	rdt_fc_persp	dc_getobjective	oracle.security.jps.ResourcePermission
MyGance	rdt_fc_persp	dc_getobjective	oracle.security.jps.ResourcePermission
all	rdt_batch	batch admin	oracle.security.jps.ResourcePermission
el	rdt_ls	choice_editor	oracle.security.jps.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.

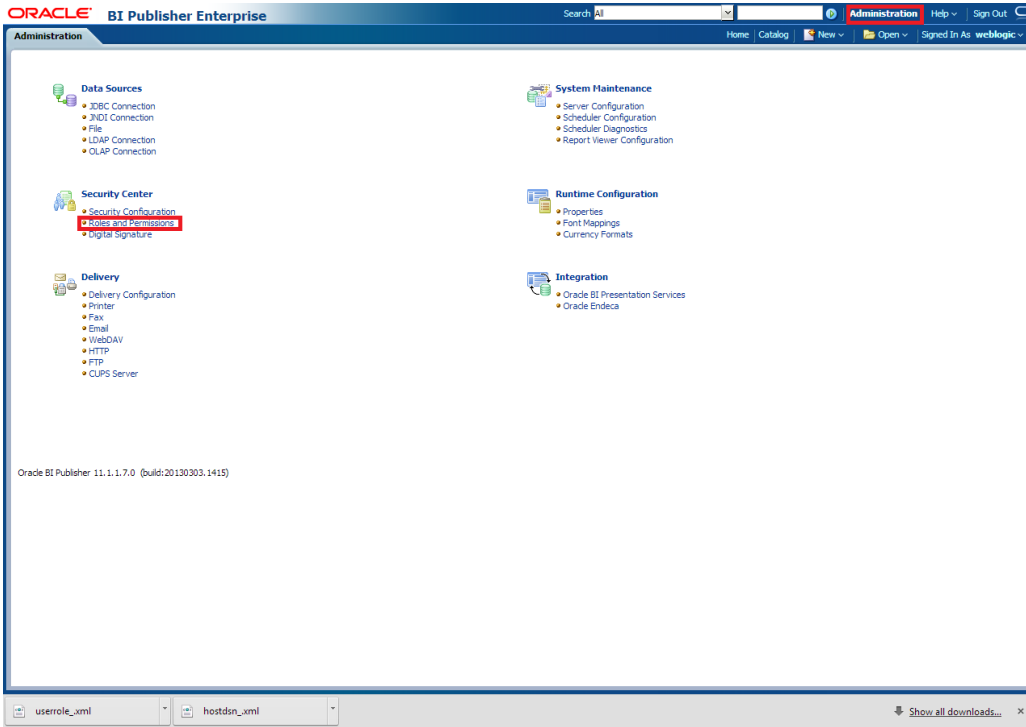


- Click Add button under Permissions and add the two permissions one by one as mentioned below.
 - oracle.bi.publisher.runReportOnline
 - oracle.bi.publisher.accessReportOutput

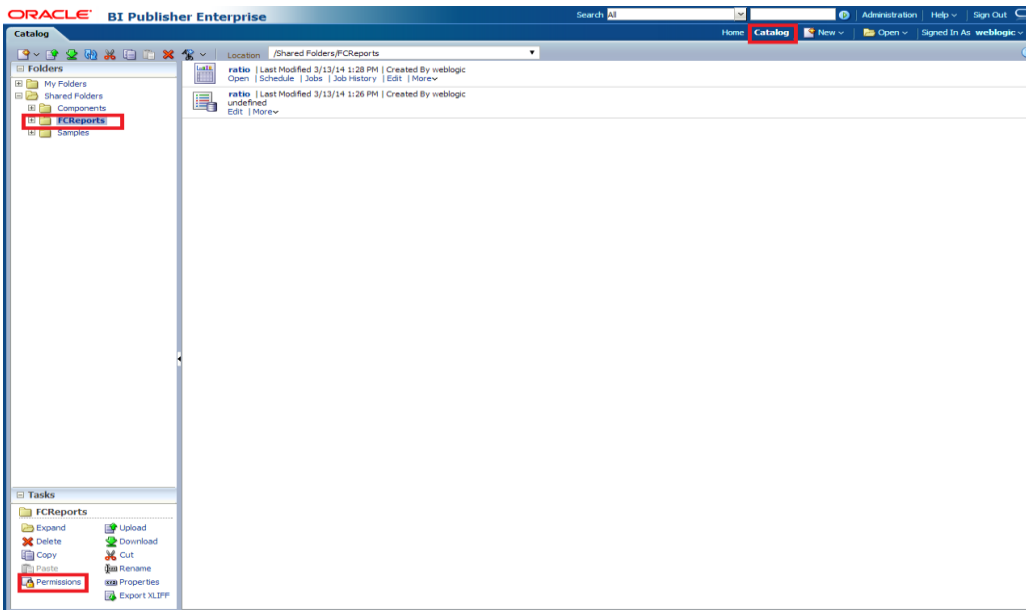


- 9) After getting information message like “A security added successfully”,
- Login into the BIPublisher , [http/s:<hostname>:<port>/xmlpserver](http://s:<hostname>:<port>/xmlpserver)
 - Click on the Administration .

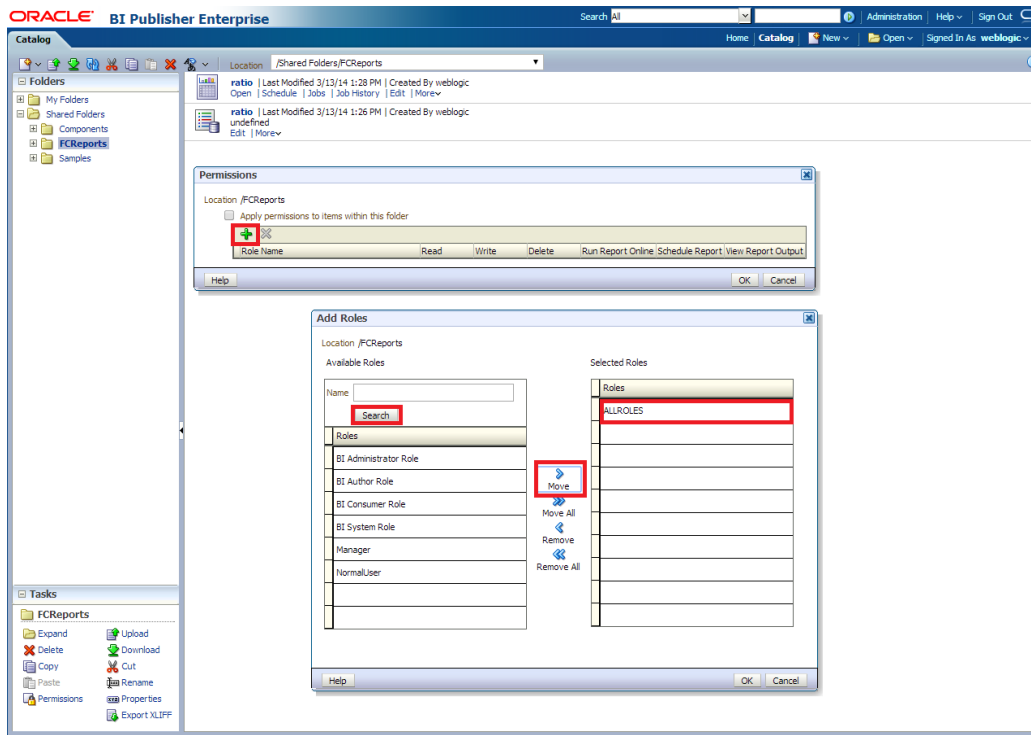
- Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart the servers.



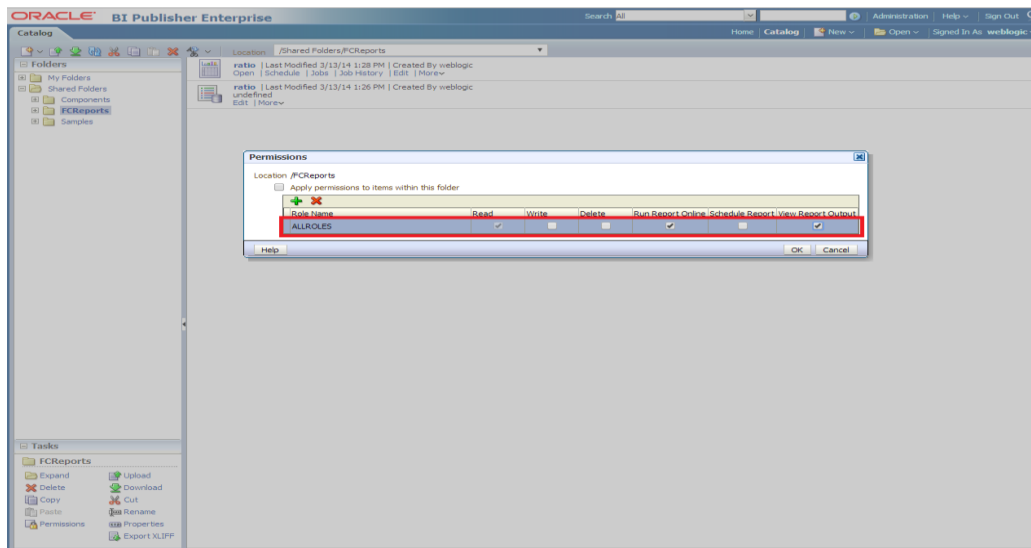
10) Then click on the Catalog , then on the folder that has been created , and then on permissions



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



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



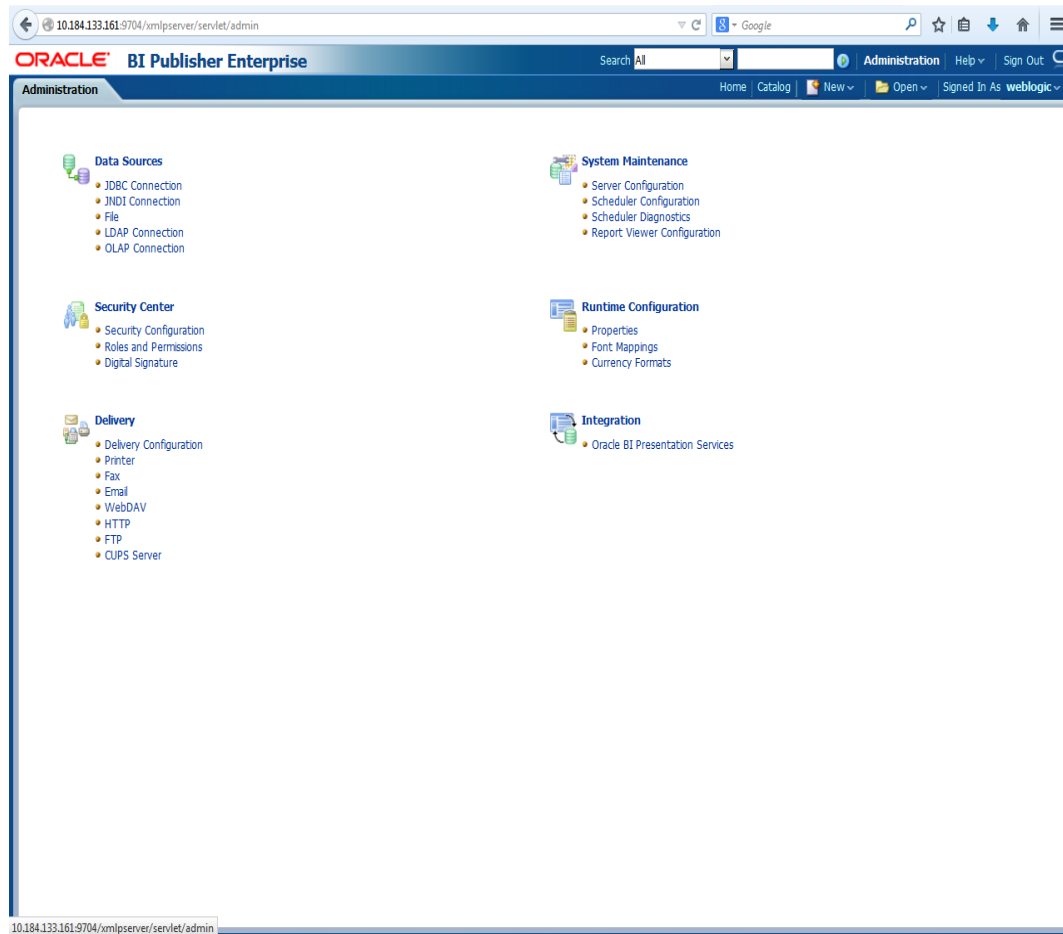
Now the reports in the folder will be accessed accordingly based on the roles.

