Application Installation Guide

Oracle Financial Services Lending and Leasing

Release 14.3.0.0.0

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ORACLE

Application Installation Guide
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1. Preface

This document contains notes and installation steps needed to install and setup Oracle Financial Services Lending and Leasing. Oracle Financial Services Lending and Leasing relies on several pieces of Oracle software in order to run and this document is in no way meant to replace Oracle documentation supplied with these Oracle products or available via Oracle technical support. The purpose of this document is only meant to supplement the Oracle documentation and to provide Oracle Financial Services Lending and Leasing specific installation instructions.

For recommendations on security configuration, refer Security Configuration Guide.

It is assumed that anyone installing Oracle Financial Services Lending and Leasing will have a thorough knowledge and understanding of Oracle Weblogic Server 12c, Oracle BI Publisher 12c.

Application installation is a nine step process.

1. Installing Software
2. Creating Domains, Repositories, Data Sources
3. Configuring Policies
4. Deploying Application
5. Enabling SSL
6. Launching Application
7. Mapping Enterprise Group with Application Role
8. Configuring Oracle BI Publisher for Application
9. Configuring JNDI name for HTTP Listener

1.1 Prerequisites

The following software are required to install Oracle Financial Services Lending and Leasing application and they are available from the following sources:

- Oracle Software Delivery Cloud (http://edelivery.oracle.com/)
- Oracle Technology Network (OTN)

1. Sun JDK Version 1.8.0_66 or above http://www.oracle.com/technetwork/java/javase/downloads/index.html
2. Oracle WebLogic Server 12c Version 12.2.1.0.0
   (http://www.oracle.com/technetwork/middleware/weblogic/downloads/index.html)
   Navigate to Fusion Middleware Infrastructure Installer.

JVM/JDK are to be downloaded and installed prior to installing the Weblogic Server.

Note

Please use all 64-bit software's for machine hosted with 64-bit O/S.

1.2 Audience

This document is intended for system administrators or application developers who are installing Oracle Financial Services Lending and Leasing Application.

1.3 Conventions Used

Term	Refers to
Application	Oracle Financial Services Lending and Leasing

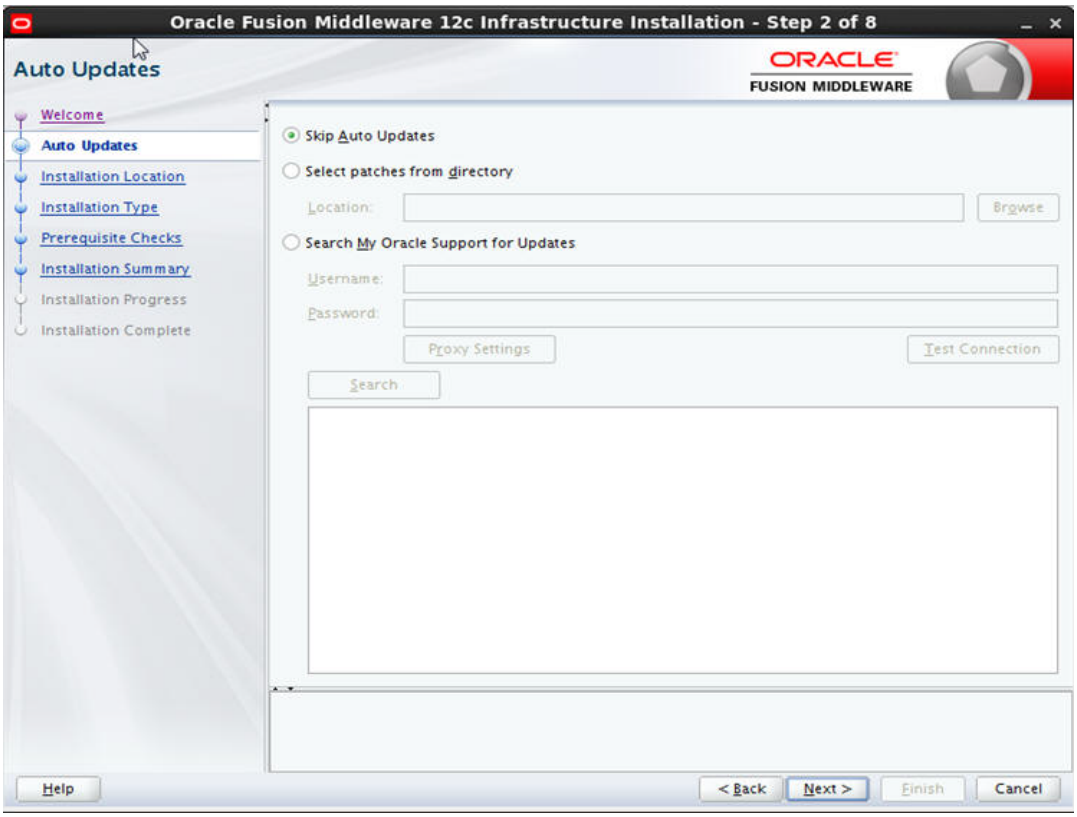
2. Installing Software

2.1 Installing Oracle WebLogic Server 12c

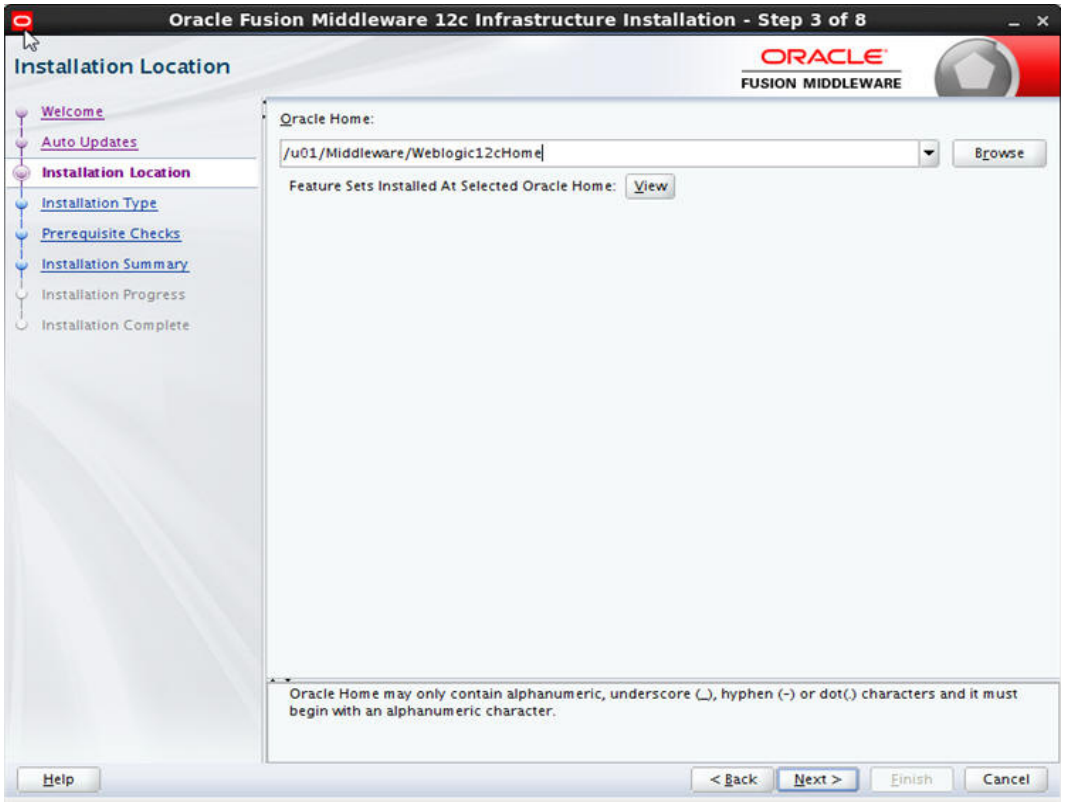
To install using generic Weblogic installer -

1. Run the command → java -jar fmw_12.2.1.0.0_infrastructure.jar
2. Welcome screen is displayed as shown below.

3. Click **Next** to continue.

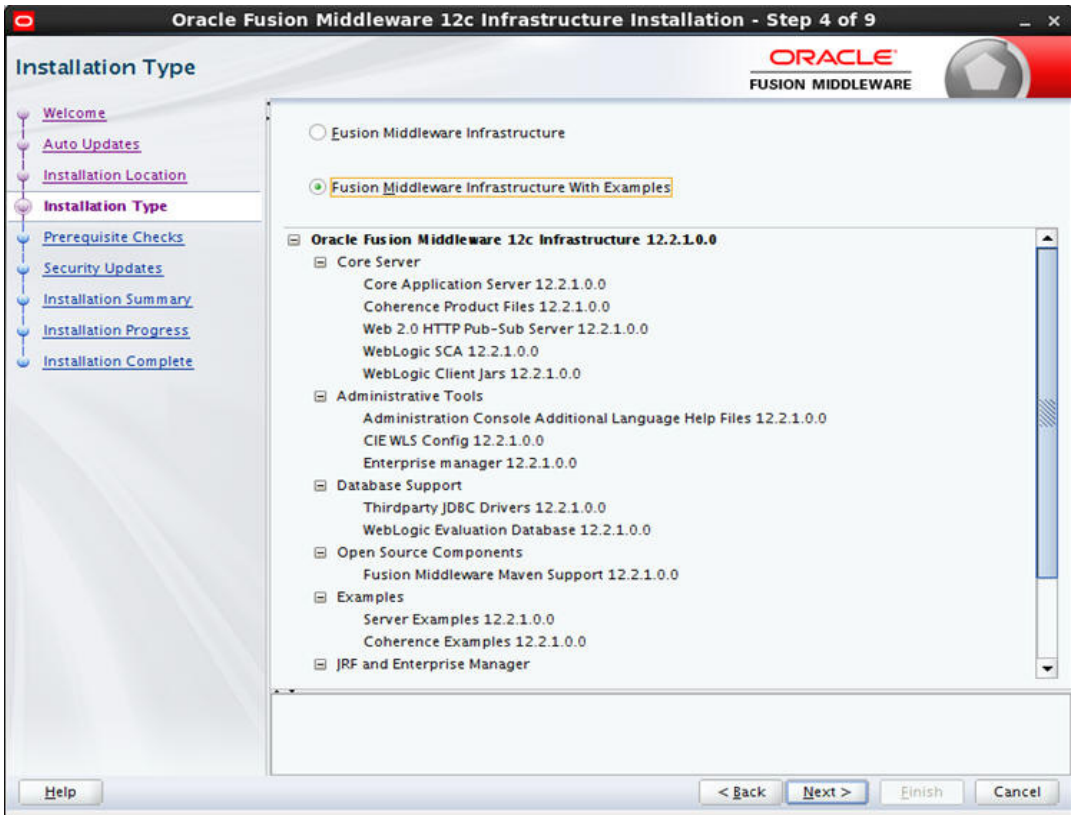


4. Select **Skip Auto Updates** and Click **Next.**

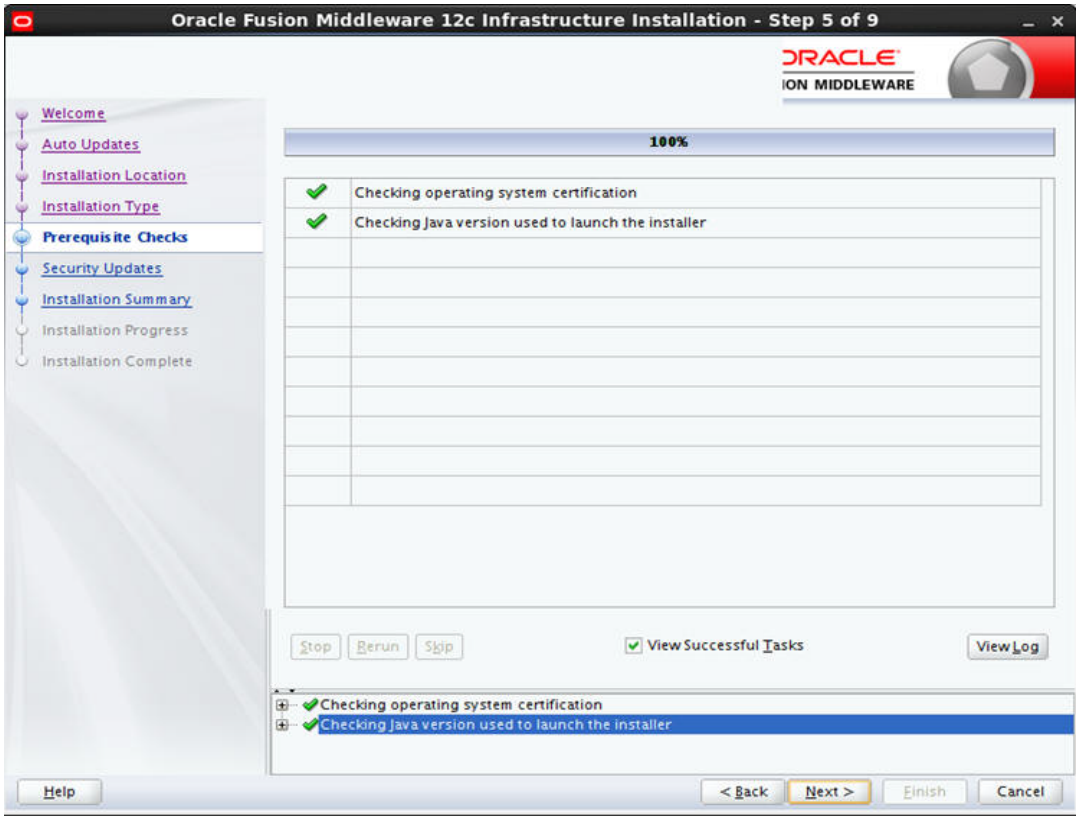


5. Specify the path for **Middleware Home Directory**, and then click **Next**.

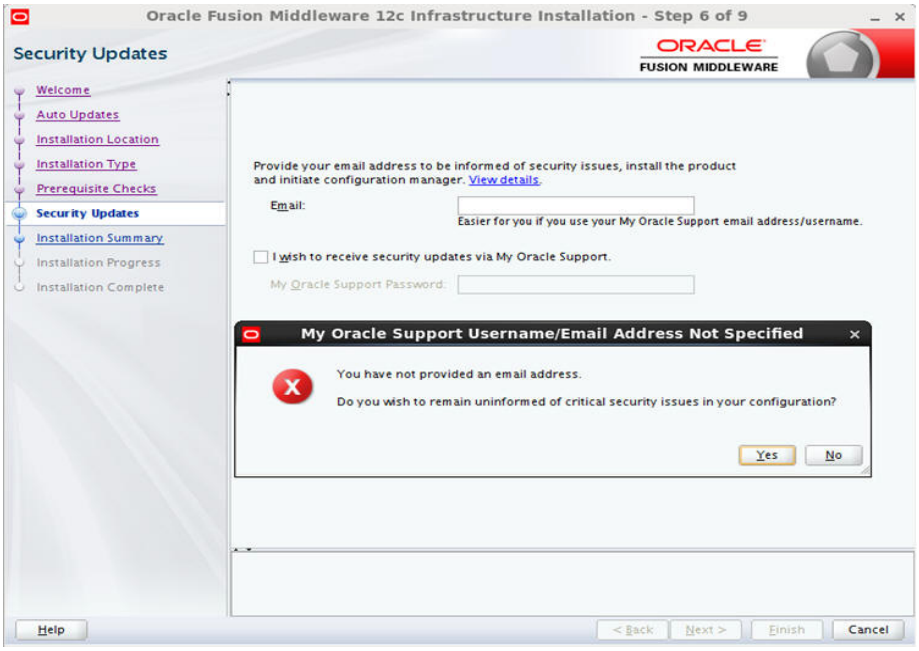
6. The following window is displayed..



7. Select Fusion Middleware Infrastructure with Examples.
8. Click **Next** to continue.

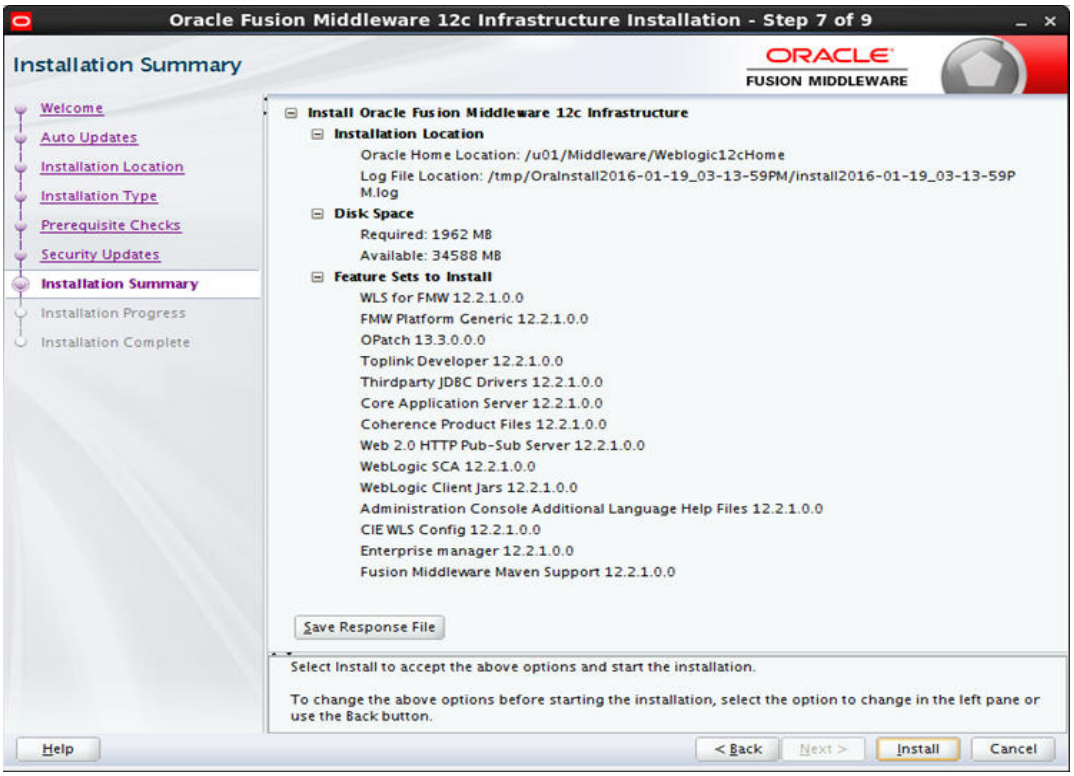


9. Click **Next** to continue..

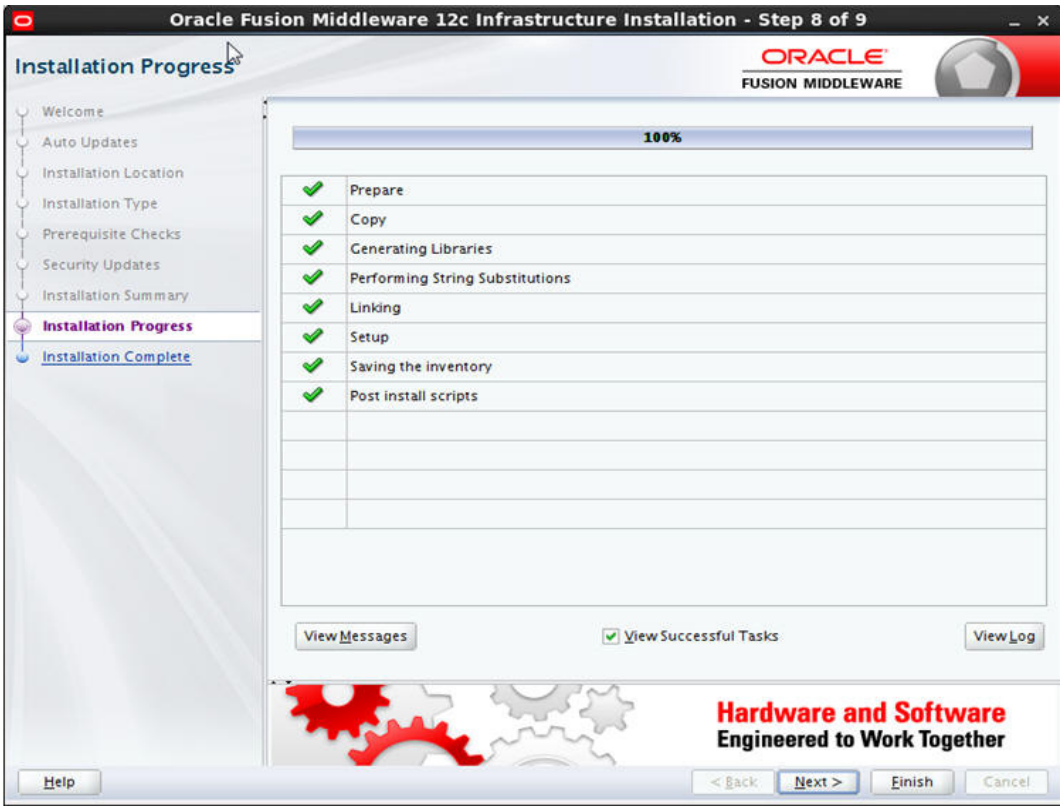


10. Uncheck the check box as in the above screen and click Next. Confirmation window is displayed. Click on Yes.

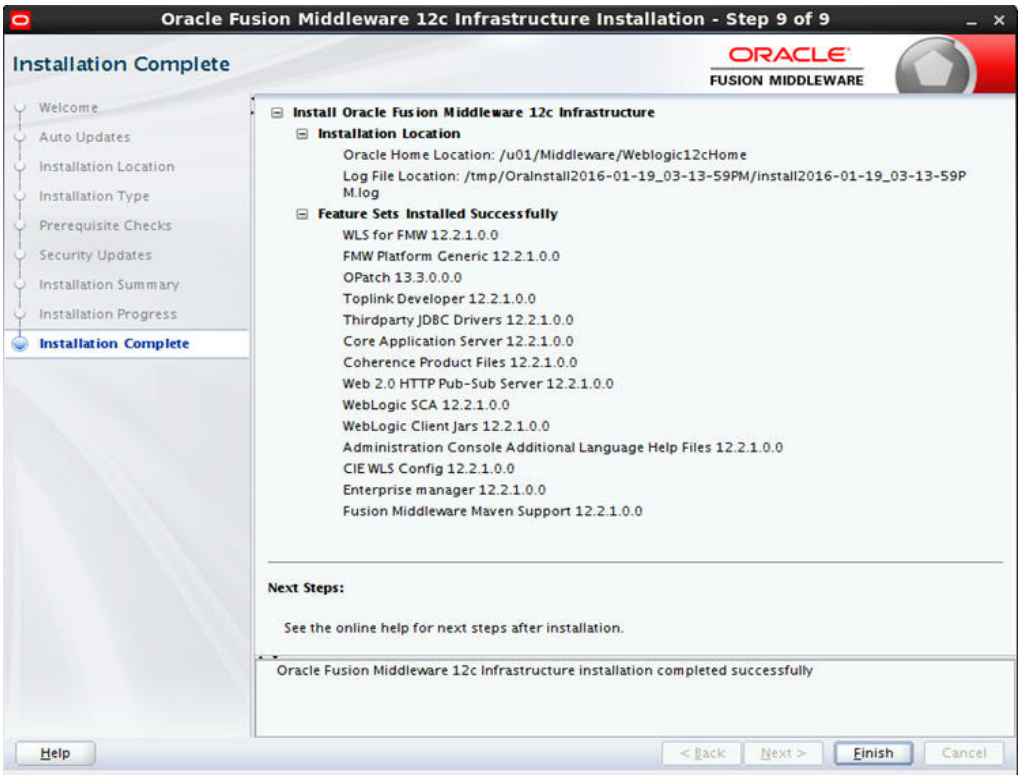
11. Click on Next. The following window is displayed.



12. Click on **Install**. The weblogic installation starts. After it is done the following window is displayed..



13. Click on **Next**...



14. Click **Finish** to close the window.

3. Creating Domains, Repositories, Data Sources

3.1 Creating Domain and Servers

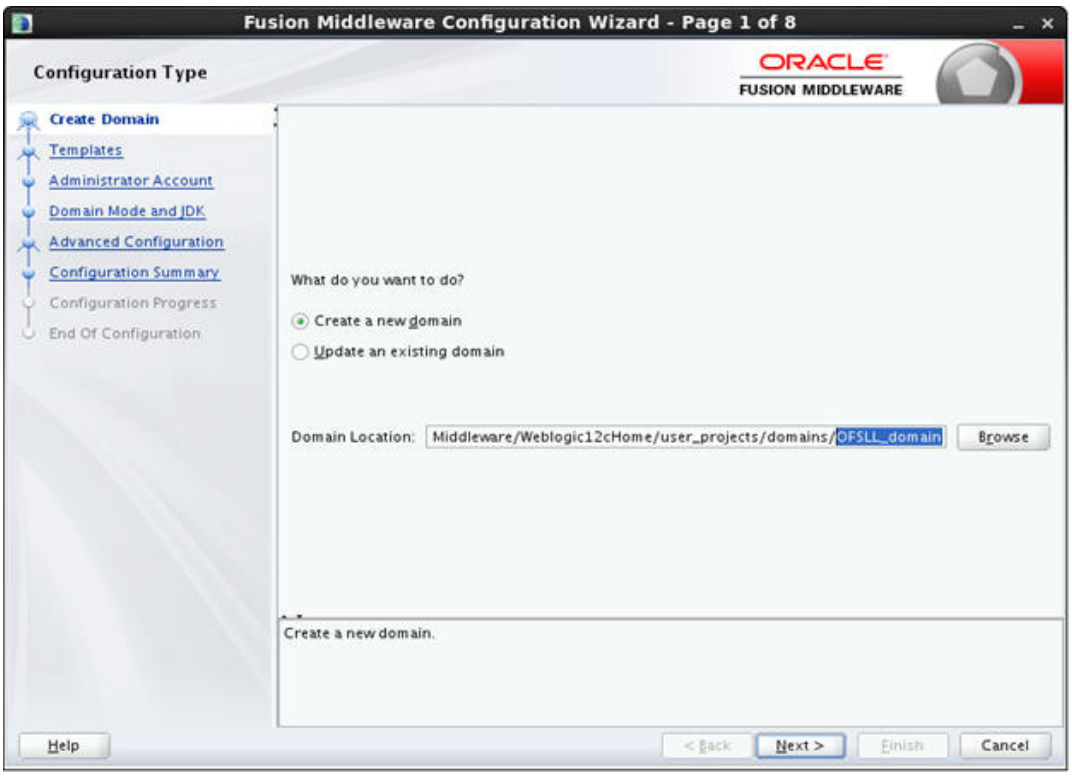
1. In Unix/Linux machine, once the Oracle WebLogic Server is installed, navigate to the following path.

<WL_HOME>/wlserver/common/bin

> **Note**
>
> Use XManager for remote UNIX/LINUX machine. Refer XManager Usage.

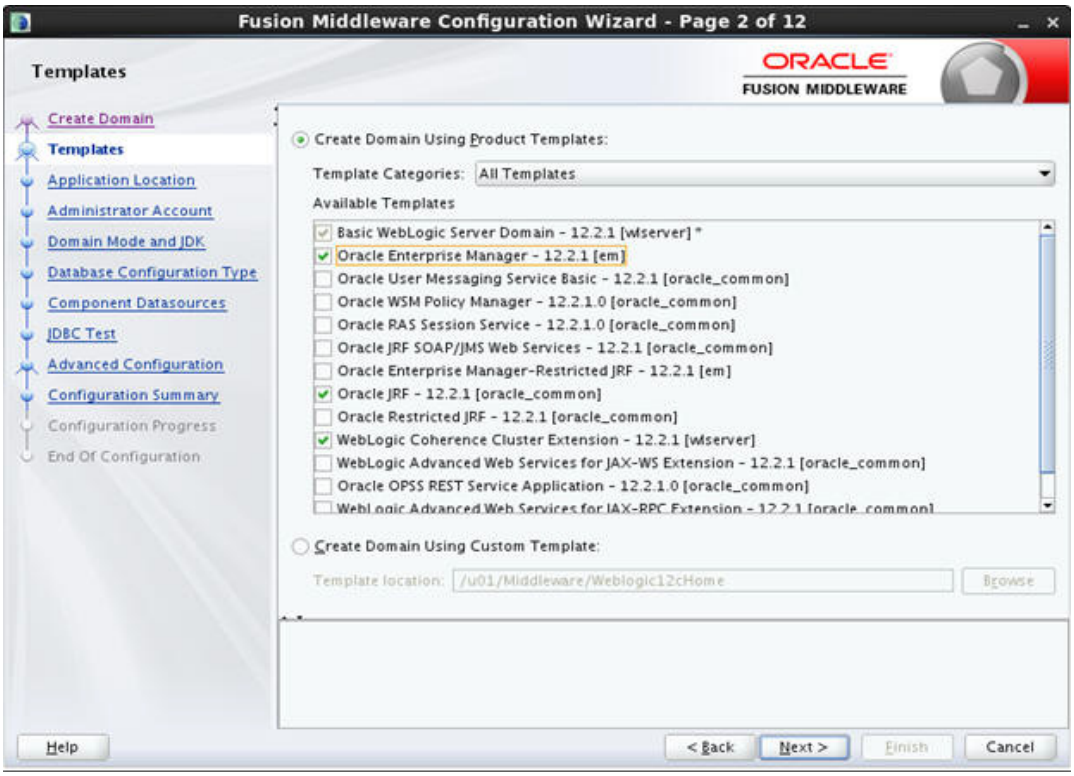
Here, WL_HOME is **/home/Oracle/Middleware**.

2. In Unix run **config.sh.**,
3. Click Configuration Wizard icon.

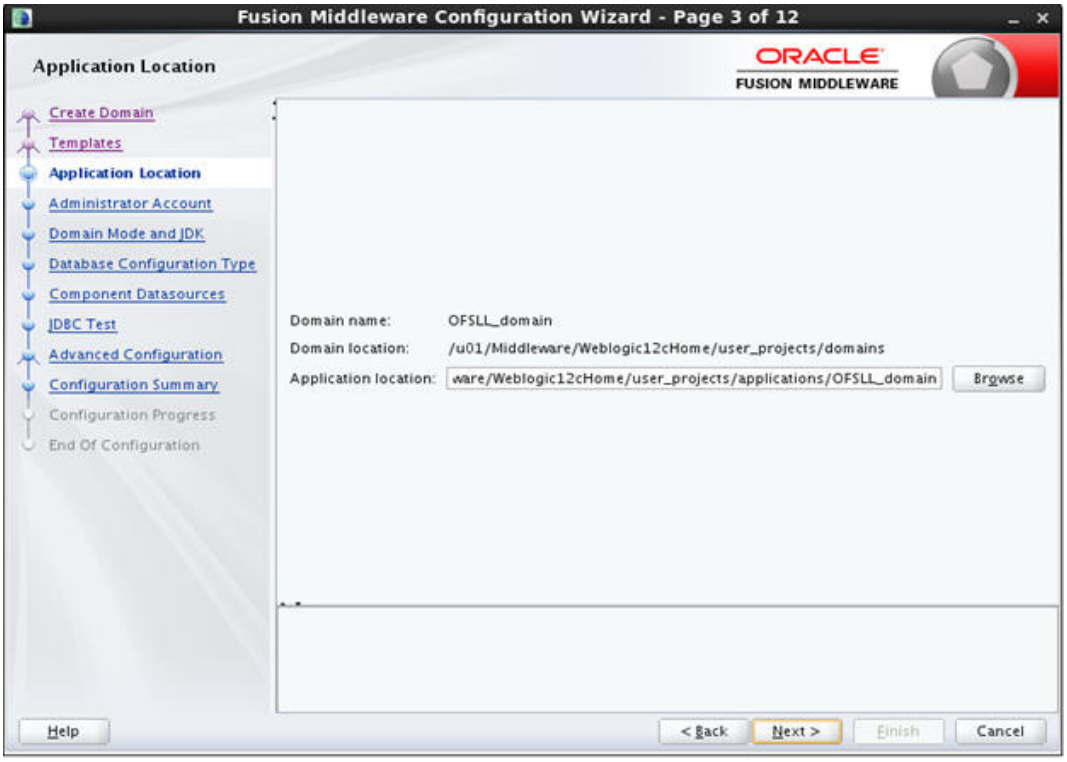


4. Select **Create a new domain** and give the Domain Location.

5. Click **Next** to continue. The following window is displayed.

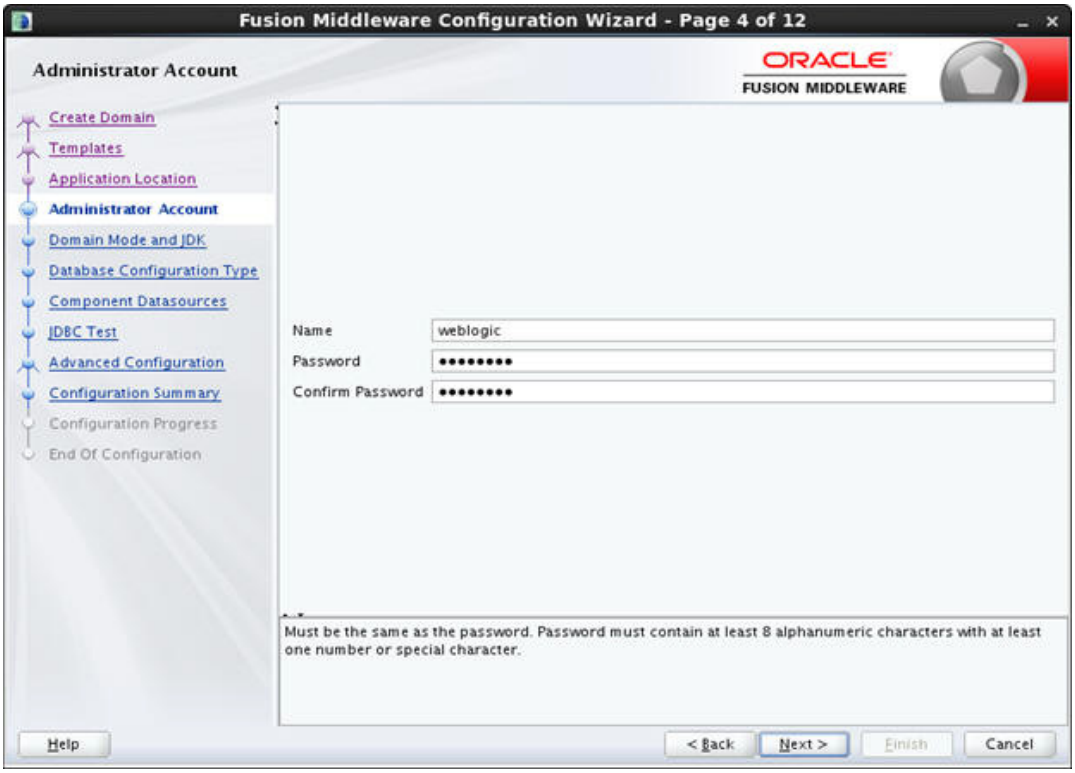


6. Select **Create Domain Using Product Templates** option.
7. Select **Oracle Enterprise Manager - 12.2.1 [em]** check box.
8. Select **Oracle JRF - 12.2.1 [oracle_common]** check box.
9. Click **Next.** The following window is displayed.



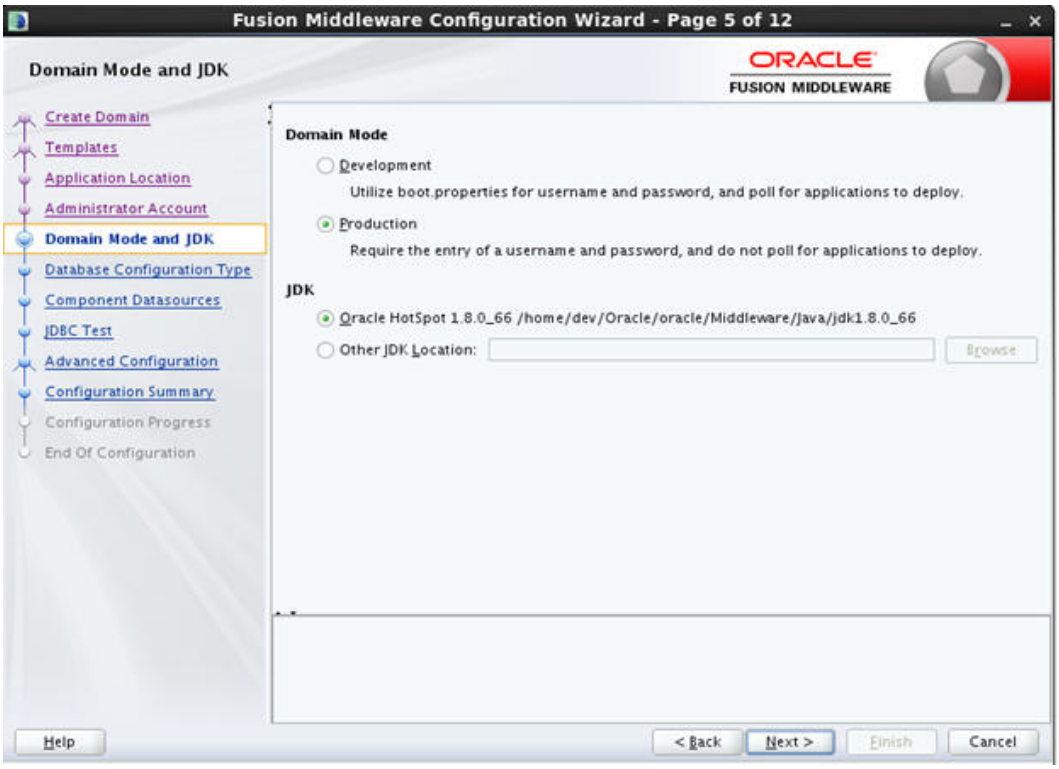
10. Enter **Domain** Name and click **Next**. The following window is displayed.

