

Liquidity Management Application Setup
Oracle Banking Liquidity Management
Release 14.0.0.0.0
[November] [2017]



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1. Weblogic Domain Server Configuration

1.1 Introduction

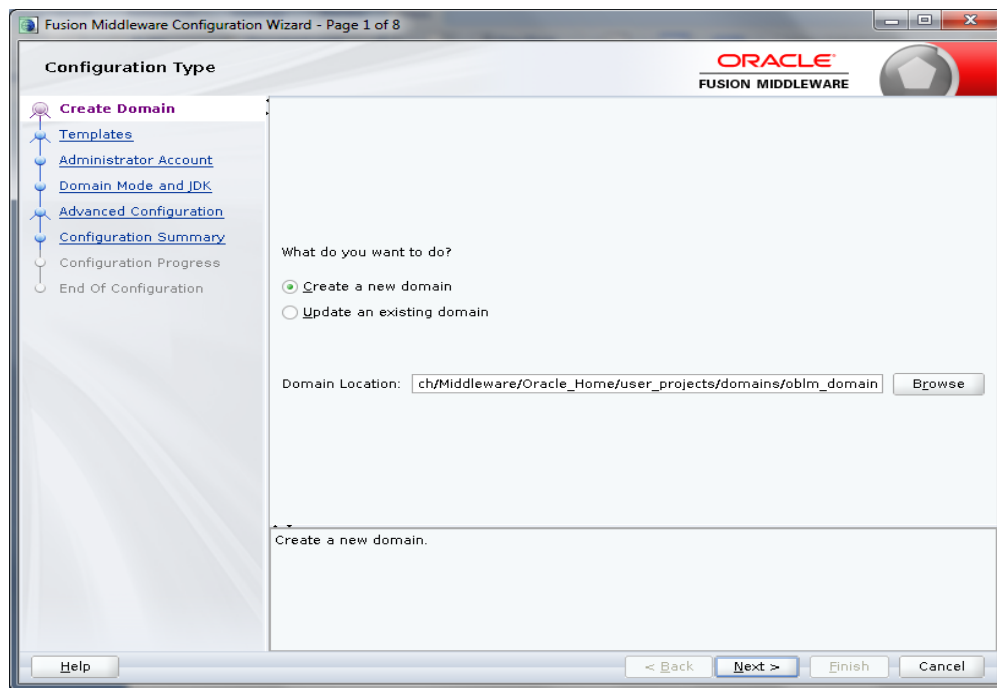
This chapter details out the configuration of Oracle Weblogic Domain server.

Prerequisite: Weblogic Server should be installed.

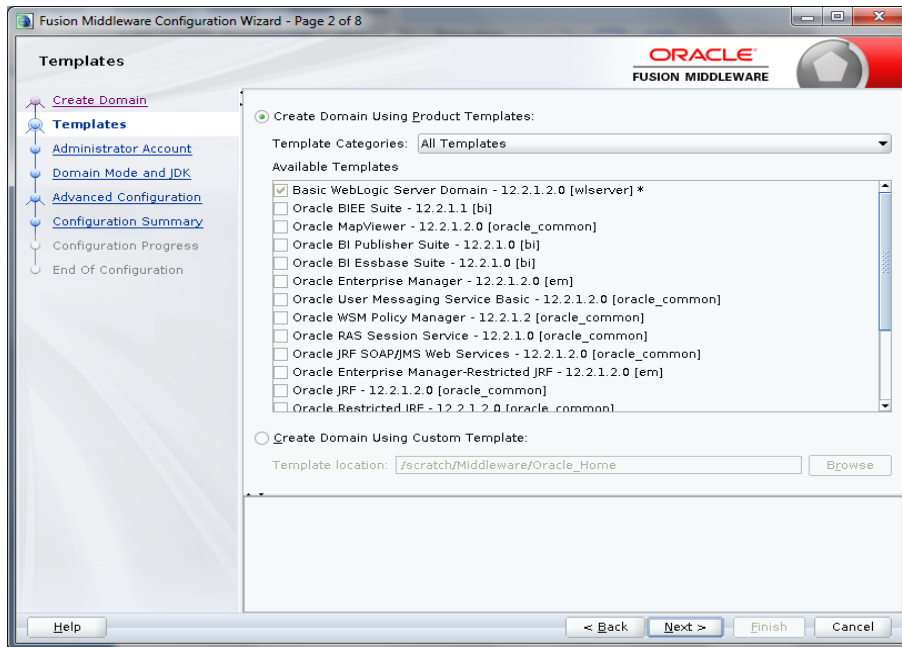
1.2 Steps to be followed for Weblogic Domain Server

To create a new domain

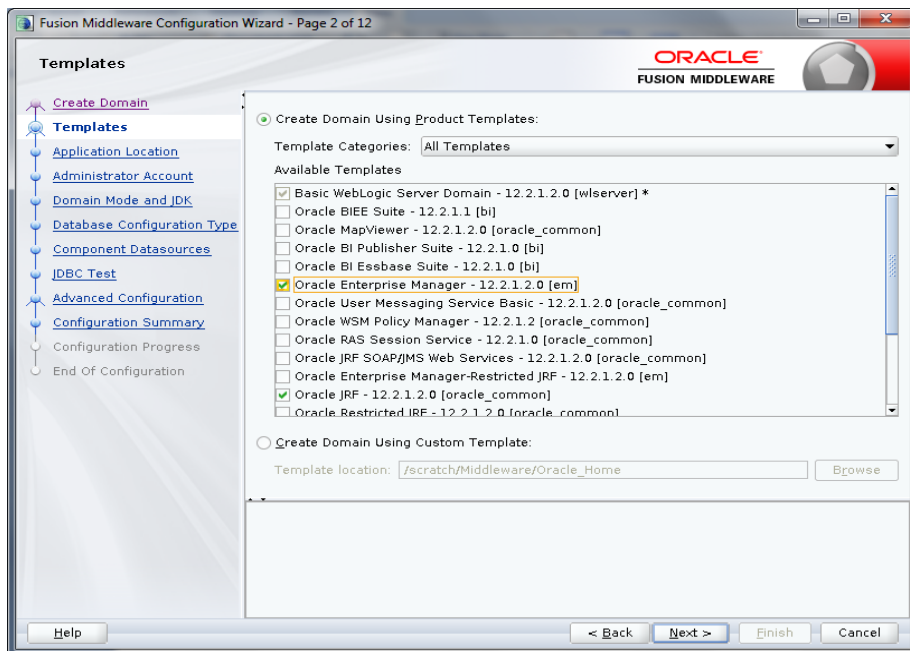
1. Open any Linux client e.g. Putty
2. Go to Oracle Home path where Weblogic server is installed Eg.
/scratch/Middleware/Oracle_Home/oracle_common/common/bin
3. Now Execute config.sh,
4. Following Screen should appear, Click on **Create Domain** and select Create a new domain e.g. *oblm_domain* and Next.



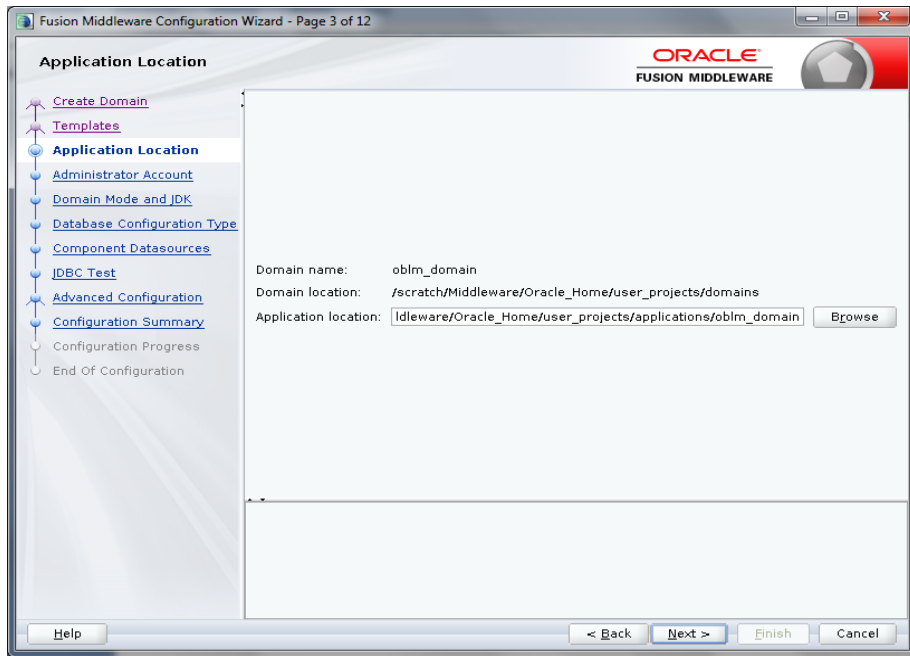
5. Below Screen will appear



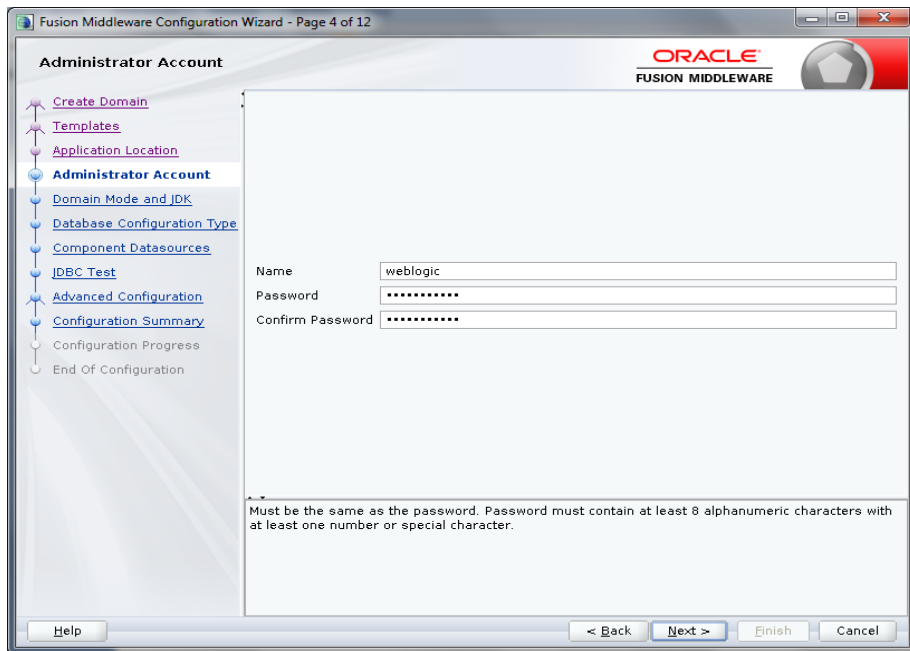
6. By default **Basic Weblogic Server Domain** are enabled. Additionally, Choose **Oracle Enterprise Manager - 12.2.1.2.0 [em]**, this in turn will choose **Oracle JRF - 12.2.1.2.0[oracle_common]** and **Weblogic Coherence Cluster Extension – 12.2.1.2.0 [wlserver]** and click **Next**.



7. Following Screen will appear, Review it and Click **Next**.

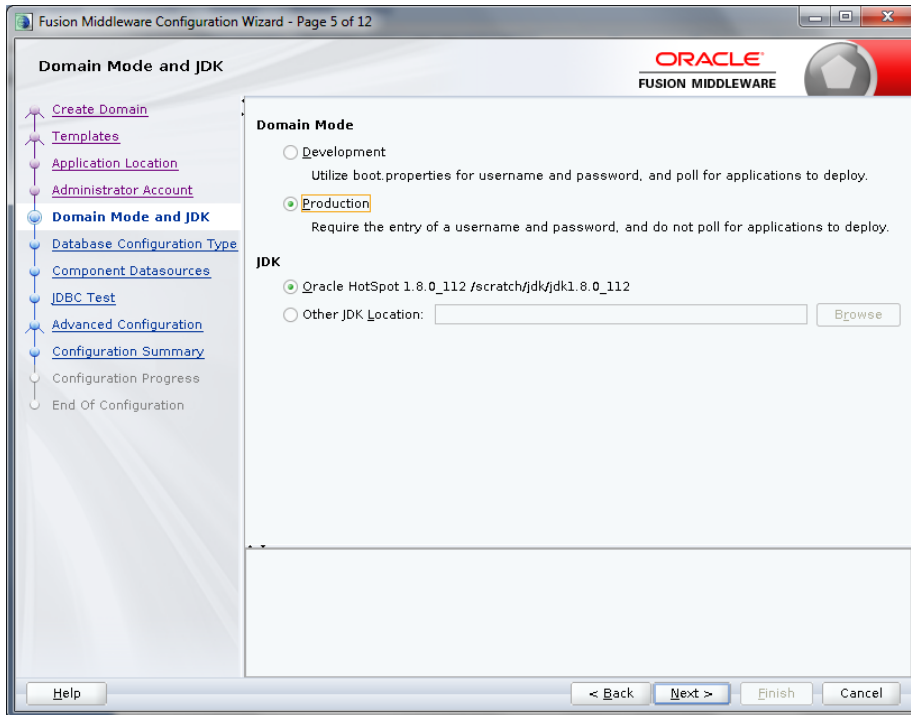


8. In Administrator Account screen enter 'weblogic' in Name box. Enter and confirm any suitable password and confirm password for Weblogic and click **Next**. **Please remember this User Name and Password as these will be used in many places.**

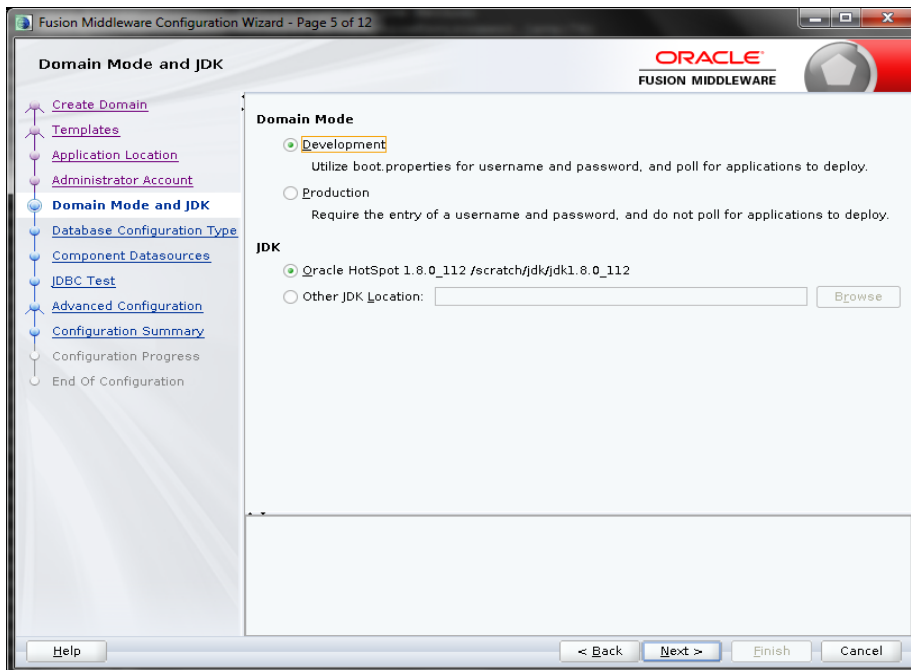


9. Domain Mode and JDK screen will appear, Now choose either the Development Mode or Production Mode.

While choosing Production Mode, select production under **Domain Mode**



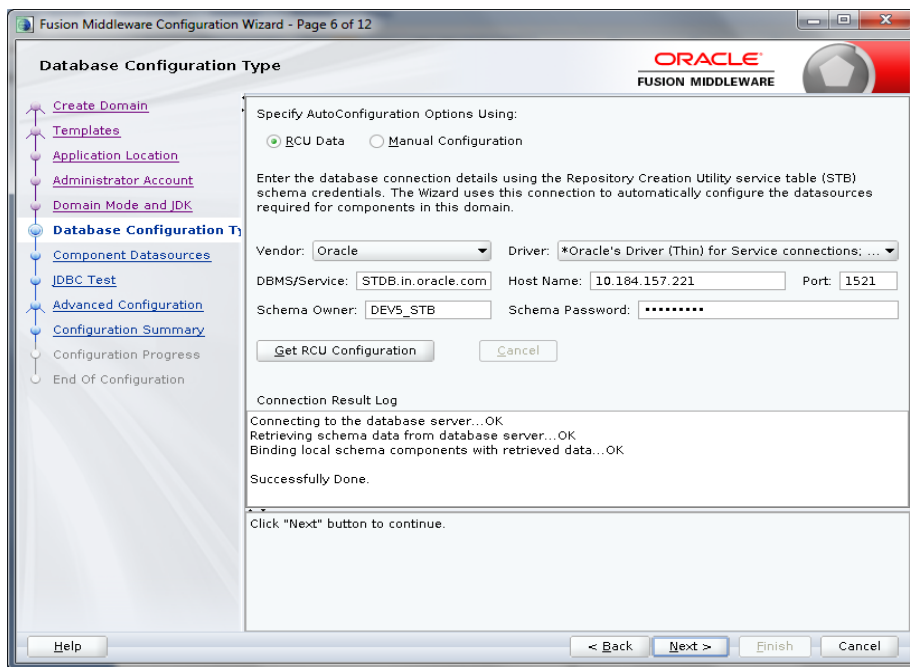
While choosing Development Mode, select Development under **Domain Mode**.