Note:

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

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

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



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

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

10.184.133.161:9704/xmlsoa/ser/vlet/admin/datasource/connectionhome?voice=idbc&stkn=5ec2d6c614e67518204

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

Administration > JDBC

Data Sources

JDBC | JNDI | File | LDAP | OLAP

Add Data Source | Previous | 1-10 of 16 | Next 6

Data Source Name	Connection String	Delete
dema	jdbc:oracle:thin:@10.184.149.52:1521:SOADB	
FCI202UBS	jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW	
FCI21DEV	jdbc:oracle:thin:@10.184.132.144:1521:KD12NEW	
FCBIP	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCOR121DEV	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCOB1211UT	jdbc:oracle:thin:@10.184.154.149:1521:ORFC12C	
FCUBS1203	jdbc:oracle:thin:@10.184.132.137:1521:FCPAT CH2	
FCUBS121	jdbc:oracle:thin:@wlf00aew:1521:ORFC12C	
FCUBS12C	jdbc:oracle:thin:@10.184.132.172:1521:FCUBS12C	
fcubsewf1202	jdbc:oracle:thin:@10.184.149.52:1521:SOADB	

Add Data Source | Previous | 1-10 of 16 | Next 6

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

ORACLE BI Publisher Enterprise

Administration > JDBC > Add Data Source

Add Data Source

General

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

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

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

Use Proxy Authentication

Backup Data Source

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

Use Backup Data Source
 Connection String:
 Username:
 Password:

16. Add the fcubs roles to allowed Roles under security

ORACLE BI Publisher Enterprise

Administration > Security > Add Data Source

Add Data Source

Security

Allow Guest Access

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

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

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

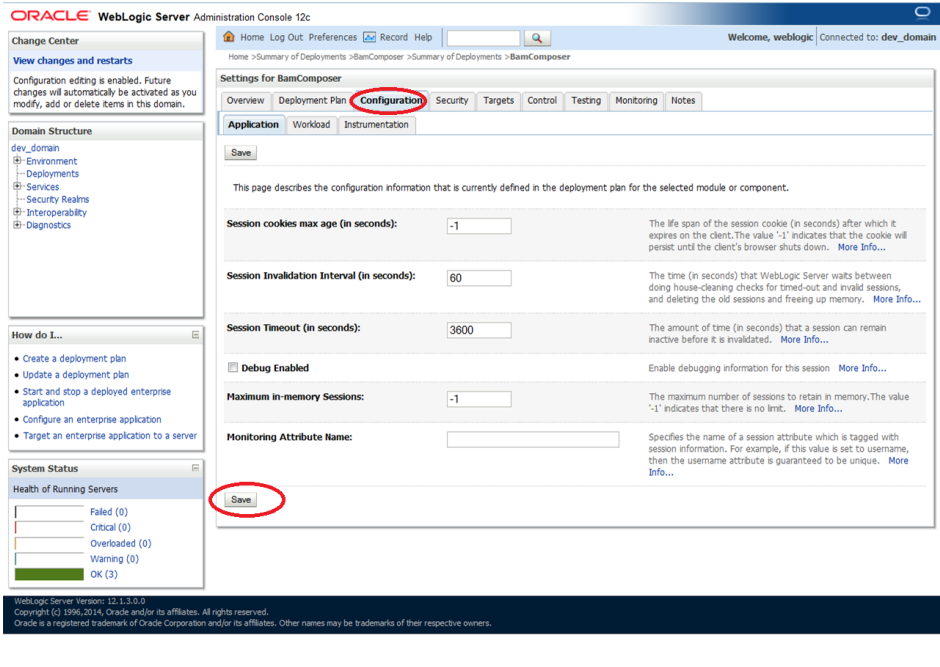
1.2.8 **BAM Report Configuration settings**

1. The Following set of instructions can be followed if the BPEL need to be configured with BAM reports
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

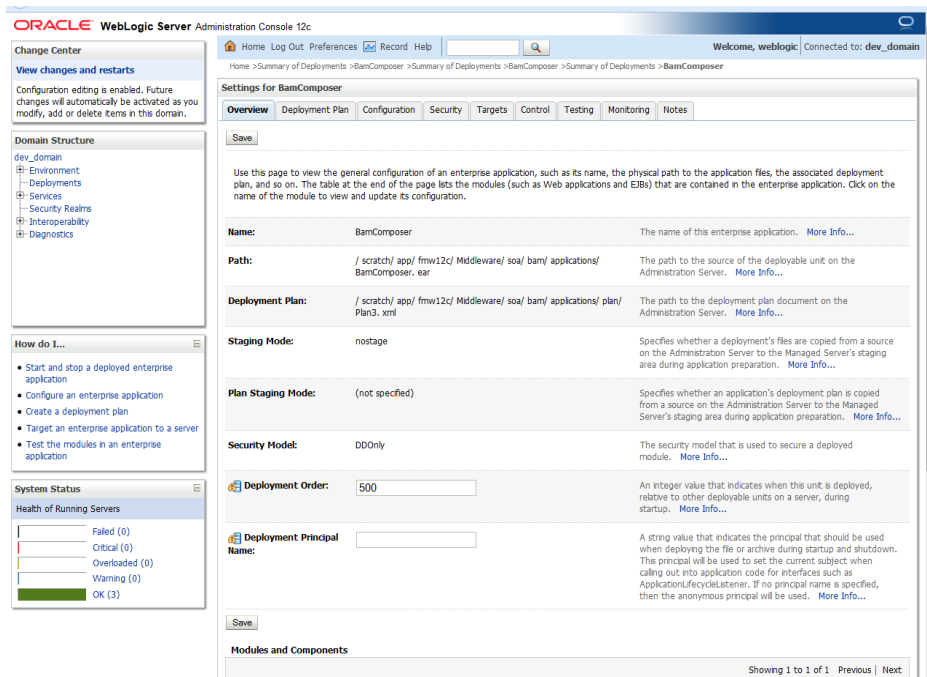
The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Summary of Deployments' and contains a table of installed applications. The table has columns for Name, State, Health, Type, Targets, and Deployment Order. The 'BamComposer' application is highlighted with a red circle. The table also includes control buttons like 'Install', 'Update', 'Delete', 'Start', and 'Stop' at the top.

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

4. click on Configuration Configuration → Save



5. Click on Overview → check the deployment plan location



6. Add variable and variable assignment as below to the Plan.xml in

`<module-name>BamComposerWeb.war</module-name>` and for reference please find plan.xml file.

```
<variable>
  <name>oracle.adf.view.rich.security.FRAME_BUSTING</name>
```

```

<value>never</value>
</variable>
<module-descriptor external="true">
  <root-element>web-app</root-element>
  <uri>WEB-INF/web.xml</uri>
  <variable-assignment>
    <name>oracle.adf.view.rich.security.FRAME_BUSTING</name>
    <xpath>/web-app/context-param/[param-
name="oracle.adf.view.rich.security.FRAME_BUSTING"]/param-value</xpath>
    <origin>planbased</origin>
  </variable-assignment> </module-descriptor>

```



Plan3.xml

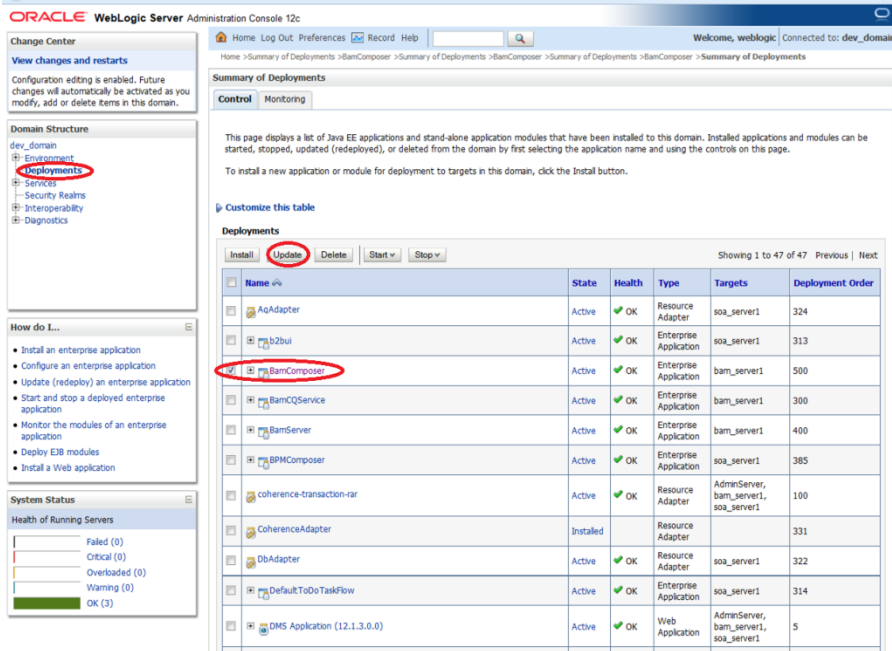
7. Stop the BAM composer application in console.

The screenshot shows the Oracle SOA console interface. On the left, there are navigation panels for 'Services', 'How do I...', and 'System Status'. The main area displays a 'Deployments' table with columns for Name, Status, Health, Type, Targets, and Deployment Order. The 'BAMComposer' application is highlighted with a red circle. A context menu is open over it, with 'Force Stop Now' selected. Other applications listed include AqAdapter, h2bul, BamCQService, BamServer, BPMComposer, coherence-transaction-rar, CoherenceAdapter, DbAdapter, DefaultToDoTaskFlow, DMS Application (12.1.3.0.0), em, FCUBSAppJIT (12.1.0.0.0), FCUBSAppSoaEmb (12.1.0.0.0), FileAdapter, frevo, and PmAdapter.

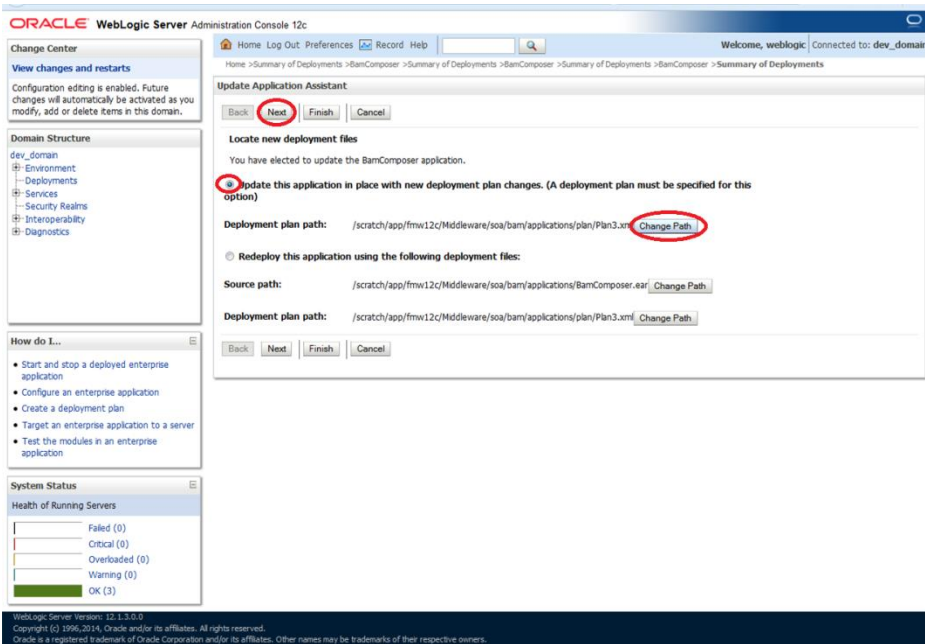
Name	Status	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
h2bul	Active	OK	Enterprise Application	soa_server1	313
BAMComposer	Active	OK	Enterprise Application	bam_server1	500
BamCQService	Active	OK	Enterprise Application	bam_server1	300
BamServer	Active	OK	Enterprise Application	bam_server1	400
BPMComposer	Active	OK	Enterprise Application	soa_server1	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, bam_server1, soa_server1	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	soa_server1	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	soa_server1	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, bam_server1, soa_server1	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSAppJIT (12.1.0.0.0)	Active	Warning	Enterprise Application	soa_server1	600
FCUBSAppSoaEmb (12.1.0.0.0)	Prepared	OK	Enterprise Application	soa_server1	601
FileAdapter	Active	OK	Resource Adapter	soa_server1	321
frevo	Installed		Enterprise Application		100
PmAdapter	Active	OK	Resource Adapter	soa_server1	325

8. Update the deployment plan.

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



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



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

Update Applicati... x WebLogic < Mid... BAM Composer result of page how to add BA... 16 Securing Ora... Introducing the ... Summary of Servers ...

ofs221222.7401/console/console.portal?AppApplicationUpdatePortlet_actionOverride=/com/bea/console/actions/app/update/selectPlan

ORACLE WebLogic Server Administration Console 12c

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

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

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

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 (3)

Update Application Assistant

Back Next Finish Cancel

Select a deployment plan.

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

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

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

Recently Used Paths:

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

Current Location: ofs221222 / scratch / app / fmw12c / Middleware / soa / bam / applications / plan

Plan.xml

Plan3.xml

Back Next Finish Cancel

WebLogic Server version 12.1.3.0.0
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3:01 PM 7/21/2015