11. Edit Domain Location, if needed.



12. Enter credentials for the following:
    - Name
    - User password
    - Confirm user password
    - Description

13. Click **Next**. The following window is displayed.

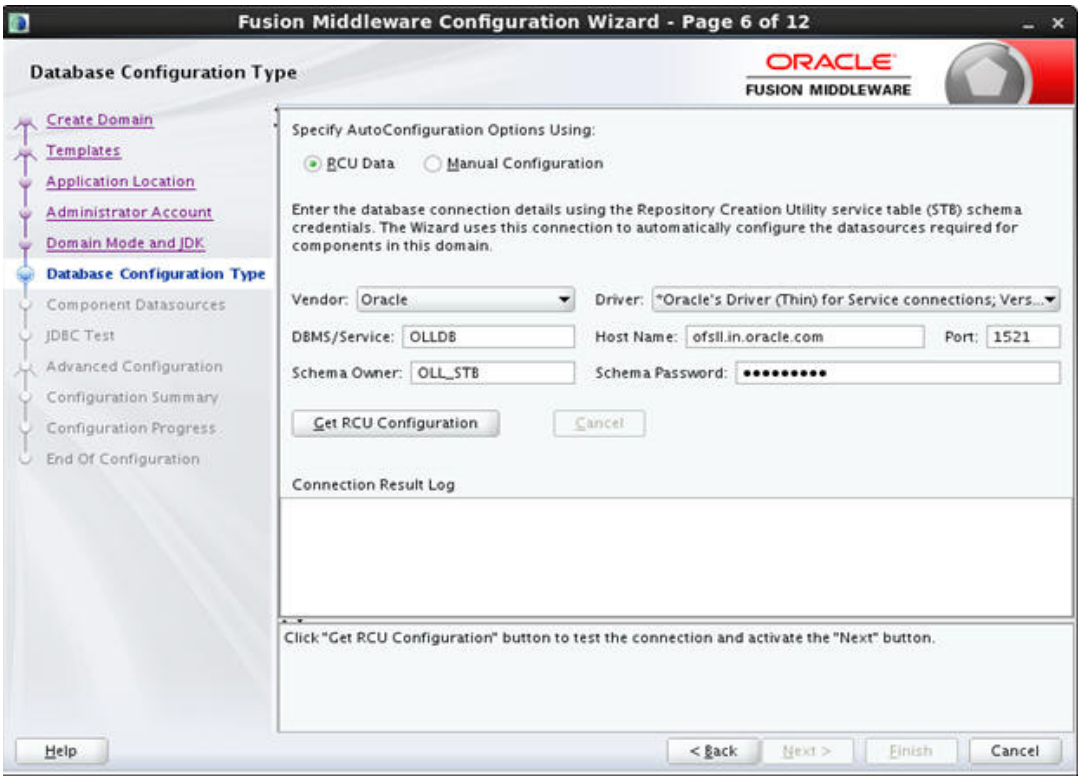


14. Select **Production Mode** and **JDK** from **Available JDKs**

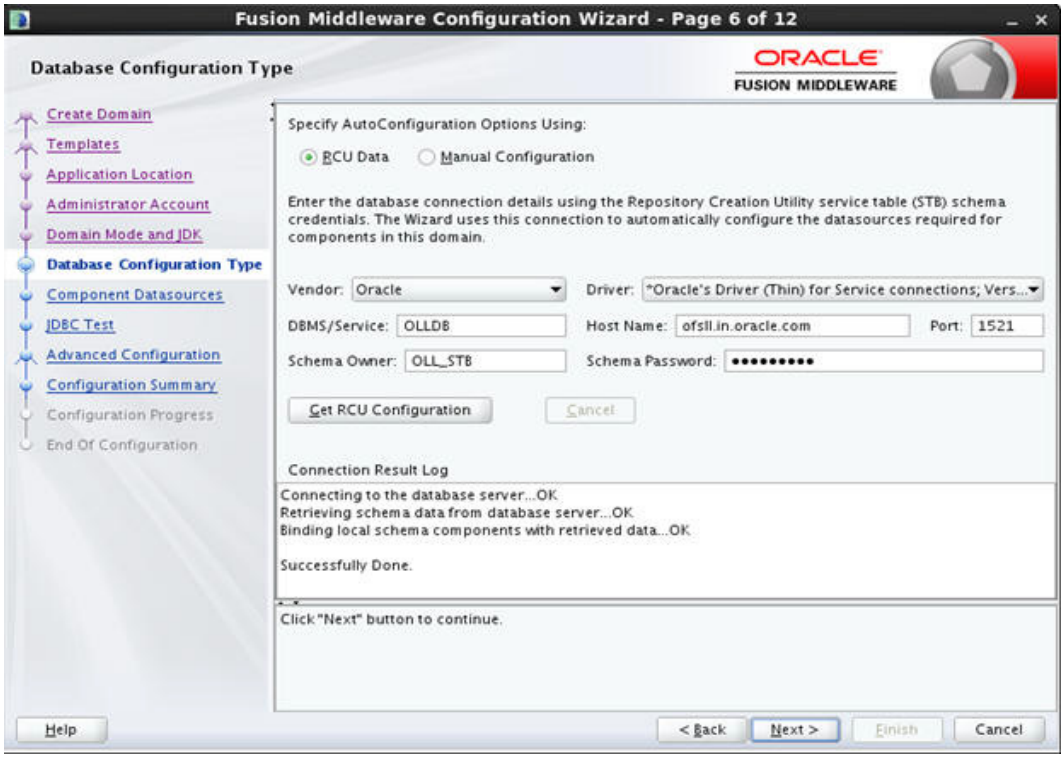
    OR

    Select **Other JDK** option to select any other JDK.

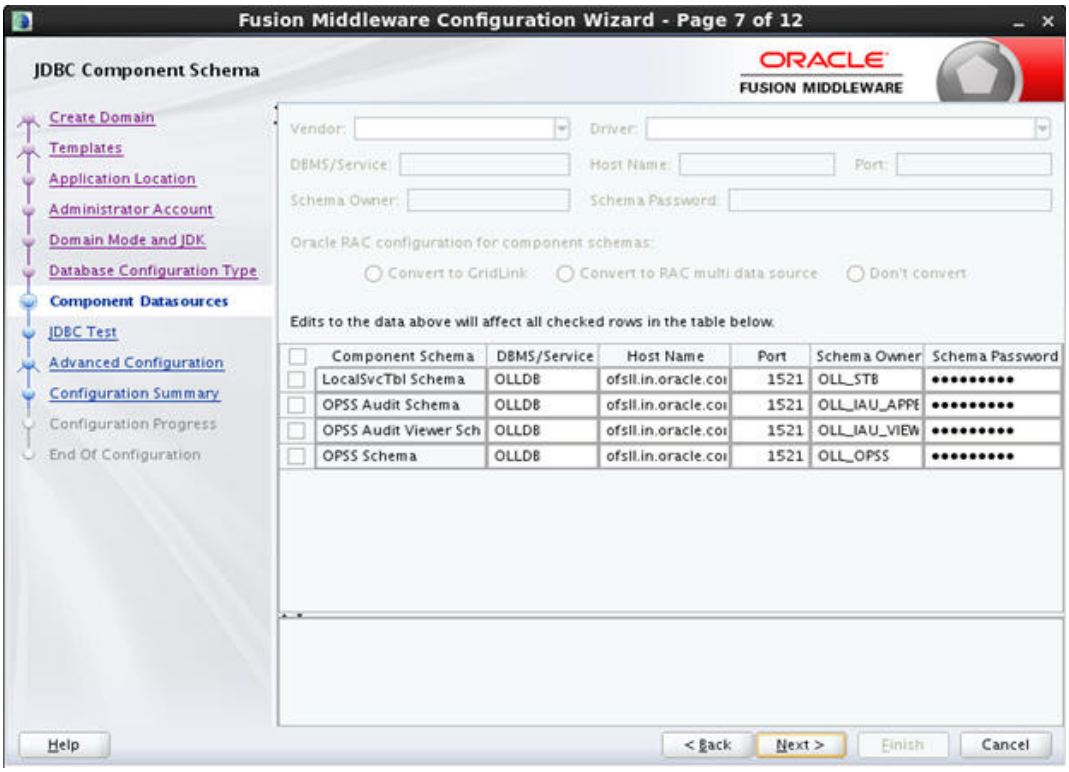
15. Click **Next**. The following window is displayed.



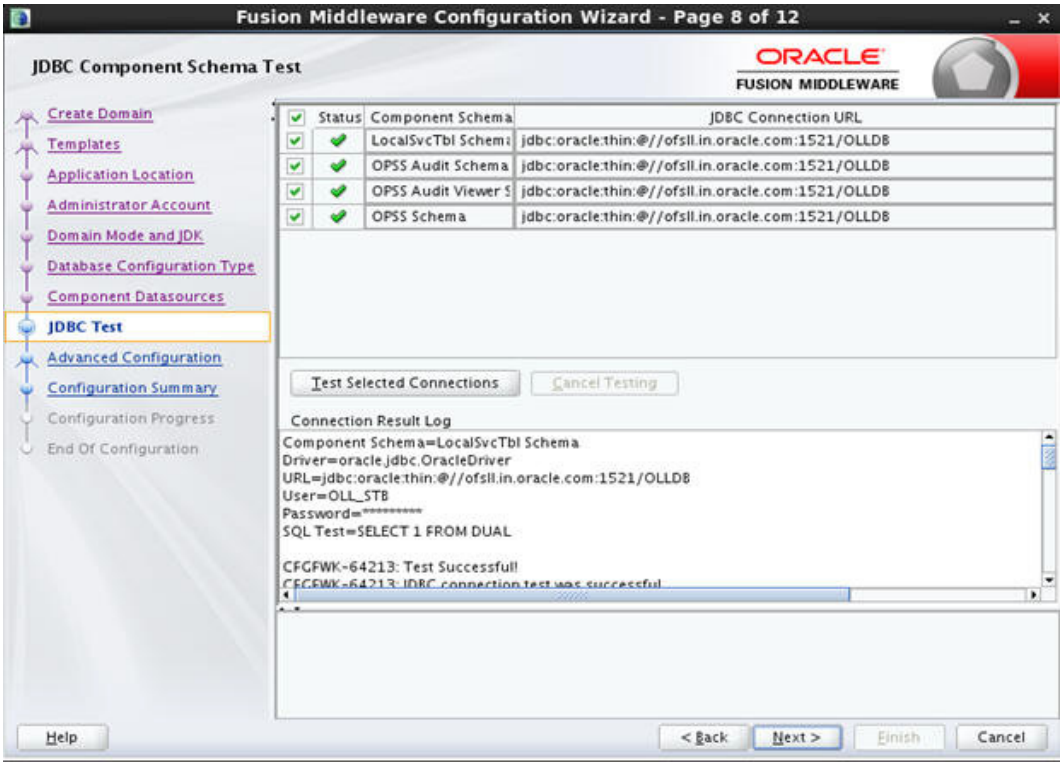
16. Provide the RCU data and click on Get RCU Configuration. The following window is displayed.



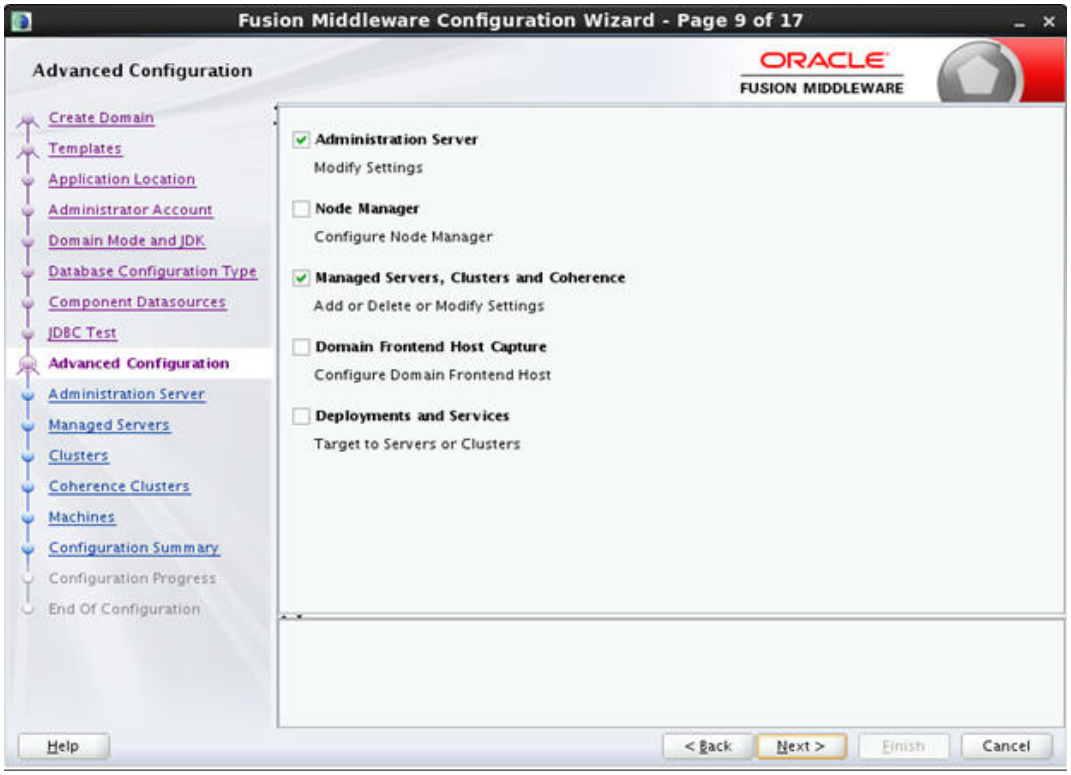
17. Click on **Next** to continue..



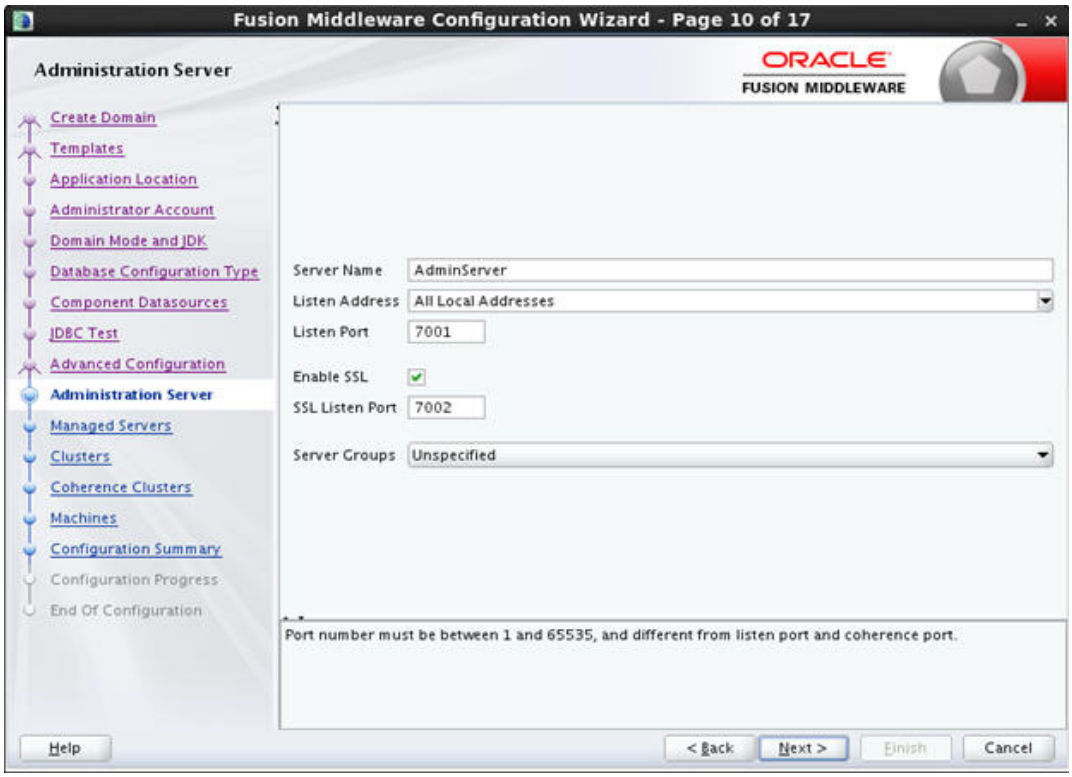
18. . Click on **Next** to continue.



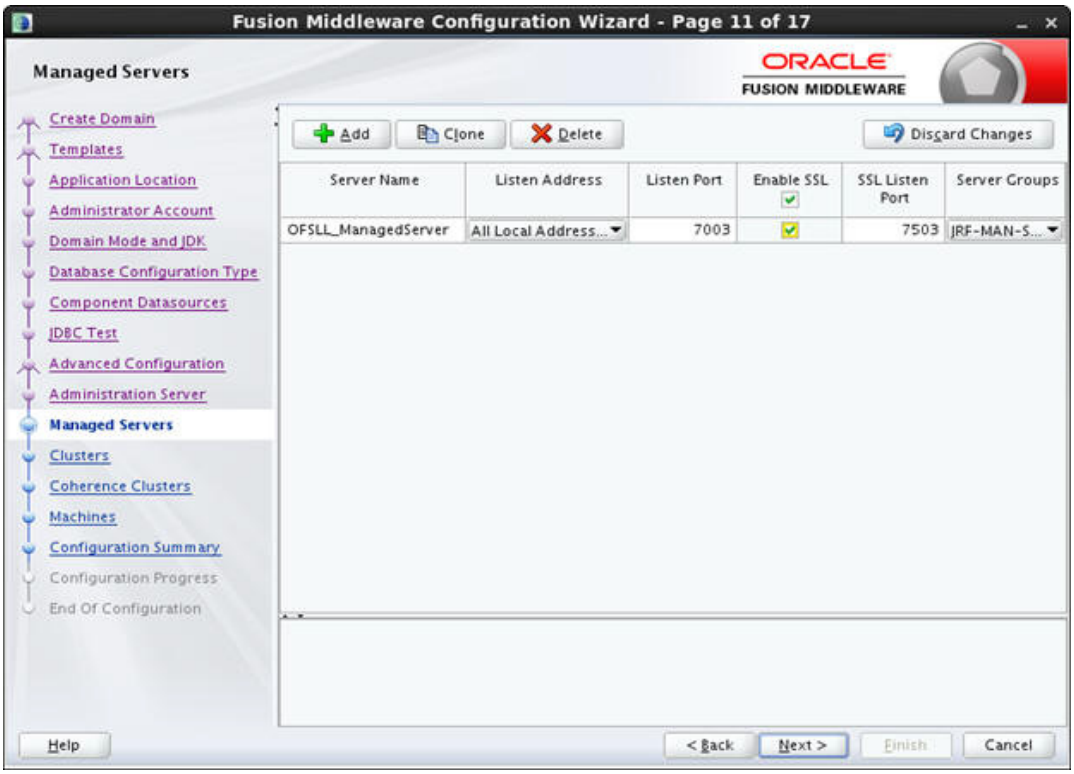
19. Click on **Next** to continue.



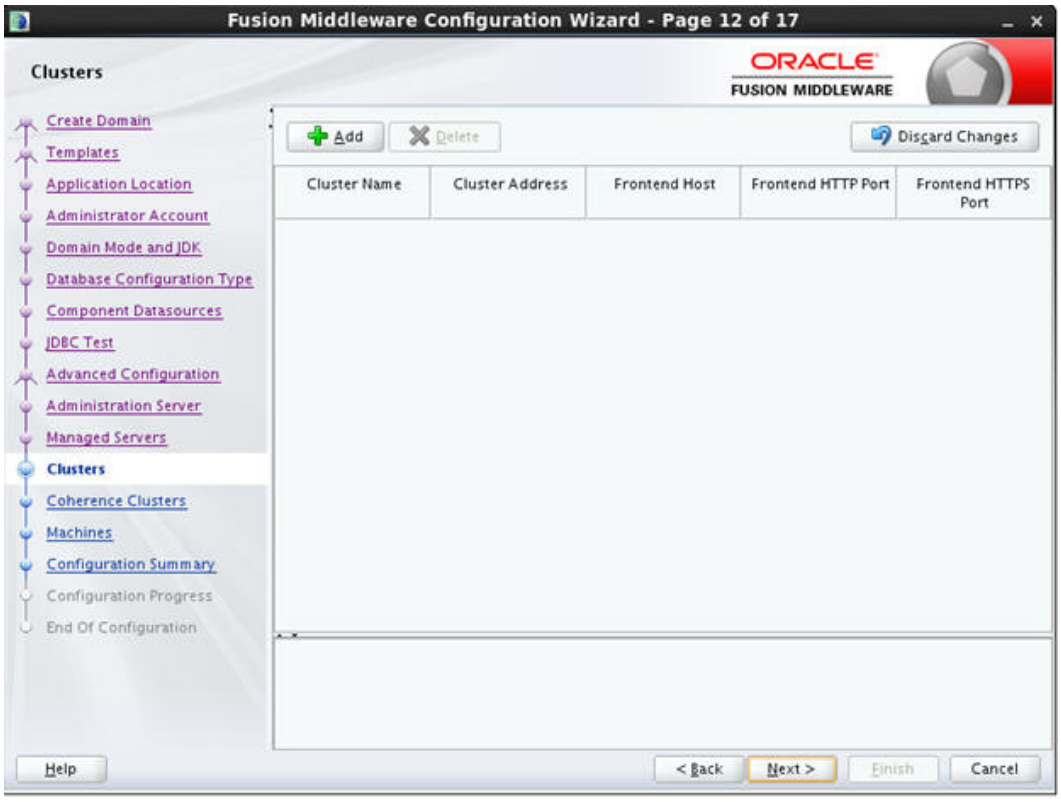
20. Select Administration Server and Managed Servers, Clusters and Machines and click Next. The following window is displayed..



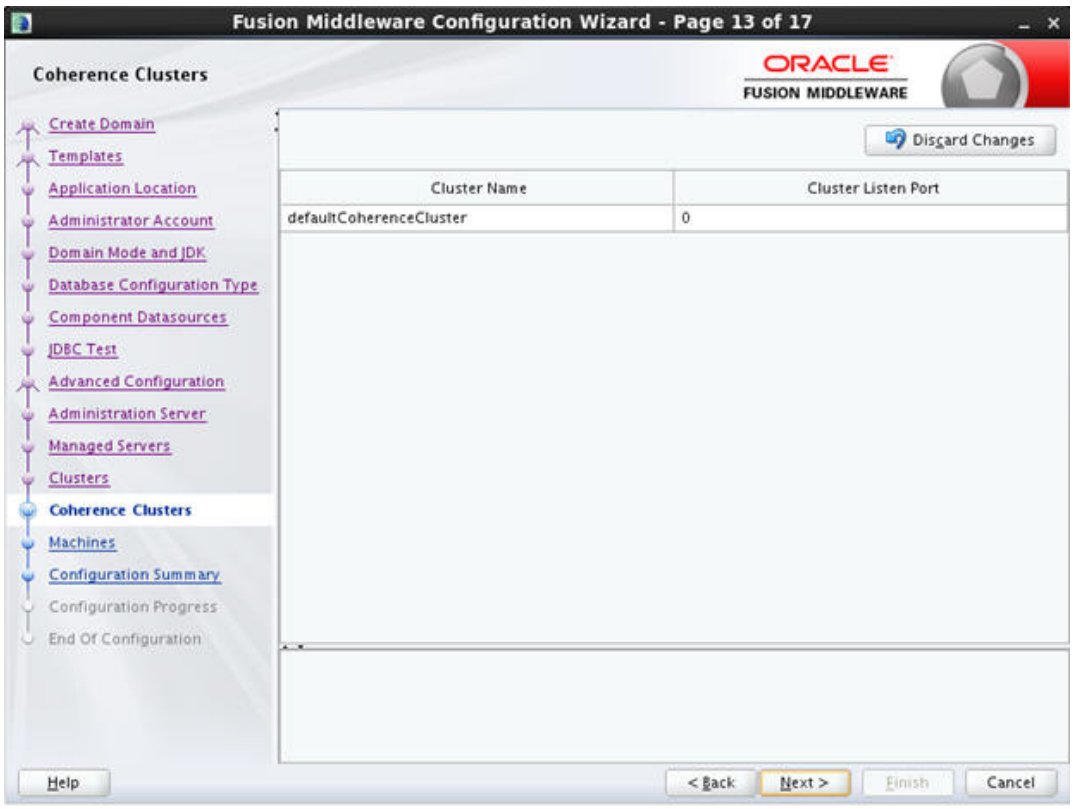
21. Enter Administration Server Name and Listen Port details. Check the SSL port and click **Next**. The following window is displayed.



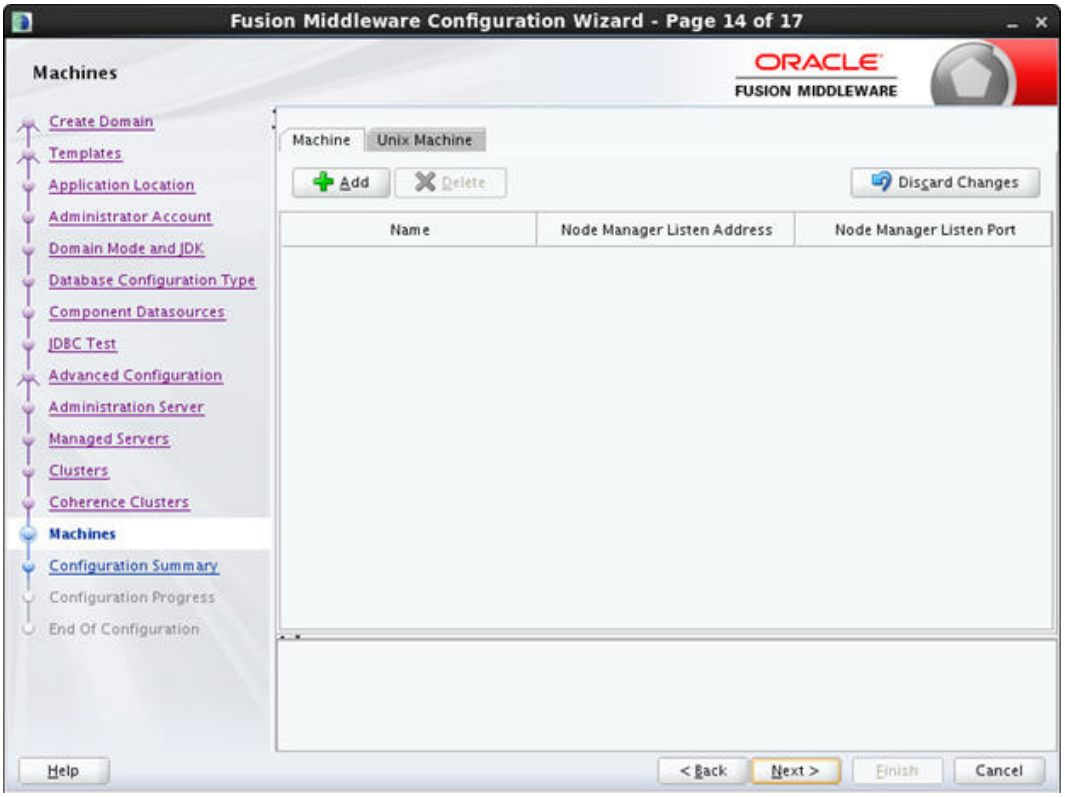
22. Click Add button. Enter Name and Listen Port details in Configure Managed Servers window. Check the SSL port and click Next. The following window is displayed.



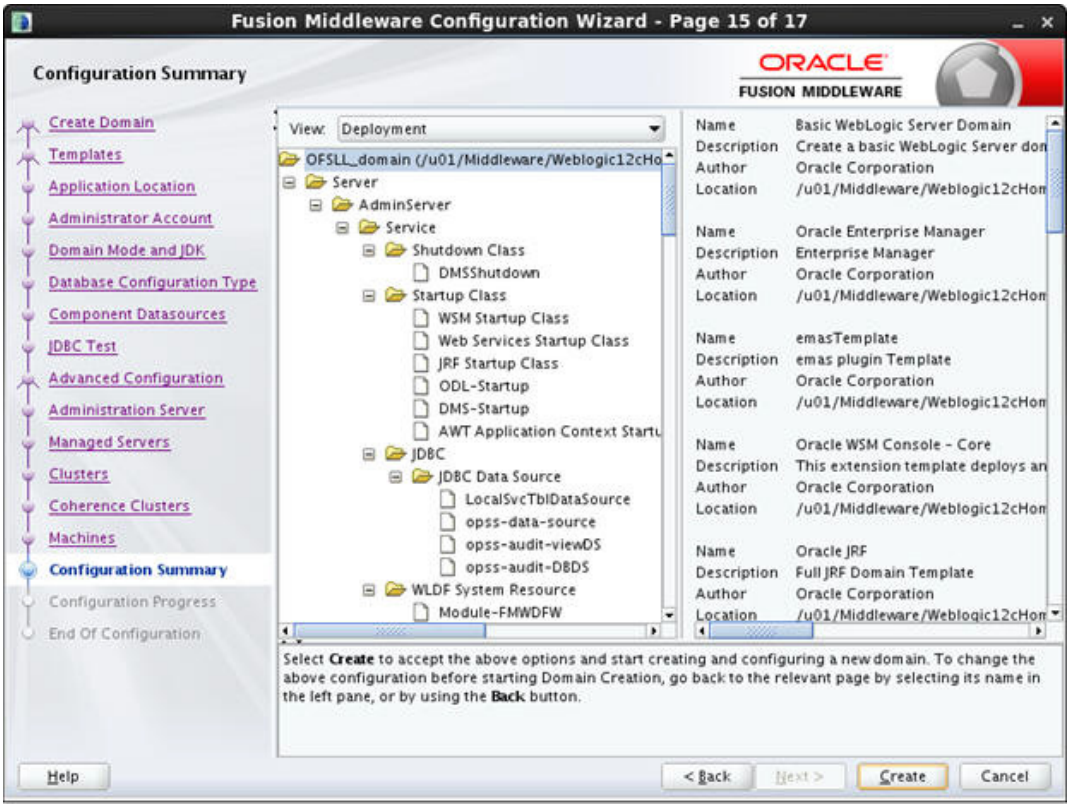
23. Configure as required and click **Next**. The following window is displayed.



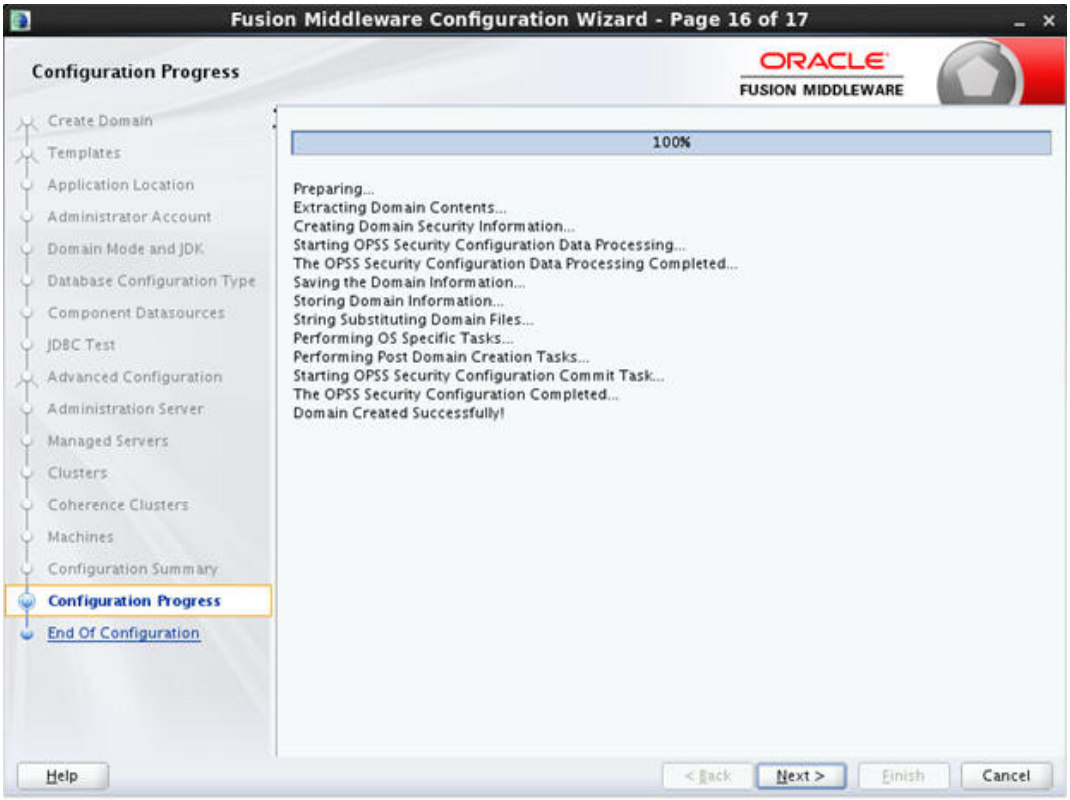
24. Configure as required and click Next. The following window is displayed.



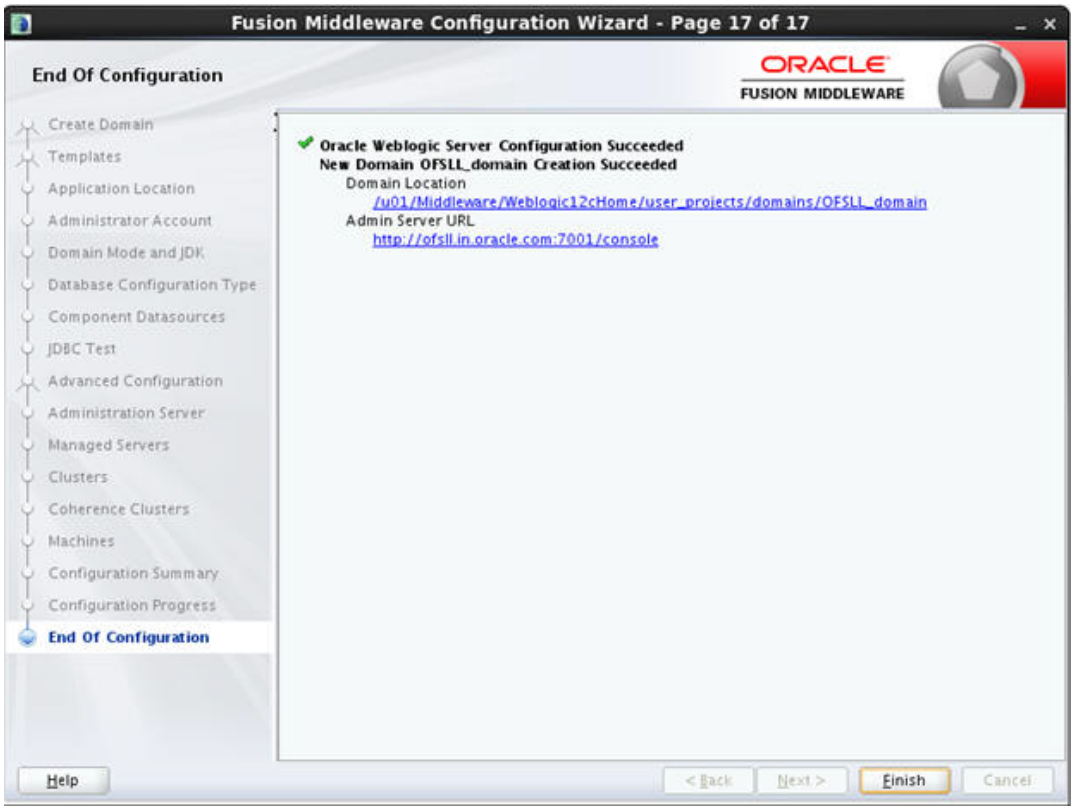
25. Configure as required and click Next. The following window is displayed.



26. Click Create. The following window is displayed.



27. Click **Next** to continue.



28. Once the creation of the Domain is complete, click **Finish** to close the window.

Note

The default Weblogic installation will be running JVM with 512MB, this has to be increased for the ADF managed server. Say, for a 2 CPU Quad Core with 16 GB it could have the JVM running at 8 GB as:

USER_MEM_ARGS="-Xms8192m –Xmx8192m -XX:PermSize=2048m -XX:Max-PermSize=2048m"

29. The "$MW_HOME/user_projects/domains/mydomain" directory contains a script that can be used to start the Admin server.

    $ cd $MW_HOME/user_projects/domains/mydomain/bin

    $ ./startWebLogic.sh

    If the server is required to be running and access to command line needs to be returned use “nohup” and “&”

    $ nohup ./startWebLogic.sh &

30. To Start Managed Server

    $ cd $MW_HOME/user_projects/domains/mydomain/bin

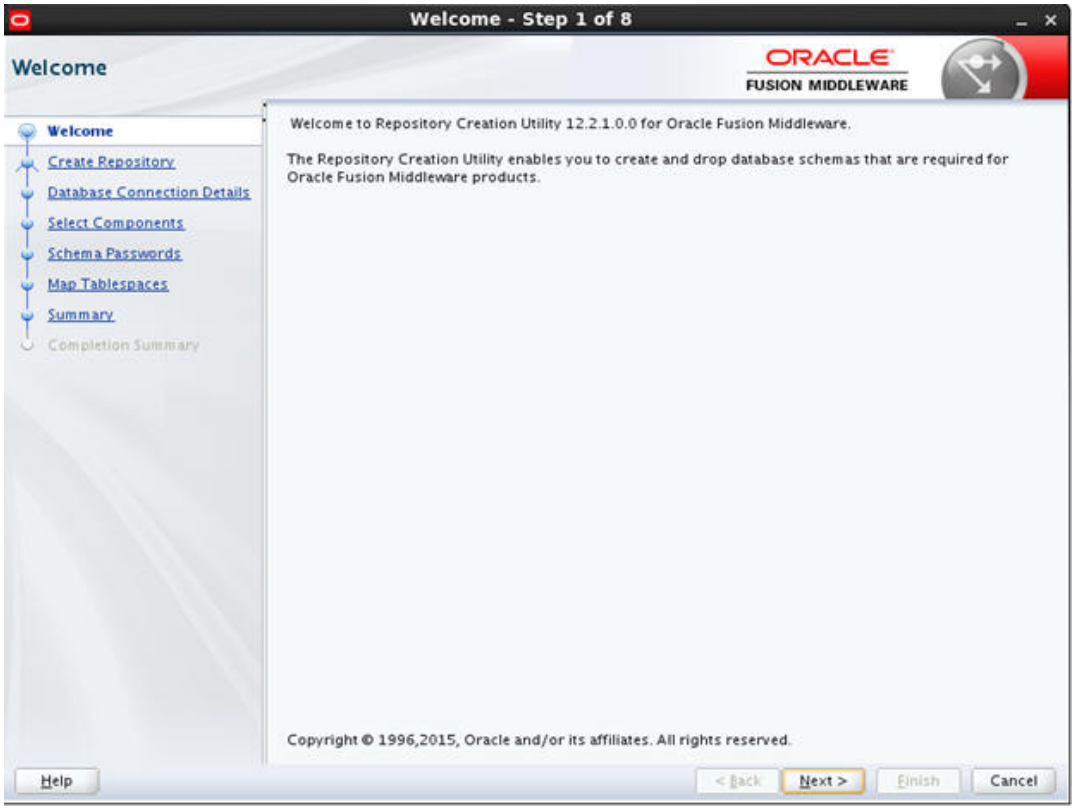
    $ ./$MW_HOME/user_projects/domains/mydomain/bin/startManagedWebLogic.sh {ManagedServer_name} {AdminServer URL}

    If the server is required to be running and access to command line needs to be returned use "nohup" and "&".

