

Setting up Plug-Ins  
Oracle FLEXCUBE Investor Servicing  
Release 12.1.0.0.0  
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# 1. Setting up Plug-Ins

## 1.1 Introduction

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

## 1.2 Integrating Oracle FLEXCUBE 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 'FCBPELCIS.jar' file. You need to complete the following tasks before deploying Oracle FLEXCUBE IS EAR file.

### 1.2.1 Configuring JPS

For configuring JPS, you need to follow the steps given below:

1. Go to the location –

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

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

```
<serviceProvider class="com.ofss.fcc.bpel.security.jps.service.FCIIdentityServiceProvider"
name="idstore.db.provider" type="IDENTITY_STORE">
```

```
<description>DB IdentityStore Provider</description>
```

```
</serviceProvider>
```

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

```
<serviceInstance provider="idstore.db.provider" name="idstore.db">
```

```
<property value="flexcube" name="subscriber.name"/>
```

```
<property value="jdbc/fcjdevDS" name="datasource"/>
```

```
</serviceInstance>
```

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

```
<jpsContext name="flex">
```

```
<serviceInstanceRef ref="credstore"/>
```

```
<serviceInstanceRef ref="keystore"/>
```

```
<serviceInstanceRef ref="policystore.xml"/>
```

```
<serviceInstanceRef ref="audit"/>
```

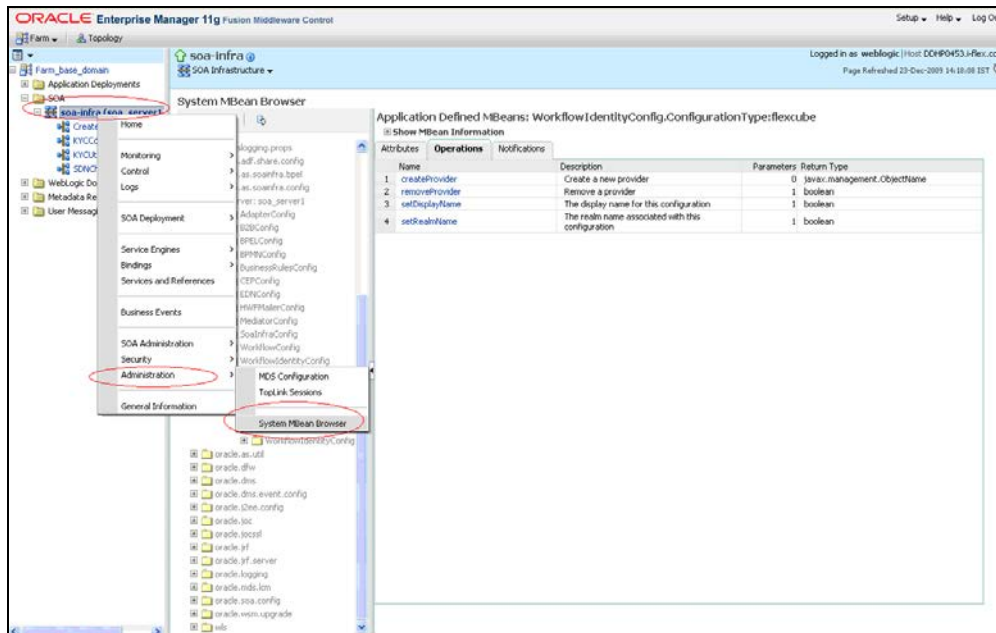
```
<serviceInstanceRef ref="idstore.db"/>
```

```
</jpsContext>
```

## 1.2.2 Configuring Work Flow Identity

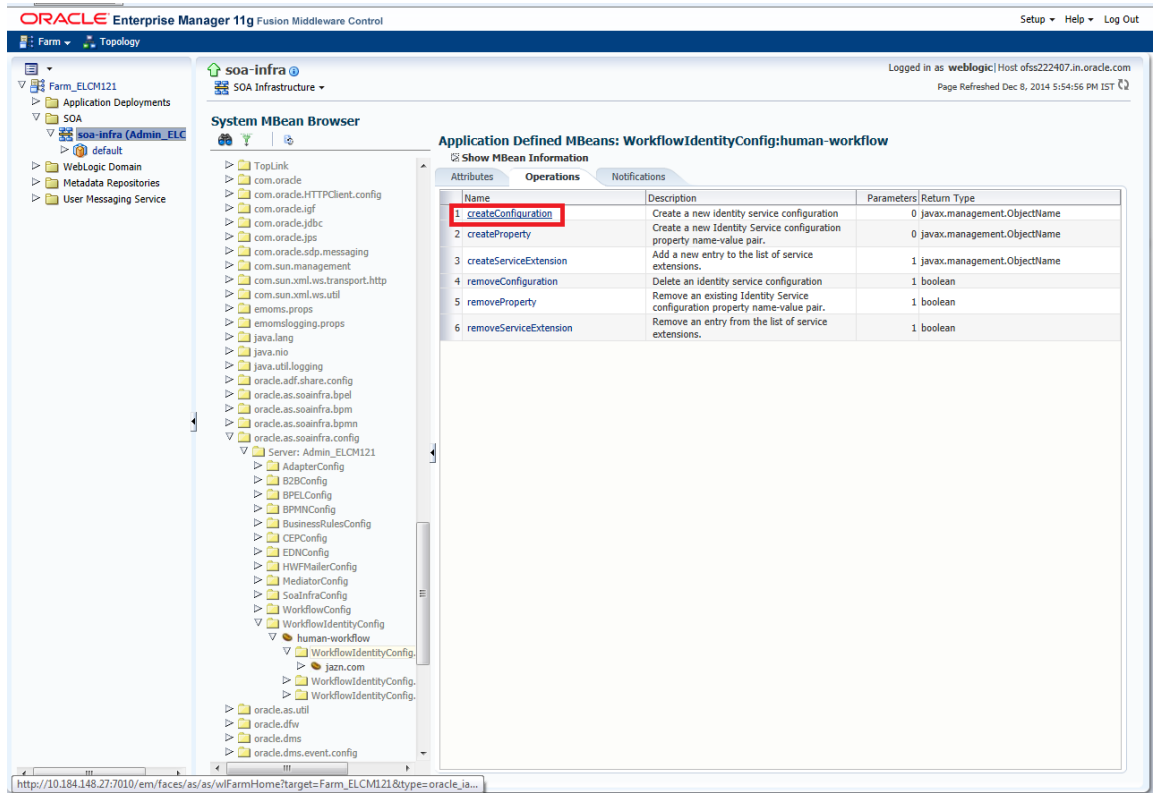
You need to configure the workflow identity details from Enterprise Manager Console of the SOA. To configure workflow identity details, follow the steps given below.

1. Login to EM Console. Expand the SOA.

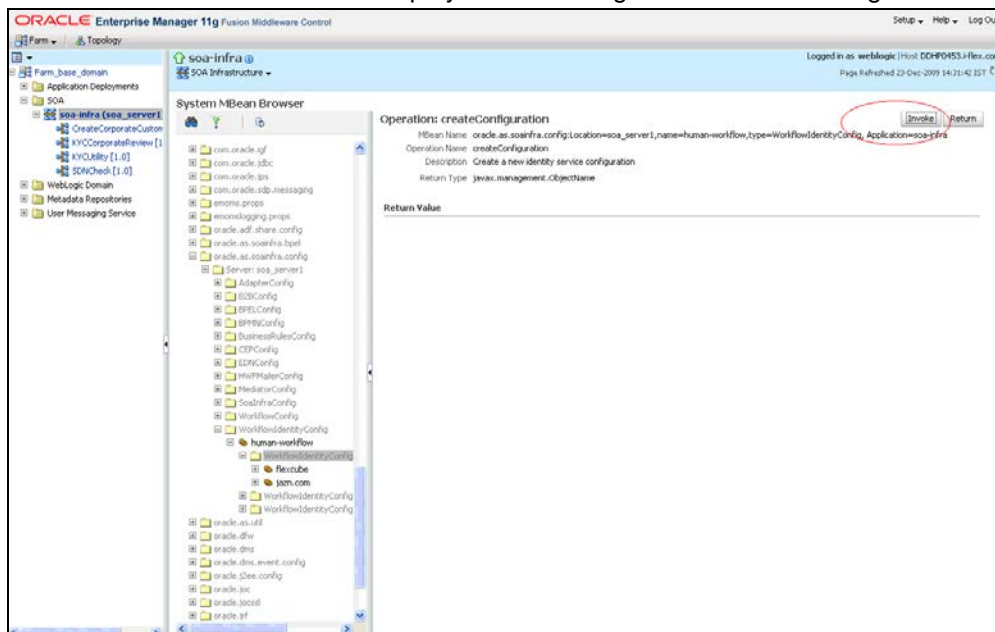


2. Right click 'soa-infra (soa-server1)', choose 'Administration' and click 'System MBean Browser' under it.
3. Further, under System MBean Browser, go to 'oracle.as.soainfra.config > Server: soa\_server1 > WorkflowIdentityConfig > human-workflow'.

- Under the 'Operations' tab, choose 'createConfiguration' option. The following screen is displayed.

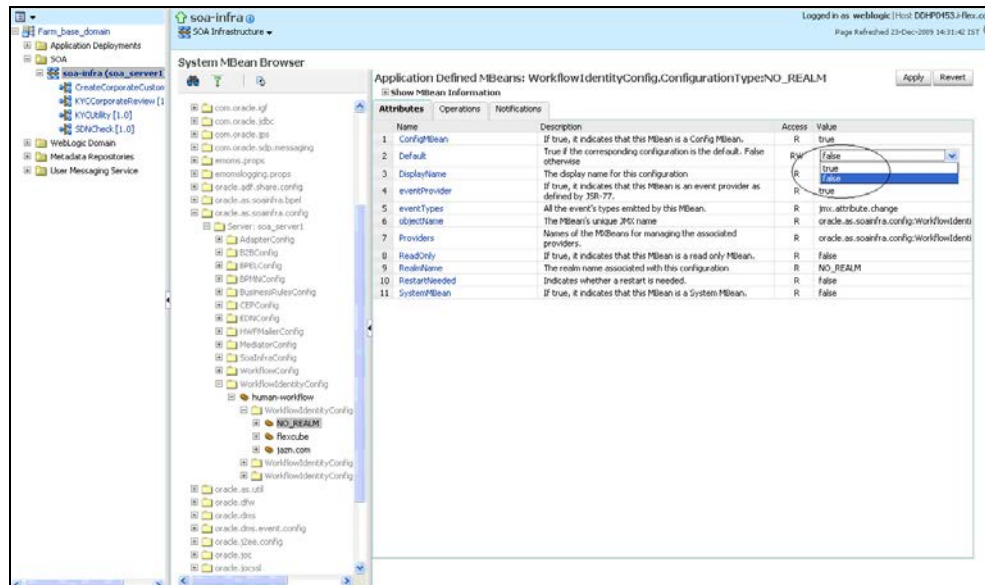


- Click 'Invoke' button. The SOA displays the following confirmation message.

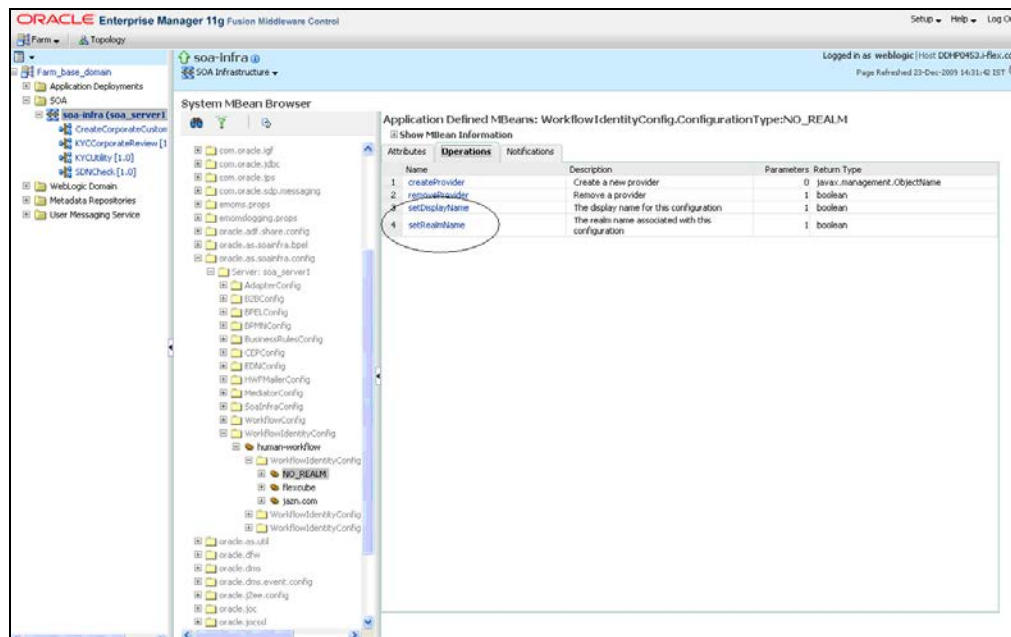


Confirmation  
Operation executed successfully.

- Refresh 'MBean' browser. Go to 'WorkflowIdentityConfig.ConfigurationType' under 'human-workflow'.
- Click 'NO\_REALM'. On the right side, select 'Attributes' tab and change the value of 'Default' from NO\_REALM to 'true'.



- Further, under the 'Operations' tab, click 'setRealmName'.



- The following screen is displayed:

Operation: setRealmName Invoke Revert Return

MBean Name oracle.as.soainfra.config:Location=soa\_server1,WorkflowIdentityConfig=human-workflow,  
name=flexcube,type=WorkflowIdentityConfig.ConfigurationType,Application=soa-infra

Operation Name setRealmName

Description The realm name associated with this configuration

Return Type boolean

Parameters

Name	Type	Value
p1	java.lang.String	flexcube

Return Value

10. Specify the value of the parameter as 'flexcube' and click 'Invoke' button. realmname does not get updated immediately. Update to new realm name takes some time or requires a restart.