ORACLE WebLogic Server Administration Console 12c

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

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

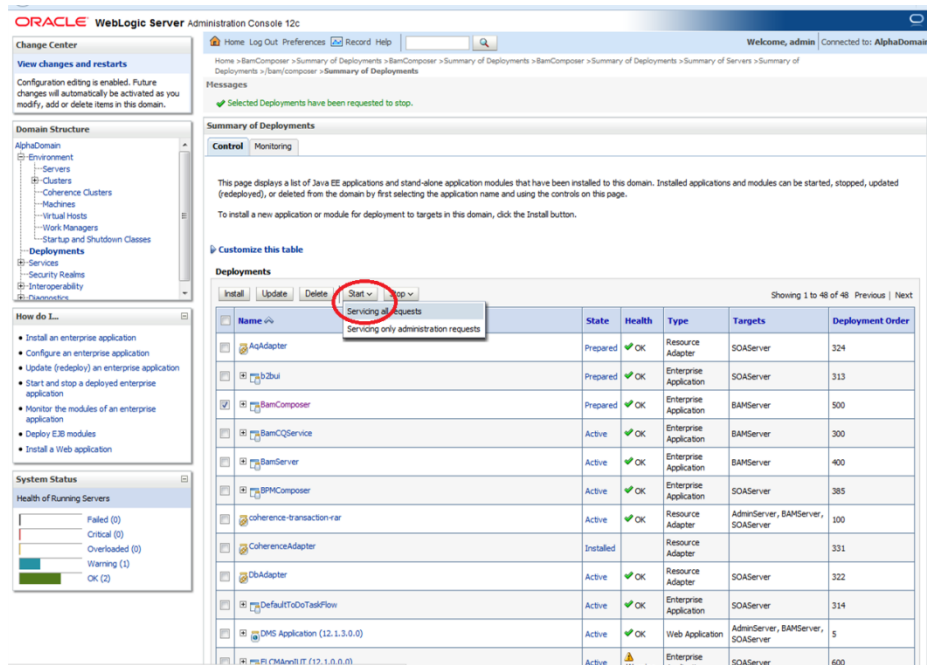
Deployments

Install Update Delete Start Stop

Showing 1 to 47 of 47 Previous Next

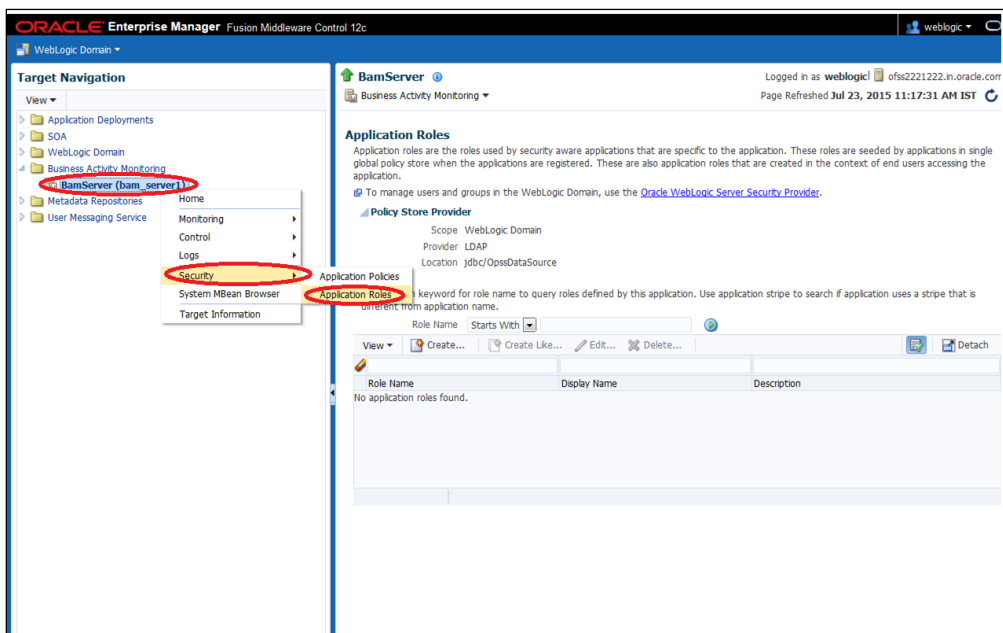
Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Active	OK	Resource Adapter	soa_server1	324
b2bul	Active	OK	Enterprise Application	soa_server1	313
BamComposer	Prepared	OK	Enterprise Application	bam_server1	500
BamCQService	Active	OK	Enterprise Application	bam_server1	300
BamServer	Active	OK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

12. Restart the BAM Composer application in the console

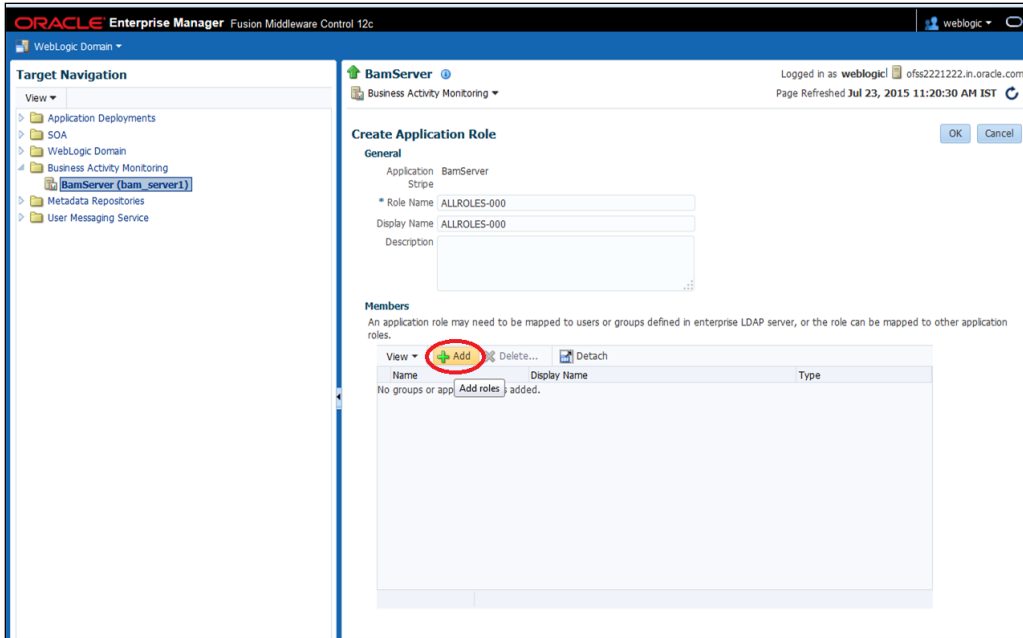


13. Login in to em console http://hostname:port/em

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

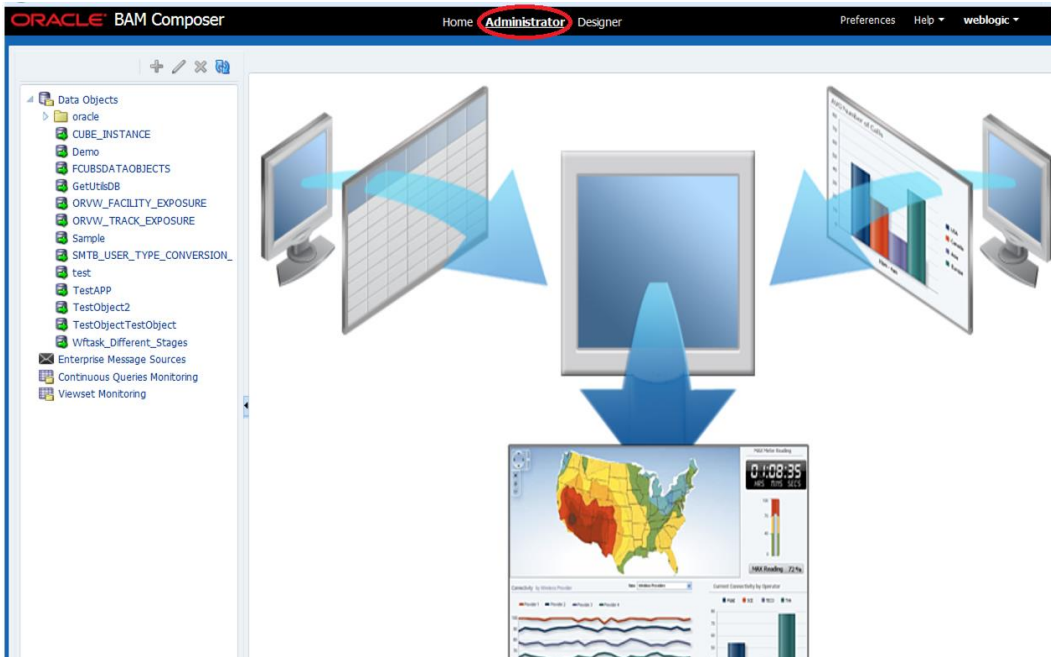


15. Click on Create → create application role with ALL ROLES-000 → Click on ADD button in the Members

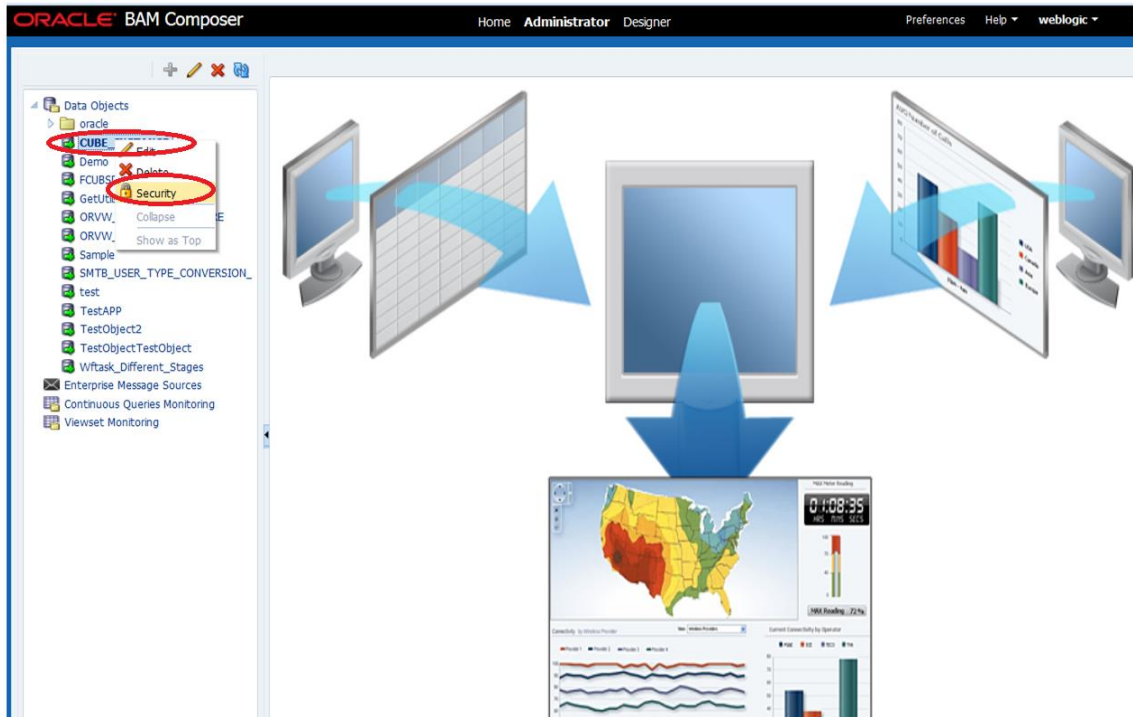


16. Select the Type as Group and add principle details be referring the below screen shot.

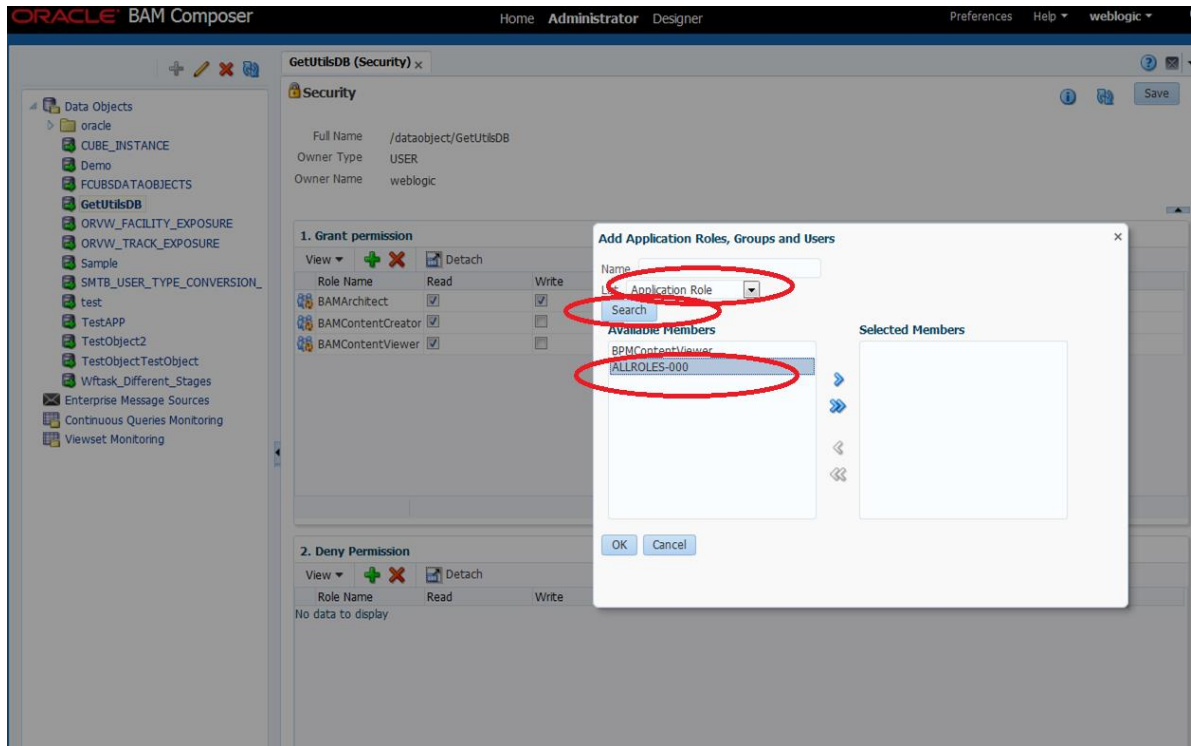
17. Login to BAM Composer → <http://hostname:port/bam/composer>--> Click on Administrator.