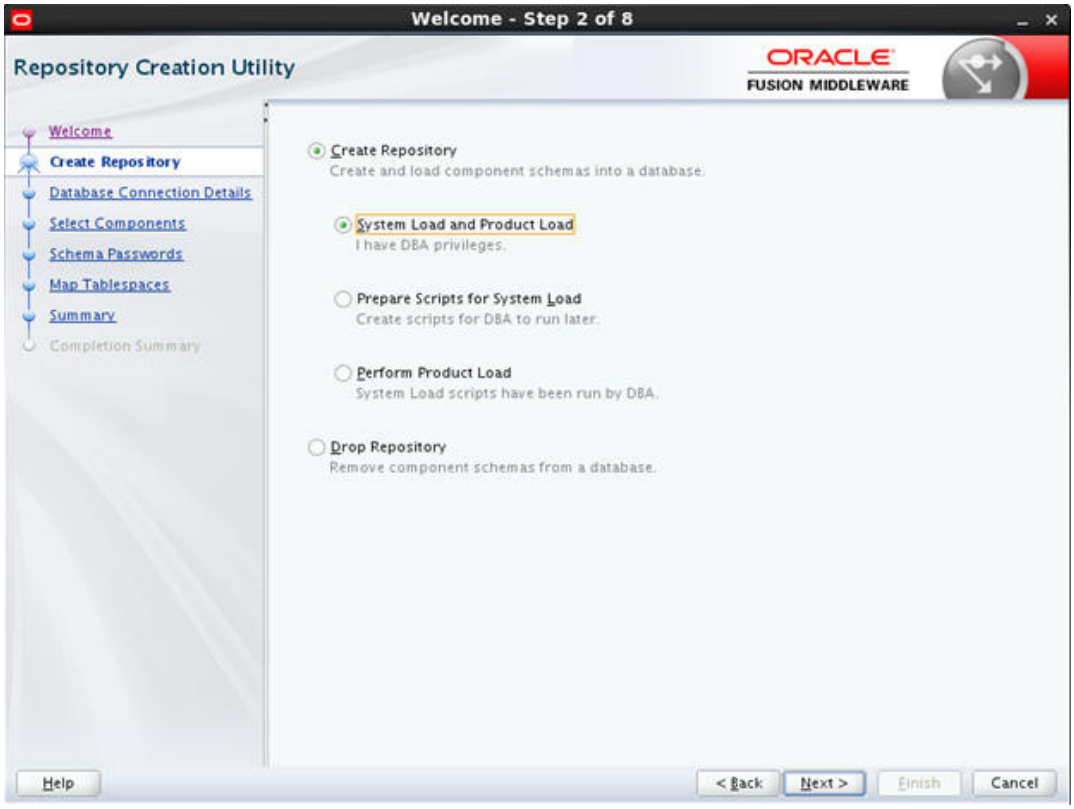
    $ nohup ./$MW_HOME/user_projects/domains/mydomain/bin/ startManagedWebLogic.sh {ManagedServer_name} {AdminServer URL} &

3.2 Creating Schemas using Repository Creation Utility

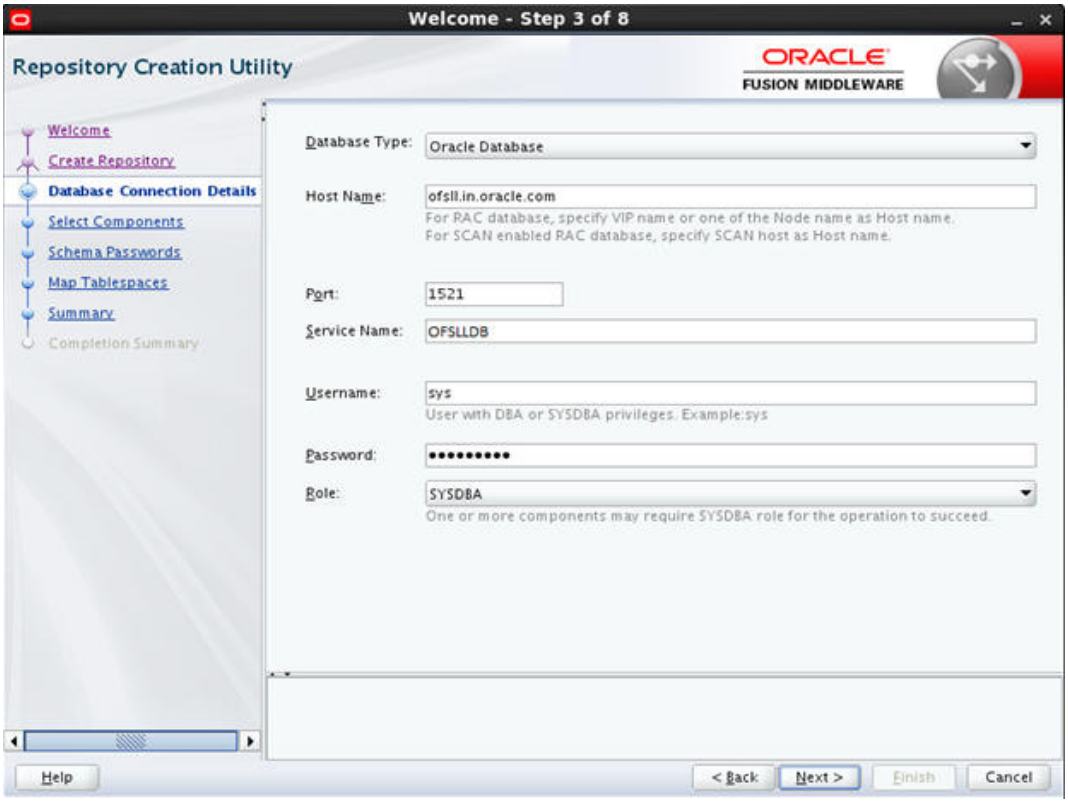
1. Open command prompt on Unix and browse to <WL_HOME>/oracle_common/bin and run ./rcu. The following window is displayed.



2. Click on **Next** to continue..



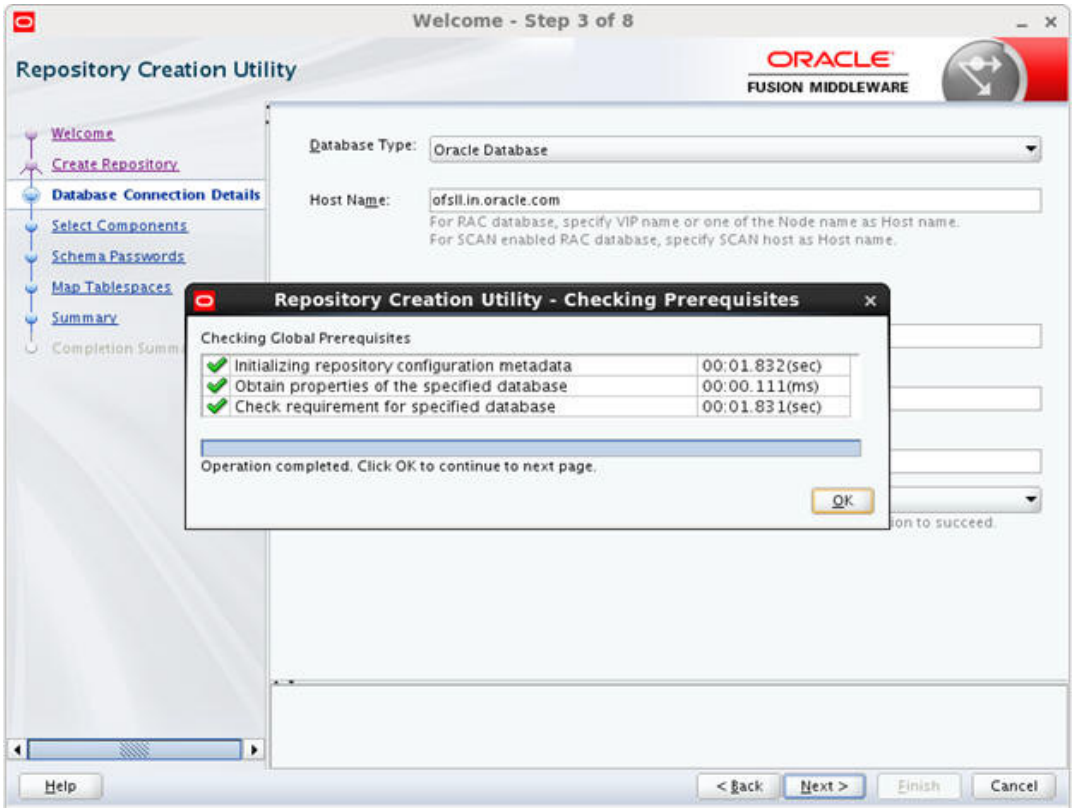
3. Select **Create Repository and System Load and Product Load** and click **Next**. The following screen is displayed..



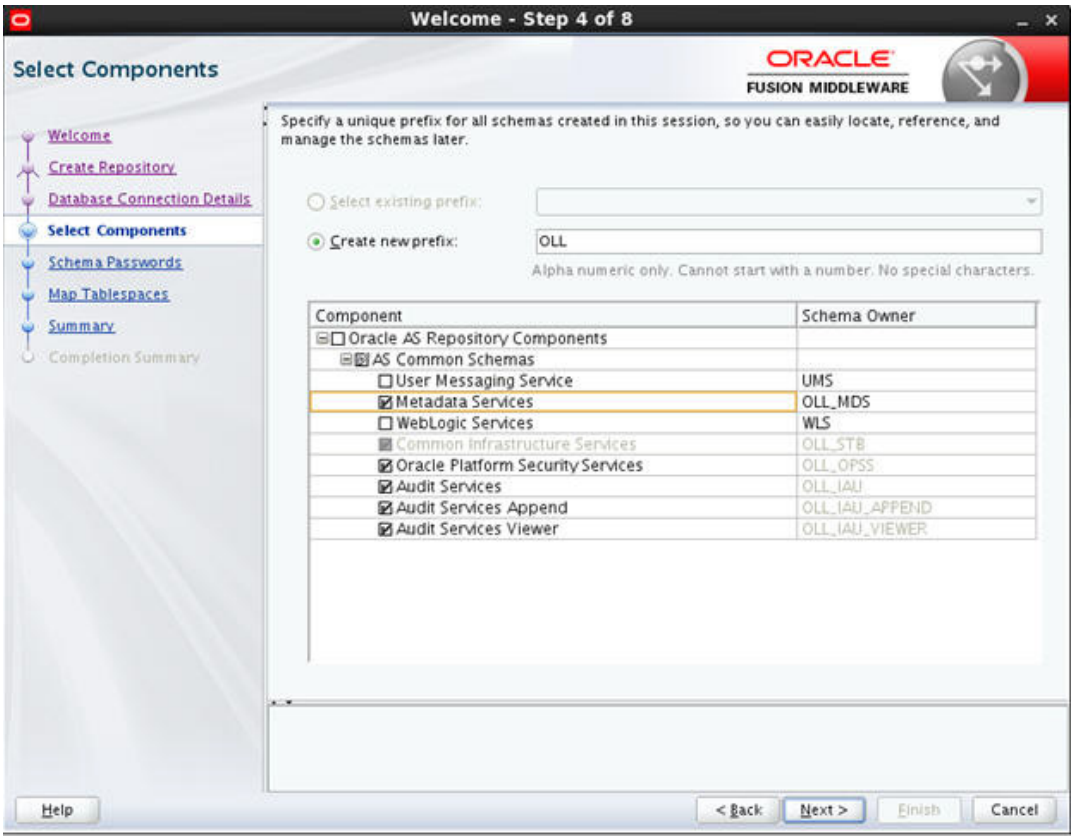
4. Provide database details where you want to create schemas, as shown in the above screen. Click on Next. The following window is displayed.

Note

You will require a user with SYSDBA role to create schemas.

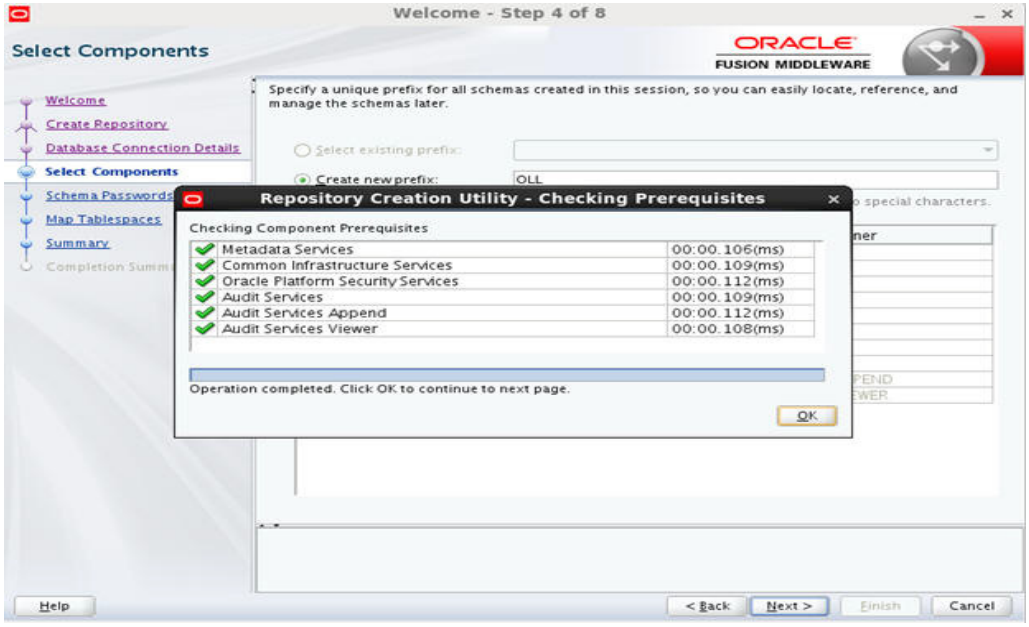


5. Click on OK. Click on Next to continue.

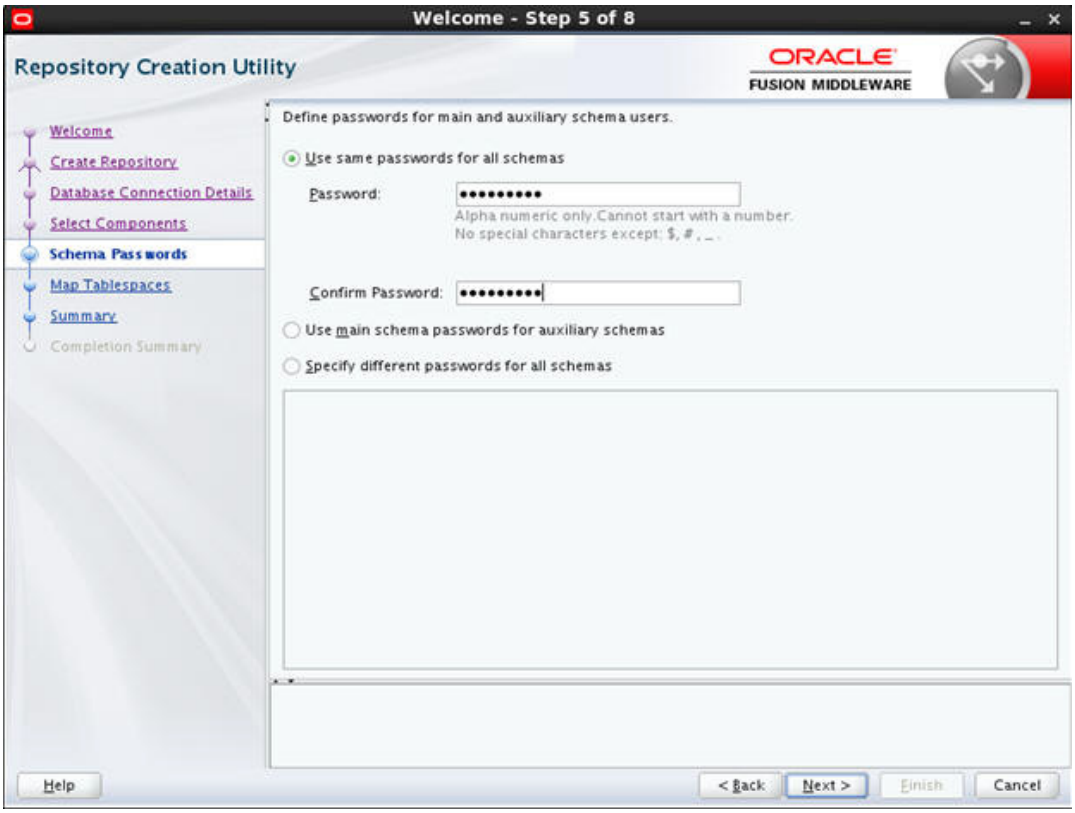


6. Select **Create a new Prefix** option and specify value. For example, OLL. Check **Metadata Services** and **Oracle Platform Security Services** as shown in the above screen.

7. Click **Next**. The following window is displayed.

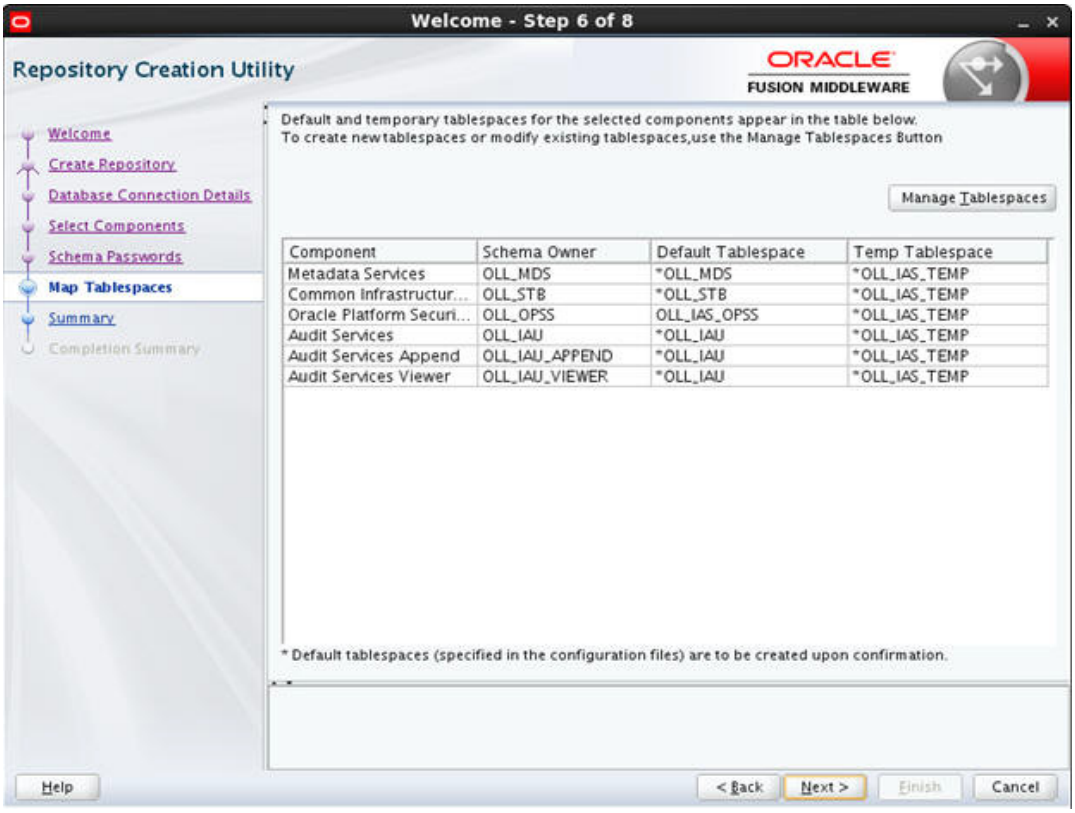


8. Click **Next**..

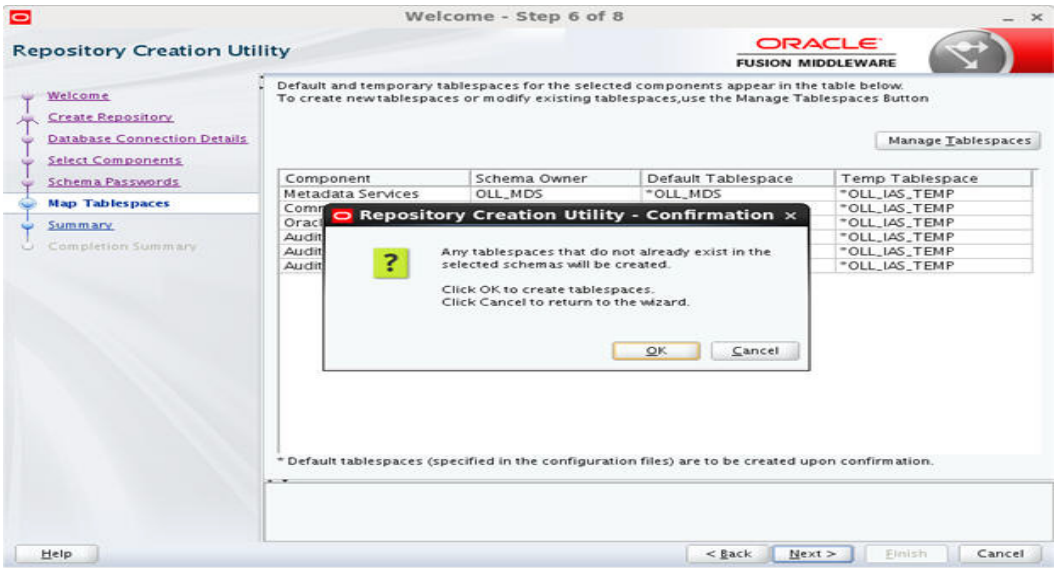


9. Select **Use Same Password for all schemas** and provide the Password OR **Select Specify different passwords for all schemas** and provide Schema Passwords for each server.

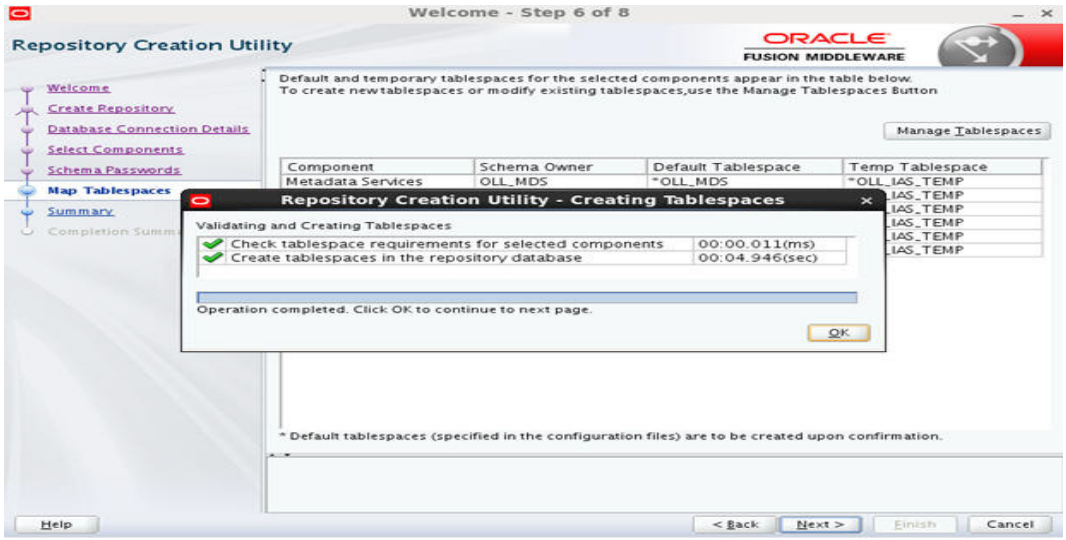
10. Click on Next to continue..



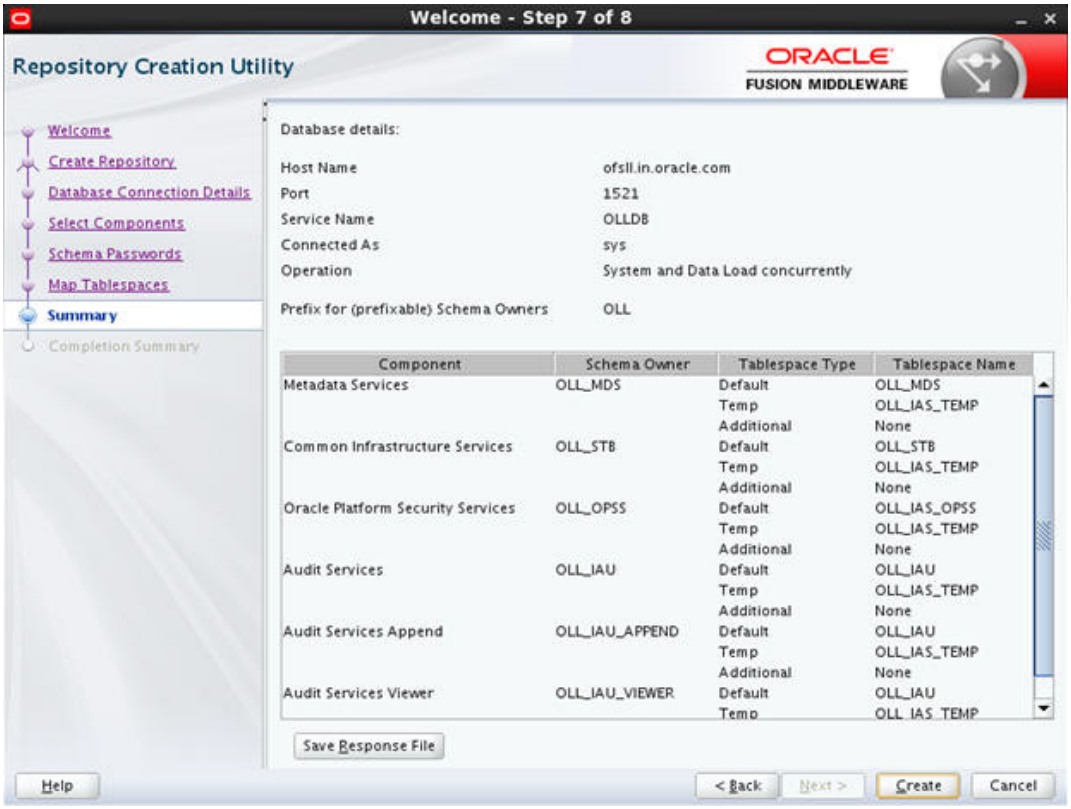
11. Click **Next**. The following window is displayed.



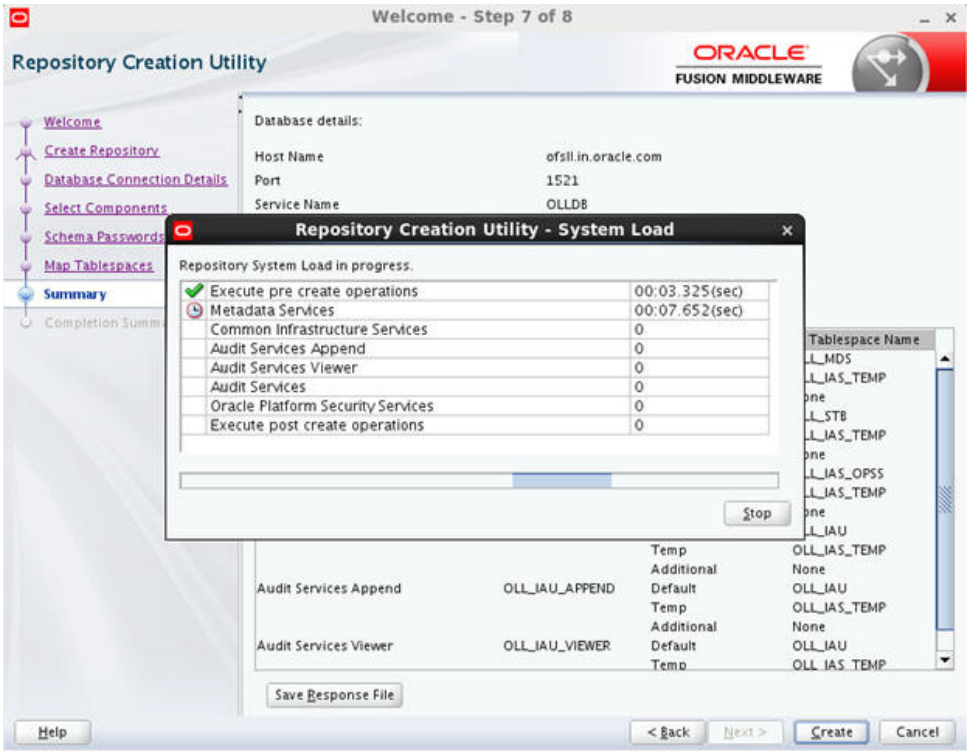
12. Click **OK**. The following window is displayed.

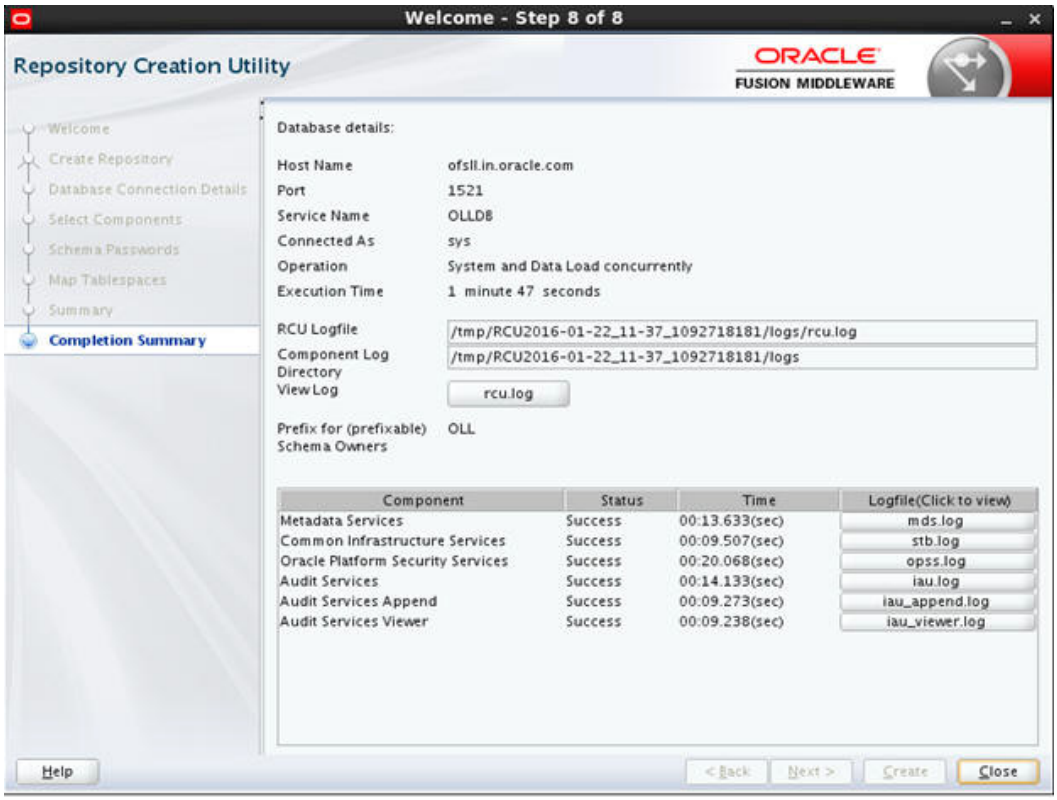


13. Click **OK**. The following window is displayed.



14. Click **Create.** The following windows are displayed.



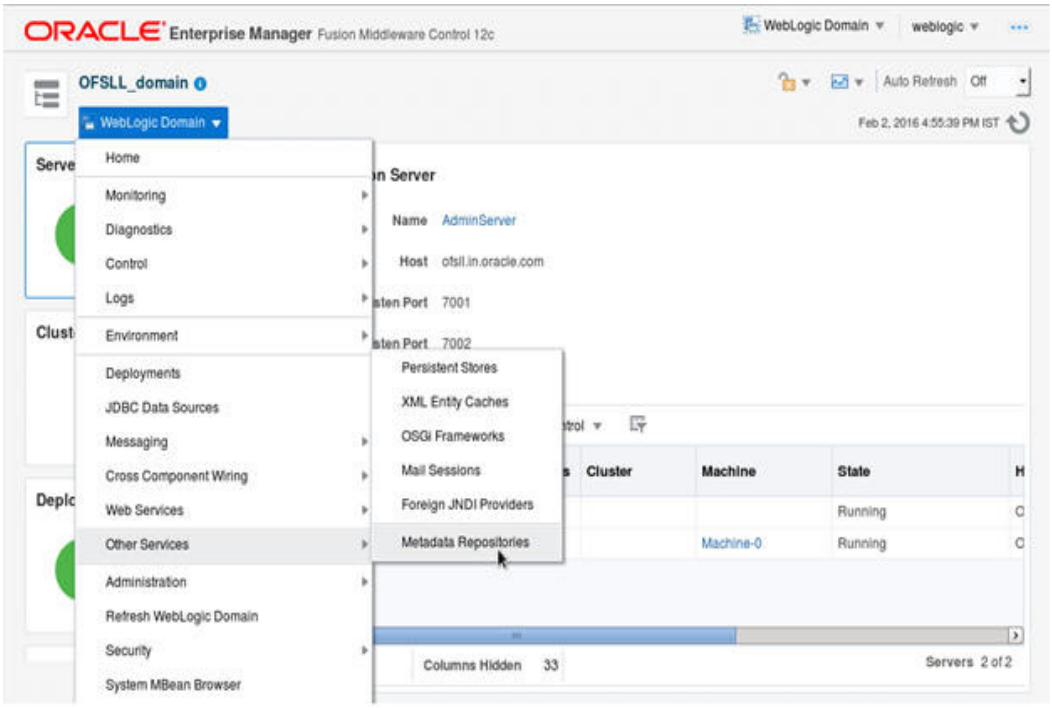


15. Click **Close** to close the window.

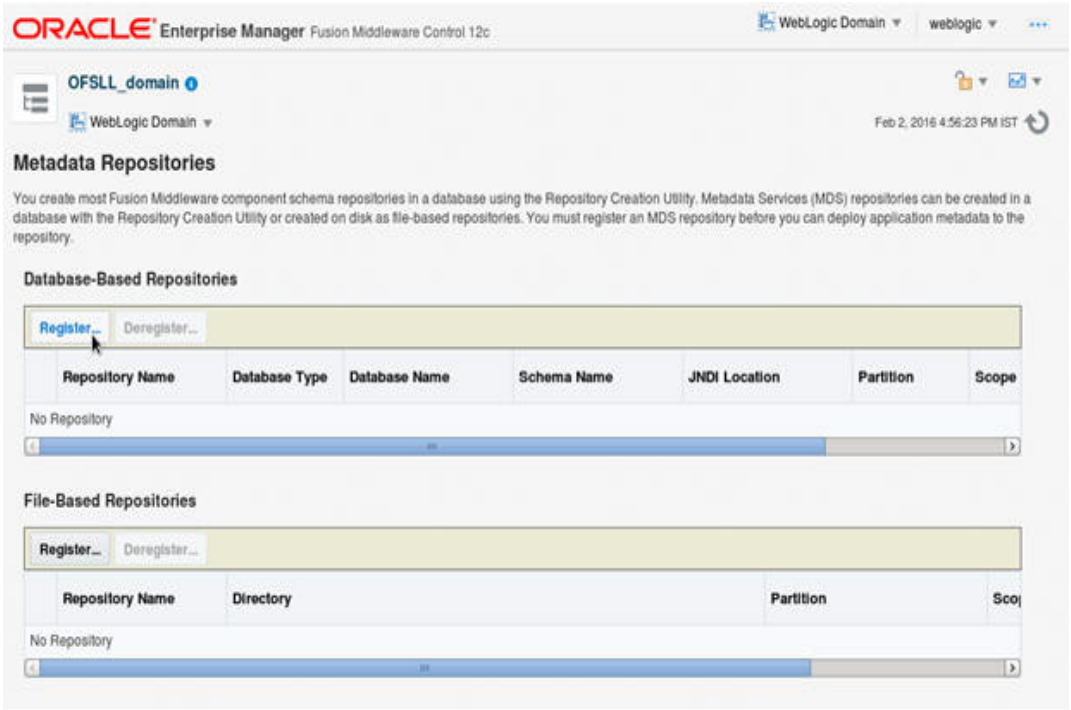
3.3 Creating Metadata Repository

Assuming that **OLL_MDS** schema is created using Oracle Repository Creation Utility (RCU) as mentioned in Creating Schemas using Repository Creation Utility section, follow the below steps to create the repository.