11. Refresh the 'MBean' browser. Go to flexcube > WorkflowIdentityConfig.ConfigurationType.ProviderType > oracle.soa.management.config.identity.ProviderType@.... Under the 'Attributes' tab, you need to make sure that the values of the following attributes are as per the table below:

Attribute	Value
Name	JpsProvider1
PropertyType	JPS
Service	Identity

System MBean Browser

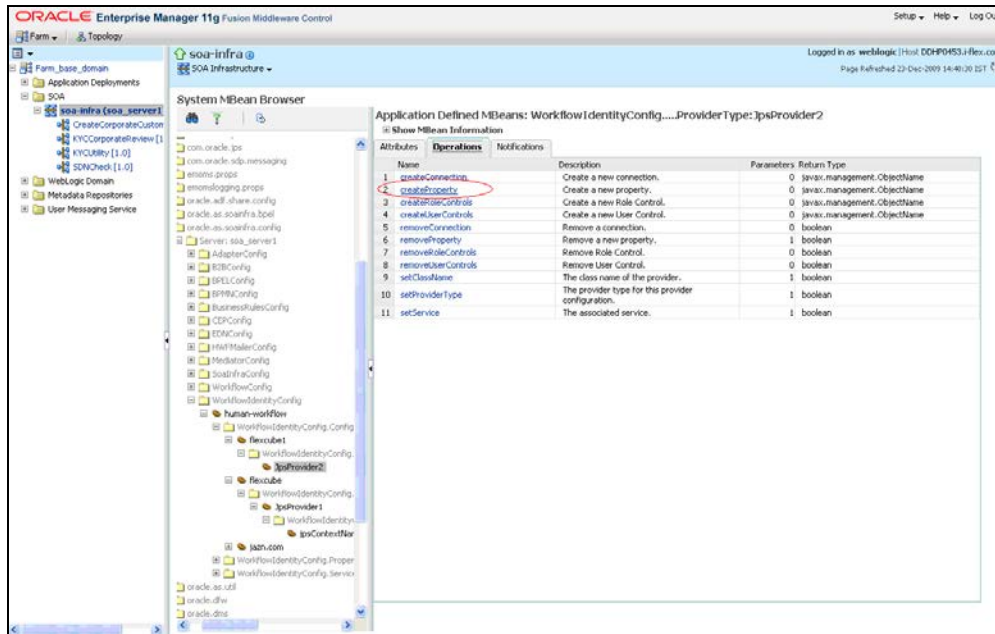
Application Defined MBeans: WorkflowIdentityConfig.....ProviderType:oracle.....ProviderType@Bfcad2 Apply Revert

Show MBean Information

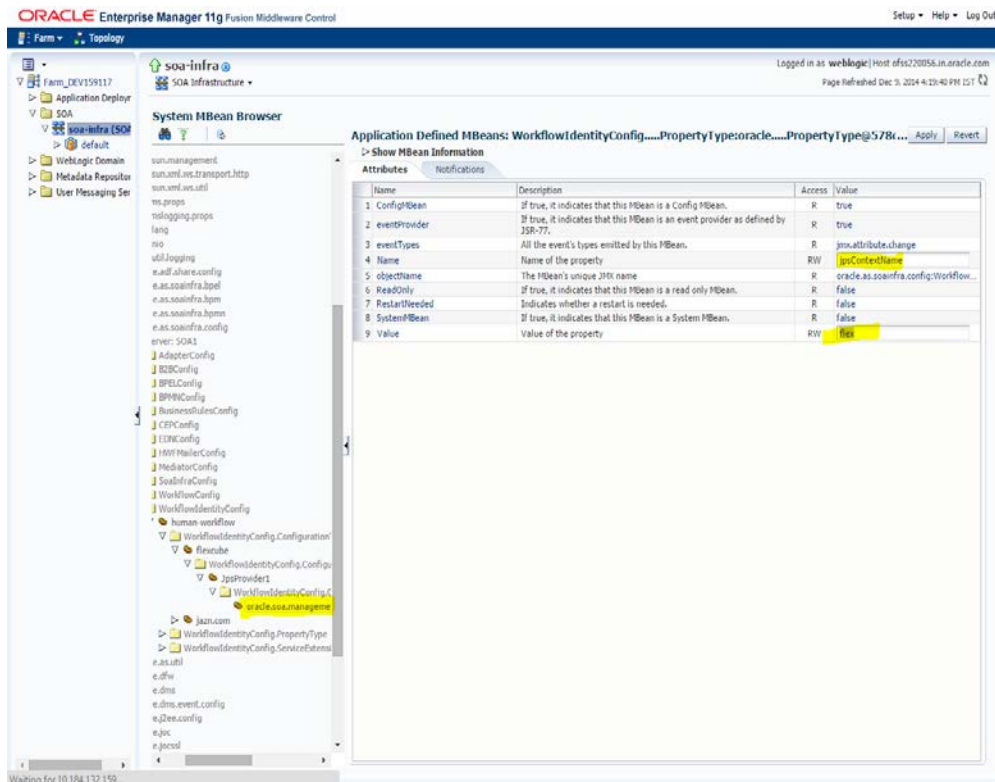
Attributes Operations Notifications

Name	Description	Access	Value
1 ClassName	The class name of the provider.	R	
2 ConfigMBean	If true, it indicates that this MBean is a Config MBean.	R	true
3 Connection	Name of the MBean for managing the associated Connection.	R	
4 eventProvider	If true, it indicates that this MBean is an event provider as defined by JSR-77.	R	true
5 eventTypes	All the event's types emitted by this MBean.	R	jmx.attribute.change
6 Name	The name of the provider.	RW	JpsProvider1
7 objectName	The MBean's unique JMX name	R	oracle.as.soainfra.config:WorkflowIdentityConfig
8 Properties	Names of the MBeans for managing the associated properties.	R	
9 ProviderType	The provider type for this provider configuration.	R	JPS
10 ReadOnly	If true, it indicates that this MBean is a read only MBean.	R	false
11 RestartNeeded	Indicates whether a restart is needed.	R	false
12 RoleControls	Name of the MBean for managing the associated Role Control.	R	
13 Service	The associated service.	R	Identity
14 SystemMBean	If true, it indicates that this MBean is a System MBean.	R	false
15 UserControls	Name of the MBean for managing the associated User Control.	R	

12. Under 'Operations' tab, select the operation 'CreateProperty' and click 'Invoke' button. A new Property is created under 'JpsProvider1'.



13. Select the new property and set its Name and Value attribute as mentioned in the below table



Name	Value
jpsContextName	flex





The value 'flex' should match the value given for 'jpsContext' during JPS configuration.

14. From the 'System MBean Browser' select 'jazzn.com'.

The screenshot shows the 'System MBean Browser' window. On the left, a tree view shows the hierarchy of MBeans, with 'jazzn.com' selected under 'WorkflowIdentityConfig'. The main pane displays the 'Attributes' tab for the selected MBean. The table below represents the data shown in the 'Attributes' tab:

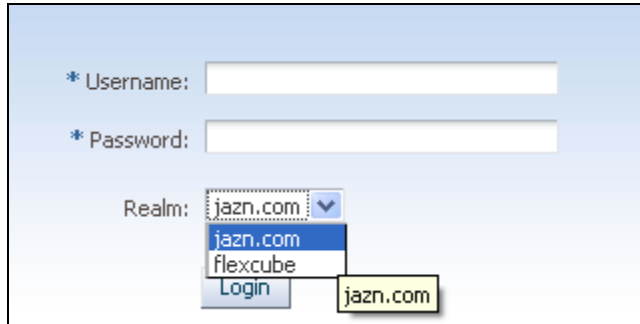
Name	Description	Access	Value
1 ConfigMBean	If true, it indicates that this MBean is a Config MBean.	R	true
2 Default	True if the corresponding configuration is the default. False otherwise	RW	false
3 DisplayName	The display name for this configuration	R	
4 eventProvider	If true, it indicates that this MBean is an event provider as defined by JSR-77.	R	true
5 eventTypes	All the event's types emitted by this MBean.	R	jmx.attribute.change
6 objectName	The MBean's unique JMX name	R	oracle.as.soainfra.config:WorkflowI
7 Providers	Names of the MBeans for managing the associated providers.	R	oracle.as.soainfra.config:WorkflowI
8 ReadOnly	If true, it indicates that this MBean is a read only MBean.	R	false
9 RealmName	The realm name associated with this configuration	R	jazzn.com
10 RestartNeeded	Indicates whether a restart is needed.	R	false
11 SystemMBean	If true, it indicates that this MBean is a System MBean.	R	false

15. Under 'Attributes' tab, change the value of the attribute 'Default' to 'false'.

16. Now, restart the Weblogic and SOA servers. After restarting the servers, make sure the structure is as follows.

The screenshot shows the 'System MBean Browser' window. The tree view on the left is expanded to show the 'jpsContextName' attribute under the 'jazzn.com' MBean. A red box highlights the 'jpsContextName' attribute.

17. Launch the 'SOA Worklist App' using the following URL:  
http://(IP\_Address):(soa\_server-port\_no)/integration/worklistapp  
You will get the login page.



18. Under Realm, the drop-down list should show the options 'flexcube' and 'jazn.com'. Verify the details.

### 1.2.3 Custom Provider Configuration

If the EAR has been created with BPEL as a PlugIn then along with FCIS EAR file, Installer creates two JAR files named as FCBPELCIS.jar and FCISAuthenticationProvider.jar. Before deploying FCIS EAR file following tasks should be completed.

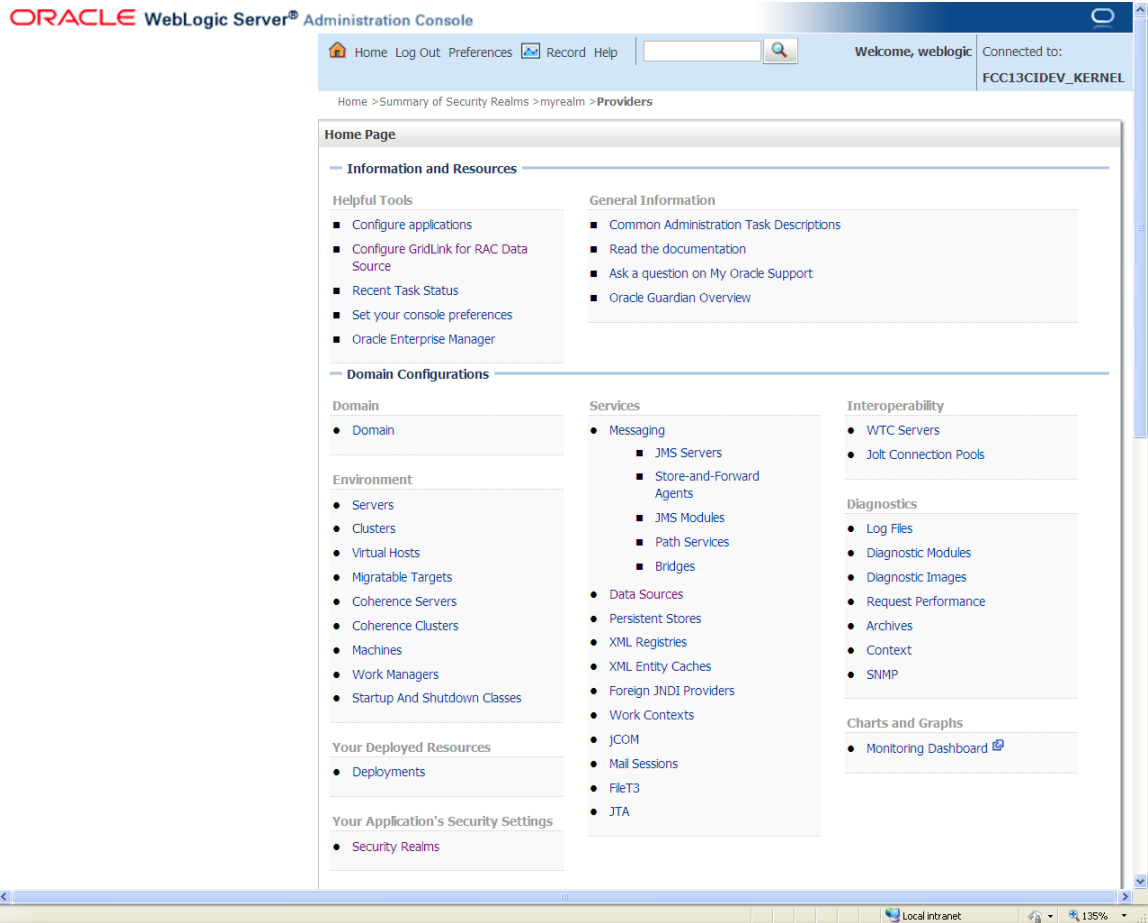
Custom Provider configuration has to be done from the weblogic console of SOA or manually update the config.xml of the soa domain.

Step 1 : Along with FCIS Ear file, Installer creates FCISAuthenticationProvider.jar file. Copy this files to <MIDDLEWARE\_HOME>\wlserver\_10.3\server\lib\mbeantypes

Step 2 : Restart the Admin Server

Step 3 :Login to the Console

Step 4 :Click on Security Realms.



Step 5 : Click on myrealm.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: FCC13CIDEV\_KERNEL

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

### Summary of Security Realms

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

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

[Customize this table](#)

**Realms (Filtered - More Columns Exist)**

New Delete Showing 1 to 1 of 1 Previous Next

<input type="checkbox"/>	Name	Default Realm
<input type="checkbox"/>	myrealm	true

New Delete Showing 1 to 1 of 1 Previous Next

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

**Domain Structure**  
FCC13CIDEV\_KERNEL  
Environment  
Deployments  
Services  
**Security Realms**  
Interoperability  
Diagnostics

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

Step 7: Give Provider name as FCJCustomProvider and type as FCISUserAuthenticator.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: Authenticator\_domain

Home > Summary of Security Realms > myrealm > Providers

### Create a New Authentication Provider

OK Cancel

**Create a new Authentication Provider**

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

The name of the authentication provider.

\* Name: FCJCustomProvider

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

Type: FCISUserAuthenticator

OK Cancel

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

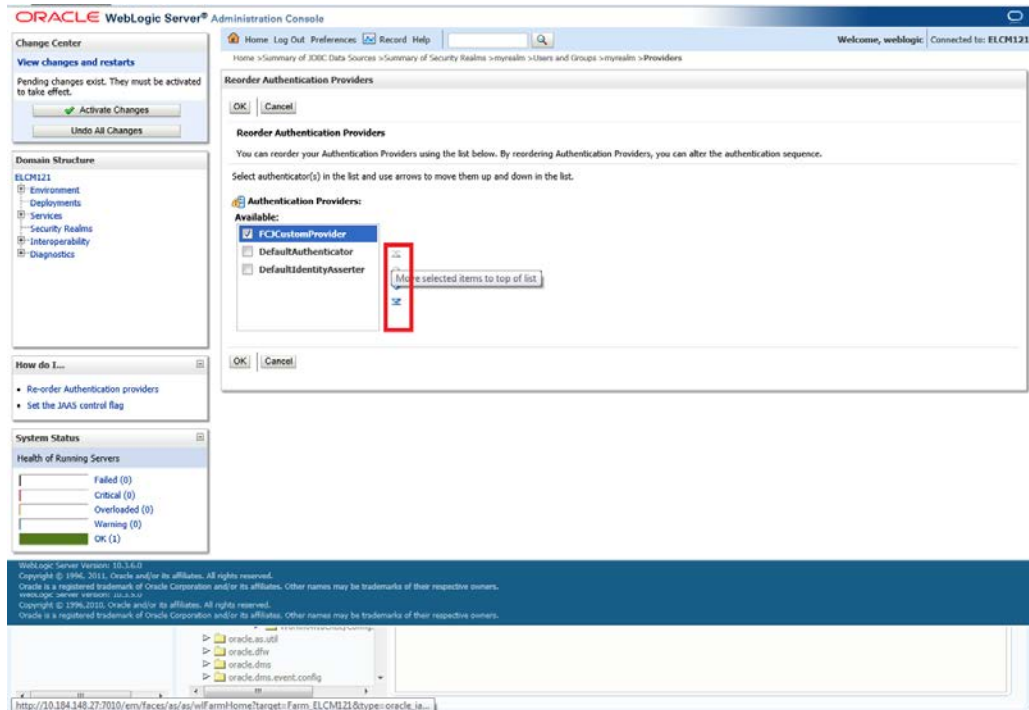
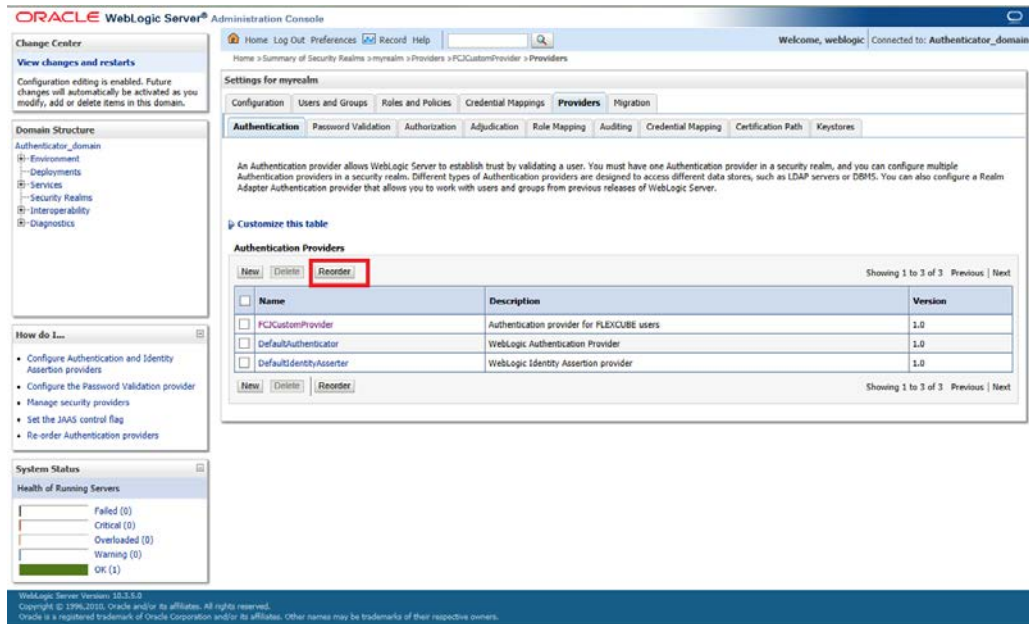
**Domain Structure**  
Authenticator\_domain  
Environment  
Deployments  
Services  
Security Realms  
Interoperability  
Diagnostics