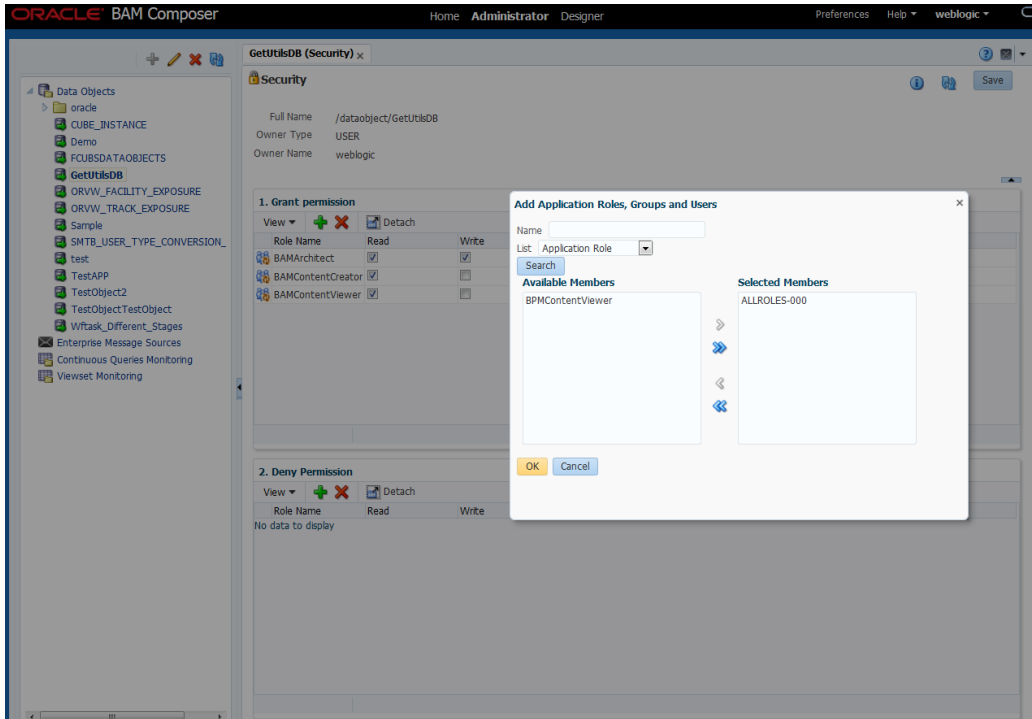
18. Go to Data Object→Right Click on CUBE_INSTANCE→Security



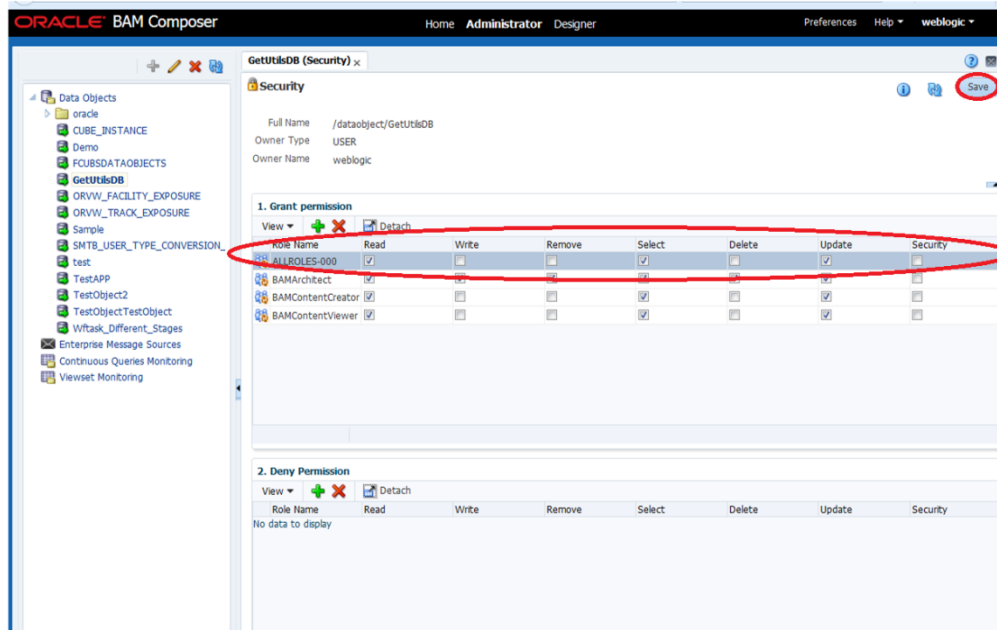
19. Click on Add button under Grant permission and search the list based on the Application Role



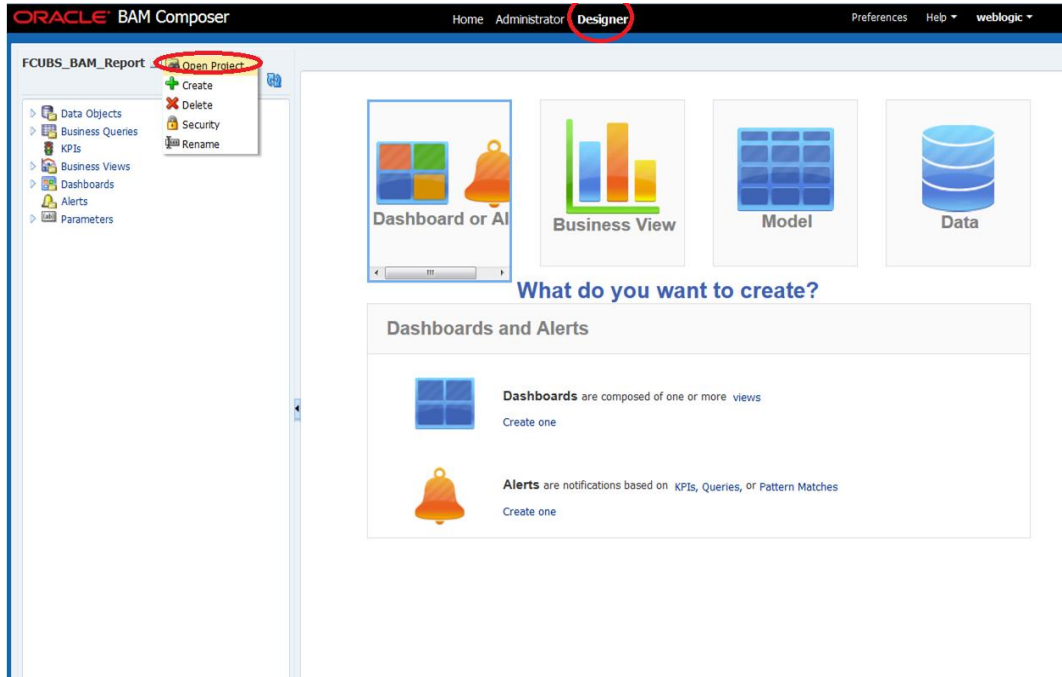
20. Move the ALLROLES-000 to Selected members.



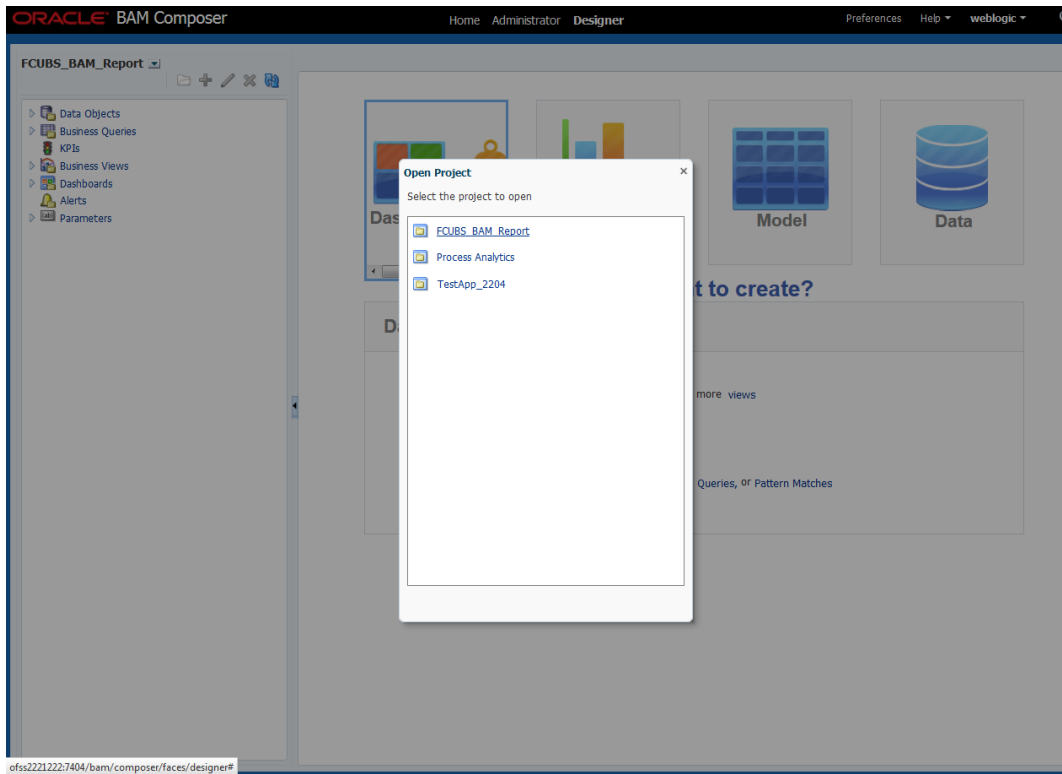
21. Click on read, select and Update check boxes → Click on Save.



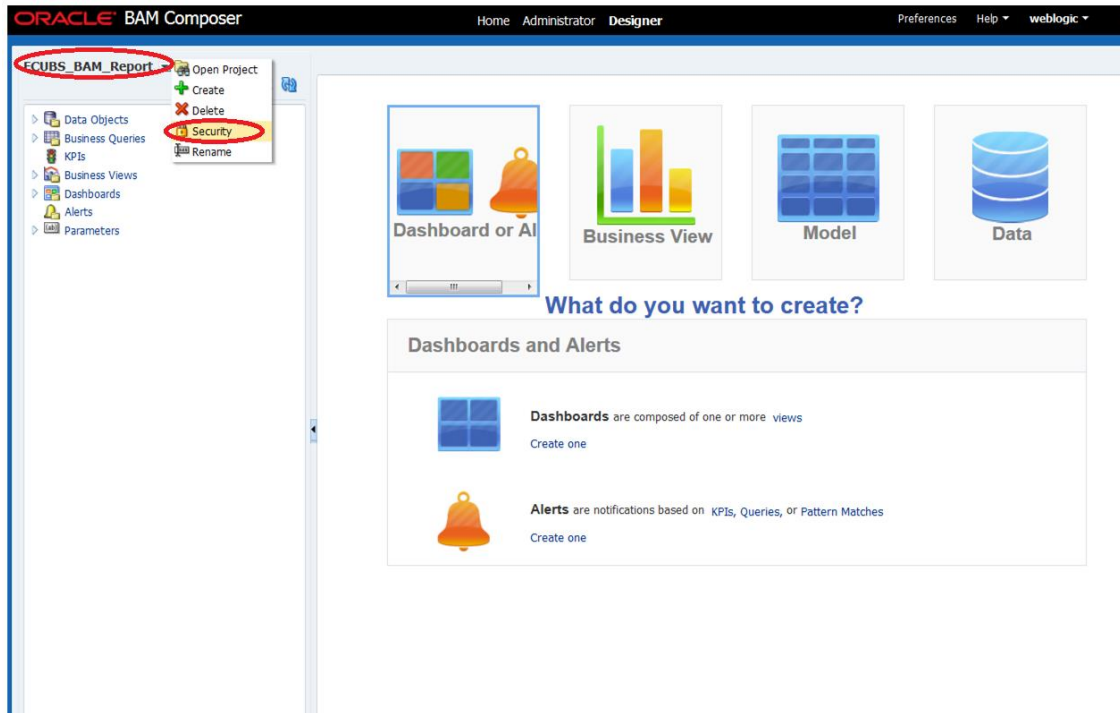
22. Follow the step 17 to 21 for other Data objects also.(cube_instance,wftask_different_stages, ORVW_TRACK_EXPOSURE, ORVW_FACILITY_EXPOSURE, GetUtilsDB, SMTB_USER_TYPE_CONVERSION_VIEW, FCUBSDATAOBJECTS).
23. Click on Designer →open Project