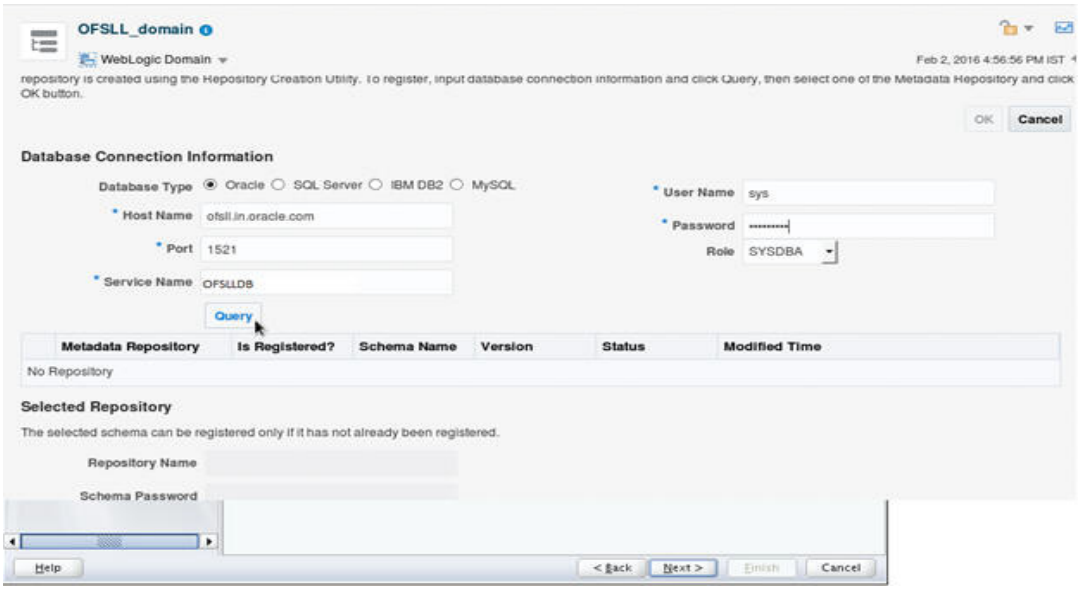
1. Login to Oracle Enterprise Manager 12c console (http://hostname:port/em).



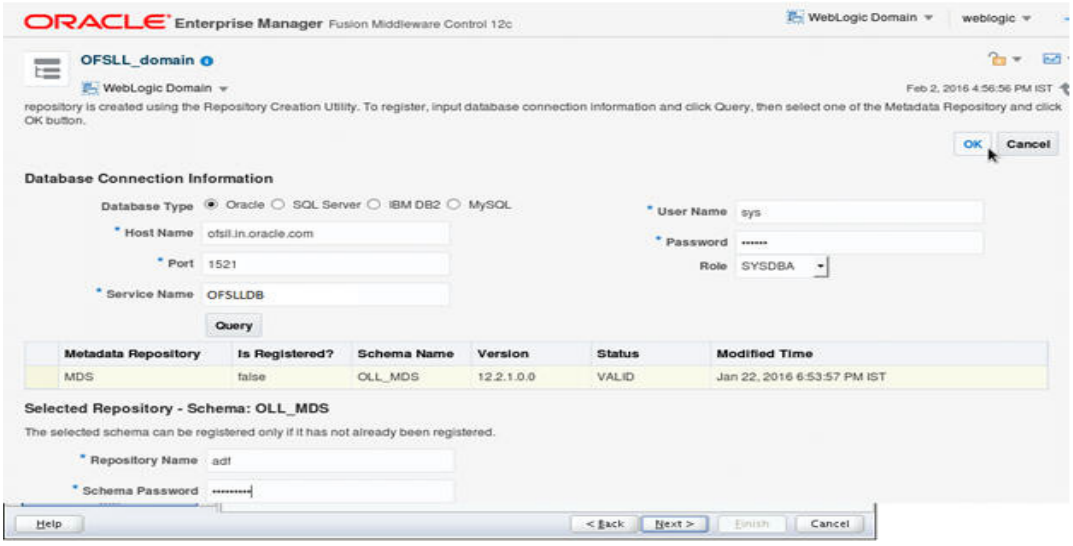
2. Click on domain name OFSLL_domain on the left side panel.
3. Expand Weblogic domain OFSLL_domain and click Metadata Repositories on right side panel, as shown above screen.
4. The following window is displayed.



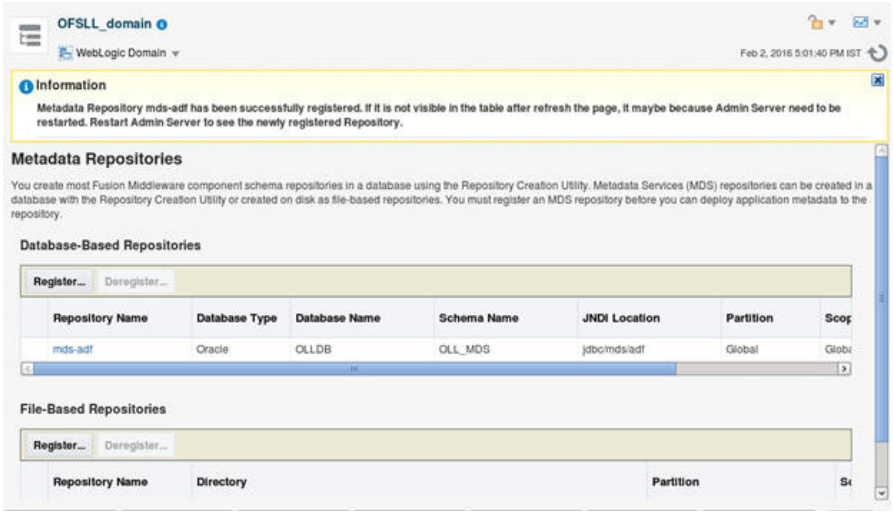
5. Click Register button. The following window is displayed.



6. Enter database instance details under Database Connection Information section and click **Query**.
7. All available schemas in the given database instance are listed.
8. Select the schema you require and enter **Repository Name (adf)** and the password under Selected Repository – Schema **OLL_MDS** section.
9. Click OK. The following window is displayed.



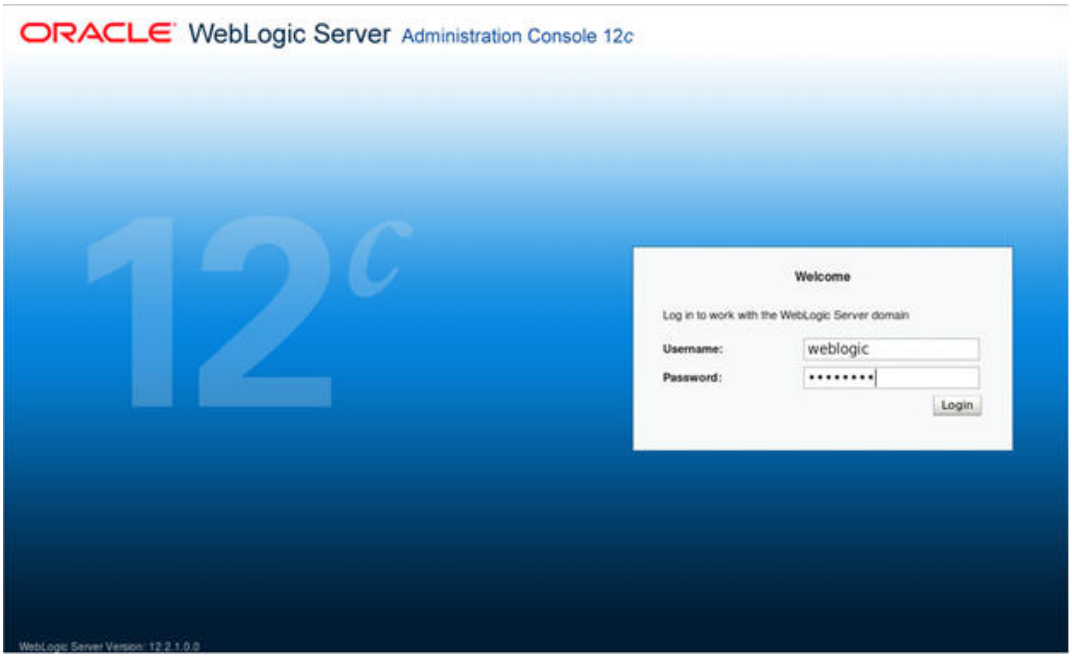
10. Click Repository name **mds-adf** on left panel. You can even select it from right panel.



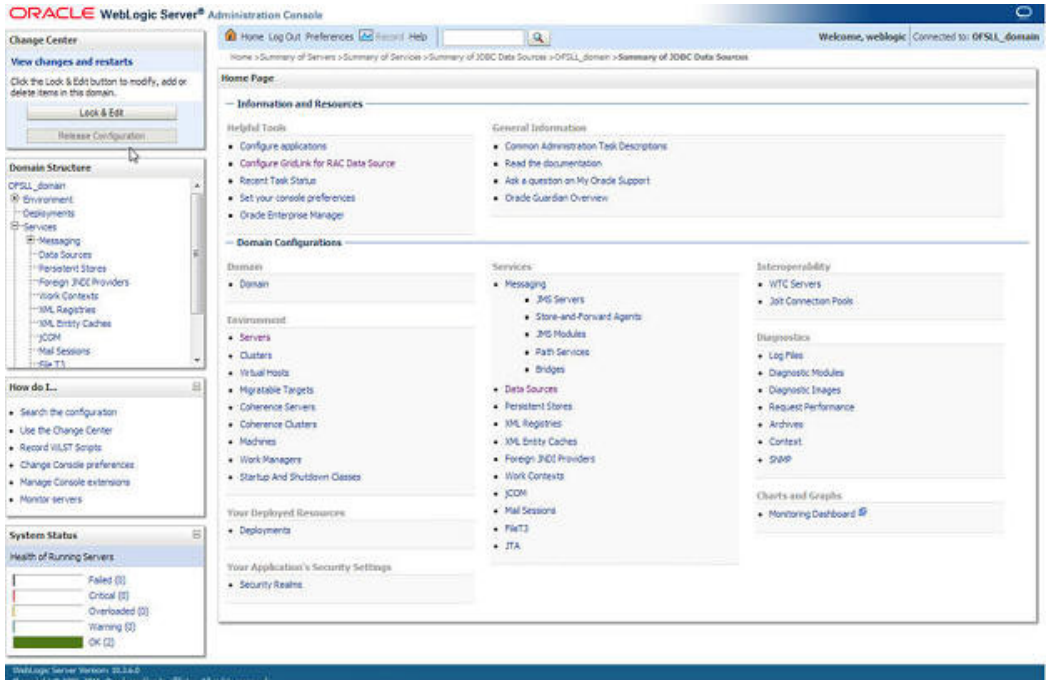
11. Click Add and target to OFSLL_AdminSever and OFSLL_ManagedServer as on right panel.

3.4 Creating Data Source

1. Login to WebLogic Server 12c console (http://hostname:port/console).

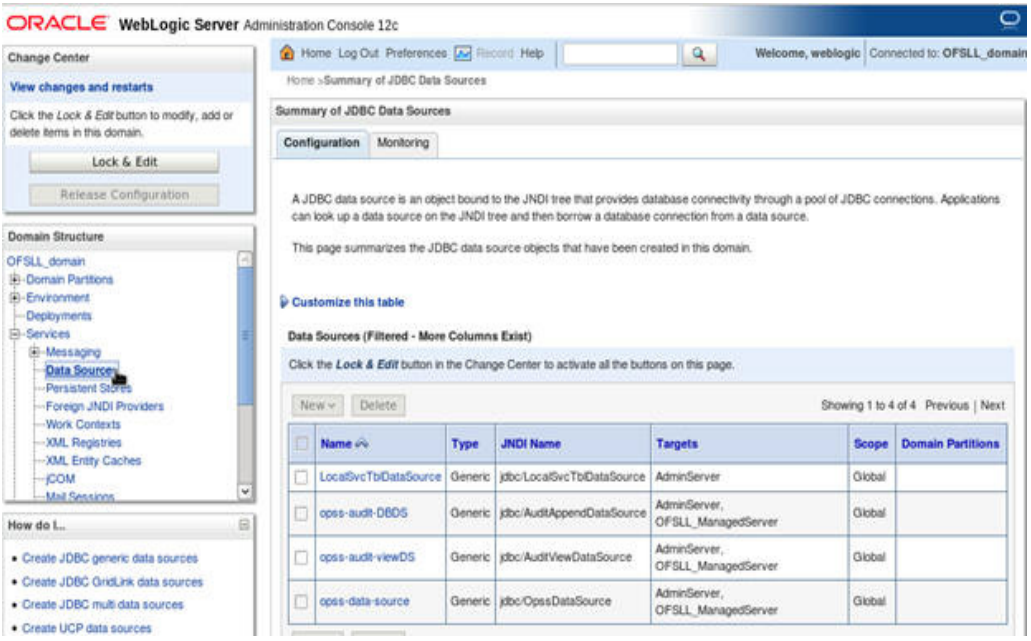


2. The following window is displayed.

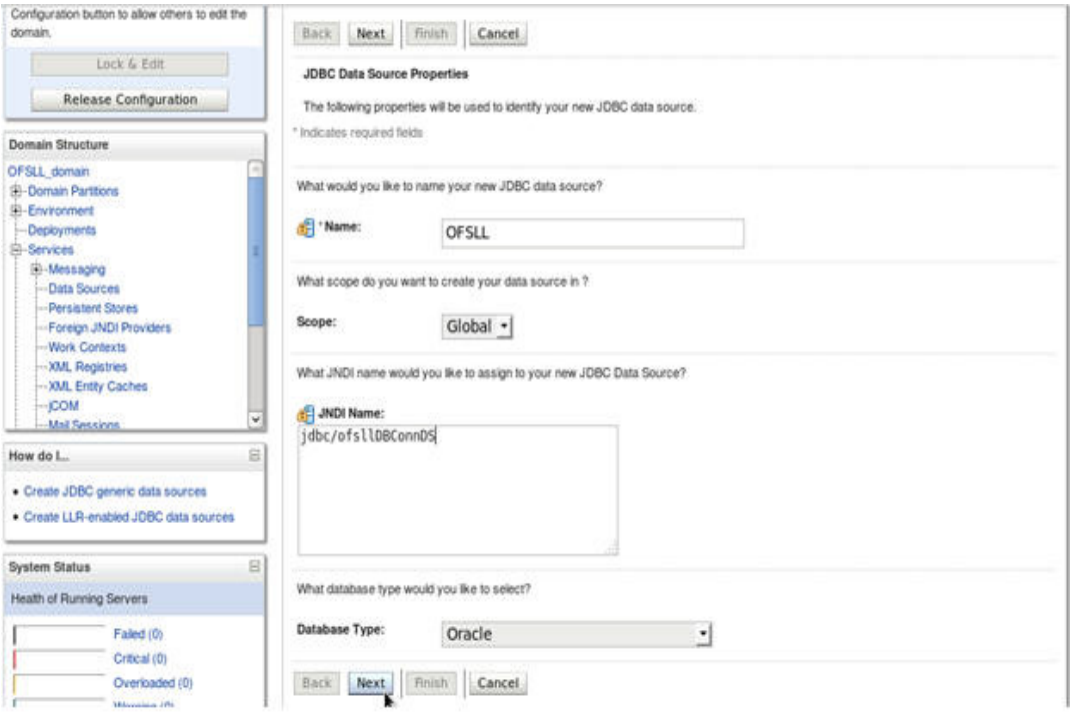


3. Click Domain Name → Services → Data Sources.

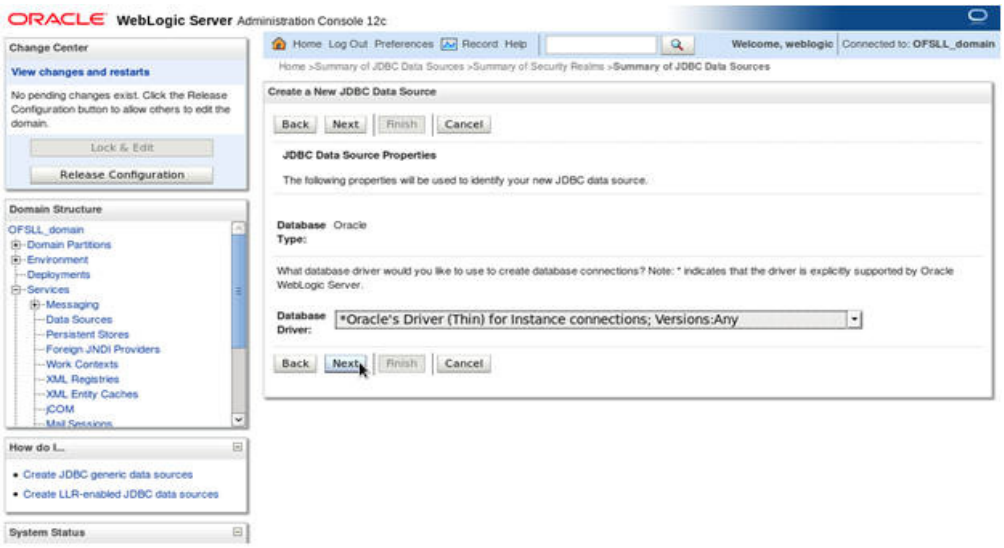
4. The following window is displayed.



5. Click **Lock & Edit** button on the left panel. Click **New** on right panel and select **Generic Data Source**.

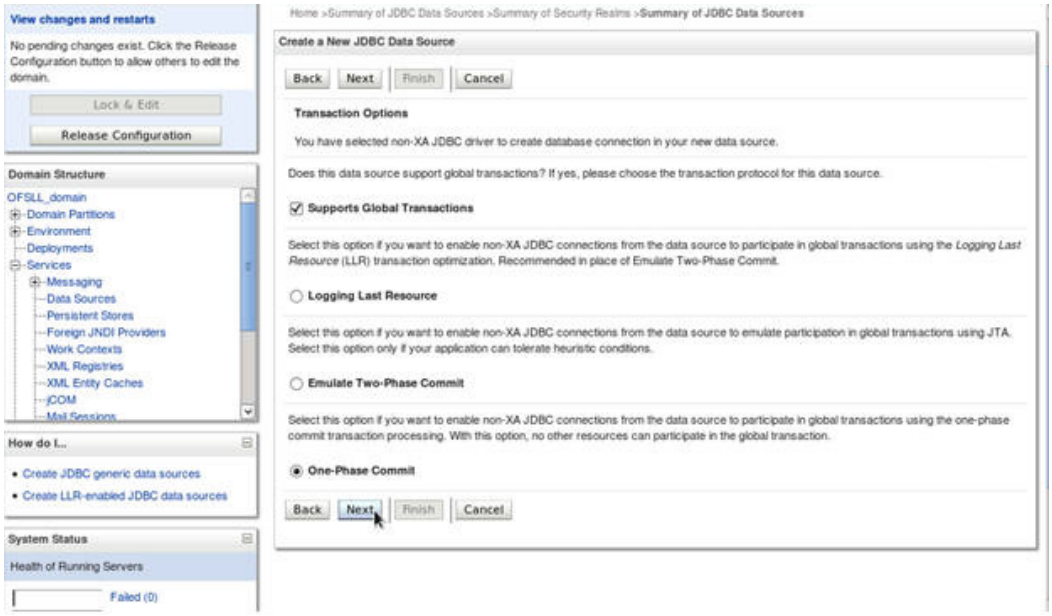


6. Enter Data source **Name**
7. Enter **JNDI Name** as **jdbc/ofsllDBConnDS**.
8. Select **Oracle** as **Database Type** and click **Next**. The following window is displayed.

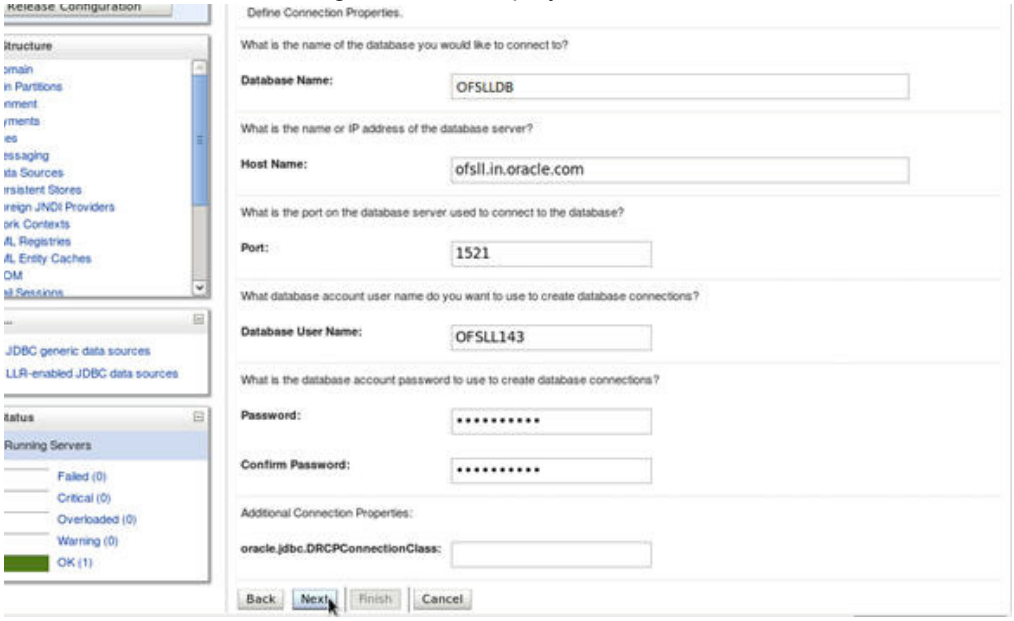


9. Select the Database Driver "Oracle's Driver(Thin) for Instance connections; Versions:Any and later" as shown above.

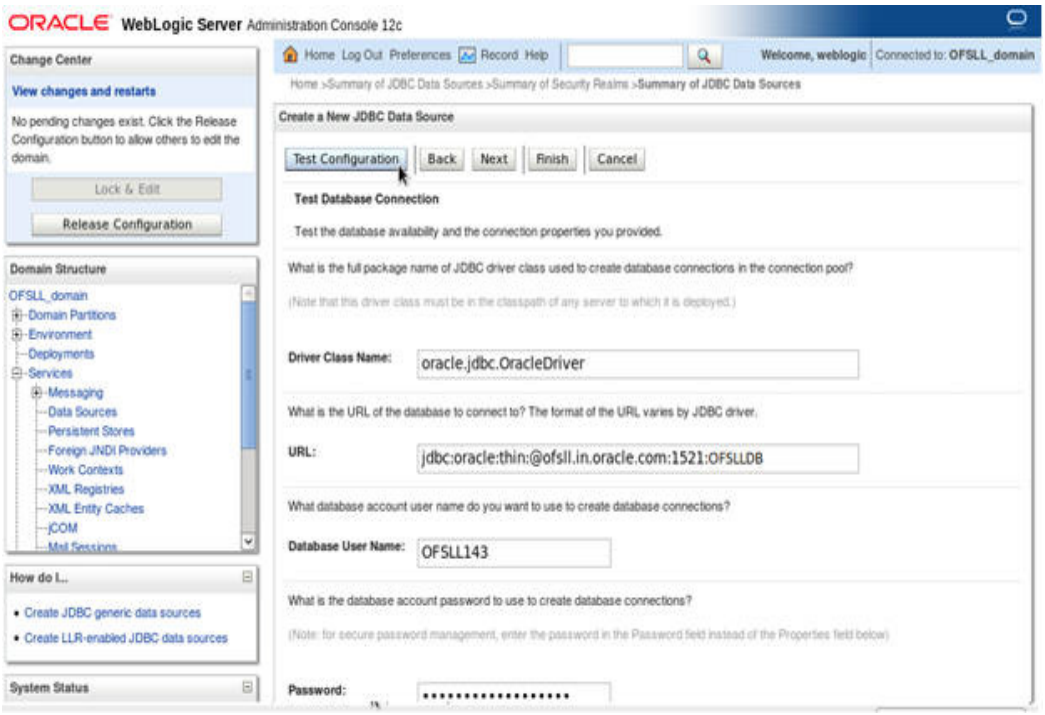
10. Click **Next**. The following window is displayed.



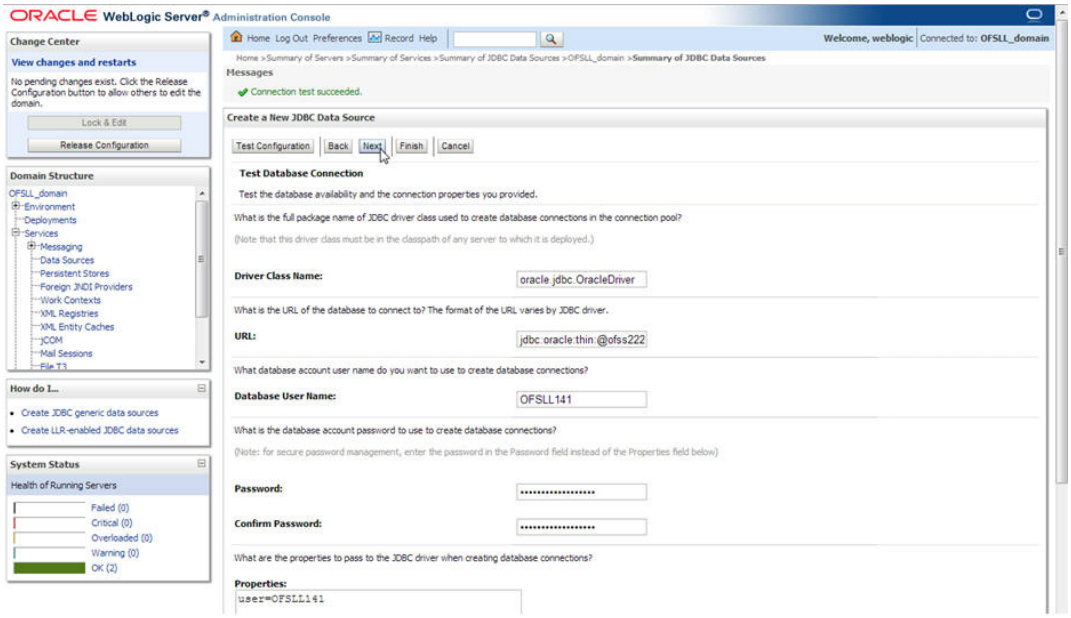
11. Click **Next**. The following window is displayed.



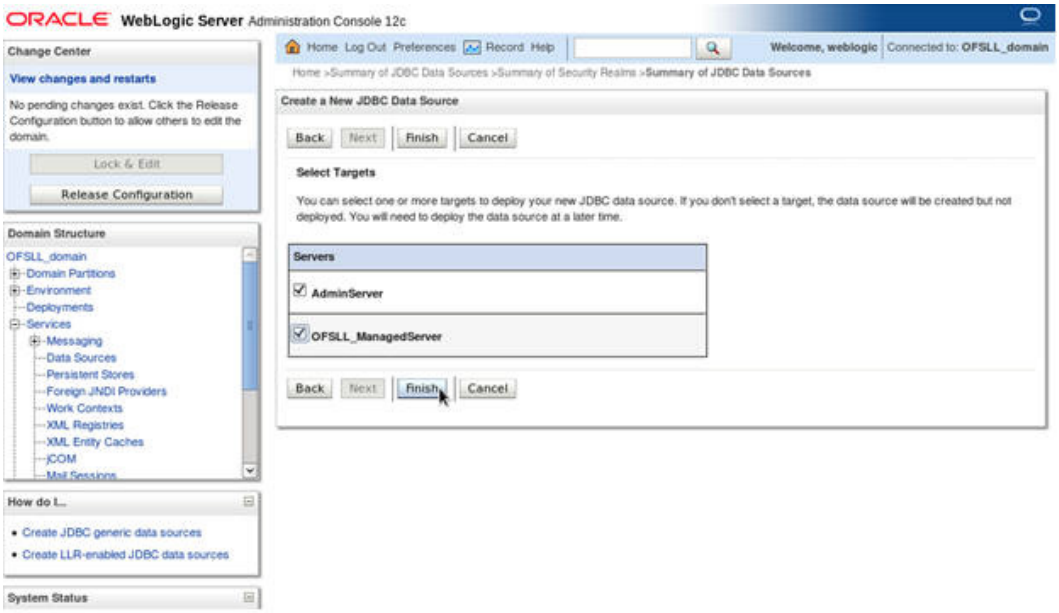
12. Enter Database details click **Next**. The following window is displayed.



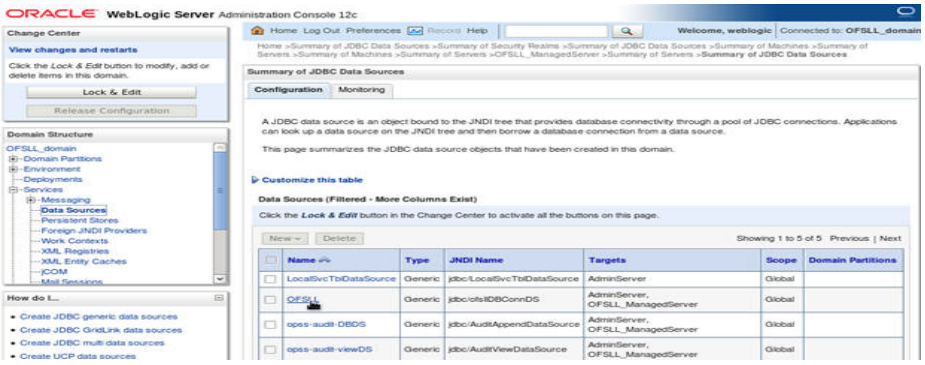
13. Click **Test Configuration**. The following window is displayed.



14. Displays confirmation message as “Connection test succeeded”. Click **Next**. The following window is displayed.



15. Select target Servers **AdminServer** and **ManagedServer** and click **Finish.** The following window is displayed.



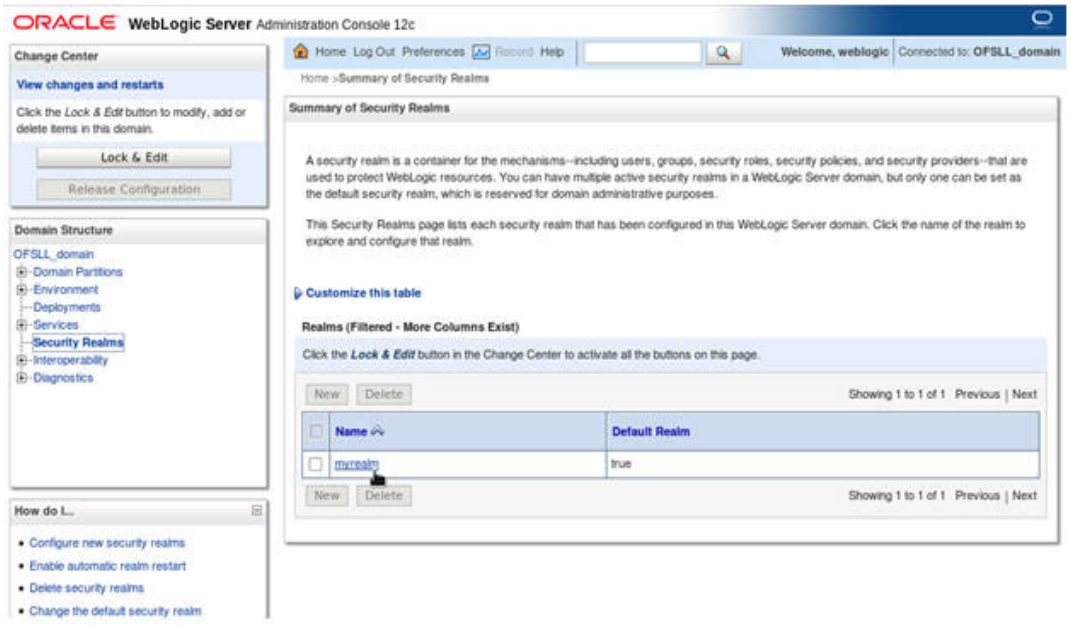
16. Click **Activate Changes** on the left panel.

Update the following parameters in JDBC data source connection pool:

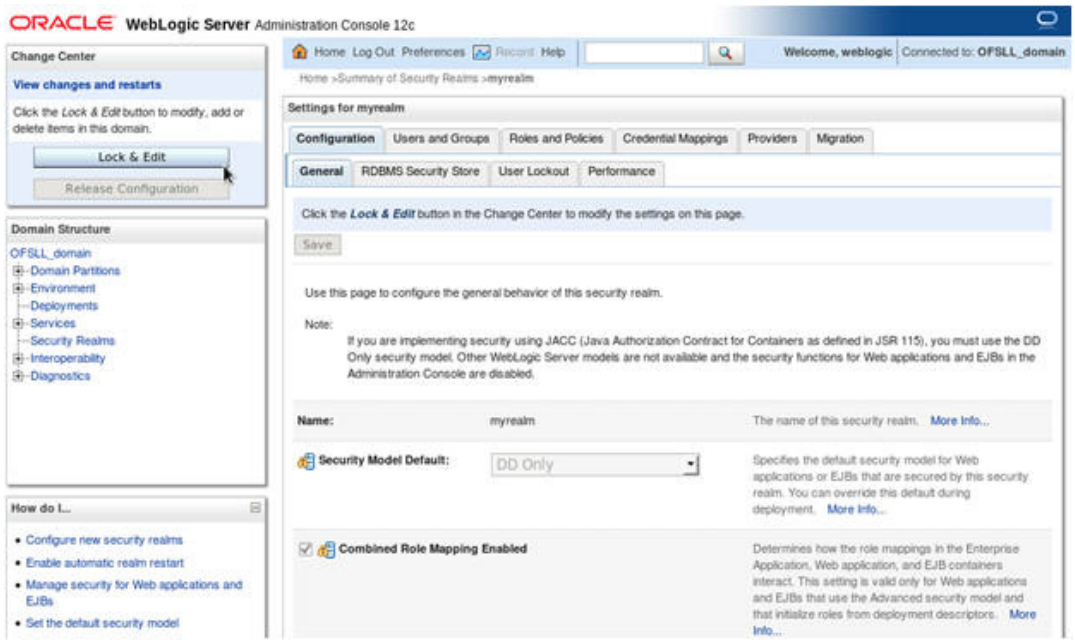
1. Select **Services→Data Sources→select the OFSLL data source→Connection Pool**.
2. Initial capacity and Maximum capacity is defaulted to 15, if the number of concurrent users are more this needs to be increased.
3. Click **Advanced** button and update the following:
   - Inactive Connection Timeout=900
   - Uncheck the "Wrap Data Types" parameter for better performance.
4. Click **Save**.

3.5 Creating SQL Authentication Provider

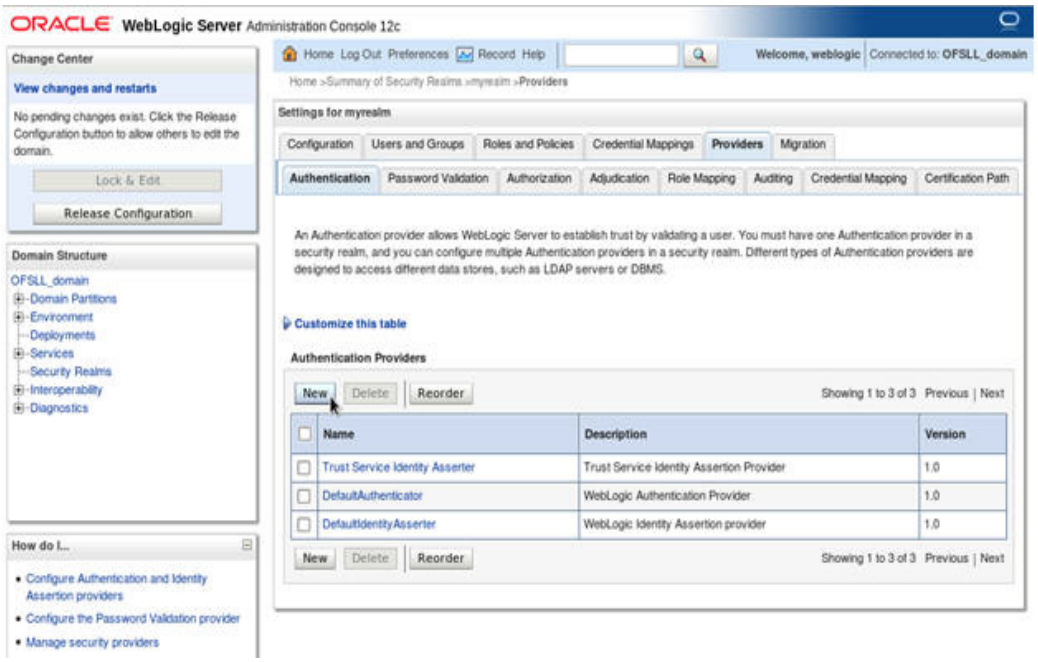
1. Login to WebLogic server administration console and click Security Realms in left panel. The following window is displayed.



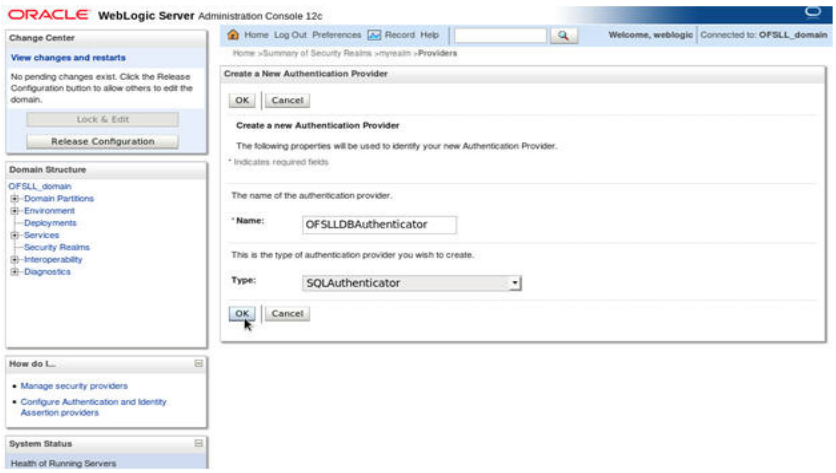
2. Click **myrealm** onright panel. The following window is displayed.



