

Oracle® FLEXCUBE Investor Servicing

Setting up Plug-Ins



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ORACLE®

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Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Acronyms and Abbreviations](#)

Purpose

This manual is designed to help acquaint you with the installation of **Oracle FLEXCUBE Investor Servicing** application.

Audience

This manual is intended for the following User/User Roles:

Table 1 Users and Roles

Users	Roles
Implementation team	Implementation of Oracle FLEXCUBE Investor Servicing
Presales team	Install Oracle FLEXCUBE Investor Servicing for demo purpose
Bank personnel	Who installs Oracle FLEXCUBE Investor Servicing

Documentation Accessibility

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used are as follows:

Table 2 Acronyms and Abbreviations

Abbreviation	Description
FCIS	Oracle FLEXCUBE Investor Servicing
OEM	Oracle Enterprise Manager

Table 2 (Cont.) Acronyms and Abbreviations

Abbreviation	Description
EMS	Electronic Messaging Service
EJB	Enterprise Java Bean
MDB	Message Driven Beans

1

Set Up Plug-Ins

- [Introduction](#)
- [Integrating Oracle FLEXCUBE IS and BPEL](#)
This topic explains Integrating Oracle FLEXCUBE IS and BPEL.
- [Integrate Oracle FLEXCUBE IS and Scheduler](#)
This topic explains Integrating Oracle FLEXCUBE IS and Scheduler.
- [Integrating Oracle FLEXCUBE IS and BIP Reports](#)
This topic explains Integrating Oracle FLEXCUBE IS and BIP Reports.
- [Integrate Oracle FLEXCUBE IS and MBean](#)
This topic explains to integrate Oracle FLEXCUBE IS and MBean.

1.1 Introduction

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

1.2 Integrating Oracle FLEXCUBE IS and BPEL

This topic explains Integrating Oracle FLEXCUBE IS and BPEL.

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

- [Custom Provider Configuration](#)
This topic explains the details of the custom authentication.
- [Configure libovd for single Entity](#)
This topic explains the configuration of lipovd details for single entity.
- [Configure libovd for Multi Entity](#)
This topic explains to
- [Configure for Multiple Providers for Multiple Entities](#)
This topic explains to configure multiple providers for multiple entities.
- [Configure DBAdapter](#)
This topic explains the steps to configure DBAdapter.
- [Configure JMS Adapter](#)
This topic explains to configure JMS Adapter.
- [Configure FTP Adapter](#)
This topic explains to configure FTP Adapter.
- [BIP Interactive reports configuration](#)
This topic explains the configuration of BIP Interactive Reports.
- [BAM Report Configuration settings](#)
This topic explains the configuration settings for BAM reports.

- [IPM Configuration To Edit The Document](#)
This topic explains to edit the document using the IPM configuration.
- [Configuring Supervisor Roles in EM](#)
This topic explains to configure supervisor roles in the Oracle Enterprise Manager.
- [Email Driver Configuration](#)
This topic explains the steps to configure the email driver.
- [TimeOut Settings for BPEL](#)
This topic explains the TimeOut Settings for BPEL.

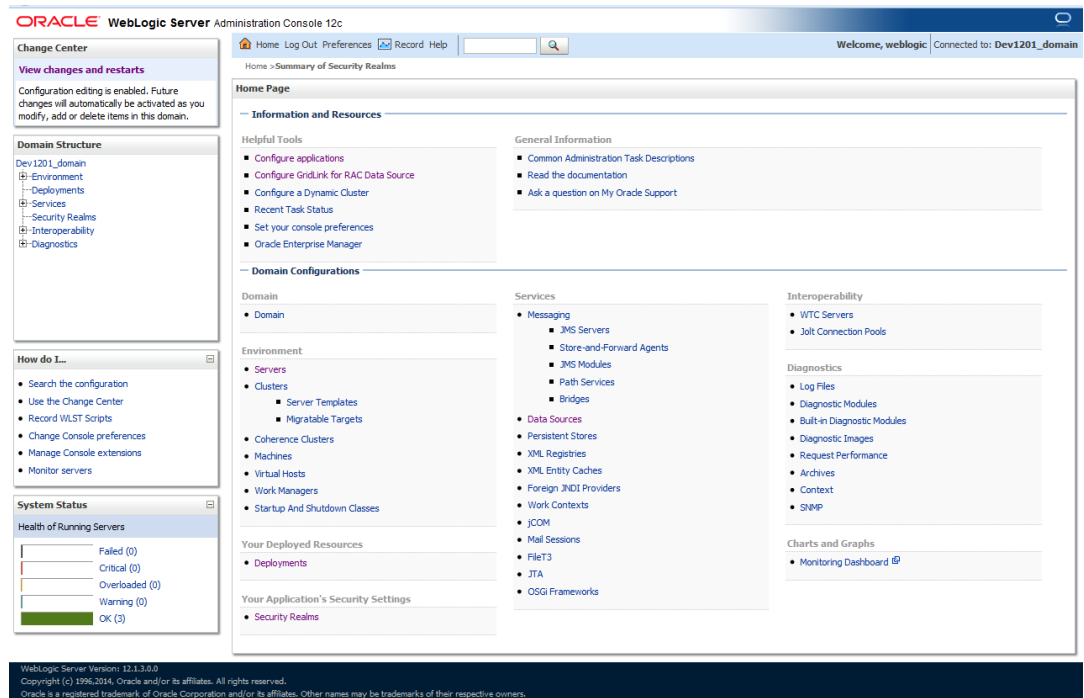
1.2.1 Custom Provider Configuration

This topic explains the details of the custom authentication.

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 need to be followed to setup Custom Authentication Provider:

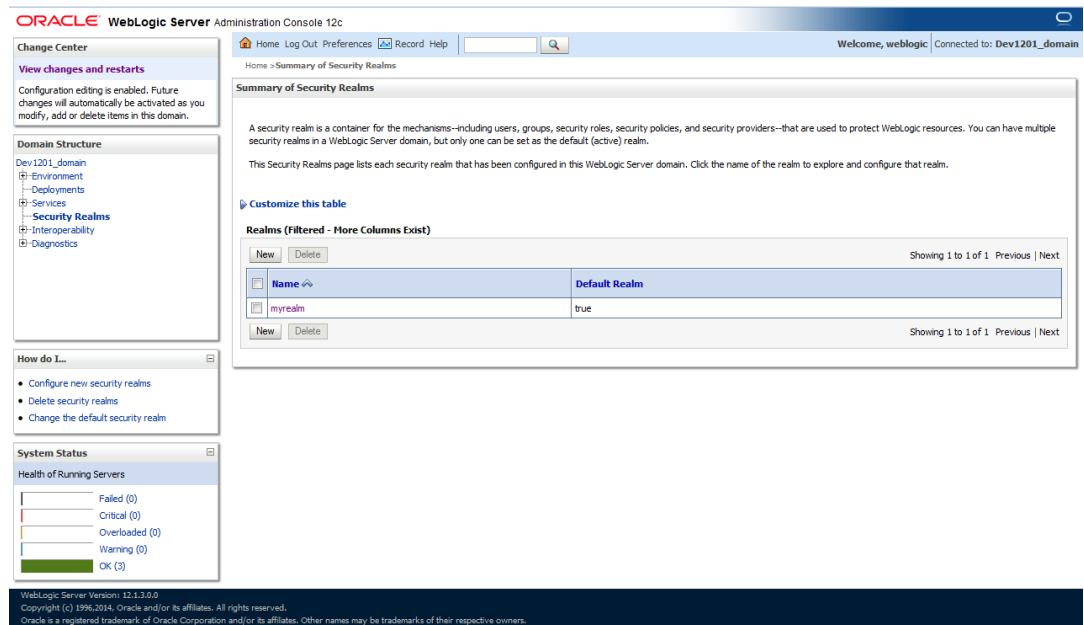
1. Along with the FCIS Ear file, the Installer creates the **FCUBSAuthenticationProvider.jar** file.
 - Copy this file to the following path on the application server host
<ORACLE_HOME>\wlserver\server\lib\mbeantypes.
2. Restart the Admin Server.
3. Login to the Console.
4. Click on Security Realms.

Figure 1-1 Oracle Weblogic Server - Security Realms



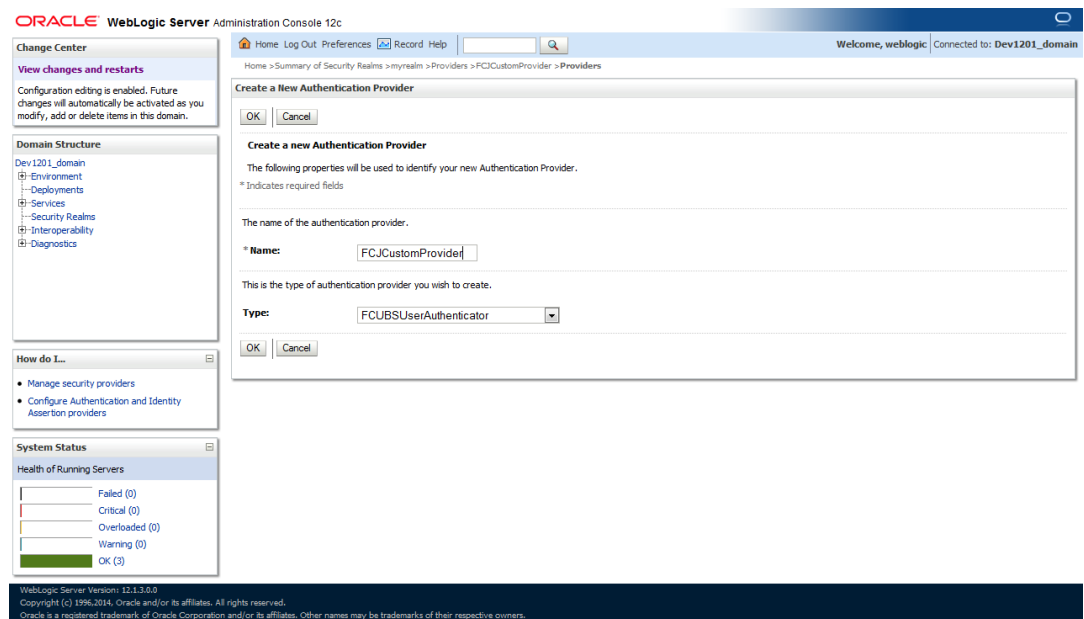
5. Click on myrealm.

Figure 1-2 Oracle Weblogic Server - Security Realms - myRealm



6. Click on the **Providers** tab and click on the **New** button to create a new authentication provider.

Figure 1-3 Oracle Weblogic Server - Providers - Create New Authentication Provider



7. Give the Provider name as **FCJCustomProvider** and type as **FCUBSUserAuthenticator**.
8. Click the **Reorder** button to bring the newly created provider to first of all providers and click the **OK** button.

Figure 1-4 Oracle Weblogic Server - Providers - Reorder

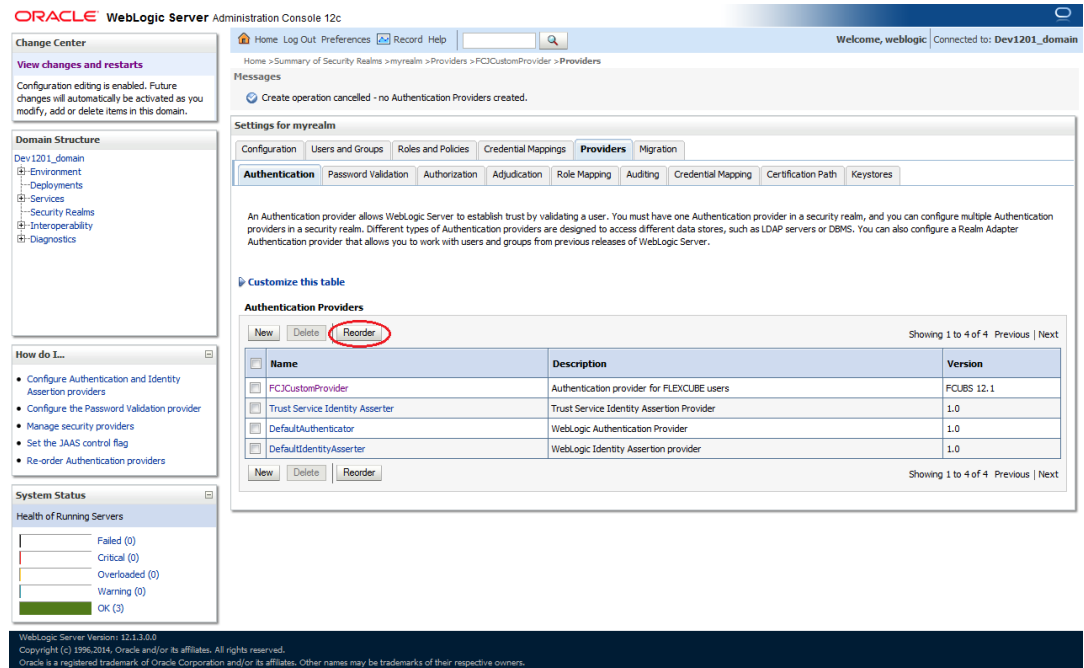
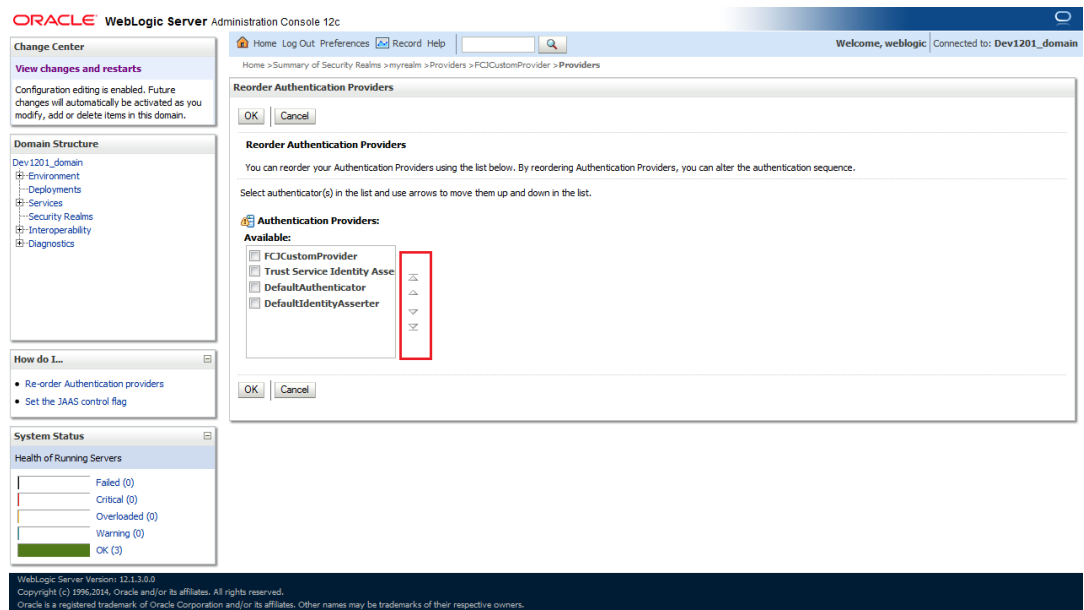
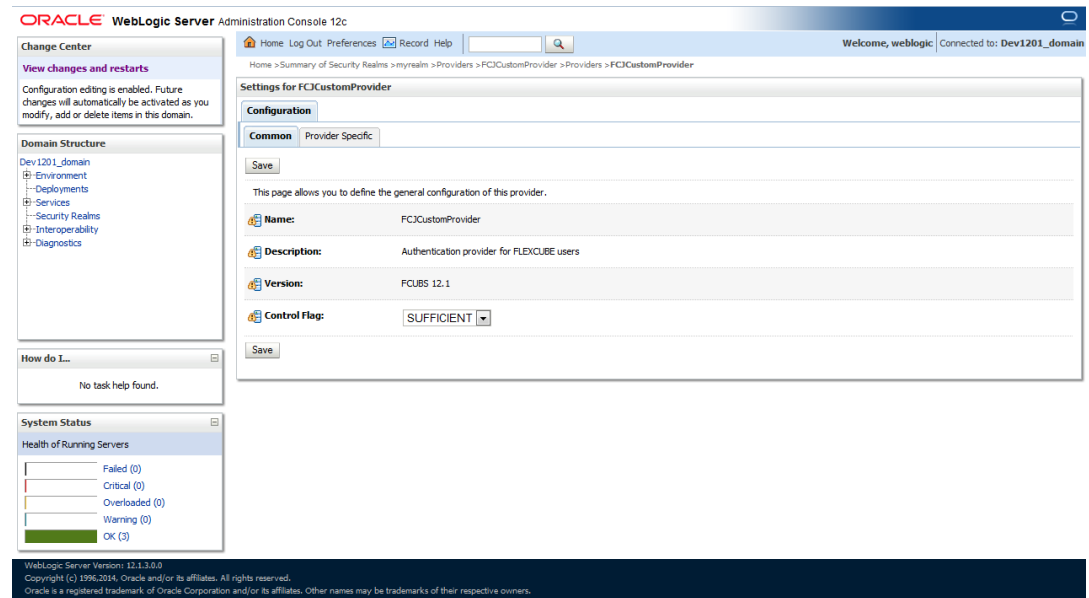


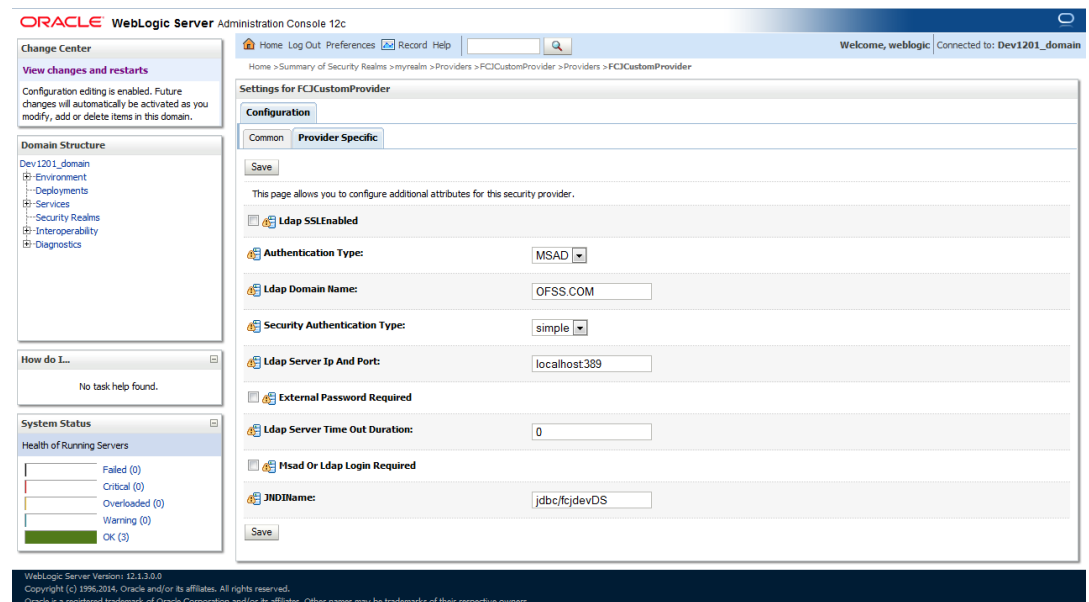
Figure 1-5 Oracle Weblogic Server - Providers - Reorder List



9. Click on **FCJCustomProvider**.
10. In the Common tab, change the control flag to **SUFFICIENT**.

Figure 1-6 Oracle Weblogic Server - Settings for FCJCustomProvider - Common**11. In Provider Specific tab,**

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

Figure 1-7 Oracle Weblogic Server - Settings for FCJCustomProvider - Provider Specific

- 12. For manually editing the config.xml go to**
`<ORACLE_HOME>\Middleware\user_projects\domains\base_domain\config\`
 path and open the config.xml file.
 The following codes need to be added at proper locations in the config.xml.

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

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

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

1.2.2 Configure libovd for single Entity

This topic explains the configuration of libovd details for single entity.

Follow the steps given below to configure the libovd details for a single entity.