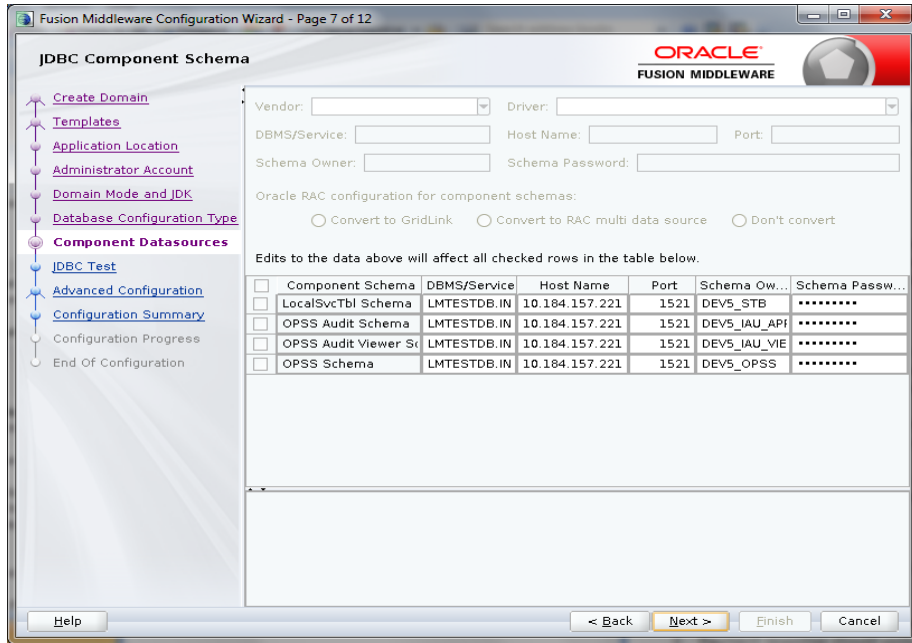
10. Database Configuration Type Screen will appear, Select **RCU Data**. Give the RCU (Repository Creation Utility) Details that you have created already. **If not created use the Repository Creation Utility Manual and Create a Schema Owner**. Enter the rest of the details as follows:

- *Vendor:* Oracle
- *Driver:* Oracle's Driver (Thin) for Service connections
- *DBMS/Service:* Enter the Service Name of your DB
- *Host Name:* Enter the IP address of the system where your DB is installed
- *Port:* Enter the Port Number of your DB
- *Schema Owner:* Enter the Schema Owner created while RCU setup with suffix **_STB**. Here DEV5 is the Schema Owner, suffix with **_STB** it will be DEV5_STB as Schema Owner
- *Schema Password:* Enter the password as given while creating the RCU

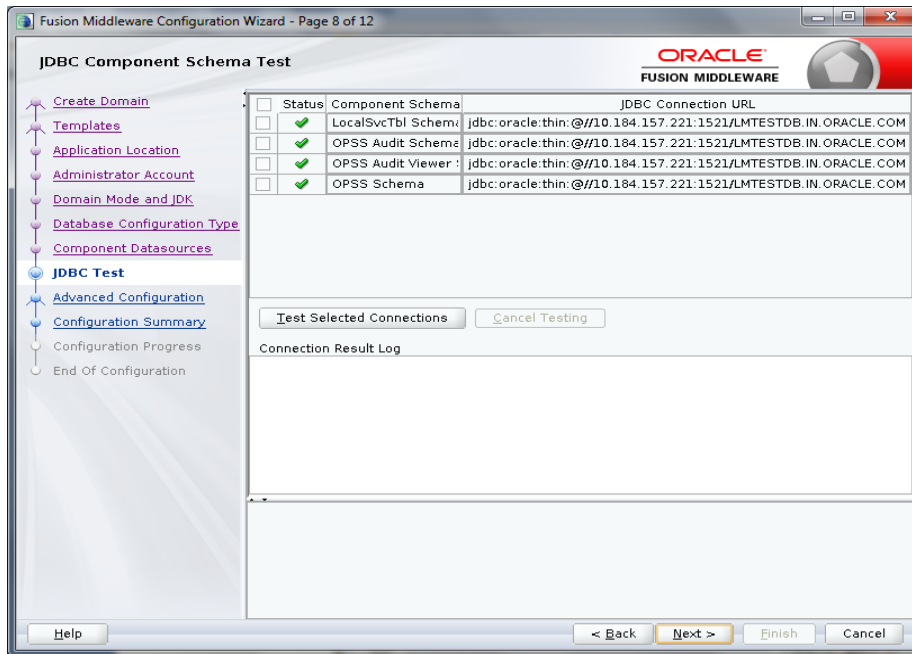
Click on **Get RCU Configuration**, if successfully done move to **Next Step**.



11. Now Component Data Sources screen will appear. Following data will appear on the screen. Following data will appear on the screen. Click **Next**.



12. JDBC Test screen will appear. Following data will appear on the screen, review it. Click **Next**.



13. Advanced Configuration screen will appear. Tick in front of Administration Server and click on **Next**.



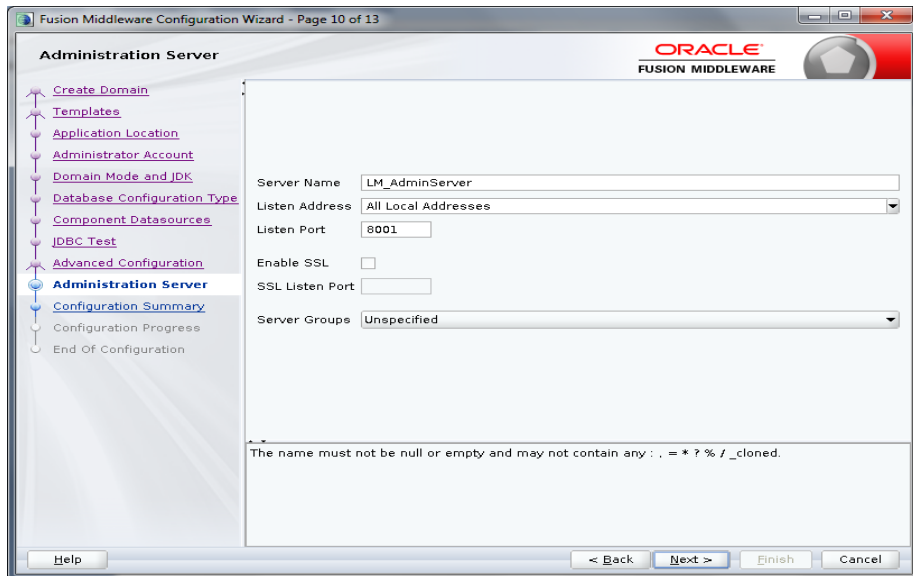
14. Administration Server screen will appear. Give the following details in the screen.

Server Name: LM_AdminServer

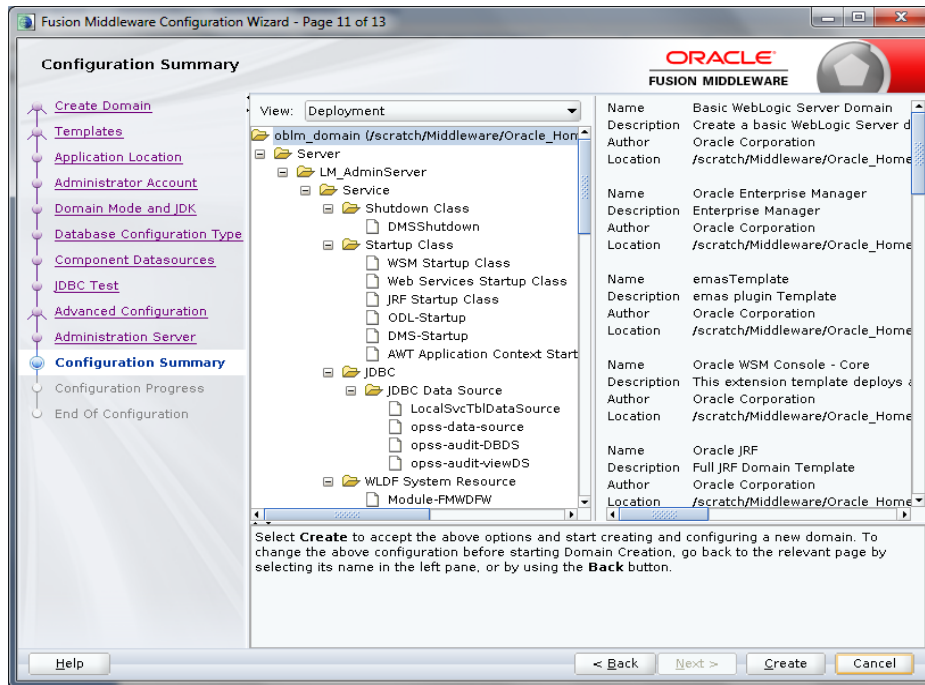
Listen Address: Select 'All Local Addresses'

Listen Port: 8001

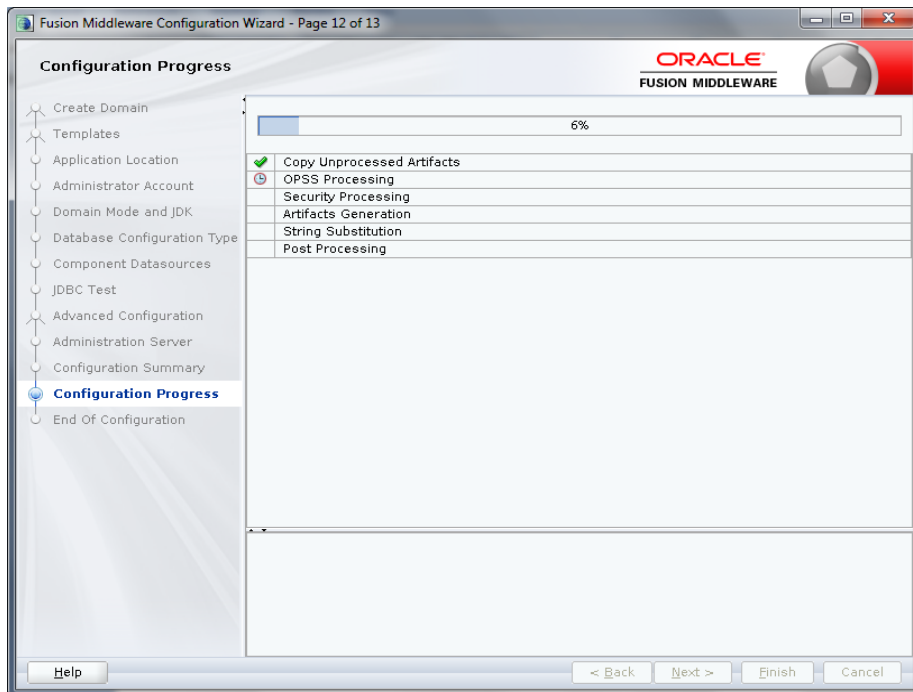
Server Groups: unspecified

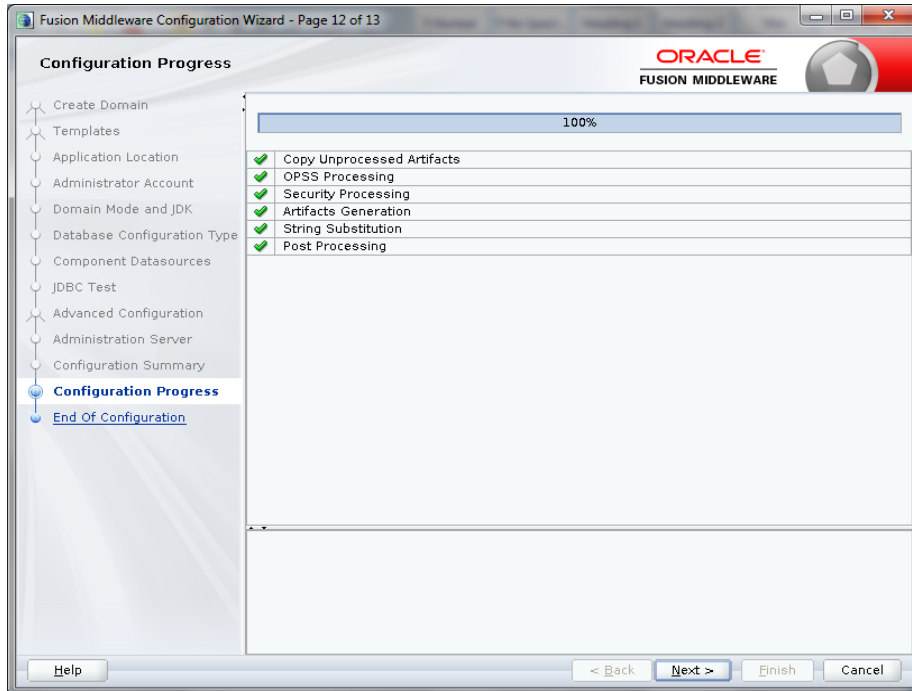


15. Configuration Summary screen will appear. Review and click **Create**.

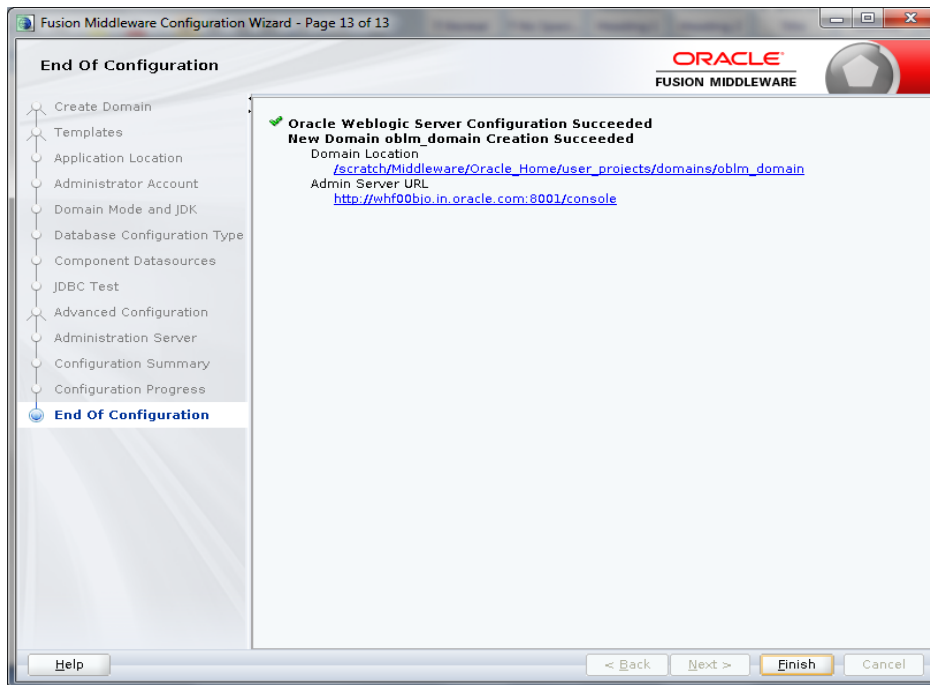


16. Now the following screens will come





17. End of configuration screen will come and click **finish**.



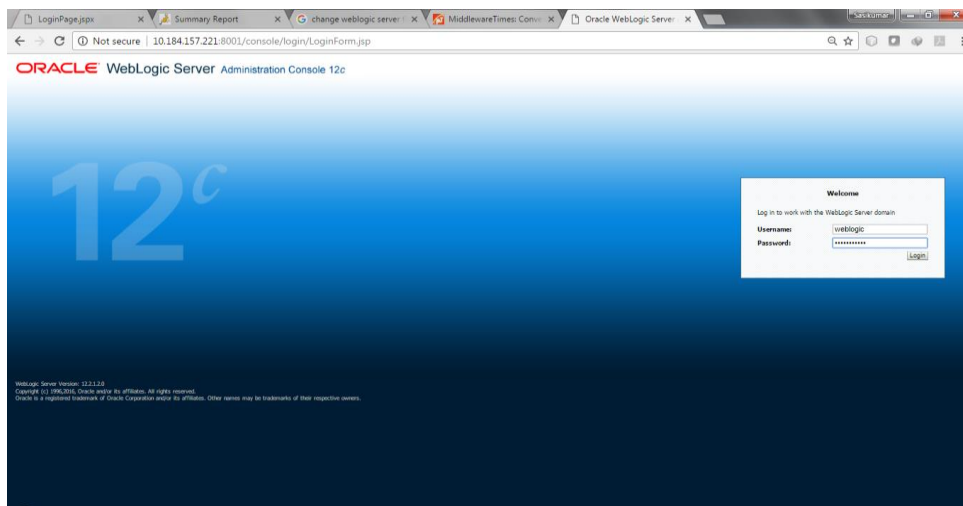
2. Liquidity Management Application Configuration

2.1 Introduction

In this part basically, we will do configuration of Weblogic Administrative console.