3. Click on Providers tab. The following window is displayed.



4. Click **Lock & Edit** to unlock the screen and click **New** button in Authentication Providers sub tab. The following window is displayed.

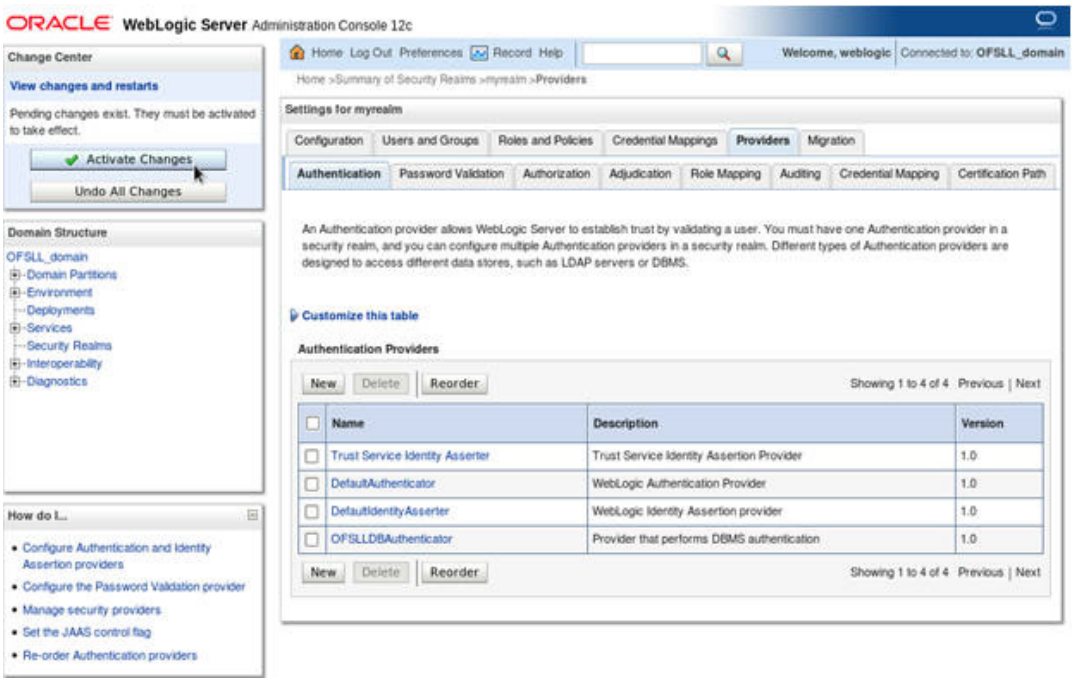


5. Create Authentication provider with following values.

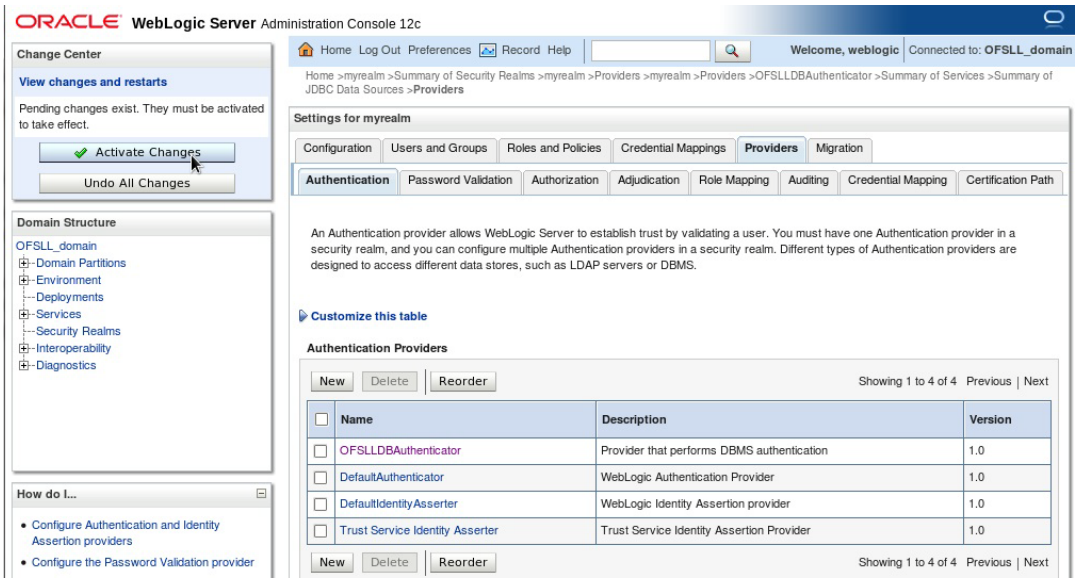
Name: **OFSLLDBAuthenticator**

Type: **SQLAuthenticator**

6. Click OK button. The following window is displayed.



7. Click on 'Activate Changes'. The following window is displayed.

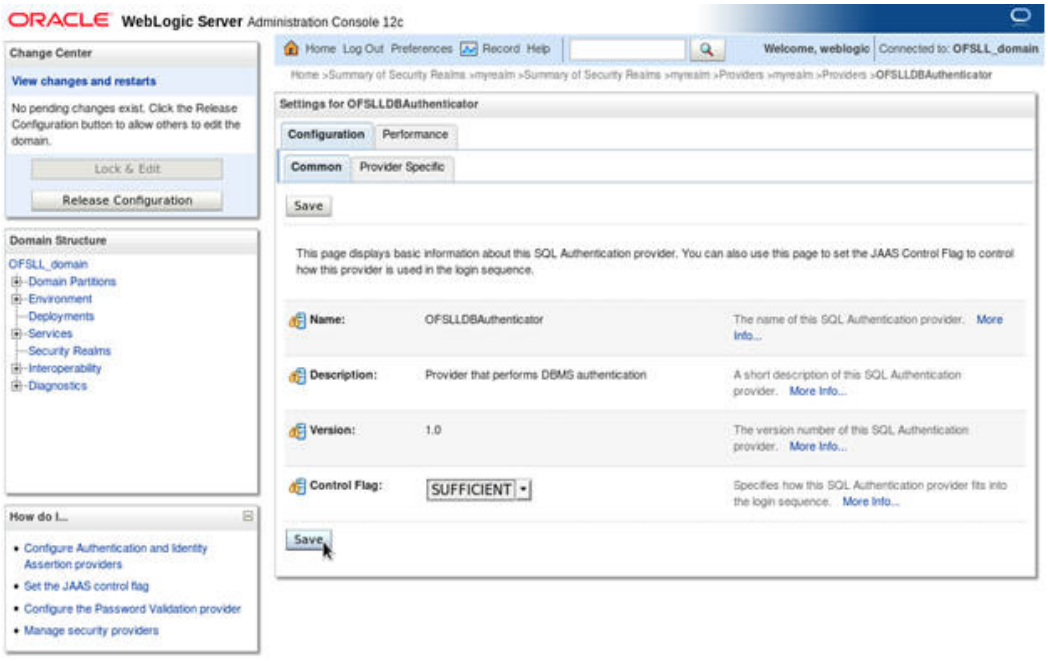


Authentication order should be maintained as mentioned in the above screen.

8. **OFSLLDBAuthenticator** will be displayed as above.

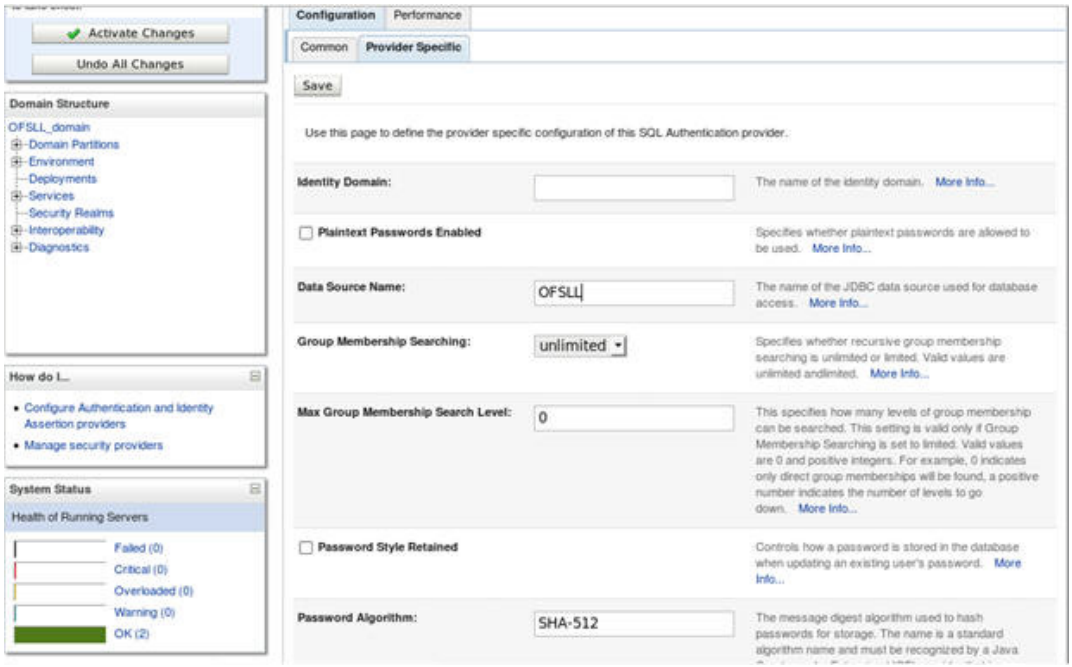
9. Click on **OFSLLDBAuthenticator**.

10. The following window is displayed.



11. Select SUFFICIENT as the **Control Flag** and click Save.

12. Click Provider Specific sub tab under Configuration tab. The following window is displayed.



13. Provide the following values in corresponding fields.

Data Source Name: **OFSLL**

Password Style Retained: **Uncheck**

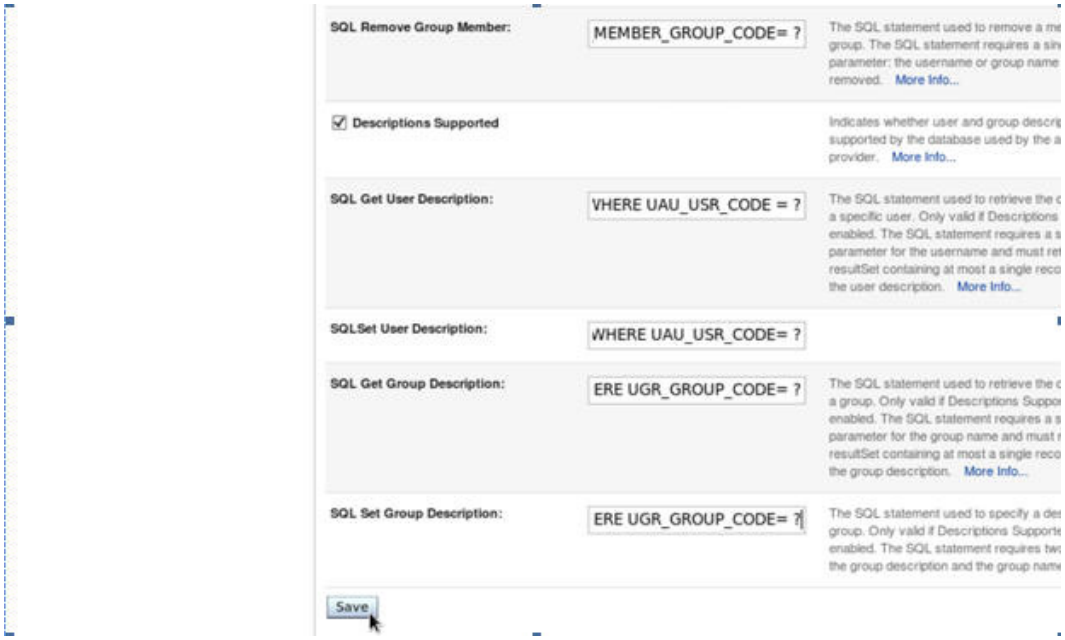
Password Algorithm: **SHA-512**

Password Style: **SALTEDHASHED**

Provide the SQL Queries from the column **Corresponding SQL Queries as per OFSLL Tables** as given below.

Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL Get Users Password:	SELECT U_PASSWORD FROM USERS WHERE U_NAME = ?	SELECT UAU_USR_PASSWORD FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQL Set User Password:	UPDATE USERS SET U_PASSWORD = ? WHERE U_NAME = ?	UPDATE USER_AUTHORISATIONS SET UAU_USR_PASSWORD = ? WHERE UAU_USR_CODE = ?
SQL User Exists:	SELECT U_NAME FROM USERS WHERE U_NAME = ?	SELECT UAU_USR_CODE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQL List Users:	SELECT U_NAME FROM USERS WHERE U_NAME LIKE ?	SELECT UAU_USR_CODE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE LIKE ?
SQL Create User:	INSERT INTO USERS VALUES (? , ? , ?)	INSERT INTO USER_AUTHORISATIONS(UAU_USR_CODE, UAU_USR_PASSWORD,UAU_DESC) VALUES(?,?,?)
SQL Remove User:	DELETE FROM USERS WHERE U_NAME = ?	DELETE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE= ?
SQL List Groups:	SELECT G_NAME FROM GROUPS WHERE G_NAME LIKE ?	SELECT UGR_GROUP_CODE FROM USER_GROUPS WHERE UGR_GROUP_CODE LIKE ?
SQL Group Exists:	SELECT G_NAME FROM GROUPS WHERE G_NAME = ?	SELECT UGR_GROUP_CODE FROM USER_GROUPS WHERE UGR_GROUP_CODE = ?
SQL Create Group:	INSERT INTO GROUPS VALUES (? , ?)	INSERT INTO USER_GROUPS(UGR_GROUP_CODE,UGR_GROUP_DESC) VALUES(?,?)
SQL Remove Group:	DELETE FROM GROUPS WHERE G_NAME = ?	DELETE FROM USER_GROUPS WHERE UGR_GROUP_CODE = ?
SQL Is Member:	SELECT G_MEMBER FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER = ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE = ?
SQL List Member Groups:	SELECT G_NAME FROM GROUPMEMBERS WHERE G_MEMBER = ?	SELECT UGM_MEMBER_GROUP_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_USR_CODE= ?

Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL List Group Members:	SELECT G_MEMBER FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER LIKE ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE LIKE ?
SQL Remove Group Memberships:	DELETE FROM GROUPMEMBERS WHERE G_MEMBER = ? OR G_NAME = ?	DELETE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_USR_CODE= ? OR UGM_MEMBER_GROUP_CODE= ?
SQL Add Member To Group:	INSERT INTO GROUPMEMBERS VALUES(?, ?)	INSERT INTO USER_GROUP_MEMBERS (UGM_MEMBER_GROUP_CODE,UGM_MEMBER_USR_CODE) VALUES(?,?)
SQL Remove Member From Group:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER = ?	DELETE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE= ?
SQL Remove Group Member:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ?	DELETE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_CODE= ?
SQL Get User Description:	SELECT U_DESCRIPTION FROM USERS WHERE U_NAME = ?	SELECT UAU_DESC FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQLSet User Description:	UPDATE USERS SET U_DESCRIPTION = ? WHERE U_NAME = ?	UPDATE USER_AUTHORISATIONS SET UAU_DESC= ? WHERE UAU_USR_CODE= ?
SQL Get Group Description:	SELECT G_DESCRIPTION FROM GROUPS WHERE G_NAME = ?	SELECT UGR_GROUP_DESC FROM USER_GROUPS WHERE UGR_GROUP_CODE= ?
SQL Set Group Description:	UPDATE GROUPS SET G_DESCRIPTION = ? WHERE G_NAME = ?	UPDATE USER_GROUPS SET UGR_GROUP_DESC= ? WHERE UGR_GROUP_CODE= ?
Provider Name	OFSLLDBAuthenticator	



14. Click Save.

Note

Application server needs to be restarted for these changes to take effect.

3.6 Creating User Groups and Users

3.6.1 Creating Users

Create an OFSLL application super user to login to the application.

A script is provided in the distribution media in the dba_utils folder to create an user.

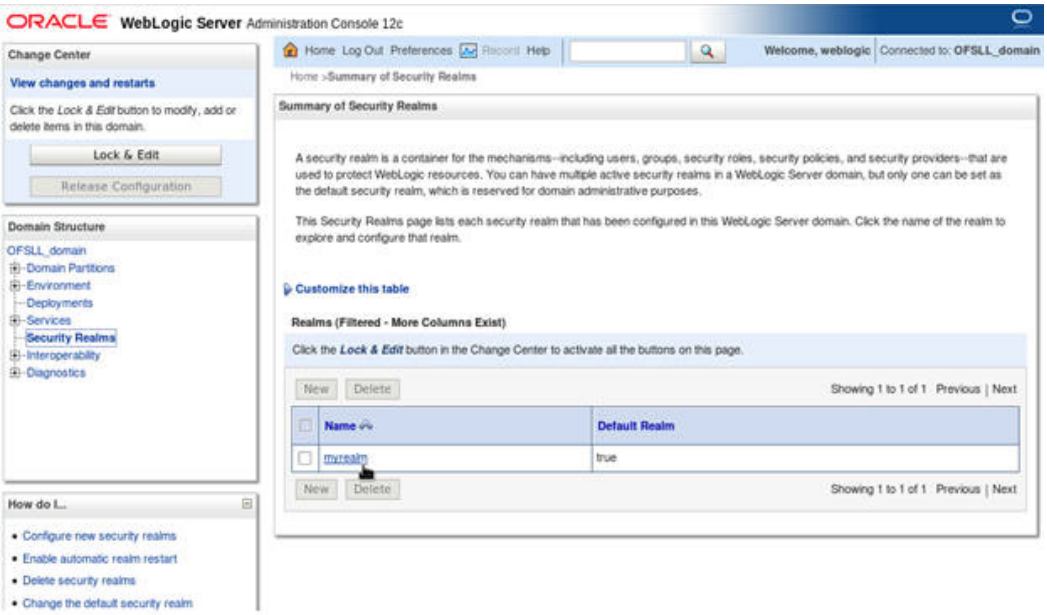
Note

By default there are no users created to login to OFSLL application.

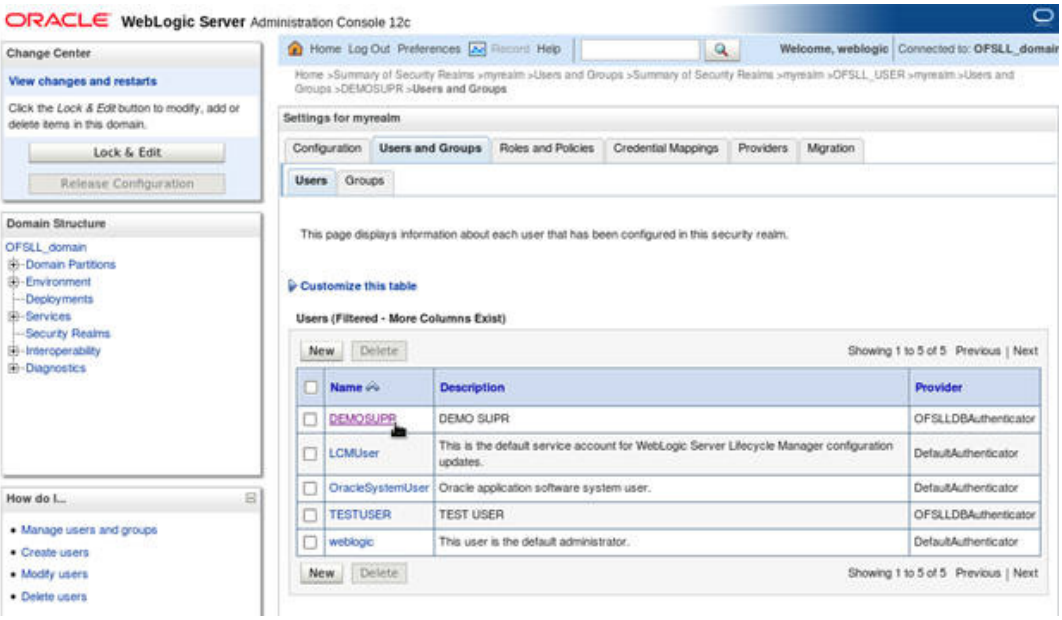
Run the script "crt_app_user.sql script" as a OFSLL application owner user.

```
SQL*Plus: Release 12.1.0.2.0 Production on Thu Feb 4 12:47:05 2016

Copyright (c) 1982, 2014, Oracle.  All rights reserved.

Enter user-name: OFSLL143TEST1
Enter password:
Last Successful login time: Thu Feb 04 2016 12:02:37 +05:30

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing opt
ions

SQL> @/home/dev/Desktop/crt_app_user.sql;
Enter the name of the OFSLL App user Id you
Want to create user: DEMOSUPR
Enter the First Name for this user: DEMO
Enter the Last Name for this user: SUPR
Enter the Phone Number for this user: 9999777321
Enter the Fax Number for this user: 9999888321

1 row created.


1 row created.


1 row created.

SQL>
```

1. Login into WebLogic server console.
2. Click **Security Realms** on the left panel.
3. Click **myrealm** on the right panel..



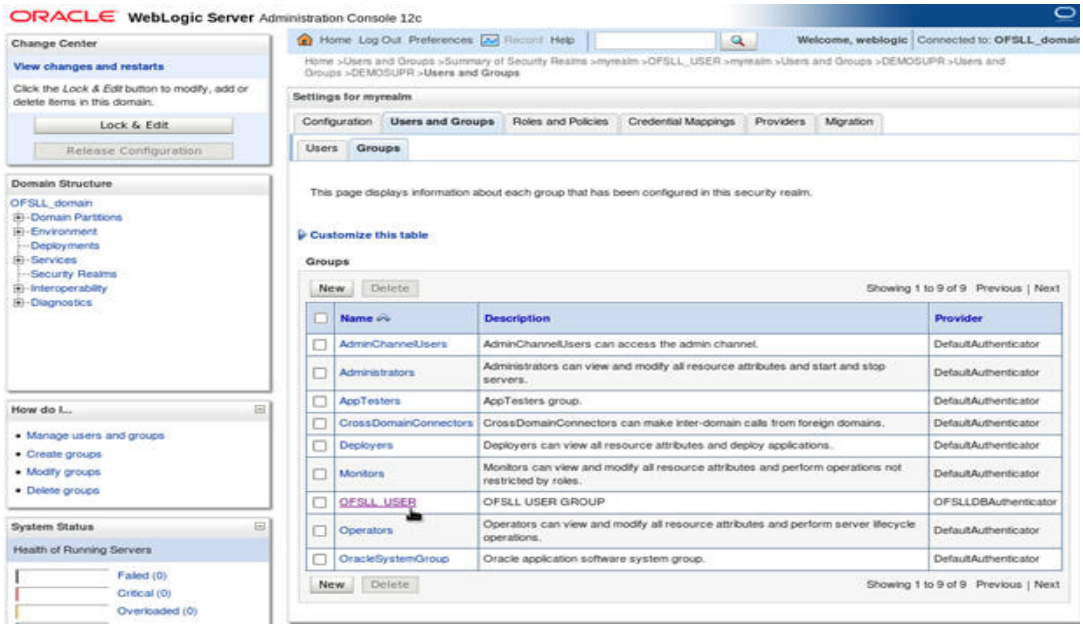
1. Select **Users** tab under **Users and Groups**.
2. If SQLAuthenticator is configured as a Security Provider for the OFSLL application, the Users are automatically created in weblogic when created through an application.



3.6.2 Creating User Groups

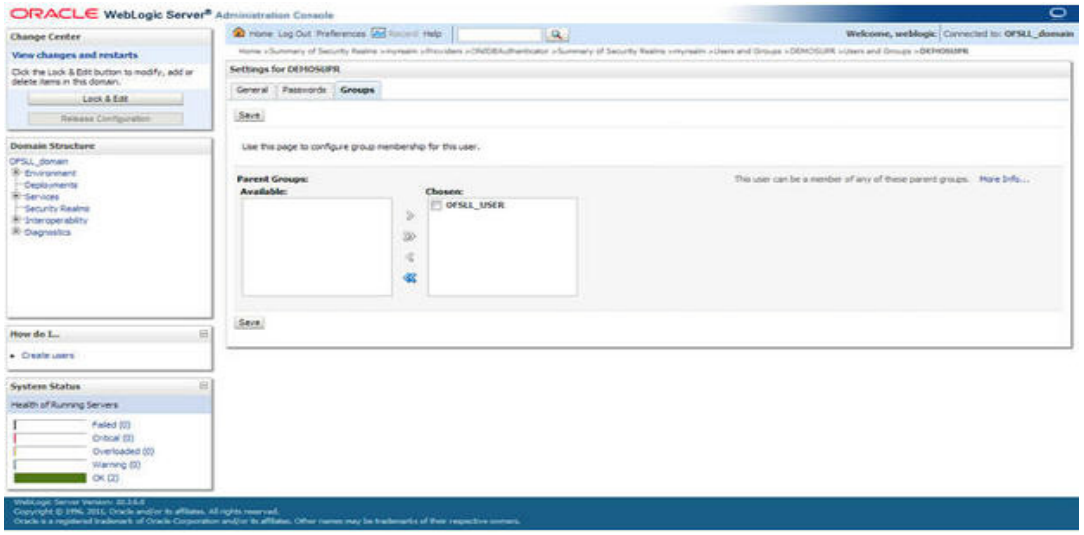
1. Select **Groups** tab under **Users and Groups**.

2. If SQLAuthenticator is configured as a Security Provider for the OFSLL application, the Groups are automatically created in weblogic when created through an application.



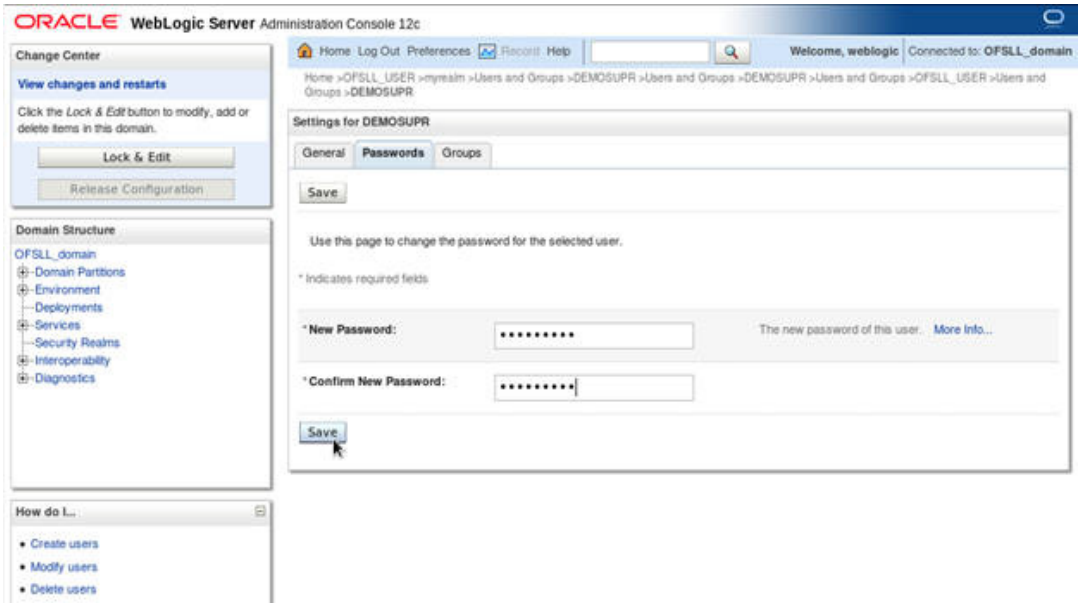
3.6.3 Assigning Users to Groups

The USERS are automatically mapped to default application group - OFSLL_USER.

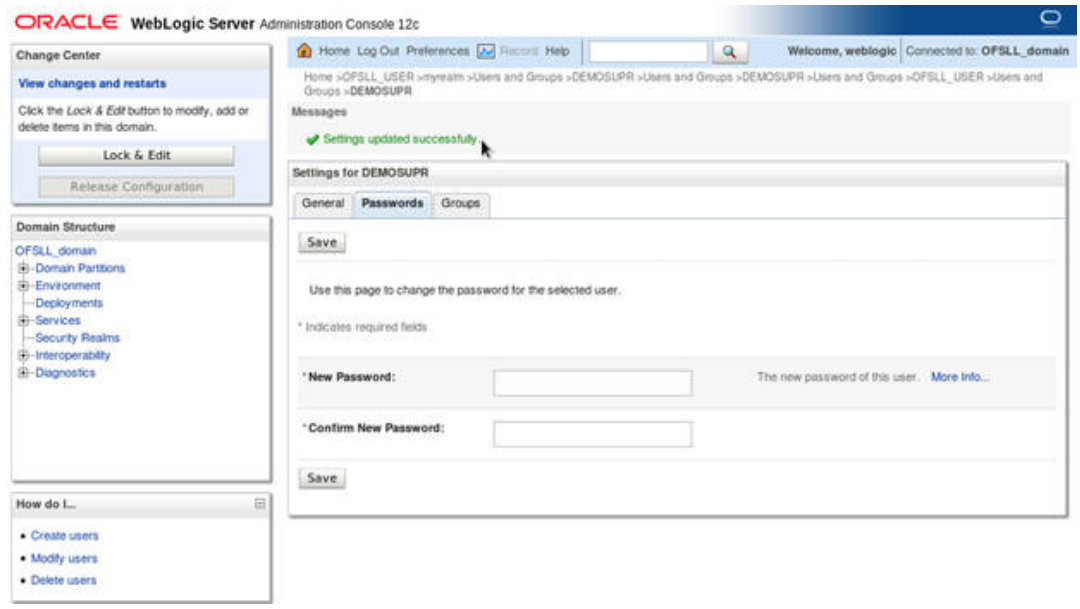


3.6.4 Resetting password via weblogic console

1. Click on **User**. Select **Passwords** tab**.** Enter the new password and confirm password.



2. Click on **Save**.The following window displayed.



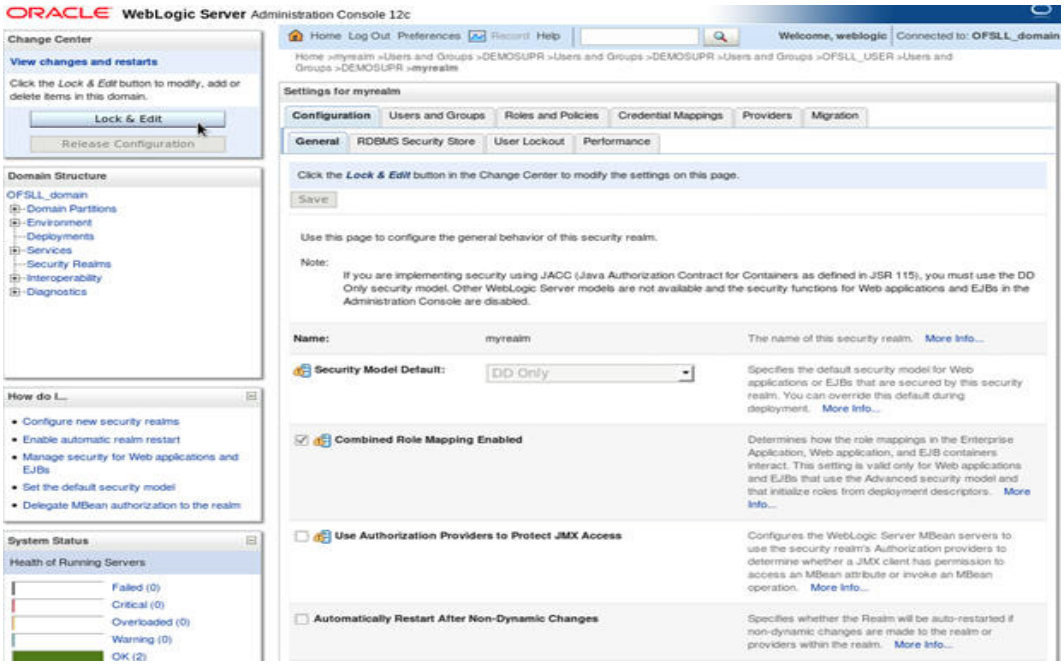
3.7 Implementing JMX Policy for Change Password

1. Login to Oracle WebLogic Server 12c console (http://hostname:port/console)

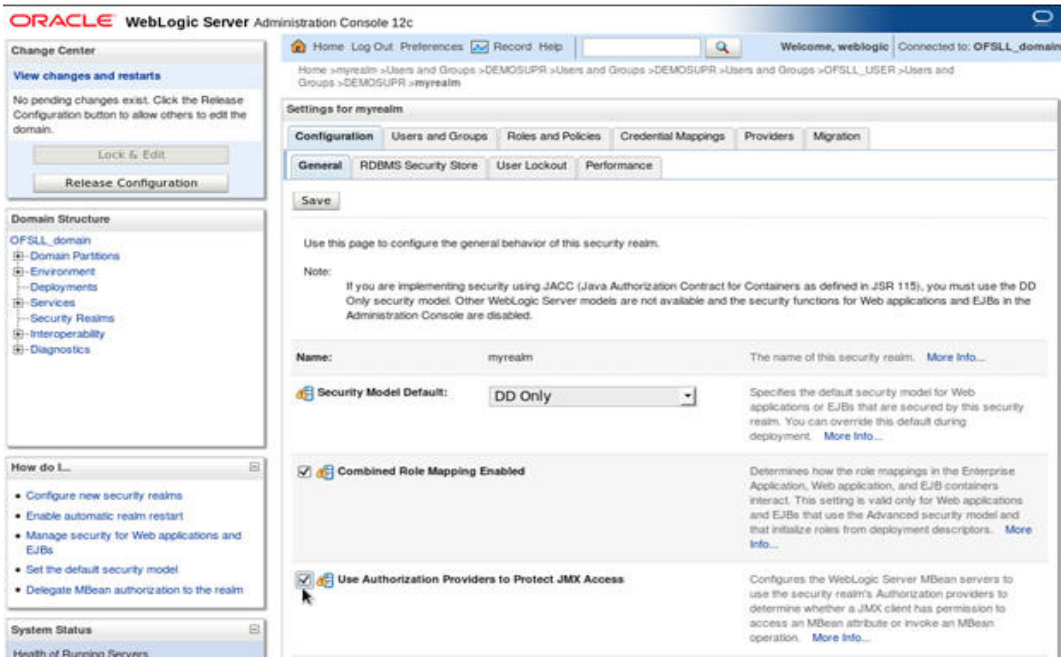
Note

The Change Password feature uses the JMX Policy configured on the domain. Hence, the AdminServer is required to be up and running to enable this.