1. Along with the Oracle FLEXCUBE IS EAR file, the Installer creates the **FCBPELCIS.jar** file.
2. On the application server host, create a folder by the name **classes** at the location
<MIDDLEWARE_HOME>soa\soa\modules\oracle.soa.ext_11.1.x.
3. Extract the file **FCBPELCIS.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 defined in the property file **fcubs.properties**.
5. Copy **FCBPELCIS.jar** to <MIDDLEWARE_HOME>/user_projects/domains/<domain_name>/config/fmwconfig/ovd/plugins/lib.
Create the directory structure if it does not exists.
6. Copy the [fcubs_adapter.xml](#) to <MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/.
7. Search for <FCUBSDATASOURCE> in fcubs_adapter.xml and update it with FCUBS Datasource name.
8. Execute the **libovdadapterconfig** script which is present in <MIDDLEWARE_HOME>/oracle_common/bin with below parameters.
9. 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
<FCUBSDATASOURCE>
```

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

1.2.3 Configure libovd for Multi Entity

This topic explains to

Follow the steps given below to configure the libovd details for multi entity.

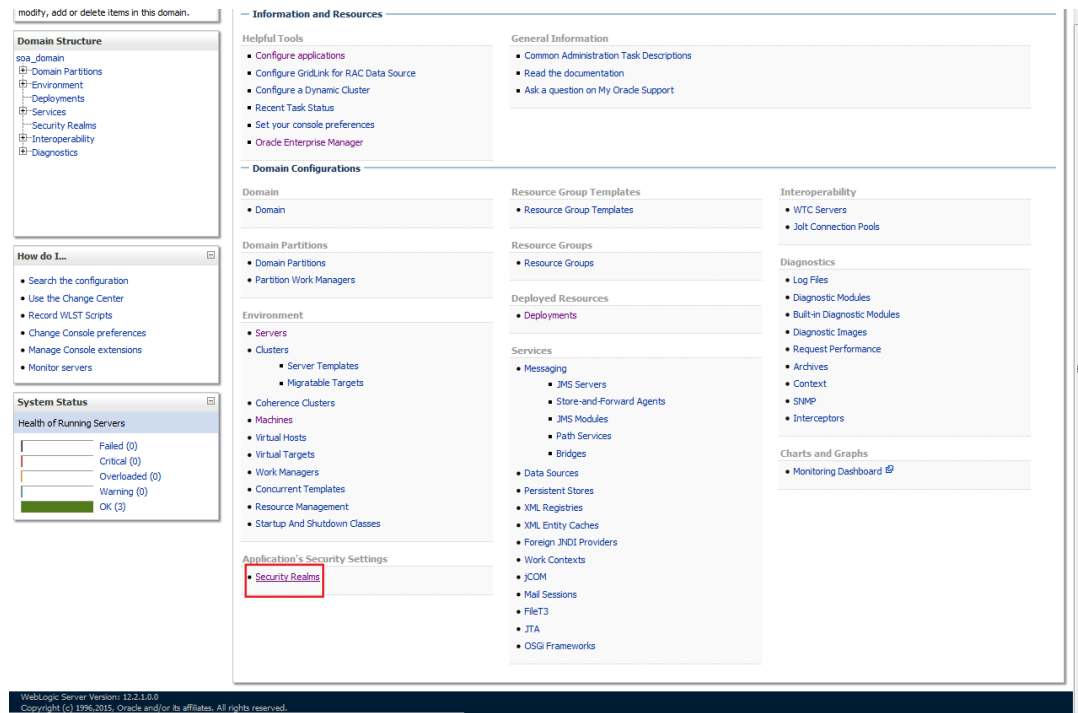
1. Continue step 1 to step 5 from [Configure libovd for single Entity](#).
2. In the following steps, replace the <EntityId> tag with the proper Entity name.
3. Copy the [fcubs_adapter_<EntityId>.xml](#) to <MIDDLEWARE_HOME>/oracle_common/modules/oracle.ovd/templates/
4. Search for <FCUBSDATASOURCE> in fcubs_adapter_<EntityId>.xml and update it with fcubs Datasource with the mapped Datasource for the entity in the property file.
EX:<param name="DataSource" value="<FCUBSDATASOURCE>" />
5. Search for UserIdPattern Parameter and Update the value for OU to the entity name in lower case.
EX: <param name="UserIdPattern"
value="cn=%USERID%,ou=<EntityId>,dc=oracle,dc=com" />
6. Search for MultiEntityEnabled element and update the value to **true**.
EX: <param name="MultiEntityEnabled" value="true" />
7. Search for EntityId element and update the value with the entity name in lower case which we have created.
EX:<param name="EntityId" value=" <EntityId>" />
8. Execute "libovdadapterconfig" script which is present in <MIDDLEWARE_HOME>/oracle_common/bin with below parameters.
9. Update the admin server host name or IP, admin server port, WebLogic user id, domain home, root, and fcubs datasource.
libovdadapterconfig.sh -adapterName fcubsAdapter -adapterTemplate
fcubs_adapter_<EntityId>.xml -host <ADMIN_SERVER_HOST> -port <ADMIN_PORT> -
userName <WEBLOGIC_USERID> - domainPath <DOMAIN_HOME> -dataStore DB -root
ou=<EntityId>,dc=oracle,dc=com -contextName default -dataSourceJNDIName
<FCUBSDATASOURCE name which we mapped in step4>
10. Repeat from step 2 to step 7 for each entity creation.
11. Once the above steps are completed, restart the server.

1.2.4 Configure for Multiple Providers for Multiple Entities

This topic explains to configure multiple providers for multiple entities.

1. Login to the Adminserver.
The **Oracle Weblogic Server** screen is displayed.
2. Click on Security Realms.
The **Summary of Security Realms** screen is displayed.

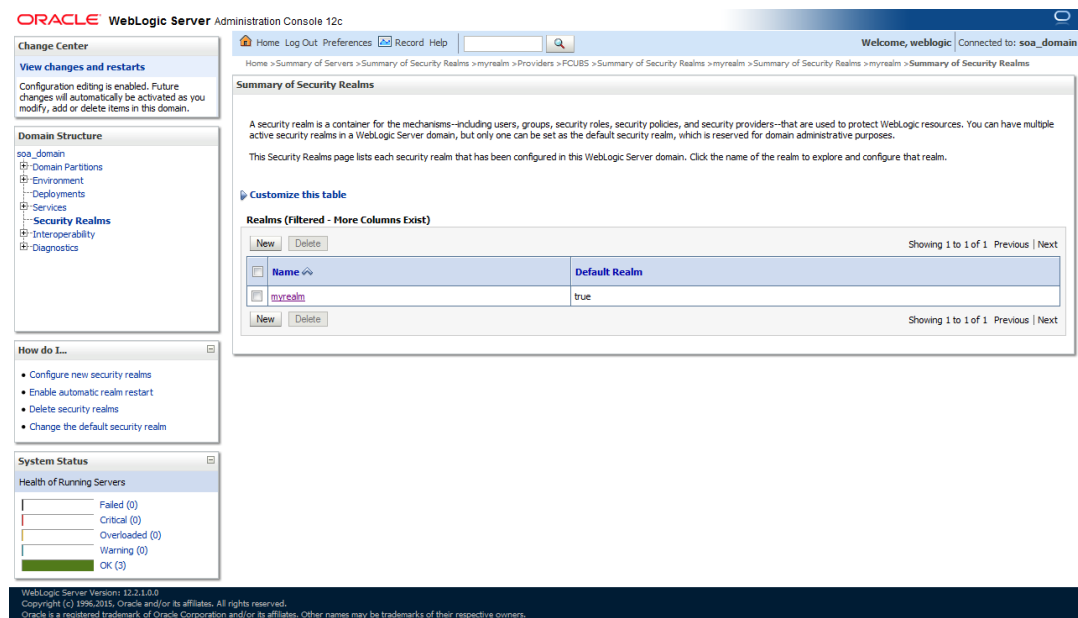
Figure 1-8 Summary of Security Realms



3. Click on myrealms.

The **Settings for myrealms** screen is displayed.

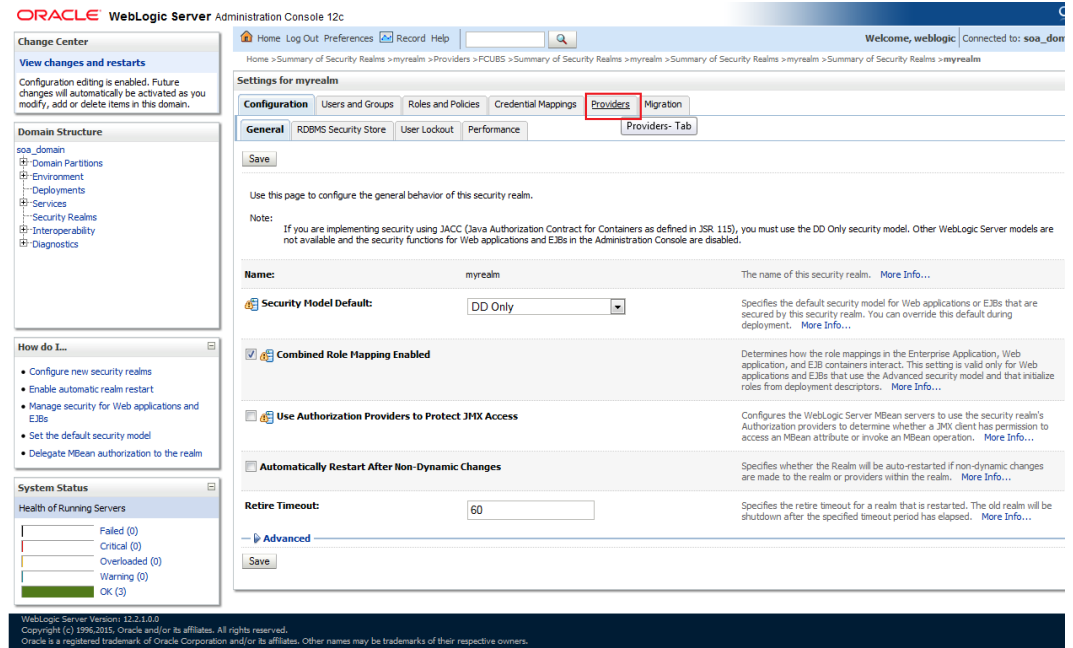
Figure 1-9 Settings for myrealms



4. Click on Providers tab.

The **Settings for myrealms - Providers** screen is displayed.

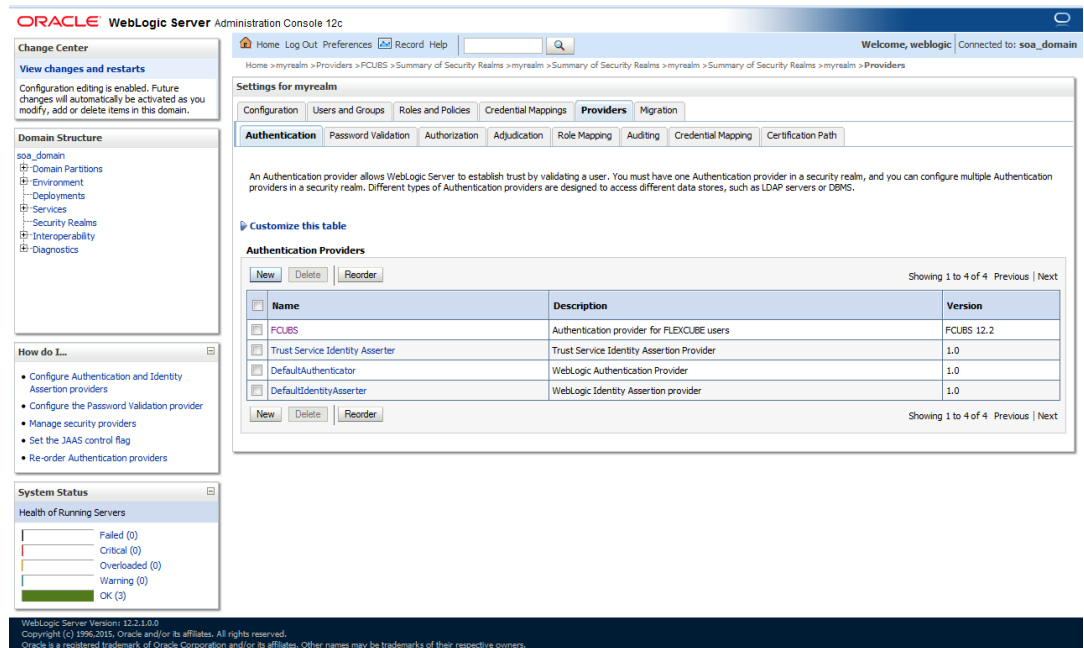
Figure 1-10 Settings for myrealms - Providers



- Click on **New**.

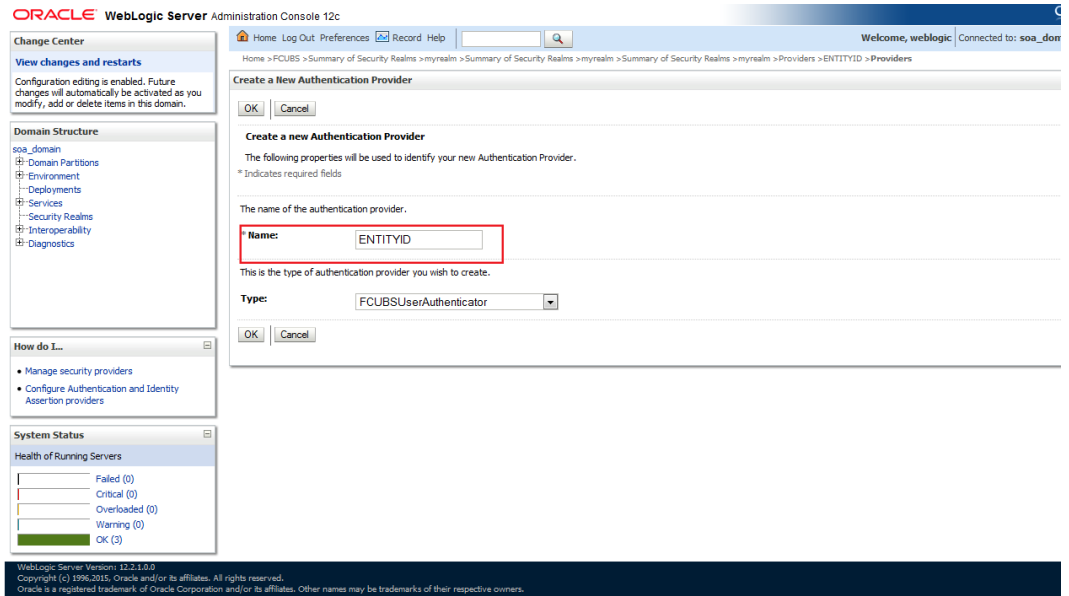
The **Create a New Authentication Provider** screen is displayed.

Figure 1-11 Create a New Authentication Provider



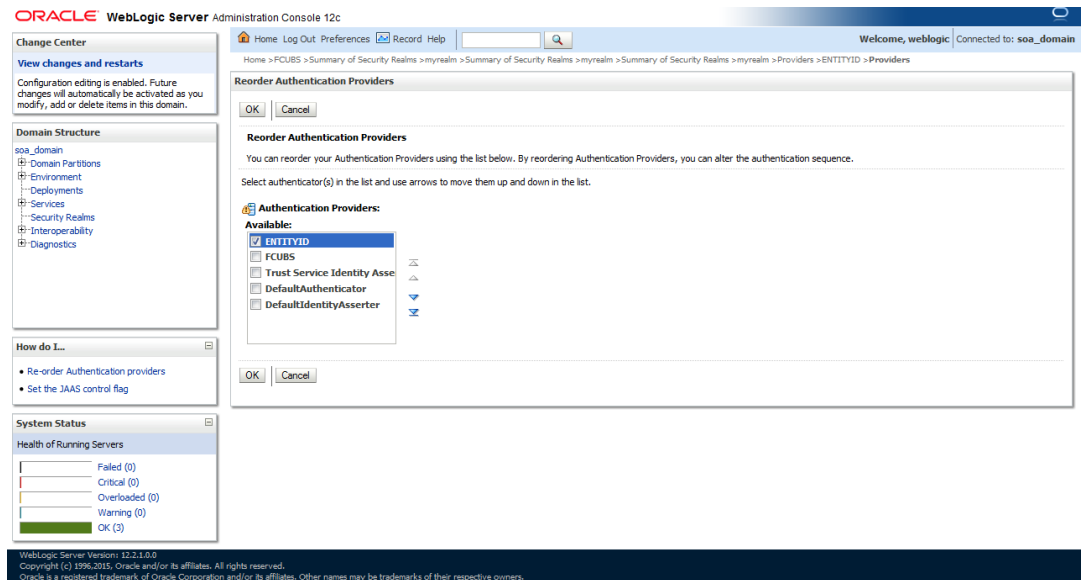
- Enter the Name with proper Entity Name (entity name we mapped provider in property file) and select the type as **FCUBSUserAuthenticator** and click **OK**.

Figure 1-12 Create a New Authentication Provider with Entity ID



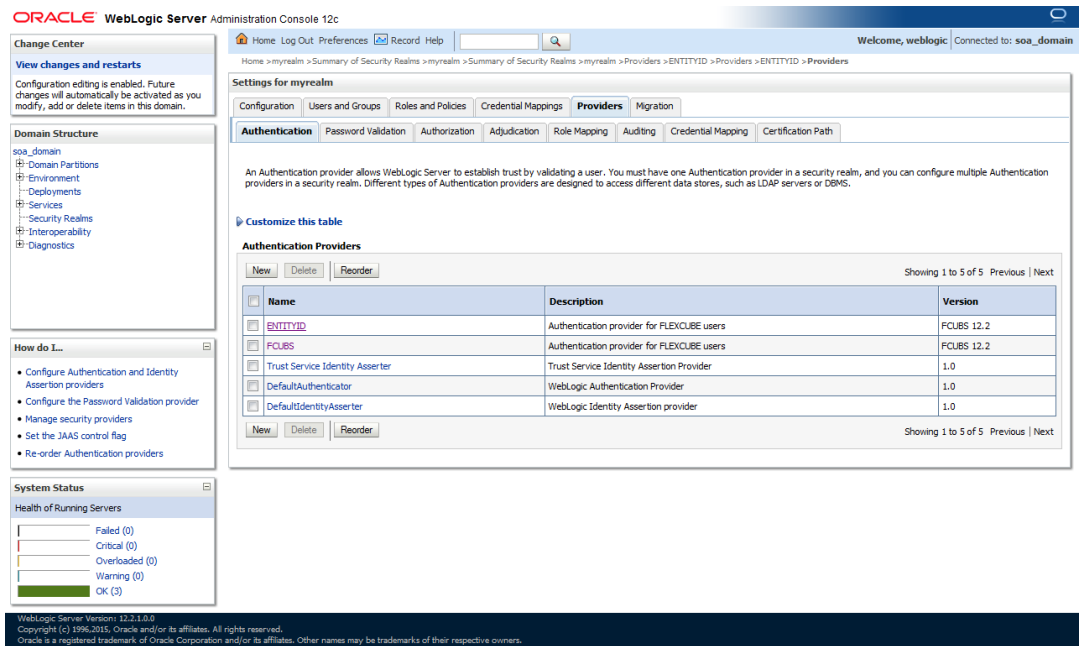
7. Click on **Reorder**. Select the required option in **Available** field and click OK.
The **Reorder Authentication Providers** screen is displayed.

Figure 1-13 Reorder Authentication Providers



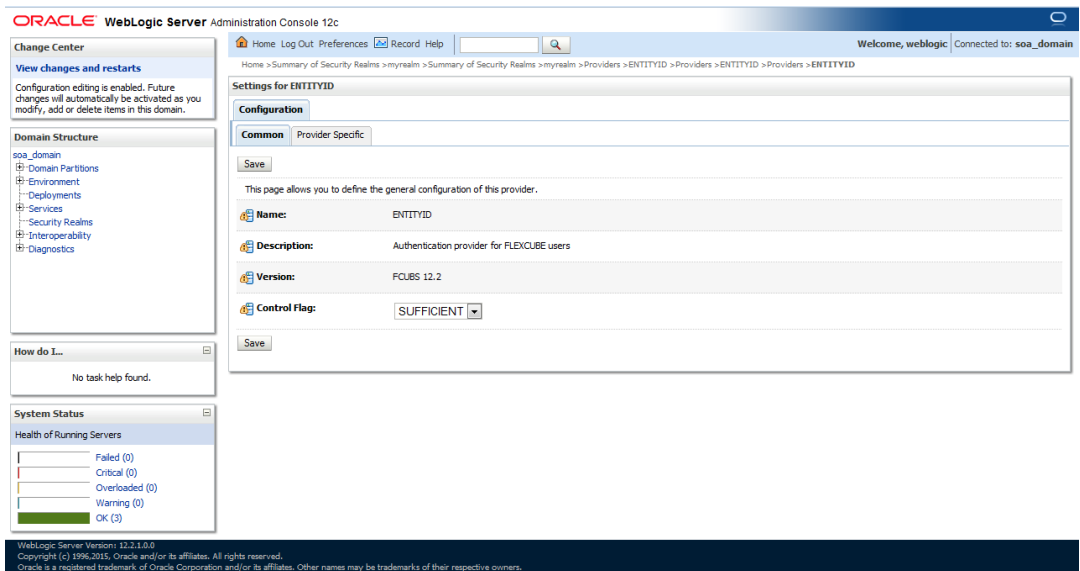
8. Click on the Provider that we have created.
The **Settings for myrealms - Providers - New Provider** screen is displayed.

Figure 1-14 Settings for myrealms - Providers - New Provider



- In the common tab, select the control flag as **SUFFICIENT** from the list and click on **Save**. The **Settings for ENTITYID** screen is displayed.

Figure 1-15 Settings for ENTITYID - Common



- Select the provider specific tab. The **Provider Specific** screen is displayed.

Figure 1-16 Settings for ENTITYID - Provider Specific

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa_domain

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

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Ldap Server Ip And Port: localhost:389

JNDIName: jdbc/fcdevDS

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSLEnabled

Msad Or Ldap Login Required

Authentication Type: MSAD

Save

WebLogic Server Version: 12.2.1.0.0
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11. Change the JNDI name to the Datasource JNDI name, which has mapped to the entity in the property file level, and check the Multi Entity enabled checkbox.

Figure 1-17 Settings for ENTITYID - Provider Specific - Multi Entity

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa_domain

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

Settings for ENTITYID

Configuration

Common Provider Specific

Save

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

Ldap Server Ip And Port: localhost:389

JNDIName: jdbc/fcdevDS

External Password Required

Ldap Server Time Out Duration: 0

Multi Entity Enabled

Security Authentication Type: simple

Entity Id: ENT1

Ldap Domain Name: OFSS.COM

Ldap SSLEnabled

Msad Or Ldap Login Required

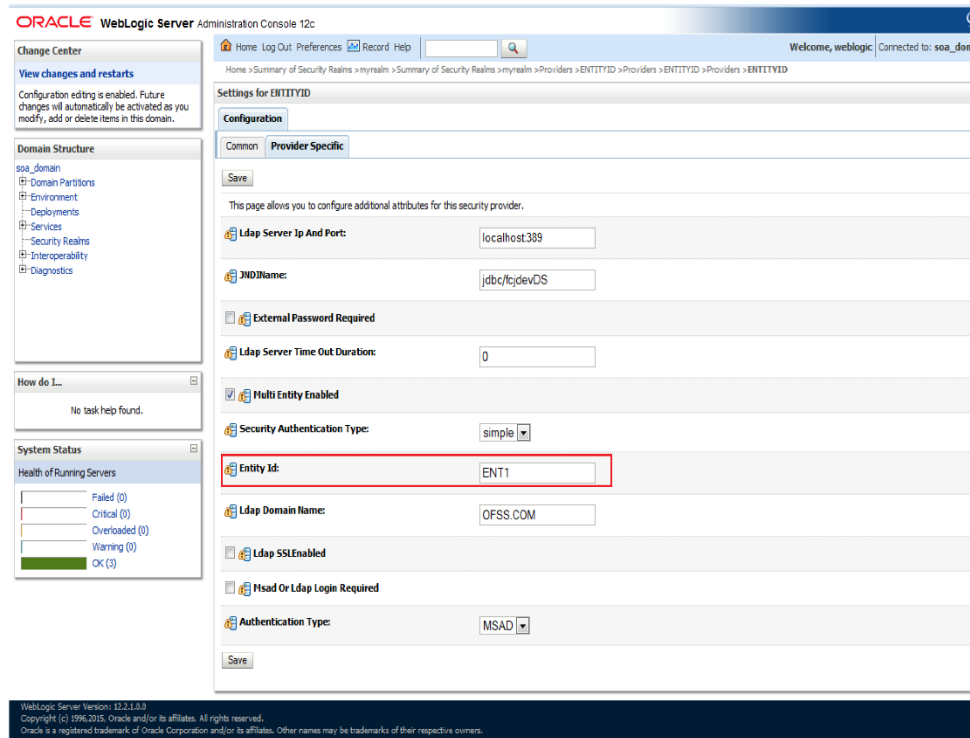
Authentication Type: MSAD

Save

WebLogic Server Version: 12.2.1.0.0
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12. Enter the EntityId with the Entity name which we created in the property file level and click on **Save**.

Figure 1-18 Settings for ENTITYID - Provider Specific - Entity Id



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 step 1 to step 15 for each provider creation in a multientity scenario.

1.2.5 Configure DBAdapter

This topic explains the steps to configure DBAdapter.

To configure DBAdapter, follow the steps given below.

1. Log in to **Weblogic Console** and click **Deployment** under **Domain Structure**.
The **Summary of Deployments** screen is displayed.

Figure 1-19 Summary of Deployments

Summary of Deployments

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

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

Customize this table

Deployments

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

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

The **Settings for DBAdapter** screen is displayed.

Figure 1-20 Settings for DBAdapter

Settings for DBAdapter

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

Outbound Connection Pool Configuration Table

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

- Click the **Configuration** tab and select **Outbound Connection Pools** under it.
- 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 the **Dbutility sub-process**.

7. Click the **DbAdapter** again.
The new JNDI name is listed.
8. Click on the hyperlink **eis/DB/FCCDEV**.

The **Settings for javax.resource.cci.ConnectionFactory** screen is displayed.

Figure 1-21 Settings for javax.resource.cci.ConnectionFactory

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for javax.resource.cci.ConnectionFactory" and includes tabs for General, Properties, Transaction, Authentication, Connection Pool, and Logging. The "Properties" tab is selected, showing a table of configuration properties for the outbound connection pool.

Property Name	Property Type	Property Value	Supports Dynamic Updates
DataSourceName	java.lang.String	jdbc/fcdevOS	false
DefaultChar	java.lang.Boolean	false	false
PlatformClassName	java.lang.String	org.eclipse.persistence.platform.database.Oracle10Platform	false
SequencePreallocationSize	java.lang.Integer	50	false
UseBatchWriting	java.lang.Boolean	true	false
UseRelativeSequencing	java.lang.Boolean	true	false
UseSkipLocking	java.lang.Boolean	true	false