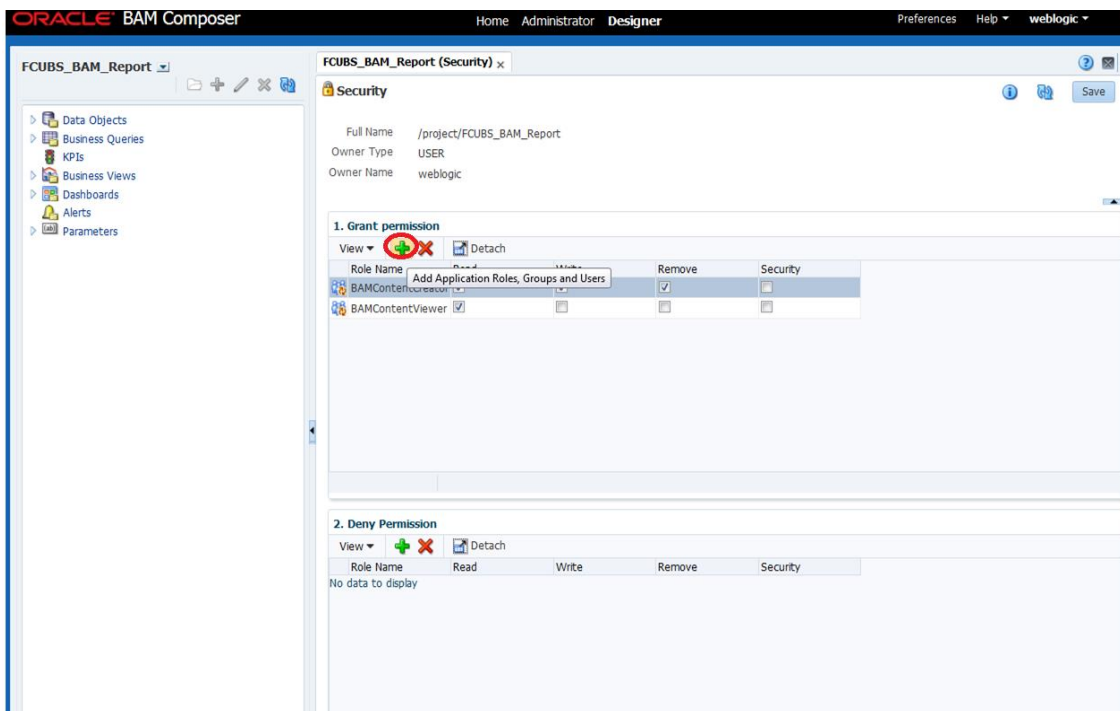
24. Click on FCUBS_BAM_report

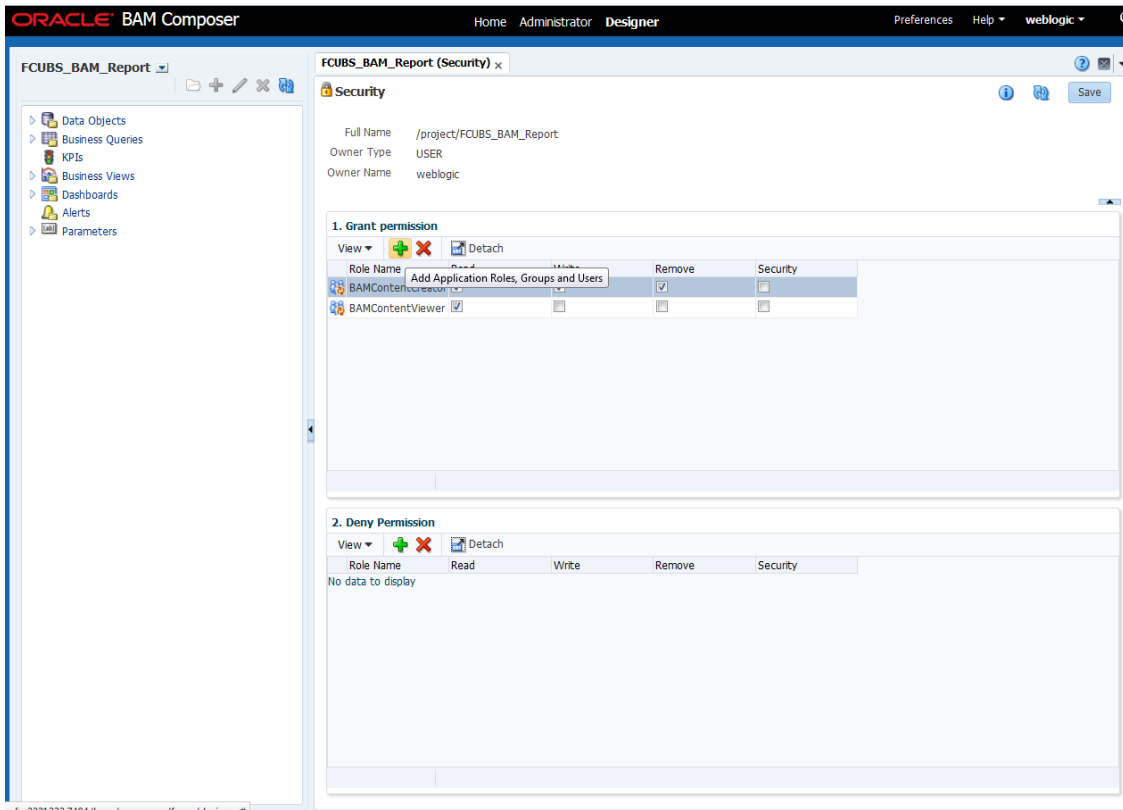


25. click on FCUBS_BAM_Report → Security

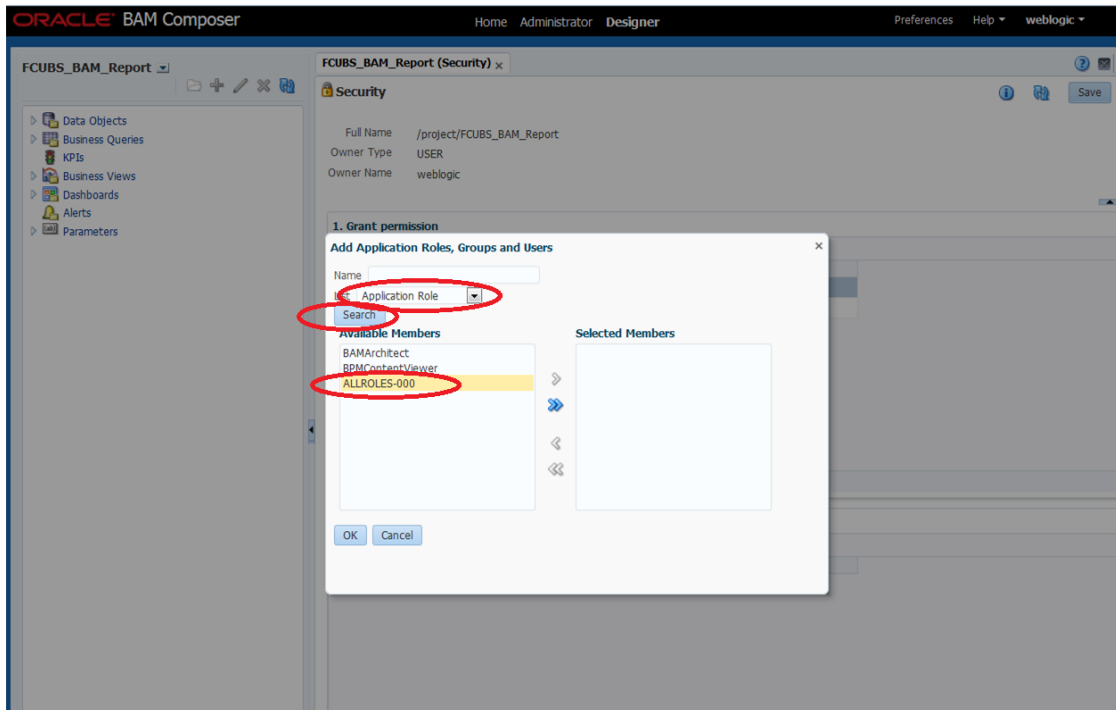


26. Click on ADD button Under Grant Permission.

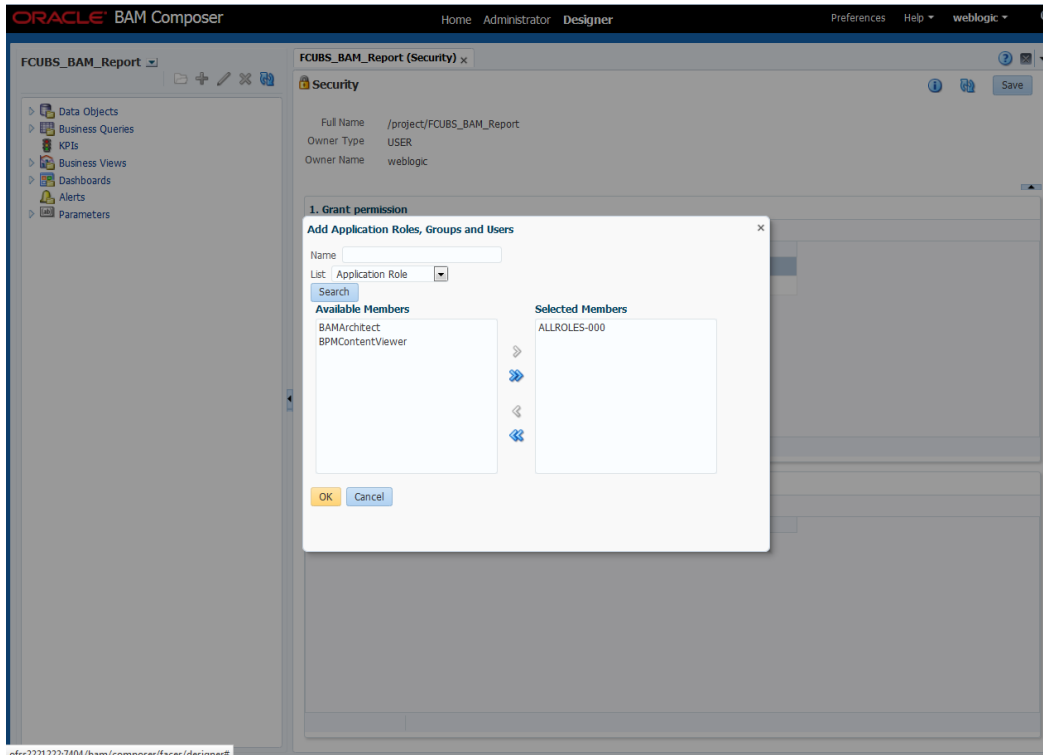




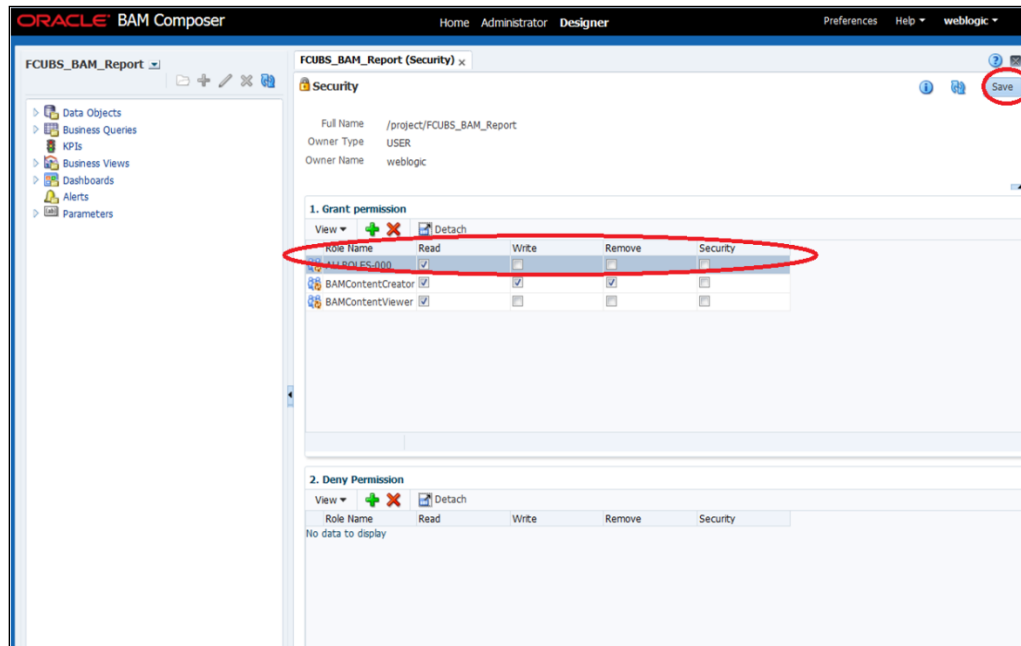
27. Search the List based on the Application Roles and Select the ALLROLES-000



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



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



1.2.9 IPM configuration to edit the document

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

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

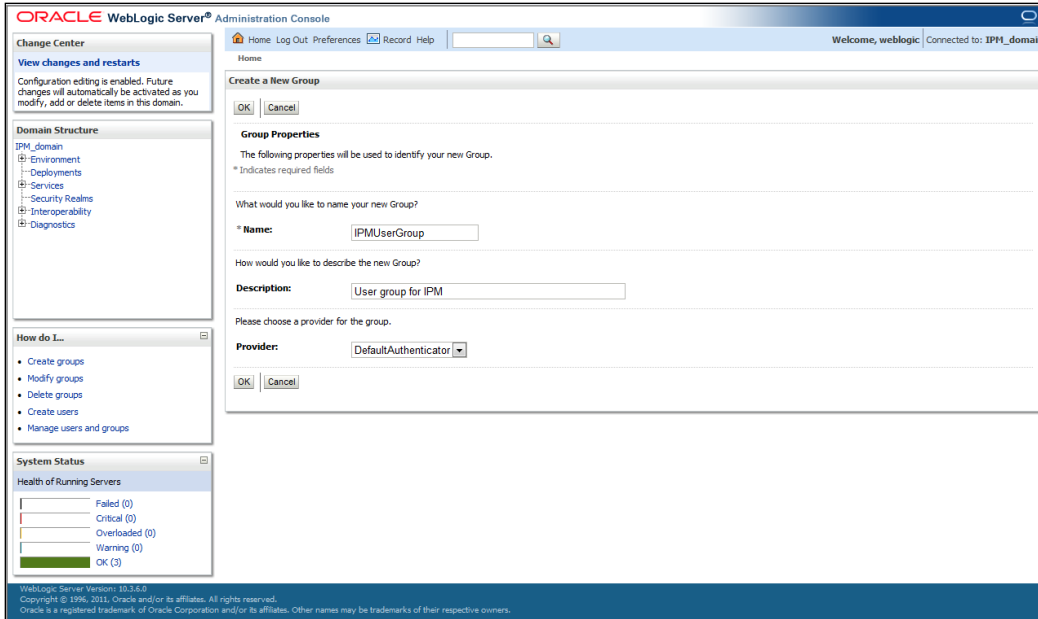
After adding, Navigate to security realms > myrealm > Users and Groups and check if the users from the schema are displayed in Users tab, and Roles from the schema are displayed under the Groups Tab.