**How do I...**  
Manage security providers  
Configure Authentication and Identity Assertion providers

**System Status**  
Health of Running Servers  
Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (1)

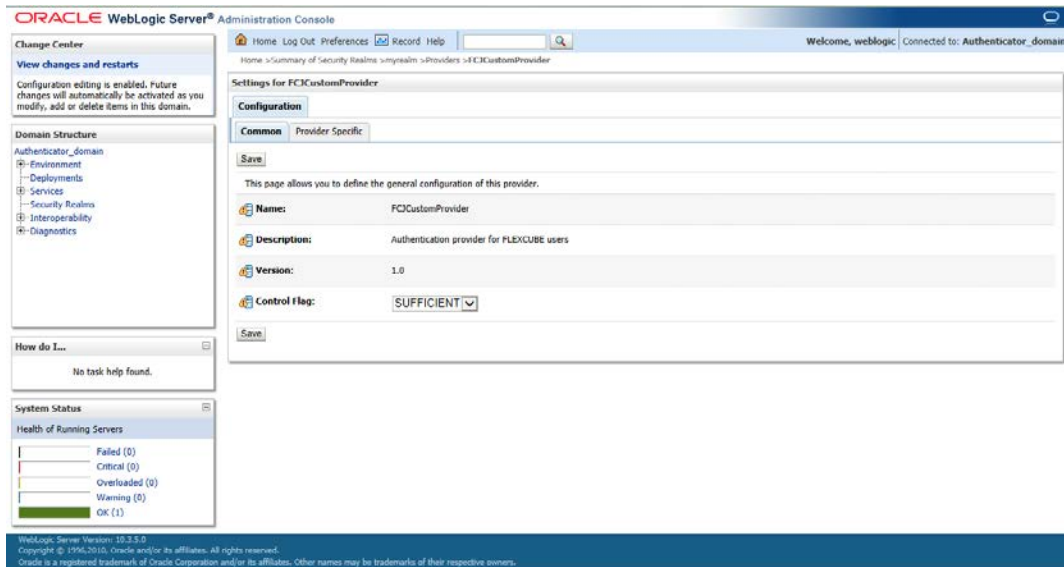
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Step 8 : Click Reorder to bring provider to first of all providers and click OK.



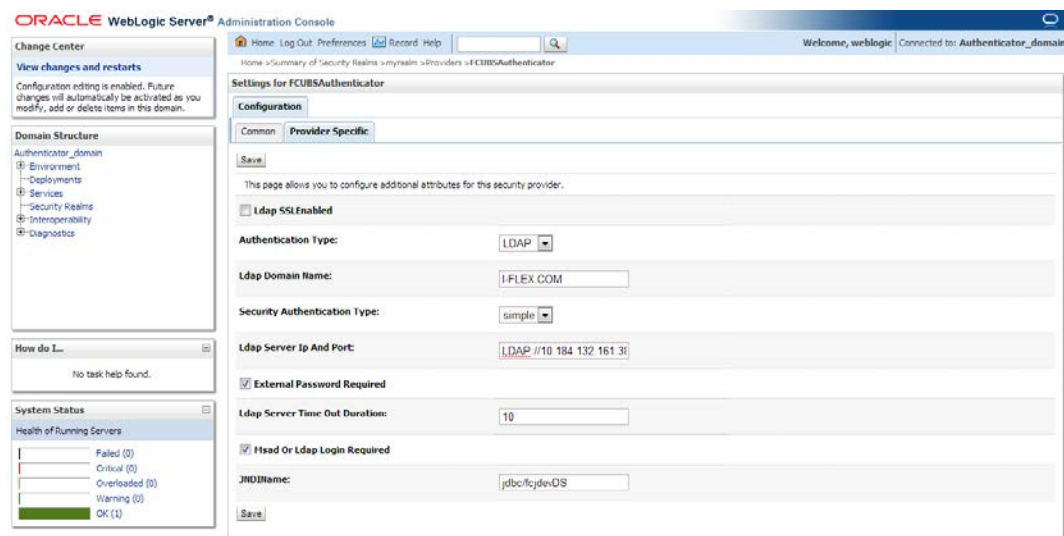
Step 9: Click on FCJCustomProvider.

Step 10: In Common tab change the control flag to "SUFFICIENT"



Step 11: In Provider Specific tab

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



(Step 12 is followed, if step 11 is failed)