2. Click **Domain → Security → myrealm → Configuration**



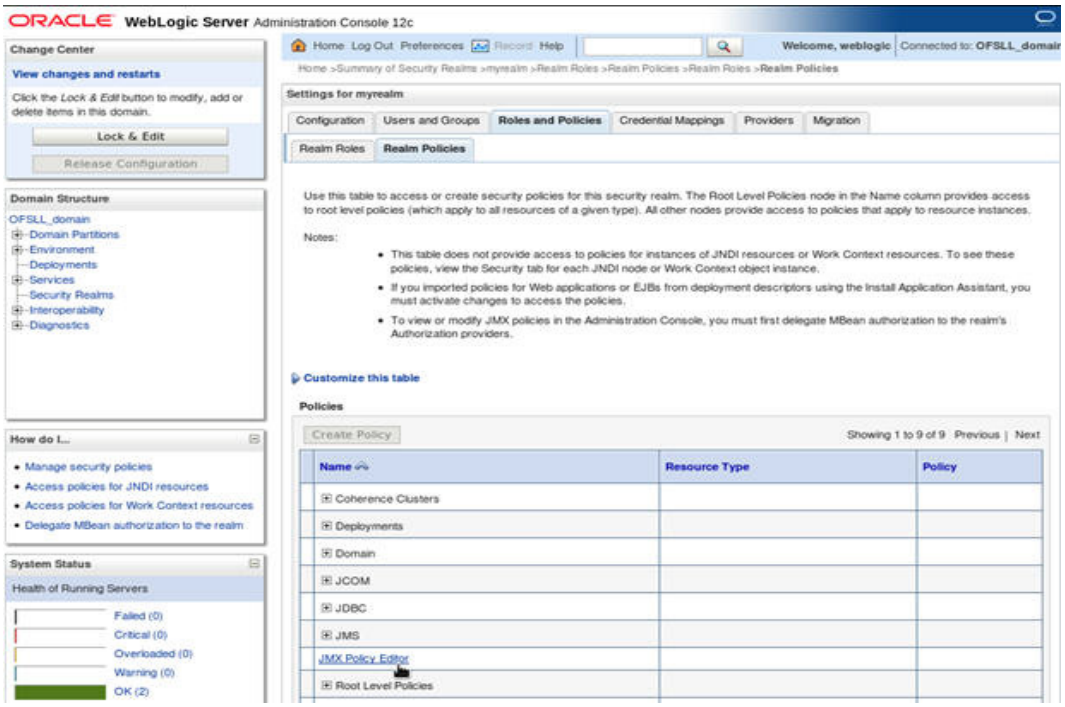
3. To enable JMX policy select the "Use Authorization Providers to Protect JMX Access" check box on the right panel



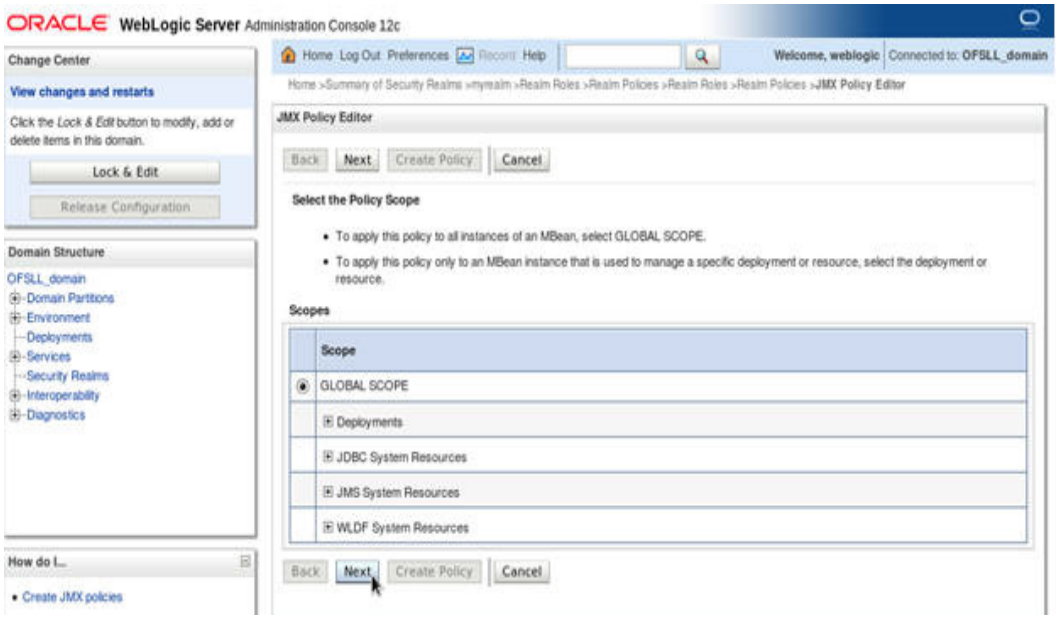
4. Click **Save** and restart the server.
5. Re-login to console.
6. Click **Domain → Security → myrealm → Roles and Policies→Realm Policies**

Note

If server is not restarted, JMX Policy Editor option will not appear



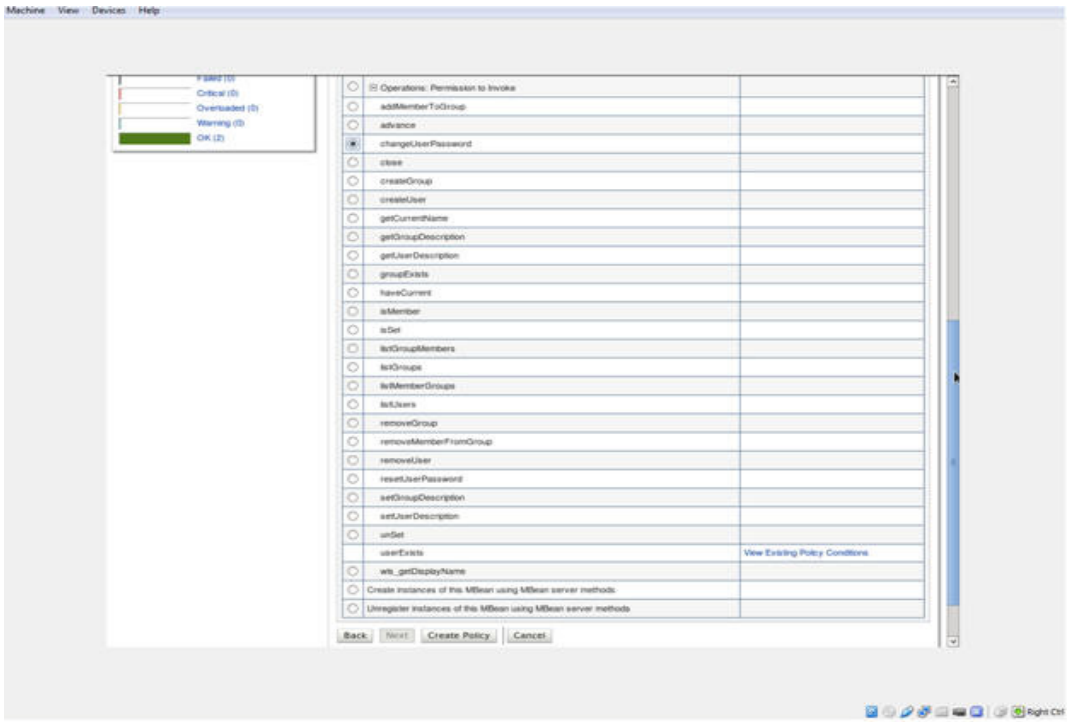
7. Click on JMX Policy Editor to configure



8. Select GLOBAL SCOPE

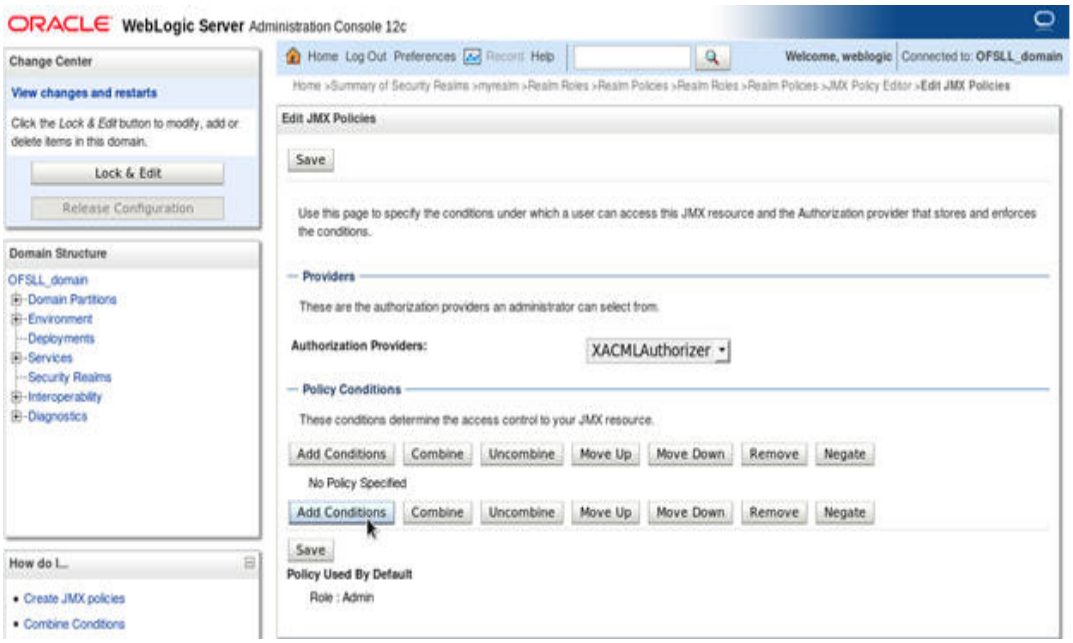
9. Click Next

10. Select weblogic.security.providers.authentication.
11. Select "SQLAuthenticatorMBean". Click **Next**.

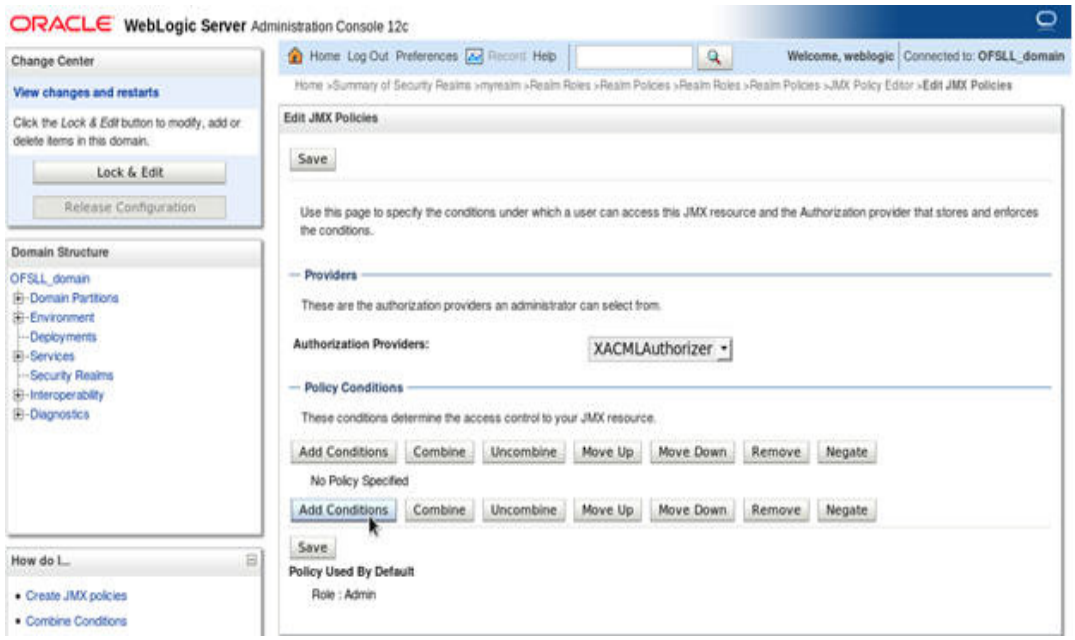


12. Expand "**Operations: Permissions to Invoke**" and select "**ChangePassword**"
13. Click "Create Policy"

14. It opens the below screen for Authorization providers where you can add conditions to setup the policy.

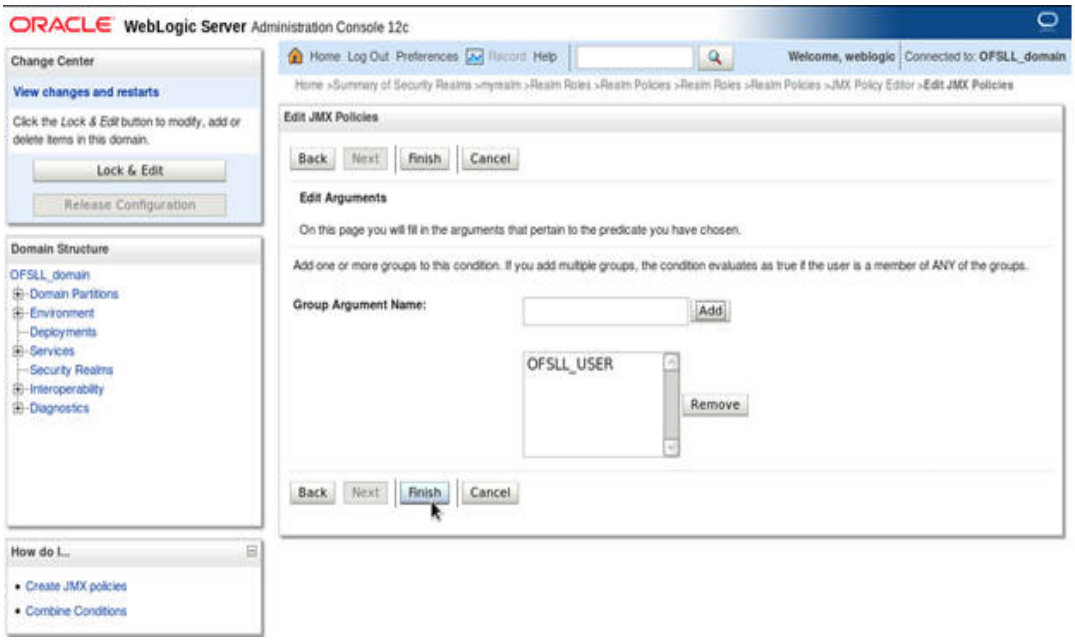


15. Click **Add Condition**. The below screen will be displayed.

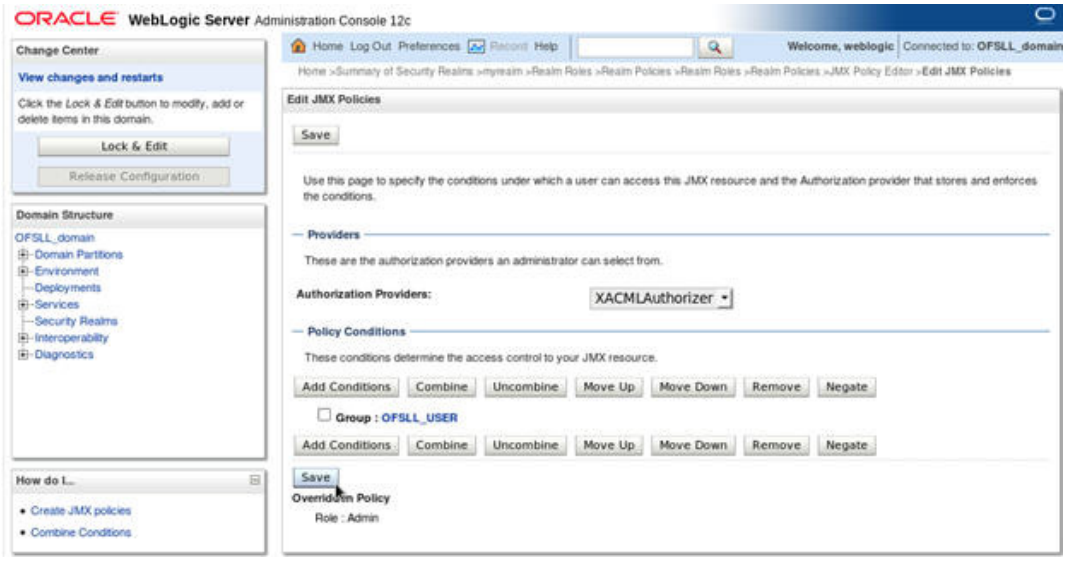


16. For **Predicate List**, select **Group** for configuration.

17. Click Next.



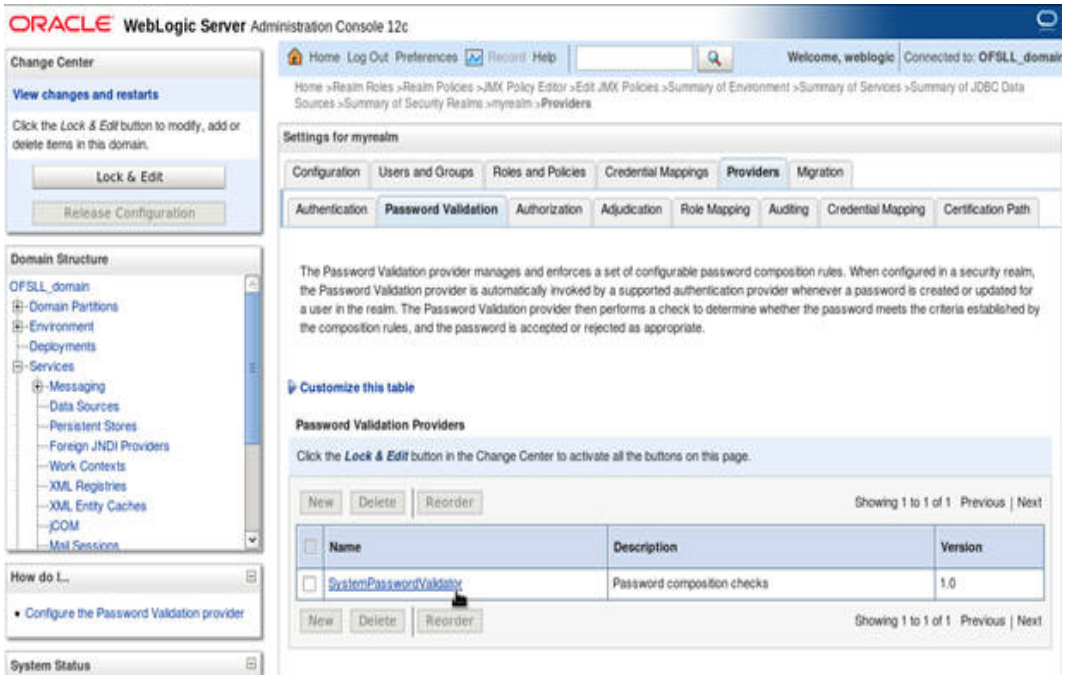
18. Select user roles for application.
19. Click Finish. Click on Save to complete the configuration. The following window will be displayed.



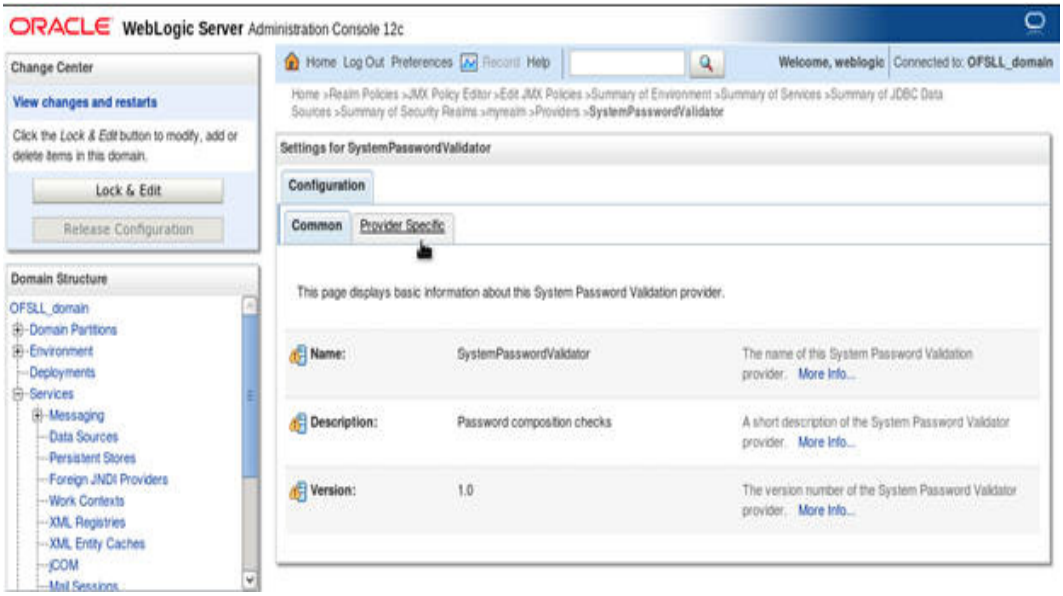
4. Configuring Policies

4.1 Configuring Password Policy for SQL Authenticator

1. Login to the WebLogic server administration console with user login credentials.
2. Browse to **Security Realms →myrealm→ Providers** as shown below. The following window is displayed



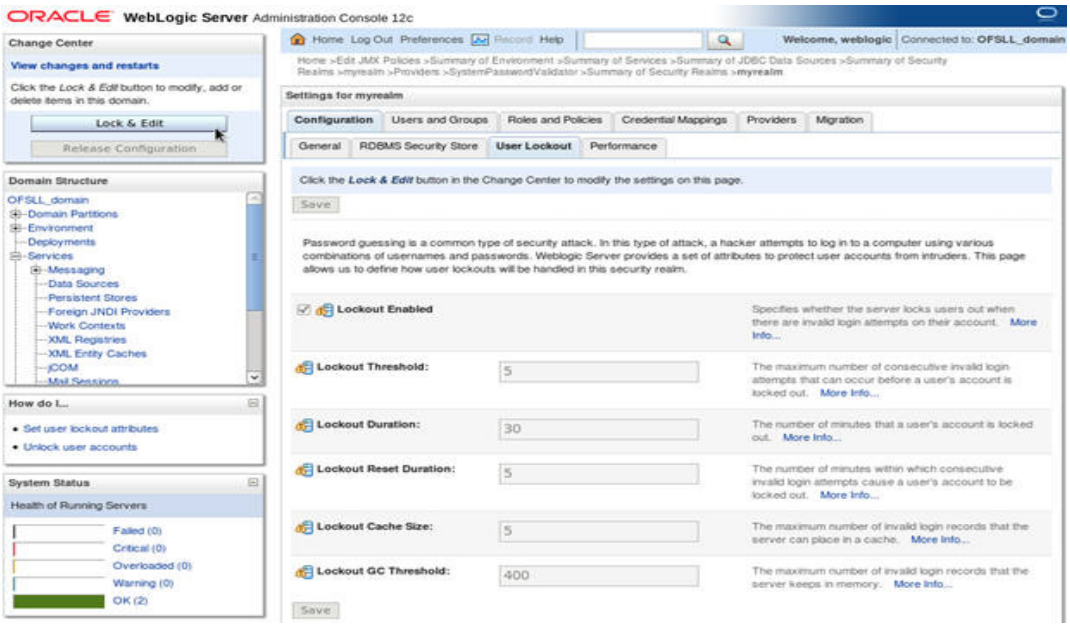
3. Click **SystemPasswordValidator** link. The following window is displayed



4. Click **Provider Specific** Tab.
5. Configure the password policy as per the requirement. The following window is displayed. Click Save.

4.2 Configuring User Lockout Policy

1. To Change User lockout policy, browse to **Security Realms** → **myrealm**→ **Configuration** Tab → **User Lockout** Tab. The following window is displayed

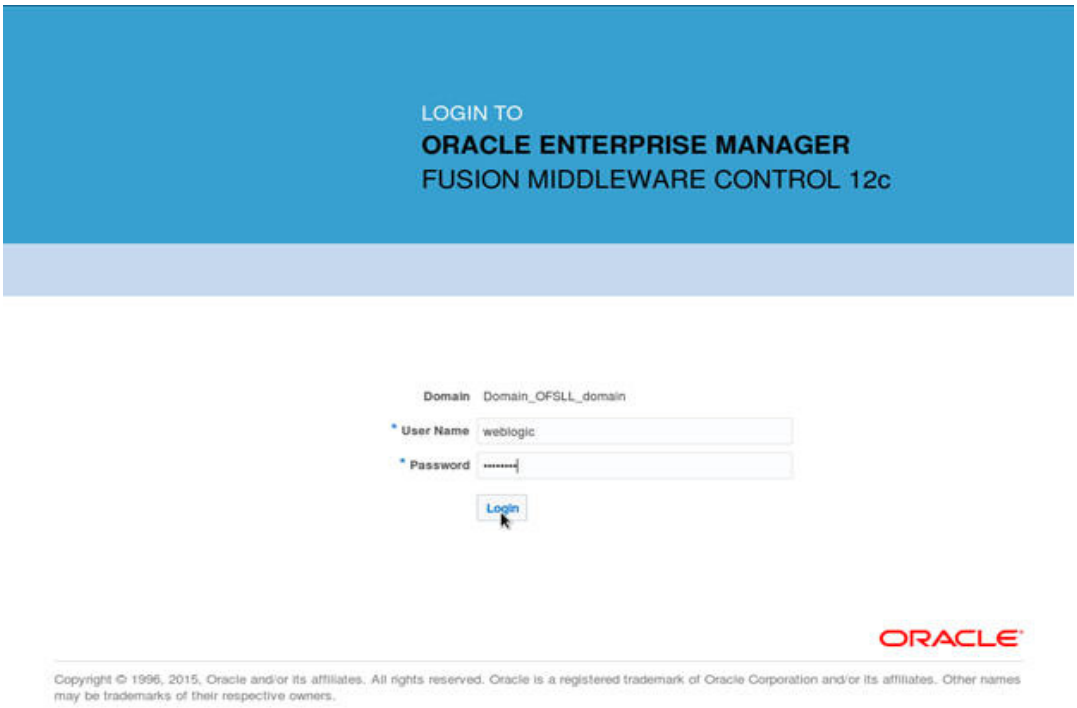


2. Configure the User Lockout details as per the requirement. An example is provided above.

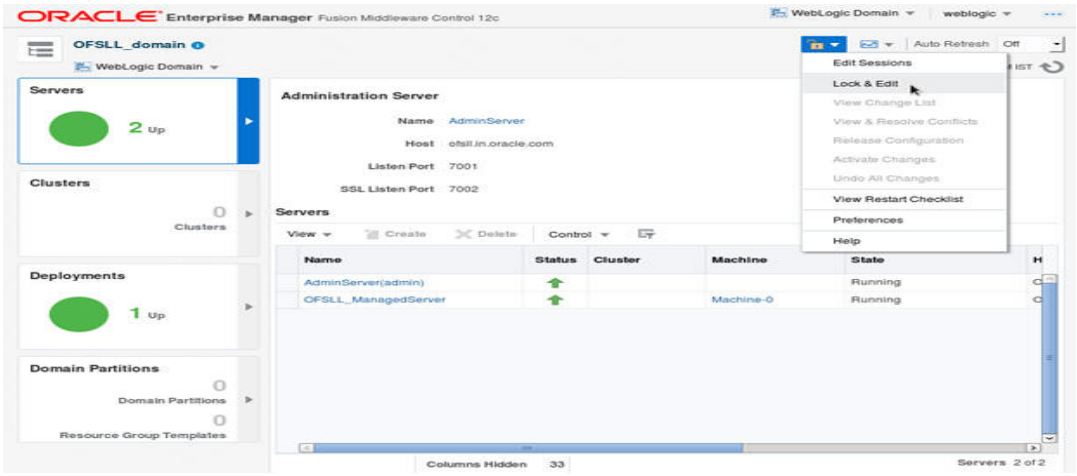
5. Deploying Application

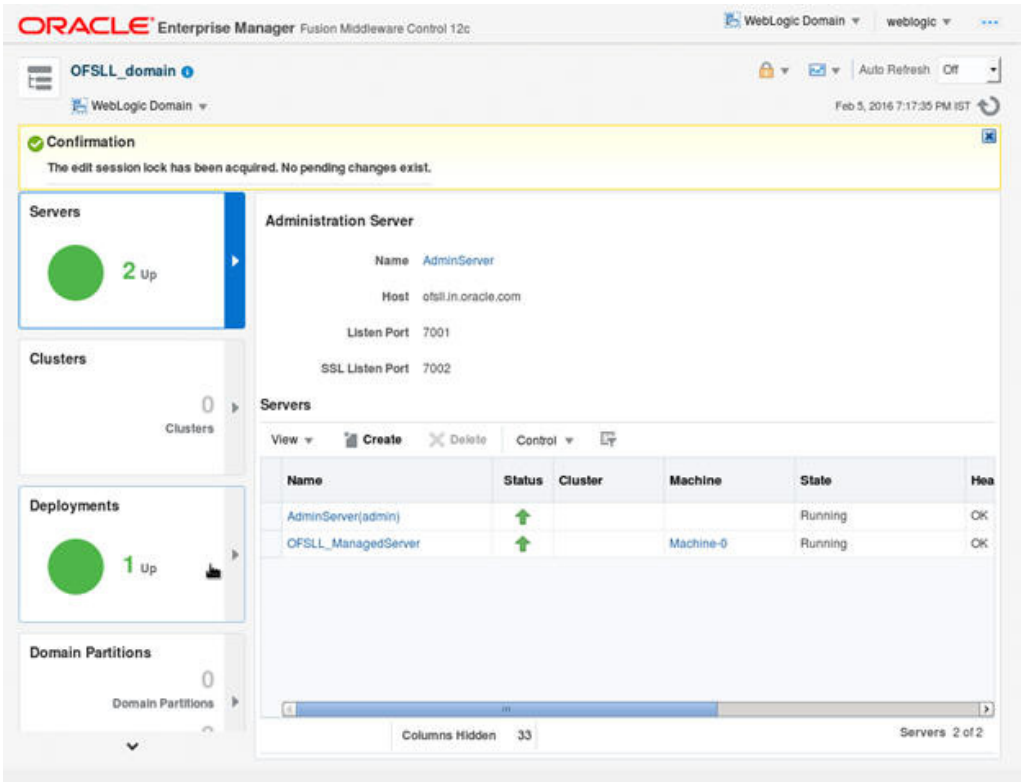
5.1 Deploying Application

1. Login to the Oracle Enterprise Manager 12c console . (i.e. http://hostname:port/em)

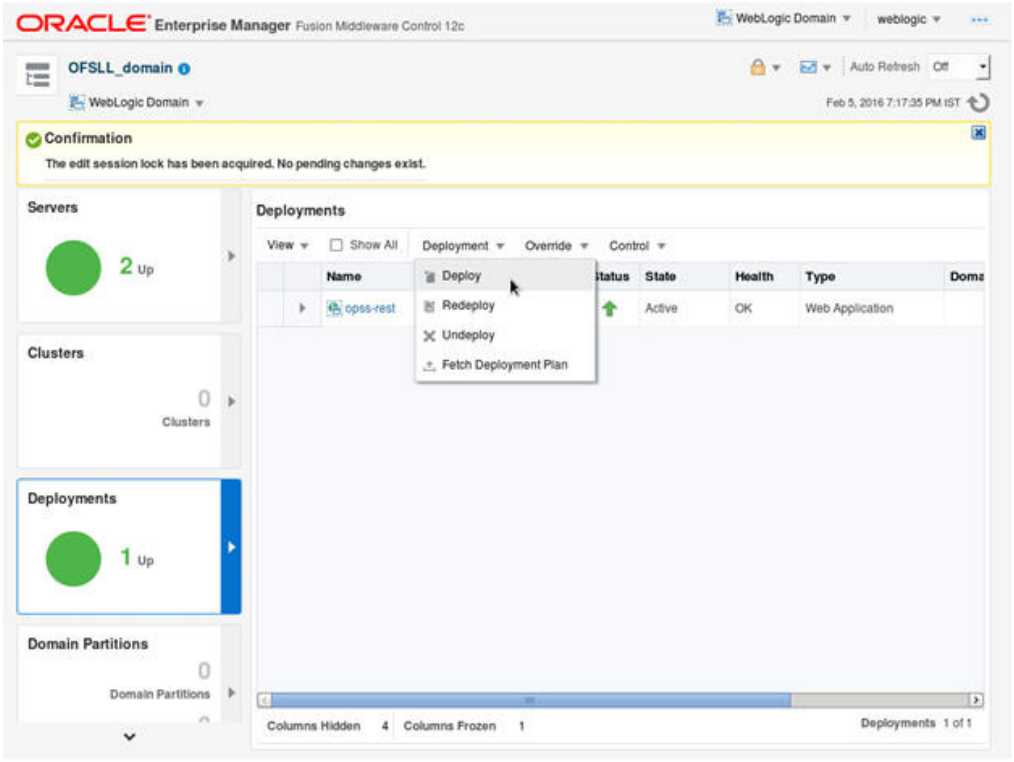


2. Click on Lock and Edit as shown below..

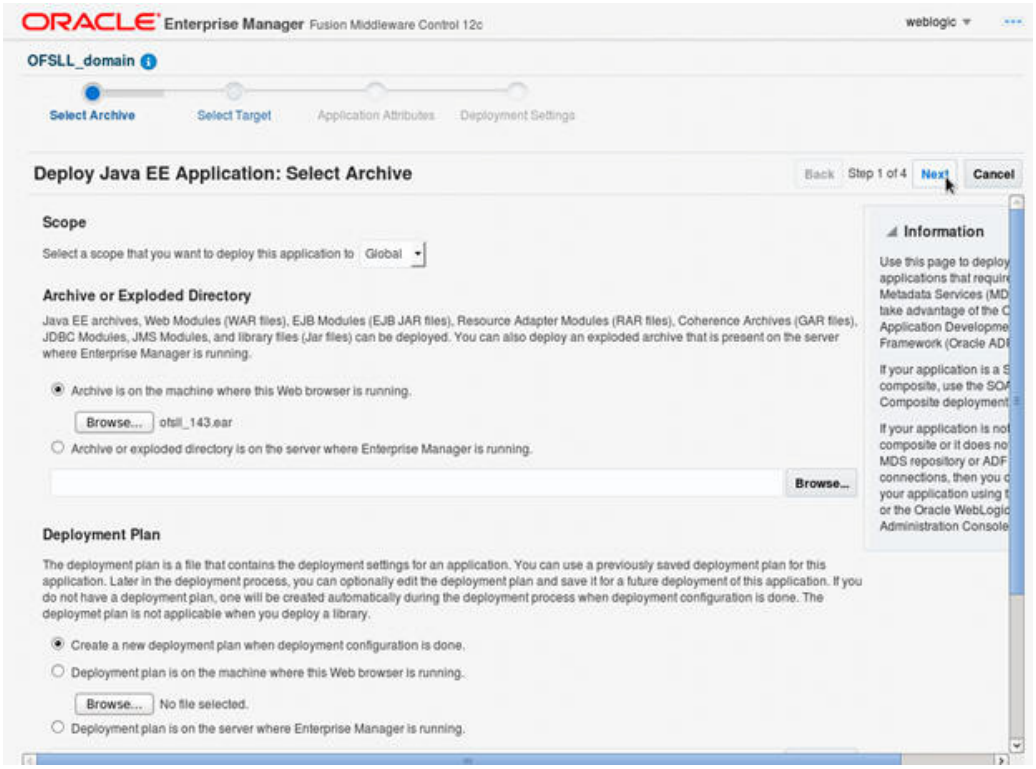




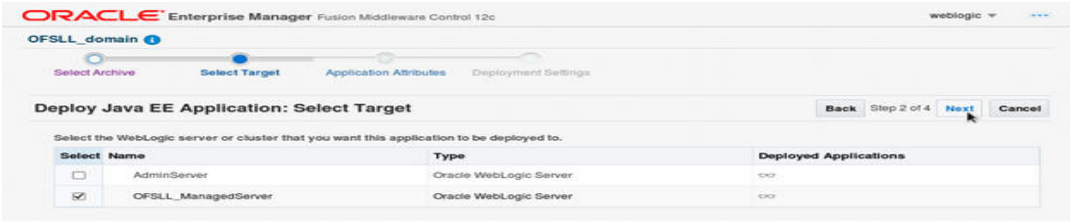
3. Click on Deployments in the left panel. To deploy go to Deployments option in the menu as shown below.



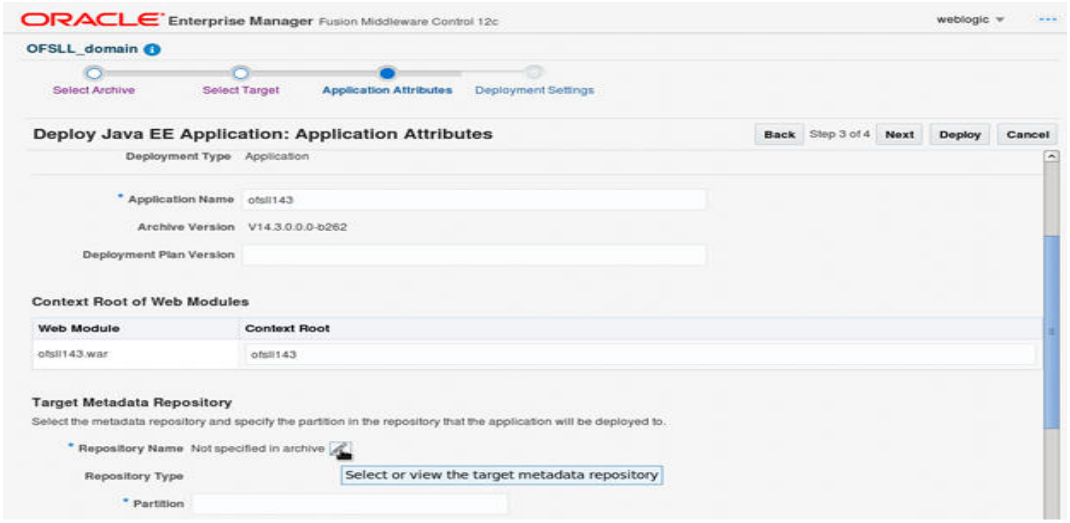
4. Click Choose File button and select OFSLL application archive file i.e. ofsll_143.ear.



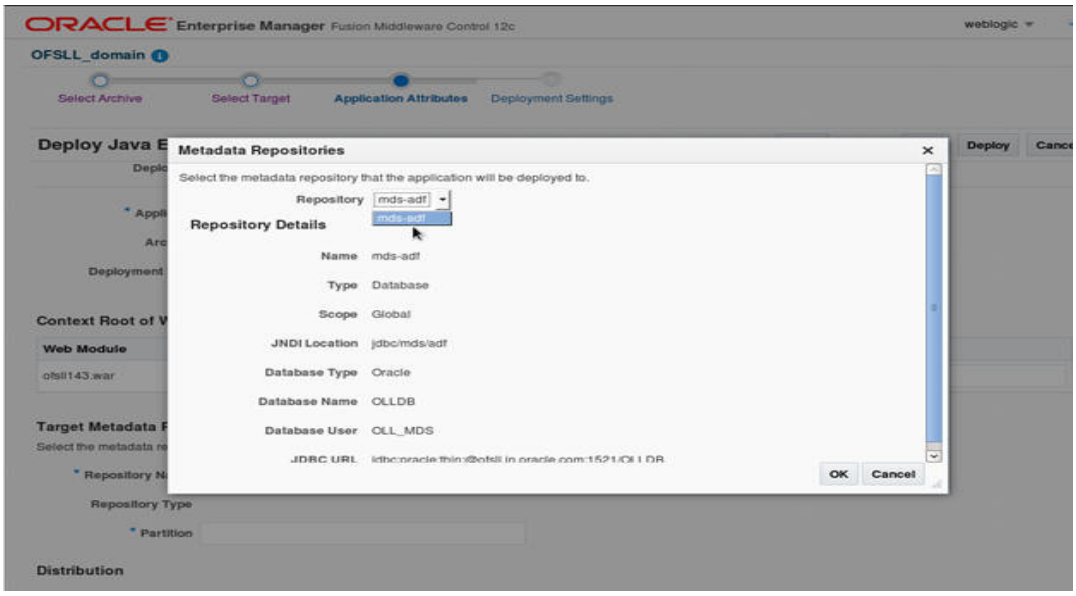
5. Click **Next**. The following window is displayed



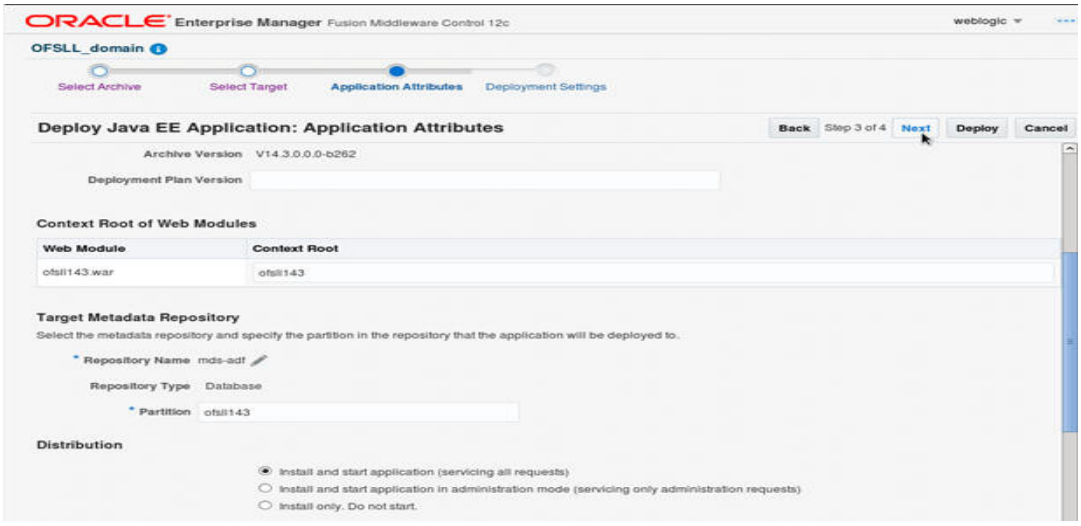
6. Check target server as per the requirement **OFSLL_ManagedServer** and click **Next**.
7. The following window is displayed.