2.2 Steps to be followed for configuration of Administrative console

1. Give the credential in the console page that you have set in Administrator Account screen.



2. Now we can see home screen. In home screen in the left side you will find Domain Structure column. Go to Environment and click on sever under that.

Name	Type	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Configured			RUNNING	OK	8001

2.2.1 Create Managed Server

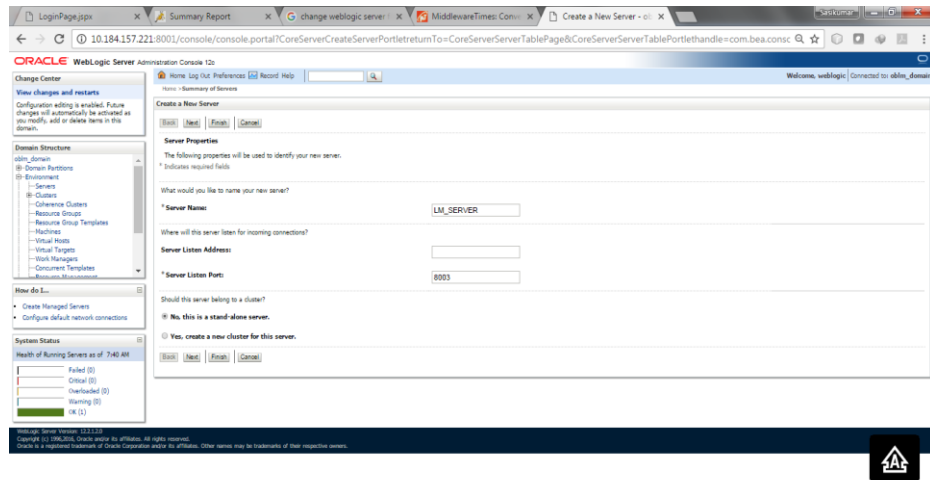
1. Click on **New** to create a new server.

Enter the following details.

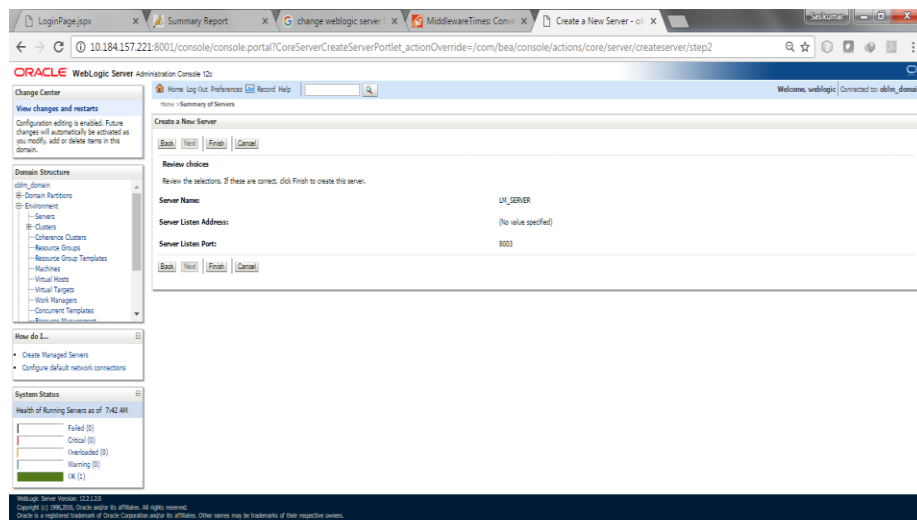
Server Name : LM_SERVER

Server Listen Port: 8003

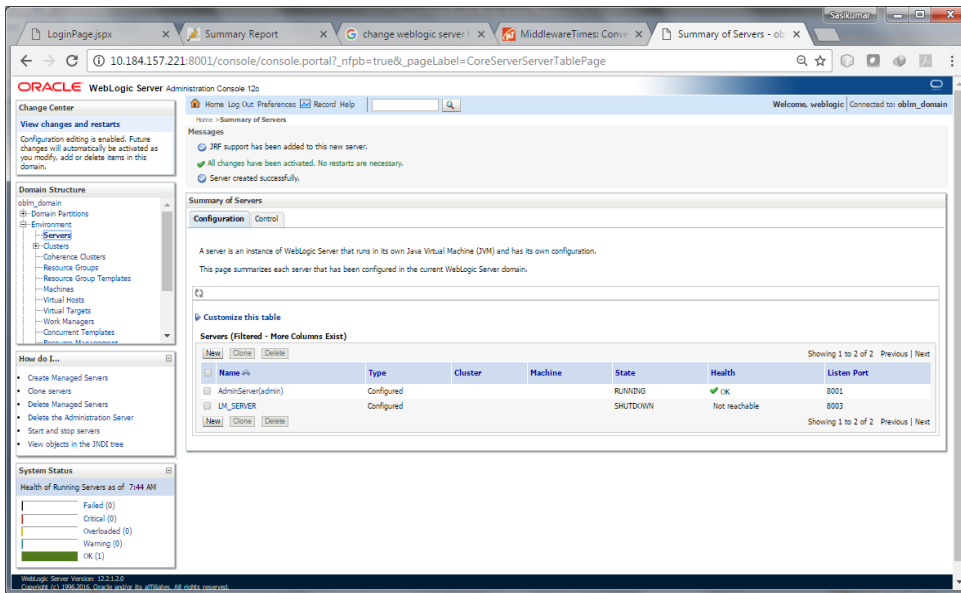
Leave other fields as it is.



2. Click Next. The following screen will come.

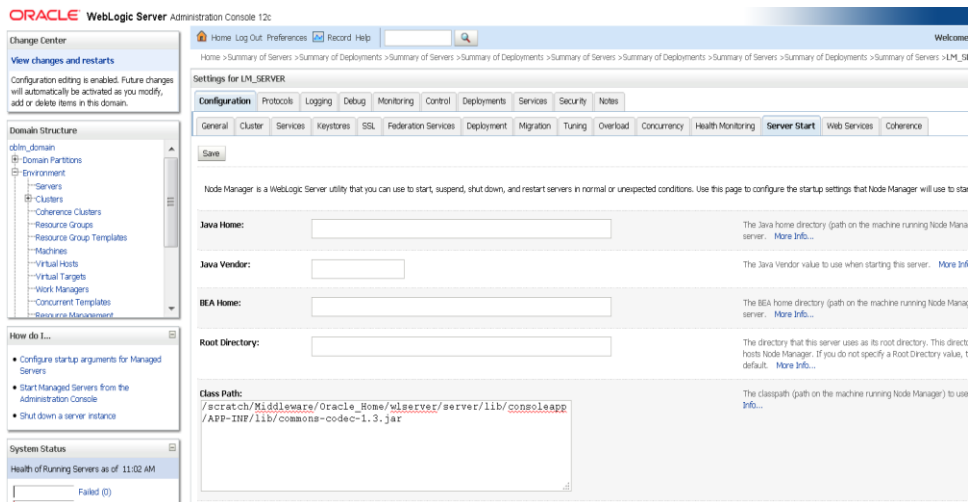


3. Click on **finish**. The following screen will come.



4. Click LM_SERVER, Under **Configuration** click the **Server Start** Menu,

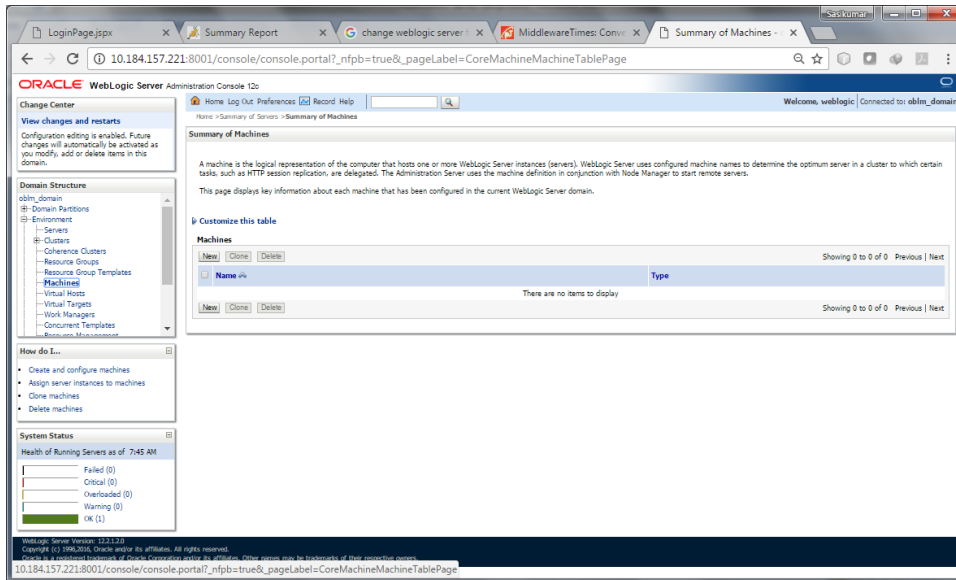
In **Class Path** field add the following Jar path /<<weblogic home>>/wlsrver/server/lib/consoleapp/APP-INF/lib/commons-codec-1.3.jar



5. Click on **Save**.

2.2.2 Create Machine

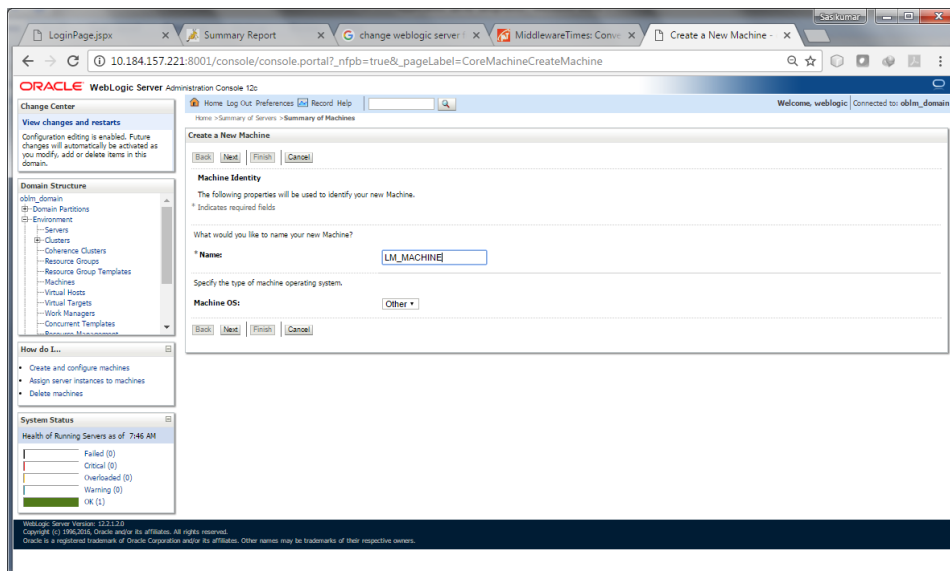
1. Under **Environment** click on **Machine** then following screen will come. Click on **New**.



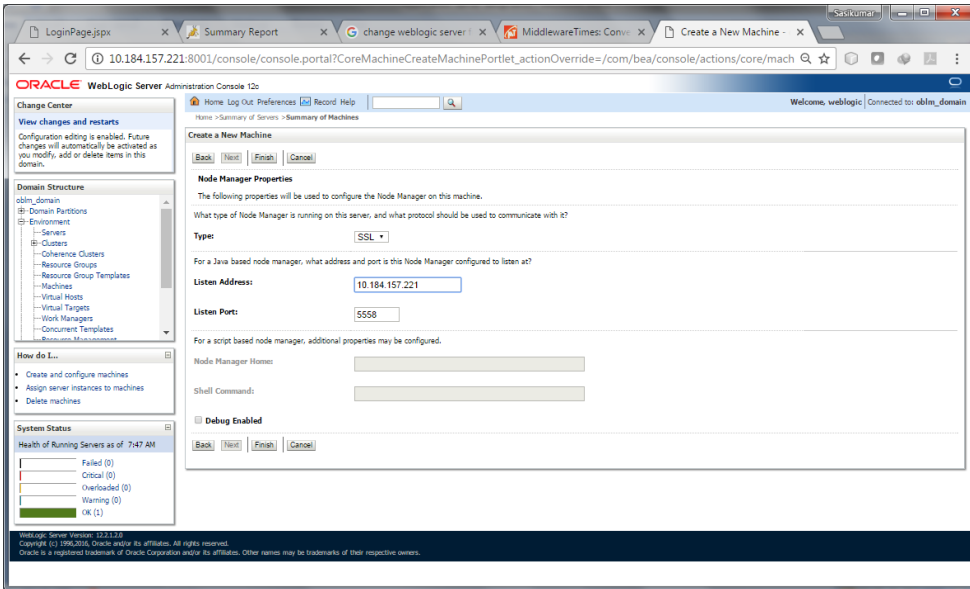
2. Give the following details.

Name: **LM_MACHINE**

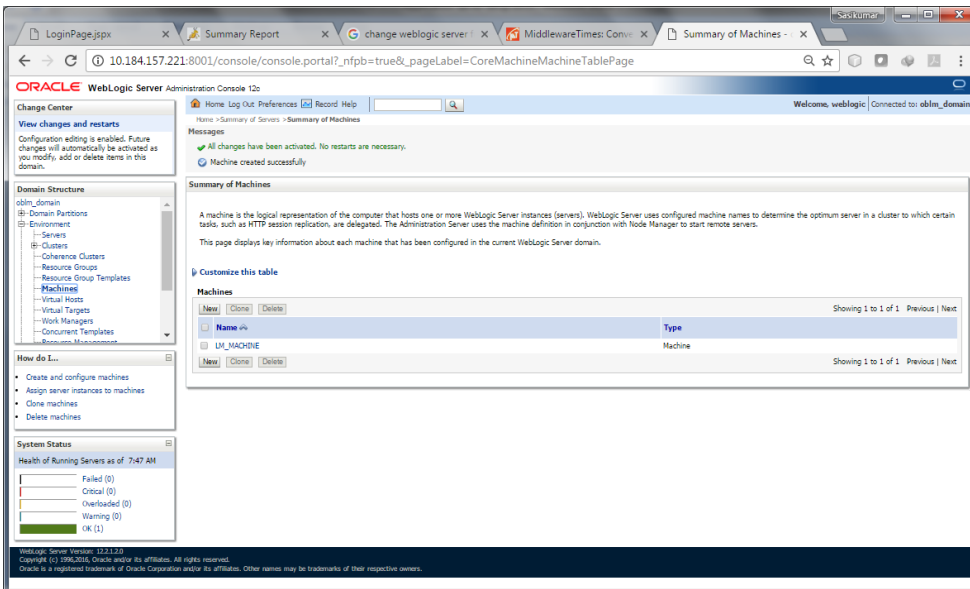
Machine OS: **others**



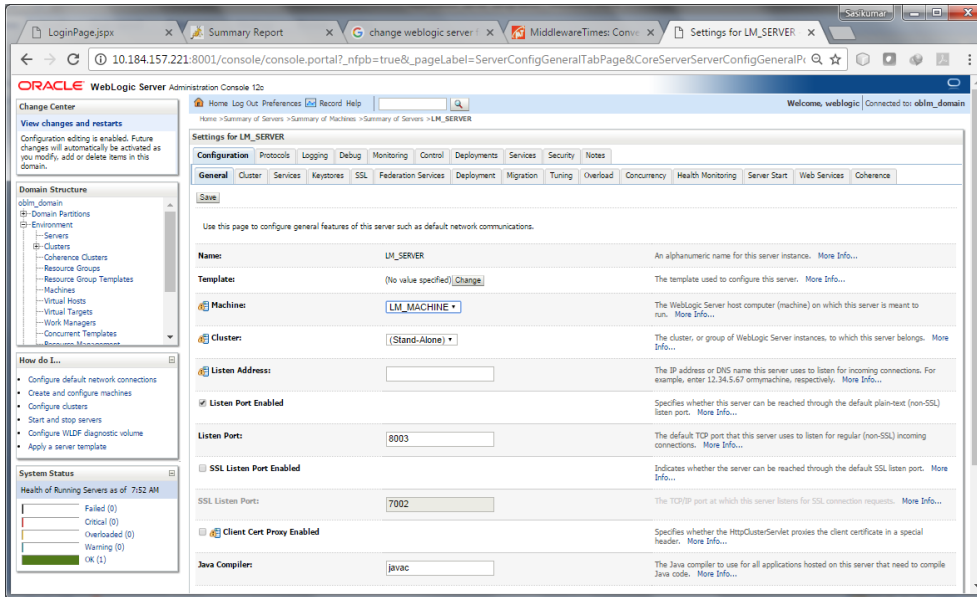
3. Click on **Next**. Enter **localhost** or the I.P. Address of the system as Listen **Address**. Click on **Finish**.