XADataSourceName	java.lang.String		false

9. Click the **Property Value** field for the **DataSourceName** and update the application JNDI reference (given in fcubs.properties file), and press the **Enter** key.
10. **Save** and restart the Admin server.

1.2.6 Configure JMS Adapter

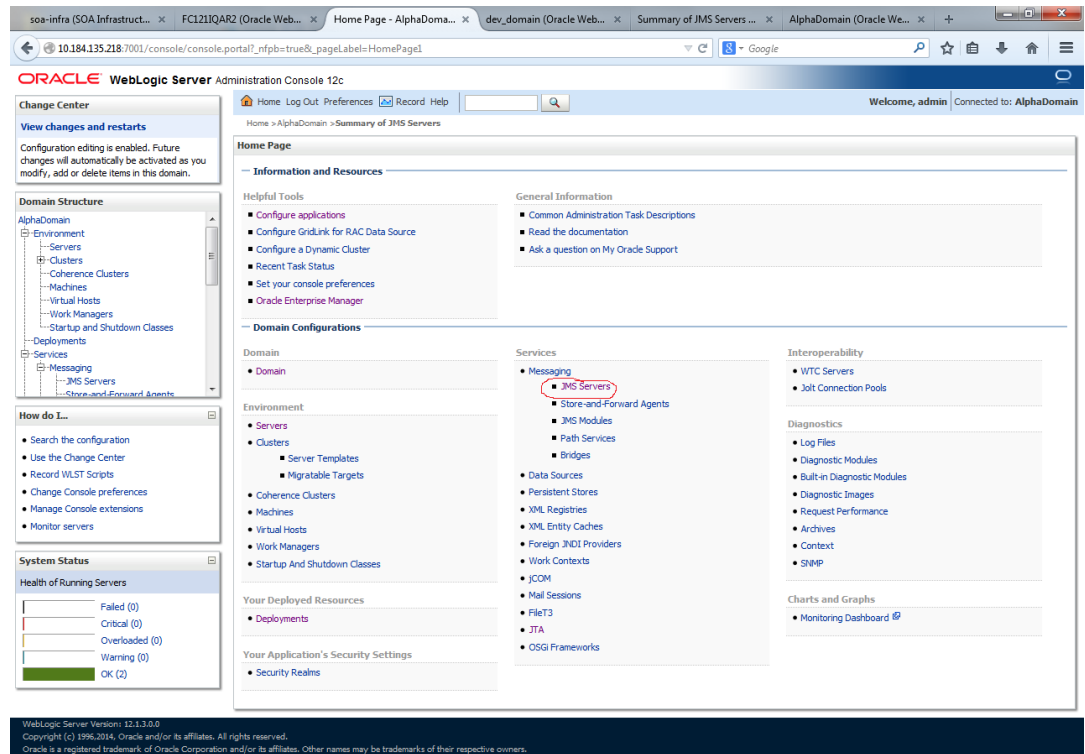
This topic explains to configure JMS Adapter.

To configure JMS Adapter, follow the steps given below.

1. Log in to **Weblogic Console** and click on **JMS Servers** under **Domain Configurations - Services**.

The **Weblogic Console Home Page** is displayed.

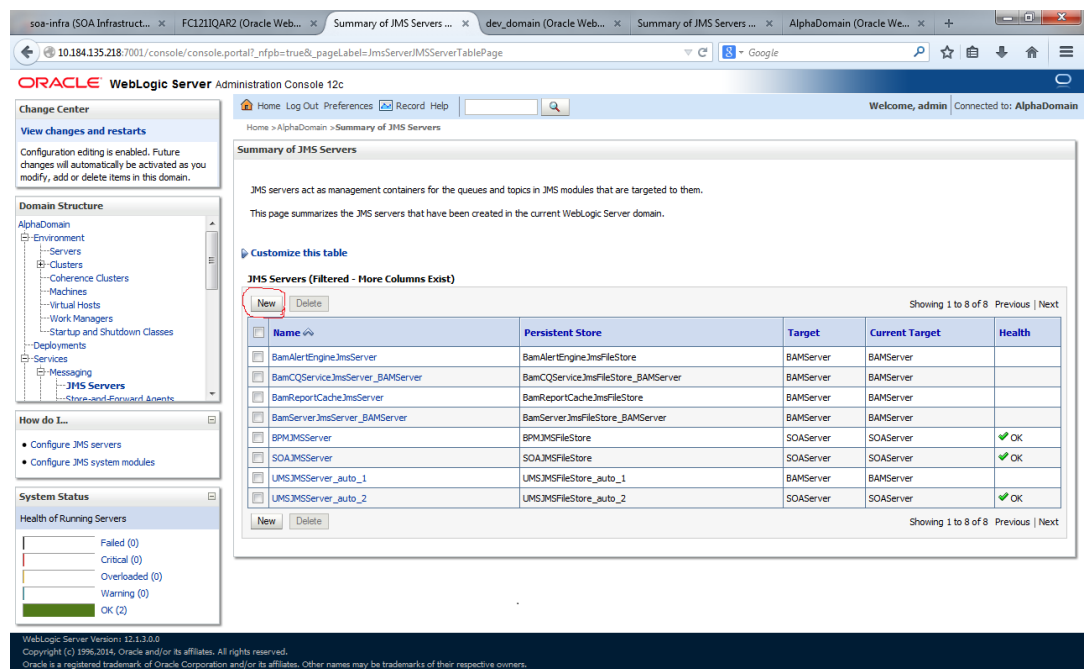
Figure 1-22 Weblogic Console Home Page



2. Click on **New**.

The **Summary of JMS Servers** screen is displayed.

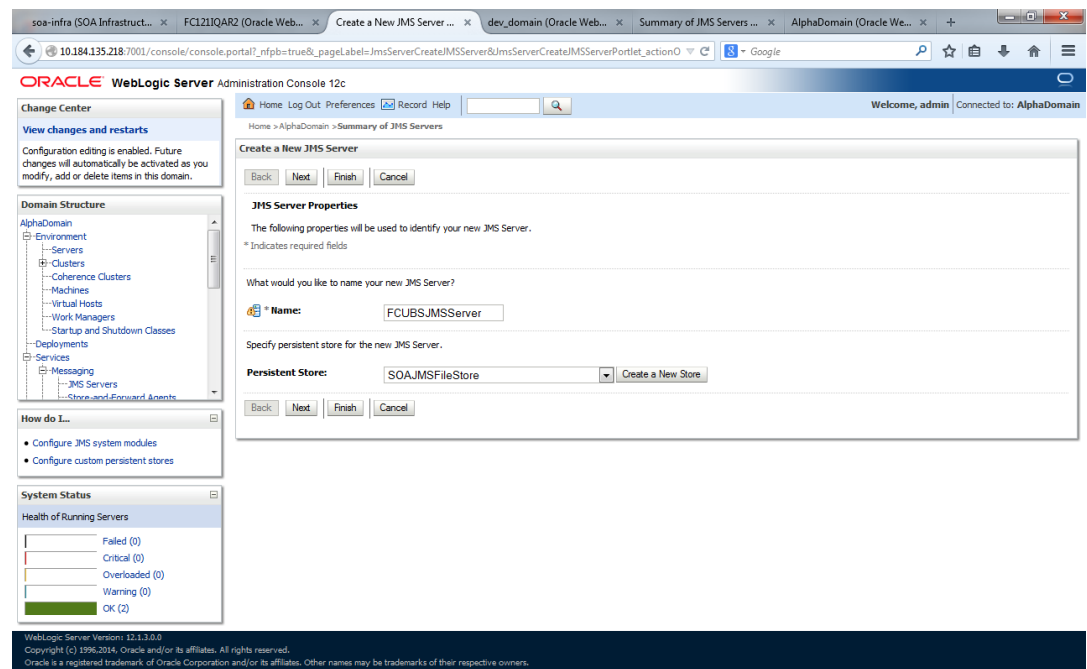
Figure 1-23 Summary of JMS Servers



3. Provide the **Name** for JMS Server as **FCUBSJMSServer**, select the file **Persistent Store** as **SOAJMSFileStore** from the dropdown list and click **Next**.

The **Create a New JMS Server** screen is displayed.

Figure 1-24 Create a New JMS Server



4. Select the **Target** as SOAServer from the dropdown list and click **Finish**.
The **Create a New JMS Server - Select Target** screen is displayed.

Figure 1-25 Create a New JMS Server - Select Target

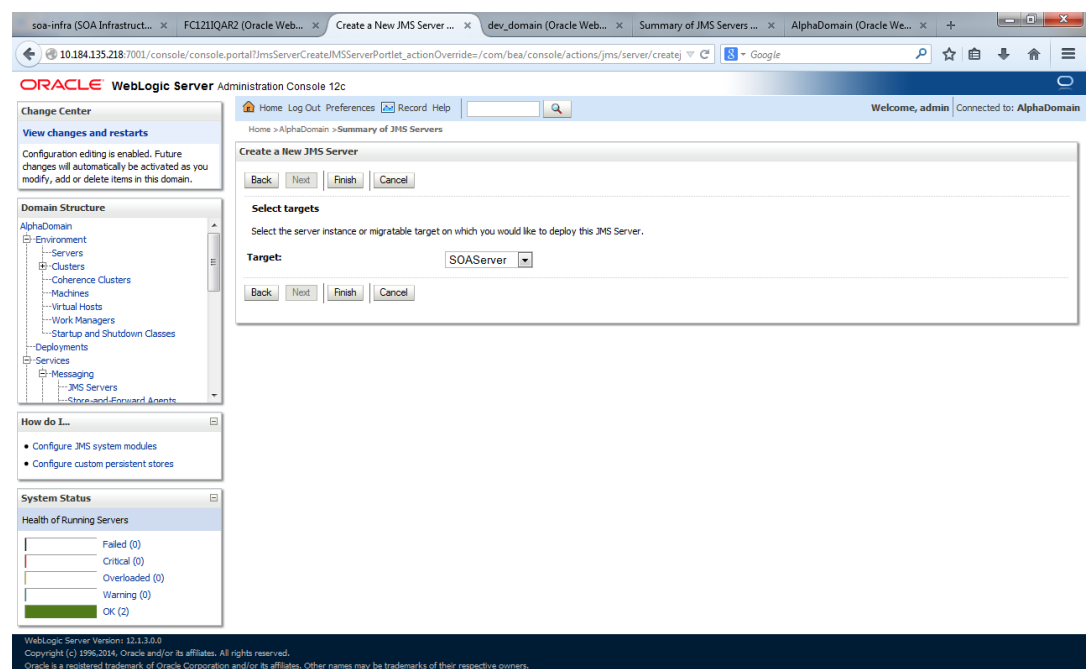


Figure 1-26 Summary of JMS Servers - Filtered

Oracle WebLogic Server Administration Console 12c

Home > AlphaDomain > Summary of JMS Servers

Messages

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

Summary of JMS Servers

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

Customize this table

JMS Servers (Filtered - More Columns Exist)

Name	Persistent Store	Target	Current Target	Health
BamAlertEngine.JmsServ	BamAlertEngine.JmsFileStore	BAMServer	BAMServer	
BamCQService.JmsServer	BamCQService.JmsFileStore_BAMServer	BAMServer	BAMServer	
BamReportCache.JmsServer	BamReportCache.JmsFileStore	BAMServer	BAMServer	
BamServer.JmsServer_BAMServer	BamServer.JmsFileStore_BAMServer	BAMServer	BAMServer	
BPM.JMServer	BPM.JmsFileStore	SOAServer	SOAServer	OK
FCUBS.JMSServer	SOA.JmsFileStore	SOAServer	SOAServer	OK
SOA.JMServer	SOA.JmsFileStore	SOAServer	SOAServer	OK
UMS.JMServer_auto_1	UMS.JmsFileStore_auto_1	BAMServer	BAMServer	
UMS.JMServer_auto_2	UMS.JmsFileStore_auto_2	SOAServer	SOAServer	OK

Showing 1 to 9 of 9 Previous | Next

- Go back to **Weblogic Console** and click on **JMS Modules** under **Domain Configurations - Services**.
- Click on **New**.

The **Summary of JMS Modules** screen is displayed.

Figure 1-27 Summary of JMS Modules

Oracle WebLogic Server Administration Console 12c

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

Home Page

Information and Resources

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

Domain Configurations

Domain

- Domain

Environment

- Servers
 - Server Templates
 - Migratable Targets
- Clusters
- 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

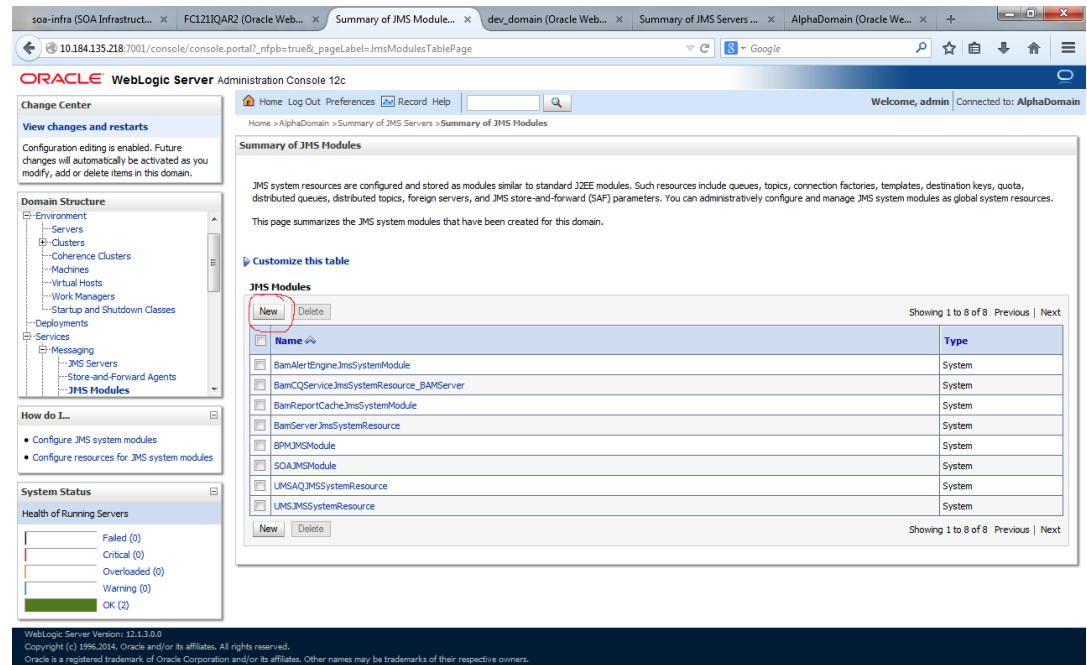
Diagnostics

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

Charts and Graphs

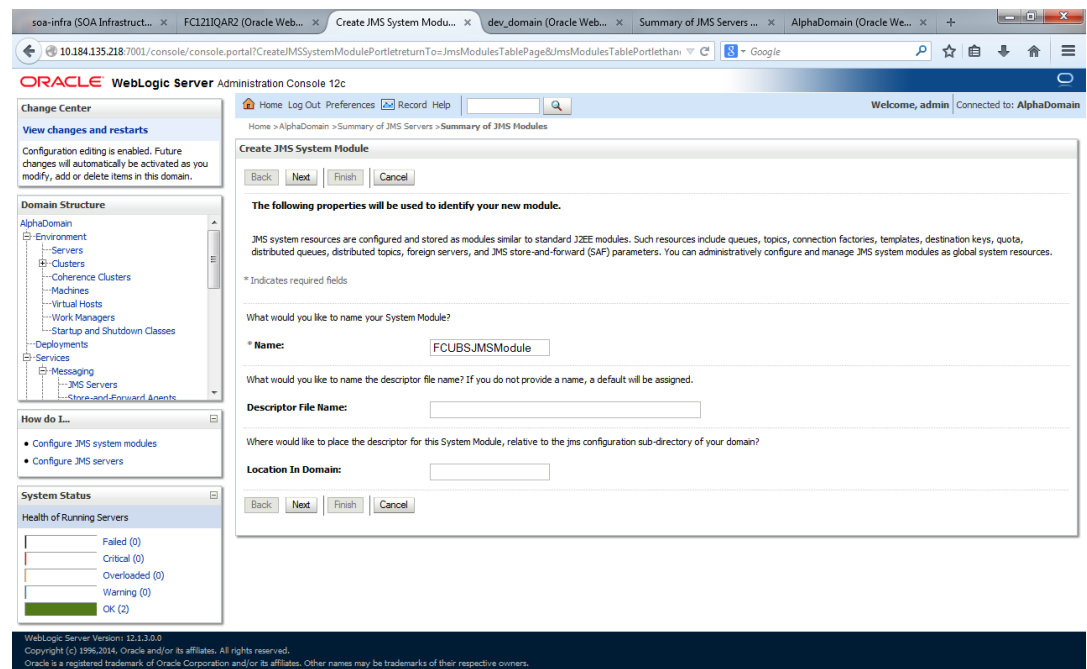
- Monitoring Dashboard

Figure 1-28 JMS Module - New



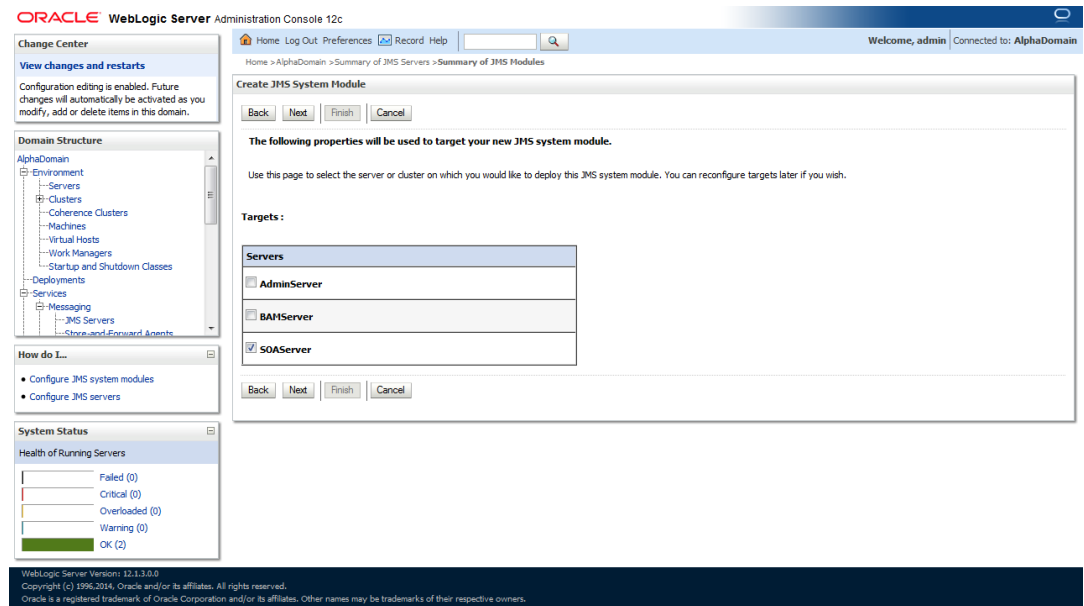
7. Create a JMS Module with the name **FCUBSJMSModule**. Click on **Next**.
The **Create JMS System Module** screen is displayed.

Figure 1-29 Create JMS System Module



8. Select the **Target** as **SOAServer** and click on **Finish**.
The **Create JMS System Module - Select Target** screen is displayed.

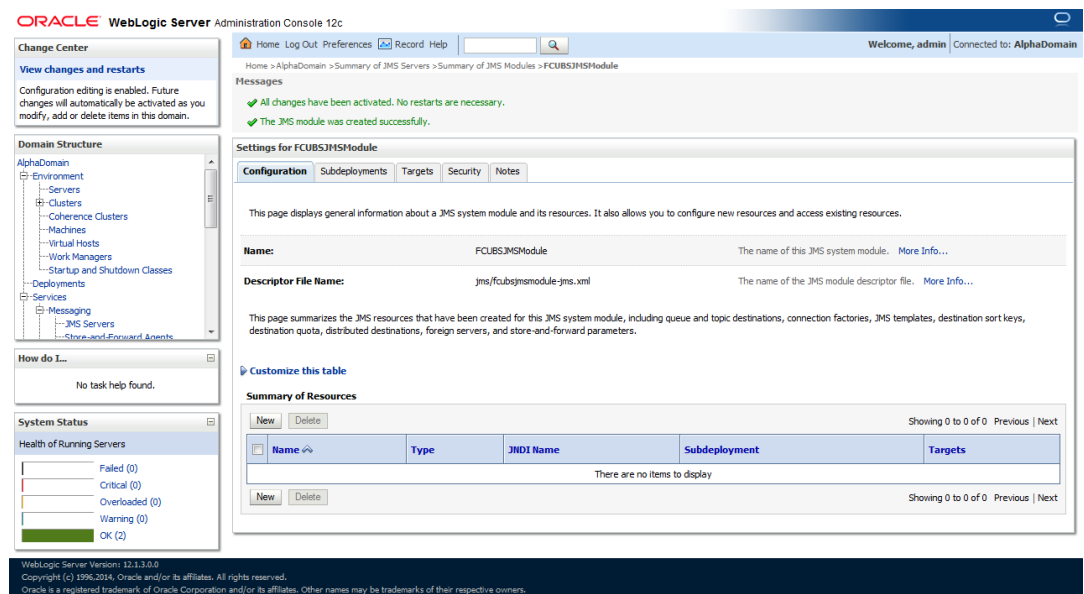
Figure 1-30 Create JMS System Module - Select Target



9. After the click on **Finish**, two messages are displayed on the **Summary of JMS Modules** screen.

The **Summary of JMS Modules - Messages** screen is displayed.

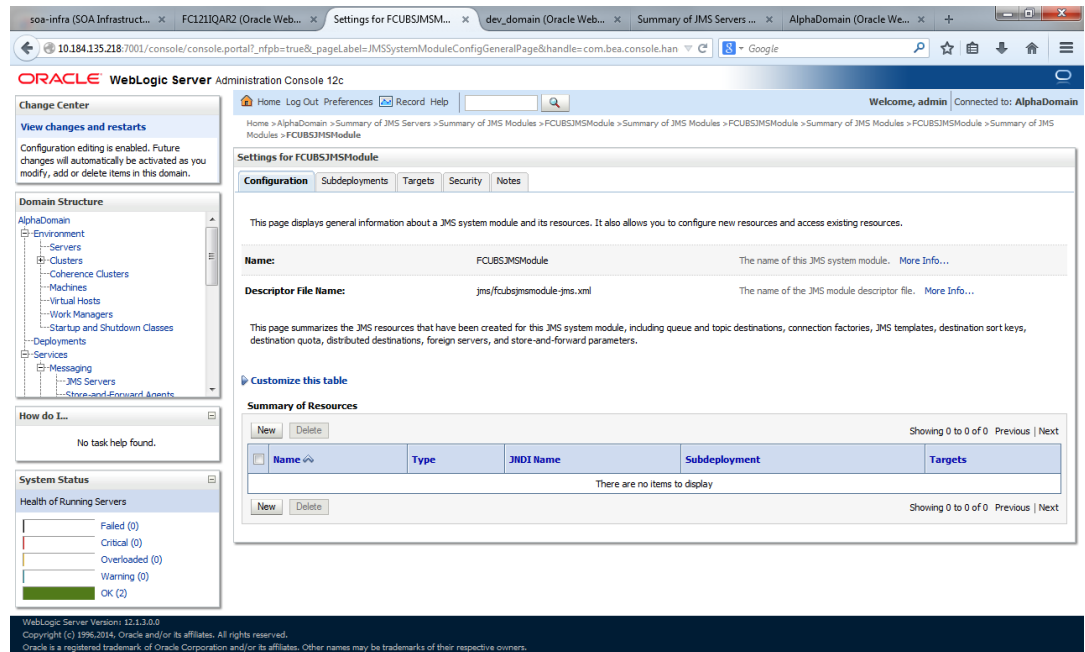
Figure 1-31 Summary of JMS Modules - Messages



10. Go back to **JMS Modules**, click on **FCUBSJMSModule** and click **New**.

The **Settings for FCUBSJMSModule** screen is displayed.

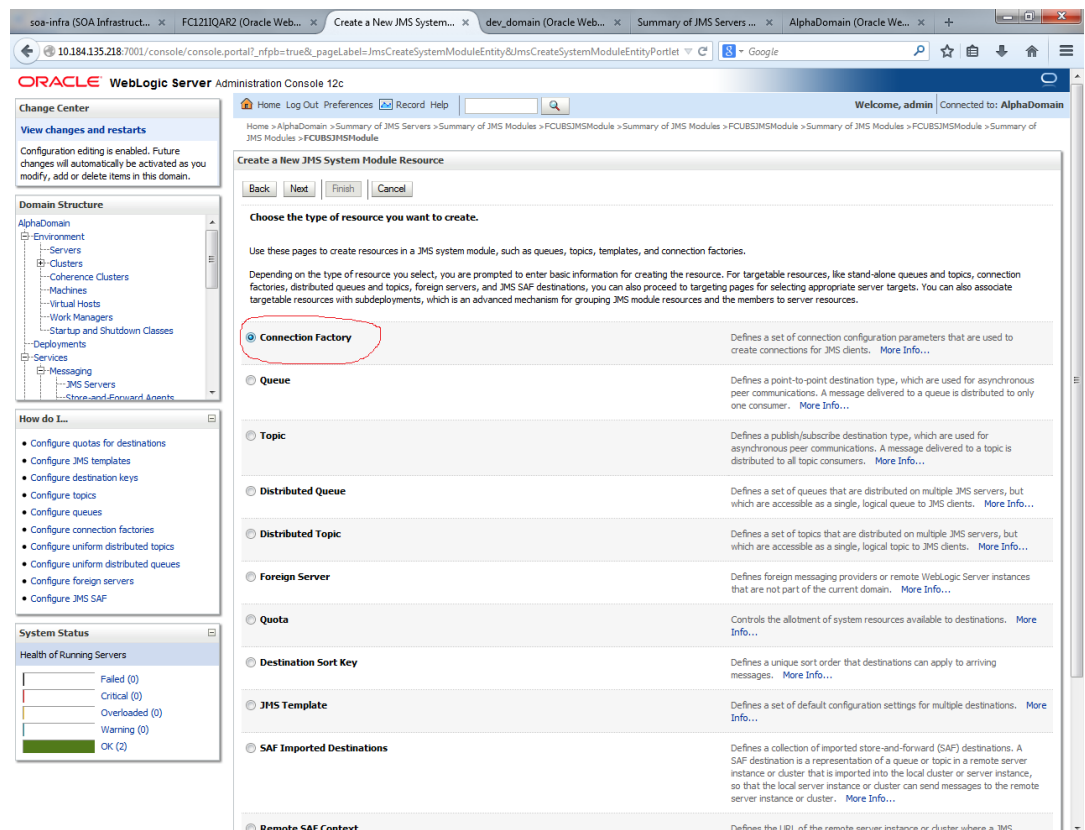
Figure 1-32 Settings for FCUBSJMSModule



11. On the **Create a New JMS System Module Resource** screen, select **Connection Factory** and click **Next**.

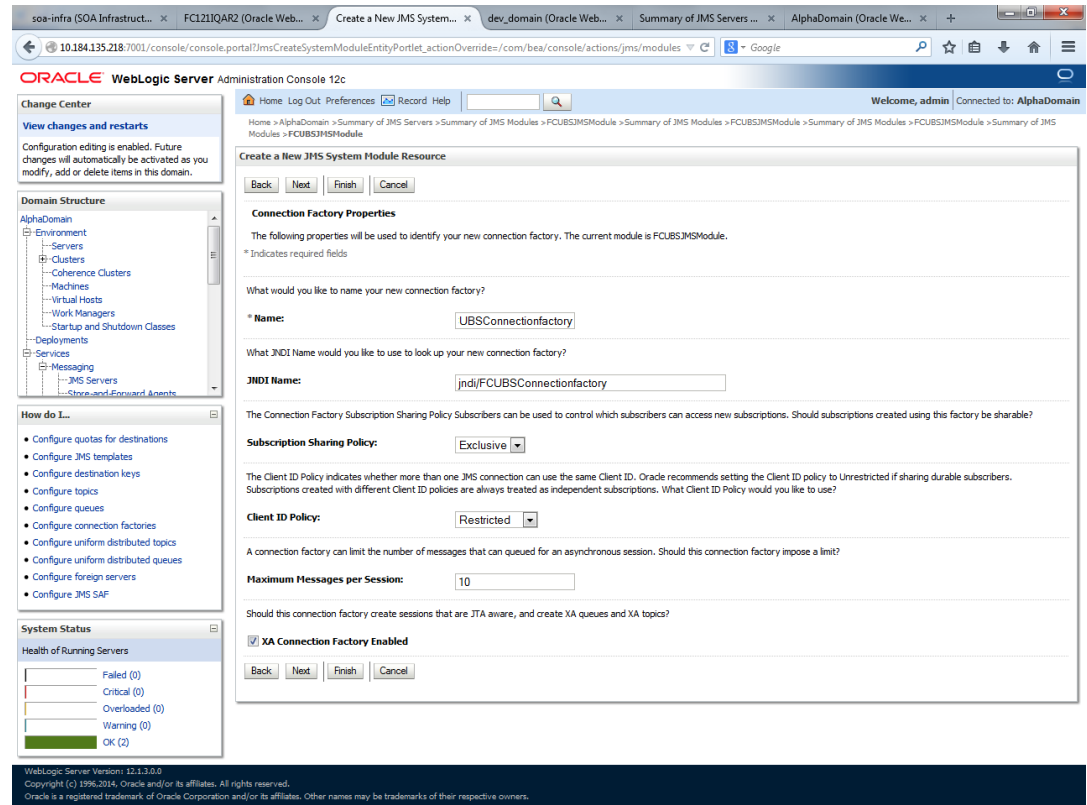
The **Create a New JMS System Module Resource** screen is displayed.

Figure 1-33 Create a New JMS System Module Resource



12. Create the the connection factory with the below Names and click **Next**.
The **Connection Properties** screen is displayed.

Figure 1-34 Create a New JMS System Module Resource - Connection Properties



13. Select **Advanced Targeting**, click on **Create New Sub Deployment** with the below Name, and click **OK**.

The **Create a New JMS System Module Resource - Advanced Targeting** screen is displayed.

Figure 1-35 Create a New JMS System Module Resource - Advanced Targeting

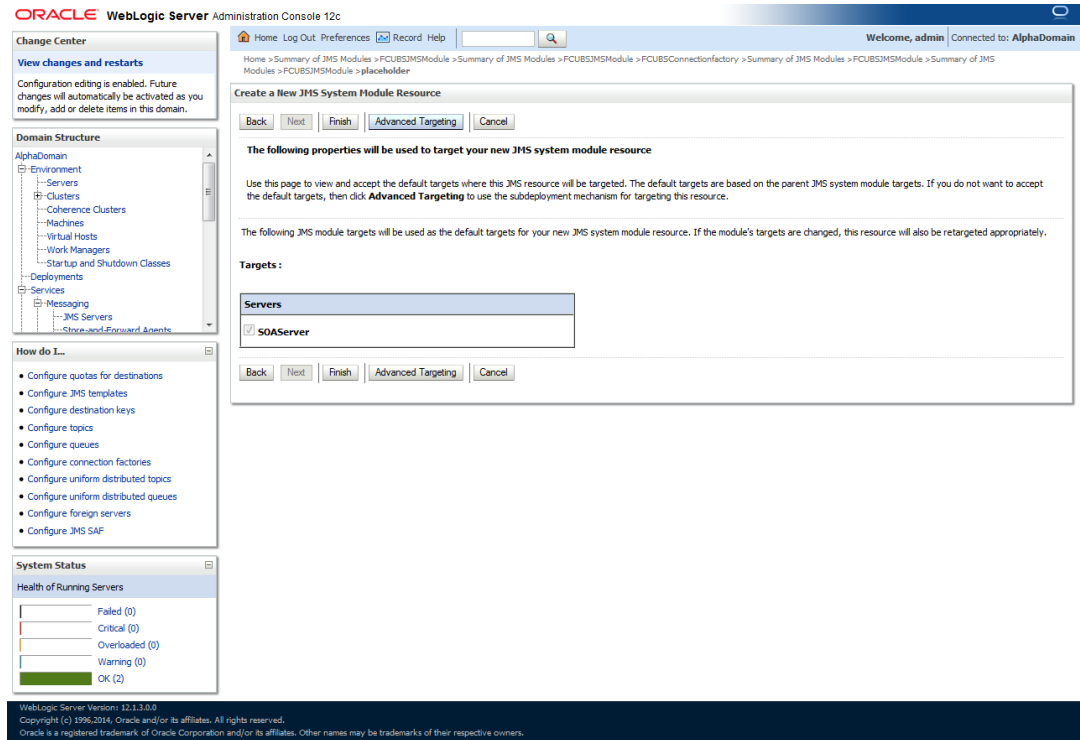


Figure 1-36 Create a New Subdeployment

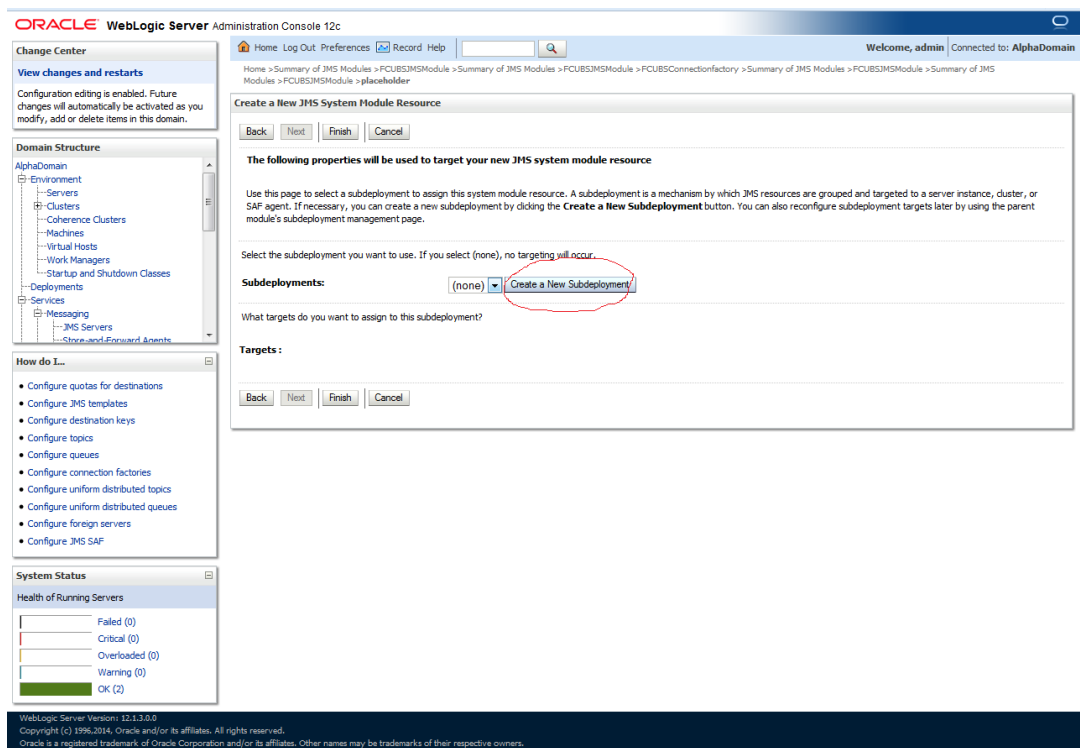


Figure 1-37 Create a New Subdeployment - Subdeployment Properties

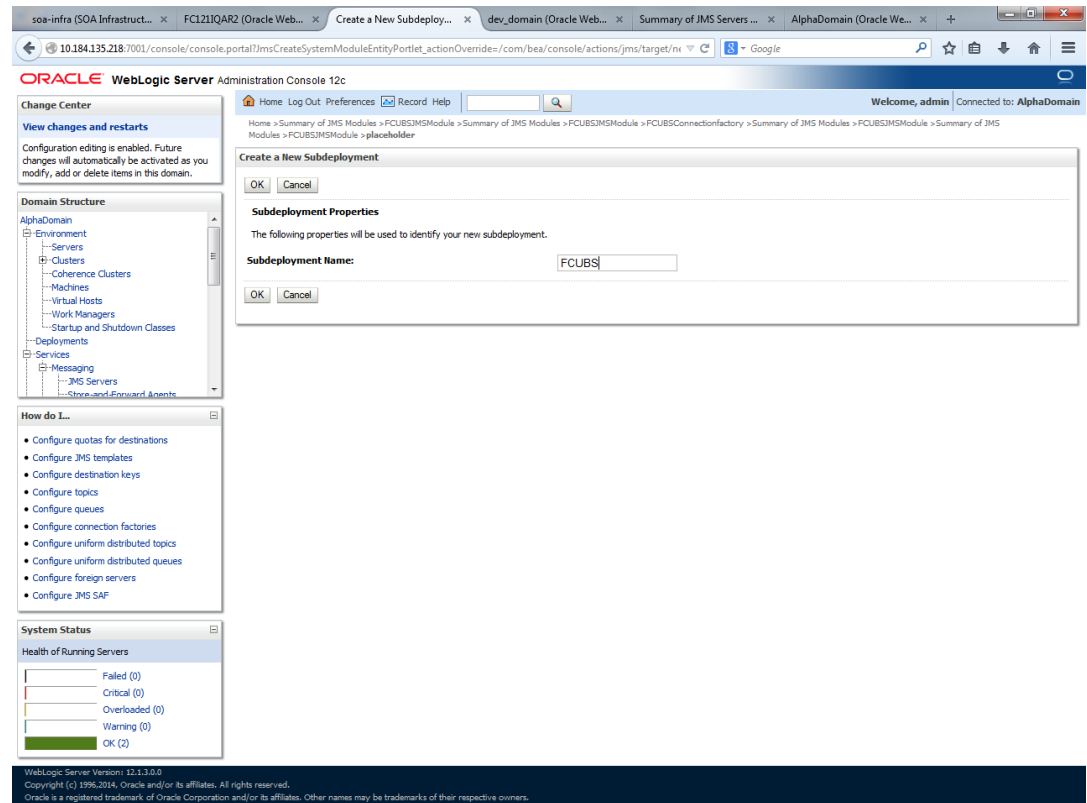
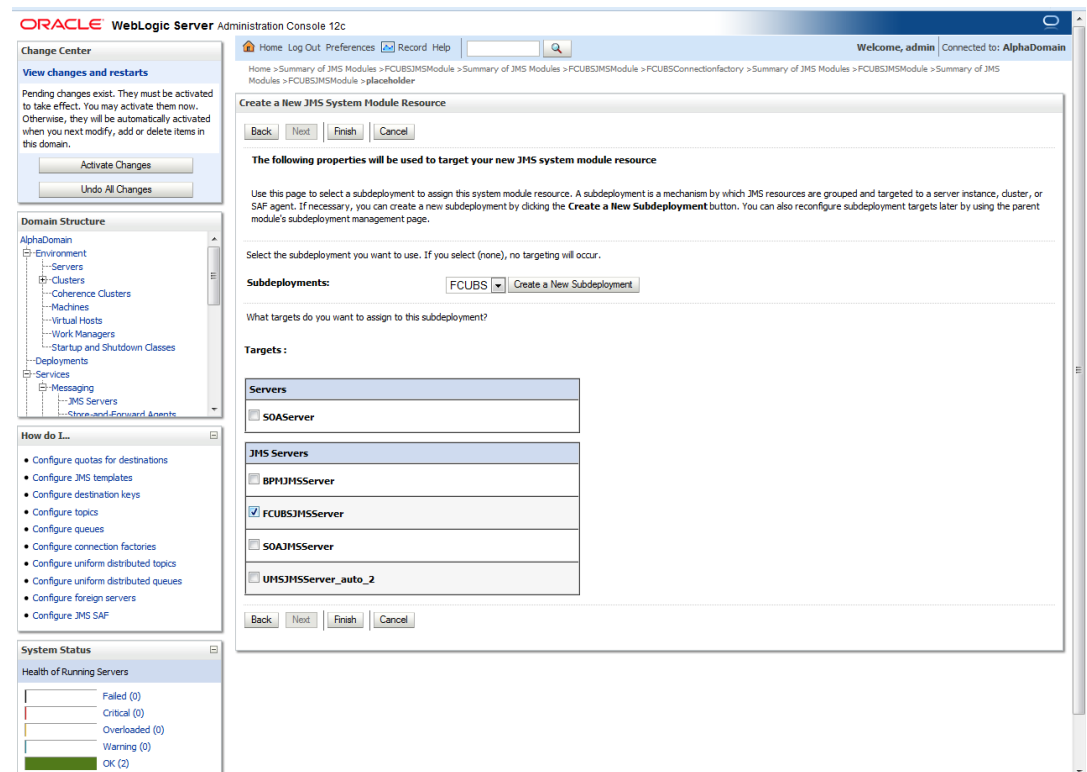


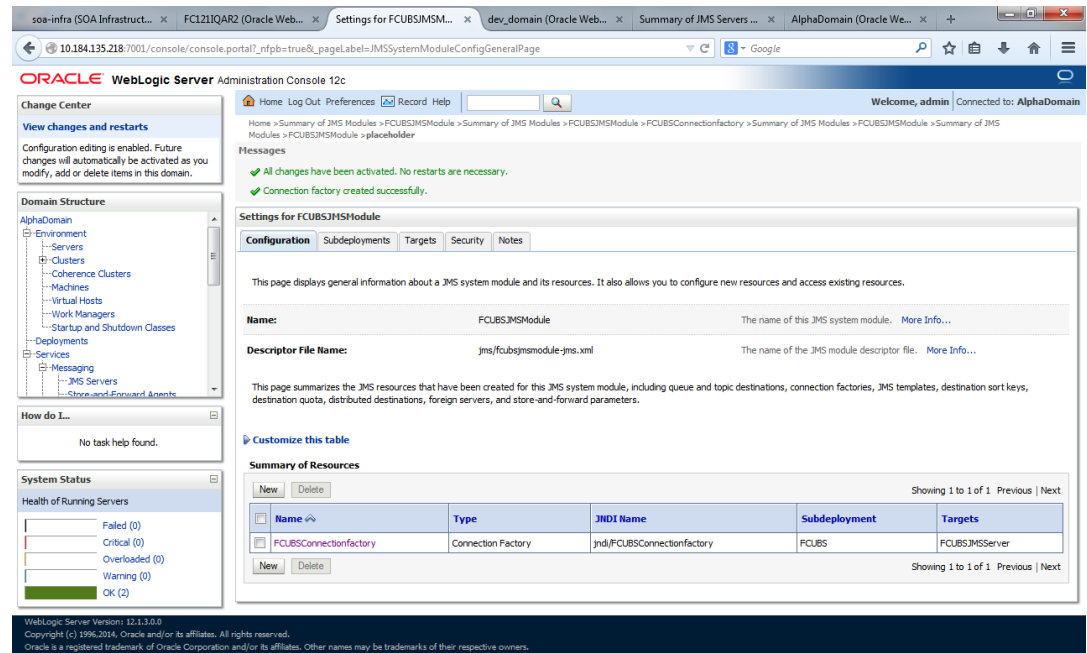
Figure 1-38 Create a New Subdeployment - Targets



14. After the click on **Finish**, two messages are displayed on the **Settings for FCUBSJMSModule** screen.

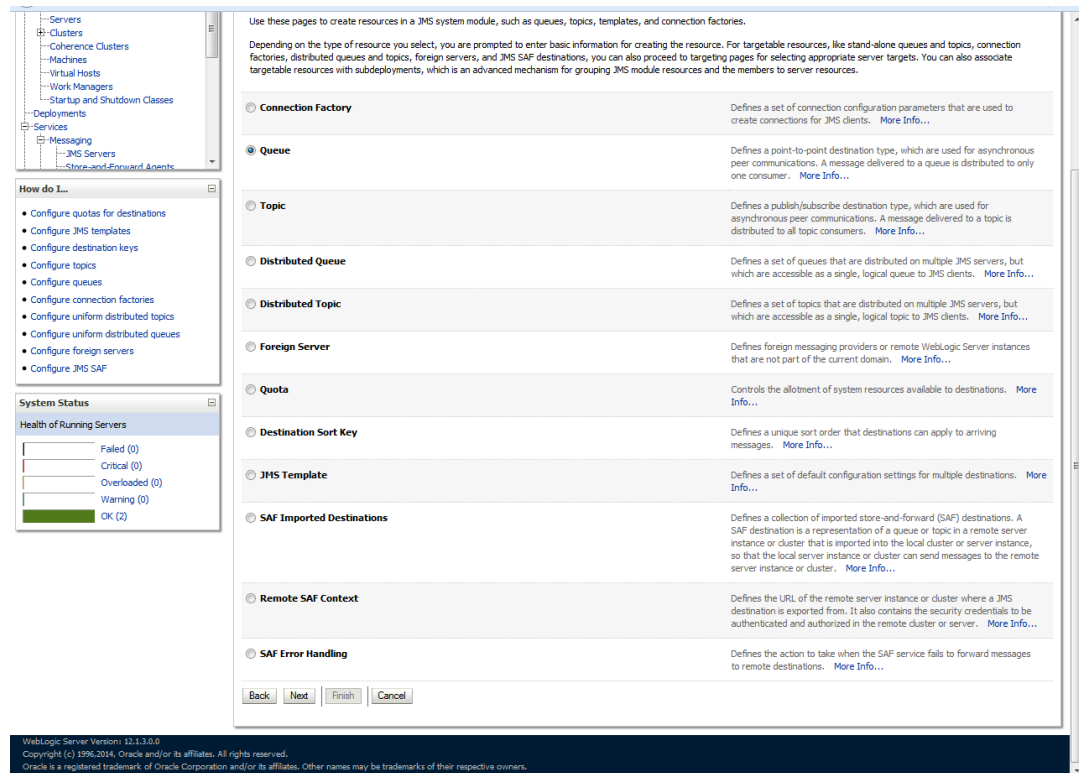
Settings for FCUBSJMSModule - Messages screen is displayed.

Figure 1-39 Settings for FCUBSJMSModule - Messages



15. Go back to **Weblogic Console**, click on **JMS Modules**, click **New**, then select **Queue**, and click on **Next**.

The **Create Resources in JMS System Module - Queue** screen is displayed.

Figure 1-40 Create Resources in JMS System Module - Queue

16. Create Queue with **Name** as NOTIFY_DEST_QUEUE, **JNDI name** as jms/NOTIFY_DEST_QUEUE and click **Next**.

The **JMS Destination Properties** screen is displayed.

Figure 1-41 JMS Destination Properties

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, admin Connected to: AlphaDomain

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

Create a New JMS System Module Resource

Back Next Finish Cancel

JMS Destination Properties

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

* Indicates required fields

* Name: NOTIFY_DEST_QUEL

JNDI Name: ms/NOTIFY_DEST_QUEUE

Template: None

Back Next Finish Cancel

Change Center

View changes and restarts

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

Domain Structure

AlphaDomain

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

How do I...

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

System Status

Health of Running Servers

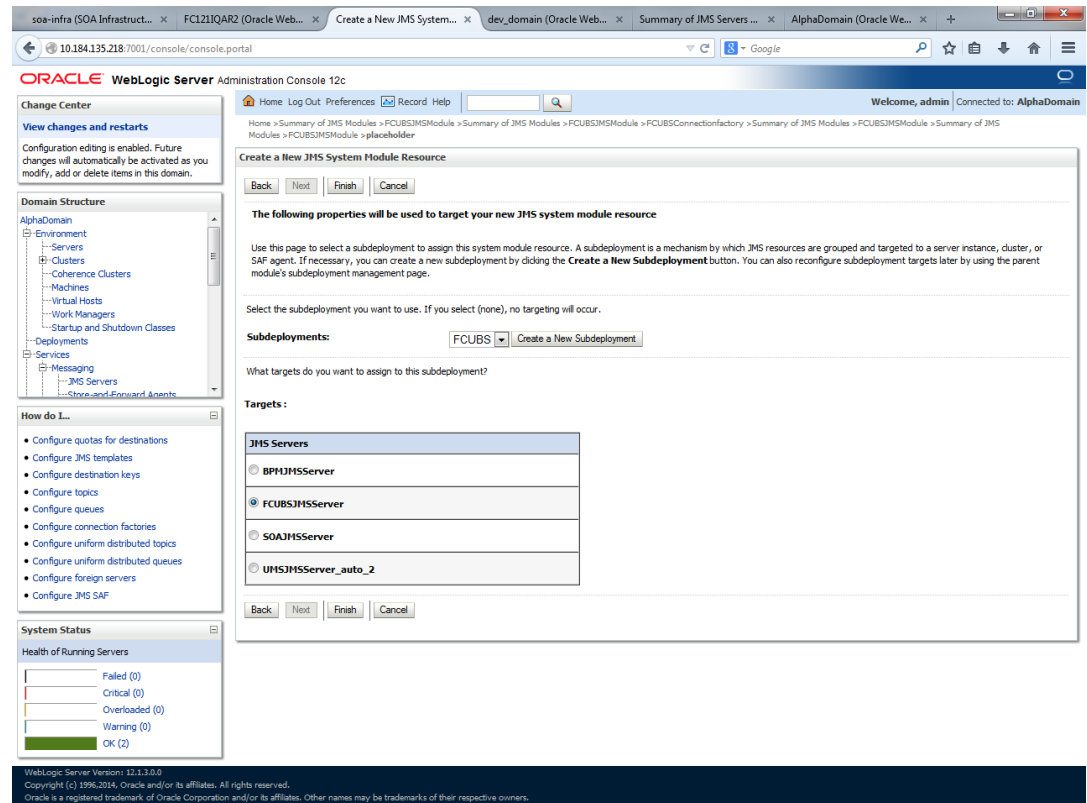
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (2)

WebLogic Server Version: 12.1.3.0.0
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17. Select the **Subdeployments** from the dropdown list we created earlier, select the **Targets** as JMS Servers, and click on **Finish**.

The **Subdeployments and Select Targets** screen is displayed.

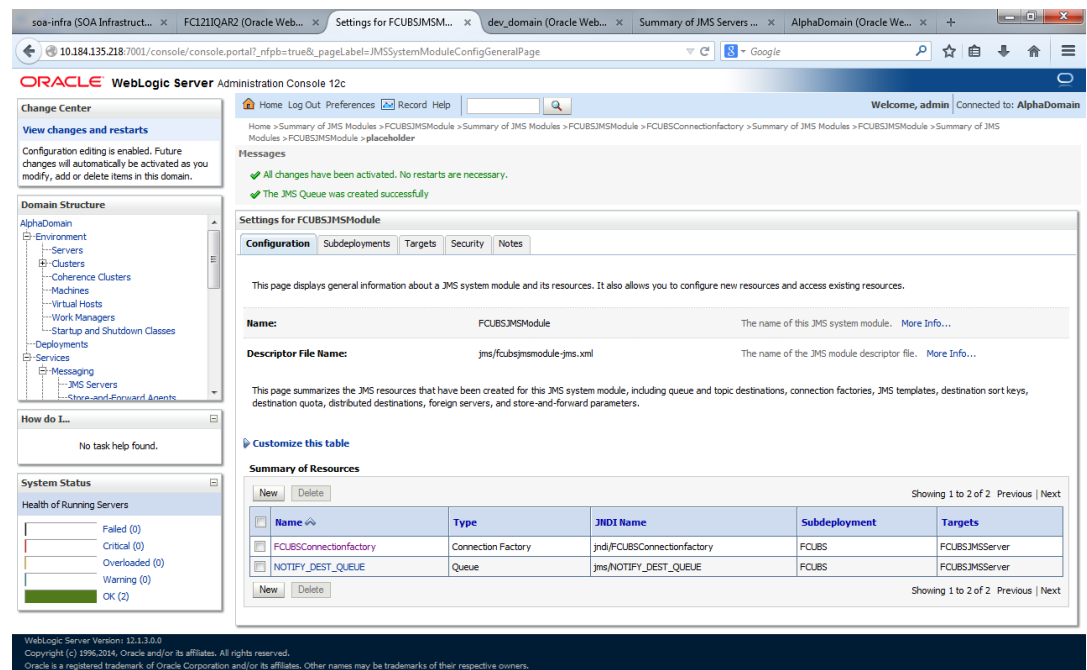
Figure 1-42 Subdeployments and Select Targets



18. After the click on **Finish**, two messages are displayed on the **Settings for FCUBSJMSModule** screen.

Settings for FCUBSJMSModule - Messages screen is displayed.

Figure 1-43 Summary of Resources - Messages



19. 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
steps 8-9)
20. Go to **Weblogic Console**, click **Deployment**, and select **JMS Adapter**.
21. Click **Configuration** tab, select **Outbound Connection Pools**.

The **Settings for JMSAdapter** screen is displayed.

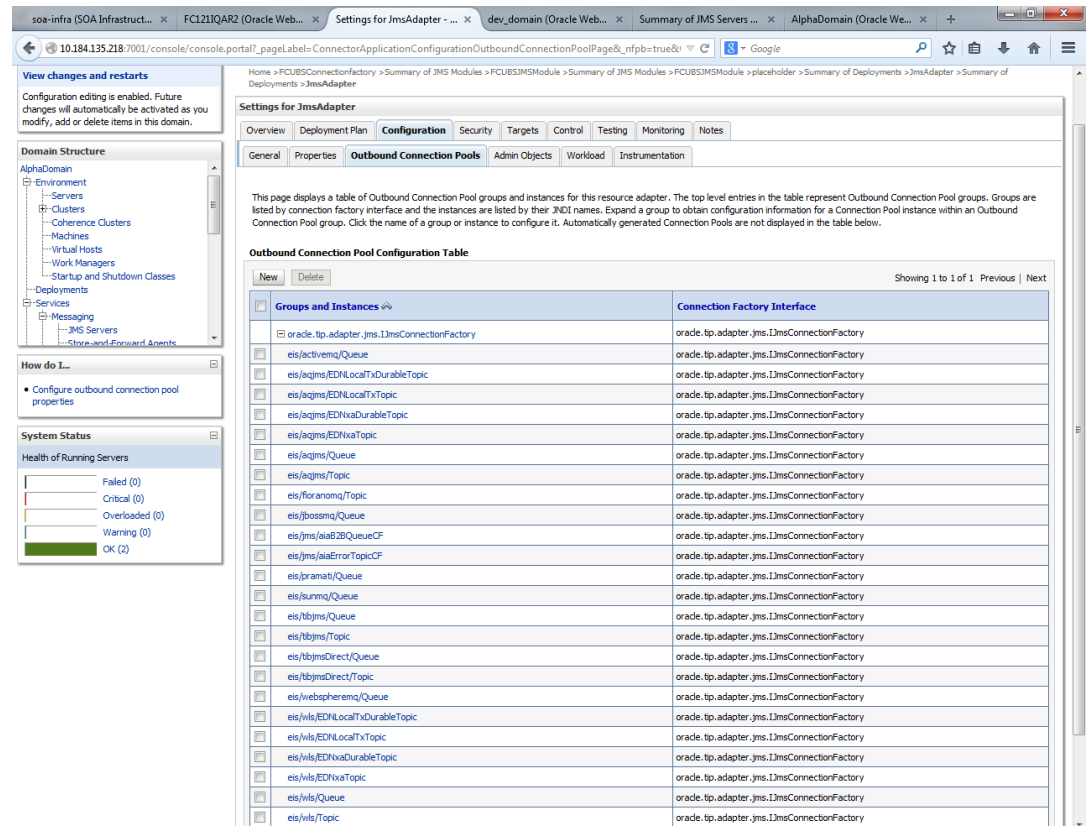
Figure 1-44 Settings for JMSAdapter

Adapter Name	Status	Health	Application	Server	Port
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
em	Active	OK	Enterprise Application	AdminServer	400
FCUBSJMSApp (12.1.0.0.0)	Active	Warning	Enterprise Application	SOAServer	600
FileAdapter	Active	OK	Resource Adapter	SOAServer	321
frevo	Active	OK	Enterprise Application	SOAServer	100
FileAdapter	Active	OK	Resource Adapter	SOAServer	325
GWWebServices (12.1.0.0.0)	Active	OK	Enterprise Application	SOAServer	600
DEWorldAdapter	Installed		Resource Adapter		333
JmsAdapter	Active	OK	Resource Adapter	SOAServer	323
LdapAdapter (JmsAdapter, Level 1, 19 of 46)	Installed		Resource Adapter		332
MQSeriesAdapter	Active	OK	Resource Adapter	SOAServer	327
MSMQAdapter	Installed		Resource Adapter		334