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

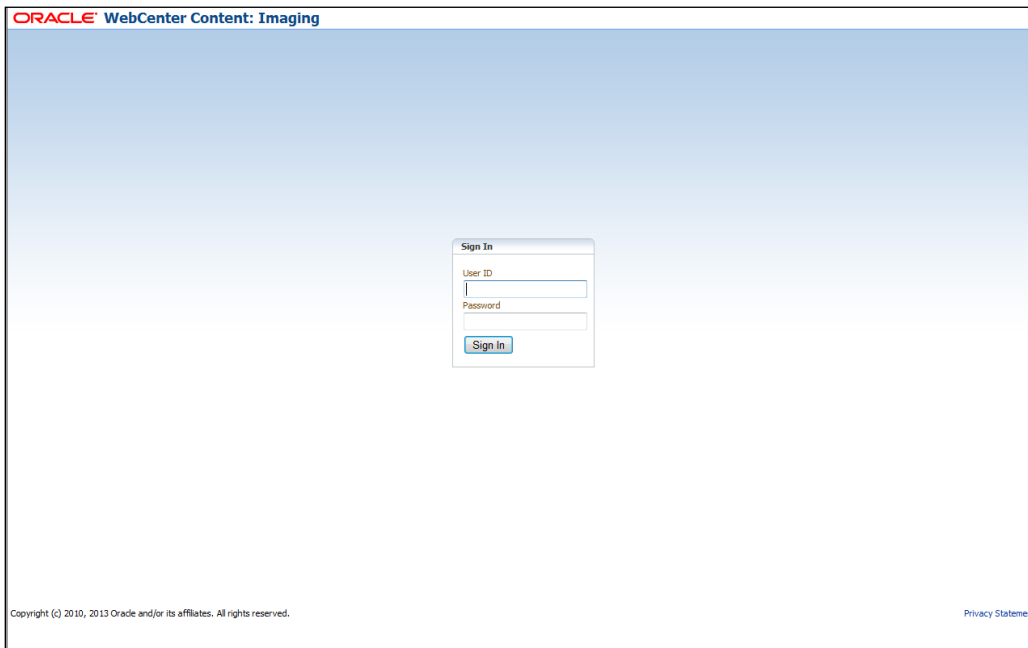
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled 'Settings for myrealm' and has tabs for 'Users' and 'Groups'. The 'Groups' tab is selected. Below the tabs, there is a table of groups with columns for 'Name', 'Description', and 'Provider'. A 'New' button is visible above the table. The table contains the following data:

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

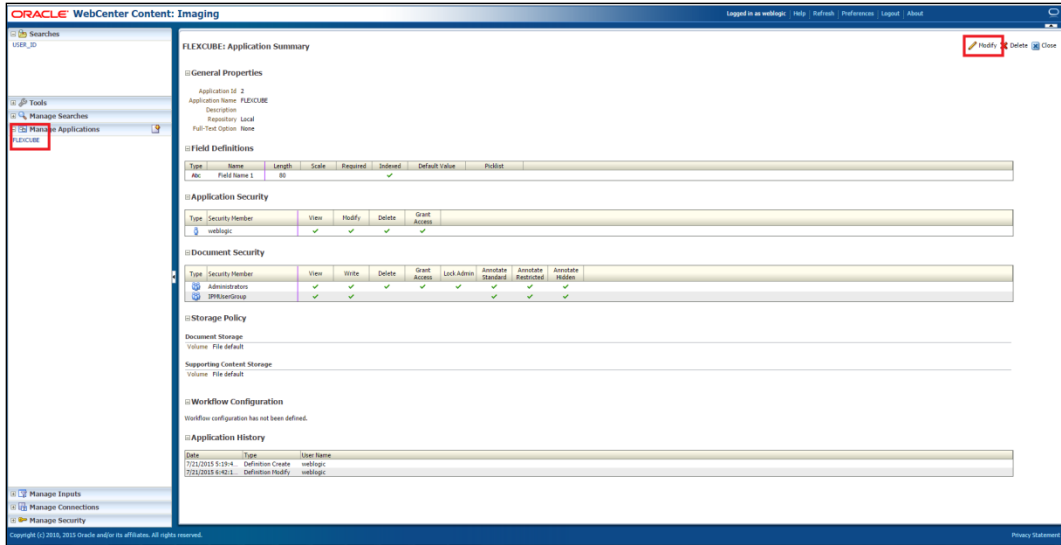
- 4) After Clicking on the new button,
 - Enter the name as “IPMUserGroup”
 - Description for it (optional)
 - And select the authenticator as “DefaultAuthenticator”
 - And then click “Ok”



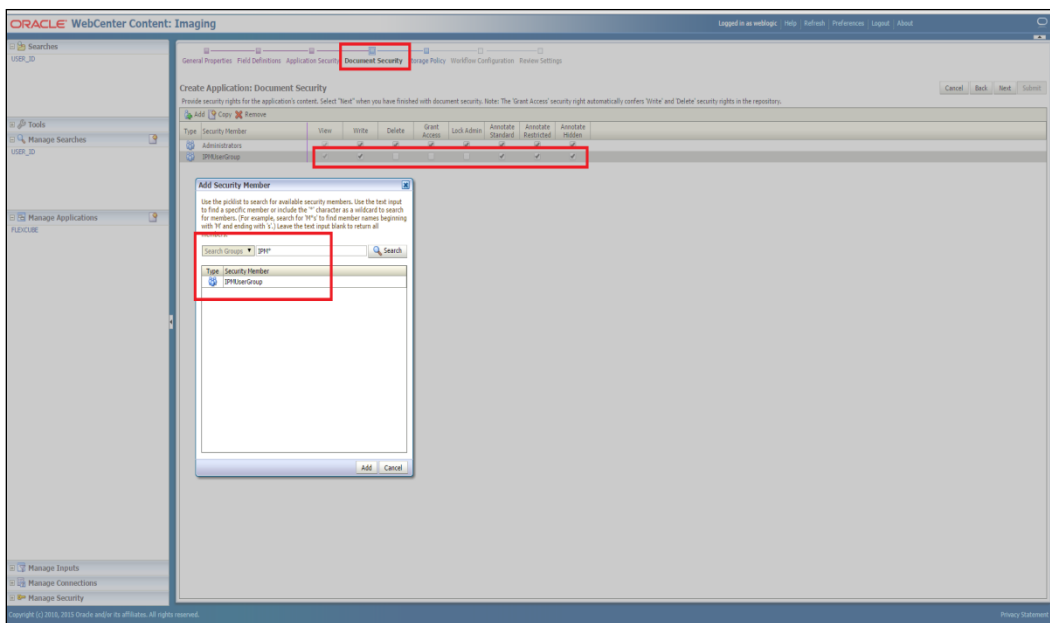
5) Login to the Imaging URL `http/s:<hostname>:<port>/imaging` with admin user



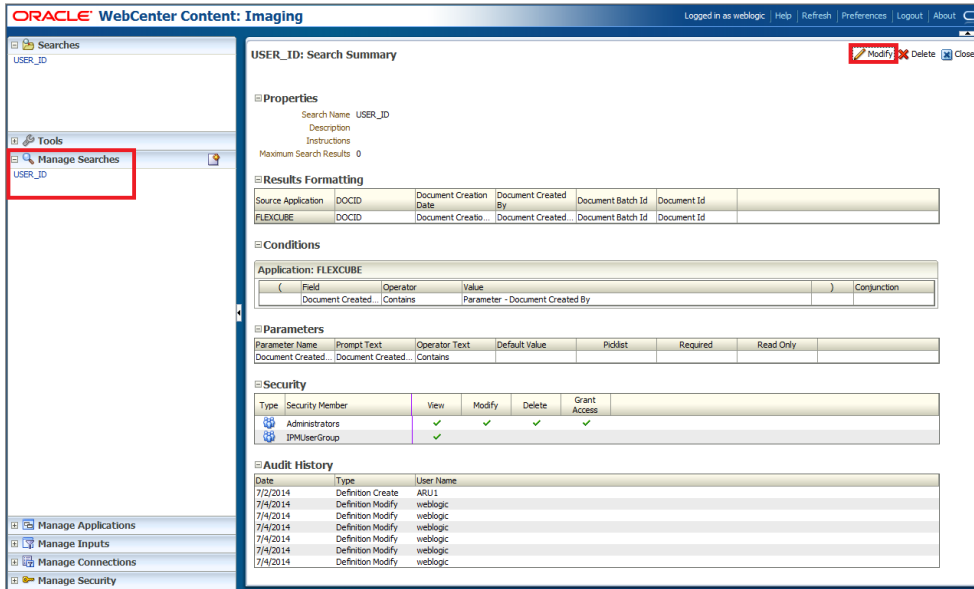
- a. Navigate to Manage Applications
- b. Click on the FLEXCUBE
- c. Then click on the modify on the right pane



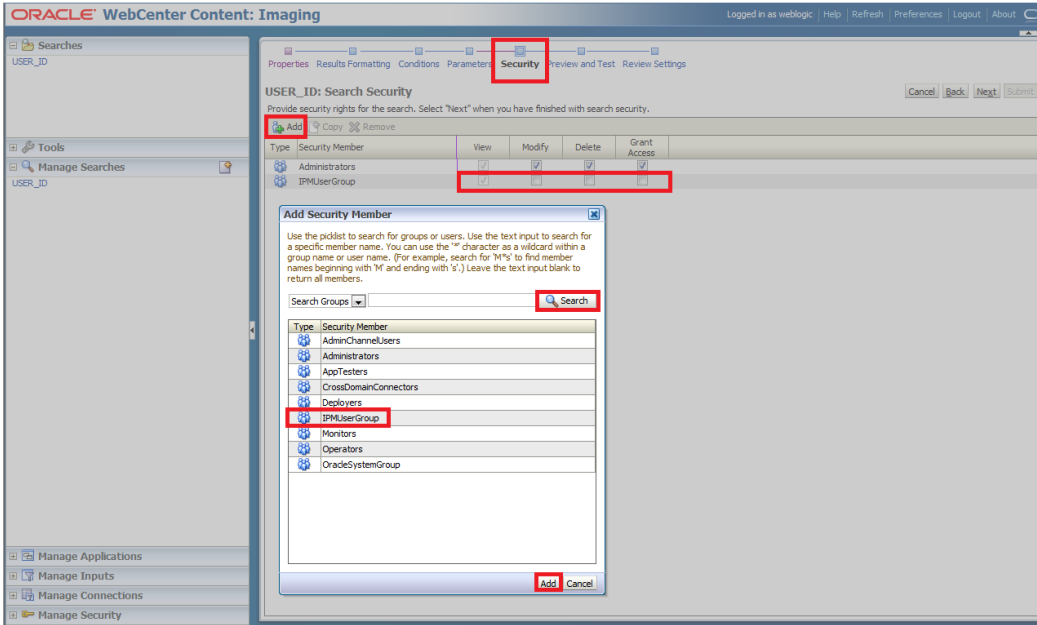
- 6) After clicking on the modify button,
 - a. Navigate to Document Security
 - b. Click on Add button
 - c. Click on Search button in the pop up window
 - d. Select the "IPMUserGroup"
 - e. Click on Add
 - f. IPMUserGroup will be listed in the panel, select view ,write,annotate Standard,Annotate Restricted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



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



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



9) Copy the FCJJSPProvider.jar to location

<ORACLE_HOME >\user_projects\domains\

10) Go to the location – ‘<ORACLE_HOME>\

user_projects\domains\

- 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>
```



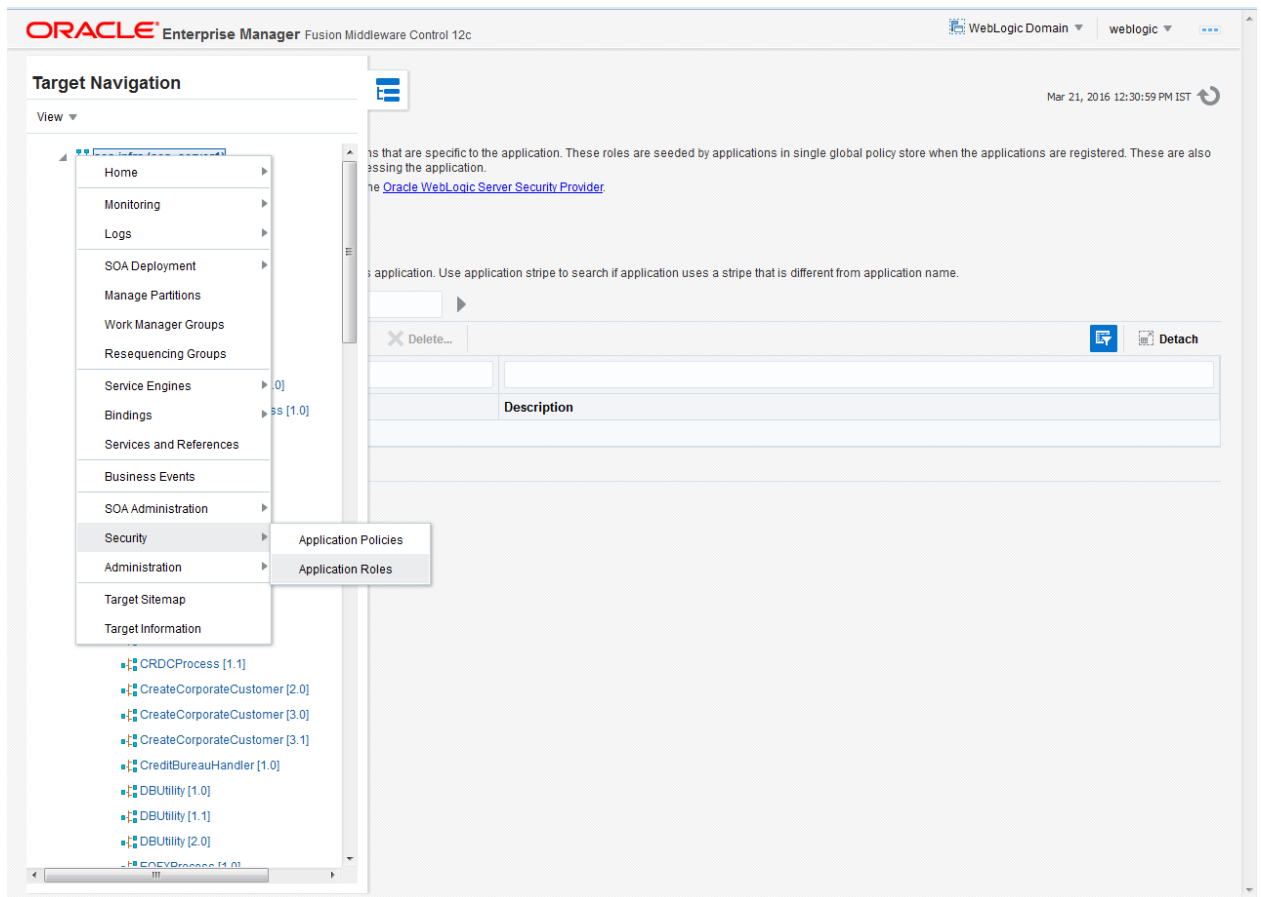
Make sure that the JNDI (jdbc/fcjdevDS) matches the value given during property file creation.

- 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>
```

1.2.10 Configuring Supervisor Roles in EM

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



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

The screenshot shows the Oracle Enterprise Manager interface for Fusion Middleware Control 12c. The page title is "Application Roles". Below the title, there is a search section with a dropdown menu set to "Starts With" and a search input field. Below the search field, there is a table of application roles. The table has three columns: Role Name, Display Name, and Description. The SOAdmin role is highlighted in blue.