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

- 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>I-FLEX.COM</n1:ldap-domain-name>
<n1:ldap-server-time-out-duration>0</n1:ldap-server-time-out-duration>
</sec:authentication-provider>

```

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

### 1.2.4 Configuring CIS

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

1. Along with the Oracle FLEXCUBE IS EAR file, the Installer creates 'FCBPELCIS.jar' file.
2. Create a folder by name 'classes' at the location  
'<MIDDLEWARE\_HOME>Oracle\_SOA1\soa\modules\oracle.soa.ext\_11.1.x'.
3. Extract the file 'FCBPELCIS.jar' and copy the content of the folder 'com' to:  
'<MIDDLEWARE\_HOME>Oracle\_SOA1\soa\modules\oracle.soa.ext\_11.1.x\classes'.
4. Now, navigate to the location  
'<MIDDLEWARE\_HOME>Oracle\_SOA1\soa\modules\oracle.soa.ext\_11.1.x\classes\com\ofss\fcc\bpel' and delete the folders 'dao' and 'security'.
5. Navigate to the location  
'<MIDDLEWARE\_HOME>Oracle\_SOA1\soa\modules\oracle.soa.ext\_11.1.x\classes\com\ofss\fcc\bpel\cac'. Edit the properties file 'CISProperties.properties' and update 'JNDI.name' with the JNDI name defined in the properties file 'fcubs.properties'.
6. Open FCBPELCIS.jar and navigate to com/ofss/fcc/bpel/ and delete the folder named cac.
7. Copy 'FCBPELCIS.jar' to  
'<MIDDLEWARE\_HOME>/user\_projects/domains/<domain\_name>/lib
8. Once the above steps are completed, restart the server.

### 1.2.5 Configuring DBAdapter

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

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



**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.

Name	State	Health	Type	Deployment Order
adf.oracle.domain(1.0.11.1.1.2.0)	Active		Library	100
adf.oracle.domain.webapp(1.0.11.1.1.2.0)	Active		Library	100
AsAdapter	Active	OK	Resource Adapter	324
db2ai	Active	OK	Enterprise Application	313
db2ai	Prepared	OK	Enterprise Application	100
composer	Active	OK	Enterprise Application	313
DbAdapter	Active	OK	Resource Adapter	322
DefaultTaskFlow	Active	OK	Enterprise Application	314
OMS Application (1.1.1.1.1.0)	Active	OK	Web Application	9
entf	Active	Warning	Enterprise Application	100
ent	Active	OK	Enterprise Application	400
ent	Active		Library	100
ent	Active		Library	100

2. In the Deployments table, select 'DbAdapter'. You will be navigated to 'Settings for DbAdapter'.
3. Click 'Configuration' tab and select 'Outbound Connection Pools' under it.

**Settings for DbAdapter**

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

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

This page displays a table of Outbound Connection Pool groups and instances for this resource adapter. The top level entries in the table represent Outbound Connection Pool groups. Groups are listed by connection factory interface and the instances are listed by their J2EE 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.

Groups and Instances	Connection Factory Interface
java:resource.db.ConnectionFactory	java:resource.db.ConnectionFactory



- Under 'Groups and Instances', click and expand 'javax.resource.cci.ConnectionFactory'.
- Click 'New' and select 'javax.resource.cci.ConnectionFactory' in Outbound Connection Group and click Next .