OAAPredictionService	Active	OK	Enterprise Application	SOAServer	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
OracleBamAdapter	Installed		Resource Adapter		329
OracleSPMBACServerApp	Active	OK	Enterprise Application	SOAServer	384
OracleSPMComposerRolesApp	Active	OK	Enterprise Application	SOAServer	382
OracleSPMProcessRolesApp	Active	OK	Enterprise Application	SOAServer	381
OracleSPMWorkspace	Active	OK	Enterprise Application	SOAServer	383
SAPAdapter	Installed		Resource Adapter		335
SimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
soa-infra	Active	OK	Enterprise Application	SOAServer	350
soa-webapps	Active	OK	Enterprise Application	SOAServer	360

22. Click on **New**.

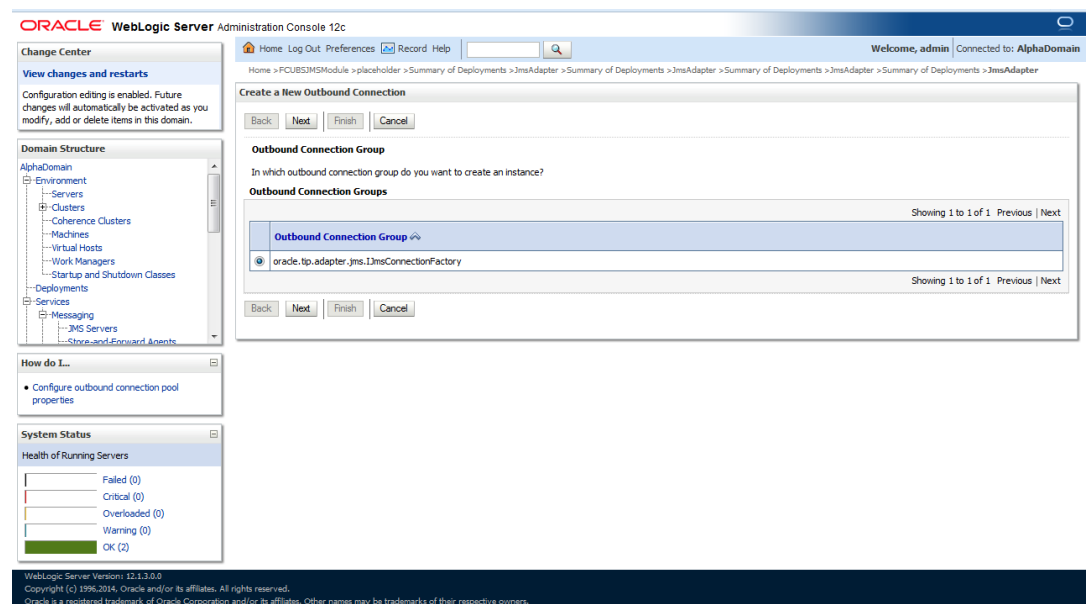
The **Create a New Outbound Connection** screen is displayed.

Figure 1-45 Create a New Outbound Connection



- 23.** Select the **Outbound Connection Group** and click **Next**.

Figure 1-46 Outbound Connection Group



24. Provide the JNDI name as **eis/Queue/Notif** and click **Finish**.

The **Create a New Outbound Connection - JNDI Name** screen is displayed.

Figure 1-47 Create a New Outbound Connection - JNDI Name

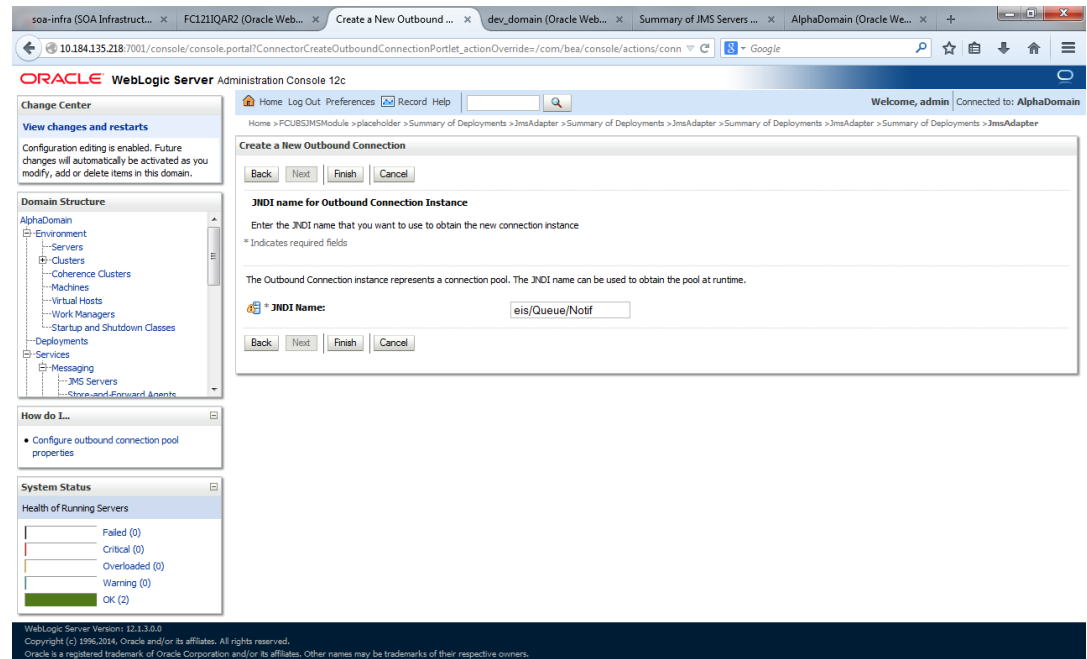


Figure 1-48 Outbound Connection Pool Configuration Table

10.184.135.218 /pool:ConnectorApplicationConfigurationConnectionPoolPage&rfpb=true&

Clusters
Coherence Clusters
Machines
Virtual Hosts
Work Managers
Startup and Shutdown Classes
Deployments
Services
Messaging
JMS Servers
Show and Expand Agents

How do I...
Configure outbound connection pool properties

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

listed by connection factory interface and the instances are listed by their JNDI names. Expand a group to obtain configuration information for a Connection Pool instance within an Outbound Connection Pool group. Click the name of a group or instance to configure it. Automatically generated Connection Pools are not displayed in the table below.

Outbound Connection Pool Configuration Table

New
Delete

Showing 1 to 1 of 1
Previous
Next

Groups and Instances	Connection Factory Interface
<div> <div> oracle.tp.adapter.jms.IJmsConnectionFactory </div> <div> <div> eis/activemq/Queue eis/ajcmis/EDNLocalTxDurableTopic eis/ajcmis/EDNLocalTxTopic eis/ajcmis/EDNNonDurableTopic eis/ajcmis/EDNNonTopic eis/ajcmis/Queue eis/ajcmis/Topic eis/foranmq/Topic eis/jbossmq/Queue eis/jms/jaas2/QueueCF eis/jms/jaasError/TopicCF eis/jrammq/Queue eis/Queue/Notif eis/summq/Queue eis/tbjms/Queue eis/tbjms/Topic eis/tbjmsDirect/Queue eis/tbjmsDirect/Topic eis/webshere/mq/Queue eis/wls/EDNLocalTxDurableTopic eis/wls/EDNLocalTxTopic eis/wls/EDNNonDurableTopic eis/wls/EDNNonTopic eis/wls/Queue eis/wls/Topic </div> </div> </div>	<div> <div> oracle.tp.adapter.jms.IJmsConnectionFactory </div> </div>

New
Delete

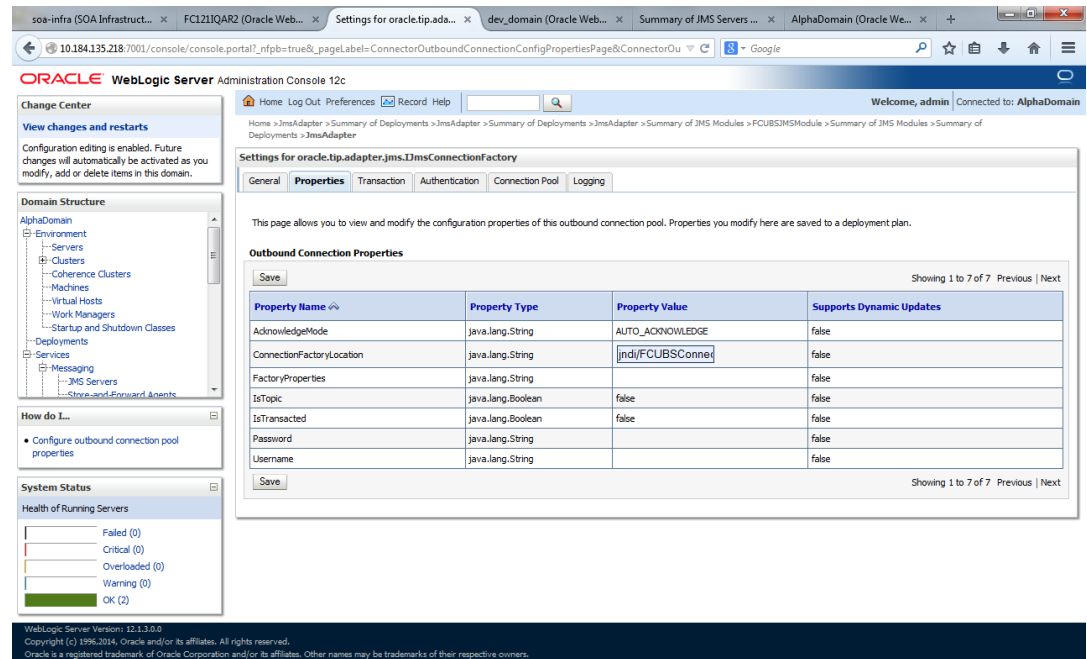
Showing 1 to 1 of 1
Previous
Next

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Oracle and the WebLogic Server logo are trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

25. Click on the Outbound connection pool with **eis/Queue/Notif** and enter the connection factory location as **indi/FCUBSConnectionfactory**, and press enter.

The **Settings for oracle.tip.adapter.jms.IJmsConnectionFactory** screen is displayed.

Figure 1-49 Settings for oracle.tip.adapter.jms.IJmsConnectionFactory

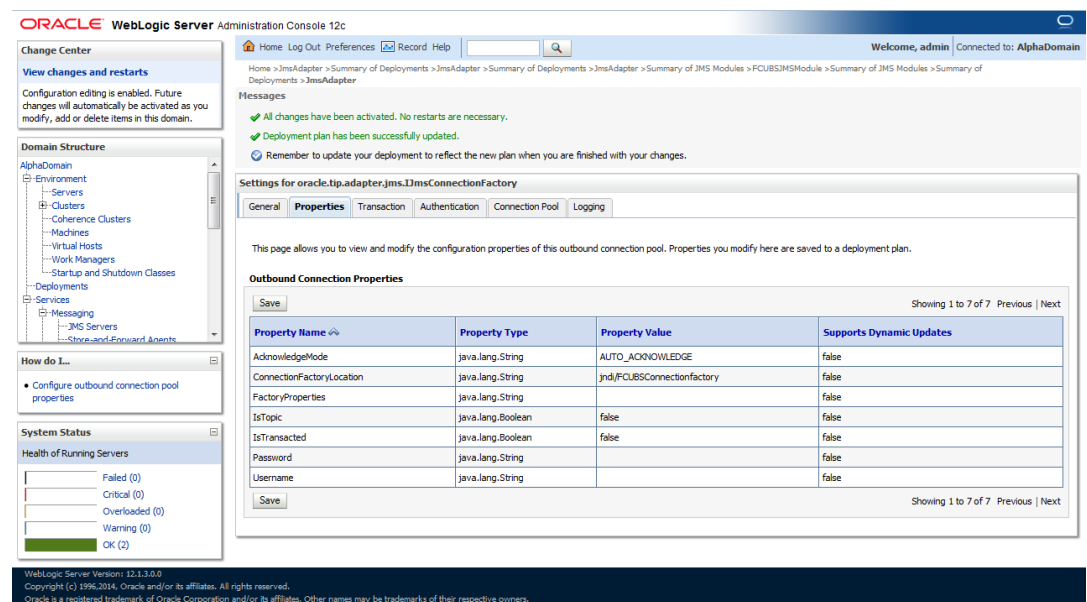


26. Click on **Save**.

27. After the click on **Save**, two messages are displayed on the **Settings for oracle.tip.adapter.jms.IJmsConnectionFactory** screen.

Settings for oracle.tip.adapter.jms.IJmsConnectionFactory - Messages screen is displayed.

Figure 1-50 Settings for oracle.tip.adapter.jms.IJmsConnectionFactory - Messages



28. Go to **Weblogic Console**, click **Deployment**, and select **JMS Adapter**.

Figure 1-51 Deployments

10.184.135.218:7001/console/console.portal?_rfpb=true&_pageLabel=AppDeploymentsControlPage

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

Customize this table

Deployments

Install Update Delete Start Stop

Showing 1 to 46 of 46 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
B2BUI	Prepared	OK	Enterprise Application	SOAServer	313
B2BComposer	New		Enterprise Application	BAMServer	500
B2BService	New		Enterprise Application	BAMServer	300
B2BServer	New		Enterprise Application	BAMServer	400
B2BSPMComposer	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
Jms	Active	OK	Enterprise Application	AdminServer	400
FCBUSAppUIT (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

29. Click on **Update**.

Update Application Assistant screen is displayed.

Figure 1-52 Update Application Assistant

10.184.135.218:7001/console/console.portal?AppApplicationUpdatePortletreturnTo=AppDeploymentsControlPage&AppDeploymentsControlPage

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

How do I...

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

System Status

Health of Running Servers

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

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/12c/3/soa/soa/connectors/Plan1.xml [Change Path](#)

☒ Redeploy this application using the following deployment files:

Source path: /scratch/app/oracle/product/fmw/12c/3/soa/soa/connectors/JmsAdapter.rar [Change Path](#)

Deployment plan path: /scratch/app/oracle/product/fmw/12c/3/soa/soa/connectors/Plan1.xml [Change Path](#)

Back Next Finish Cancel

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30. Click on **Next** and **Finish**.
31. After the click on **Finish**, two messages are displayed on the **Summary of Deployments** screen.

Summary of Deployments - Messages screen is displayed.

Figure 1-53 Summary of Deployments - Messages

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of Deployments" and includes a "Messages" section with two green checkmarks indicating successful deployment. Below this is a table of deployed applications and modules.

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-var	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

32. Create the Outbound Connection Ppool with the **eis/wls/Queue** name in the Deployments using Connection Factory **jndi/FCUBSConnectionFactory**.

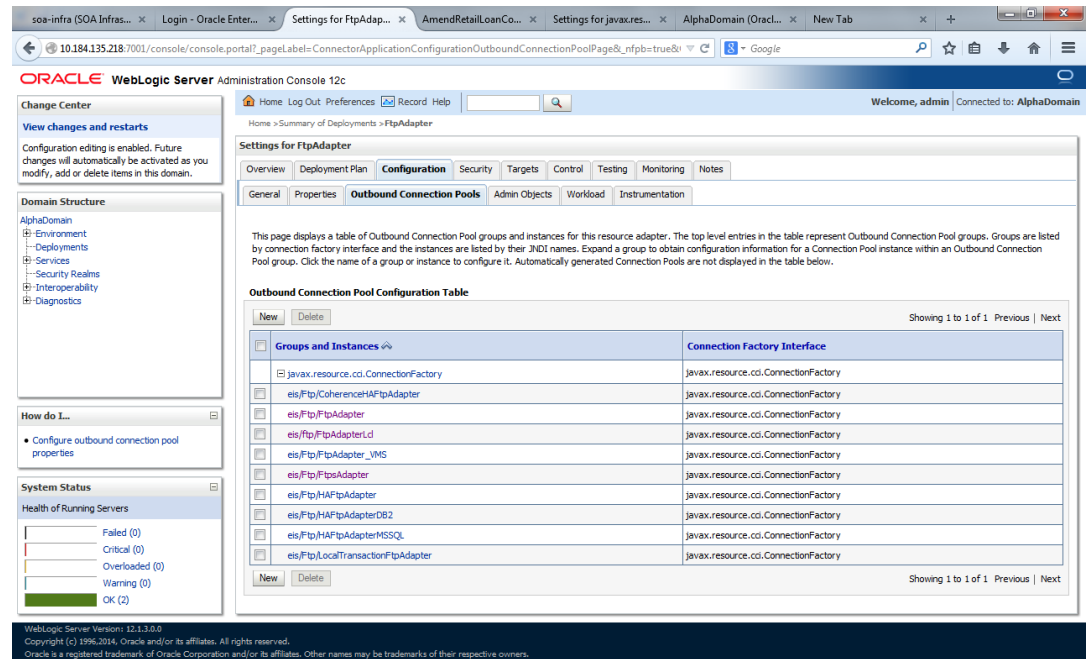
1.2.7 Configure FTP Adapter

This topic explains to configure FTP Adapter.

1. Login to **Weblogic Console**, click **Deployment**, and select **FTP Adapter**.
2. Click the **Configurations** tab and select **Outbound Connections Pool**.

The **Outbound Connections Pool** screen is displayed.

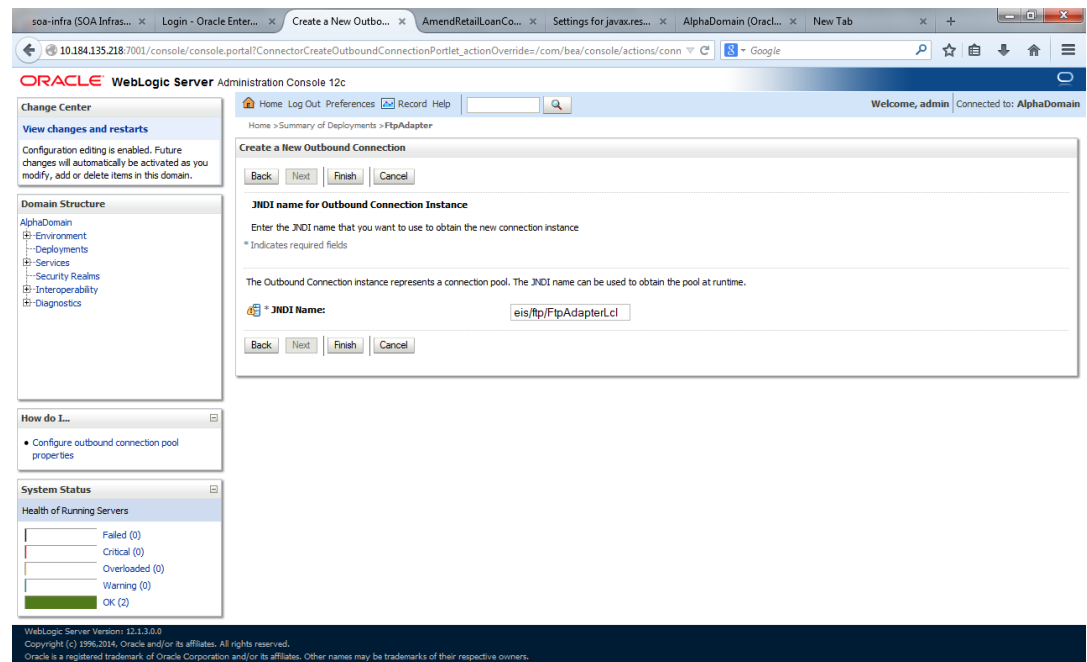
Figure 1-54 Outbound Connections Pool



3. Click on **New**.

The **Create a New Outbound Connection** screen is displayed.

Figure 1-55 Create a New Outbound Connection



4. Click on **Finish** and **Save**.

1.2.8 BIP Interactive reports configuration

This topic explains the configuration of BIP Interactive Reports.

1. Login to the BIP domain console, `http://<hostname>:<port>/<console>`.
2. To add the FCJCustomProvider, refer the steps from [/Custom Provider Configuration](#).
3. After adding, navigate to security **realms**, then **myrealm**, and then **Users and Groups** and check if the users from the schema are displayed in the **Users** tab, and Roles from the schema are displayed under the **Groups** Tab.

The **Users and Groups** screen is displayed.

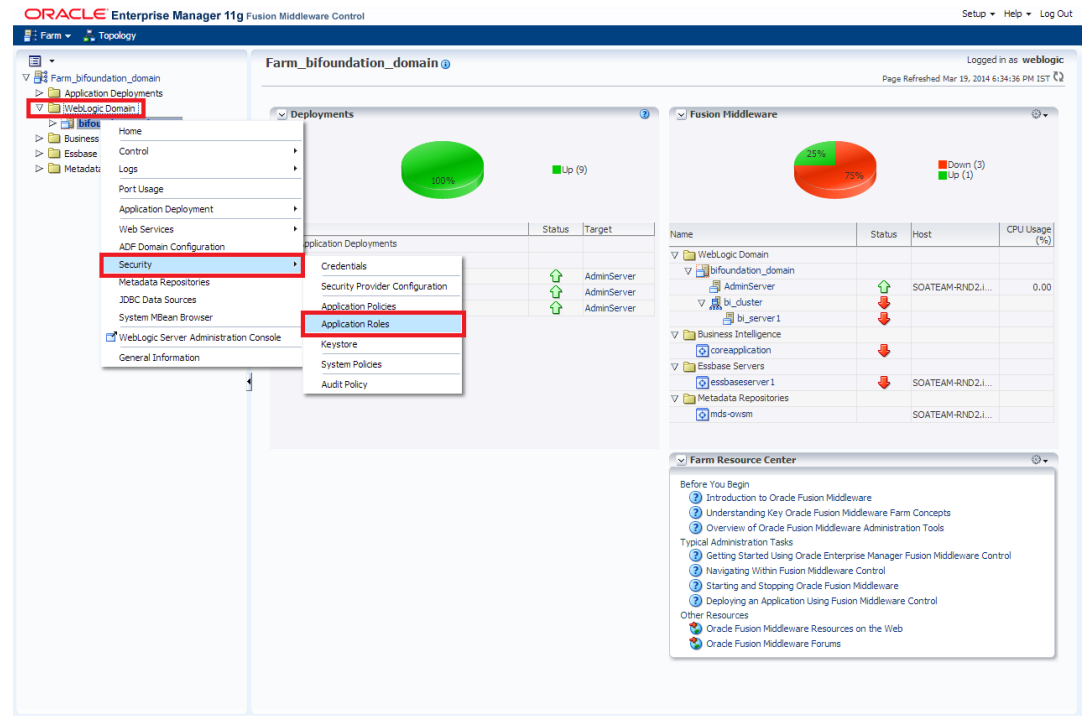
Figure 1-56 Settings for myrealm - Users and Groups

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Settings for myrealm' and has tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'. The 'Users and Groups' tab is active, and the 'Users' sub-tab is selected. Below the tabs, there is a message: 'This page displays information about each user that has been configured in this security realm. Some results are not displayed because there are too many matches. Please customize this table to specify more specific criteria.' Below this message is a 'Customize this table' link. The main content is a table of users with the following columns: Name, Description, and Provider. The table lists 10 users, all of whom are provided by 'FCJCustomProvider'. The footer of the console shows 'WebLogic Server Version 10.3.6.0' and copyright information.

Name	Description	Provider
000ANVT1	Default Admin User 1	FCJCustomProvider
11111RM_3	Siveta	FCJCustomProvider
11111RM_4	RM	FCJCustomProvider
112233	Default Admin User 10	FCJCustomProvider
121212	Default Admin User 10	FCJCustomProvider
123456	SANKER GS	FCJCustomProvider