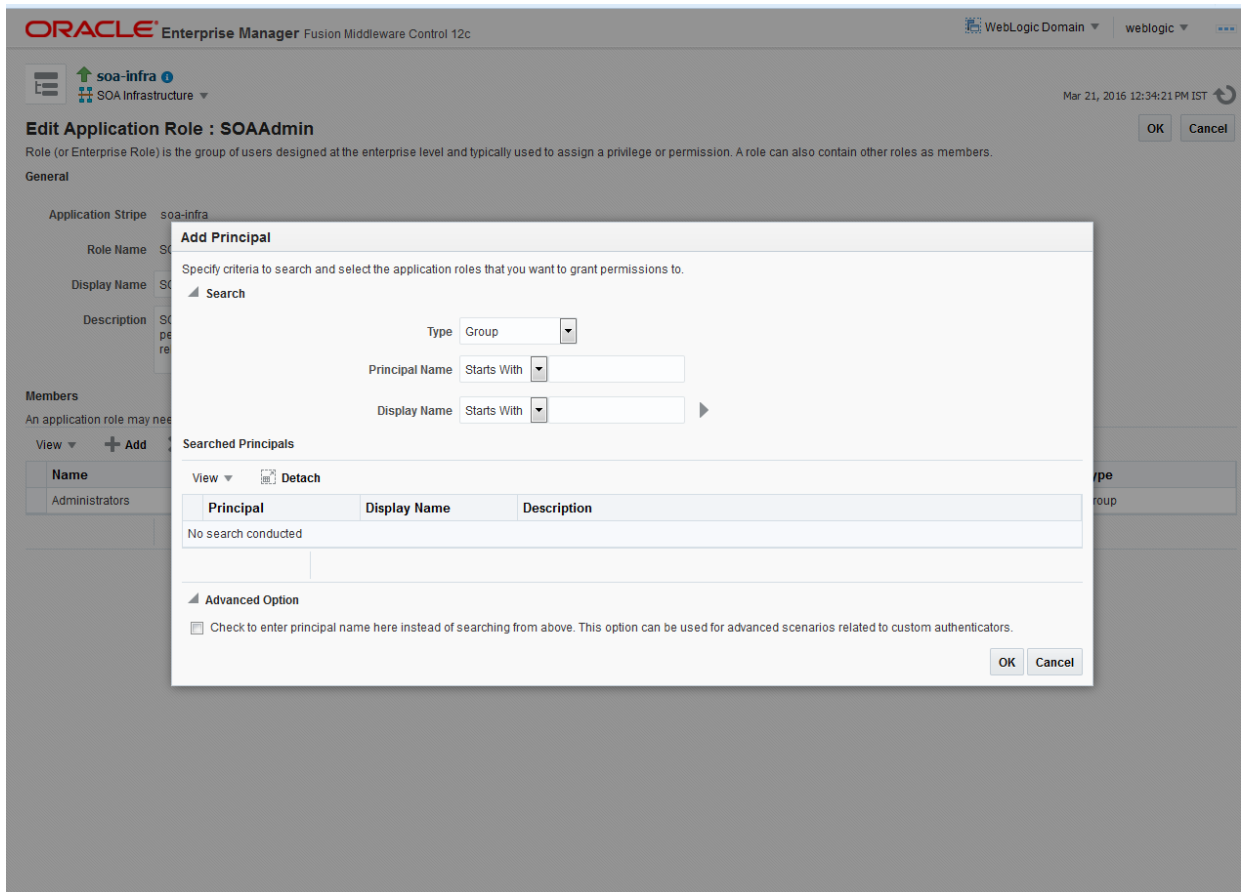
Role Name	Display Name	Description
default_Composer	Composer for the Default Partition	A composer is responsible for making changes to composite artifacts, such as business rules in a business process, security poli...
default_Deployer	Composite Deployer for the Default P...	A deployer is responsible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

3. Select the SOAdmin Role and Click on ‘Edit option’.

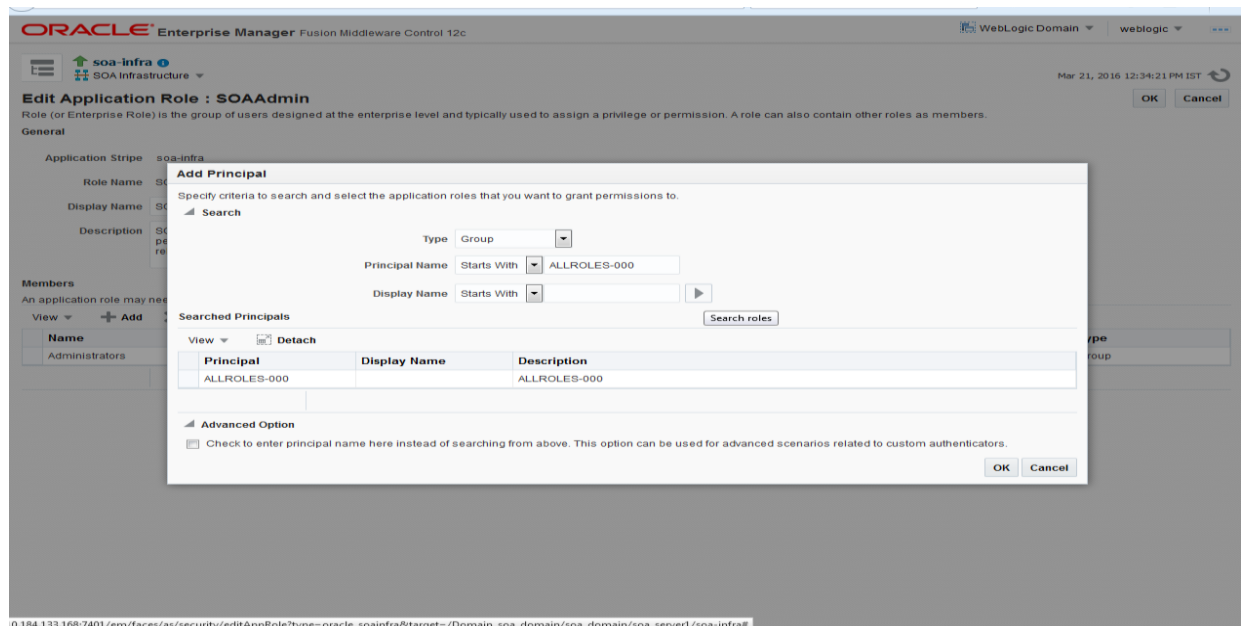
The screenshot shows the Oracle Enterprise Manager interface for Fusion Middleware Control 12c. The page title is "Application Roles". Below the title, there is a search section with a dropdown menu set to "Starts With" and a search input field. Below the search field, there is a table of application roles. The SOAdmin role is highlighted in blue, and the "Edit..." button is visible above the table.

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

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



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



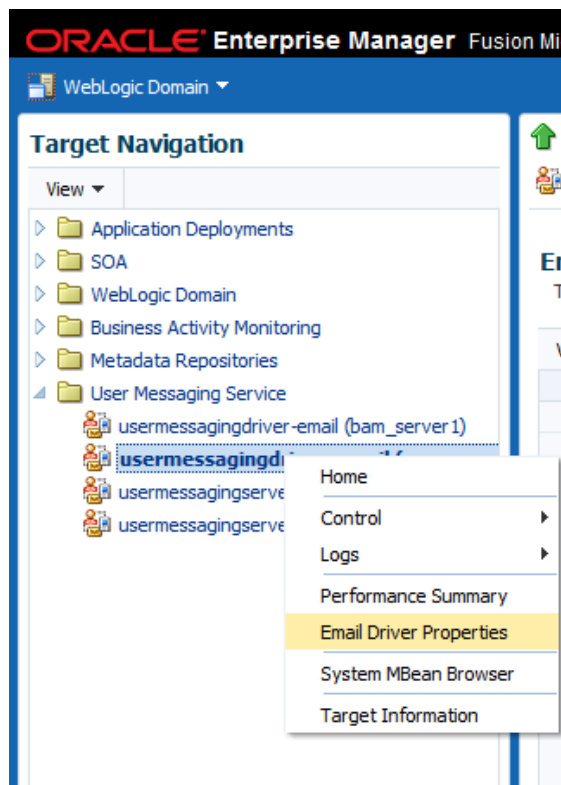
0.184.133.168:7401/em/faces/as/security/editAppRole?type=oracle_soainfra&target=/Domain_soa_domain/soa_domain/soa_server1/soa-infra#

6. Click Ok .

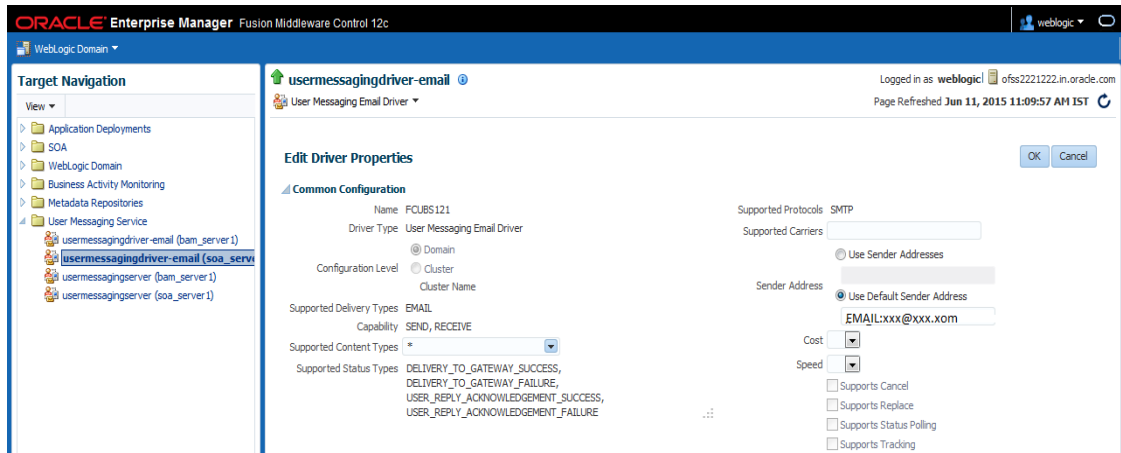
1.2.11 Email Driver Configuration

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

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



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



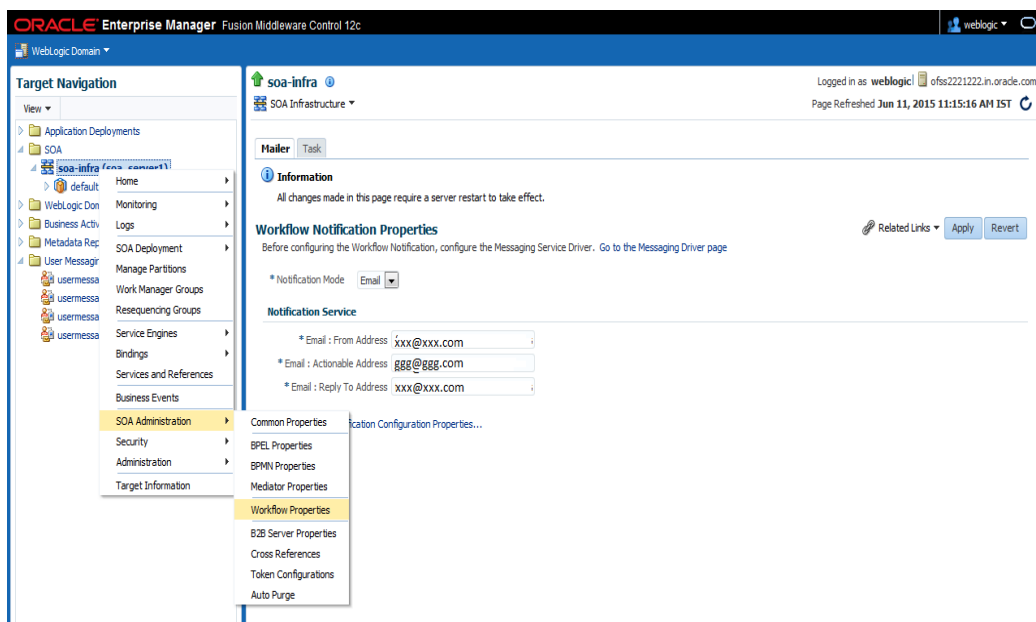
7. Select the mail access protocol (IMAP) as per the mail server specification