4. **LM_Machine** is created



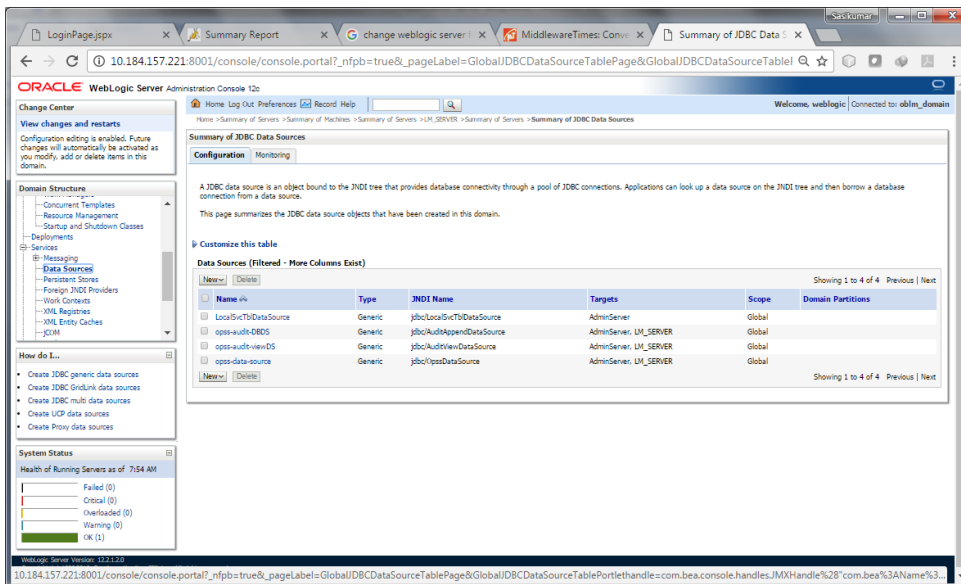
5. Map LM_SERVER to LM_MACHINE



2.2.3 Create Data Source

2.2.3.1 Create LM Data source

1. Click on the Data Sources under Services



2. Click on **New** and select **Generic Data Source**

3. Give the below details:

Give the JDBC Data Source Properties

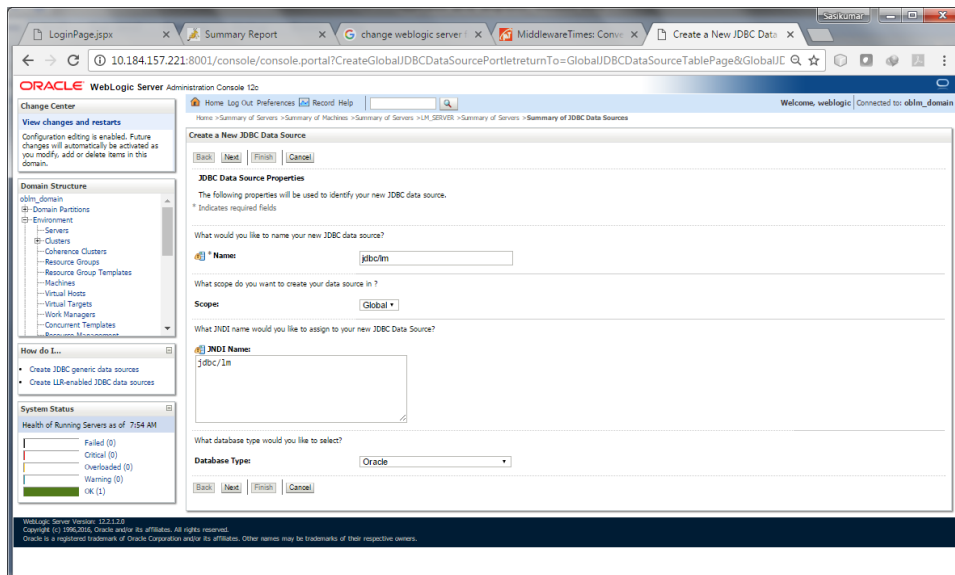
Name: jdbc/lm (Same name has to be maintained)

Scope: Global

JNDI Name: jdbc/lm (Same name has to be maintained)

Database Type: Oracle

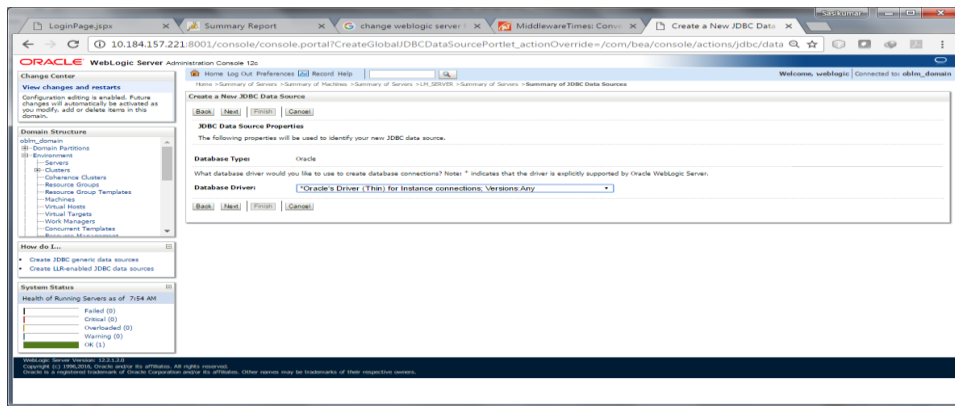
Note: Since all the **persist.xml** and **fcubs.properties** files are referring to the above mentioned JNDI Name, It is recommended not to use any other JNDI Name.



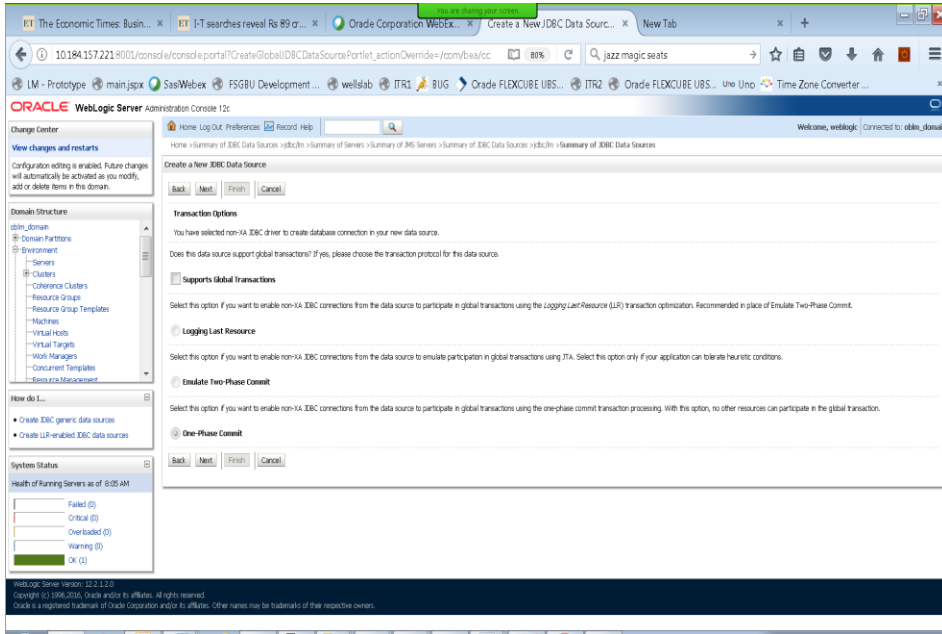
4. Choose Database Driver as Oracle's Driver (Thin) for instance Connections; Version: Any

For Constant Databases(CDB) follow Step 3 – Step 7

For Pluggable Database(PDB) follow Step 8 – Step 12

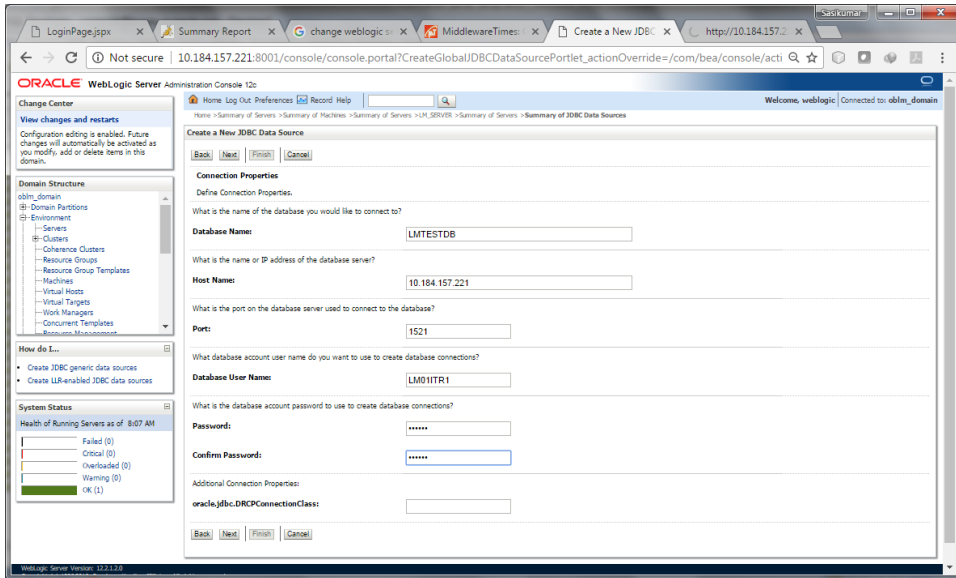


5. Un-check **Supports global transactions**

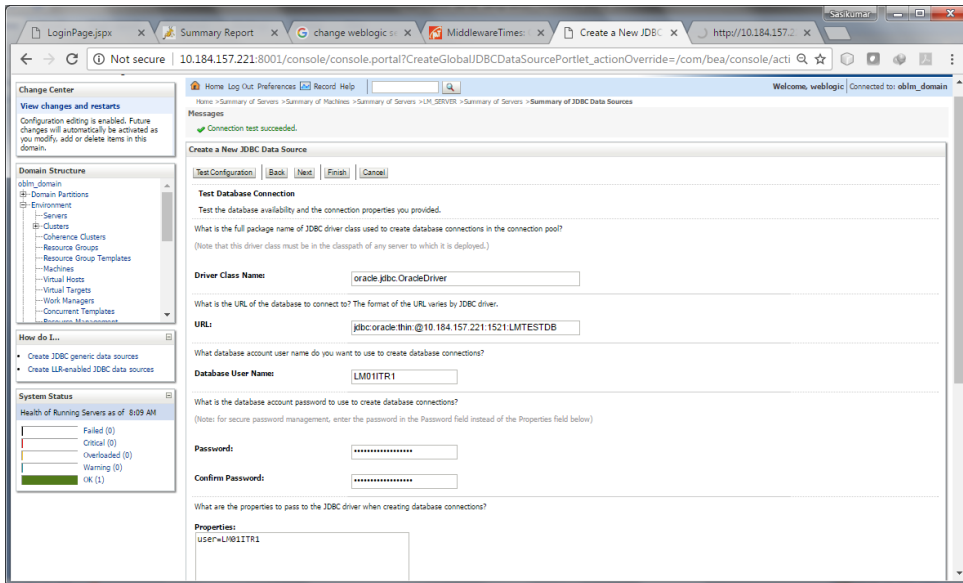


6. Give the **Connection Properties**, Example below

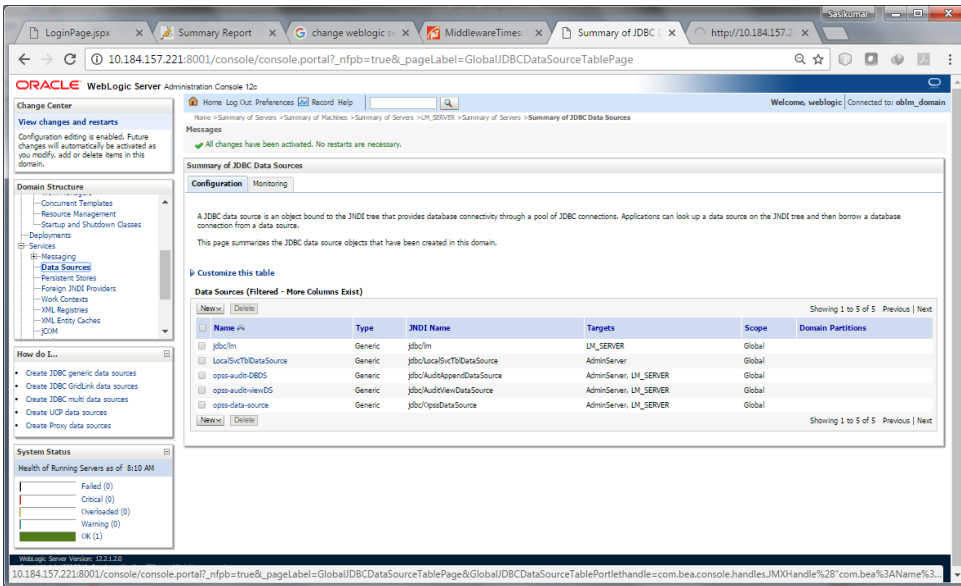
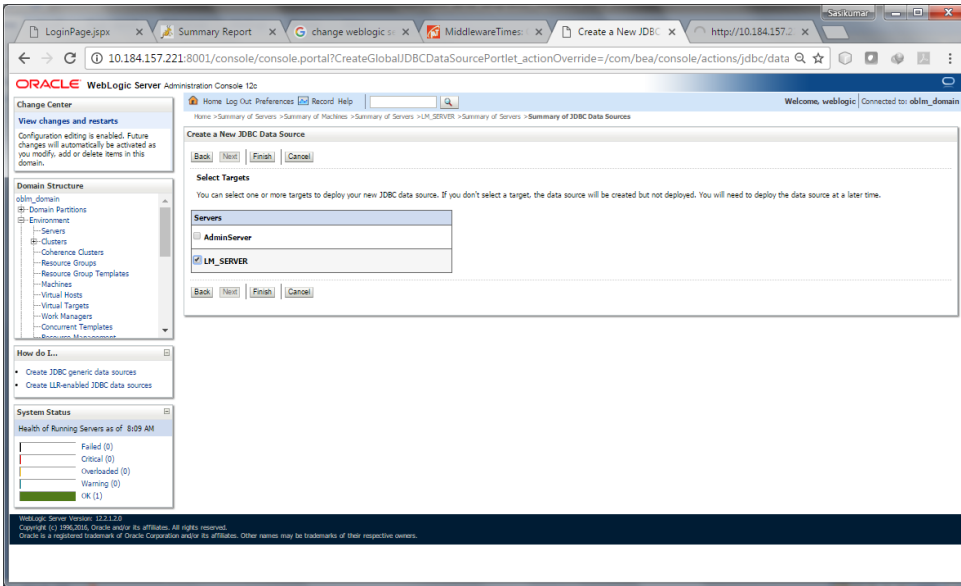
Database Name: **LMTESTDB**
Host Name: **10.184.157.221**
Port: **1521**
Database User Name: **LM01ITR1**
Password: **LMDB**



7. Test Database Connection by clicking the **Test Configuration** button.



8. Click **Next** and Choose the **Target Server** and Click **Finish** button.



9. Choose Database Driver as Oracle's Driver (Thin) for service Connections; Version: Any

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to obla_domain

Change Center

View changes and restarts

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

Domain Structure

- obla_domain
 - Domain Partitions
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Service Management

How do I...