141414	Default Admin User 10	FCJCustomProvider
1529A03	Kumar	FCJCustomProvider
1M20862	BALA	FCJCustomProvider
20862A1	Bala	FCJCustomProvider

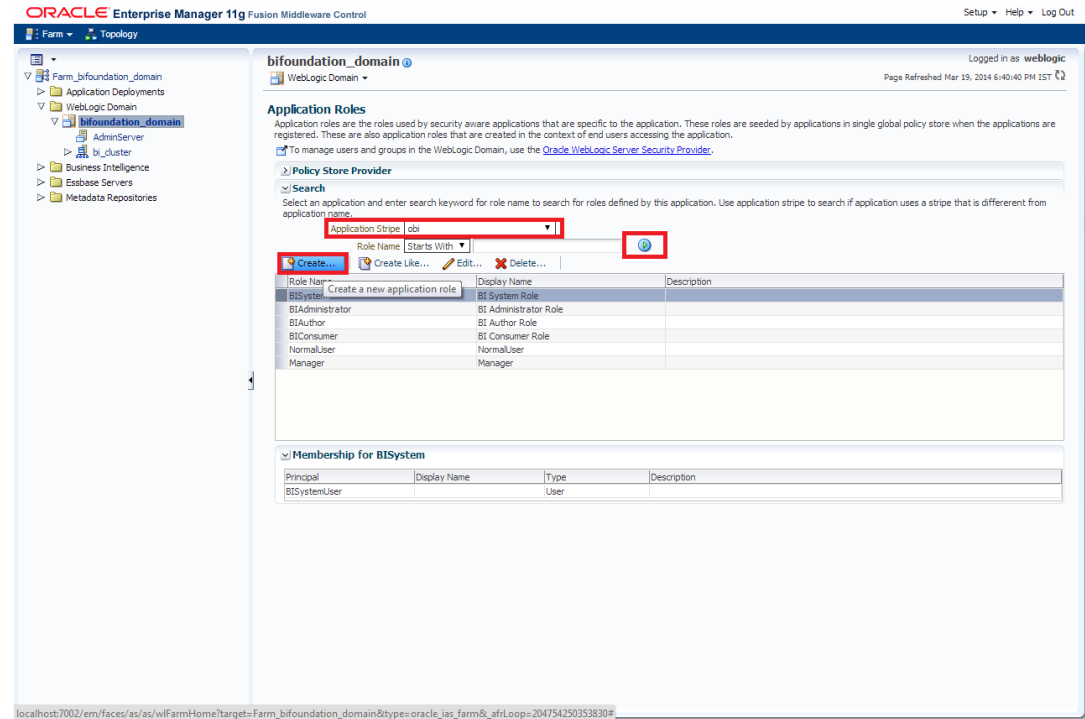
4. Login to the Enterprise Manager (em) `http://<hostname>:<port>/em`.
 - Right click on the domain (in which BI suite is installed) under the WebLogic domain.
 - Go to security and then navigate to application roles.
 5. Navigate to the **Application Roles** screen as mentioned in below screenshot.
- The **Application Roles** screen is displayed.

Figure 1-57 Application Roles



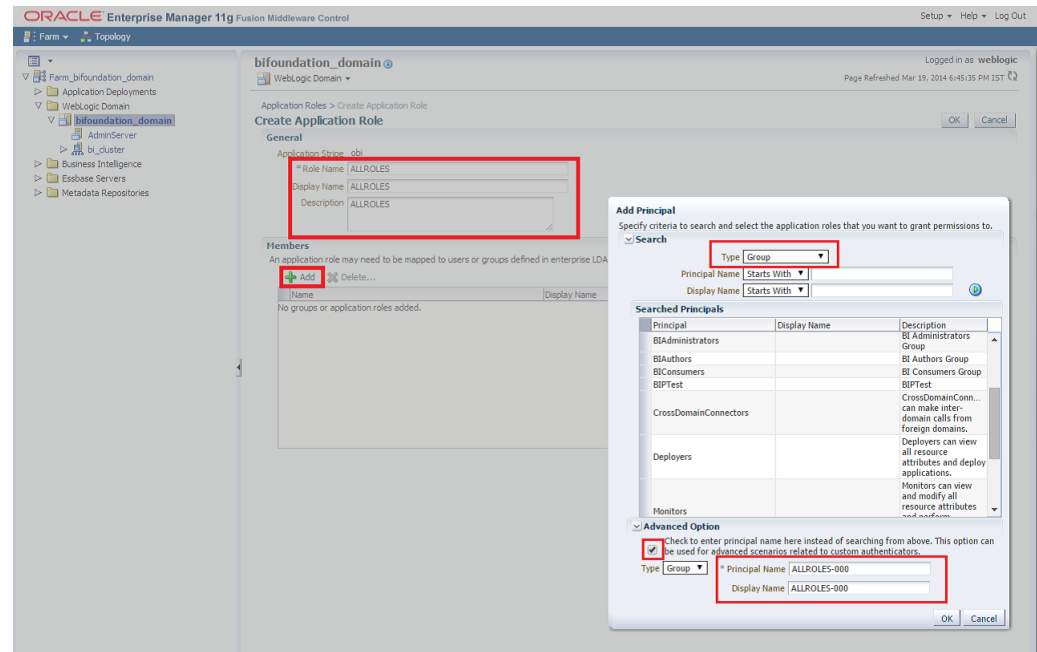
6. After navigating to the **Application Roles** screen, specify the following details.
 - Select the Application Stripe as **obi** from the dropdown list.
 - Click on the **Search** button.
 - Click on **Create** button to add a role.
7. After clicking on **Create** button, specify the fields.
The **Create Application Role** screen is displayed.

Figure 1-58 Create Application Role



8. On the **Create Application Role** screen, specify the following details.
 - a. Enter the Role name (mandatory), Display name (optional) and, Description (optional).
 - b. Click on the **Add** button.
 - c. Select **Type** as **Group** from the dropdown list in the Add Principal pop-up window.
 - d. In the **Advanced Option** check the checkbox and 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.
 - Enter the Principal Name (mandatory), which is the role present in the FCUBS (ex: ALLROLES-000, ADMINROLE-000), Display Name (optional).
 - e. Click on the **OK** button in the **Add Principal** pop-up window and also on the **Create Application Role** screen.

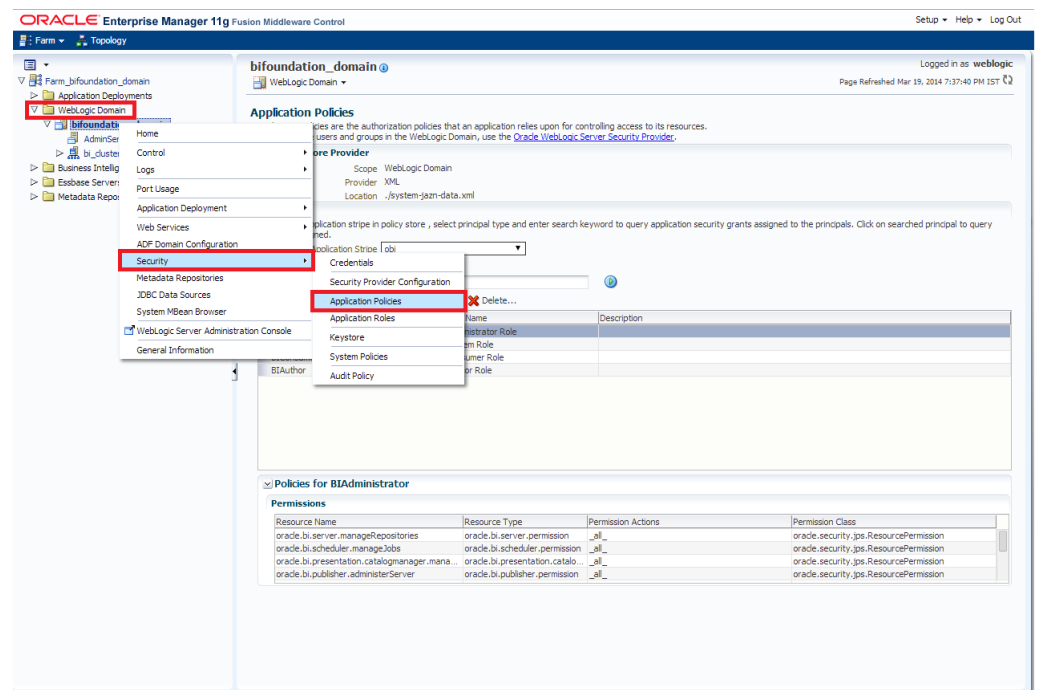
Figure 1-59 Create Application Role



9. After getting information message like **A new role added successfully**, then again:
 - a. Right click on the domain (in which BI suite is installed) under the WebLogic domain.
 - b. Go to Security and navigate to Application Policies.

The **Navigation - Security - Application Policies** screen is displayed.

Figure 1-60 Navigation - Security - Application Policies

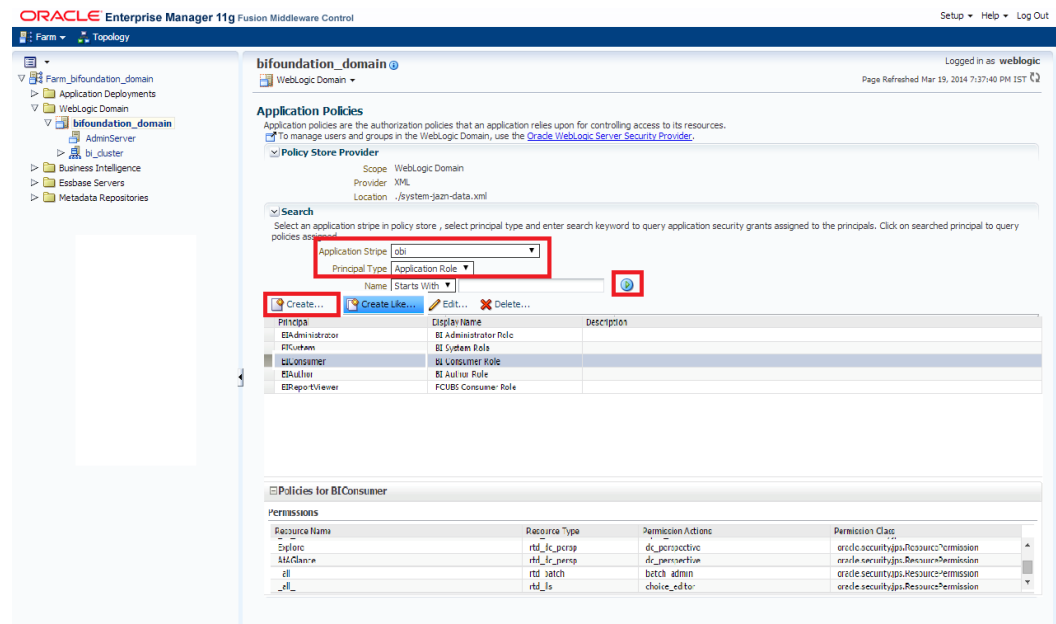


10. After navigating to the **Application Policies** screen, specify the following details.

- a. Select the **Application Stripe** as **obi** from the drop-down and **Principal Type** as **Application Role**.
- b. Click on the **search** button.
- c. Select BIConsumer (it should be highlighted) from the list and click on the **Create** button.

The **Application Policies** screen is displayed.

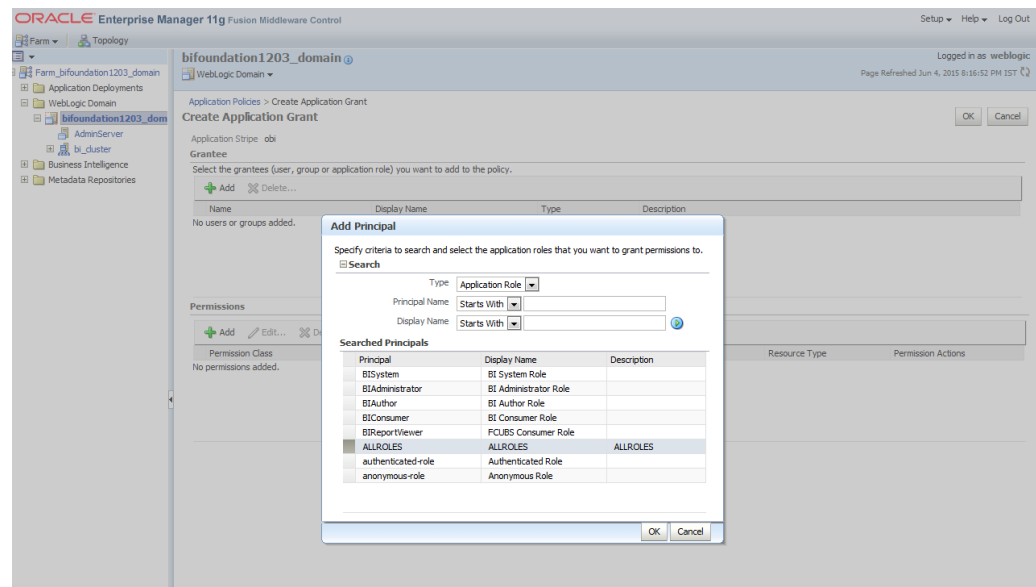
Figure 1-61 Application Policies



11. After navigating to the **Create Application Grant** screen,
 - a. Click on the **Add** button.

The **Add Principal** pop-up window is displayed.

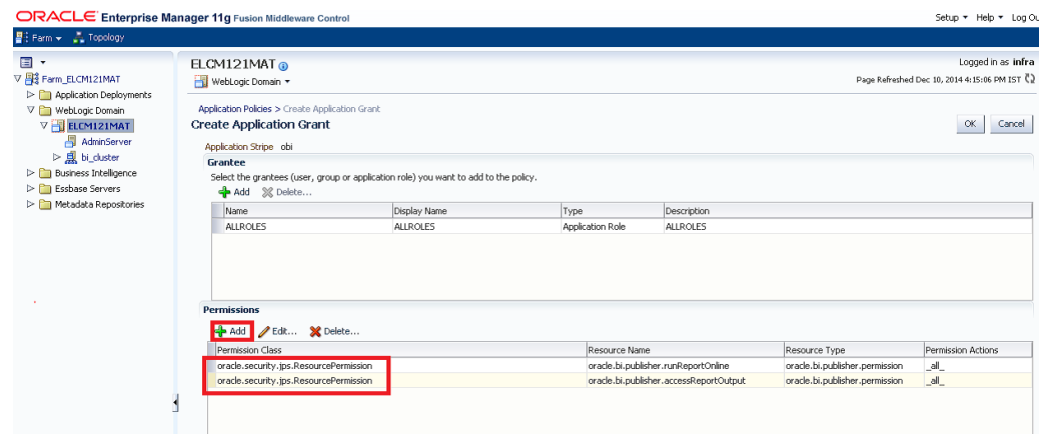
Figure 1-62 Add Principal



- b. Select **Type** as **Application Role** from the dropdown list in the Add Principal pop-up window and click on the **search** (triangle icon instead of the word search TBD) button.
- c. From the **Searched Principals** list, select **ALLROLES** that has been created earlier in the **Application Role** screen.
- d. Click on the **OK** button in the **Add Principal** pop-up window and on the **Create Application Grant** screen.

The **Create Application Grant** screen is displayed.

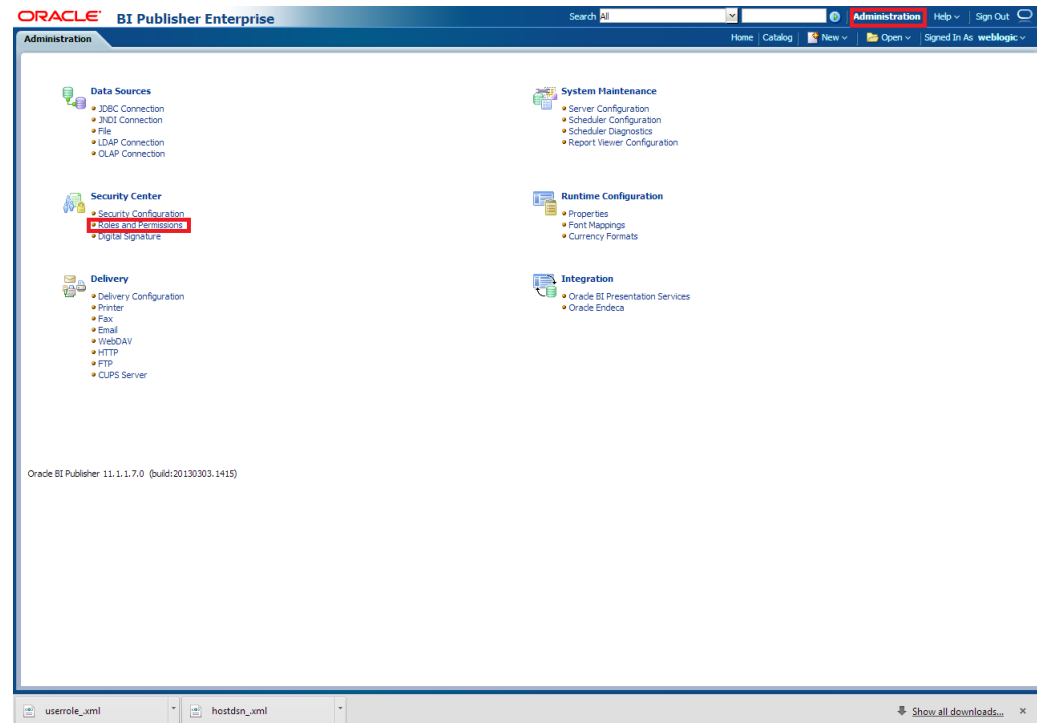
Figure 1-63 Create Application Grant



- e. Click on the **Add** button under **Permissions** and add the two permissions one by one as mentioned below.
 - oracle.bi.publisher.runReportOnline
 - oracle.bi.publisher.accessReportOutput
12. After getting information message as **A security added successfully**, then:
 - a. Login into the BIPublisher , `http/s:<hostname>:<port>/xmlpsrver`.
 - b. Click on the **Administration**.
 - c. Click on the **Roles and Permission** under **Security Center** and check if the added role (in em) is displayed. If not, restart the servers.

The **BIPublisher - Administration** screen is displayed.

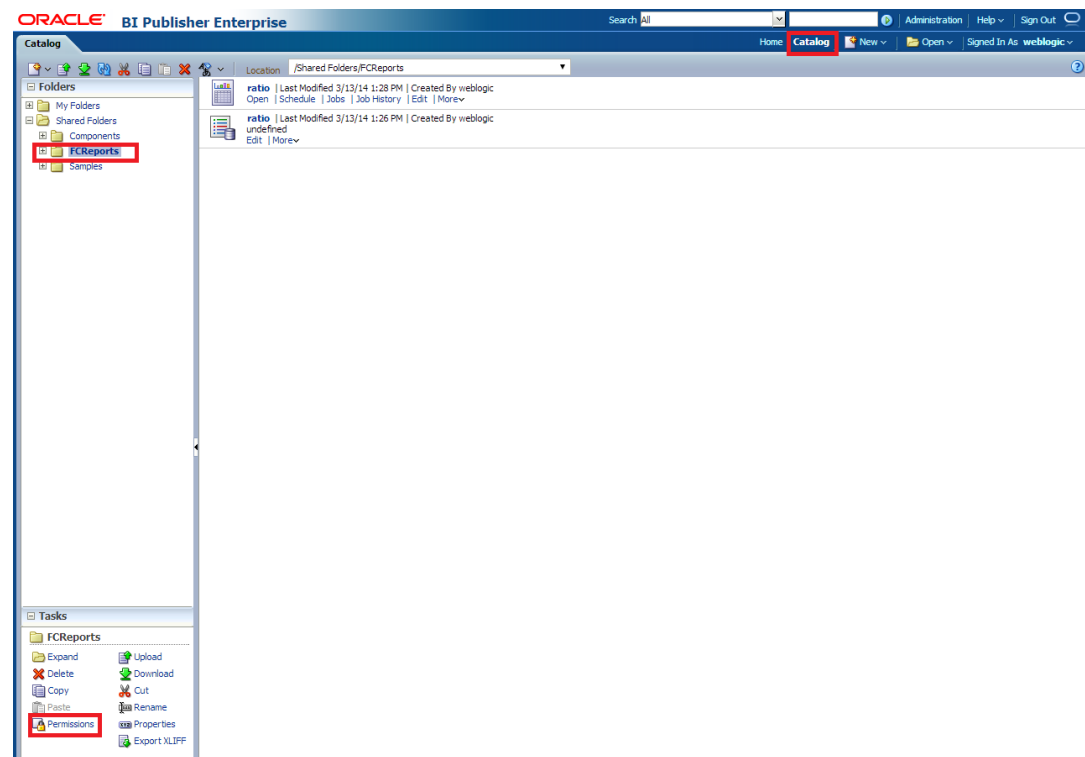
Figure 1-64 BIPublisher - Administration



13. Click on the **Catalog**, select the folder that has been created, and click on **Permissions** under the **Tasks**.

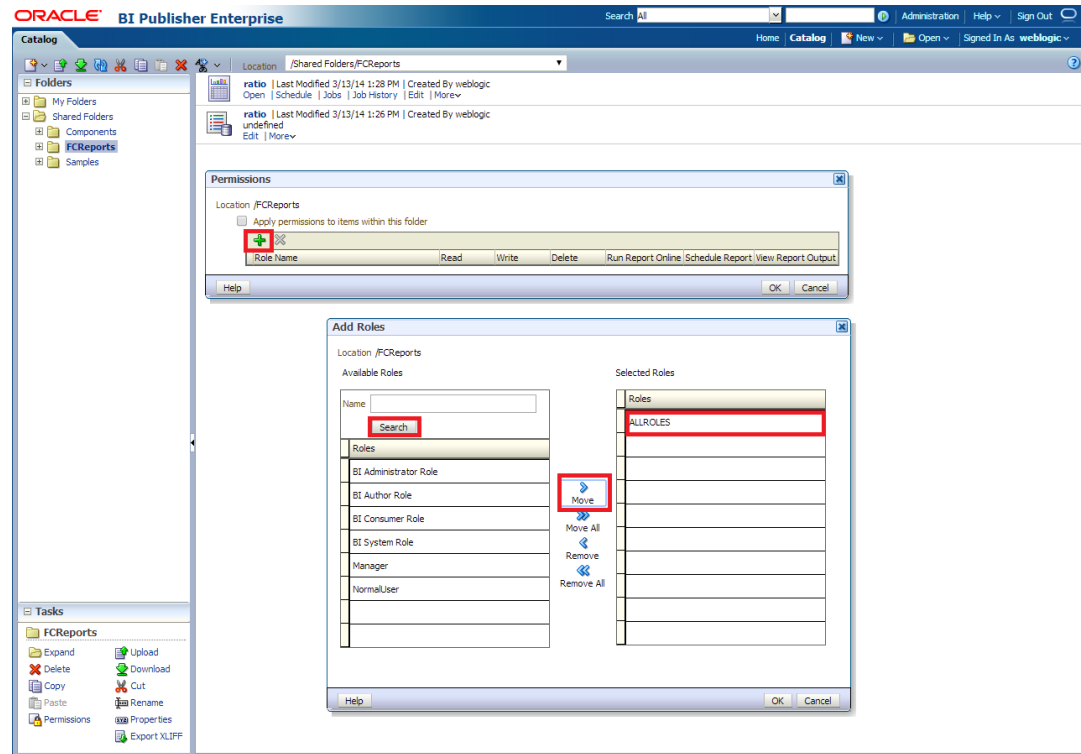
BIPublisher - Catalog screen is displayed.

Figure 1-65 BIPublisher - Catalog

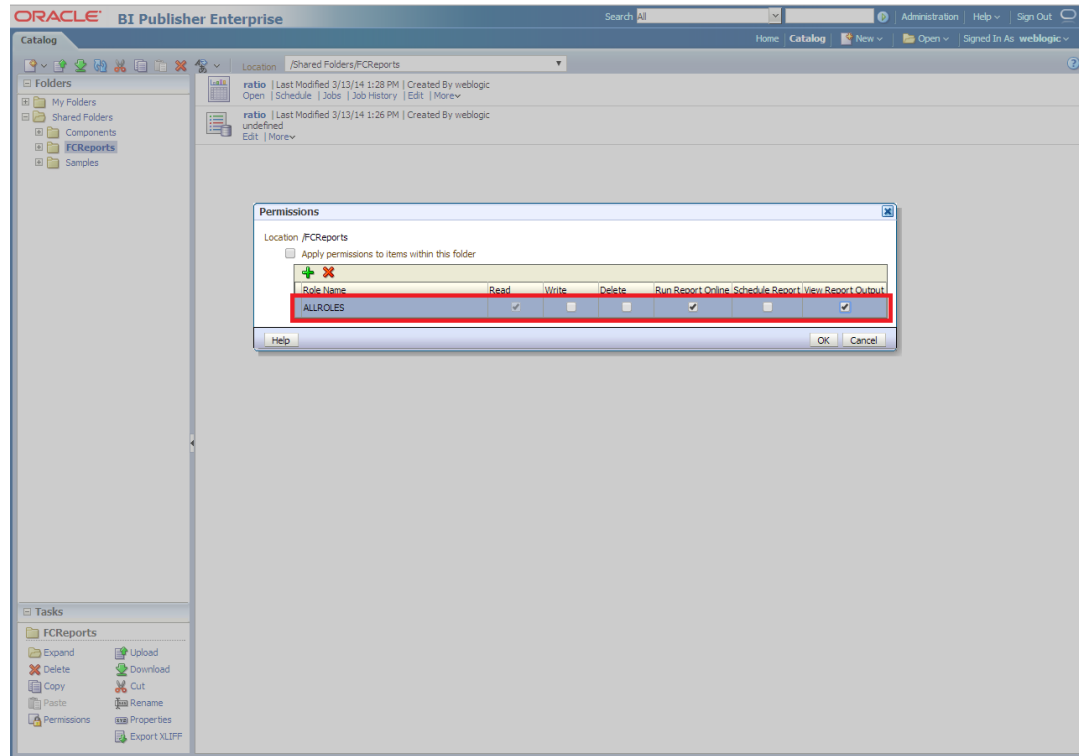


14. Click on the **Add** button.
The **Add Roles** screen is displayed.

Figure 1-66 Add Roles - Permission



15. Click on the **Search** button in **Add Roles** pop-up window.
16. Select the role that has been created and click on the **Move** button and click on **OK**.
17. Finally, the role will be added, and select the options that have to be provided for the particular role and check if the permissions are only to items within the folder if necessary.
The **Permissions** with added role is displayed.

Figure 1-67 Permissions - Added Role

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

Note

Similarly, we can set the permissions at the report level also for a particular role.

19. Login in to Bi Publisher <http://server:port/xmlpserver>.
20. Click on the **Administration**.

The **Administration** screen is displayed.

Figure 1-68 Administration

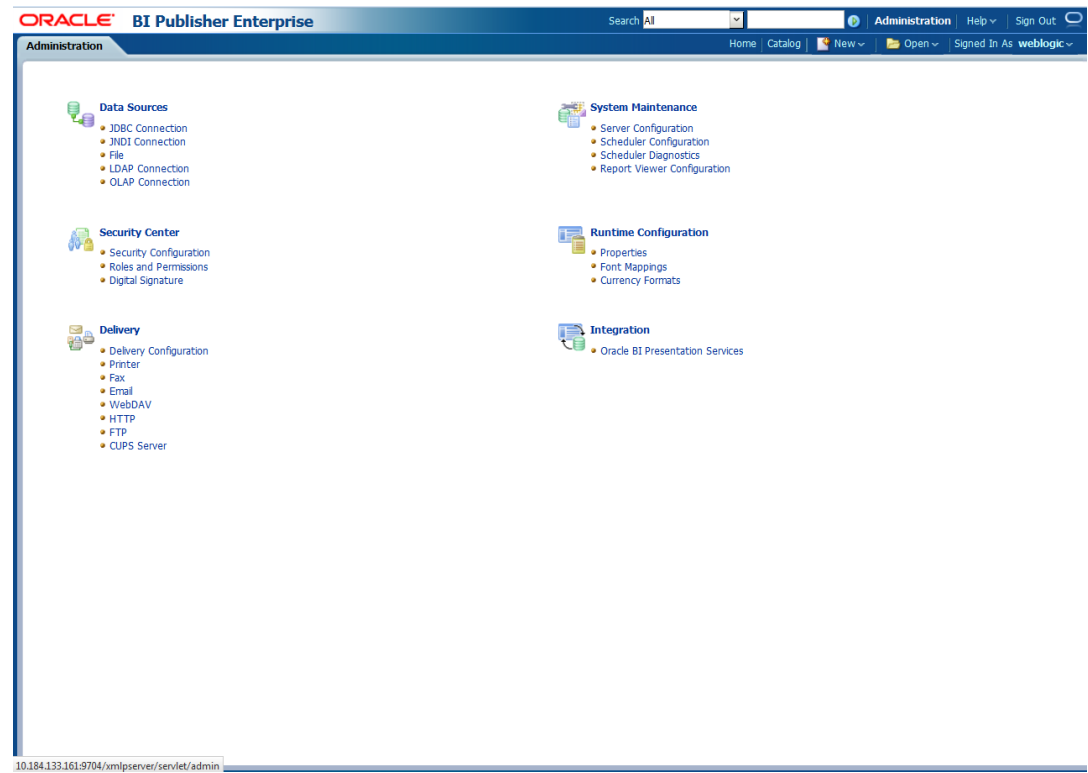
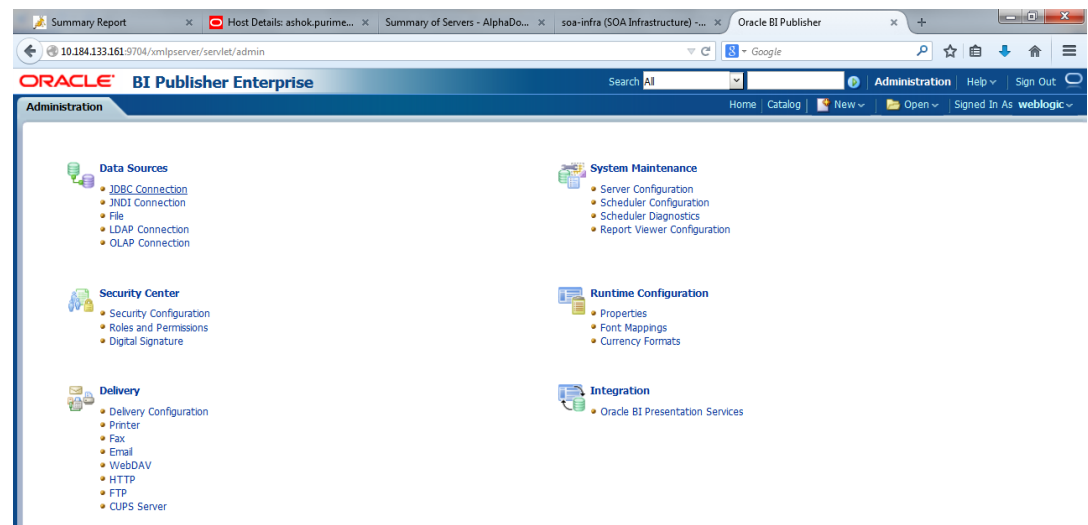


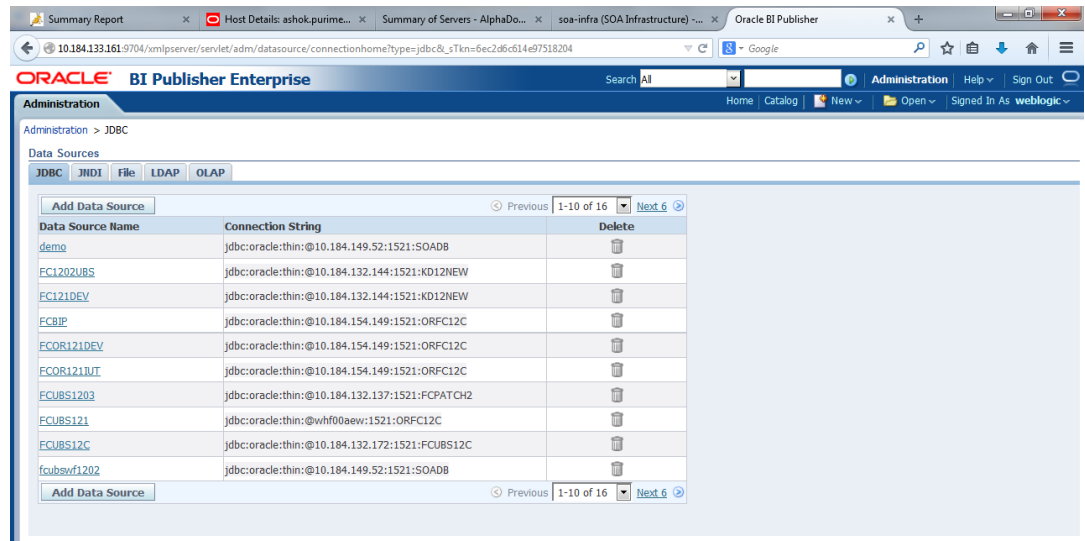
Figure 1-69 Administration - JDBC Connection



21. Under **Data Sources**, click on **JDBC Connection**.

The **Administration - JDBC** screen is displayed.

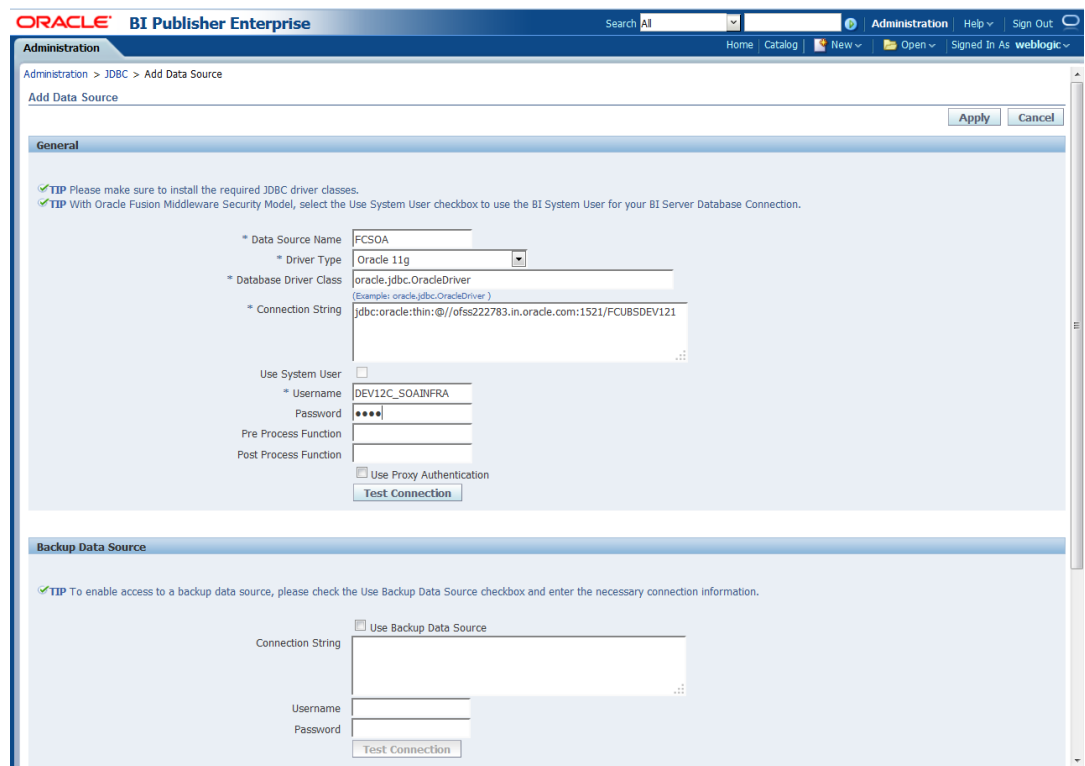
Figure 1-70 Administration - JDBC



22. Click on **Add Data Source** and create the data source with data source name as **FCSOA** and use soa schema details to create the same.

The **Administration - JDBC - Add Data Source** screen is displayed.

Figure 1-71 Administration - JDBC - Add Data Source



23. Add the FCIS roles to Allowed Roles under Security.

Administration - JDBC - Add Data Source (Security) screen is displayed.

Figure 1-72 Administration - JDBC - Add Data Source (Security)

The screenshot shows the Oracle BI Publisher Enterprise Administration console. The page is titled "Administration - JDBC - Add Data Source (Security)". It is divided into three main sections: Administration, Backup Data Source, and Security.

- Administration:** Contains fields for "Use System User" (checkbox), "Username" (DEV12C_SOAINFRA), "Password" (masked), "Pre Process Function", "Post Process Function", and "Use Proxy Authentication" (checkbox). A "Test Connection" button is at the bottom.
- Backup Data Source:** Contains a "TIP" message, a checkbox for "Use Backup Data Source", a "Connection String" field, "Username", and "Password" fields. A "Test Connection" button is at the bottom.
- Security:** Contains a checkbox for "Allow Guest Access" and a role management interface. The "Available Roles" list includes: BI Administrator Role, BI Author Role, BI Consumer Role, BI System Role, and FCUBS Consumer Role. The "Allowed Roles" list includes: ALLROLES. Buttons for "Move", "Move All", "Remove", and "Remove All" are present between the lists.

24. Click on the **Test Connection**.
25. Once the connection is established successfully, click on **Apply**.
26. Follow steps 15 to 17 to create the data source for FCIS Schema and give the name **FCBIPBPEL**.

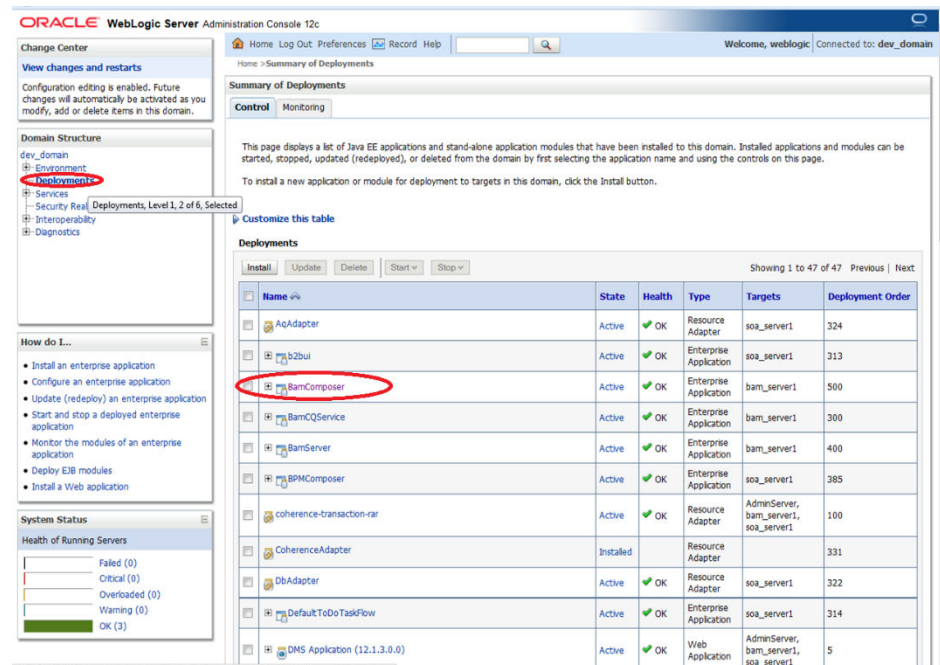
1.2.9 BAM Report Configuration settings

This topic explains the configuration settings for BAM reports.

1. Generate a deployment plan for BAM Composer Application.
2. Log in to console `http://<hostname>:<port>/<console>`.
3. Under the **Domain Structure**, click **Deployments**.
4. On the **Summary of Deployments** screen, click **BAM Composer**.

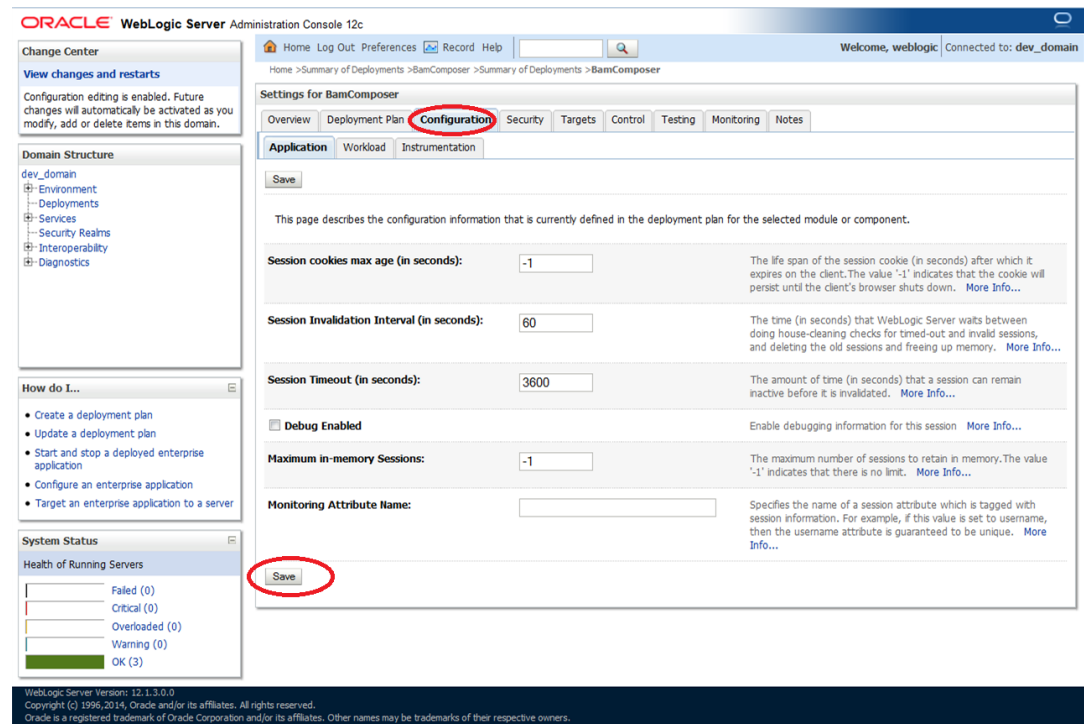
The **Summary of Deployments** screen is displayed.

Figure 1-73 Summary of Deployments - BAMcomposer



- On the **Settings for BAM Composer** screen, click on the **Configuration** tab, select the **Application** tab and click on the **Save** button.

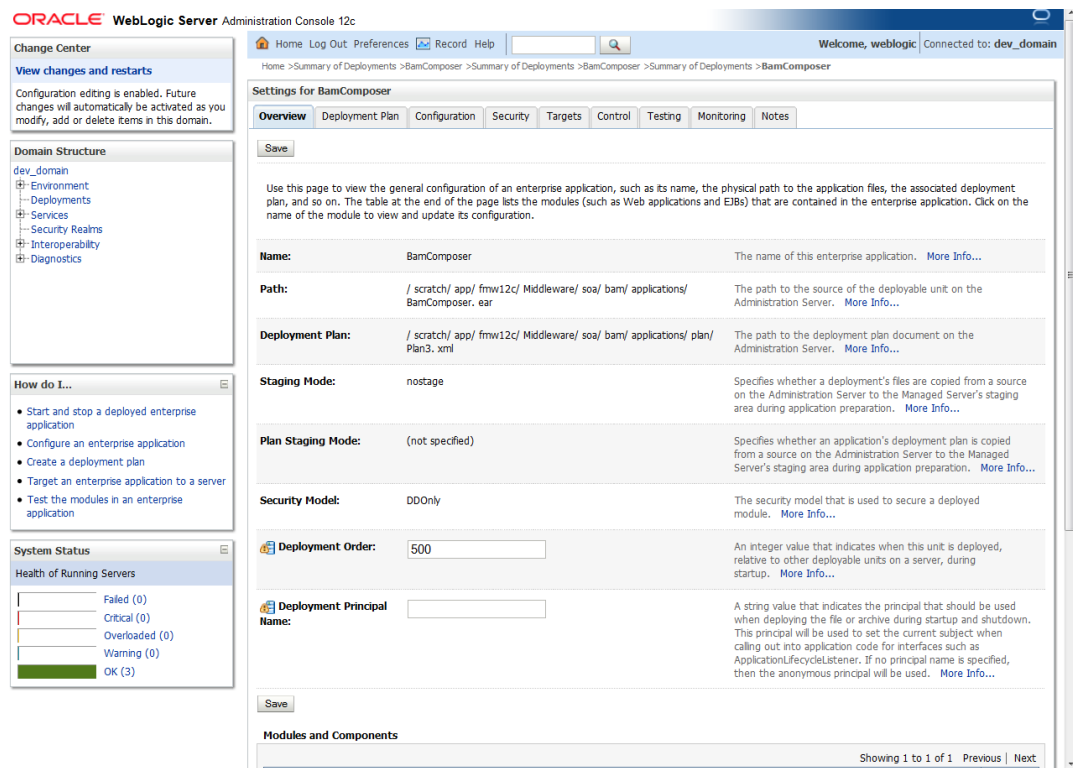
Figure 1-74 Settings for BAM Composer - Configuration



- On the **Settings for BAM Composer** screen, click on the **Overview** tab and check the **Deployment Plan** location.

Settings for BAM Composer - Overview screen is displayed.

Figure 1-75 Settings for BAM Composer - Overview



7. Add variable and variable assignment as below to the [Plan.xml](#) in <module-name>BamComposerWeb.war</module-name>.