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DEV159117

**Create a New Outbound Connection**

Back Next Finish Cancel

**Outbound Connection Group**

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

**Outbound Connection Groups**

Showing 1 to 1 of 1 Previous Next

Outbound Connection Group ↕
javax.resource.cci.ConnectionFactory

Showing 1 to 1 of 1 Previous Next

Back Next Finish Cancel

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- Define 'JNDI Name' as 'eis/DB/FCCDEV' and click on 'Finish'.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DEV159117

**Create a New Outbound Connection**

Back Next Finish Cancel

**JNDI name for Outbound Connection Instance**

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

\* Indicates required fields

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

**JNDI Name:** eis/DB/FCCDEV

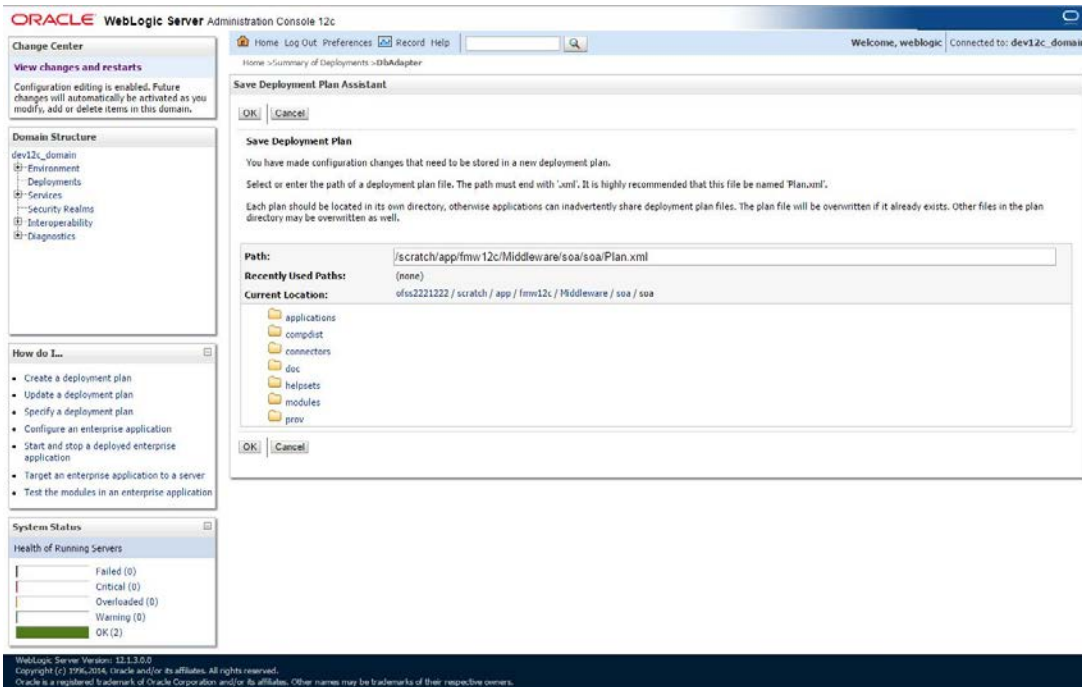
Back Next Finish Cancel

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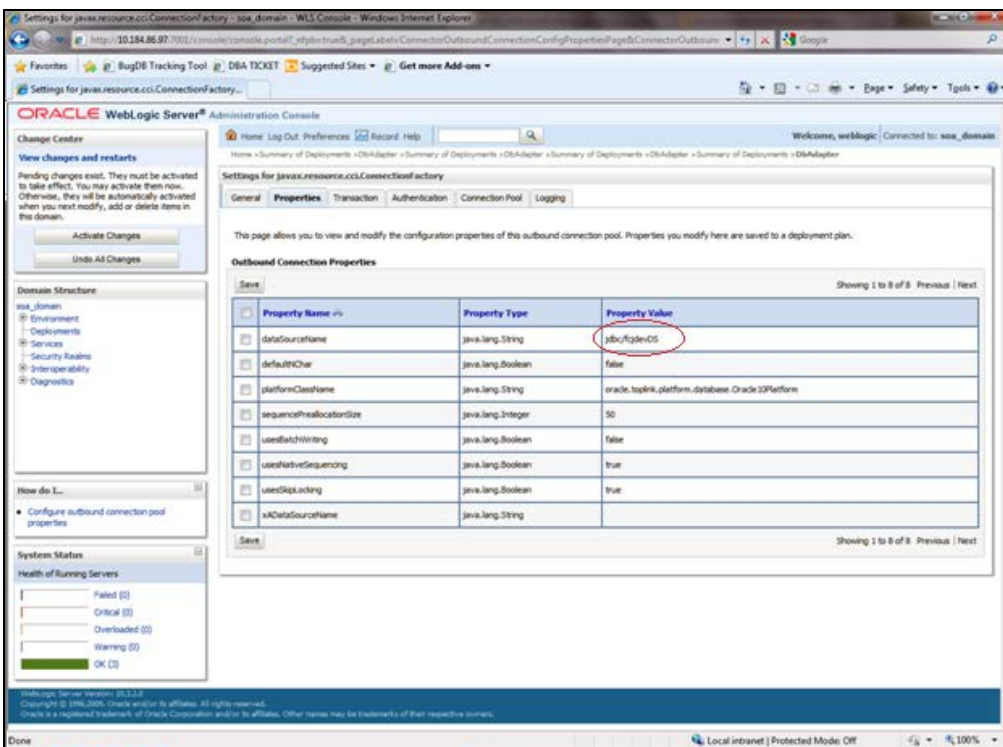


The 'jndi name' should be the same as the one in 'Dbutility sub-process'.

If setup is done for the first time, below mentioned screen will be displayed (optionally the Path can be changed)



- Click 'DbAdapter' again. The new JNDI name is listed.
- Click on the hyperlink 'eis/DB/FCCDEV'.
- Click the 'Property Value' field for the 'DataSourceName' and update the application JNDI reference given during fcubs property file creation (jdbc/fcdevDS) and then press 'Enter' key.



10. Same set of steps from 3 to 9 to be followed with JNDI name 'eis/DB/FCCBPELConn'

11. Save and restart the Adminserver.

## 1.2.6 BIP Interactive reports configuration

- 1) Login to the BIP domain console, `http/s:<hostname>:<port>/console`.
  - Navigate to security realms → myrealm → Providers and add the FCJCustomProvider. Follow the step 1.2.3 to add the "FCJCustomProvider".

The screenshot displays the Oracle WebLogic Server Administration Console. The left sidebar contains navigation panels for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main content area is titled 'Settings for myrealm' and shows the 'Providers' tab. Below this, there is a table of 'Authentication Providers' with columns for Name, Description, and Version. The table lists three providers: FCJCustomProvider, DefaultAuthenticator, and DefaultIdentityAsserter. The FCJCustomProvider is highlighted. The bottom of the console shows the WebLogic Server Version (10.3.6.0) and copyright information.

Name	Description	Version
FCJCustomProvider	Authentication provider for FLEXCUBE users	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

After adding,

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

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: bifoundation\_domain

Home > Summary of Security Realms > myrealm > Users and Groups

**Settings for myrealm**

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

**Users** Groups

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.

**Customize this table**

**Users**

New Delete Showing 1 to 10 of 1000 Previous Next

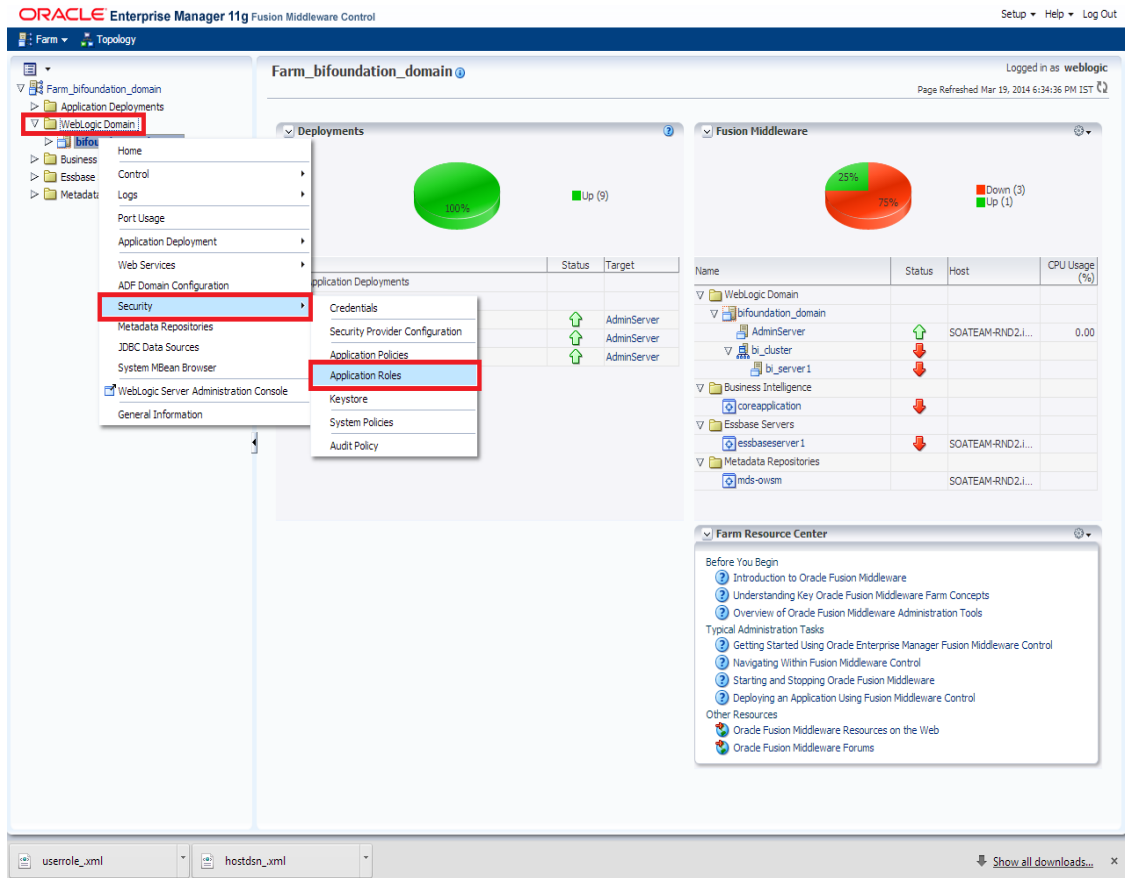
<input type="checkbox"/>	Name	Description	Provider