- Create JDBC generic data sources
- Create URL-enabled JDBC data sources

System Status

Health of Running Servers as of 8:59 AM

Failed	(0)
Critical	(0)
Overloaded	(0)
Warning	(0)
OK	(1)

WebLogic Server Version 12.1.2.0.0
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Create a New JDBC Data Source

Back Next Finish Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

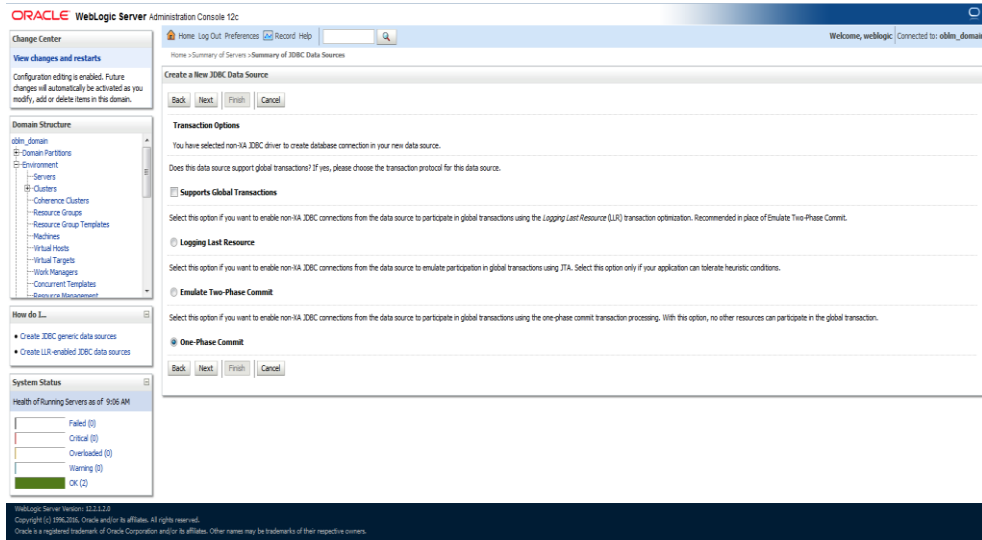
Database Type: Oracle

What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Oracle WebLogic Server.

Database Driver: *Oracle's Driver (Thin) for Service connections; Versions:Any

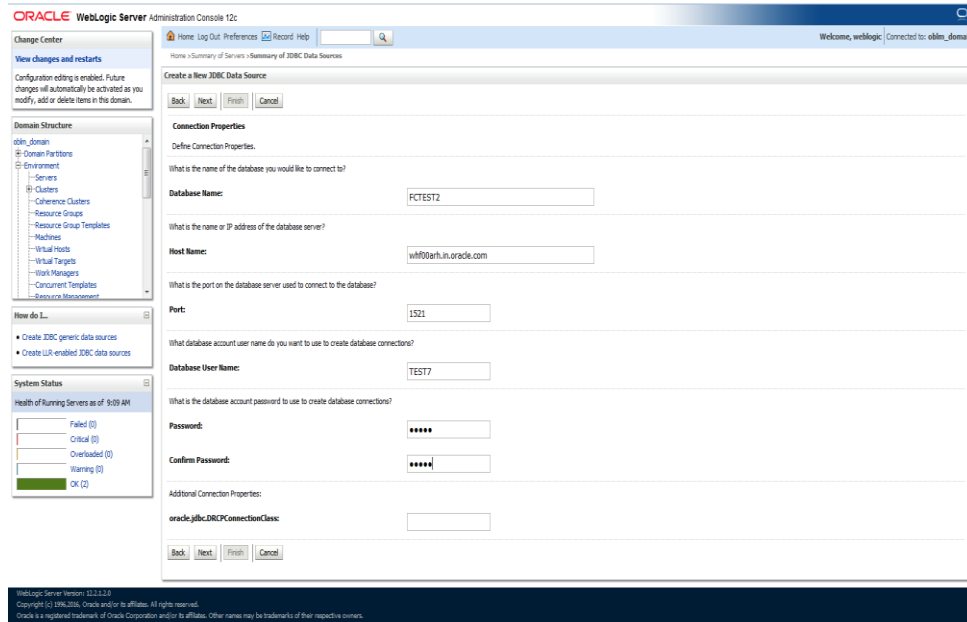
Back Next Finish Cancel

10. Un-check Supports global transactions

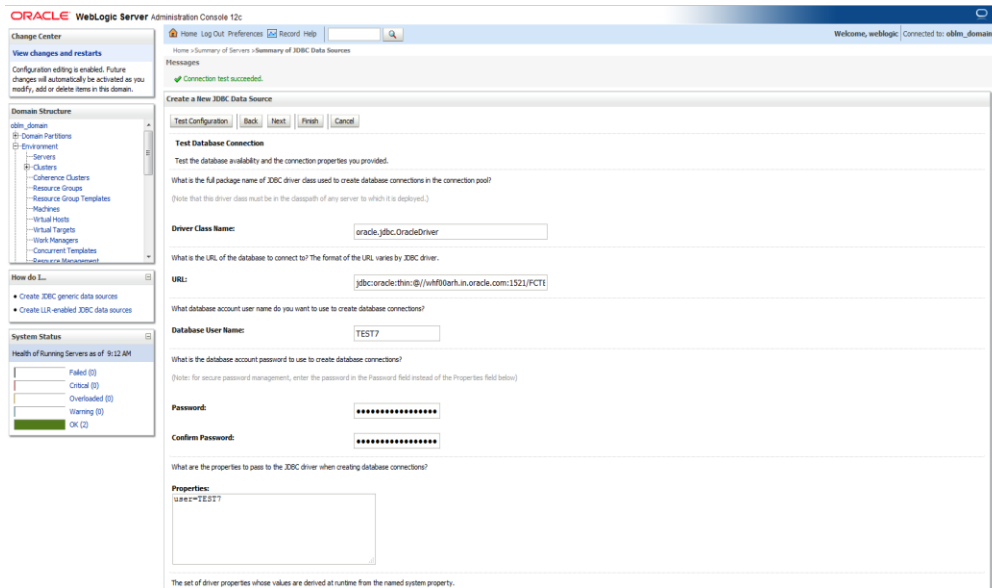


11. Give the Connection Properties, Example below

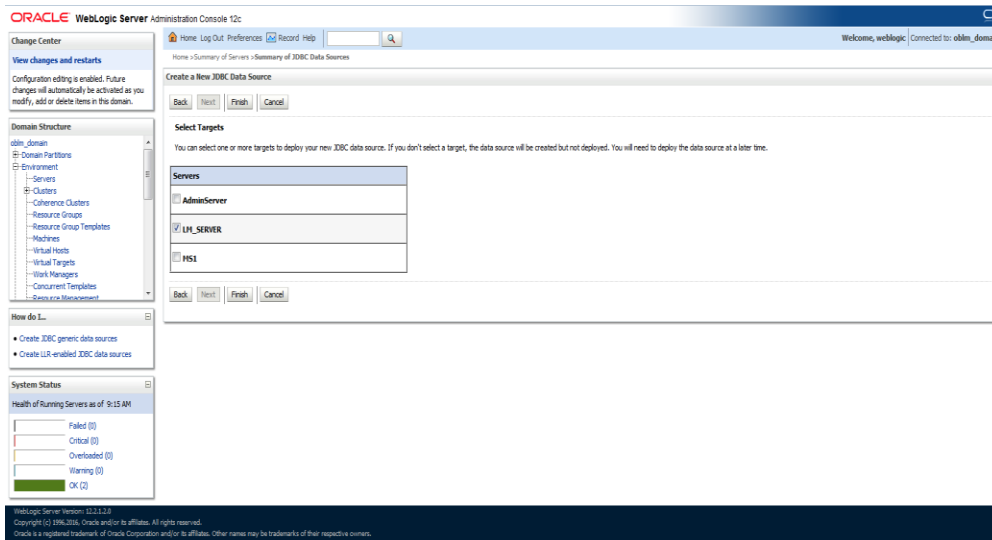
Database Name: **FCTEST2**
Host Name: **whf00arh.in.oracle.com**
Port: **1521**
Database User Name: **TEST7**
Password: **TEST7**

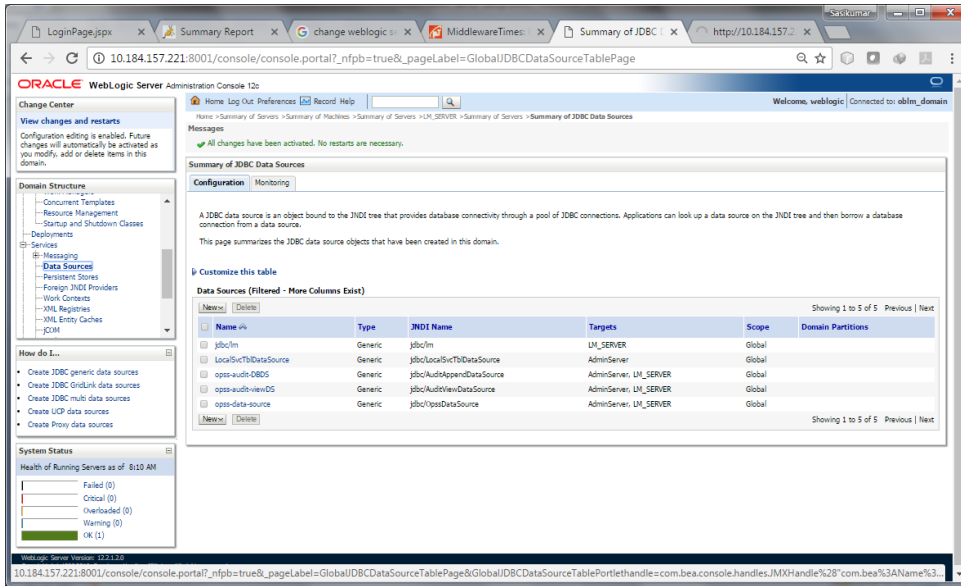


11. Test Database Connection by clicking the **Test Configuration** button.



12. Click **Next** and Choose the **Target Server** and Click **Finish** button.





Create FLEXCUBE DDA data source following the same steps mentioned above.

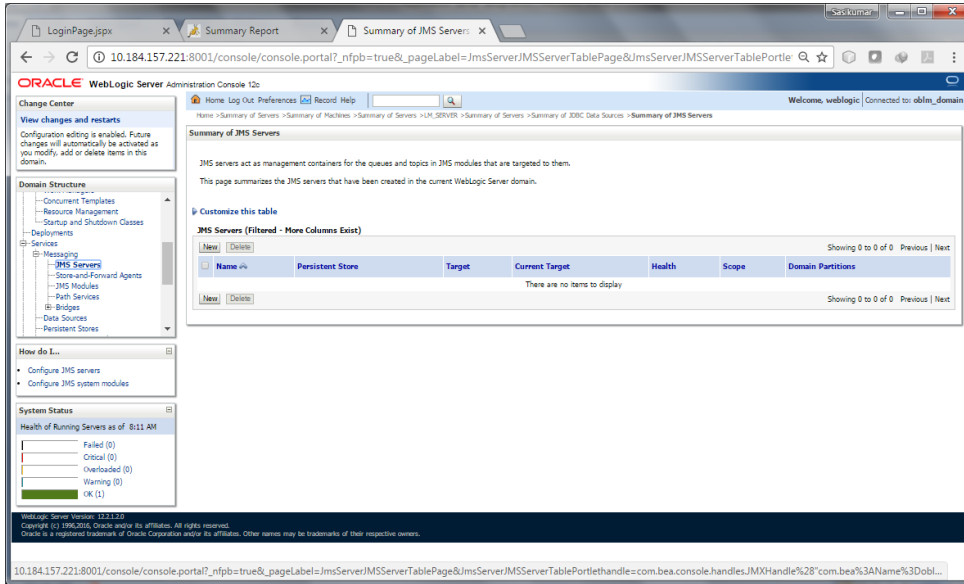
1. Create a new Data Source as mentioned in above section using below details.

Give the JDBC Data Source Properties

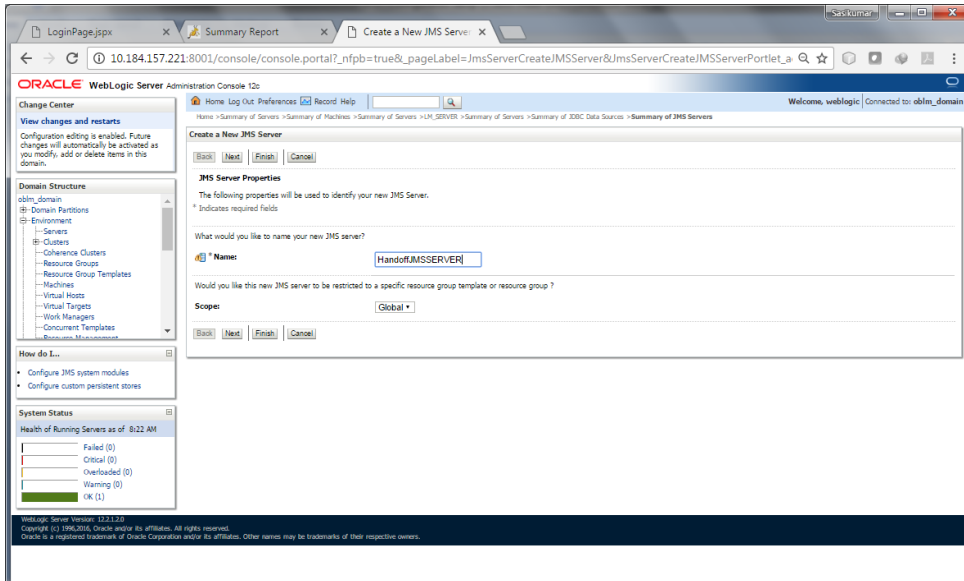
Name: **jdbc/fcjdevDS**
 Scope: **Global**
 JNDI Name: **jdbc/fcjdevDS**
 Database Type: **Oracle**

2.2.4 Create JMS Server

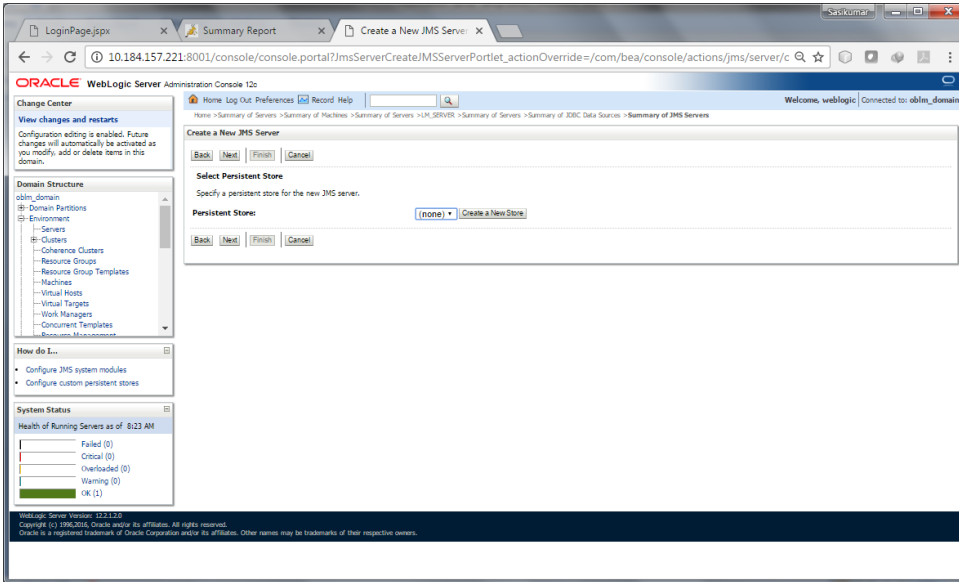
1. Create a New JMS Server



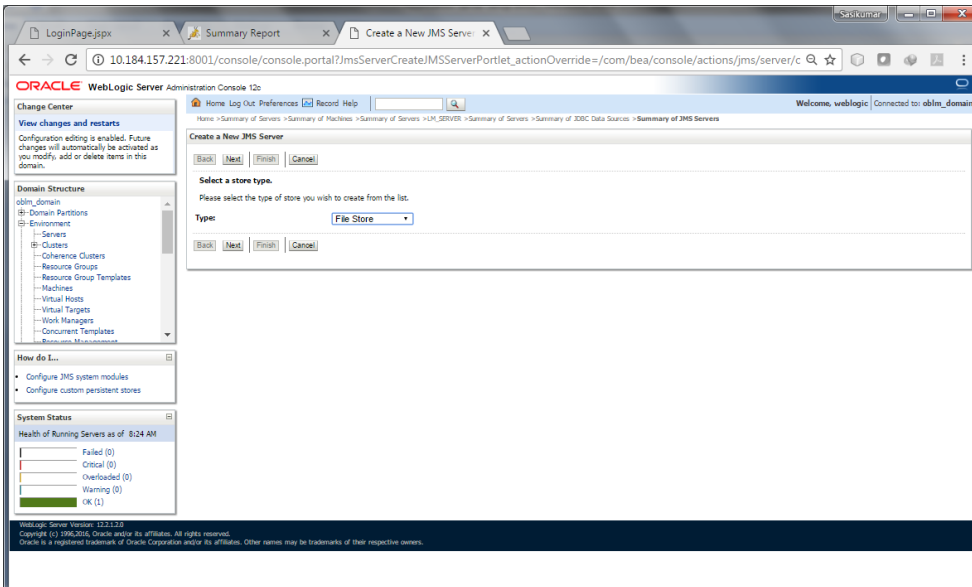
2. Give the JMS Server Properties as below