```
<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/
[paramname="oracle.adf.view.rich.security.FRAME_BUSTING"]/param-value</
xpath>
    <origin>planbased</origin>
  </variable-assignment> </module-descriptor>
```

8. On the **Summary of Deployments** screen, click on **Stop** button and the following options are displayed.
 - When work completes.
 - Force Stop Now
 - Stop, but continue servicing administration requests.

Figure 1-76 BAMComposer Application

The screenshot shows the 'Deployments' table in the Oracle WebLogic Server Administration Console. The table lists various applications and their deployment details. The 'BAMComposer' application is highlighted with a red circle. A tooltip for the 'Stop' button is visible, showing options: 'When work completes' and 'Force Stop Now'.

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	OK	Resource Adapter	soa_server1	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
FCUBSAppBUT (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	OK	Enterprise Application	soa_server1	100
FlowAdapter	Active	OK	Resource	soa_server1	325

9. Update the deployment plan.

10. Click on **Deployment**, select the **BAM Composer** checkbox and click the **Update** button.

The **Summary of Deployments - Update** screen is displayed.

Figure 1-77 Summary of Deployments - Update

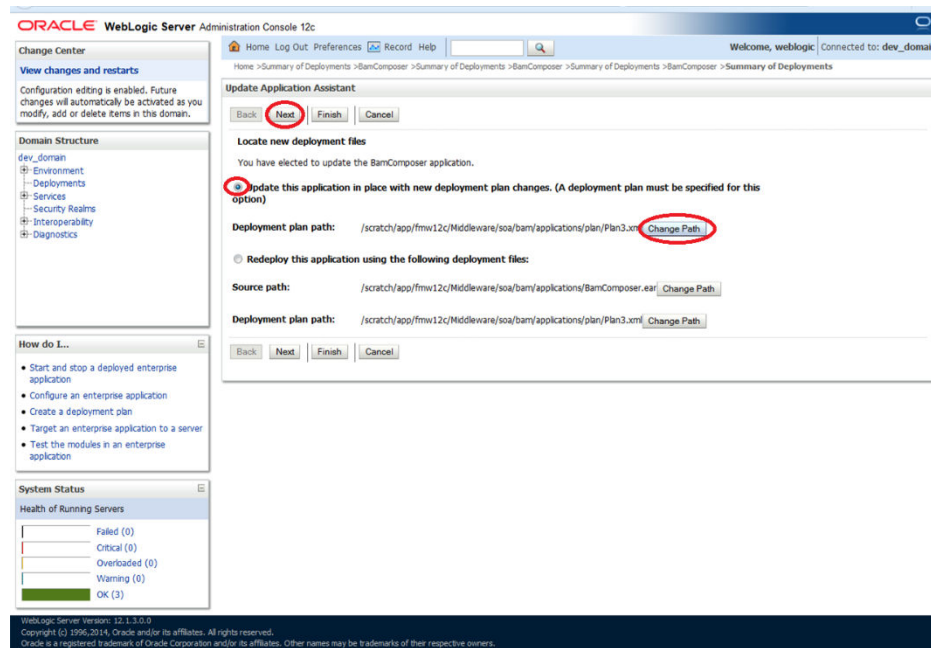
The screenshot shows the 'Summary of Deployments - Update' screen in the Oracle WebLogic Server Administration Console. The 'Update' button is highlighted with a red circle. The 'BAMComposer' application is also highlighted with a red circle.

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	OK	Resource Adapter	soa_server1	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

11. On the **Update Application Assistant** screen, select the **Update this application in place with new deployment plan changes** and click on the **change path** button.

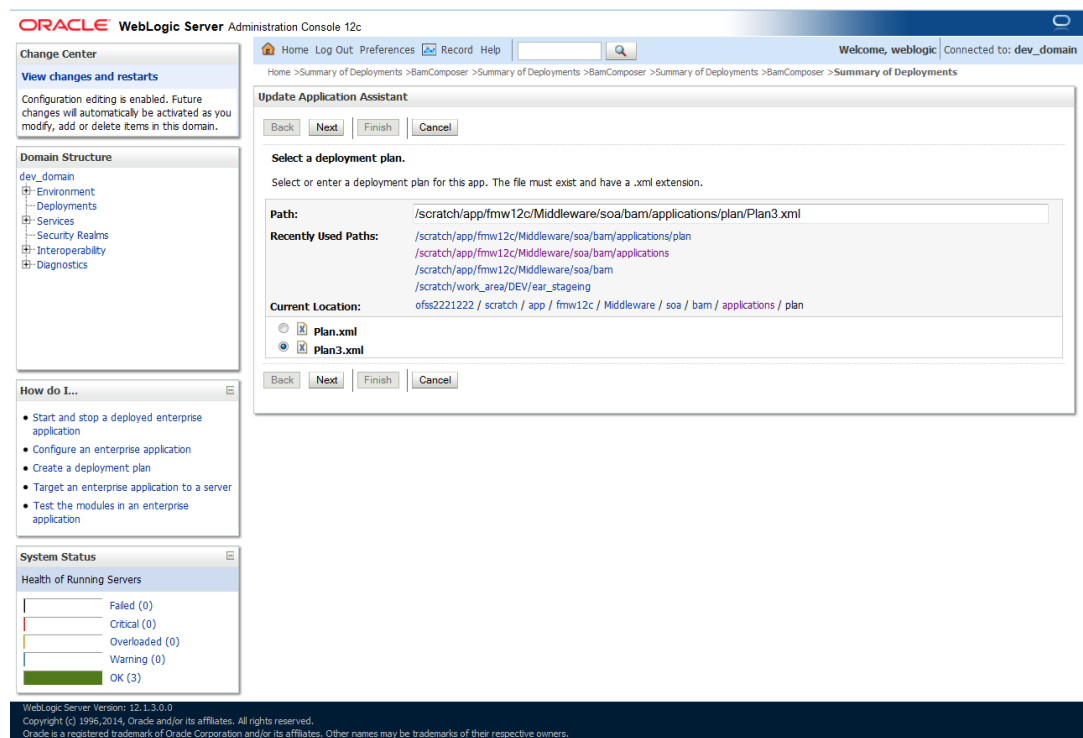
The **Update Application Assistant** screen is displayed.

Figure 1-78 Update Application Assistant - Change Path



12. Select the latest plan.xml in the path, click the **Next** button, and click **Finish**.
The **Update Application Assistant - Select a deployment plan** screen is displayed.

Figure 1-79 Update Application Assistant - Select a deployment plan



13. After the click on **Finish**, two messages are displayed on the **Summary of Deployments** screen.

The **Summary of Deployments - Messages** screen is displayed.

Figure 1-80 Summary of Deployments - Messages

Oracle WebLogic Server Administration Console 12c

Home > Summary of Deployments > BamComposer > Summary of Deployments > BamComposer > Summary of Deployments > 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
b2bui	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

14. Restart the BAM Composer application in the console.

The **Summary of Deployments - Restart BAM Composer** screen is displayed.

Figure 1-81 Summary of Deployments - Restart BAM Composer

Oracle WebLogic Server Administration Console 12c

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

Messages

- ✓ Selected Deployments have been requested to stop.

Summary of Deployments

Control Monitoring

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

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

Customize this table

Deployments

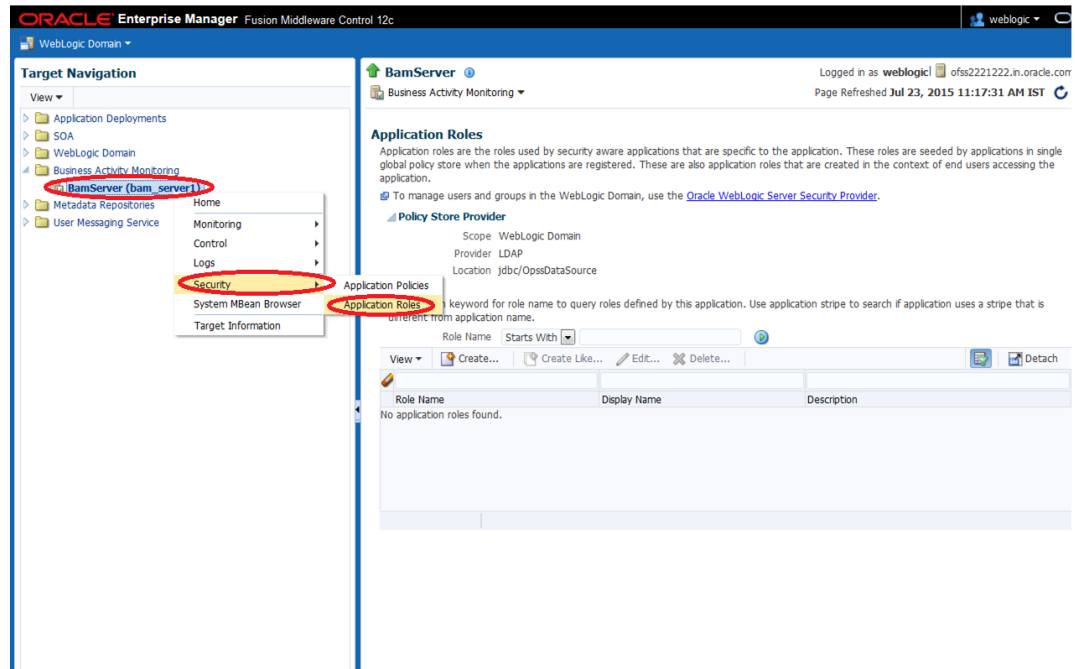
Install Update Delete Start Stop

Showing 1 to 48 of 48 Previous Next

Name	State	Health	Type	Targets	Deployment Order
AqAdapter	Prepared	OK	Resource Adapter	SOAServer	324
b2bui	Prepared	OK	Enterprise Application	SOAServer	313
BamComposer	Prepared	OK	Enterprise Application	BAMServer	500
BamCQService	Active	OK	Enterprise Application	BAMServer	300
BamServer	Active	OK	Enterprise Application	BAMServer	400
BPMComposer	Active	OK	Enterprise Application	SOAServer	385
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, BAMServer, SOAServer	100
CoherenceAdapter	Installed		Resource Adapter		331
DbAdapter	Active	OK	Resource Adapter	SOAServer	322
DefaultToDoTaskFlow	Active	OK	Enterprise Application	SOAServer	314
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, BAMServer, SOAServer	5
HSR (Maven) IT (12.1.3.0.0)	Active	Warning	Enterprise Application	SOAServer	600

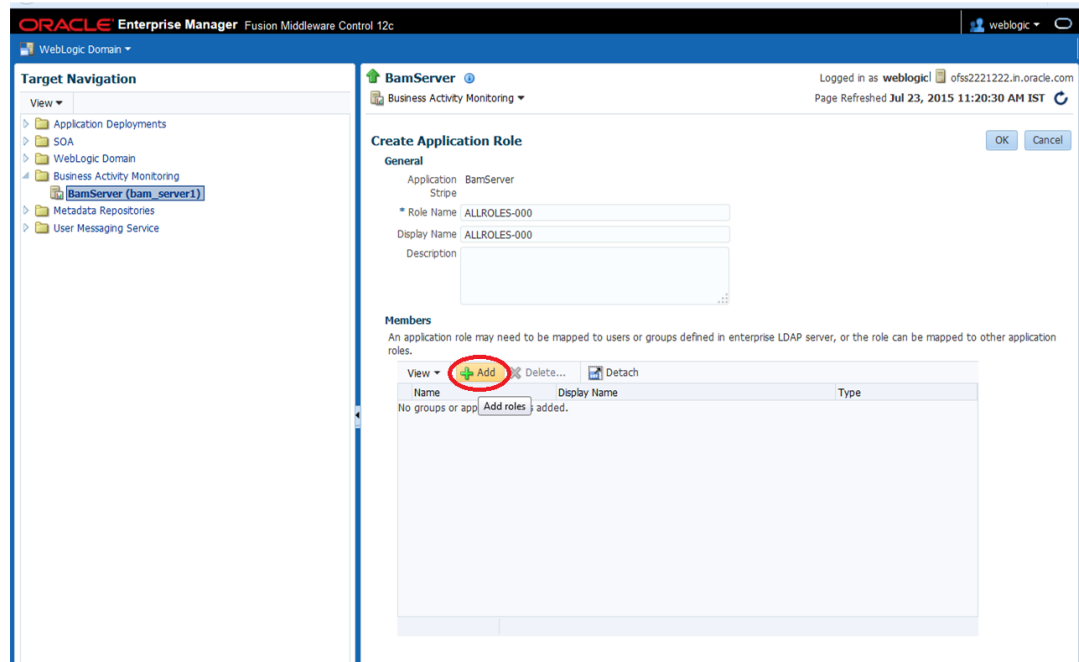
15. Login in to em console <http://hostname:port/em>.
16. Right click on the **BAM Server**, go to **Security** and click on the **Application Roles**.
The **BAM Server Application Roles** screen is displayed.

Figure 1-82 BAM Server Application Roles



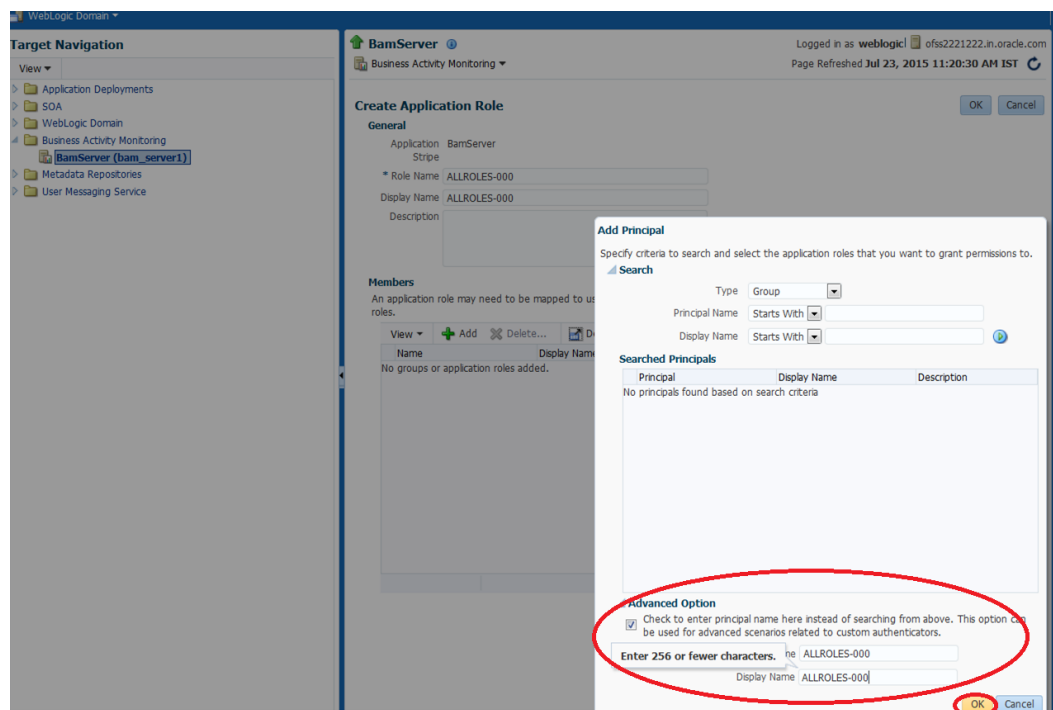
17. On the Application Roles screen click on the **Create** button and create application role with **ALL ROLES-000**.
The **Create Application Role** screen is displayed.

Figure 1-83 Create Application Role - Add



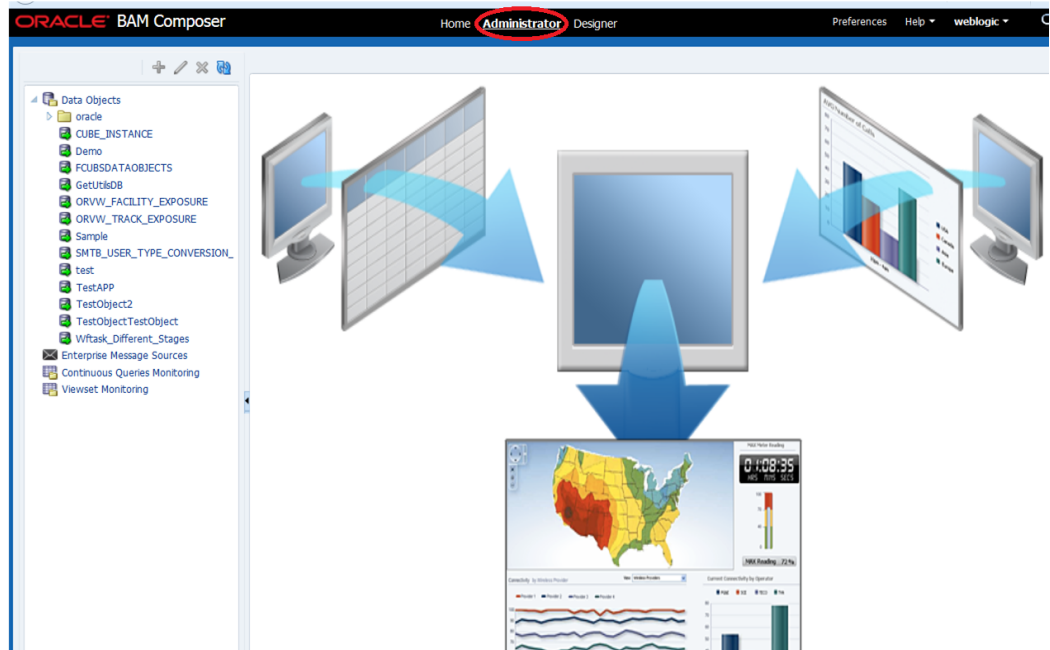
18. Click on the **ADD** button under the **Members**.
19. Select the **Type** as **Group** and add principle details by referring to the below screenshot.

Figure 1-84 BamServer - Add Principal



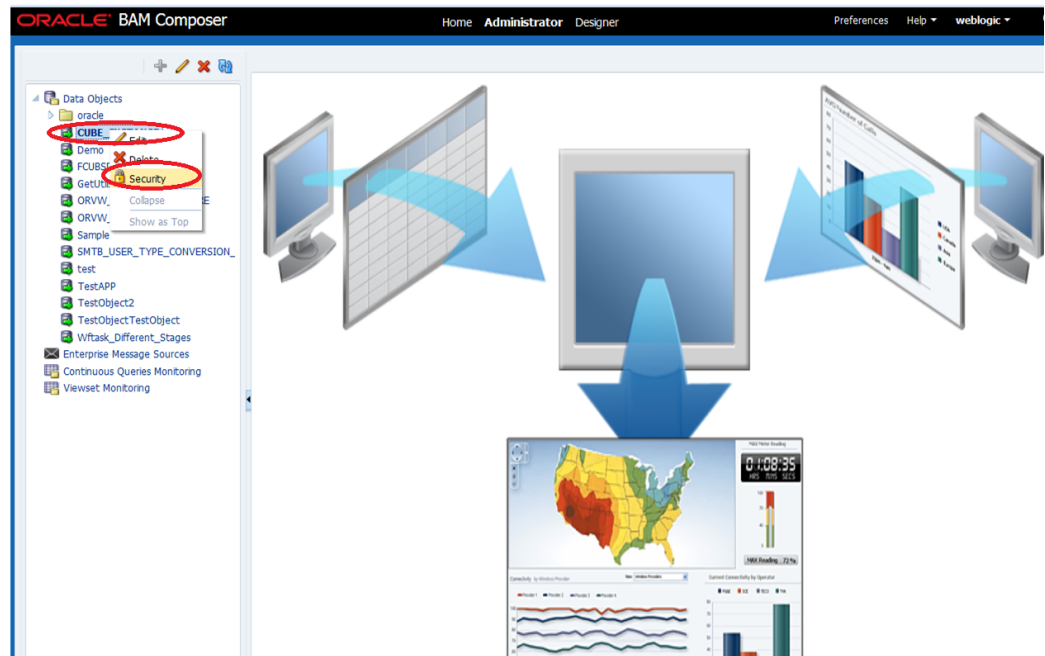
20. Log in to BAM Composer <http://hostname:port/bam/composer> and click on Administrator.
Oracle BAM Composer Administrator screen is displayed.

Figure 1-85 Oracle BAM Composer Administrator



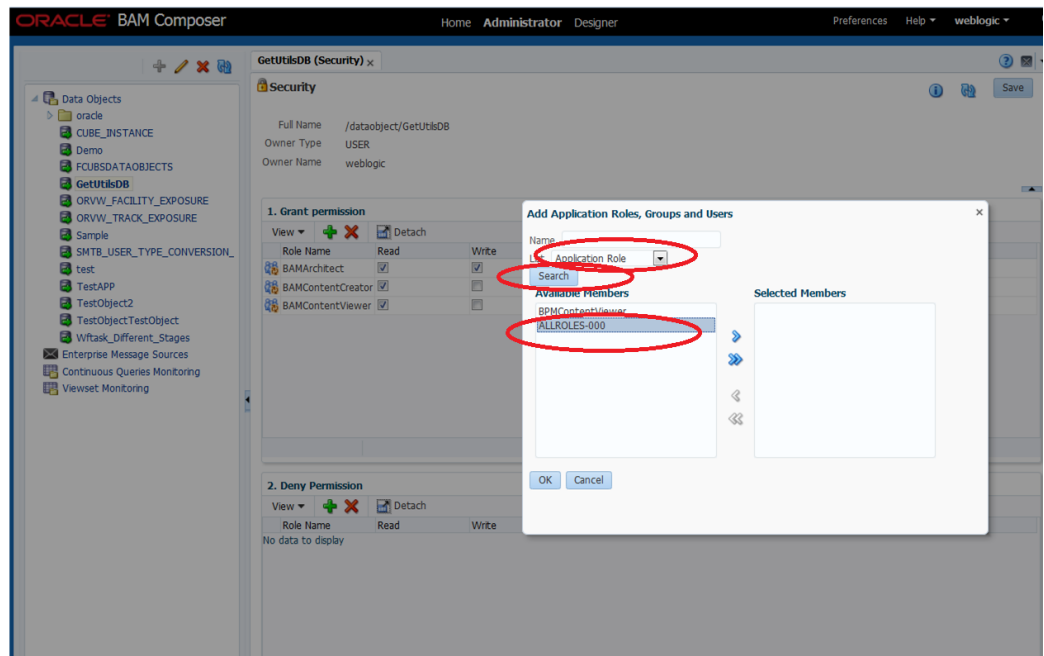
21. Go to **Data Object**, Right Click on **CUBE_INSTANCE** and click on **Security**.
The **Security** screen is displayed.

Figure 1-86 Oracle BAM Composer Navigation



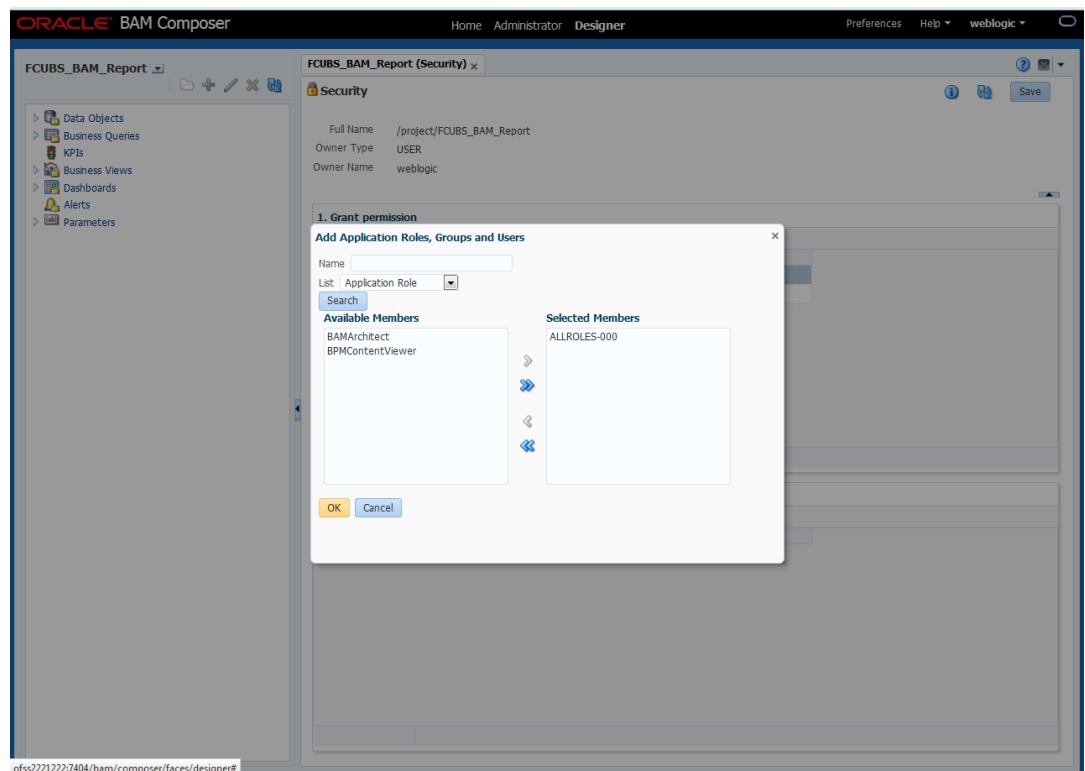
22. Click on the **Add** button under **Grant permission** and search the list based on the **Application Role**.

The **Security - Add Application Roles, Groups and Users** screen is displayed.

Figure 1-87 Security - Add Application Roles, Groups and Users

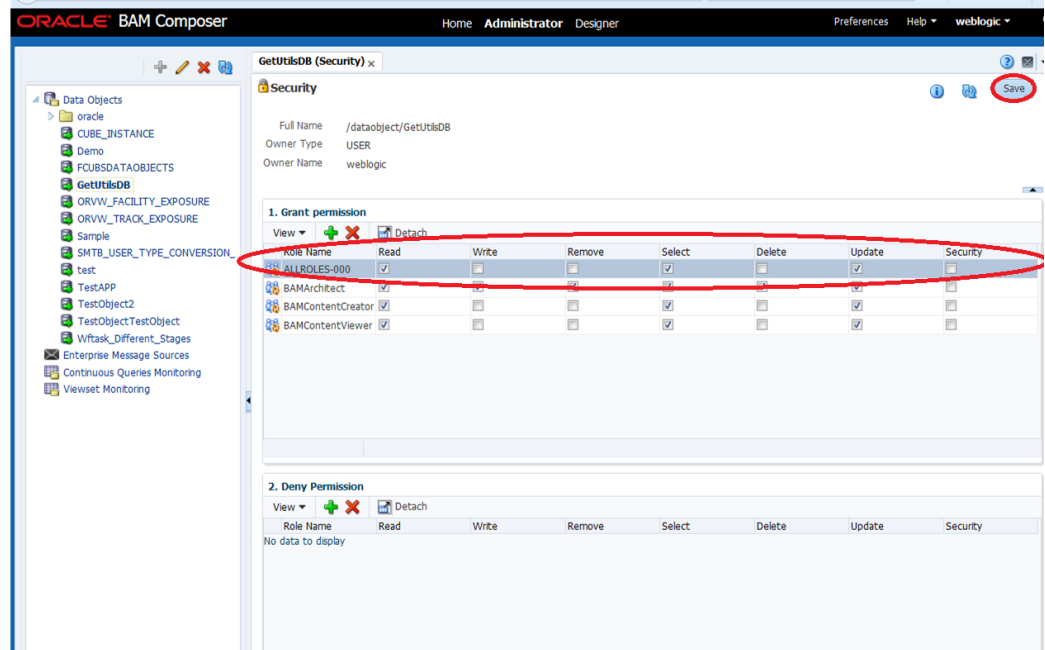
23. Move the **ALLROLES-000** to Selected members.

The **Add Application Roles, Groups and Users - ALLROLES-000** screen is displayed.

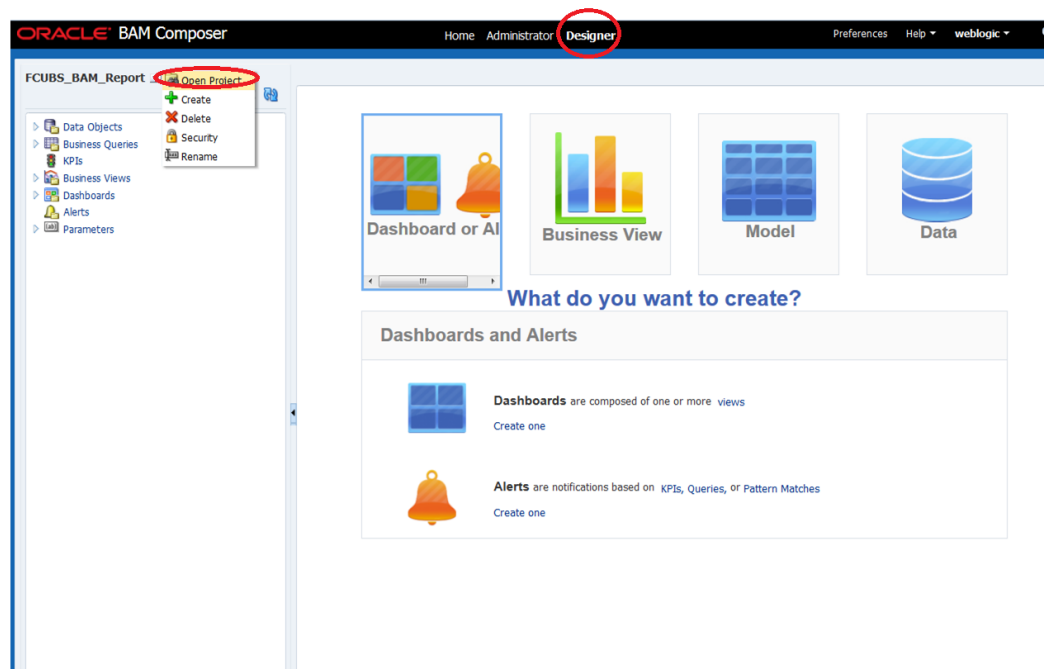
Figure 1-88 Add Application Roles, Groups and Users - ALLROLES-000

24. Click on **Read**, **Select**, **Update** checkboxes and click on the **Save** button.
The **Security - ALLROLES-000** screen is displayed.

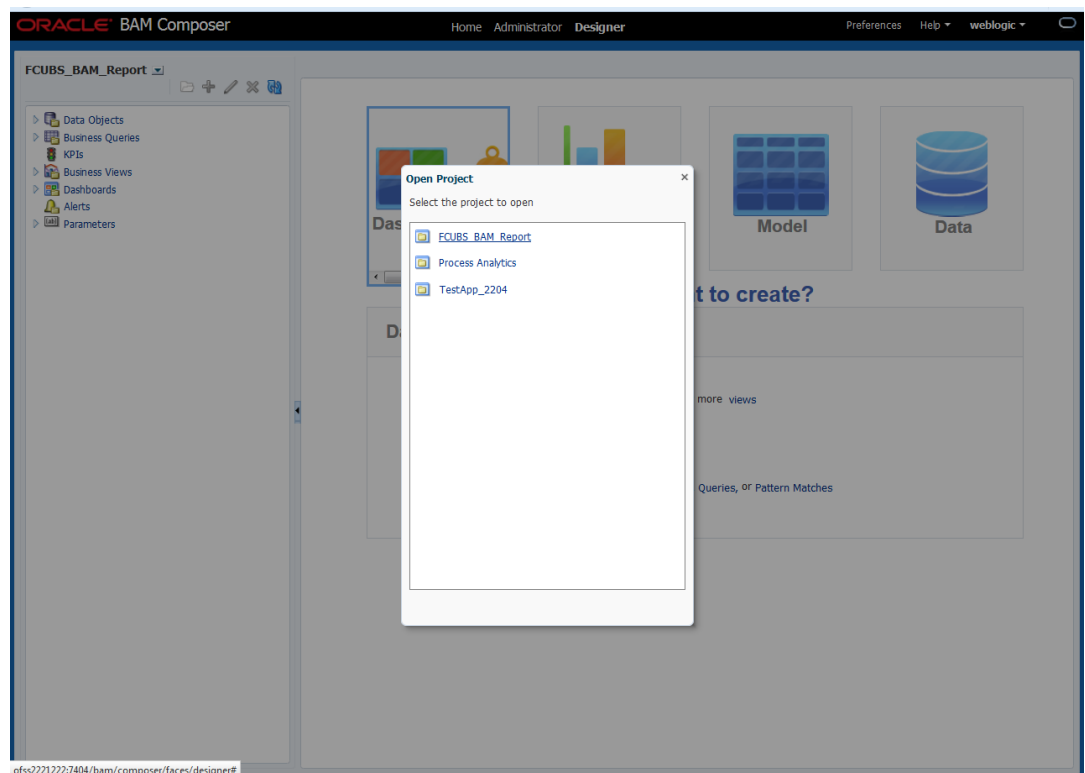
Figure 1-89 Security - ALLROLES-000



25. Follow steps 19 to 23 for other Data objects as listed below:
- cube_instance
 - wftask_different_stages
 - ORVW_TRACK_EXPOSURE
 - ORVW_FACILITY_EXPOSURE
 - GetUtilsDB
 - SMTB_USER_TYPE_CONVERSION_VIEW
 - FCUBSDATAOBJECTS
26. On the **Oracle BAM Composer**, click on the **Designer** and click open project.