<input type="checkbox"/>	000ANT1	Default Admin User 1	FCJCustomProvider
<input type="checkbox"/>	11111RM_3	Sweta	FCJCustomProvider
<input type="checkbox"/>	11111RM_4	RM	FCJCustomProvider
<input type="checkbox"/>	112233	Default Admin User 10	FCJCustomProvider
<input type="checkbox"/>	121212	Default Admin User 10	FCJCustomProvider
<input type="checkbox"/>	123456	SANKER GS	FCJCustomProvider
<input type="checkbox"/>	141414	Default Admin User 10	FCJCustomProvider
<input type="checkbox"/>	15259A03	Kumar	FCJCustomProvider
<input type="checkbox"/>	1M20862	BALA	FCJCustomProvider
<input type="checkbox"/>	20862A1	Bala	FCJCustomProvider

New Delete Showing 1 to 10 of 1000 Previous Next

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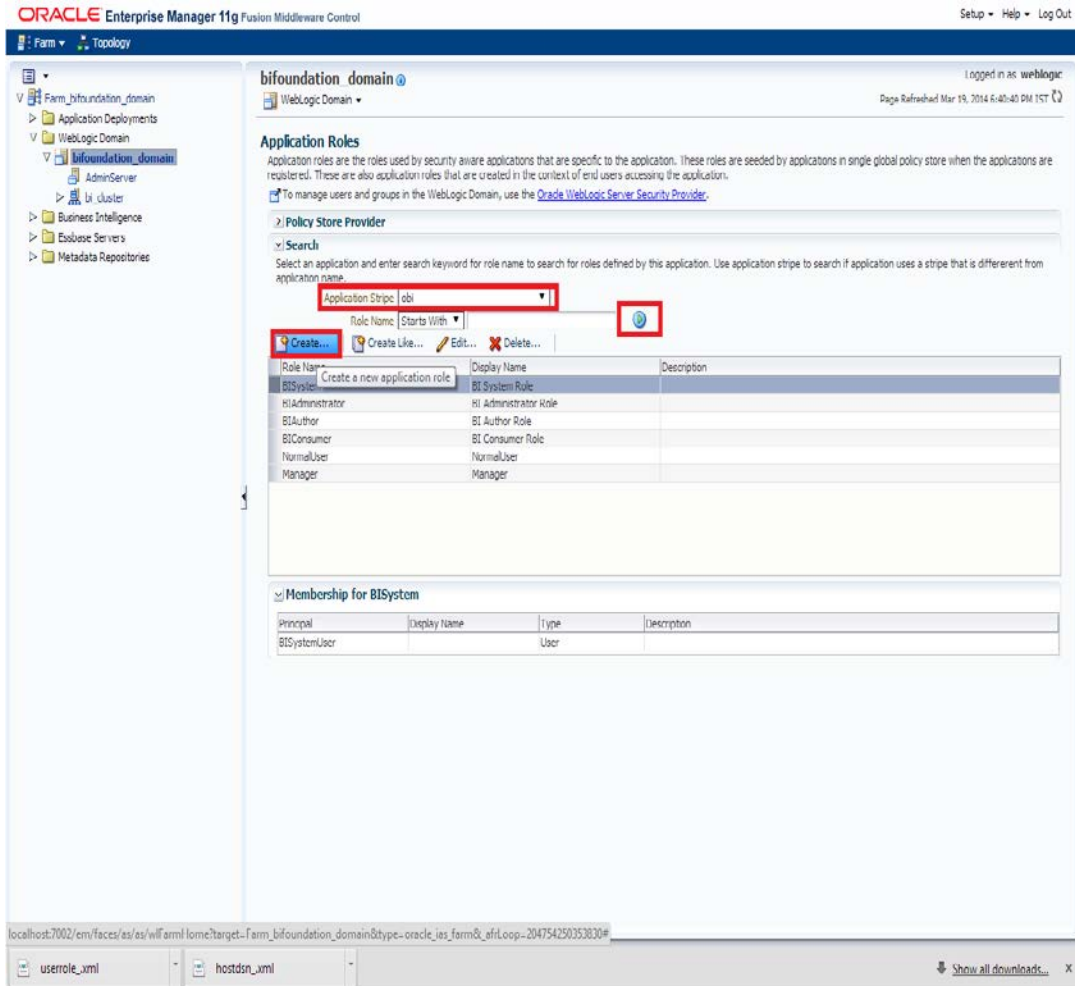
Login to the Enterprise Manager (em) <http://s:<hostname>:<port>/em>

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



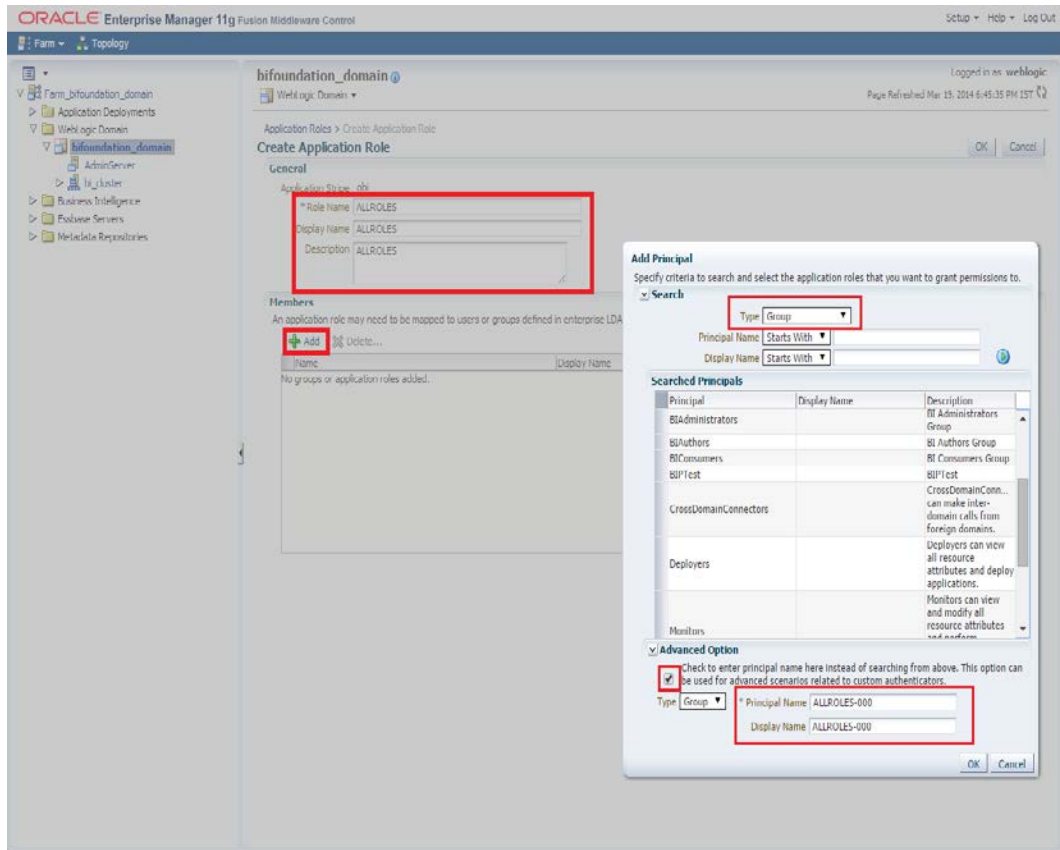
3) After navigating to next screen as in below screenshot,

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



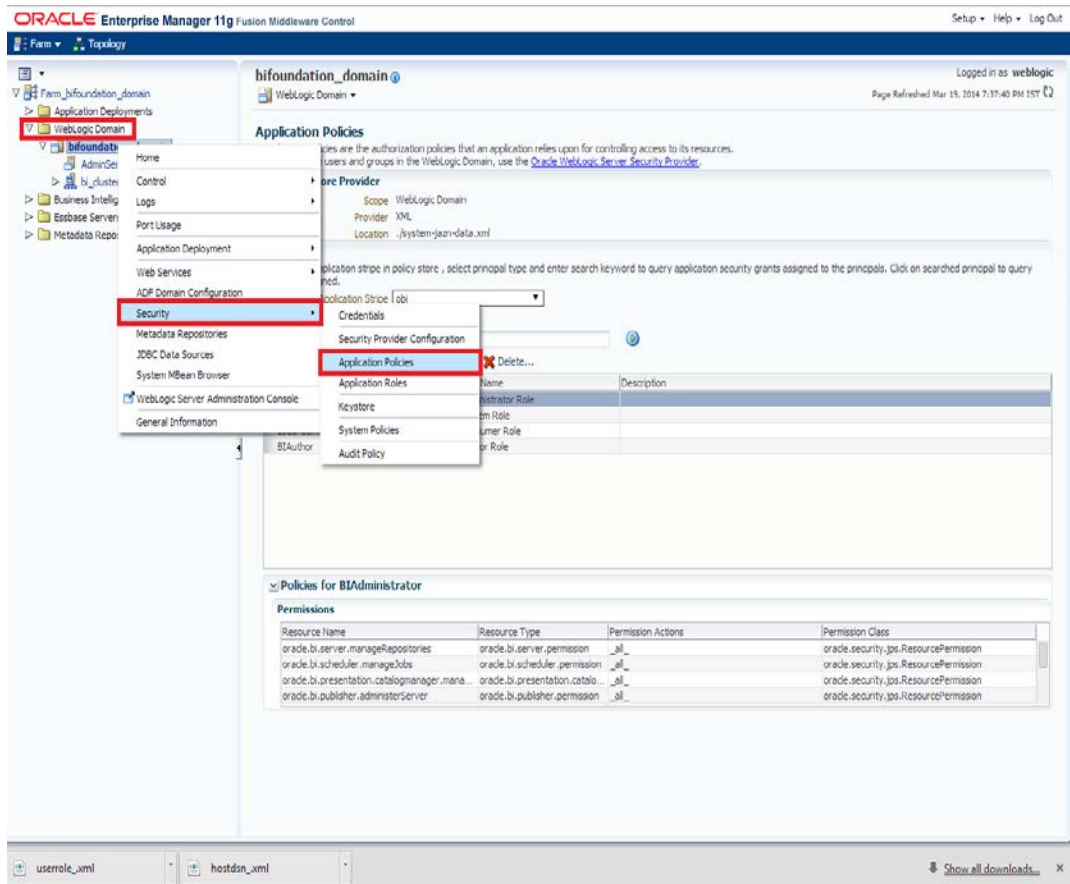
4) After navigating to next screen as in below screenshot,

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



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

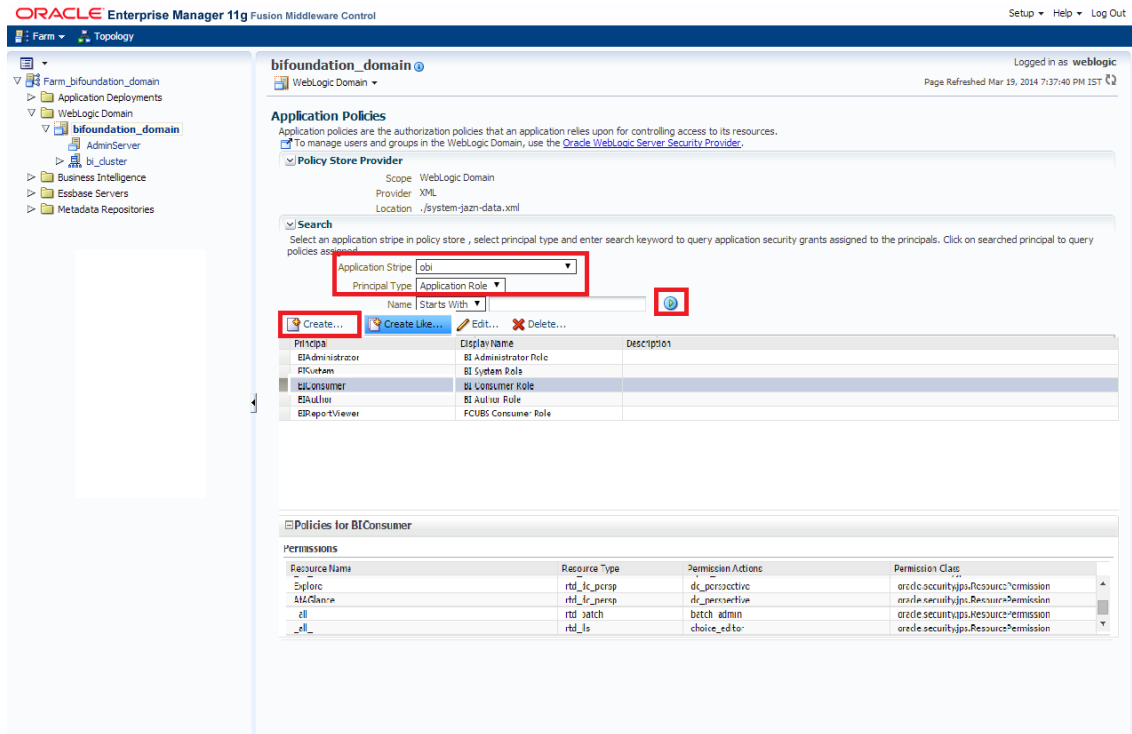
- Right click on the domain(in which BI suite is installed) under the weblogic domain
- Go to security and then navigate to application policies



6) After navigating to next screen as per screen shot,

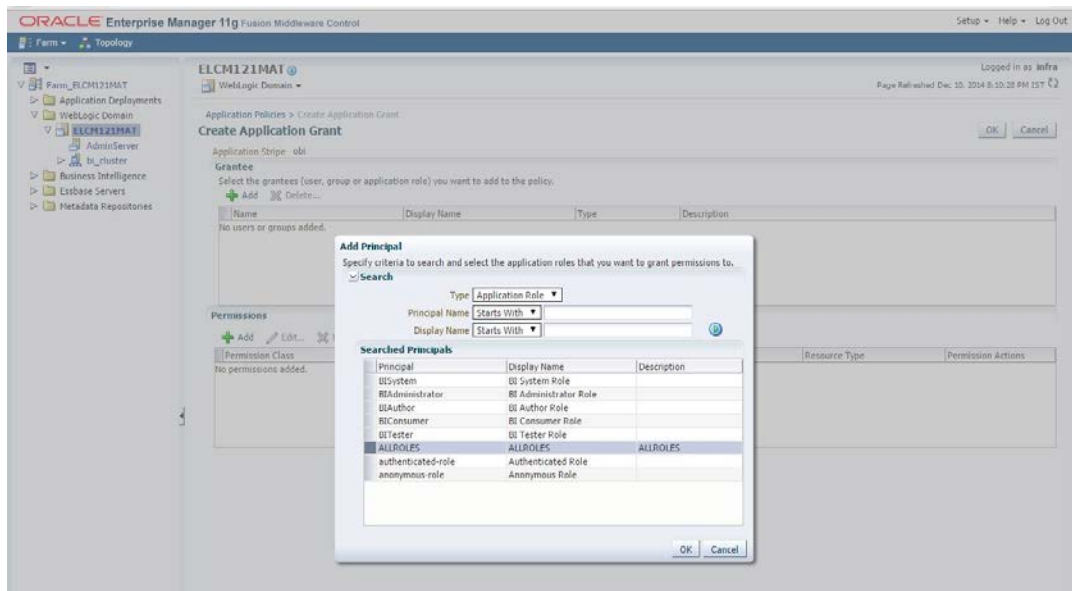
- Select the application stripe as obi, principal type as “Application Role”
- Click on the search button
- Select BIConsumer(it should be highlighted) from the list and click on the create like button.





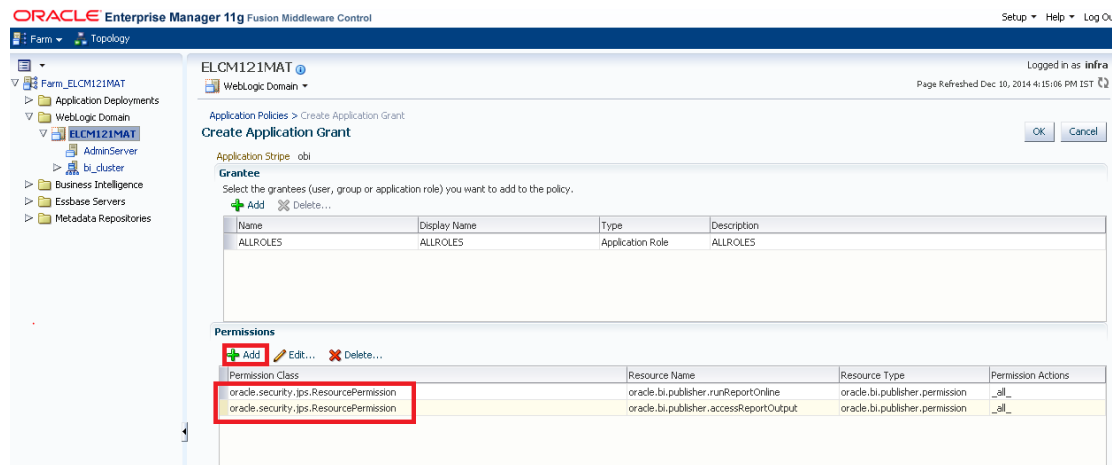
7) After navigating to next screen as per the screen shot,

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



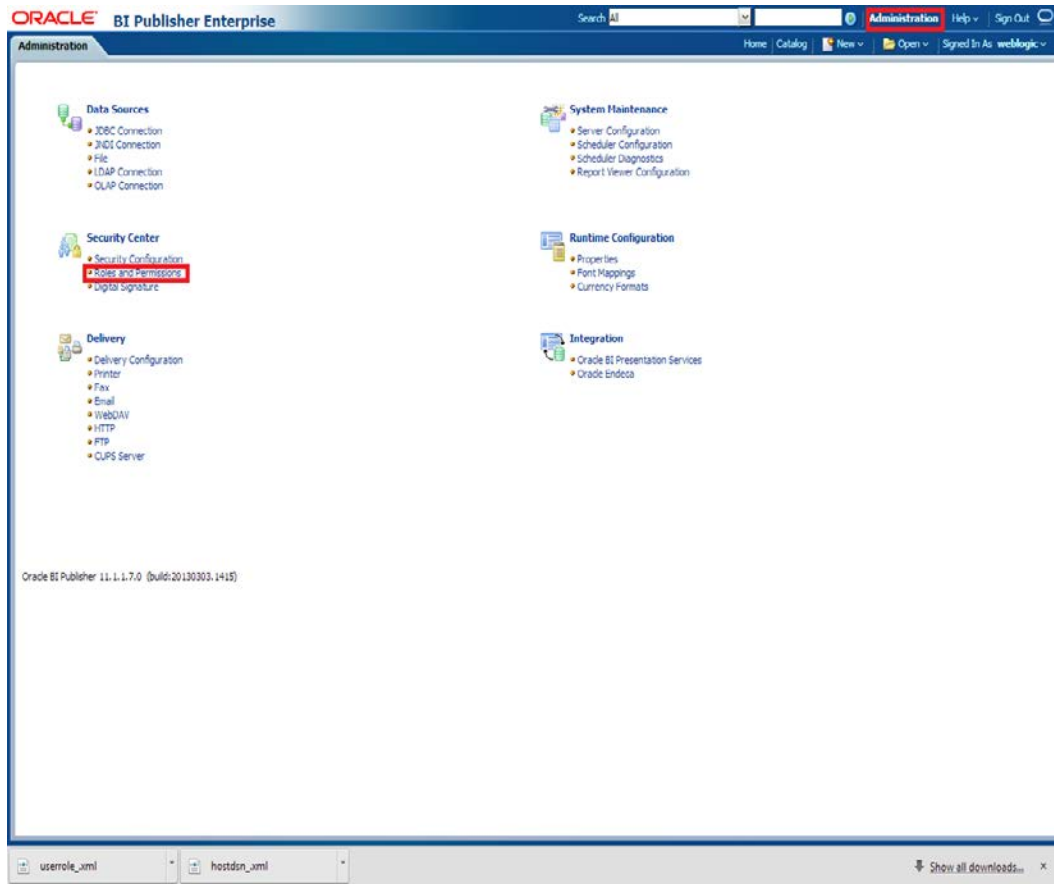
8) Click Add button under Permissions and add the two permissions one by one as mentioned below.

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

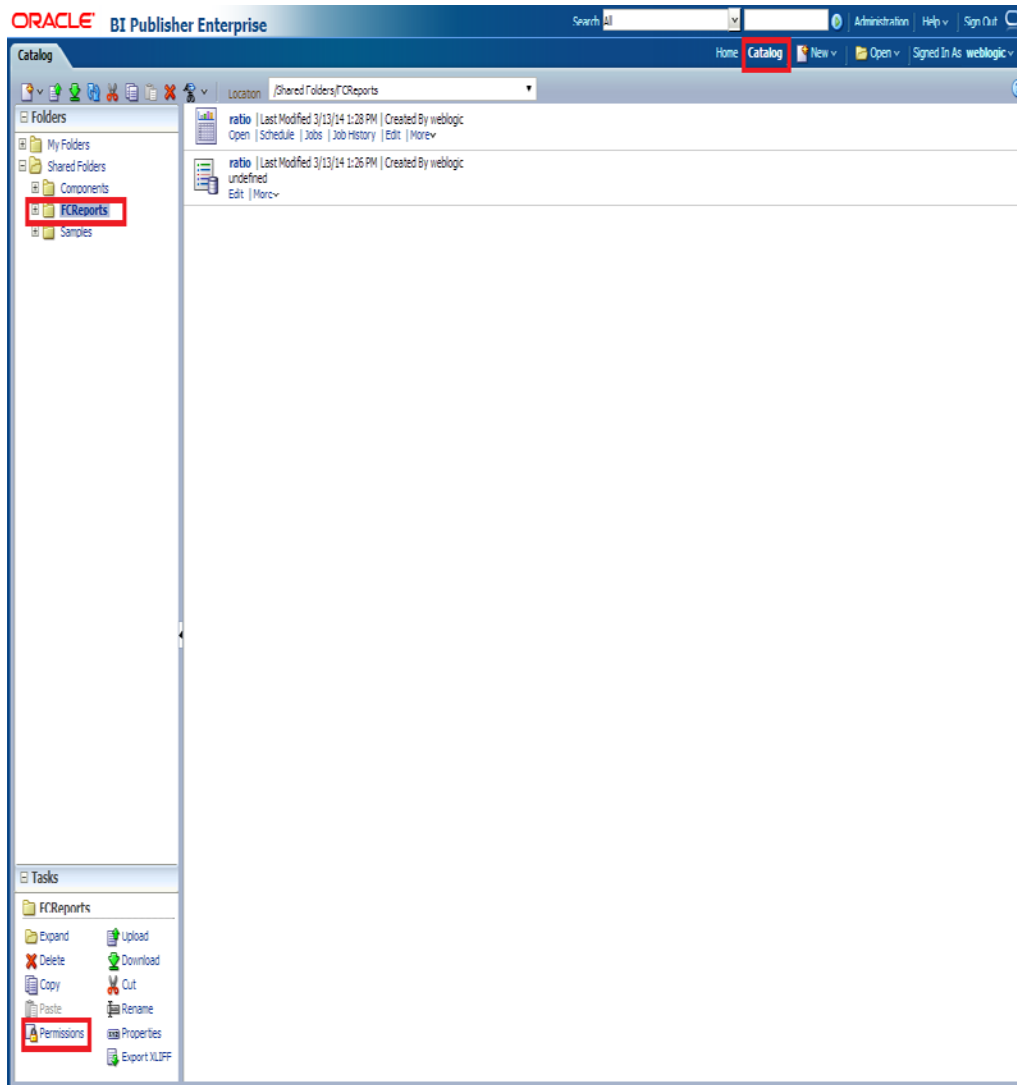


9) After getting information message like “A security added successfully”,

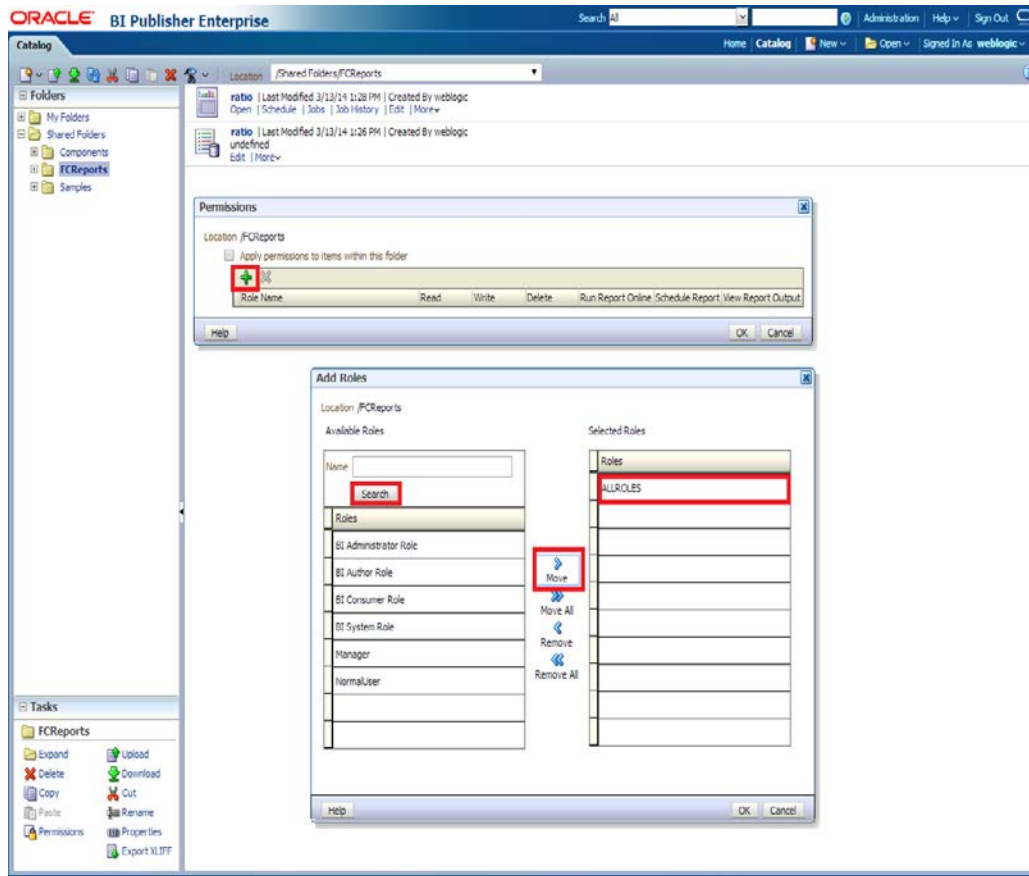
- Login into the BIPublisher , [http/s:<hostname>:<port>/xmlpserver](http://s:<hostname>:<port>/xmlpserver)
- Click on the Administration
- Click on the Roles and Permission under Security center and check if the added role(in em) is displayed, If not restart the servers.



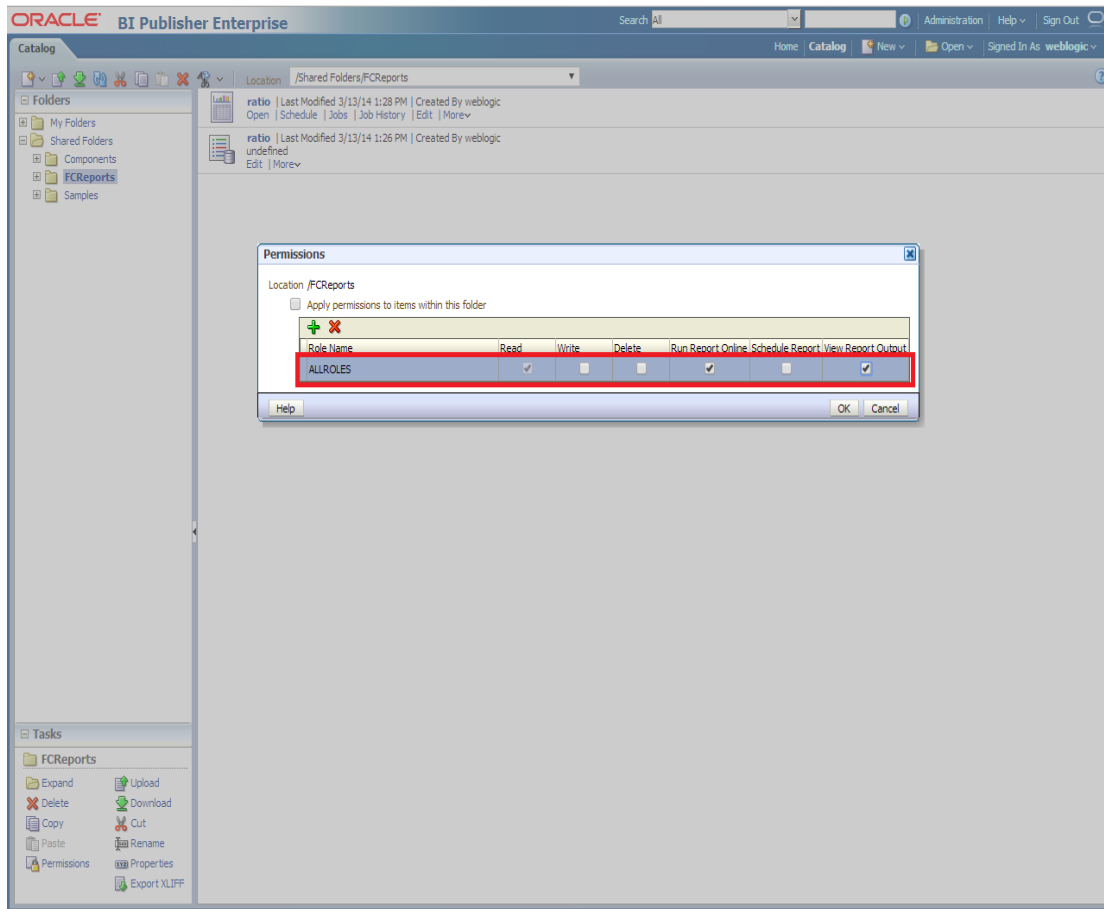
10) Then click on the Catalog , then on the folder that has been created , and then on permissions



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



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



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

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

### 1.2.7 **IPM configuration to edit the document**

- 1) Login to the console, <http://s:<hostname>:<port>/console> with admin user
  - Navigate to security realms → my realm → Providers and add the FCJCustomProvider. Follow the step 1.2.3 to add the “FCJCustomProvider”.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: dev117\_domain