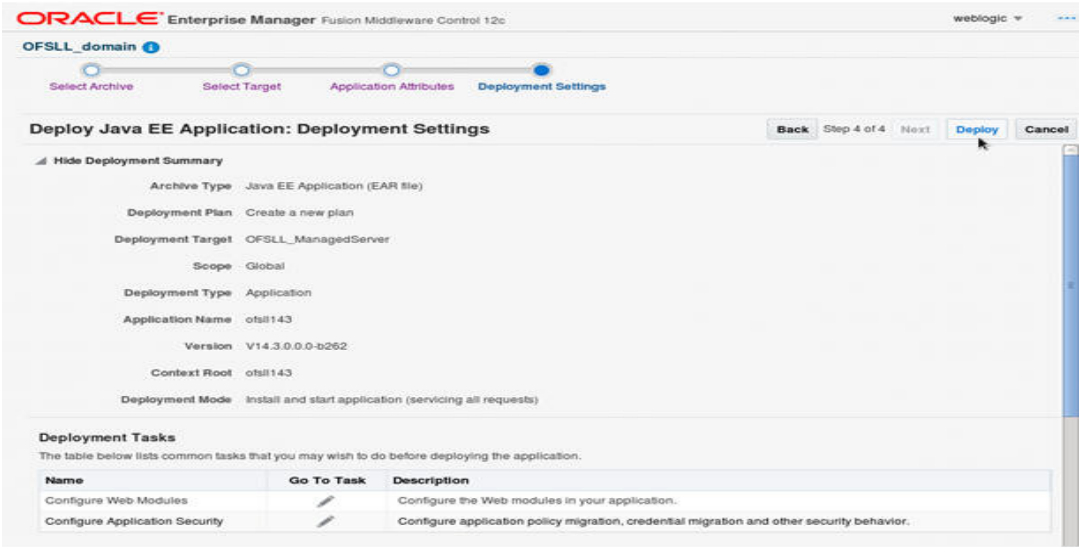
8. Click button to select Repository Name. The following window is displayed.



9. Select Repository as per requirement and click **OK**.



10. Enter Partition name as per the requirement and click **Next**.



11. Click **Deploy**. The following window is displayed

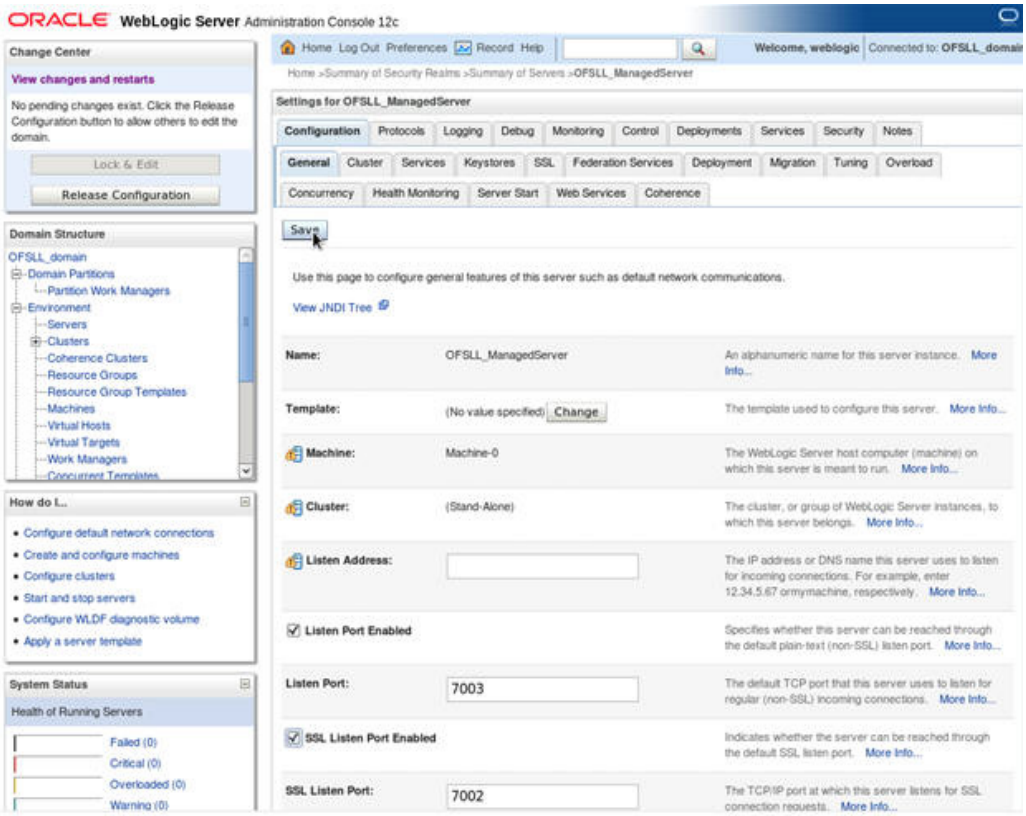
12. Click Close once the message “Deploy operation completed” is displayed.

6. Enabling SSL

The application is accessible only via https protocol; hence, after the deployment of the application, you need to enable SSL.

To enable SSL:

1. Login to console.
2. **$Domain_Home→Servers→Manage Servers→Configuration→General**. The below screen is displayed.



3. Check the ‘SSL Listen Port Enabled’ check box.
4. Specify the port for ‘SSL Listen Port’.

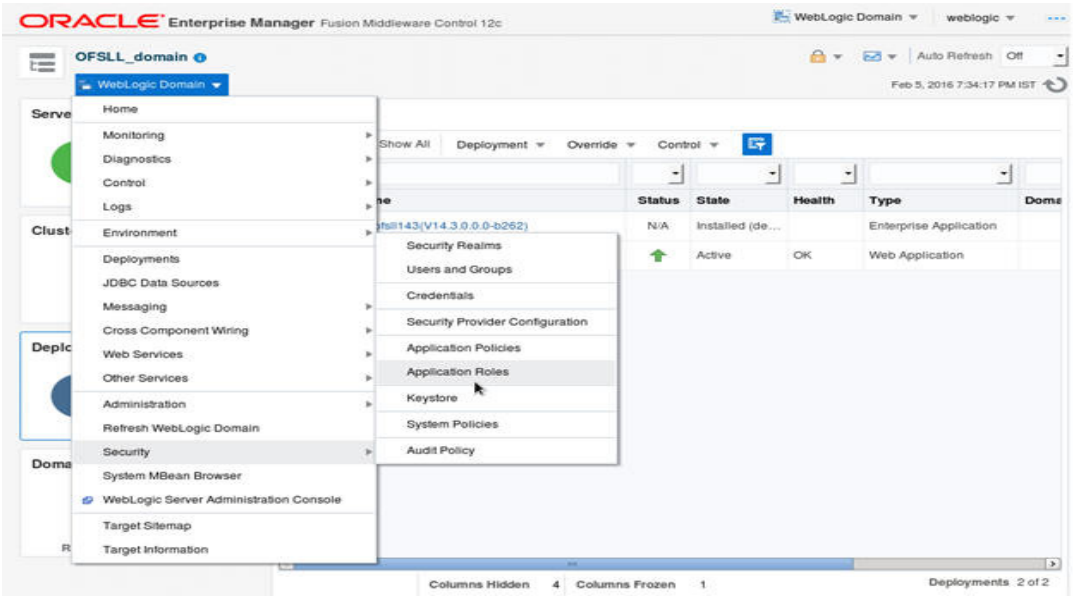
Note

It is recommended to disable http protocol.

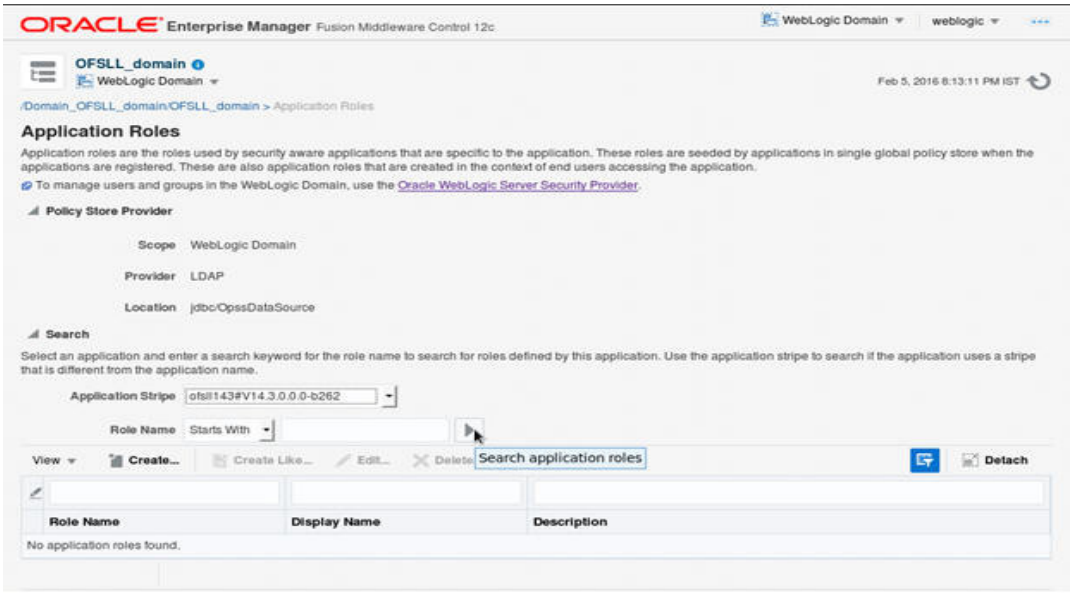
7. Mapping Enterprise Group with Application Role

Follow the below steps to add an user to the group

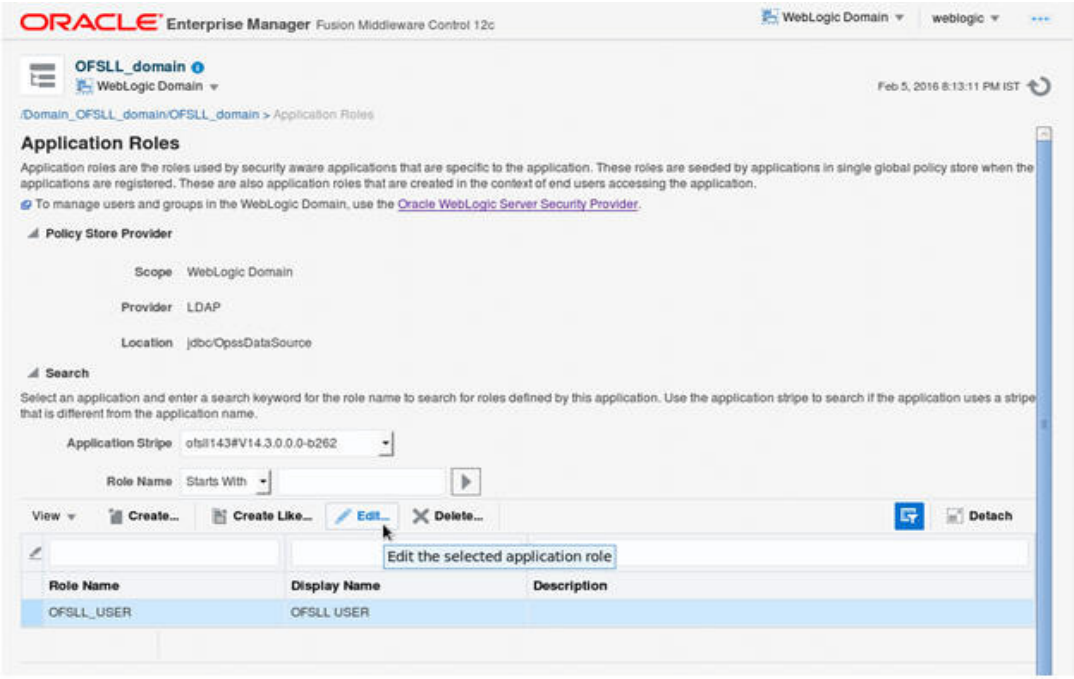
1. Login to Oracle Enterprise Manager 12c console (http://hostname:port/em).
2. Click **WebLogic Domain** → **Security** → **Application Roles** on the right panel.



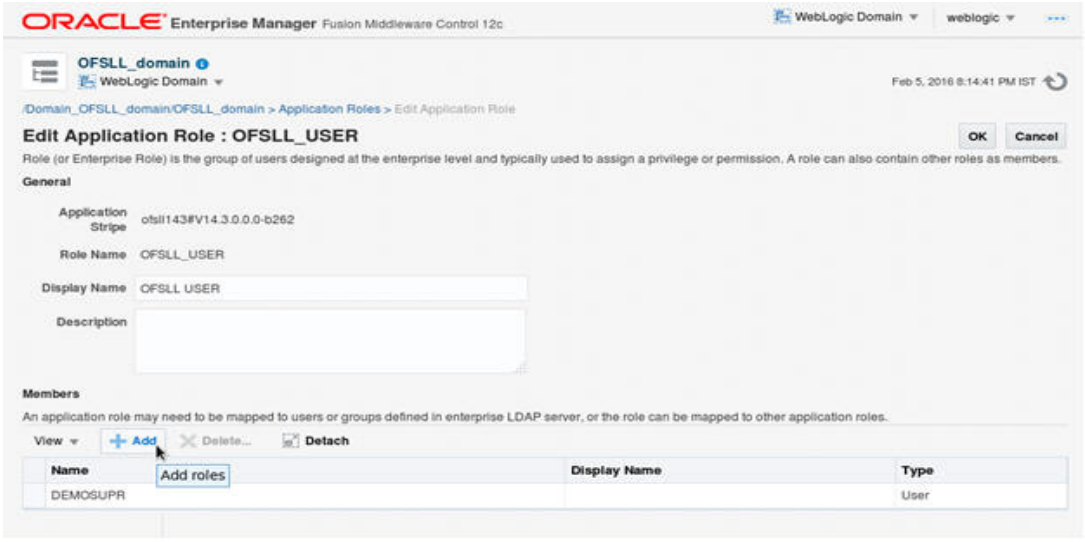
3. Select Application Stripe from the drop-down menu.
4. Click the arrow head button. Details of the existing Roles are displayed below:



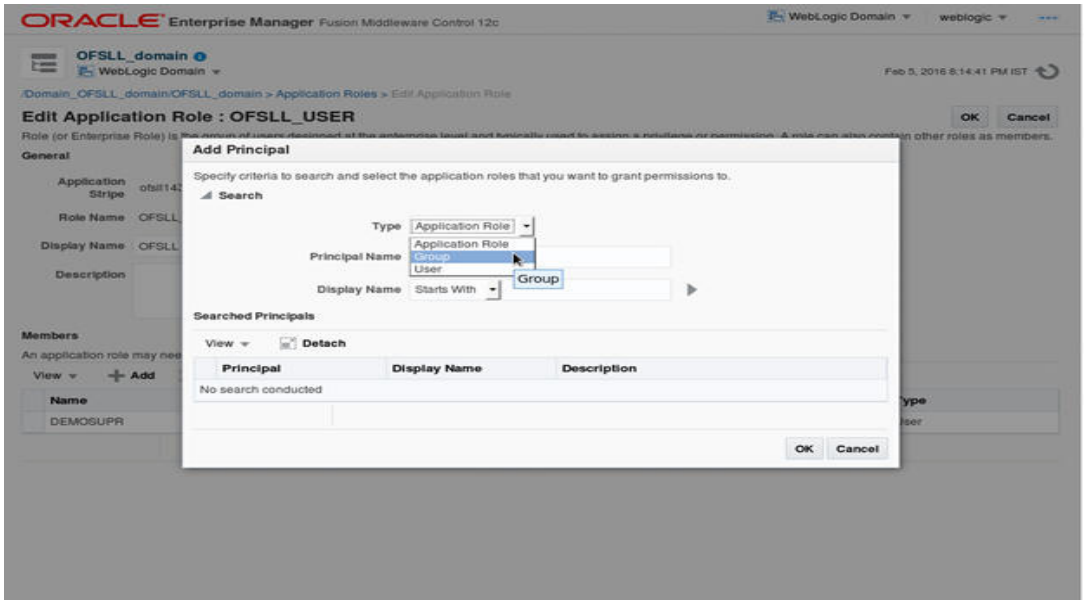
5. Select the **Role Name**. Membership details of the selected Role Name are displayed under **Membership for "role_name"**..

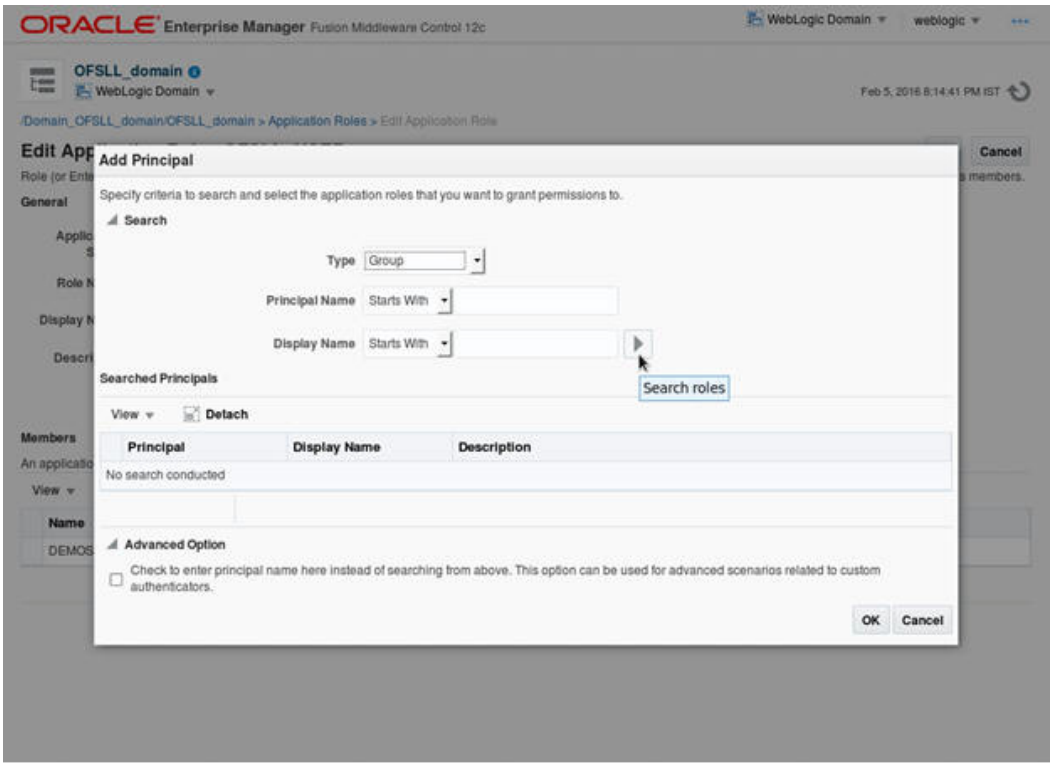


6. Click **Edit**. The following window is displayed.

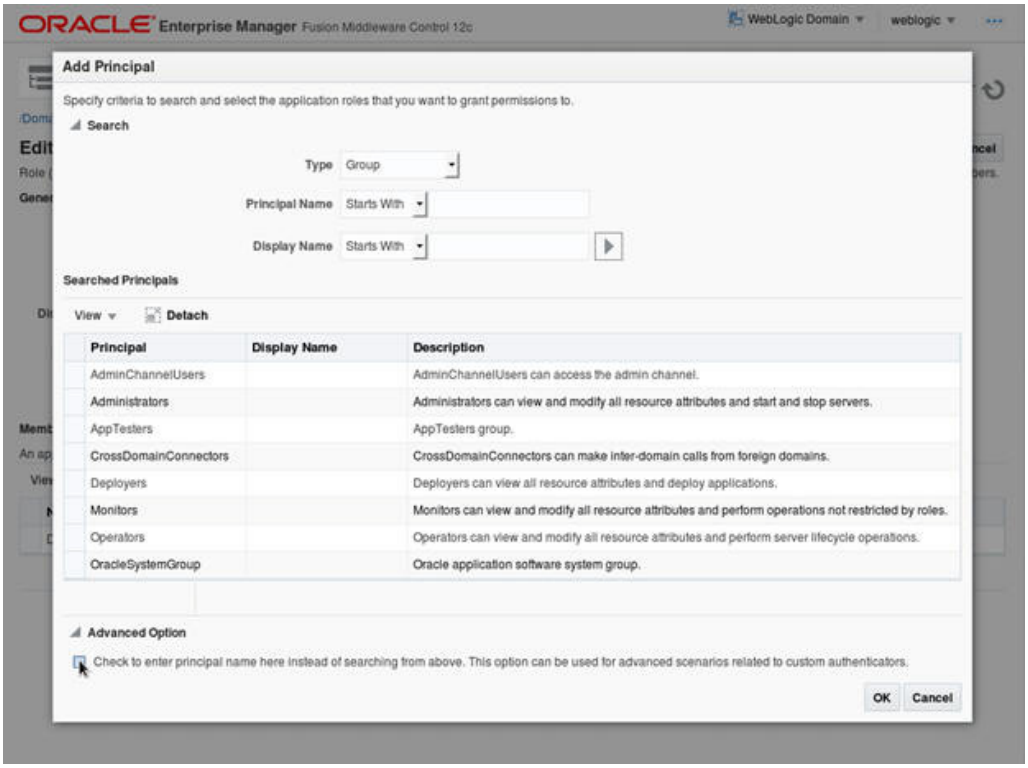


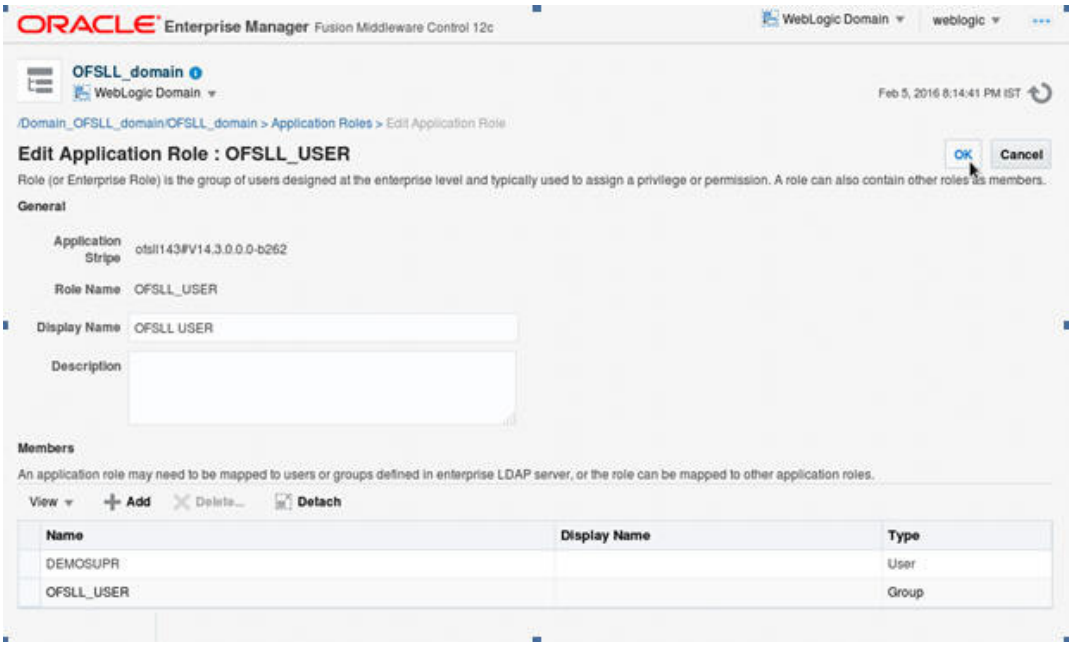
7. Click **Add**. Select type as **Group**. Click on the arrow head button.
8. Follow the given steps to select the Principal "OFSLL_USER" to add and click OK. The following window is displayed.


ORACLE Enterprise Manager Fusion Middleware Control 12c
WebLogic Domain
weblogic
OFSLL_domain
WebLogic Domain
Feb 5, 2016 8:14:41 PM IST
/Domain_OFSLL_domain/OFSLL_domain > Application Roles > Edit Application Role
Edit Application Role : OFSLL_USER
OK
Cancel
General
Application Stripe
Role Name
Display Name
Description
Members
View
Add
Name
DEMOSUPR
Add Principal
Specify criteria to search and select the application roles that you want to grant permissions to.
Search
Type
Application Role
Application Role
Group
User
Principal Name
Display Name
Starts With
Group
Searched Principals
View
Detach
Principal
Display Name
Description
No search conducted
OK
Cancel

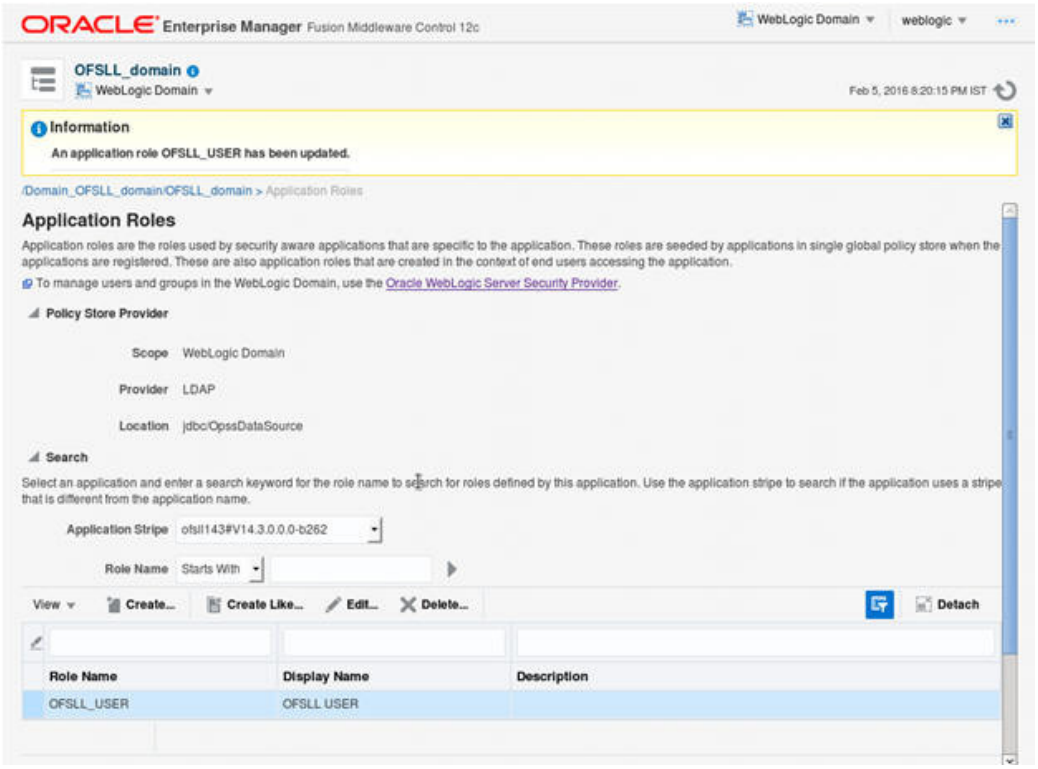

ORACLE Enterprise Manager Fusion Middleware Control 12c
WebLogic Domain
weblogic
OFSLL_domain
WebLogic Domain
Feb 5, 2016 8:14:41 PM IST
/Domain_OFSLL_domain/OFSLL_domain > Application Roles > Edit Application Role
Cancel
Add Principal
Specify criteria to search and select the application roles that you want to grant permissions to.
Search
Type
Group
Principal Name
Starts With
Display Name
Starts With
Search roles
Searched Principals
View
Detach
Principal
Display Name
Description
No search conducted
Advanced Option
Check to enter principal name here instead of searching from above. This option can be used for advanced scenarios related to custom authenticators.
OK
Cancel

9. Check the check box in Advanced options. Enter the name of Group manually.



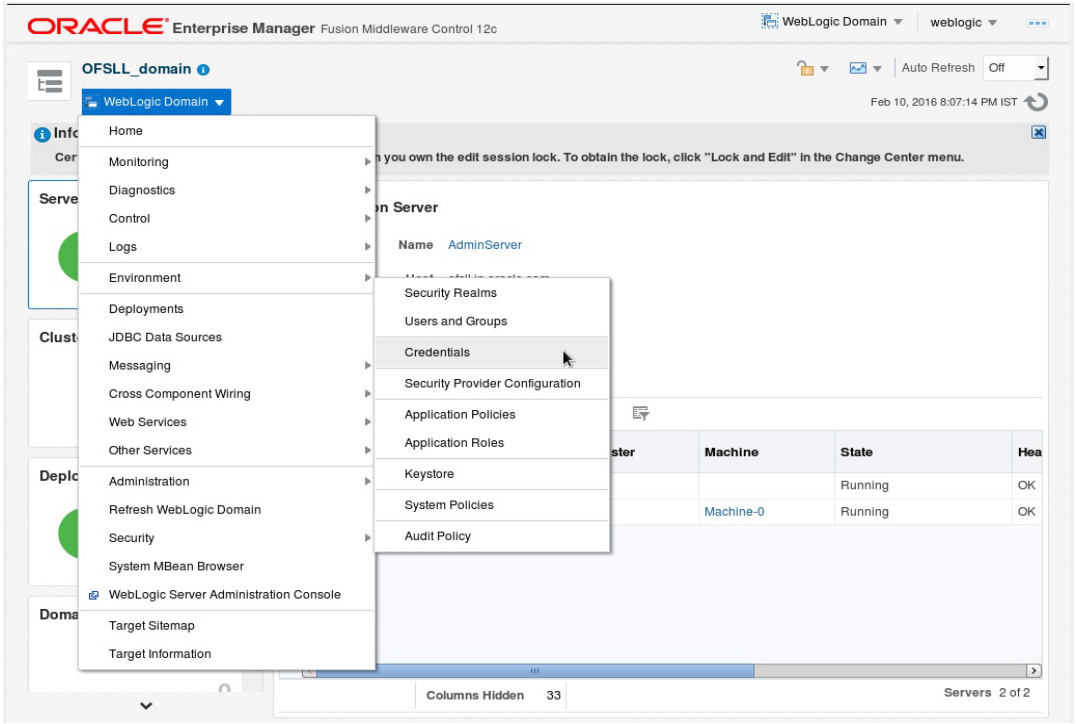


10. Click OK. The following window is displayed with the confirmation message as "The Application role of 'group_name' has been updated".

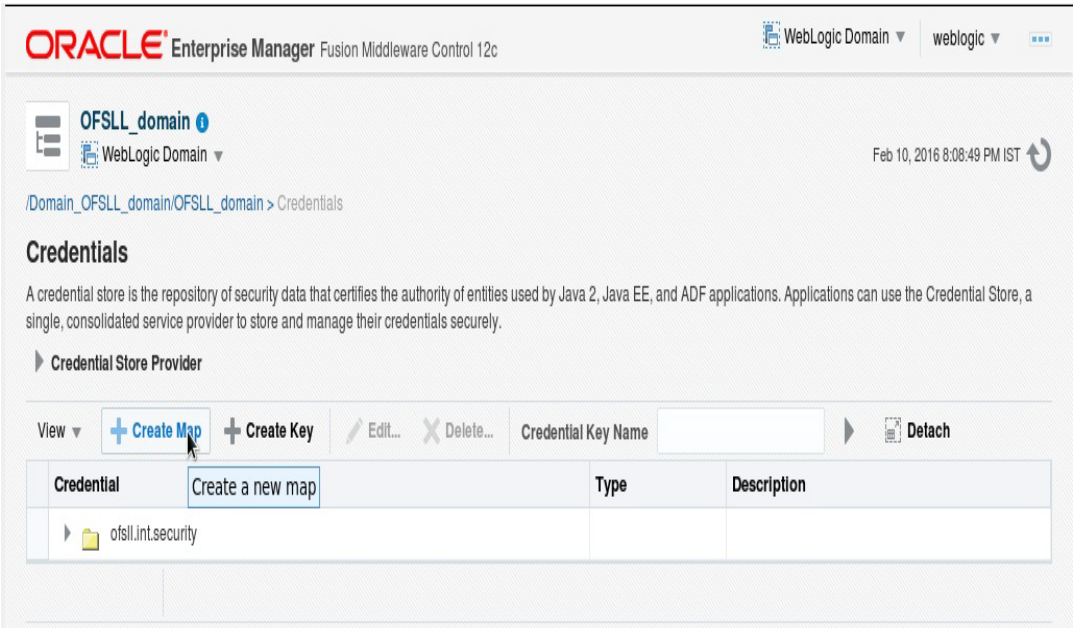

ORACLE Enterprise Manager Fusion Middleware Control 12c
WebLogic Domain
weblogic
OFSLL_domain
WebLogic Domain
Feb 5, 2016 8:20:15 PM IST
Information
An application role OFSLL_USER has been updated.
/Domain_OFSLL_domain/OFSLL_domain > Application Roles
Application Roles
Application roles are the roles 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
Scope WebLogic Domain
Provider LDAP
Location jdbc/OpssDataSource
Search
Select an application and enter a search keyword for the role name to search for roles defined by this application. Use the application stripe to search if the application uses a stripe that is different from the application name.
Application Stripe ofsll143#V14.3.0.0.0-b262
Role Name Starts With
View
Create...
Create Like...
Edit...
Delete...
Detach
Role Name
Display Name
Description
OFSLL_USER
OFSLL USER

8. Configuring JNDI name for HTTP Listener

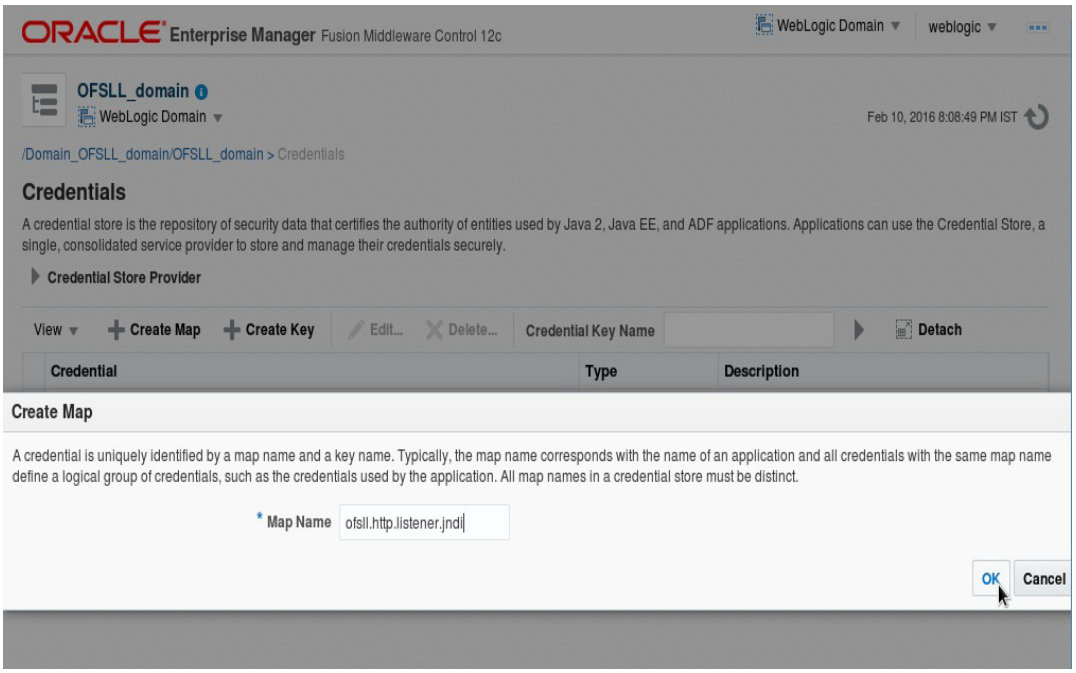
1. Click **WebLogic Domain** on the right panel. Select **Security** → **Credentials.**



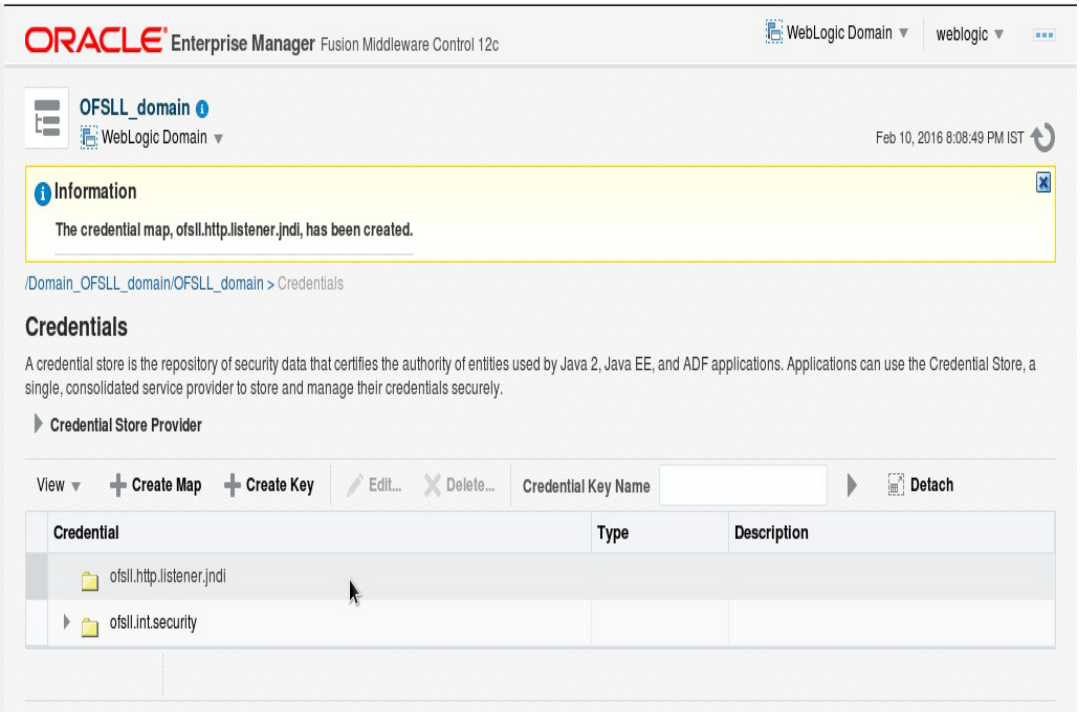
2. On clicking **Credentials** the following window is displayed.