The **Oracle BAM Composer Designer** screen is displayed.

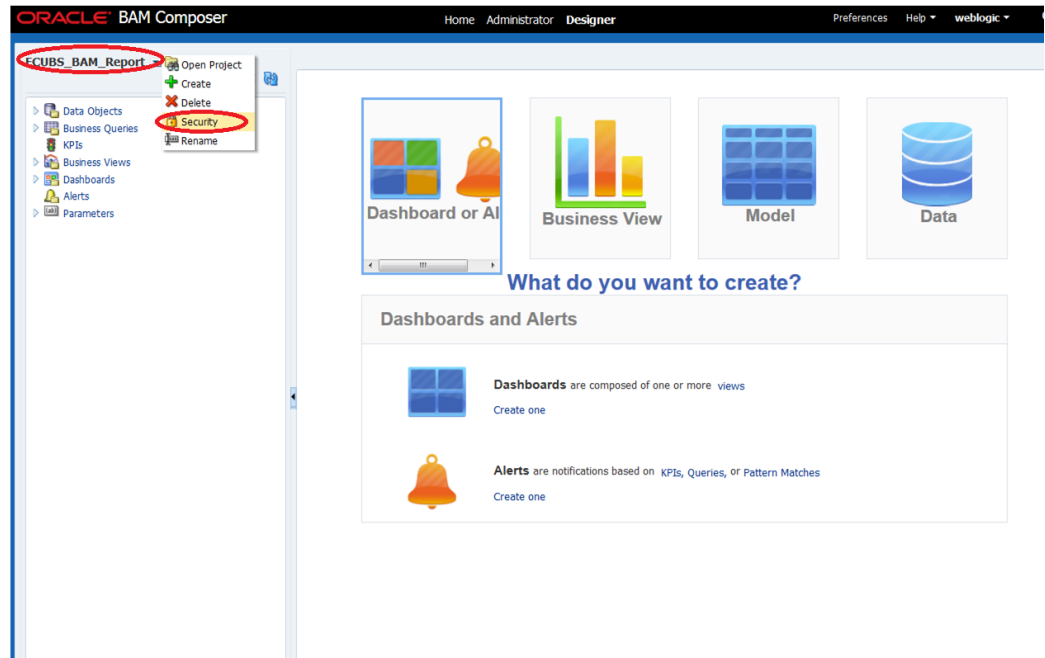
Figure 1-90 Oracle BAM Composer Designer - Open Project

27. On the **Open Project** pop-up window click on **FCUBS_BAM_Report**.
The **Designer - Open Project** pop-up window is displayed.

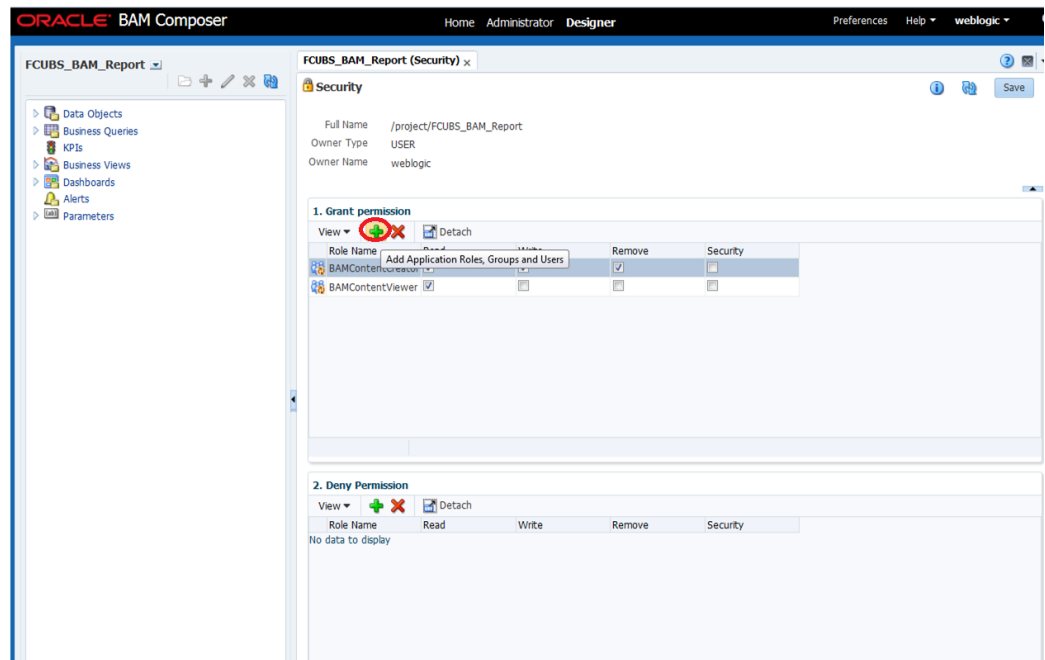
Figure 1-91 Designer - Open Project

28. Click on **FCUBS_BAM_Report** and click Security.
The **FCUBS_BAM_Report (Security)** screen is displayed.

Figure 1-92 Oracle BAM Composer Designer - Security

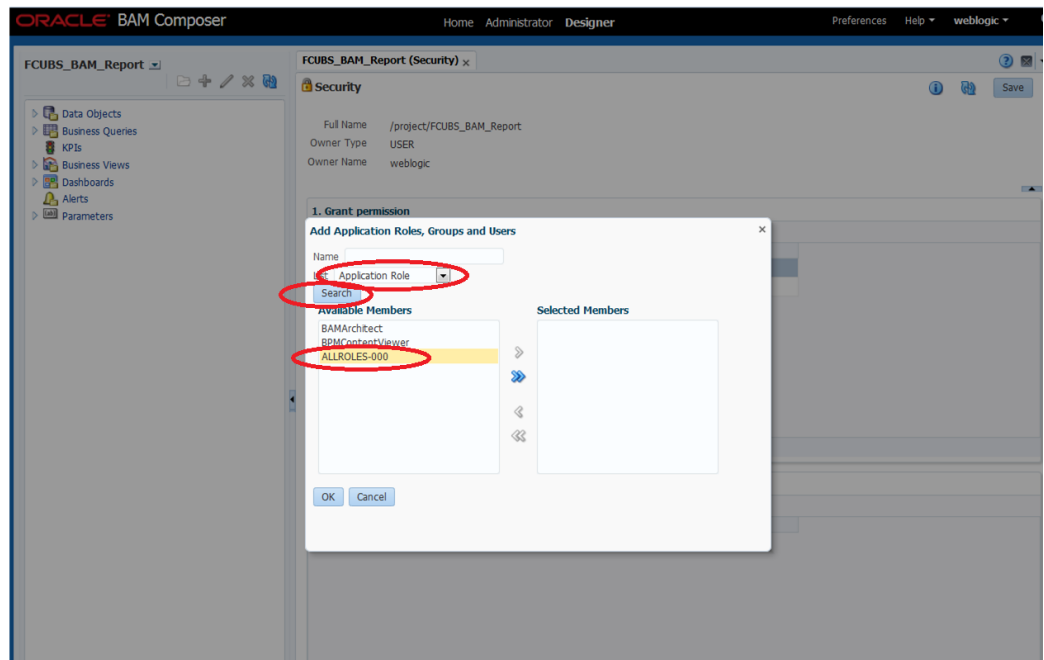


29. Click on the **ADD** button under **Grant Permission**.

Figure 1-93 Security - Grant Permission

30. Search the List based on the **Application Roles** and select the **ALLROLES-000**.

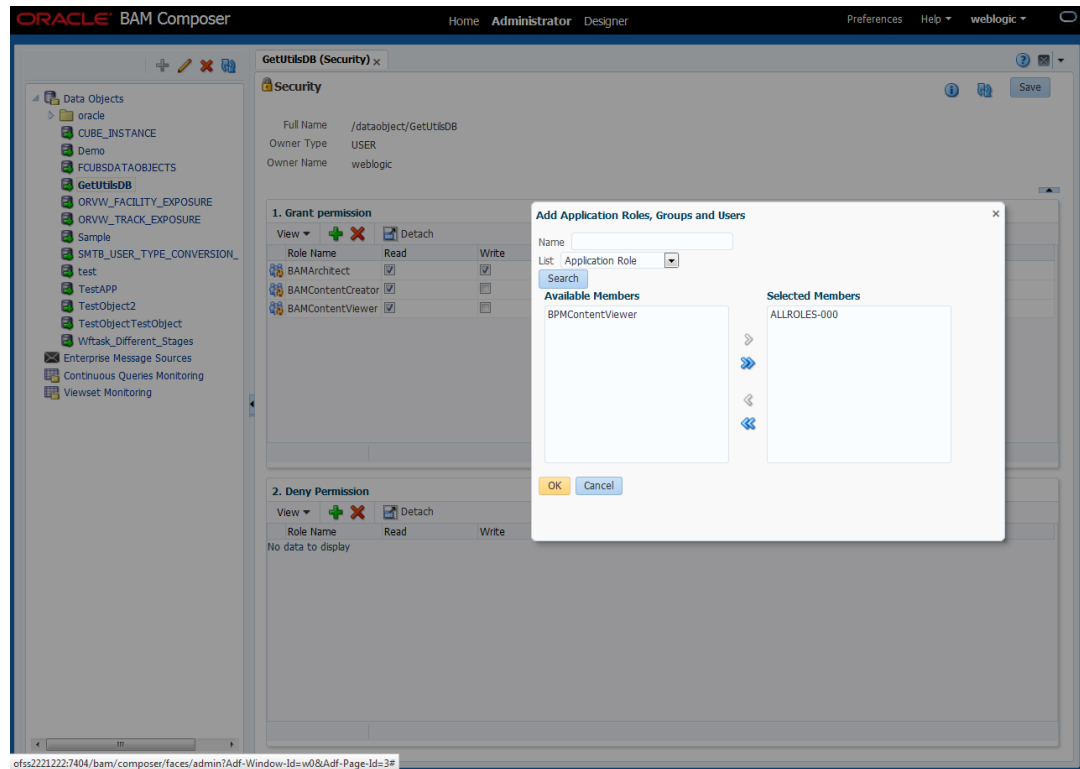
The **Add Application Roles, Groups and Users - ALLROLES-000** pop-up window is displayed.

Figure 1-94 Add Application Roles, Groups and Users - ALLROLES-000

31. Move the **ALLROLES-000** to Selected Members and click on **OK** button.

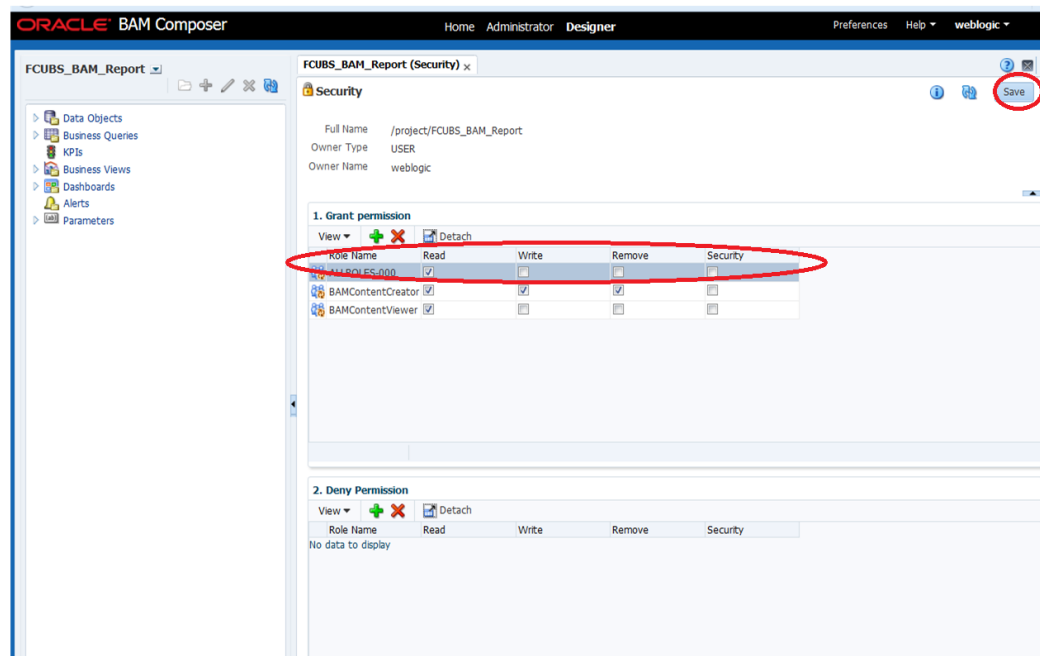
The **Add Application Roles, Groups and Users - ALLROLES-000 - Selected Members** pop-up window is displayed.

Figure 1-95 Add Application Roles, Groups and Users - ALLROLES-000



32. Click on **Read** check box for **ALLROLES-000** and click on the **Save** button.
The **FCUBS_BAM_Report (Security) - ALLROLES-000** screen is displayed.

Figure 1-96 FCUBS_BAM_Report (Security) - ALLROLES-000



1.2.10 IPM Configuration To Edit The Document

This topic explains to edit the document using the IPM configuration.

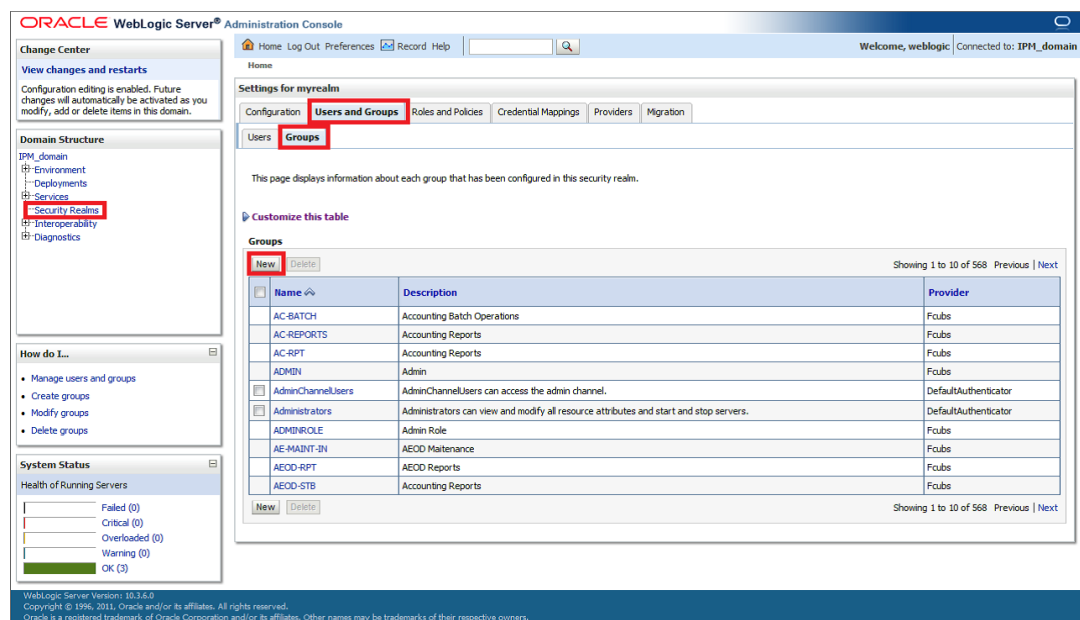
1. Log in to the console, `http/s:<hostname>:<port>/console` with admin user.
2. To add the FCJCustomProvider follow steps 3 to 7 in [Custom Provider Configuration](#).

After adding, navigate to **Security Realms, myrealm, Users and Groups** and check if the users from the schema are displayed in the **Users** tab, and Roles from the schema are displayed under the **Groups** tab.

3. After adding the custom authenticator,
 - a. Navigate to **Security Realms, myrealm, Users and Groups** and click on the **Groups** tab.
 - b. Click on the **New** button.

The **Settings for myrealm** screen is displayed.

Figure 1-97 Settings for myrealm - Group



4. After clicking the **New** button,
 - a. Enter the Name as **IPMUserGroup**.
 - b. Provide the **Description** for the new group (optional).
 - c. Select the **Provider** as **DefaultAuthenticator**.
 - d. Click the **OK** button.

The **Create a New Group** screen is displayed.

Figure 1-98 Create a New Group - Group Properties

ORACLE WebLogic Server® Administration Console

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: IPM_domain

Create a New Group

OK Cancel

Group Properties

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

What would you like to name your new Group?

* **Name:**

How would you like to describe the new Group?

Description:

Please choose a provider for the group.

Provider:

OK Cancel

Domain Structure

IPM_domain

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

How do I...?

- Create groups
- Modify groups
- Delete groups
- Create users
- Manage users and groups

System Status

Health of Running Servers

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

WebLogic Server Version: 10.3.6.0
Copyright © 1996, 2013, 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.

5. Log in to the Imaging URL `http/s:<hostname>:<port>/imaging` with admin user.
The **Oracle Webcenter Content:Imaging** log in screen is displayed.

Figure 1-99 Oracle Webcenter Content - Imaging

ORACLE WebCenter Content: Imaging

Sign In

User ID

Password

Sign In

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6. After entering the **User Id** and **Password**,
 - a. Navigate to Manage Applications on the left pane.
 - b. Click on the **FLEXCUBE**.
 - c. Click on the **Modify** on the right pane.

FLEXCUBE:Application Summary screen is displayed.

Figure 1-100 FLEXCUBE:Application Summary

Oracle WebCenter Content: Imaging

Logged in as weblogic Help Refresh Preferences Logout About

USER_ID

Tools

Manage Searches

Manage Applications

FLEXCUBE

FLEXCUBE: Application Summary

Modify Delete Close

General Properties

Application ID 2

Application Name FLEXCUBE

Description Local

Repository

Full-text Option None

Field Definitions

Type	Name	Length	Scale	Required	Indexed	Default Value	Null
Abc	Field Name 1	80					

Application Security

Type	Security Member	View	Modify	Delete	Grant Access
	weblogic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Document Security

Type	Security Member	View	Write	Delete	Grant Access	Lock Admin	Annotate Standard	Annotate Restricted	Annotate Hidden
	Administrators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	IPMUserGroup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Storage Policy

Document Storage

Volume File default

Supporting Content Storage

Volume File default

Workflow Configuration

Workflow configuration has not been defined.

Application History

Date	Type	User Name
12/2/2015 5:19:4	Definition Create	weblogic
12/2/2015 8:40:1	Definition Modify	weblogic

Manage Imports

Manage Connections

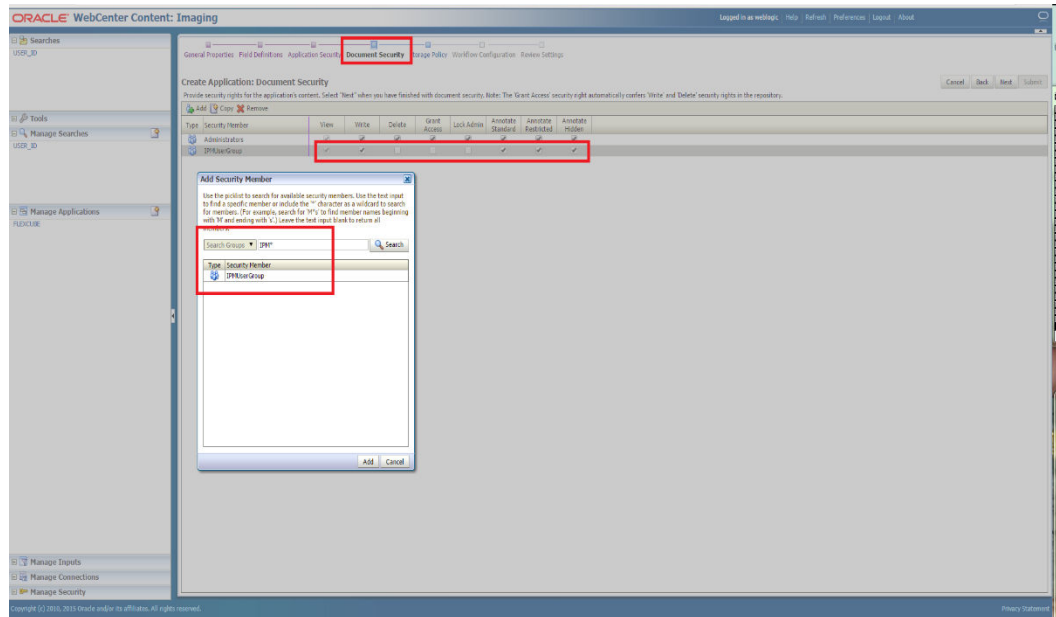
Manage Security

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Privacy Statement

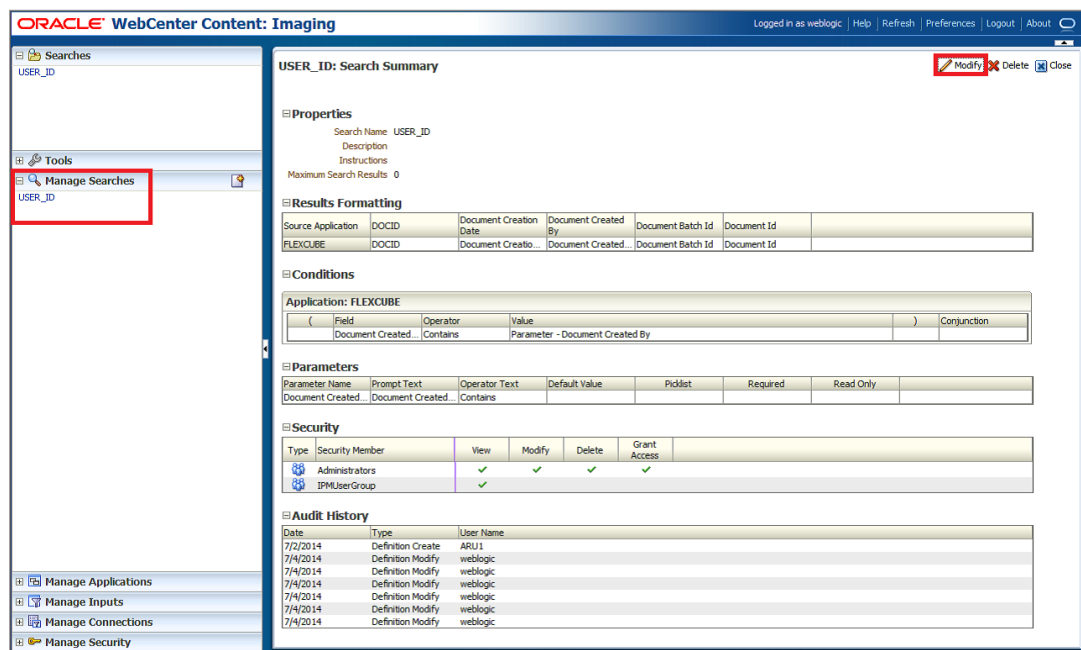
7. After clicking the **Modify** (add the icon with text) button,
 - a. Navigate to Document Security.
 - b. Click on the **Add** (add the icon) button.
 - c. Click on the **Search** button in the **Add Security Member** pop-up window.
 - d. Select the **IPMUserGroup**.
 - e. Click on **Add** (button with text) button.
 - f. IPMUserGroup is 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.
- The **Document Security** screen is displayed.

Figure 1-101 Document Security



8. After clicking 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** (add the icon with text) button.
- The **USER_ID:Search Summary** screen is displayed.

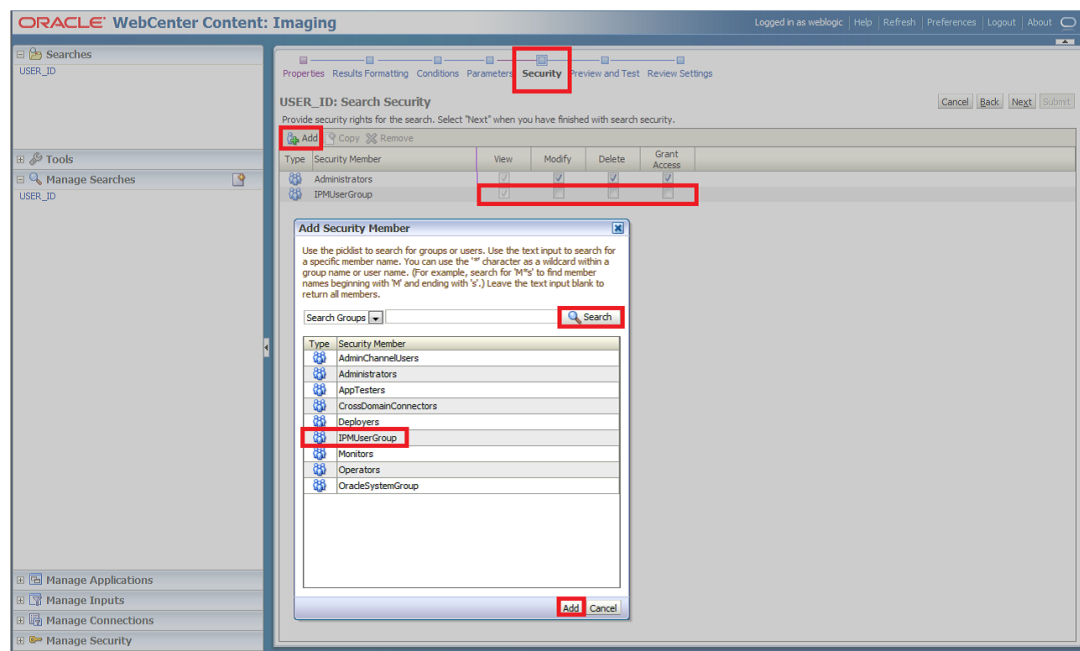
Figure 1-102 USER_ID:Search Summary



9. After clicking on the **Modify** (add the icon with text) button,

- a. Navigate to Document Security.
 - b. Click on the **Add** (image with text) button
 - c. Click on the **Search** button in the **Add Security Member** pop-up window.
 - d. Select the **IPMUserGroup**.
 - e. Click on **Add** (button with text) button.
 - 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.
- The **USER_ID:Search Security** screen is displayed.

Figure 1-103 Add Security Member



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