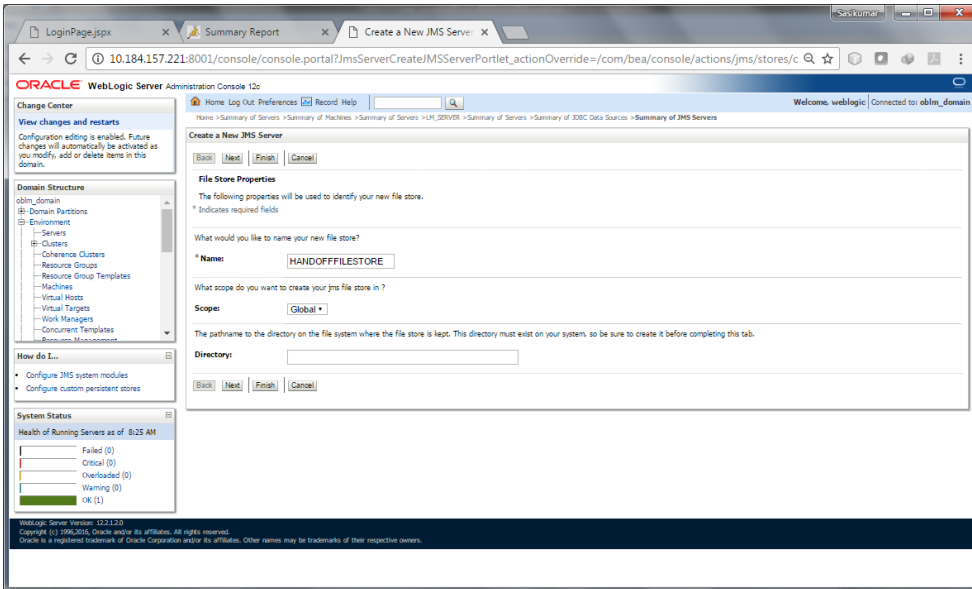
3. Create a New Persistent Store



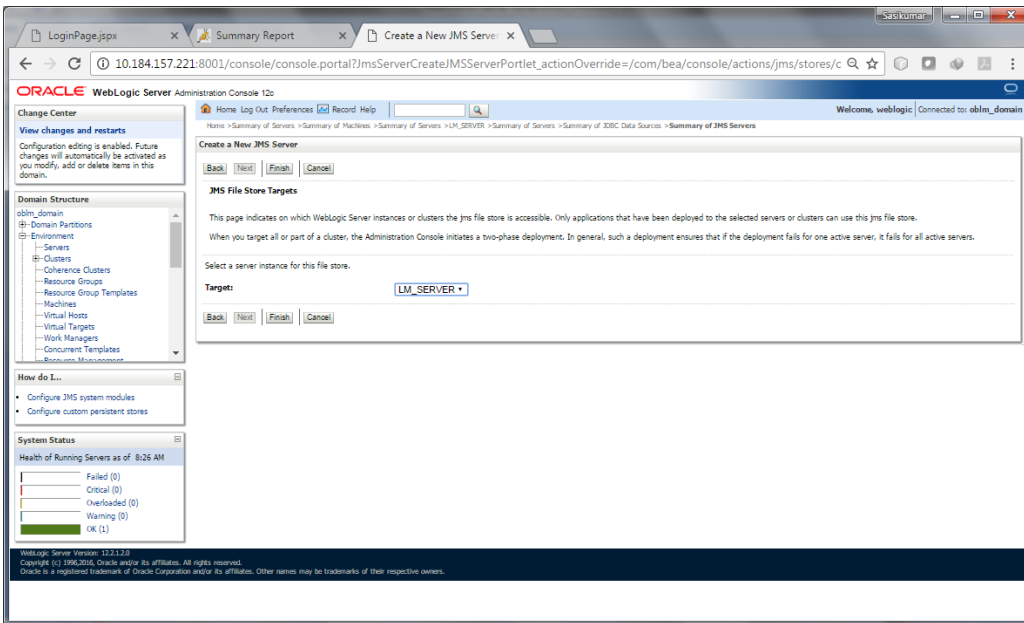
4. Choose File Store from the list



5. Set the File Store Properties as below



6. Choose the Target as the Server that we have created, Example: LM_SERVER and Click Finish



7. JMS Server is created

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the "Summary of JMS Servers" page. The page title is "Summary of JMS Servers" and it includes a breadcrumb trail: Home > Summary of JMS Servers > Summary of JMS Modules > HANDOFF3HQMODULE > Summary of JMS Servers > Summary of Services: JMS > Summary of JMS Servers > HANDOFF3QSERVER > Summary of JMS Servers.

The page contains the following text:

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

Below the text is a table titled "JMS Servers (Filtered - More Columns Exist)". The table has the following columns: Name, Persistent Store, Target, Current Target, Health, Scope, and Domain Partitions. There is one row of data:

Name	Persistent Store	Target	Current Target	Health	Scope	Domain Partitions
HANDOFF3QSERVER	HANDOFF3QSTORE	UI_SERVER	UI_SERVER		Global	

8. Create a New JMS Module

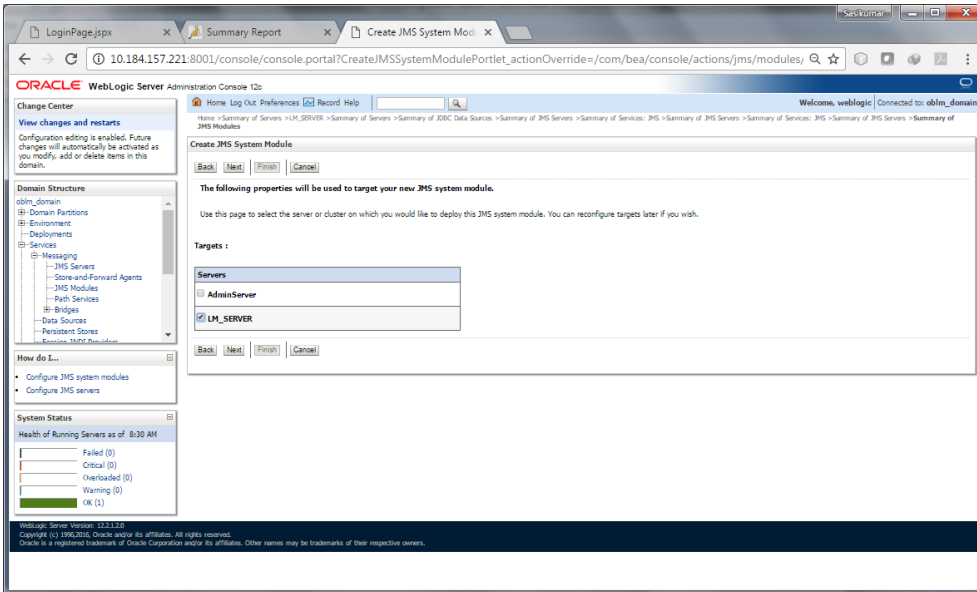
The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the "Summary of JMS Modules" page. The page title is "Summary of JMS Modules" and it includes a breadcrumb trail: Home > Summary of Servers > UI_SERVER > Summary of Servers > Summary of JDBC Data Sources > Summary of JMS Servers > Summary of Services: JMS > Summary of JMS Servers > Summary of JMS Modules > Summary of JMS Modules.

The page contains the following text:

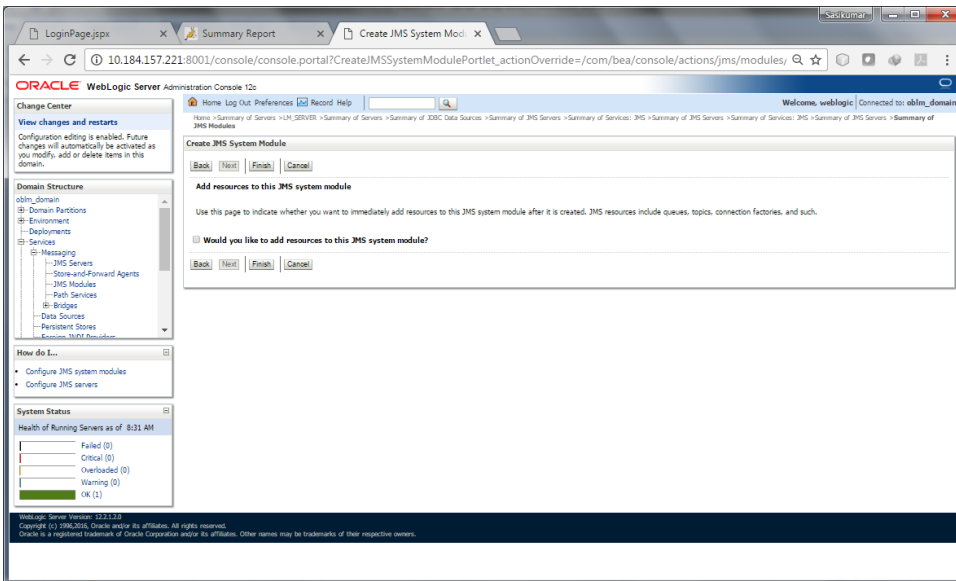
JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quotas, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources. This page summarizes the JMS system modules that have been created for this domain.

Below the text is a table titled "JMS Modules". The table has the following columns: Name, Type, Scope, and Domain Partitions. The table is empty, and the text "There are no items to display" is shown below the table.

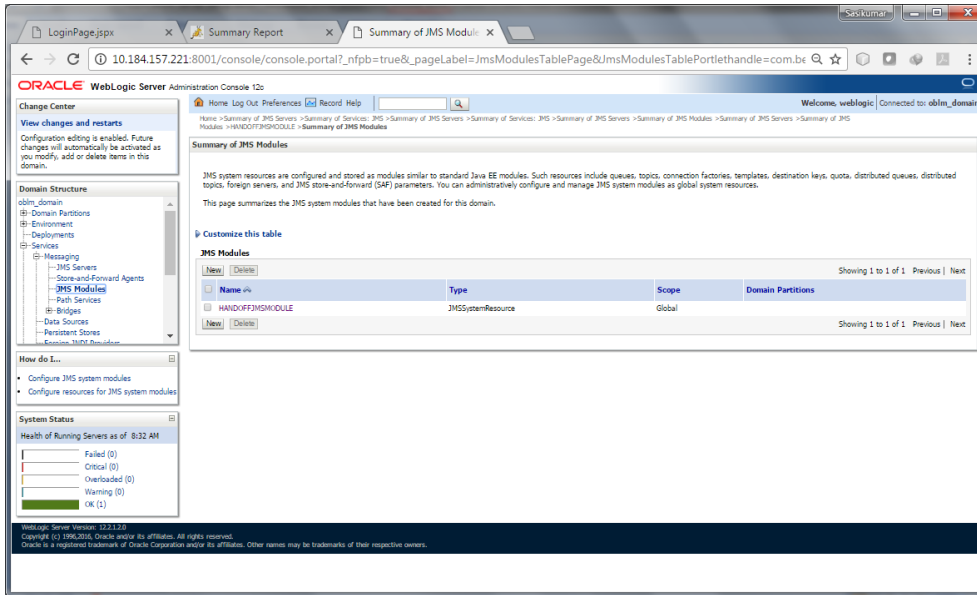
9. Choose the **Target Server**, Example: **LM_SERVER** and Click **Next**



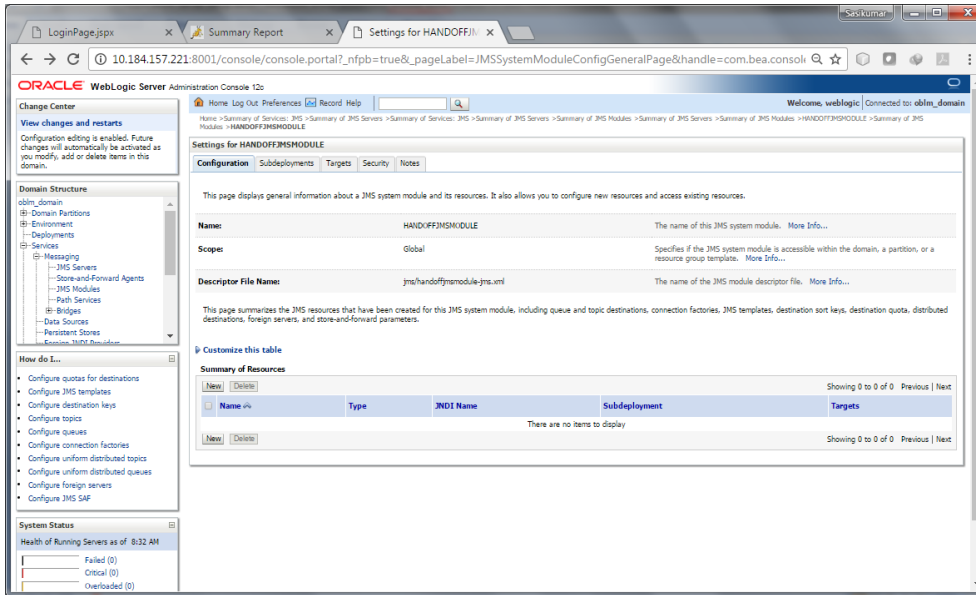
10. Click **Finish**



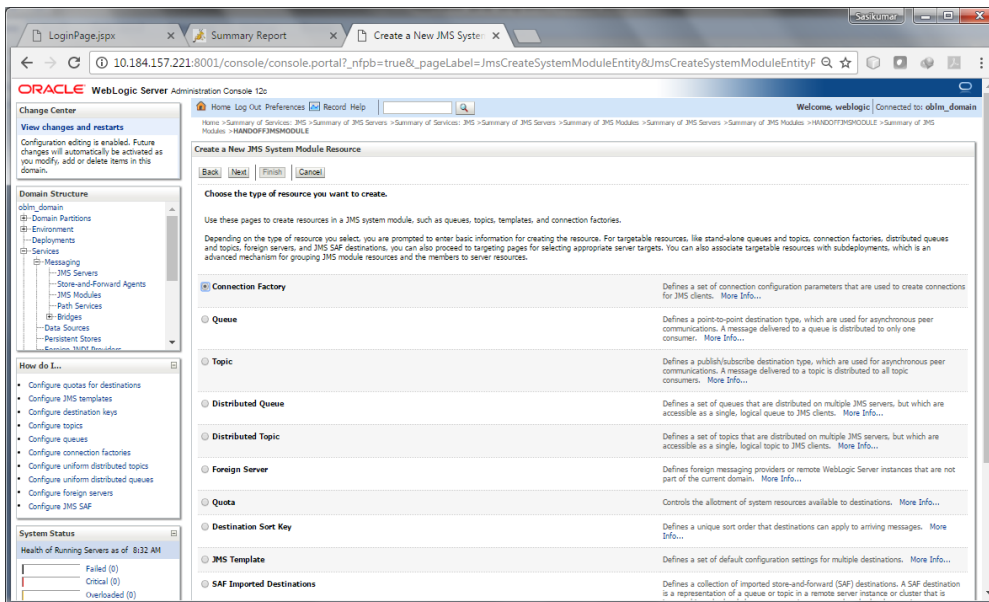
11. Click the **JMS Module** that we created just now