Home > Summary of Security Realms > myrealm > Providers > Users and Groups > Providers

**Settings for myrealm**

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

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

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

[Customize this table](#)

**Authentication Providers**

New Delete Reorder Showing 1 to 3 of 3 Previous | Next

Name	Description	Version
FCJCustomProvider	Authentication provider for FLEXCUBE users	1.0
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

New Delete Reorder Showing 1 to 3 of 3 Previous | Next

**Change Center**

**View changes and restarts**

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

**Domain Structure**

dev117\_domain

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

**How do I...**

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

**System Status**

**Health of Running Servers**

Failed (0)

Critical (0)

Overloaded (0)

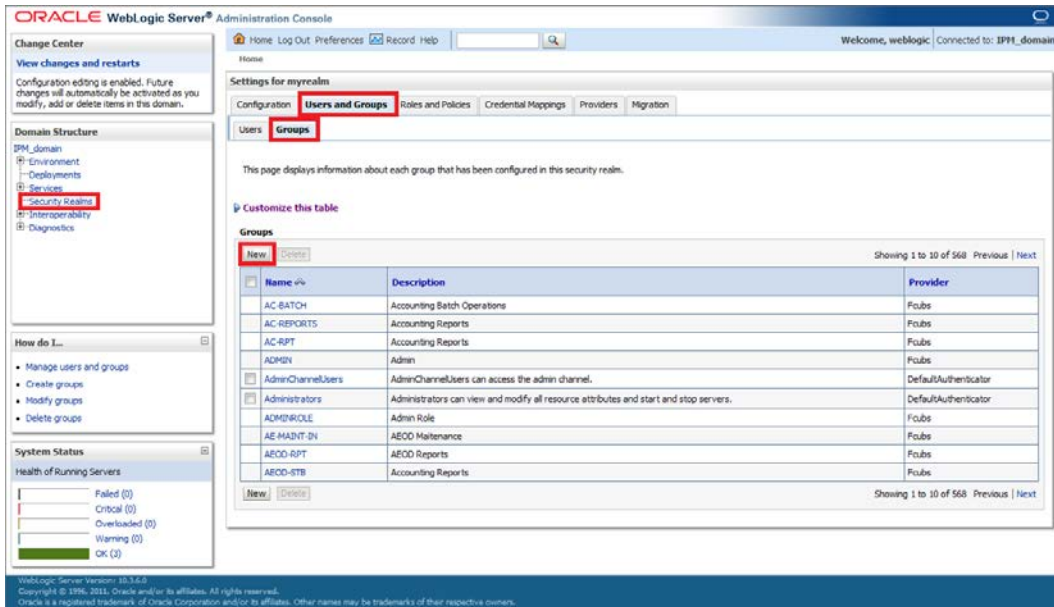
Warning (0)

OK (3)

WebLogic Server Version: 10.3.6.0  
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Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

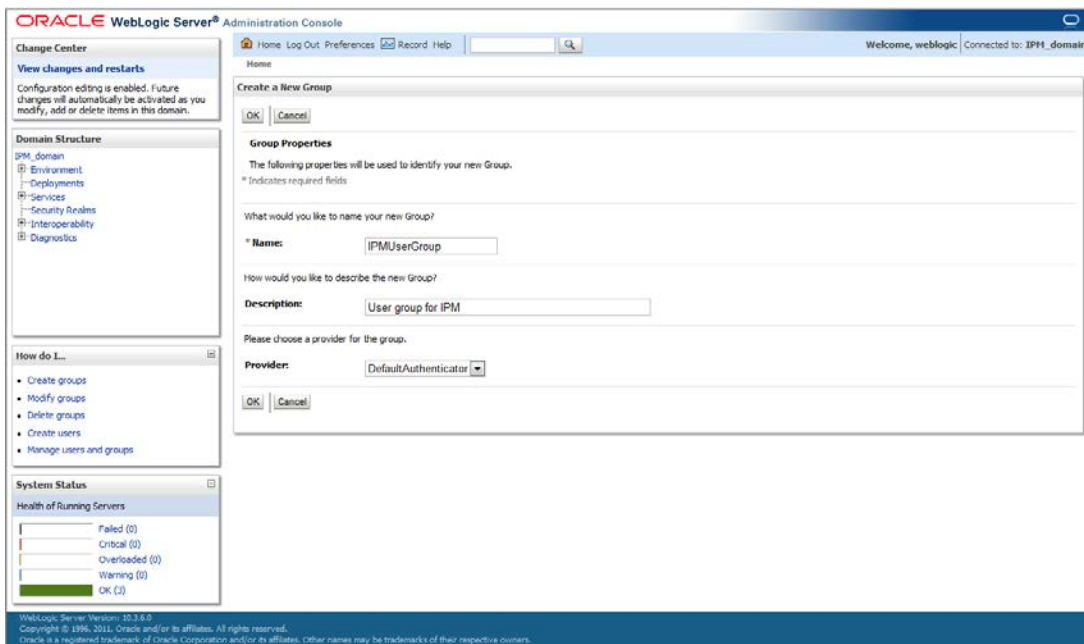
1.1) After adding the custom authenticator,

- Navigate to security realms → my realm → Users and Groups → Groups
- Click on the New button



1.2) After Clicking on the new button,

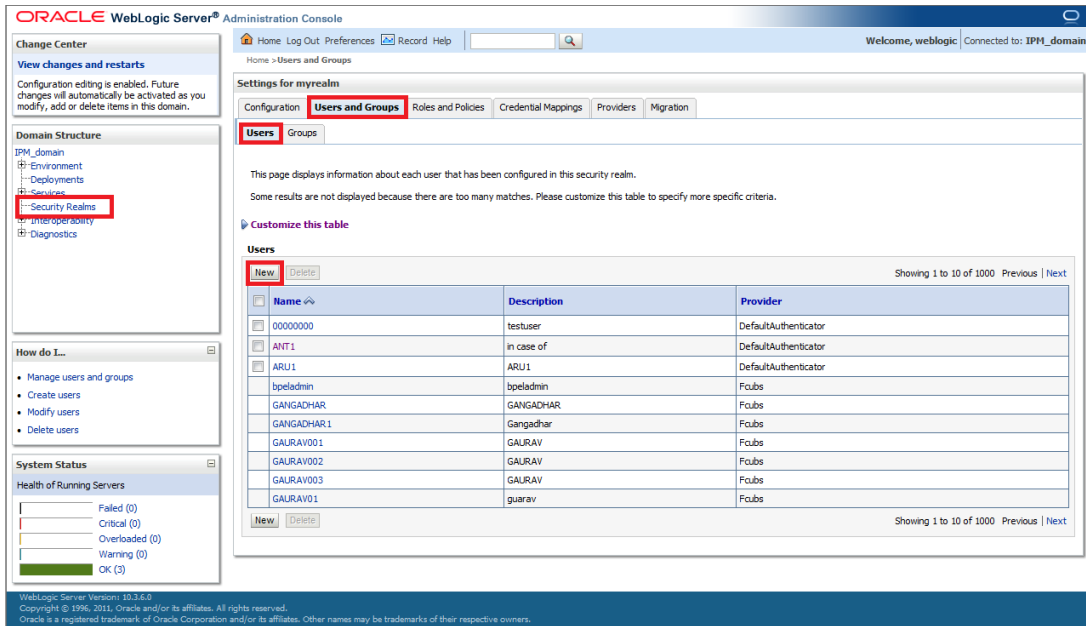
- Enter the name as “IPMUserGroup”
- Description for it (optional)
- And select the authenticator as “DefaultAuthenticator”
- And then click “OK”



1.3) After adding the Group,

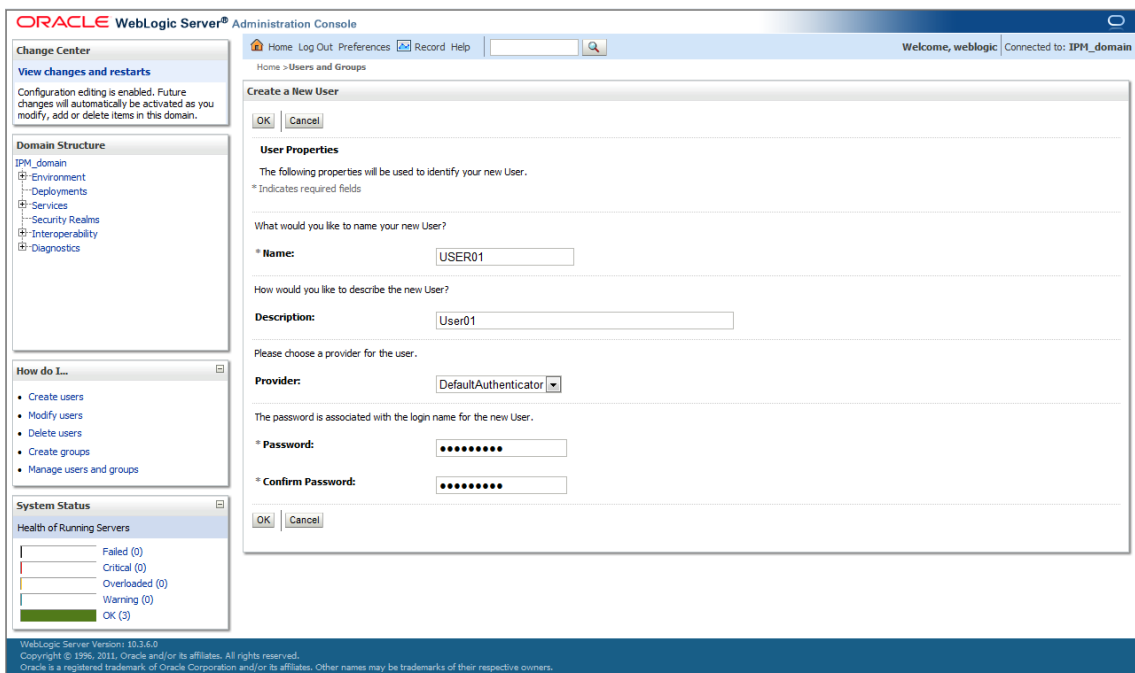
- Navigate to security realms → my realm → Users and Groups → Users
- Click on the New button





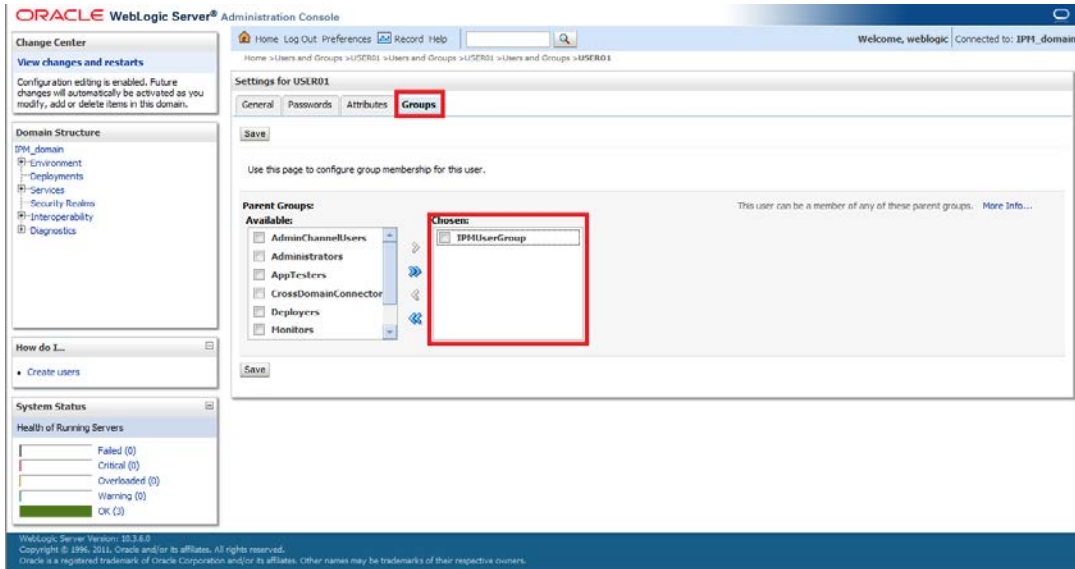
1.4) After Clicking on the new button,

- Enter the name that is present in the FCIS (FLEXCUBE user) as it is.
- Description for it (optional)
- And select the authenticator as “DefaultAuthenticator”
- Provide random password and confirm password
- And then click “OK”

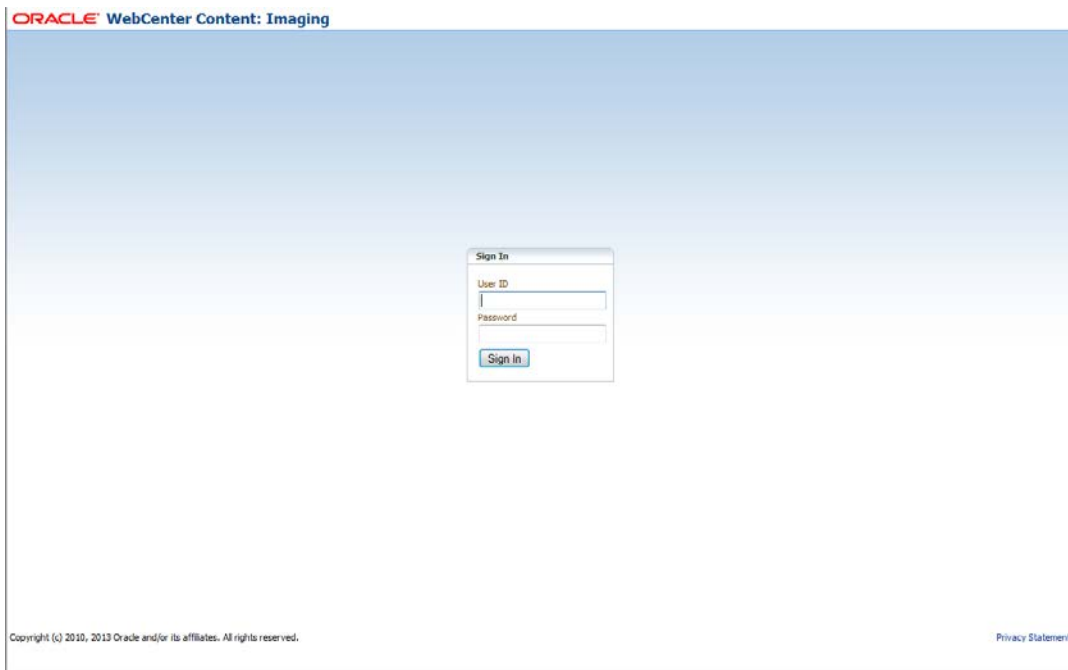


1.5) After Clicking on the ok button,

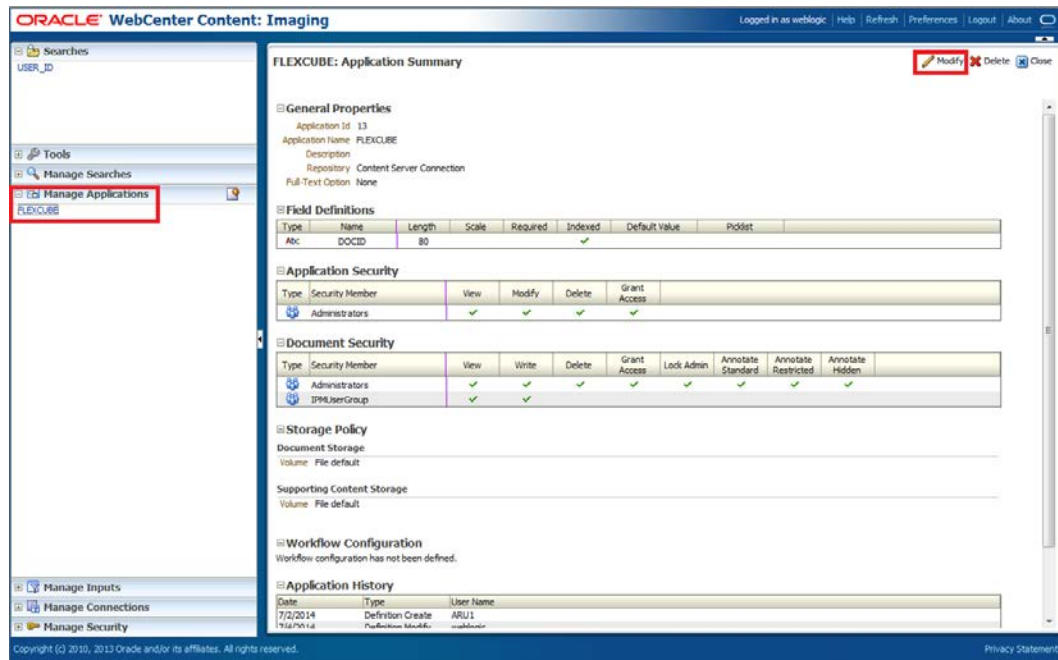
- Navigate to the created user in the users
- Click on the user
- Navigate to the Groups of the particular selected user
- Check the IPMUserGroup from the available and move it to Chosen
- Then finally click on save.



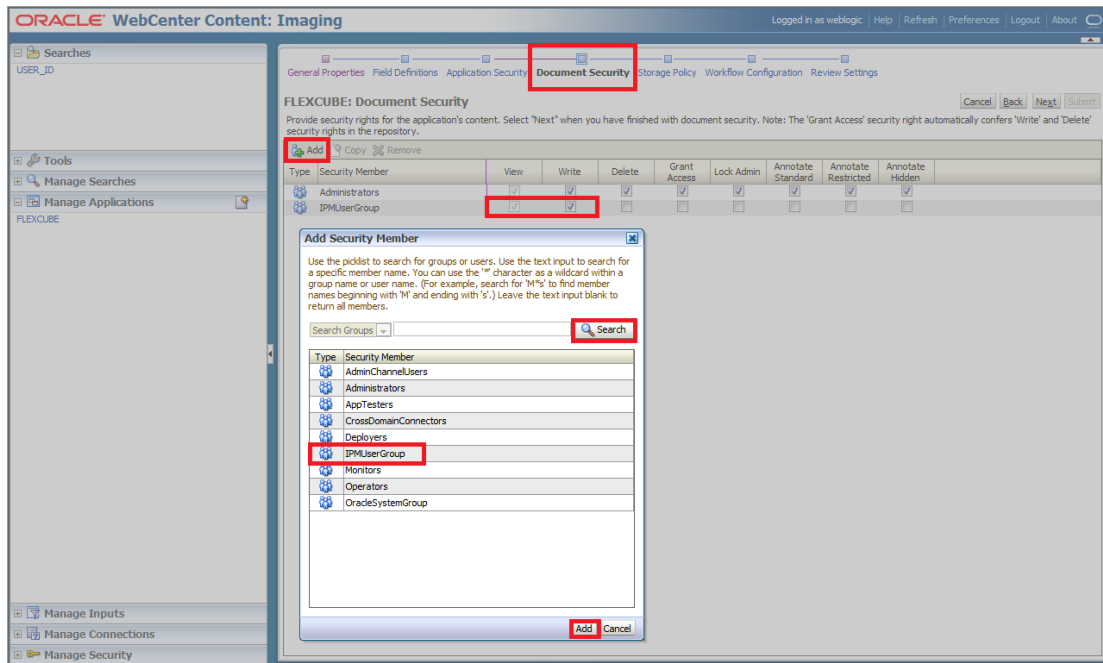
2) Login to the Imaging URL <http://s:<hostname>:<port>/imaging> with admin user



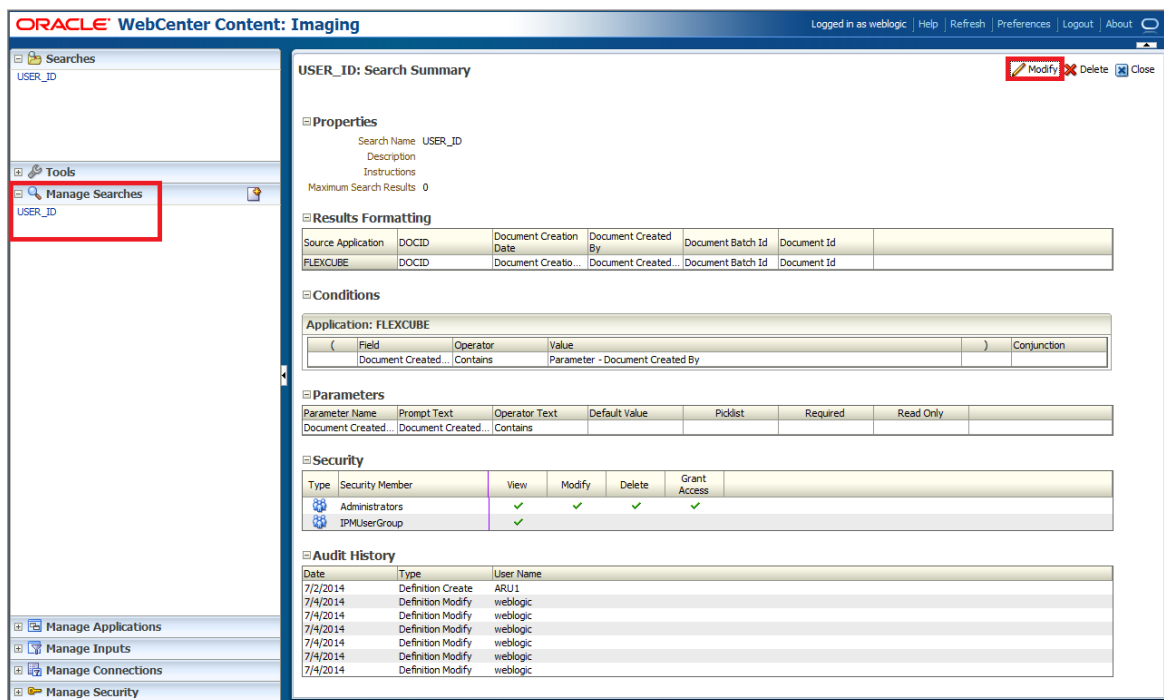
- a. Navigate to Manage Applications
- b. Click on the FLEXCUBE
- c. Then click on the modify on the right pane



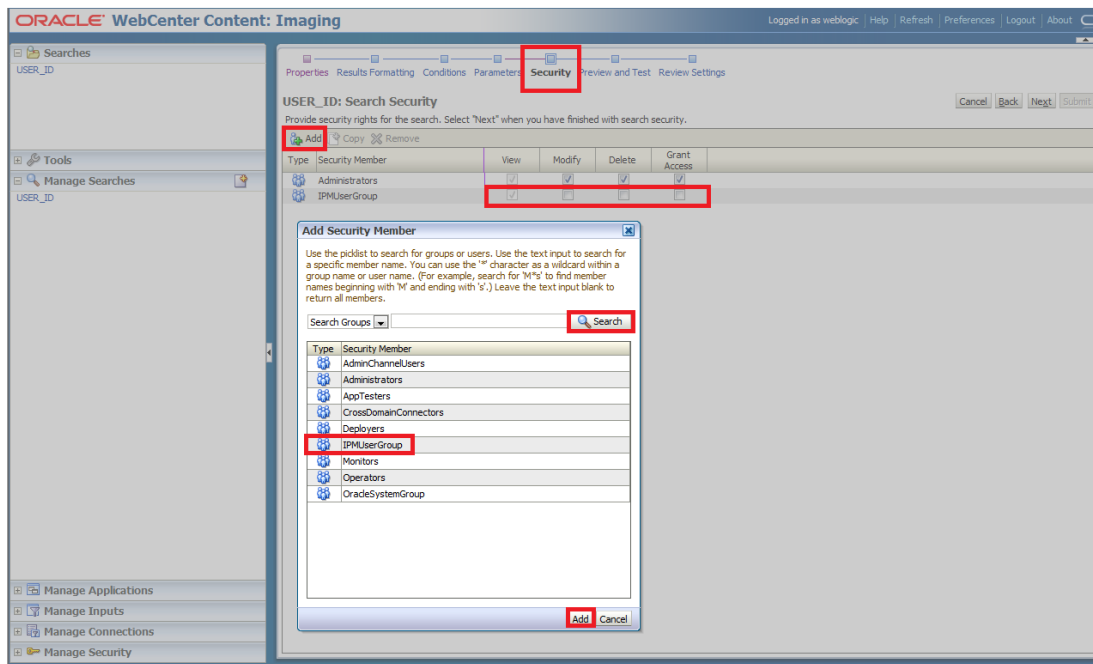
- 2.1) After clicking on the modify button,
  - d. Navigate to Document Security
  - e. Click on Add button
  - f. Click on Search button in the pop up window
  - g. Select the "IPMUserGroup"
  - h. Click on Add
  - i. IPMUserGroup will be listed in the panel, select view and write checkboxes.
  - j. Finally click on the submit button on the right corner



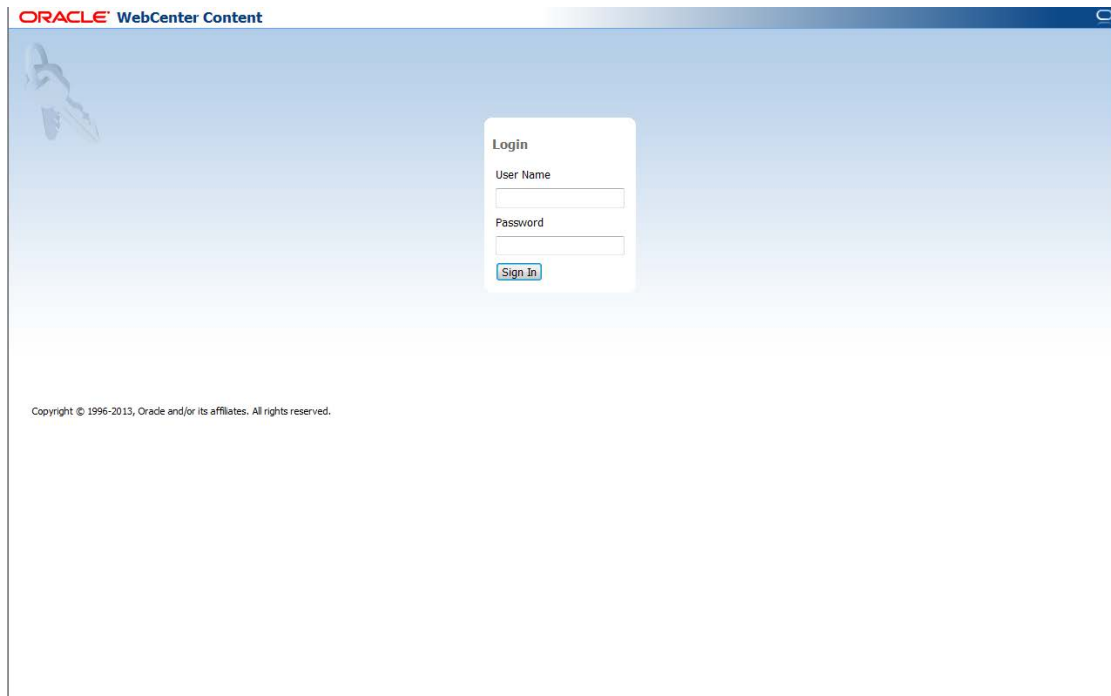
- 2.2) After clicking on the submit button,