```
<serviceProvider
class="oracle.security.jps.internal.idstore.generic.GenericIdentityStore
Provider"
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.FCIdentityStoreFac
tory"/>
  <property name="DATASOURCE_NAME" value="jdbc/fcjddevDS"/>
  <property name="INTERNAL_CONTEXT_REQUIRED" value="true"/>
  <property name="INTERNAL_CONTEXT_NAME" value="internalstore"/>
</serviceInstance>
```



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

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

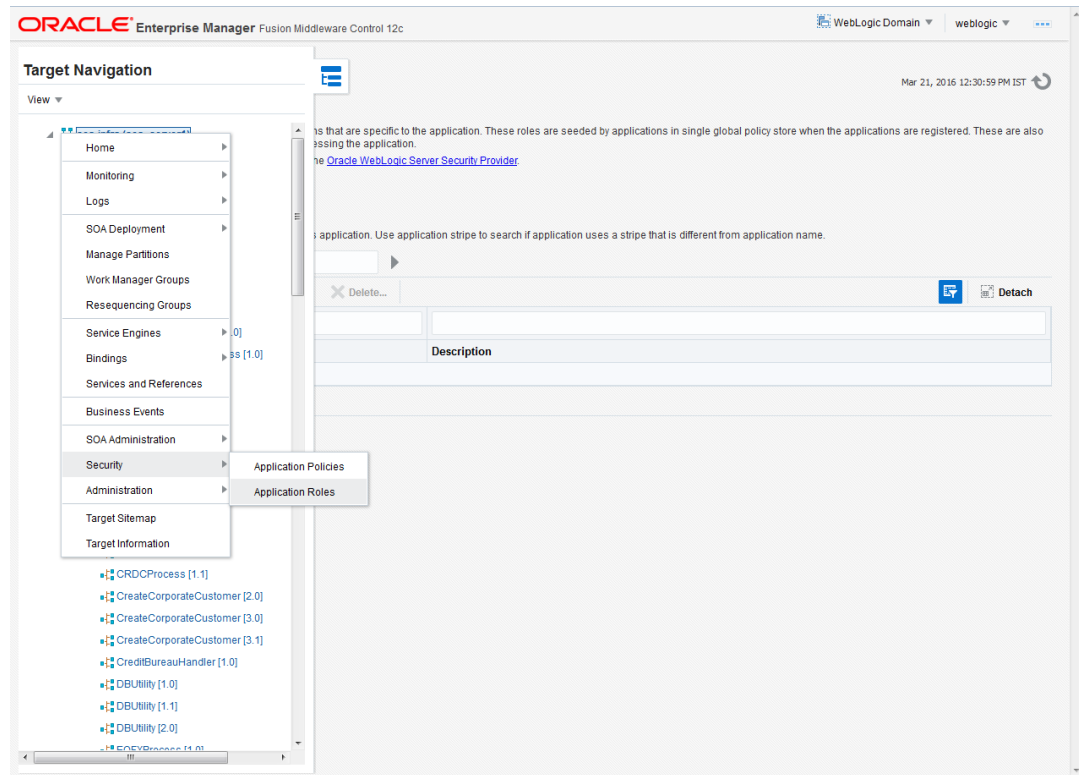
```
<jpsContext name="internalstore">
  <serviceInstanceRef ref="credstore"/>
  <serviceInstanceRef ref="keystore"/>
  <serviceInstanceRef ref="policystore.xml"/>
  <serviceInstanceRef ref="audit"/>
</jpsContext>
```

1.2.11 Configuring Supervisor Roles in EM

This topic explains to configure supervisor roles in the Oracle Enterprise Manager.

1. Right click on soa-infra. Select **Security** and click on **Application Roles**.

The **Application Roles** screen is displayed.

Figure 1-104 Navigation to the Application Roles

2. Search the Application Roles name with the **Starts With** option.
The **soa-infra (Application Roles)** screen is displayed.

Figure 1-105 soa-infra (Application Roles)

Application Roles

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

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

Policy Store Provider

Search

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

Role Name Starts With

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

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

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

3. Select the **SOAAdmin** role and click on **Edit** option.

The **Edit Application Roles : SOAAdmin** screen is displayed.

Figure 1-106 Edit Application Roles : SOAAdmin

Application Roles

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

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

Policy Store Provider

Search

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

Role Name Starts With

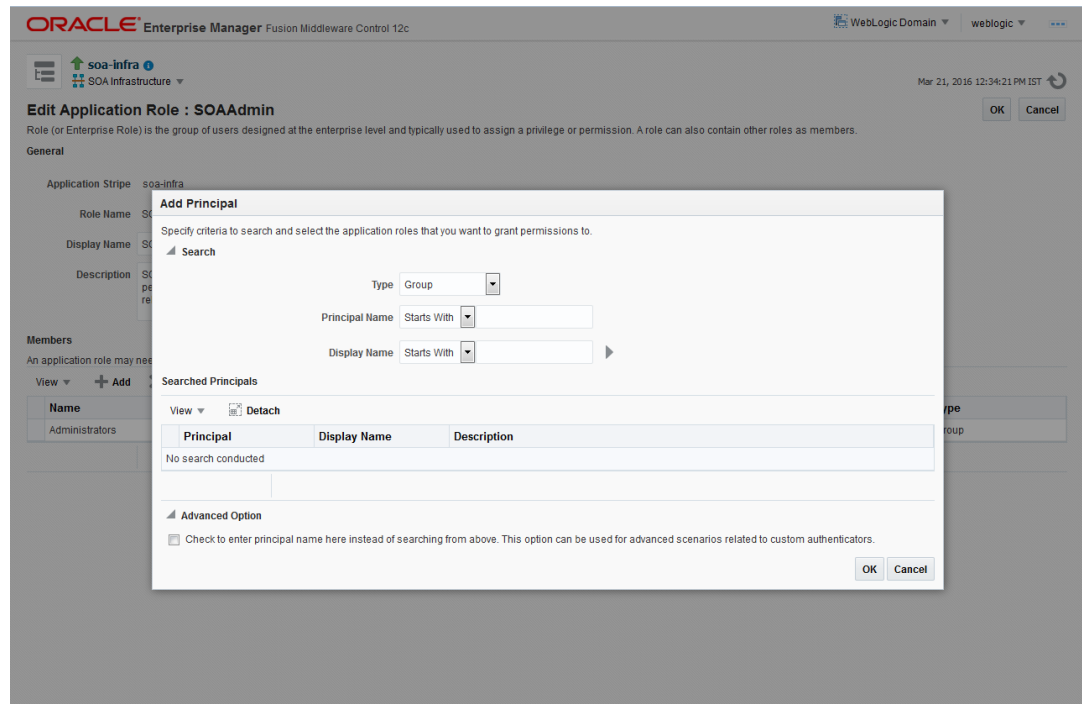
View Create... Create Like... Edit... Delete... Search application roles

Edit the selected application role

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

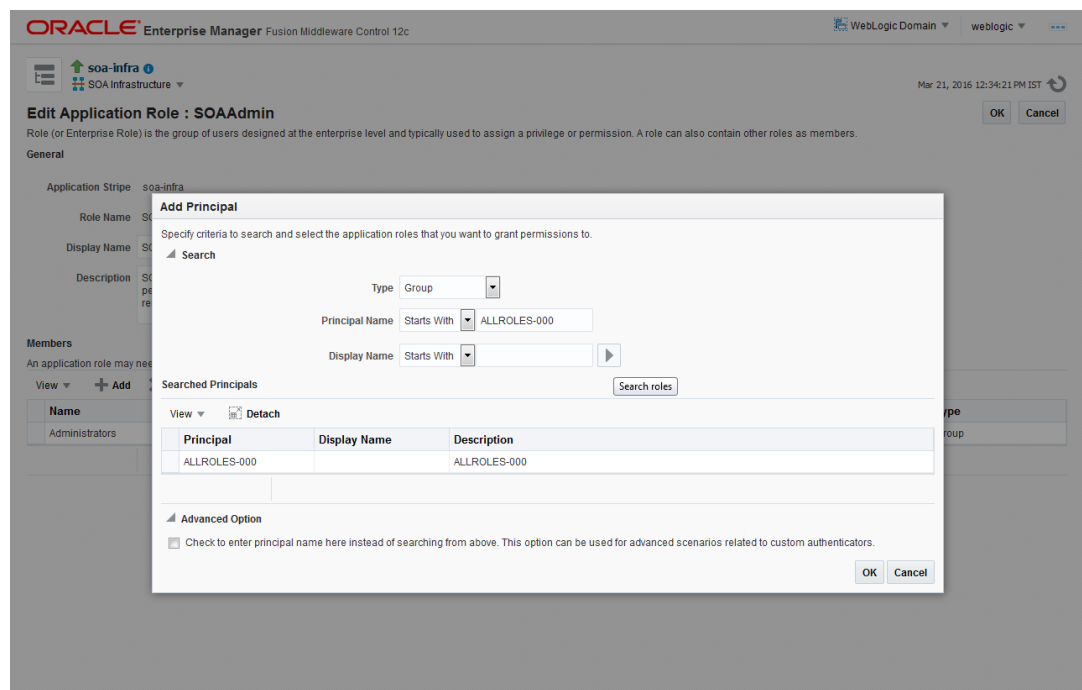
- Click on the **ADD** button and provide the **Type** as **Group** from the drop-down. The **Add Principal** pop-up window is displayed.

Figure 1-107 Application Role - Add Principal



- 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**. The **Add Principal - ALLROLES-000** pop-up window is displayed.

Figure 1-108 Add Principal - ALLROLES-000



6. Click the **OK** button.

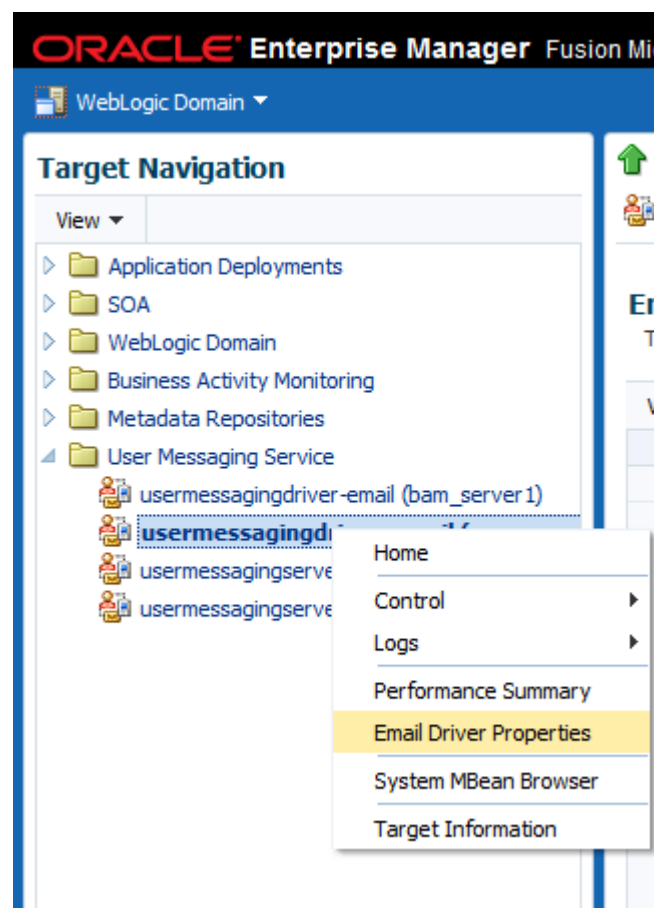
1.2.12 Email Driver Configuration

This topic explains the steps to configure the email driver.

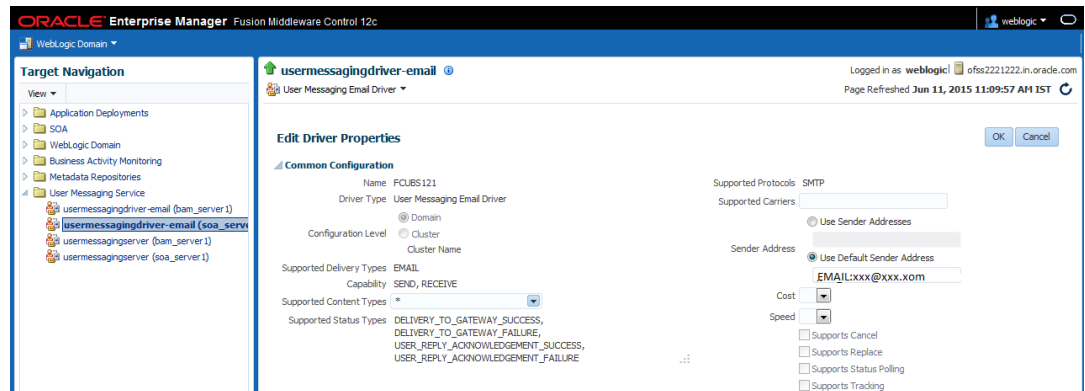
1. Log in to EM console.
2. Navigate to **User Messaging Service** folder.
3. Right click on the **usermessagingdriver-email (soa_server1)**.
4. Click on the **Email Driver Properties**.

The **usermessagingdriver-email** screen is displayed.

Figure 1-109 usermessagingdriver-email



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

Figure 1-110 Edit Driver Properties

7. Select the mail access protocol (IMAP) as per the mail server specification. The **Driver-Specific Configuration** screen is displayed.

Figure 1-111 Driver-Specific Configuration

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			

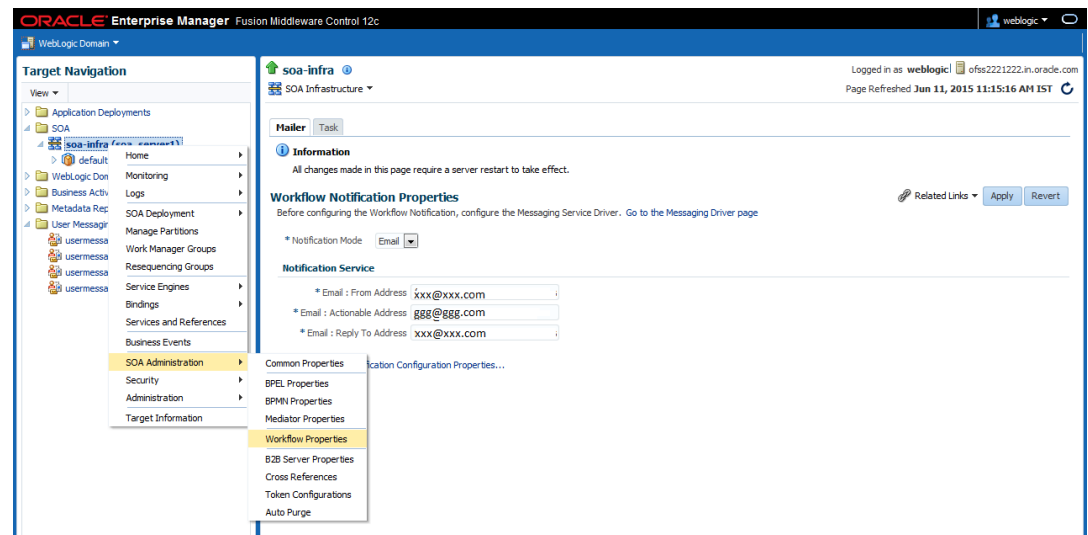
8. Enter the Receive folder in the mailbox (INBOX).
9. Enter the Outgoing Mail Server hostname or IP.
10. Enter the Outgoing Mail Server Port.
11. Enter the Outgoing Default From Address.
12. Enter the Outgoing Username and Password if required.

Figure 1-112 Driver-Specific Configuration - Outgoing ID

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

13. Navigate to the **SOA Administration** and click on the **Workflow Properties**.
The **Workflow Notification Properties** screen is displayed.

Figure 1-113 Workflow Notification Properties



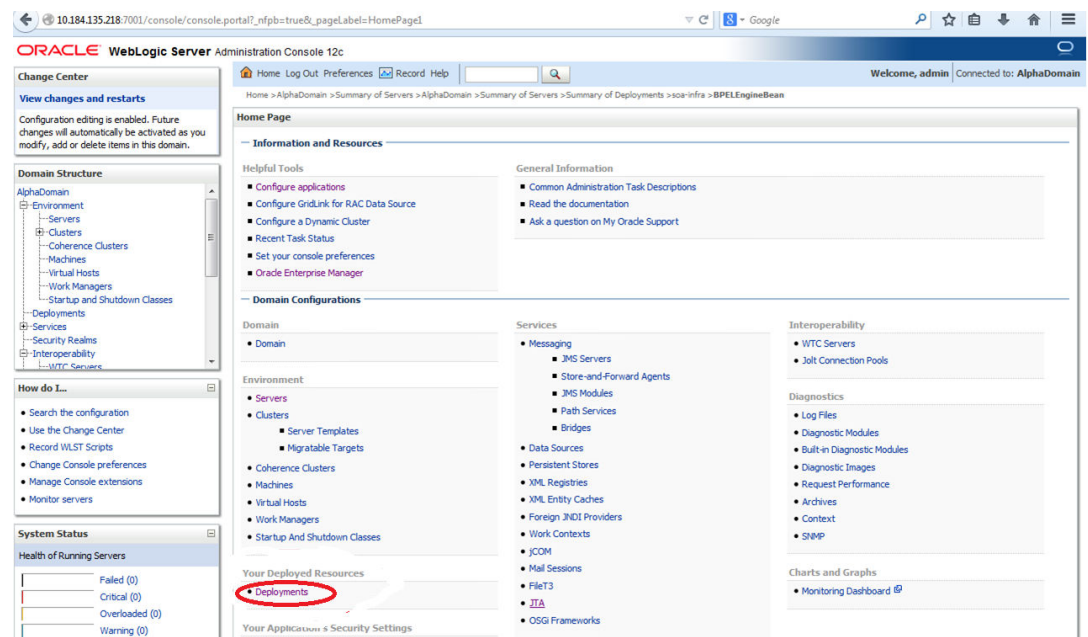
14. Select the **Notification Mode** as **Email/ALL** from the drop-down list.
15. Enter the From Address, Actionable Address, and Reply To Address.

1.2.13 TimeOut Settings for BPEL

This topic explains the TimeOut Settings for BPEL.

1. Login into Console (<http://hostname:port/console>).
The **WebLogic Server** homepage is displayed.

Figure 1-114 WebLogic Server



2. Click on Deployments.
 3. Click on the SOA-INFRA application under deployments.
- The **Summary of Deployments** screen is displayed.

Figure 1-115 Summary of Deployments - So-Infra

Name	State	Health	Type	Targets	Deployment Order
oracle.wsm.console.core.view(1.0,12.1.3.0)	Active		Library	AdmServer, BAMServer, SOAServer	311
oracle.wsm.secdpolicies(2.0,12.1.3)	Active		Library	AdmServer, BAMServer, SOAServer	100
OracleAppsAdapter	Active	OK	Resource Adapter	SOAServer	328
OracleBAMAdapter	Installed		Resource Adapter		329
RI myOracleBPMACServerApp	Active	OK	Enterprise Application	SOAServer	384
RI myOracleBPMComposRulesApp	Active	OK	Enterprise Application	SOAServer	382
RI myOracleBPMProcessRulesApp	Active	OK	Enterprise Application	SOAServer	381
RI myOracleBPMWorkspace	Active	OK	Enterprise Application	SOAServer	383
oracle18n-edf(11.1.1.1.1.0)	Active		Library	AdmServer, BAMServer, SOAServer	100
owasp.esapi(2.0,12.1.3)	Active		Library	AdmServer, BAMServer, SOAServer	100
SAPAdapter	Installed		Resource Adapter		335
RI mySimpleApprovalTaskFlow	Active	OK	Enterprise Application	SOAServer	386
soa-infra	Active	OK	Enterprise Application	SOAServer	350
soa-websaps	Active	OK	Enterprise Application	SOAServer	360
soa-em	Active		Library	AdmServer	100
SocketAdapter	Installed		Resource Adapter		326
state-management-provider-memory-rs-12.1.3	Active	OK	Resource Adapter	AdmServer, BAMServer, SOAServer	100
UDX(11.12.1.3.0.0)	Active		Library	AdmServer, BAMServer, SOAServer	100

4. Click on **BPEL Engine EJB, Configuration** and Set **Transaction TimeOut** to 300.
- The **Summary of BPELEngineBean** screen is displayed.

Figure 1-116 Summary of BPELEngineBean

ageLabel=AppDeploymentsControlPage&_nfpb=true&AppDeploymentsControlPortletexpandN Search ☆ ⌵ ⬇ ⬆ ⌵

	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				
	BPELInstanceManagerBean			EJB		
	BPELKeyGeneratorBean			EJB		
	BPELProcessManagerBean			EJB		
	BPELSensorValuesBean			EJB		
	BPELServerManagerBean			EJB		
	BPELTestInstanceManager			EJB		
	BpmAGProcessBrokerServiceBean			EJB		
	BpmAppServiceBean			EJB		
	BPMDataObjectSecurityService			EJB		
	BPMNActivityManagerBean			EJB		
	BPMNAuditTrailBean			EJB		
	BPMNClusterBean			EJB		

pageLabel=AppApplicationDispatcherPage&AppApplication...oduleHandle("com.bea:Name=soa-infra,Type=AppDeployment;ejb_ob_engine_wls.jar;BPELEngineBean;<none>;EJB")

Figure 1-117 Configuration - Transaction TimeOut

The screenshot displays the Oracle WebLogic Server Administration Console for the BPELDeliveryBean configuration. The left sidebar shows the navigation tree with 'Services' selected. The main panel shows the configuration details for the BPELDeliveryBean, including its name, type, transaction type, and class name. The 'Pool Configuration' section is expanded, showing the 'Initial Beans in Free Pool' set to 100 and 'Max Beans in Free Pool' set to 1000. The 'Idle Timeout' is set to 0. The 'Enterprise Bean Configuration' section is also expanded, showing fields for 'Network Access Point', 'Run As Principal Name', 'Create As Principal Name', 'Remove As Principal Name', 'Passivate As Principal Name', 'JNDI Name', and 'Local JNDI Name'. The 'Dispatch Policy' is set to 'Default'. The 'Transaction Timeout' field is highlighted with a red circle and set to 300 seconds. A 'Save' button is visible at the bottom of the configuration panel.

Name:	BPELDeliveryBean	The name of this bean. More Info...
Type:	stateless	The EJB type (session, entity, or message). More Info...
Transaction Type:	Container	The bean's transaction type. More Info...
EJB Class Name:	com.collaxa.cube.engine.ejb.impl.bpel.BPELDeliveryBean	EJB Class Name More Info...
Pool Configuration		
Initial Beans in Free Pool:	100	The initial number of beans in the free pool. More Info...
Max Beans in Free Pool:	1000	The maximum number of beans in the free pool. When an EJB has been in the free pool for the number of seconds specified in Idle Timeout, and the total number of beans in the free pool approaches the maximum beans in free pool specified in this field, idle beans are removed from the free pool. More Info...
Idle Timeout:	0	The maximum length of time (in seconds) an EJB should remain in the cache or free pool before it is passivated or removed. More Info...
Enterprise Bean Configuration		
Network Access Point:		Custom network channel that the EJB uses for network communications. More Info...
Run As Principal Name:		The security principal to be used as the run-as principal for a bean that has security-identity specified in its ejb-jar.xml file. More Info...
Create As Principal Name:		The principal to be used when ejbCreate would otherwise run with an anonymous principal. More Info...
Remove As Principal Name:		The principal to be used when ejbRemove would otherwise run with an anonymous principal. More Info...
Passivate As Principal Name:		The principal to be used when ejbPassivate would otherwise run with an anonymous principal. More Info...
JNDI Name:		The JNDI name of an EJB, resource, or reference in WebLogic Server. More Info...
Local JNDI Name:		The JNDI name for a bean's local home. More Info...
Dispatch Policy:		Designates which server execute thread pool the EJB should run in. More Info...
Transaction Timeout:	300	The transaction timeout value, in seconds. More Info...

WebLogic Server Version: 11.1.3.0.0
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- Go to EJBs, click on BPELDeliveryBean, Configuration and Set Transaction TimeOut to 300.

The **Summary of BPELDeliveryBean** screen is displayed.

Figure 1-118 Summary of BPELDeliveryBean

Bean Name	Transaction Type
B2BUtilityBean	EJB
BAMActionMDB	EJB
BeamActionMDB	EJB
BottleneckDetectionBean	EJB
BPELActivityManagerBean	EJB
BPELAuditTrailBean	EJB
BPELCacheRegistryBean	EJB
BPELCacheStoreBean	EJB
BPELClusterBean	EJB
BPELDeliveryBean	EJB
BPELDispatcher	EJB
BPELEngineBean	EJB
BPELFinderBean	EJB
BPELInstanceManagerBean	EJB
BPELKeyGeneratorBean	EJB
BPELProcessManagerBean	EJB
BPELSensorValuesBean	EJB
BPELServerManagerBean	EJB
BPELTestInstanceManager	EJB
BpmAGProcessBrokerServiceBean	EJB
BpmAppServiceBean	EJB
BPMDataObjectSecurityService	EJB
BPMNActivityManagerBean	EJB
BPMNAuditTrailBean	EJB
BPMNClusterBean	EJB
BPMNDeliveryBean	EJB
BPMNDispatcherBean	EJB
BPMNEngineBean	EJB
BPMNFinderBean	EJB

Figure 1-119 Enterprise Bean Configuration

Enterprise Bean Configuration

Type: stateless
Transaction Type: Container
EJB Class Name: com.collaxa.cube.engine.ejb.impl.bpel.BPELDeliveryBean

Pool Configuration

Initial Beans in Free Pool: 200
Max Beans in Free Pool: 1000
Idle Timeout: 0

Enterprise Bean Configuration

Network Access Point:
Run As Principal Name:
Create As Principal Name:
Remove As Principal Name:
Passivate As Principal Name:
JNDI Name:
Local JNDI Name:
Dispatch Policy:
Transaction Timeout: 1800

6. Login to Console and click on JTA under **Services**.

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 **Settings for dev_domain JTA** screen is displayed.

Figure 1-120 Settings for dev_domain - JTA

The screenshot shows the Oracle WebLogic Server Administration Console for the 'dev_domain'. The 'JTA' tab is selected under the 'Configuration' section. The 'Timeout Seconds' field is highlighted with a red circle and set to 3600. Other fields include 'Abandon Timeout Seconds' (86400), 'Before Completion Iteration Limit' (10), 'Max Transactions' (10000), 'Max Unique Name Statistics' (1000), and 'Checkpoint Interval Seconds' (300). The 'Write recovery logs when determiners configured' checkbox is checked. The 'Determiners' field is empty. The 'Forget Heuristics' checkbox is checked.

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

8. Login in to EM console (<http://host:port/em>).
9. Right click on the **soa-infra (SOAServer)**.
10. Navigate to the **SOA Administration** and click on the **BPEL Properties**, **MoreConfigproperties** and **SyncMaxWaitTime**. Change the **SyncMaxWaitTime** to 200 secs.

The **soa-infra** screen is displayed.

Figure 1-121 soa-infra

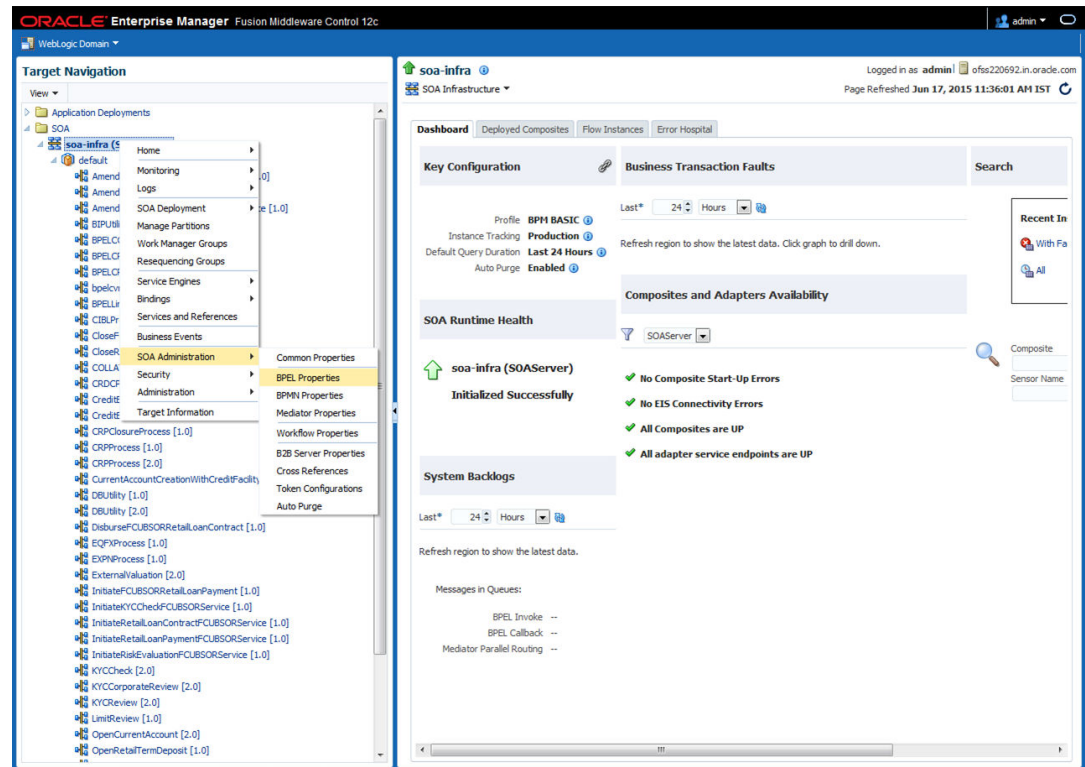
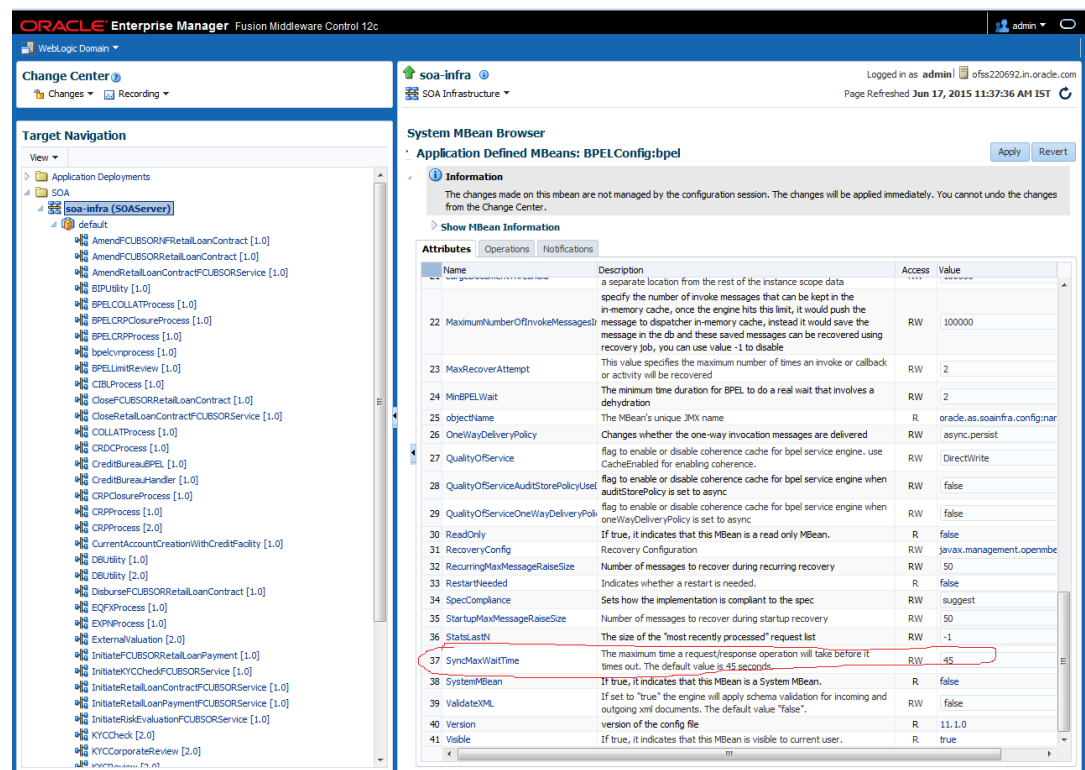


Figure 1-122 System MBean Browser



1.3 Integrate Oracle FLEXCUBE IS and Scheduler

This topic explains Integrating Oracle FLEXCUBE IS and Scheduler.

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

- [Running Backend Scripts](#)
This topic explains the steps to run the backend scripts.

1.3.1 Running Backend Scripts

This topic explains the steps to run the 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: <https://www.quartz-scheduler.org/downloads/>.
2. Extract the **gz** file.
3. Open the folder Quartz-Latest Qualified Version \docs\dbTables folder and run the tables_oracle.sql (this is specific to Oracle Database) in the schema.



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

1.4 Integrating Oracle FLEXCUBE IS and BIP Reports

This topic explains Integrating Oracle FLEXCUBE IS and BIP Reports.

You can integrate Oracle FLEXCUBE IS and BIP reports. The details are available in **BIP Web Service Reports**.

- [Deploy Application through Application Server's Admin Console](#)
This topic explains Deployment from Weblogic Administration Console.

1.4.1 Deploy Application through Application Server's Admin Console

This topic explains Deployment from Weblogic Administration Console.

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

1.5 Integrate Oracle FLEXCUBE IS and MBean

This topic explains to integrate Oracle FLEXCUBE IS and MBean.

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

- [Startup Script Modification](#)
This topic explains the Startup Script Modification.

1.5.1 Startup Script Modification

This topic explains the Startup Script Modification.

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

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

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

2. Restart the Weblogic server.