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

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

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

13. Navigate to SOA Administration ->Workflow Properties



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

1.2.12 TimeOut Settings for BPEL

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

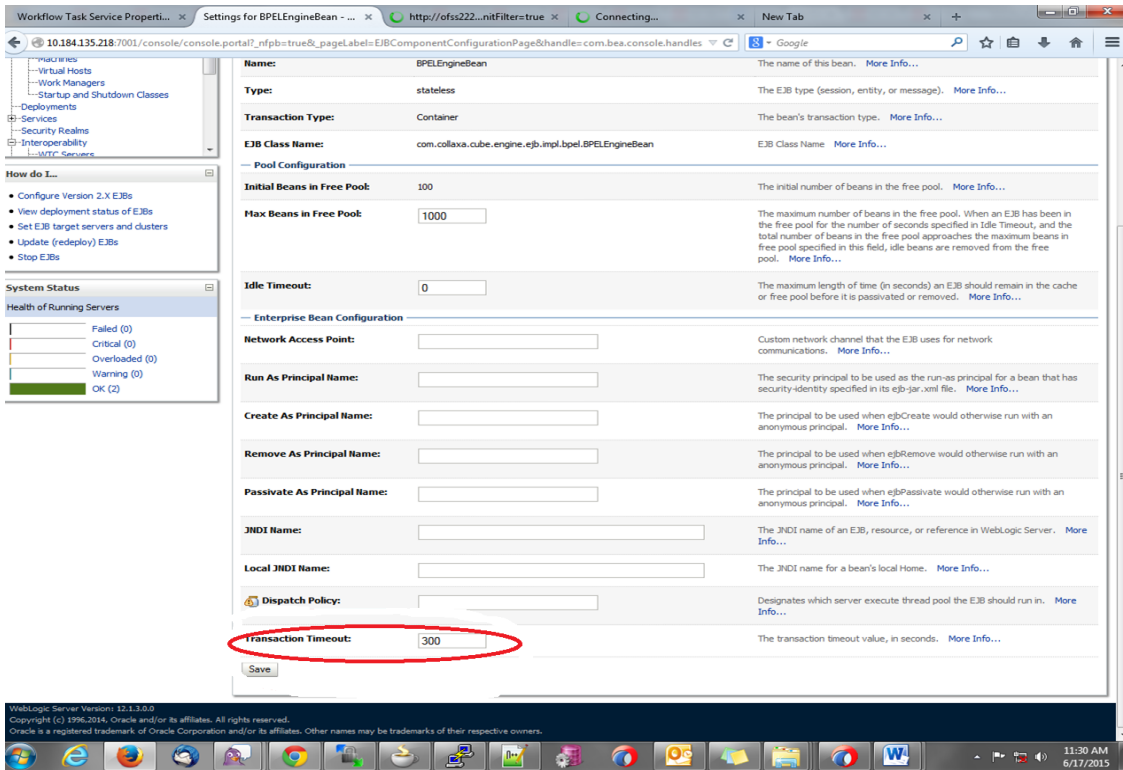
The screenshot shows the Oracle WebLogic Server Administration Console interface. The breadcrumb trail at the top indicates the current location: Home > AlphaDomain > Summary of Servers > AlphaDomain > Summary of Servers > Summary of Deployments > soa-infra > BPELEngineBean. The main content area is titled 'Home Page' and contains several sections: 'Information and Resources' with helpful tools and general information; 'Domain Configurations' with a tree view of the domain structure; 'Environment' with a list of servers, clusters, and other resources; 'Your Deployed Resources' where the 'Deployments' link is circled in red; and 'Your Applications & Security Settings'. The left sidebar includes a 'Change Center' with a 'View changes and restarts' button, a 'Domain Structure' tree, a 'How do I...' section with search and help options, and a 'System Status' section showing the health of running servers.

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

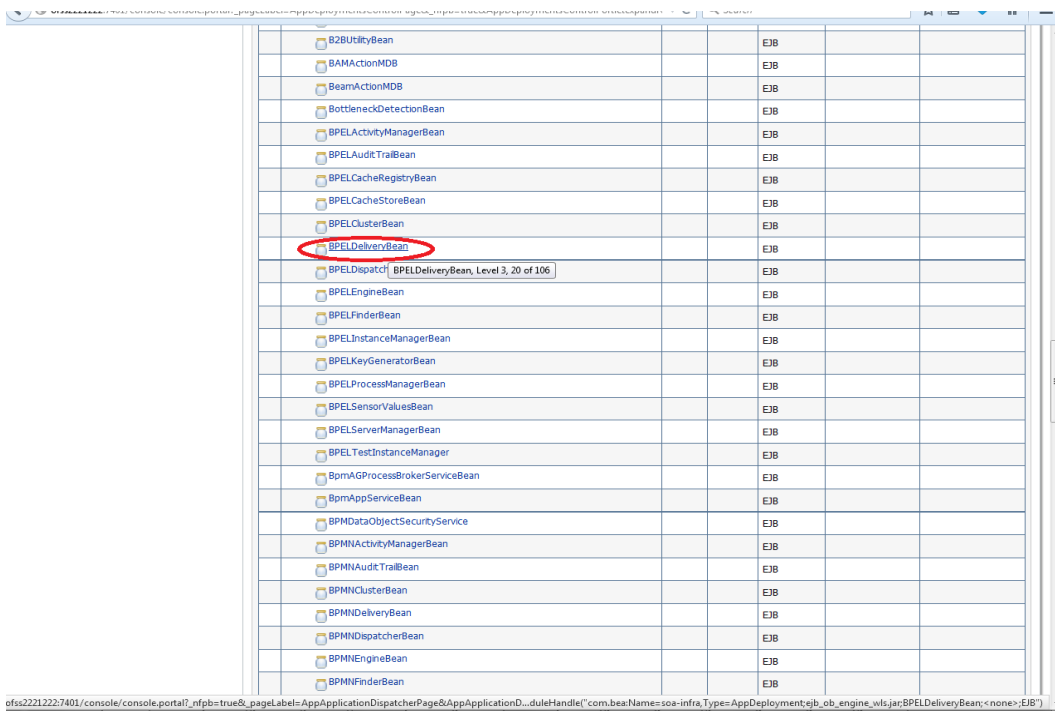
Name	State	Health	Type	Targets	Deployment Order
oracle.wsm.console.core.view(1.0,12.1.3.0)	Active		Library	AdminServer	311
oracle.wsm.seedpolicies(2.0,12.1.3)	Active		Library	AdminServer, BAMServer, SOAServer	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
OracleBamAdapter	Installed		Resource Adapter		329
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
oracl18n-adv(11.1.1.1.1.0)	Active		Library	AdminServer, BAMServer, SOAServer	100
owasp.esap(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
UIDX(11,12.1.3.0.0)	Active		Library	AdminServer, BAMServer, SOAServer	100

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

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



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

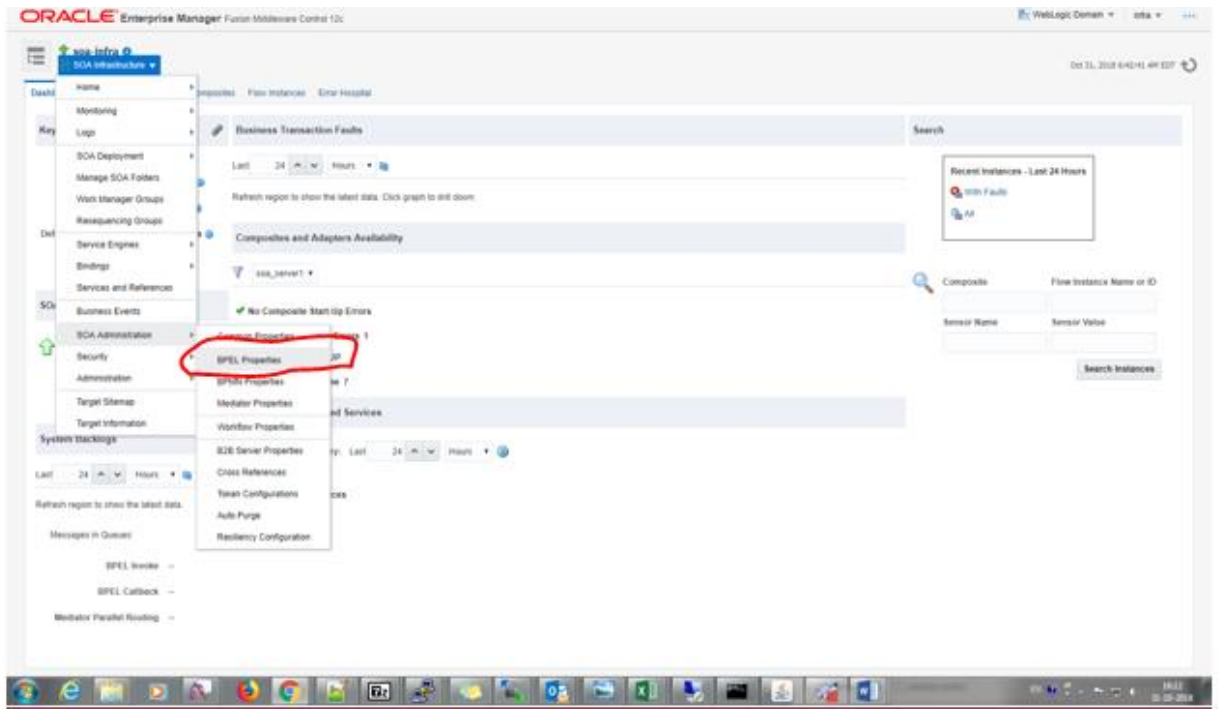


The screenshot displays the configuration page for an EJB in the Oracle JBoss console. On the left, there are panels for 'How do I...' (with links like 'Configure Version 2.X EJBs') and 'System Status' (showing 'Health of Running Servers' with 4 OK servers). The main area shows configuration details for the EJB 'com.collaxa.cube.engine.ejb.impl.bpel.BPELDeliveryBean'. The 'Transaction Timeout' field is circled in red and contains the value '1800'. Other fields include 'Initial Beans in Free Pool' (200), 'Max Beans in Free Pool' (1000), and 'Idle Timeout' (0). The 'Enterprise Bean Configuration' section contains several other fields, most of which are empty.

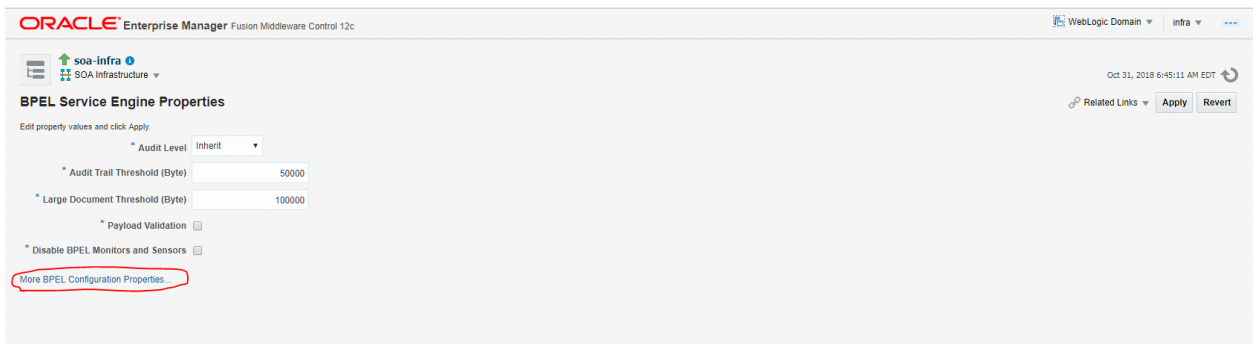
6. Login in to Console → JTA
7. Set the JTA timeout according to the below condition. Make sure BPELEngineBean + BPELDeliveryBean is \leq JTA timeout (e.g. $300+300 \leq 600$)

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

8. Login in to EM console (<http://host:port/em>)→SOA administration→BPEL Properties→



Click on [More BPEL Configuration Properties...](#)



9. Change the SyncMaxWaitTime to 200 secs as in the below screenshot

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | infra

Oct 31, 2018 6:48:35 AM EDT

soa-infra

SOA Infrastructure

System MBean Browser

oracle.as.soainfr...

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
18 MinBPelWait	The minimum time duration for BPel to do a real wait that invol...	RW	2
19 objectName	The MBean's unique JMX name	R	oracle.as.soainfra.config.name=bpel.type=BPelConfig.Application=soa-infra
20 OneWayDeliveryPolicy	Changes whether the one-way invocation messages are deliver...	RW	async.persist
21 QualityOfService	flag to enable or disable coherence cache for bpel service engi...	RW	DirectWrite
22 QualityOfServiceOneWayDelivery	flag to enable or disable coherence cache for bpel service engi...	RW	false
23 ReadOnly	If true, it indicates that this MBean is a read only MBean.	R	false
24 RecoveryConfig	Recovery Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.CompositeType(name...
25 RecurringMaxMessageRaiseSize	Number of messages to recover during recurring recovery	RW	50
26 RestartNeeded	Indicates whether a restart is needed.	R	false
27 SpecCompliance	Sets how the implementation is compliant to the spec	RW	suggest
28 StartupMaxMessageRaiseSize	Number of messages to recover during startup recovery	RW	50
29 StatsLastN	The size of the "most recently processed" request list	RW	-1
30 SyncMaxWaitTime	The maximum time a request/response operation will take befo...	RW	200
31 SystemMBean	If true, it indicates that this MBean is a System MBean.	R	false
32 ValidateXML	If set to "true" the engine will apply schema validation for incom...	RW	false
33 Version	version of the config file	R	11.1.0
34 Visible	If true, it indicates that this MBean is visible to current user.	R	true

1.3 Integrating Oracle FLEXCUBE UBS and Scheduler

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

1.3.1 Running Backend Scripts

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

Follow the steps given below:

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



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

1.4 Integrating Oracle FLEXCUBE UBS and BIP Reports

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

1.4.1 Deploying Application Through Application Server's Admin Console

Deployment from Weblogic Administration Console

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

1.5 Integrating Oracle FLEXCUBE UBS and MBean

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

1.5.1 Startup Script Modification

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

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

1. Go to the Weblogic domain home folder.
 - c) Based on the operating system used, open 'startWeblogic.cmd' or 'startWeblogic.sh' from the folder 'bin'.
 - d) Search for 'WLS_REDIRECT_LOG'. After '%JAVA_OPTIONS%' add the following code under 'if' and 'else' conditions.

“-Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform”

Now, the details will look like this:


```

if "%WLS_REDIRECT_LOG%"==" " (

    echo Starting WLS with line:

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

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

) else (

    echo Redirecting output from WLS window to %WLS_REDIRECT_LOG%

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

)

e) Restart the Weblogic server.

```



Setting up Plug - Ins
[December] [2018]
Version 14.2.0.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
<https://www.oracle.com/industries/financial-services/index.html>

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