  - k. Navigate to Manage Searches
  - l. Click on the available search (ex: USER\_ID in this doc)
  - m. Click on the modify



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

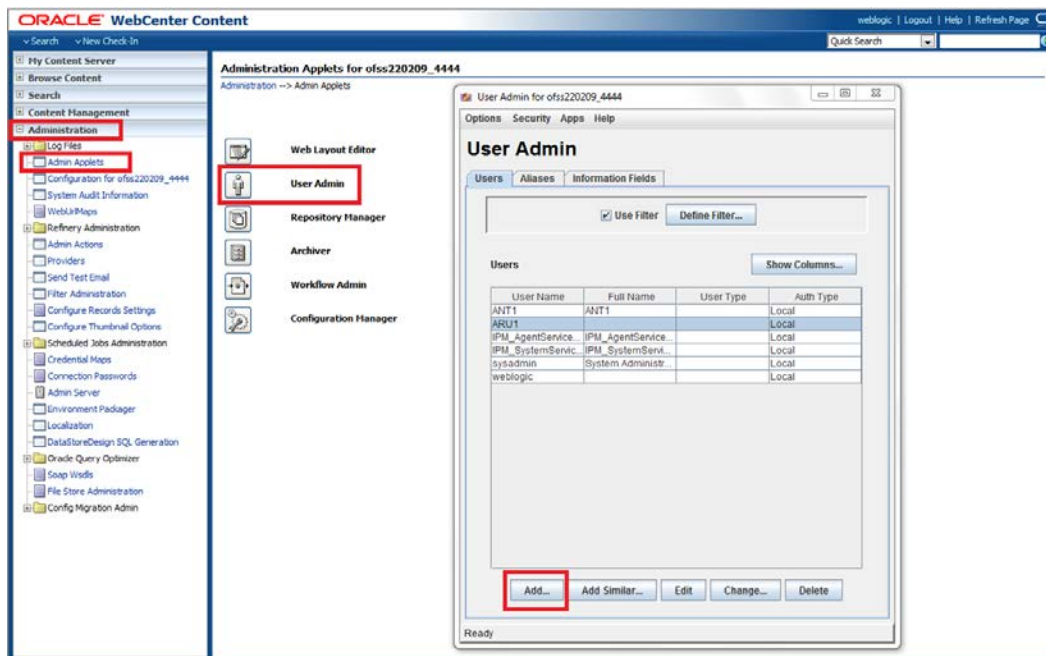


- 3) Login to the Content Server URL <http://s:<hostname>:<port>/cs/login> with admin user



3.1) After logging in to the content server,

- a. Navigate to Administrators
- b. Click on Admin Applets
- c. Select User Admin
- d. In the pop up window click on the add button



3.2) After clicking on the add button,

- e. Select the Authorization type as “Local”
- f. Click Ok
- g. Then provide the Details in the pop up window(note: The user name should be same as the FCIS user, i.e., FLEXCUBE user)

3.3) After entering the details navigate to Roles tab,

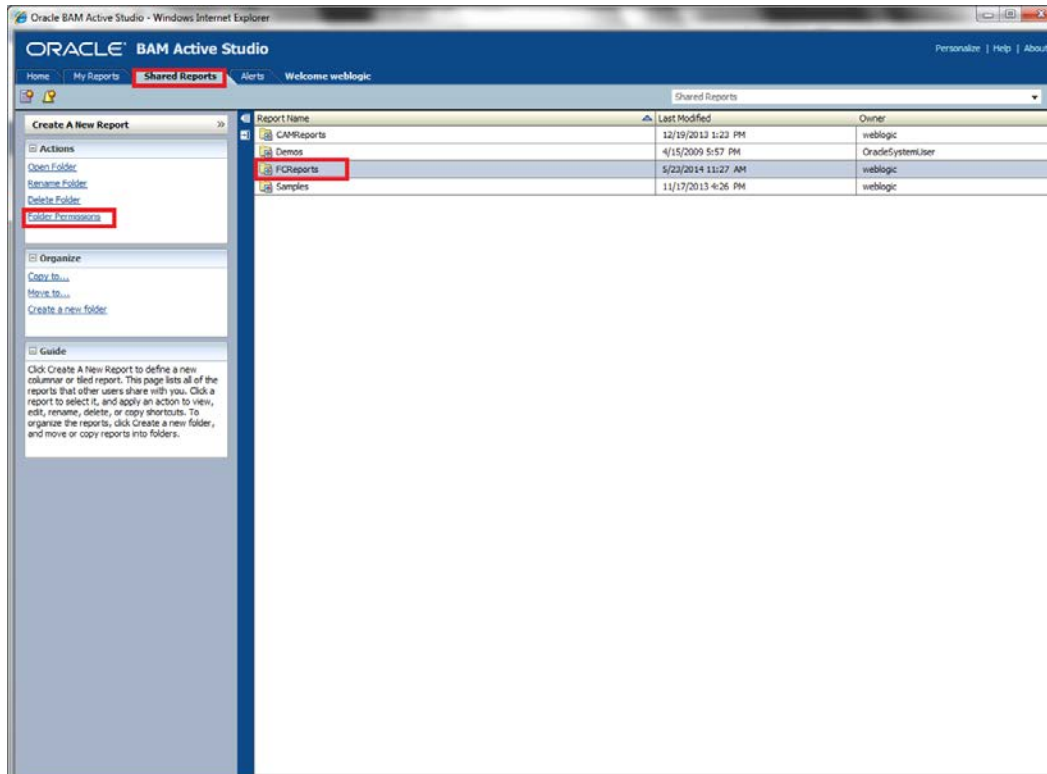
- h. Click on the add role button
- i. Select the “IPMUserGroup” from the pop up window and click ok.

NOTE: Repeat steps 1.3, 1.4, 1.5, 3.1, 3.2 and 3.3 for each user.

## 1.2.8 **BAM report configurations**

- 1) Login in to the BAM URL <http://s:<hostname>:<port>/OracleBAM> with admin user
  - After logging in, select the “Active Studio”

- In the BAM Active Studio window, navigate to the shared reports.
- Select the folder to which permissions has to be set
- Then in the left pane, click on the folder permissions



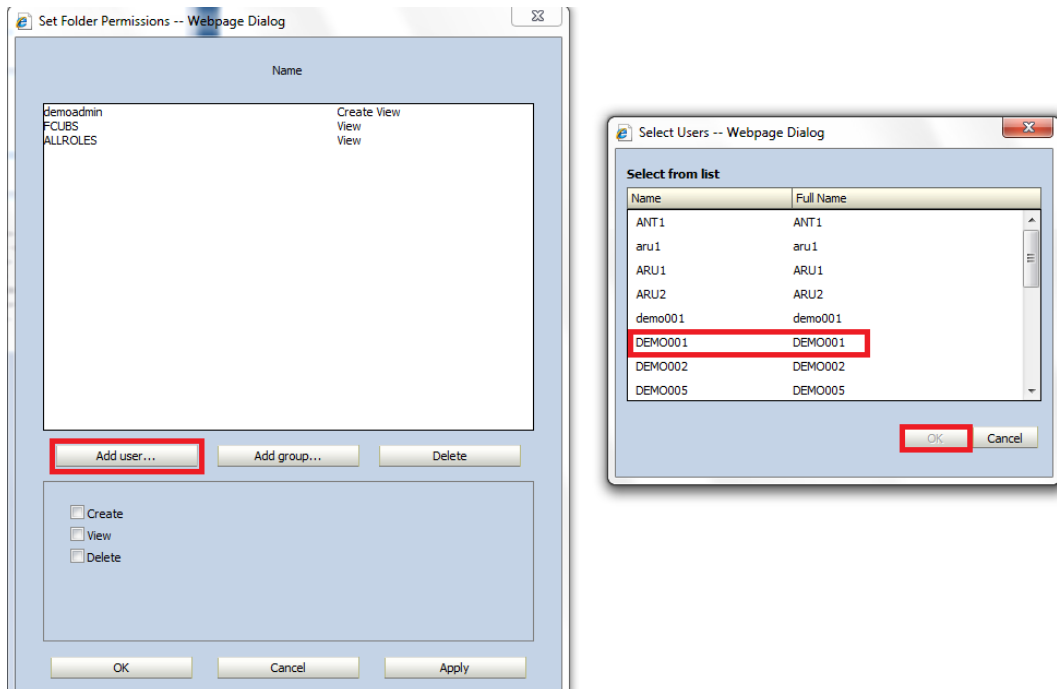
After clicking on the folder permissions,

- New window will be opened, you can either add user to the folder or group to the folder.

Adding user to the folder,

Click on the add user button, select single/multiple user from the list and click ok

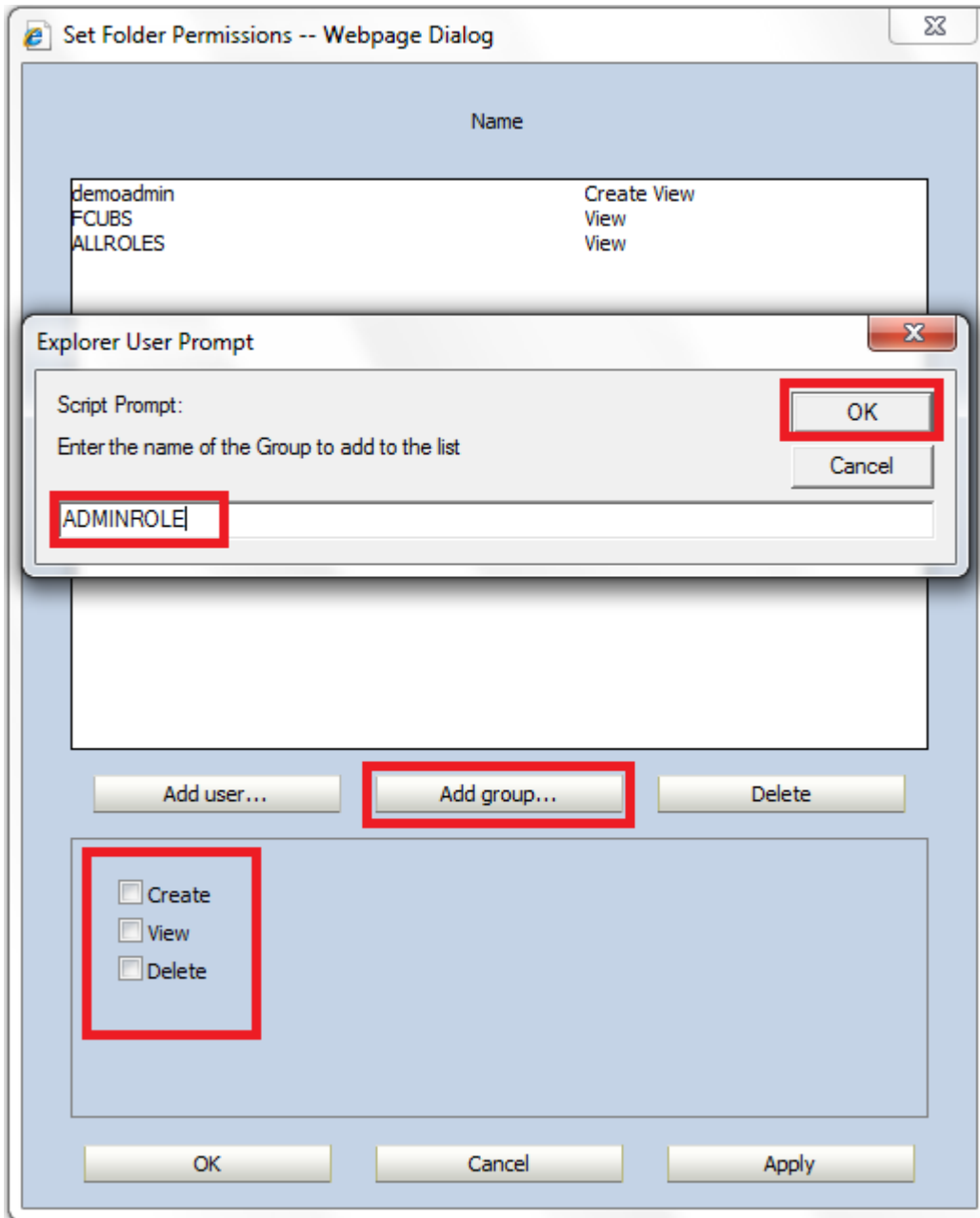




#### Adding group to the folder

Click on the add group button, type the Role name same as the role name in the FCIS schema.

The permissions like create, view and delete can be checked accordingly to the role and click on the apply button. This is applicable for the user too.



## 1.3 Integrating Oracle FLEXCUBE IS and Scheduler

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

### 1.3.1 Running Backend Scripts

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

Follow the steps given below:

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



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

## 1.4 **Integrating Oracle FLEXCUBE IS and BIP Reports**

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

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

#### **Deployment from Weblogic Administration Console**

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

## 1.5 **Integrating Oracle FLEXCUBE IS and MBean**

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

### 1.5.1 **Startup Script Modification**

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

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

1. Go to the Weblogic domain home folder.
2. Based on the operating system used, open 'startWeblogic.cmd' or 'startWeblogic.sh' from the folder 'bin'.
3. 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

)

```

4. Restart the Weblogic server.



Setting up Plug - Ins  
[October] [2015]  
Version 12.1.0.0.0

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