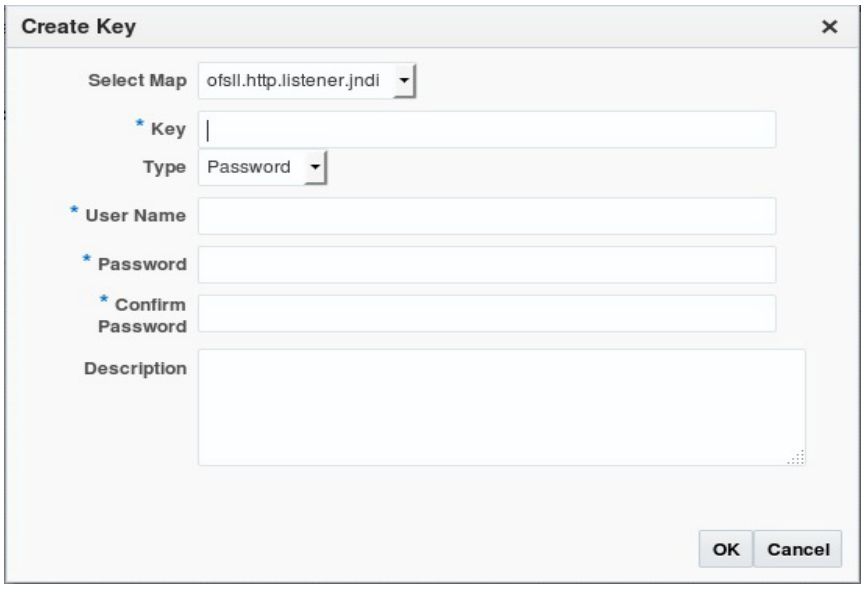
3. Click on **Create Map**. The following window is displayed.



4. Enter Map name as '**ofsll.http.listener.jndi**'.
5. Click **OK**. The following window is displayed.



6. Click **Create Key** Button. The following window is displayed.

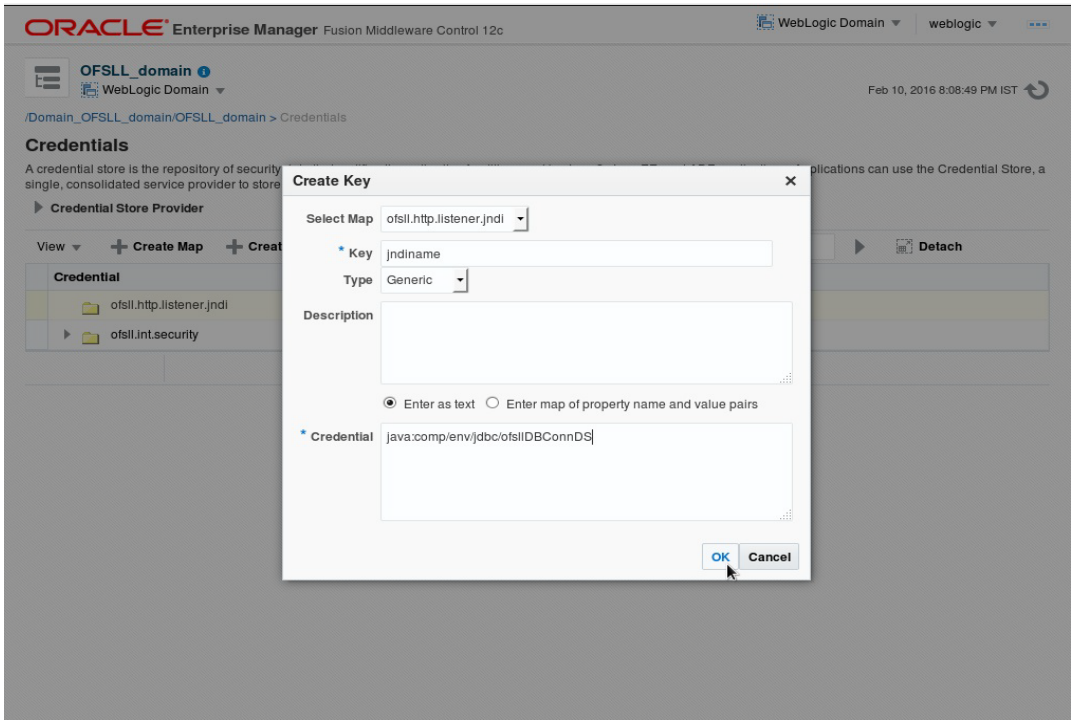


7. Enter the details as per your requirement.

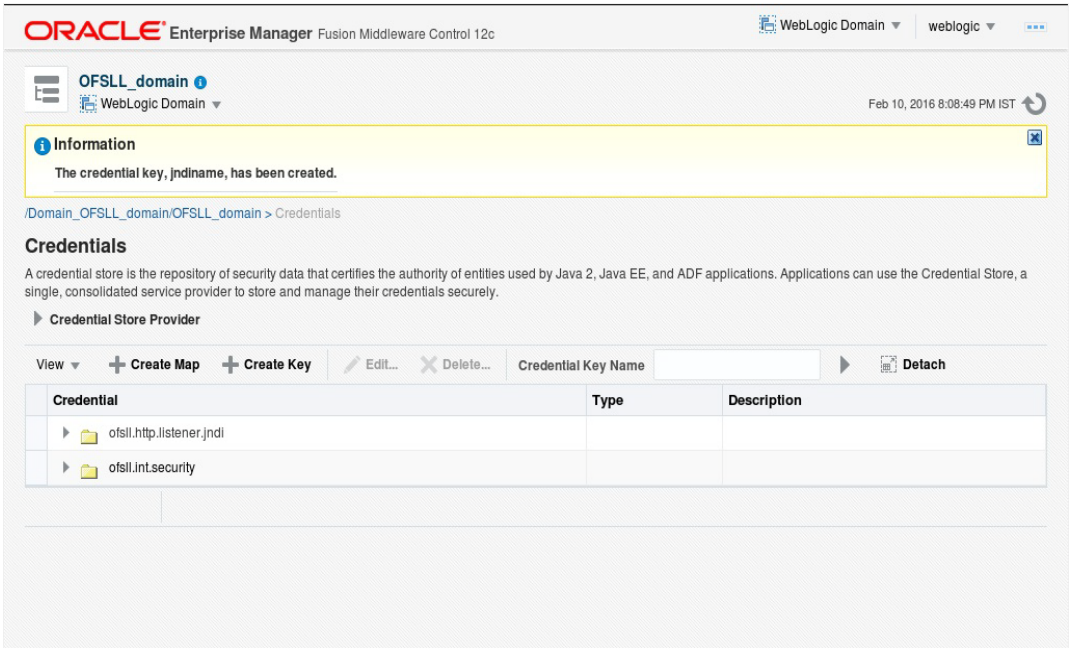
Key: jndiname

Credential: java:comp/env/jdbc/ofsllDBConnDS

Type:Generic



8. Click **OK**. The following window is displayed.



9. Configuring Oracle BI Publisher for Application

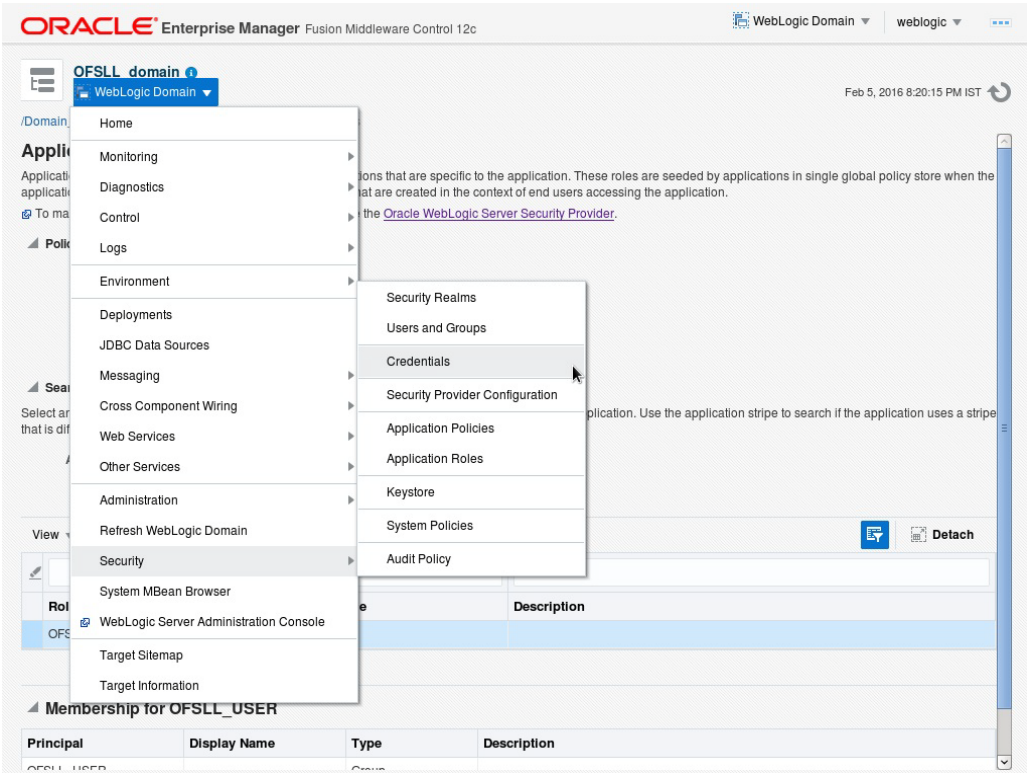
1. Copy the OfsllCommonCSF.jar from /WEB-INF/lib available in the staging area to $DOMAIN_HOME/lib
2. Update the setDomainEnv.sh file ($MW_HOME/user_projects/domains/mydomain/bin directory) by appending the above jar file path –

EXTRA_JAVA_PROPERTIES="…….. ${EXTRA_JAVA_PROPERTIES} -Dofsll.csf.path=${DOMAIN_HOME}"

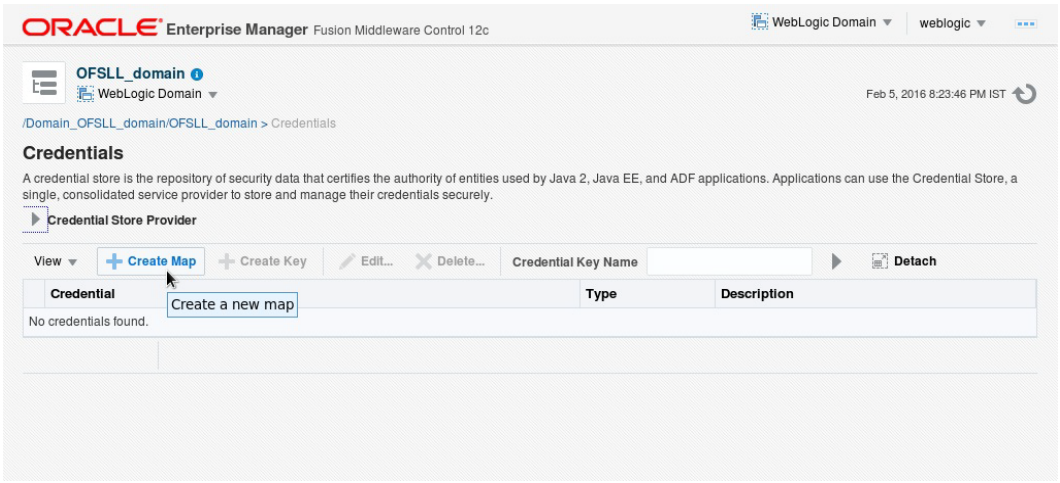
3. Configure Security via EMconsole

Note

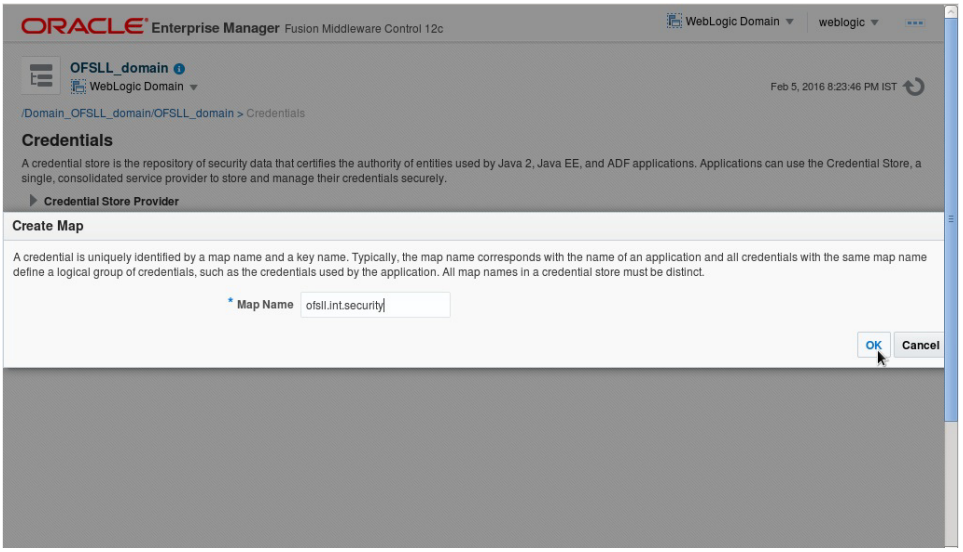
It is assumed that BI Publisher is installed and configured. Refer BI Publisher Guide for further details.



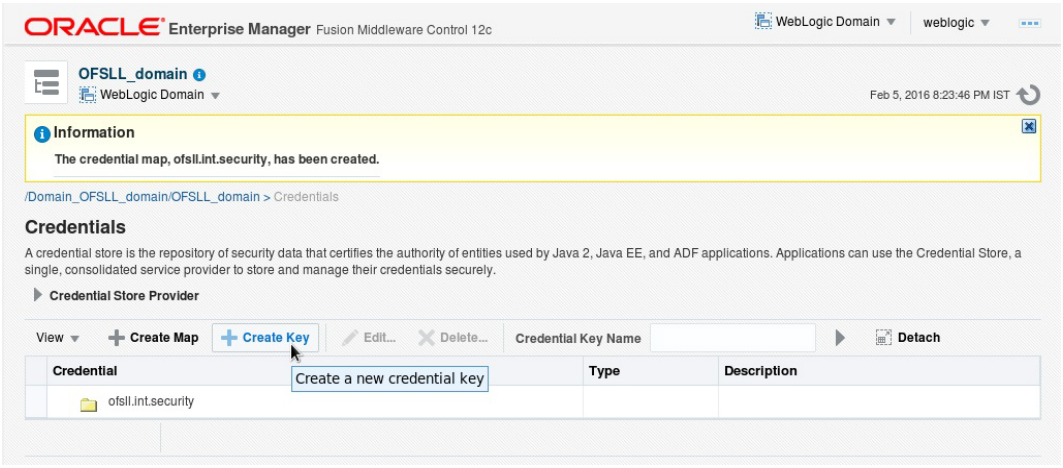
4. Click WebLogic Domain on the right panel. Select Security -> Credentials. Click ‘Create Map’.



5. Enter the Map Name: ofsll.int.security.

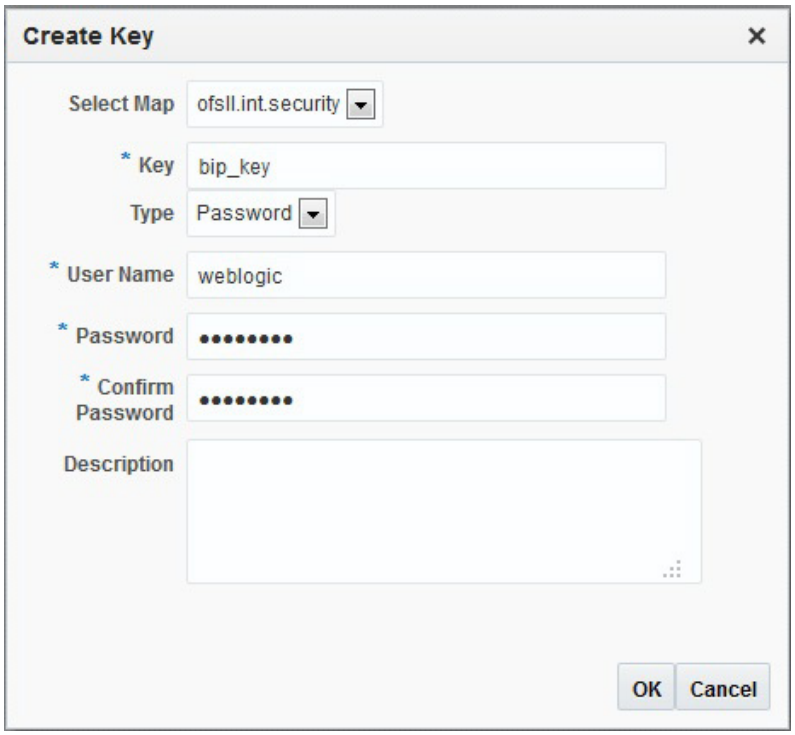


6. Click OK.

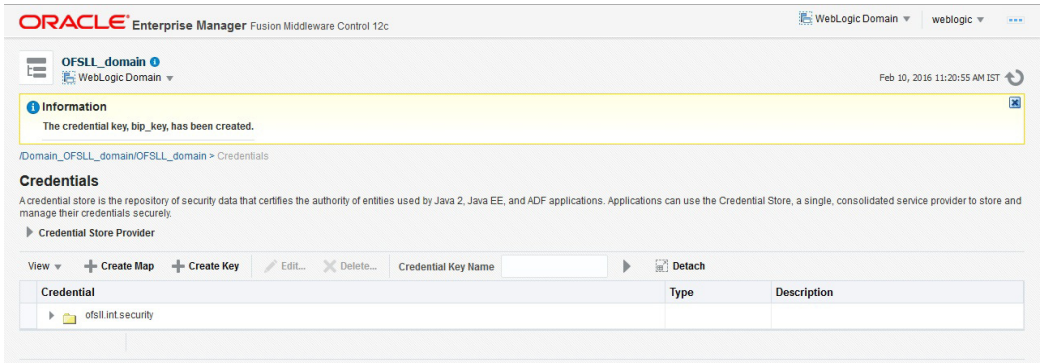


7. Click **Create Key** Button.
8. Enter the details as per your requirement.

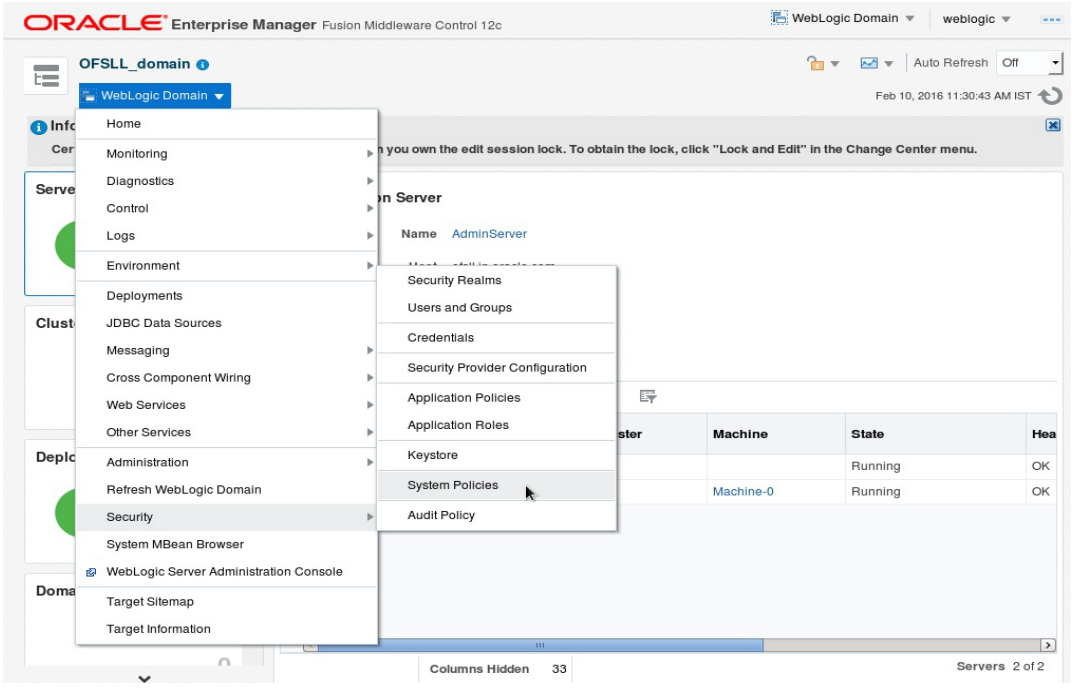
9. And provide User Name and Password of BI Publisher console.



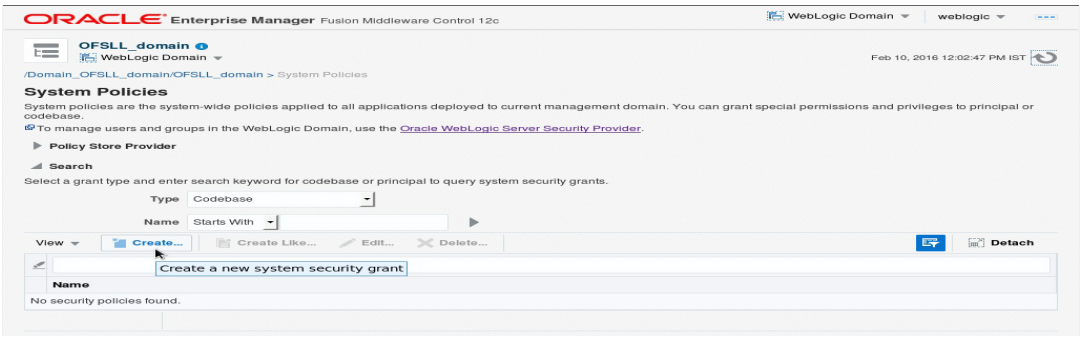
10. Click **OK**. The following window is displayed.



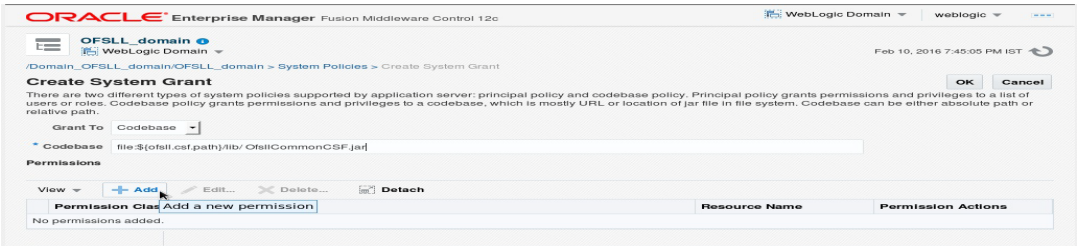
11. On the left panel, right click on the domain OFSLL_domain > Security > System Policies. The following window is displayed.



12. Click Create.



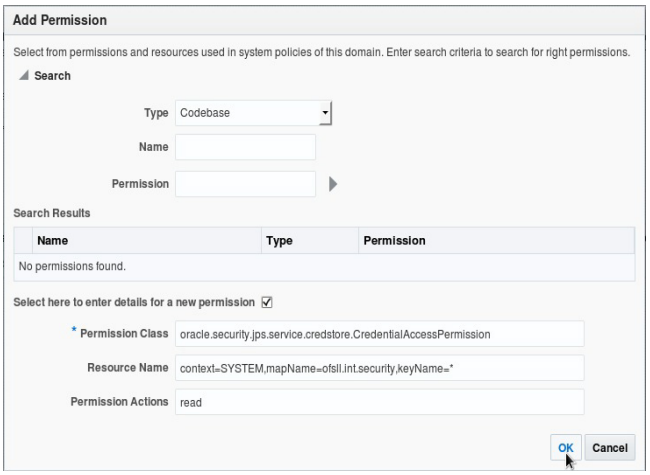
13. The following window is displayed. Enter the codebase as "file:${ofsll.csf.path}/lib/ OfsllCommonCSF.jar" and click Add.



14. The following window is displayed. Select the checkbox 'Select here to enter details for a new permission' and enter the following details as the first permission class.

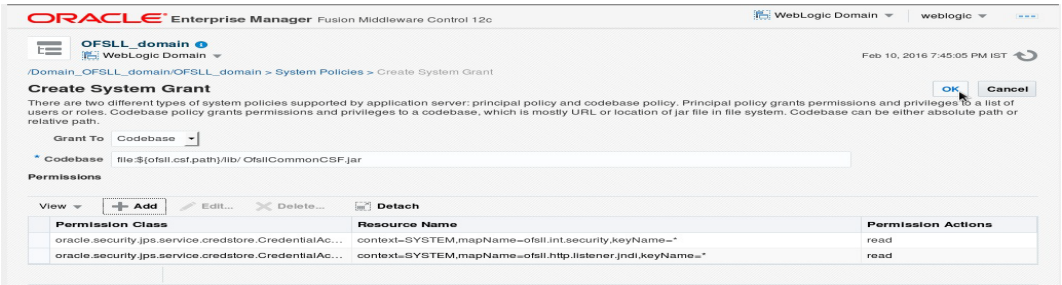
- Permission Class: oracle.security.jps.service.credstore.CredentialAccessPermission
- Resource Name: context=SYSTEM,mapName=ofsll.int.security,keyName=*

- Permission Actions: read

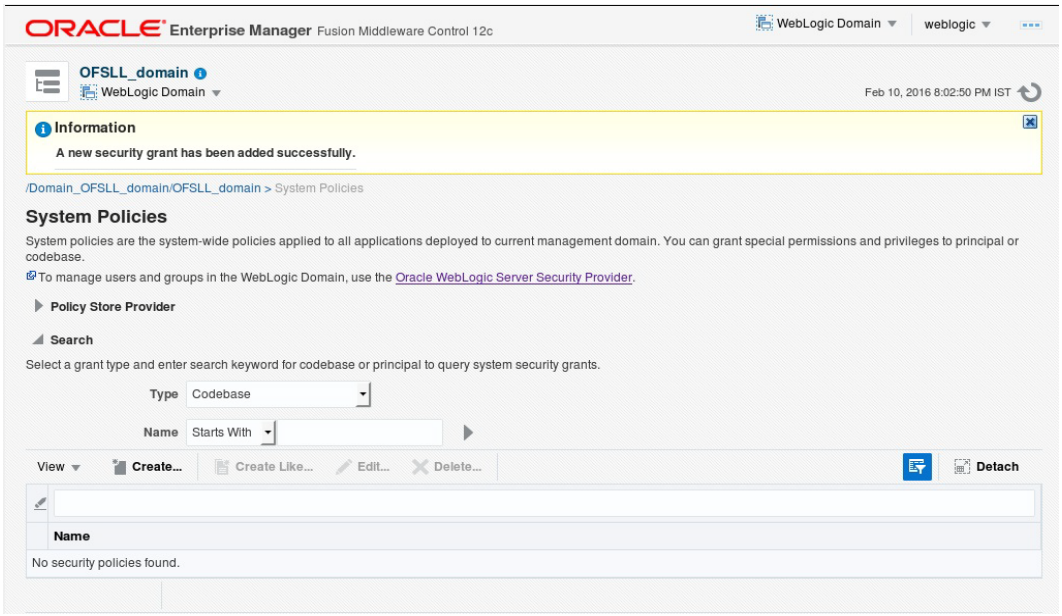


Configuring JNDI Name for http Listener

1. Similarly, click Add to add the second permission class. Select the check box 'Select here to enter details for a new permission' and enter the following details as the second permission class.
   - Permission Class: oracle.security.jps.service.credstore.CredentialAccessPermission
   - Resource Name: context=SYSTEM,mapName=ofsll.http.listener.jndi,keyName=*
   - Permission Actions: read
2. Click OK. The following window is displayed.



3. Click OK. The following window is displayed.



10. Launching Application

Verifying Successful Application Deployment and Launching Application

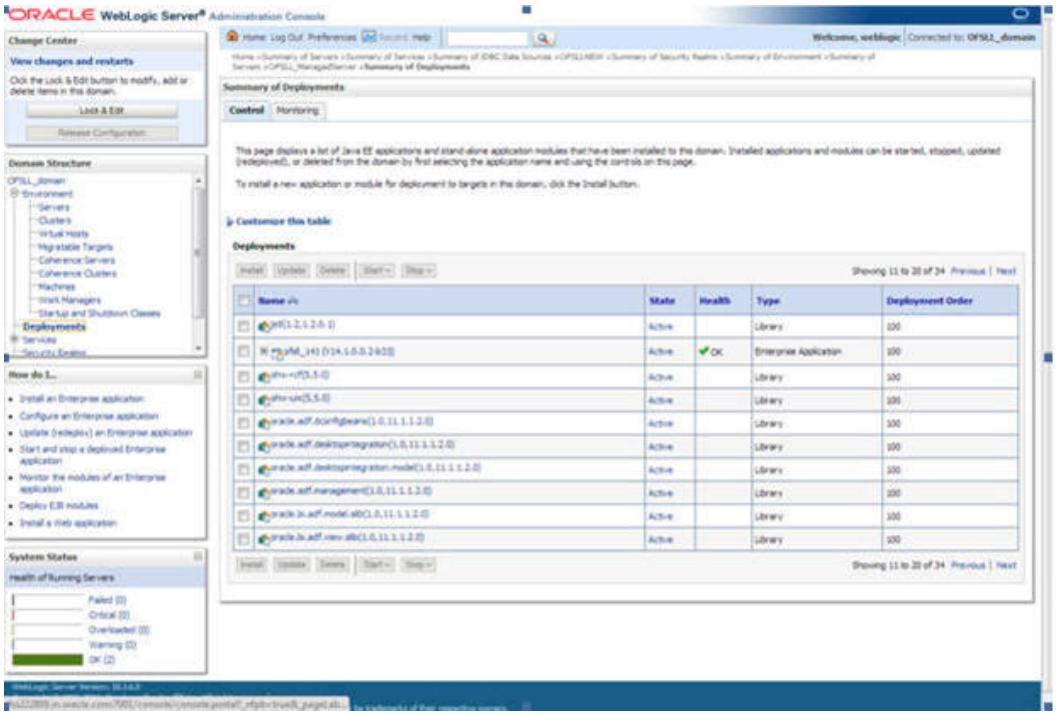
Successful Application deployment can be verified by following:

- Making sure that the state is ACTIVE and health in OK in the Weblogic.
- Access and log into the application.

After you enable SSL you can launch the application via https:\\ protocol.

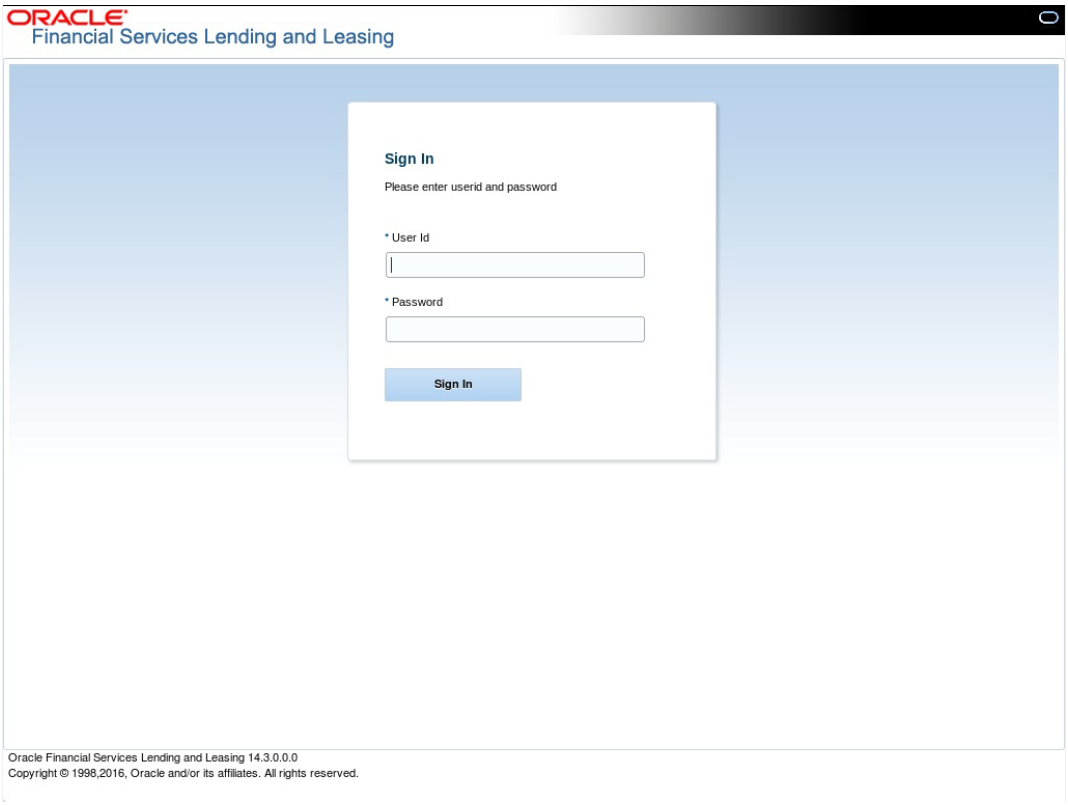
To launch application

1. Verify if the deployed OFSLL application is **Active**.

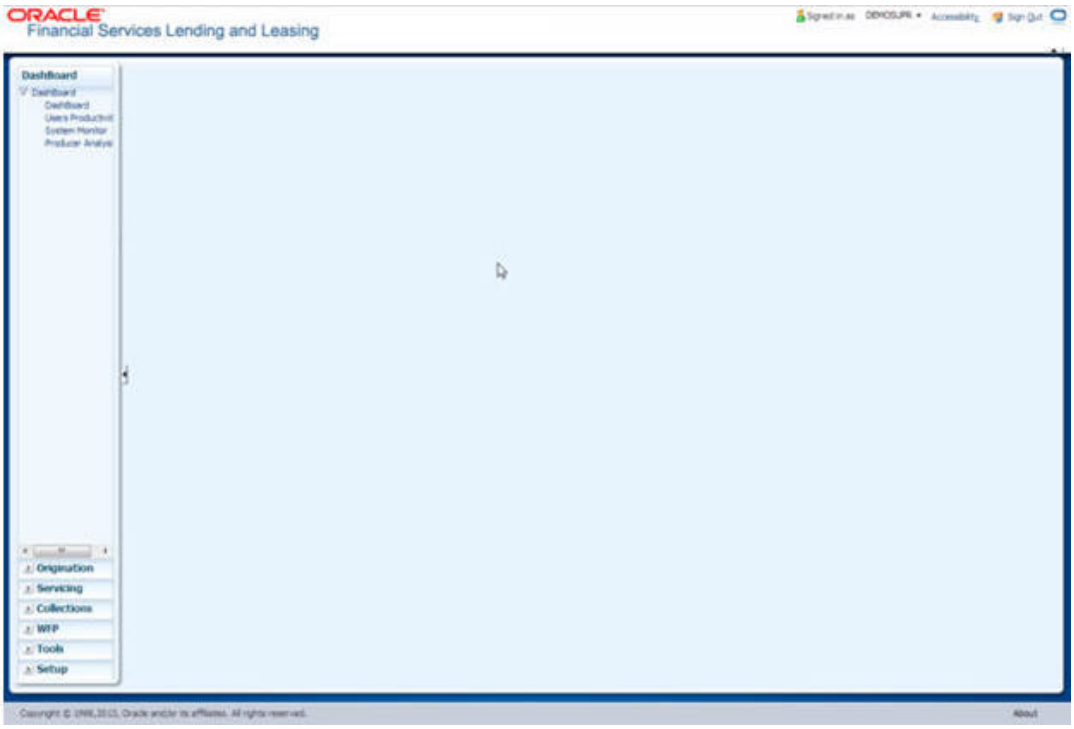


2. The URL of the OFSLL application will be
   https://<hostname>:<Port>/<ContextName>/faces/pages/OfsllSignIn.jsf
   (Example: https://localhost:7003/ofsll143/faces/pages/OfsllSignIn.jsf)

3. Login with the user credentials that was created in Users Creation.



4. After successful login, the following screen is displayed



11. Installing Upgrade

There is an infrastructure upgrade required (from 11g fusion middleware to 12c fusion middleware) when upgrading from OFSLL 14.2.0.0.0 to OFSLL 14.3.0.0.0.

Hence, it is recommended to install a new 12c fusion middleware infrastructure and deploy the 14.3.0.0.0 OFSLL application.