12. Create a **New Resource**



13. Create a Connection Factory

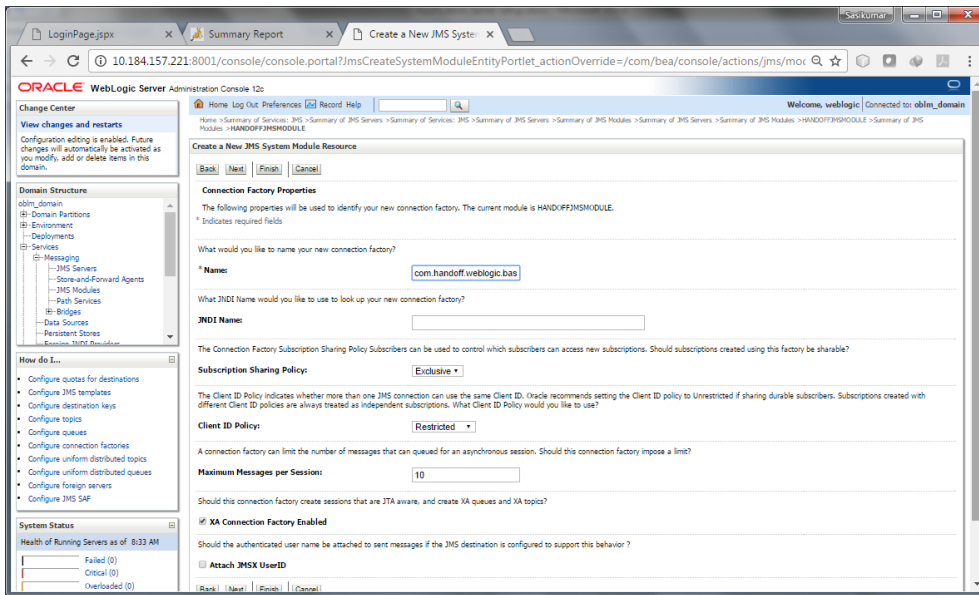


14. Set the Connection Factory Properties as Below

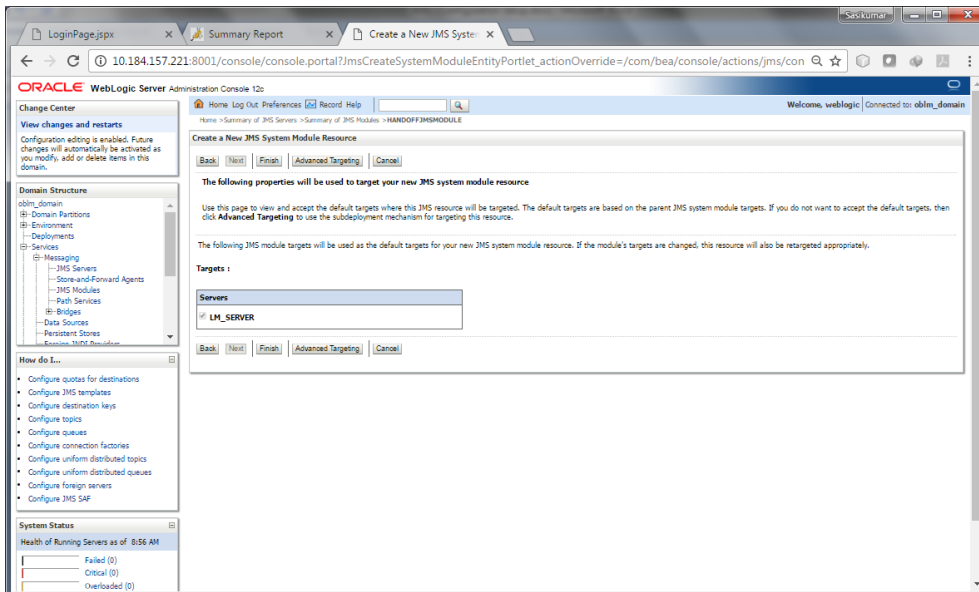
Name: **com.handoff.weblogic.base.cf**

JNDI Name: **com.handoff.weblogic.base.cf**

Remaining details give as below and Click **Next**



15. Choose the **Target Server**, Example: **LM_SERVER** and Click **Finish**



16. We can see the Connection Factory Created.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for HANDOFFJMSMODULE" and includes a "Summary of Resources" table. The table lists one resource: a Connection Factory with the name "com.handoff.weblogic.base.cf".

Name	Type	JNDI Name	Subdeployment	Targets
com.handoff.weblogic.base.cf	Connection Factory		Default Targeting	LI1_SERVER

17. Create a New Queue, Click New and Choose Queue

The screenshot shows the "Create a New JMS System Module Resource" wizard in the Oracle WebLogic Server Administration Console. The "Queue" option is selected under the "Choose the type of resource you want to create" section.

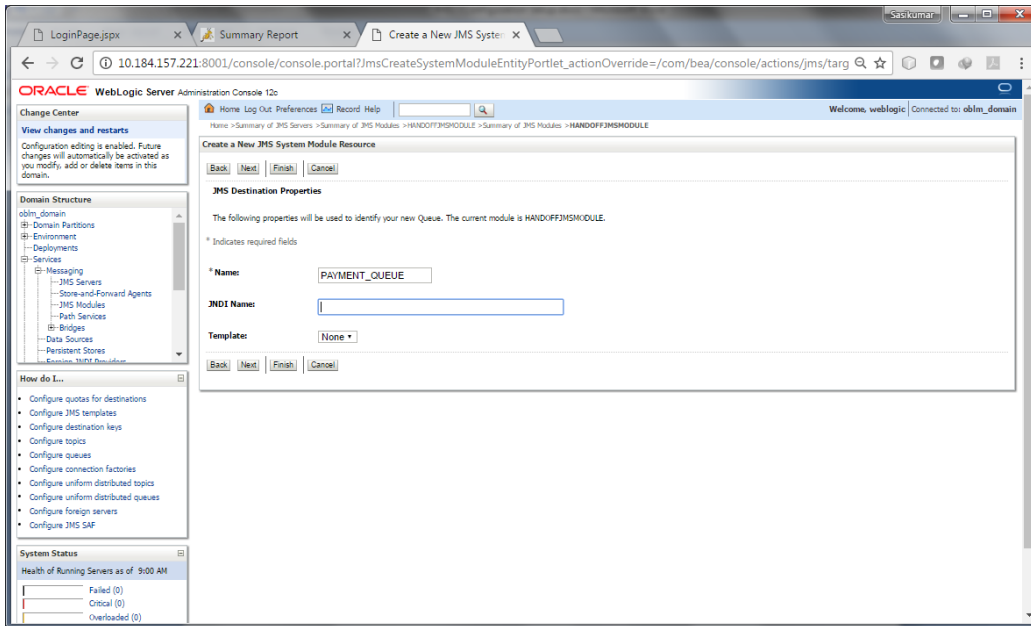
Choose the type of resource you want to create.

Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connection factories.

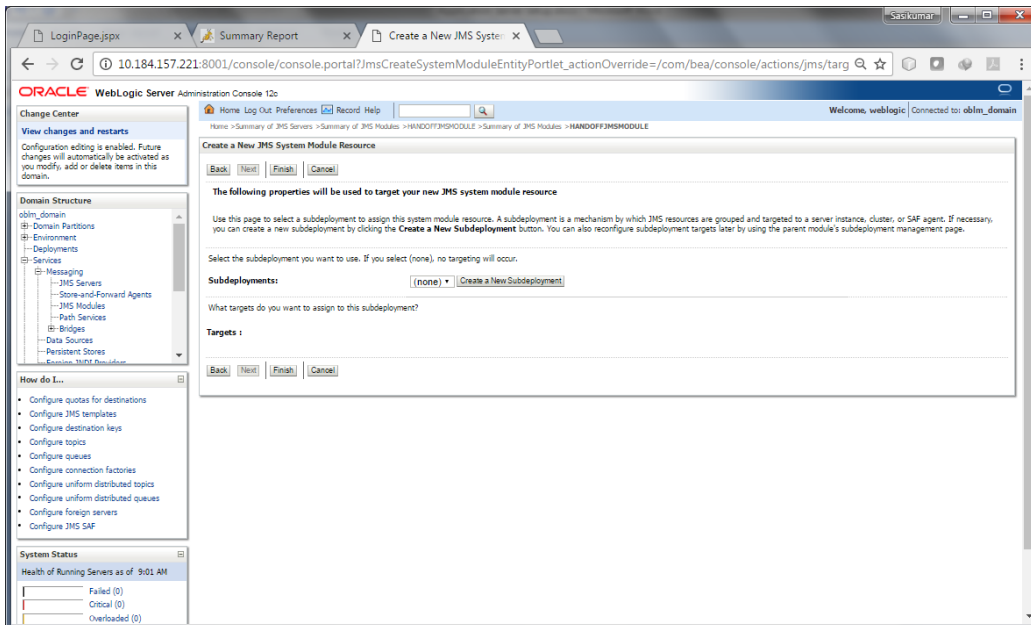
Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For targetable resources, like stand-alone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. You can also associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.

- Connection Factory
- Queue
- Topic
- Distributed Queue
- Distributed Topic
- Foreign Server
- Quota
- Destination Sort Key
- JMS Template
- SAF Imported Destinations

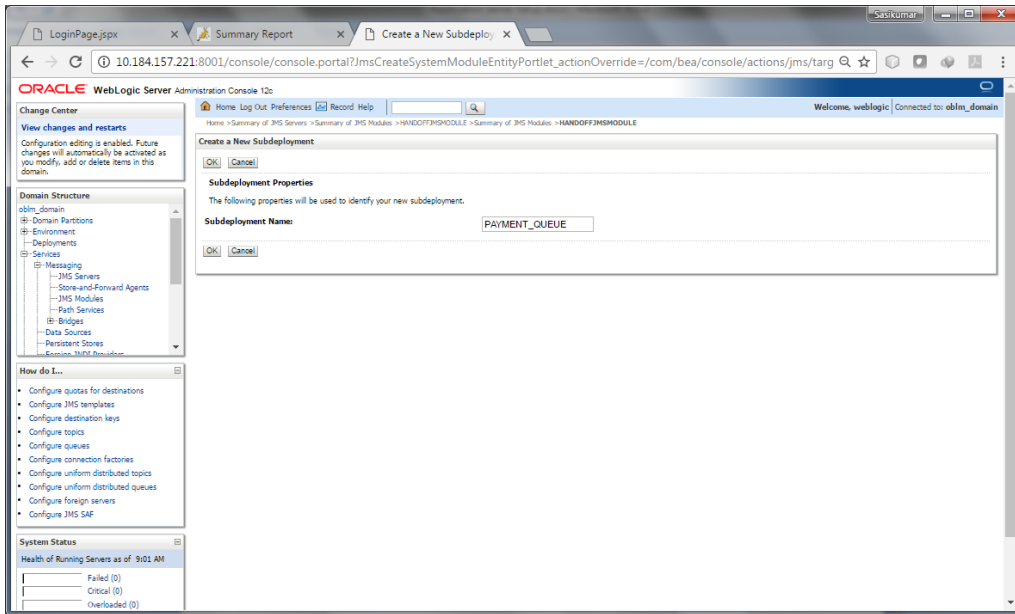
18. Give the Name as **PAYMENT_QUEUE**



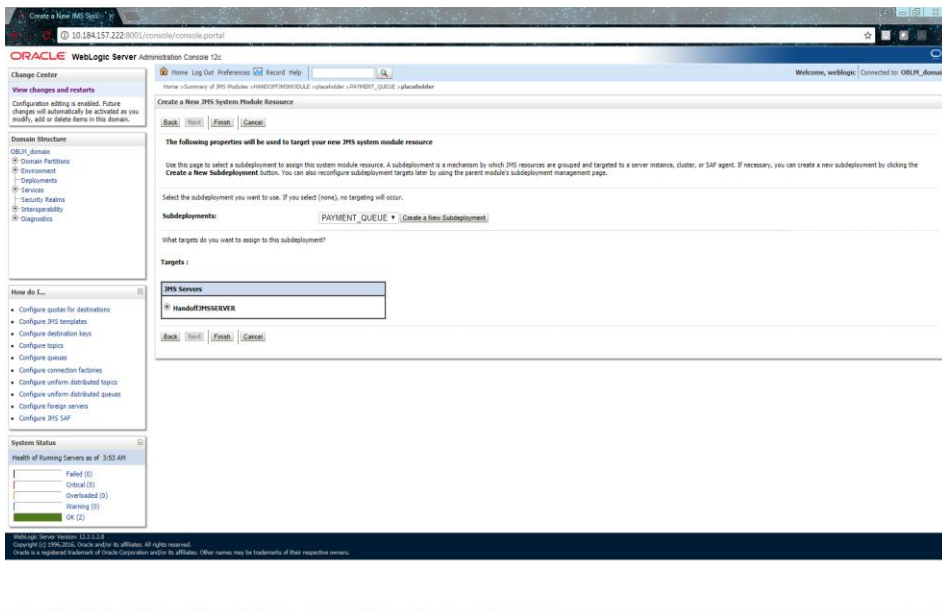
19. Create a New Sub-deployment



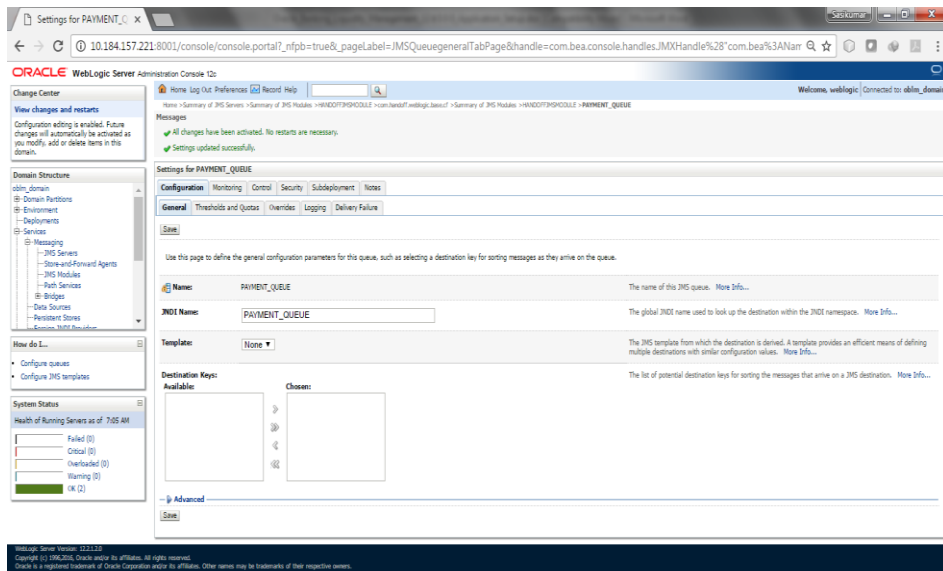
20. Set the **Sub-deployment Properties** as below and Click **Ok**



21. Choose the **Sub-deployment** and Select the **HandoffJMSSERVER** as Target and Click **Finish**

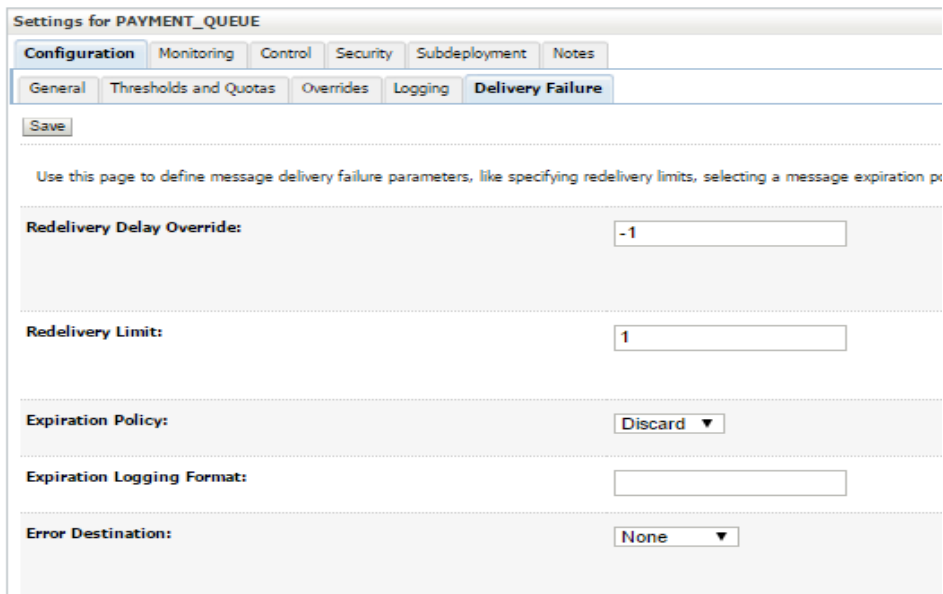


22. Set JNDI Name for the PAYMENT_QUEUE as PAYMENT_QUEUE



The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for PAYMENT_QUEUE" and has tabs for Configuration, Monitoring, Control, Security, Subdeployment, and Notes. The "Configuration" tab is active, and the "General" sub-tab is selected. The "Name" field is set to "PAYMENT_QUEUE". The "JNDI Name" field is also set to "PAYMENT_QUEUE". The "Template" is set to "None". The "Destination Key" section shows two columns: "Available" and "Chosen". The "Advanced" link is visible at the bottom of the configuration area.

23. Set Redelivery Limit to 1 under Delivery Failure tab of PAYMENT_QUEUE



The screenshot shows the "Settings for PAYMENT_QUEUE" interface with the "Delivery Failure" sub-tab selected. The "Redelivery Delay Override" is set to "-1". The "Redelivery Limit" is set to "1". The "Expiration Policy" is set to "Discard". The "Expiration Logging Format" is empty. The "Error Destination" is set to "None".

2.2.5 Build Liquidity Managements Executable Files

1. Edit HostConfig.properties file

Go to the below folder

("...\\HostWorkspace\\host12.2.1\\Common\\com.ofss.glm.config\\src\\com\\ofss\\glm\\config\\properties") of the OSDC Package and Open **HostConfig.properties** and edit the below values:

Protocol = http or https based on the protocol setting of the server

Host = Host Name or IP of the Server that is Listening Address

Port = Listening Port of the managed server (LM_SERVER)

****Note:** Create folder as mentioned in **LOG_PATH** variable

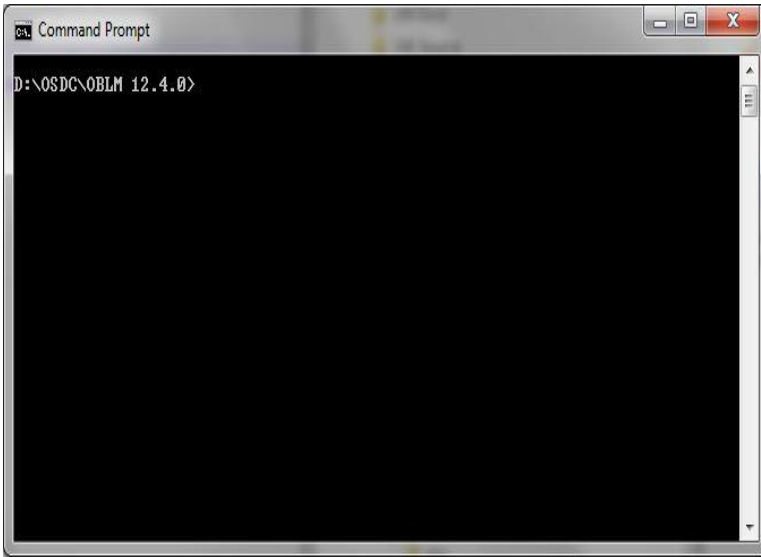
Folder:

D:\\OSDC\\OBLM 12.4\\HostWorkspace\\host12.2.1\\Common\\com.ofss.glm.config\\src\\com\\ofss\\glm\\config\\properties

File Name: HostConfig.properties

```
protocol=https
host = 10.184.157.222
port = 7004
appurl = /GLMServices/Proxies
DEBUG = Y
LOG_PATH=/scratch/oracle/LM_LOG/LMLog.log
crosetup_create = /CountrySetupApplicationServiceProxy/create
crosetup_read = /CountrySetupApplicationServiceProxy/fetch
crosetup_update = /CountrySetupApplicationServiceProxy/update
crosetup_delete = /CountrySetupApplicationServiceProxy/delete
crosetup_bulkupload = /CountrySetupApplicationServiceProxy/bulkUpload
crosetup_countrylist = /CountrySetupApplicationServiceProxy/fetchAllCountries
crosetup_regionlist = /CountrySetupApplicationServiceProxy/fetchAllRegions
crosetup_lmcountrylist = /CountrySetupApplicationServiceProxy/fetchCountriesCode
crossbordersetup_create = /CrossBorderSetupApplicationServiceProxy/create
crossbordersetup_read = /CrossBorderSetupApplicationServiceProxy/fetch
crossbordersetup_update = /CrossBorderSetupApplicationServiceProxy/update
crossbordersetup_delete = /CrossBorderSetupApplicationServiceProxy/delete
```

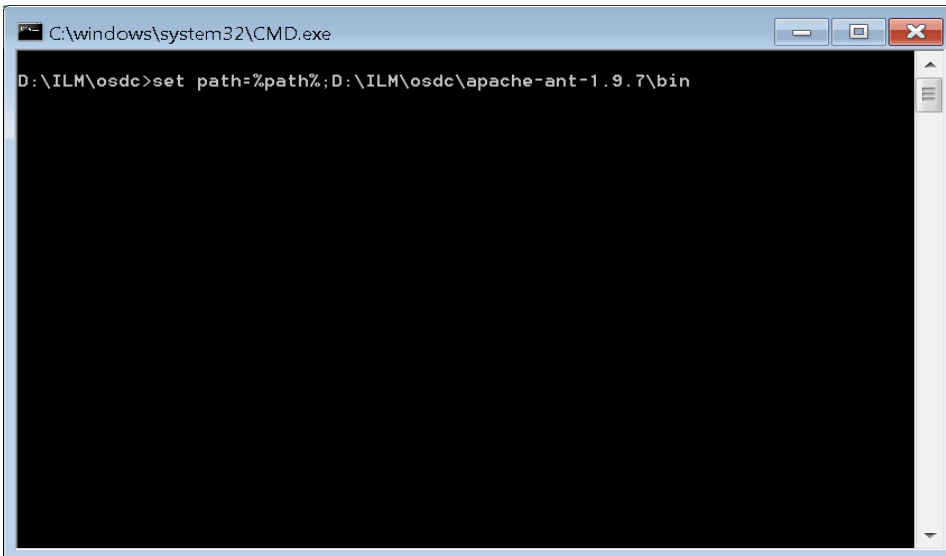
2. Open the Command prompt and Point it to the OSDC package location

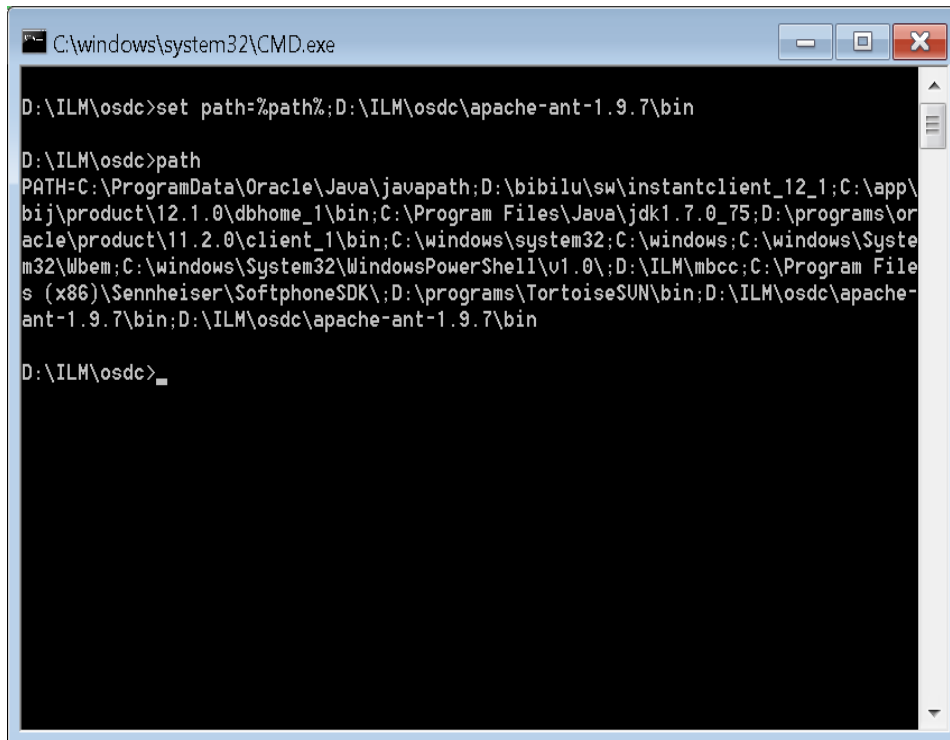


3. Add Path

Set the Ant path using the following Commands

set path=%path%;D:\ILM\osdc\apache-ant-1.9.7\bin





```
C:\windows\system32\CMD.exe

D:\ILM\osdc>set path=%path%;D:\ILM\osdc\apache-ant-1.9.7\bin

D:\ILM\osdc>path
PATH=C:\ProgramData\Oracle\Java\javapath;D:\bibilu\sw\instantclient_12_1;C:\app\
bij\product\12.1.0\dbhome_1\bin;C:\Program Files\Java\jdk1.7.0_75;D:\programs\or
acle\product\11.2.0\client_1\bin;C:\windows\system32;C:\windows;C:\windows\Syste
m32\Wbem;C:\windows\System32\WindowsPowerShell\v1.0\;D:\ILM\mbcc;C:\Program File
s (x86)\Sennheiser\SoftphoneSDK\;D:\programs\TortoiseSUN\bin;D:\ILM\osdc\apache-
ant-1.9.7\bin;D:\ILM\osdc\apache-ant-1.9.7\bin

D:\ILM\osdc>_
```

4. Enter the following command to build the Host side class files.

“ant -f build_host_jars.xml” and press **“Enter”**


```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
D:\OSDC\OBLM 12.4.0>ant -f build_host_jars.xml
```

```
C:\Windows\System32\cmd.exe
hibes\com.ofss.glm.module.ejb.flexcube.jar
build-iframe-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.flexcube.jar
build-dashboard-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.dashboard.jar
build-fileupload-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.fileupload.jar
build-reports-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.reports.jar
build-simulation-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.simulation.jar
build-SMS-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.SMS.jar
build-fc-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.fc.jar
build-Paymenthandoff-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.paymenthandoff.jar
build-liquiditygrp-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.liquiditygrp.jar
build-ecmy-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.ecmy.jar
build-structuremanagement-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.structuremanagement.jar
build-aveep-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.aveep.jar
build-batch-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.batch.jar
build-Pool-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.pool.jar
build-Eod-jar:
[Jar] Building jar: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.module.ejb.eod.jar
create-war:
[war] Building war: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.app.client.proxy.war
build-ear:
[ear] Building ear: D:\OSDC\OBLM 12.4.0\HostWorkspace\host12.2.1\build\arc
hibes\com.ofss.glm.ear
[echo] ear build successfully
copy: [copy] Copying 2 files to D:\OSDC\OBLM 12.4.0\UIReleasedArea\host
copyEar:
[copy] Copying 1 file to D:\OSDC\OBLM 12.4.0\UIReleasedArea\Deploy\host
BUILD SUCCESSFUL
Total time: 2 seconds
D:\OSDC\OBLM 12.4.0>
```

5. Enter the following command to build the UI side class files.

“ant -f buildUiJars.xml” and press “Enter”

```

C:\Windows\System32\cmd.exe
D:\OSDC\OBLM 12.4.0>ant -f buildUIJars.xml

```

```

C:\Windows\System32\cmd.exe
ui-view\lib
init-lib:
clean-lib:
build-jar: Building jar: D:\OSDC\OBLM 12.4.0\UIWorkspace\modules\SMB\com.ofss.g
lm.ui.taskflows.smb-accrual\com.ofss.glm.ui.taskflows.smb-accrual
-jar Copying 1 file to D:\OSDC\OBLM 12.4.0\UIWorkspace\main\com.ofss.glm.
ui-view\lib
init-lib:
clean-lib:
build-jar: Building jar: D:\OSDC\OBLM 12.4.0\UIWorkspace\modules\SMB\com.ofss.g
lm.ui.taskflows.smb-accrual\com.ofss.glm.ui.taskflows.smb-accrual
-jar Copying 1 file to D:\OSDC\OBLM 12.4.0\UIWorkspace\main\com.ofss.glm.
ui-view\lib
init-lib:
clean-lib:
build-jar: Building jar: D:\OSDC\OBLM 12.4.0\UIWorkspace\modules\Interest\Bulc
TaskFlows\com.ofss.glm.ui.taskflows.view.interest.setup\com.ofss.glm.
ui-view\lib Copying 1 file to D:\OSDC\OBLM 12.4.0\UIWorkspace\main\com.ofss.glm.
ui-view\lib
init-lib:
clean-lib:
build-jar: Building jar: D:\OSDC\OBLM 12.4.0\UIWorkspace\modules\Setup\com.ofss
.glm.ui.taskflows.setup\deploy\com.ofss.glm.ui.taskflows.setup.jar
-jar Copying 1 file to D:\OSDC\OBLM 12.4.0\UIWorkspace\main\com.ofss.glm.
ui-view\lib
init-lib:
clean-lib:
build-jar: Building jar: D:\OSDC\OBLM 12.4.0\UIWorkspace\modules\Batch\com.ofss
.glm.ui.taskflows.batch.reverse\com.ofss.glm.ui.taskflows.batch.reverse
-jar Copying 1 file to D:\OSDC\OBLM 12.4.0\UIWorkspace\main\com.ofss.glm.
ui-view\lib
init-lib:
clean-lib:
create-war: Building war: D:\OSDC\OBLM 12.4.0\UIWorkspace\main\com.ofss.glm.ui.v
iew\deploy\webapp1.war
clean-ads-loc:
build-ads-loc:
ljar: Building MANIFEST-only jar: D:\OSDC\OBLM 12.4.0\lib\adf-loc.jar
build-task: Building ear: D:\OSDC\OBLM 12.4.0\IRe leasedArea\Deploy\ui-buildScri
pt\GLM\lib\ads-loc
lwarn: Warning: selected ear files include a META-INF/application.xml which
will be ignored. Please use <appxml> attribute to ear task?
lcopy: ear build successfully
lcopy: lib jars created
BUILD SUCCESSFUL
Total time: 6 seconds
D:\OSDC\OBLM 12.4.0>

```

2.2.6 Deploy Liquidity Management Executable Files

NOTE : If Oracle Fusion Middleware 12c Infrastructure (Example: Weblogic Server) is installed and any domain is available in local system, deployment can be done using the script see section 2.2.6.1 else Manual Deployment can be done see section 2.2.6.2.

2.2.6.1 Deployment using Scripts

1. Change the Following values in **Build.properties** file under the OSDC source

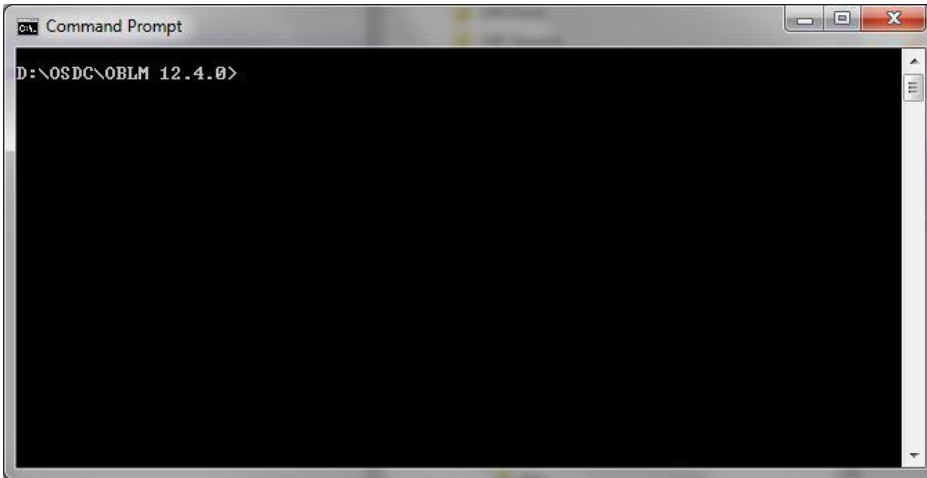
```
1 #Wed Apr 08 12:14:57 IST 2017
2
3 install.dir=C:\Oracle\Middleware\Oracle_Home
4 domain.path=\scratch\Middleware\Oracle_Home\user_projects\domains\oblm_domain
5 domain.name=OBLM_domain
6 host=10.184.157.221
7 port=8005
8
9 wls.ui.url=t3://10.184.157.221:8001
10 wls.ui.server.name=LM_SERVER
11 wls.ui.deploy.name=AAGLMSHELL-1
12 wls.ui.userName=weblogic
13 wls.ui.password=weblogic123
14 wls.ui.deploy.source=UIReleasedArea/Deploy/ui/buildScript/GLMSHELL.ear
15
16 wls.host.url=t3://10.184.157.221:8001
17 wls.host.server.name=LM_SERVER
18 wls.host.deploy.name=com.ofss.glm-1
19 wls.host.userName=weblogic
20 wls.host.password=weblogic123
21 wls.host.deploy.source=UIReleasedArea/Deploy/host/com.ofss.glm.ear
22
23
```

Use the following details:

- i. **install.dir**= Point to it to the weblogic home folder in the local system. For Example: "C:\Oracle\Middleware\Oracle_Home". (Change it to the format as shown in the figure)
- ii. **domain.path**= Point it to the weblogic domain folder created for the application (*i.e.* *oblm_domain*). (Change it to the format as shown in the figure)
- iii. **domain.name**= Enter the name of weblogic domain created in the local system. Leave it blank if no domain exists.
- iv. **wls.ui.url**= Enter URL of the Weblogic Console in the following format **t3://<ip_address>:<admin_server_port_no>**
- v. **wls.ui.username**= Enter the username of the Weblogic Console
- vi. **wls.ui.password**= Enter the password of the Weblogic Console
- vii. **wls.host.url**= Same as wls.ui.url
- viii. **wls.host.username**= Same as wls.ui.username
- ix. **wls.host.password**= Same as wls.ui.password

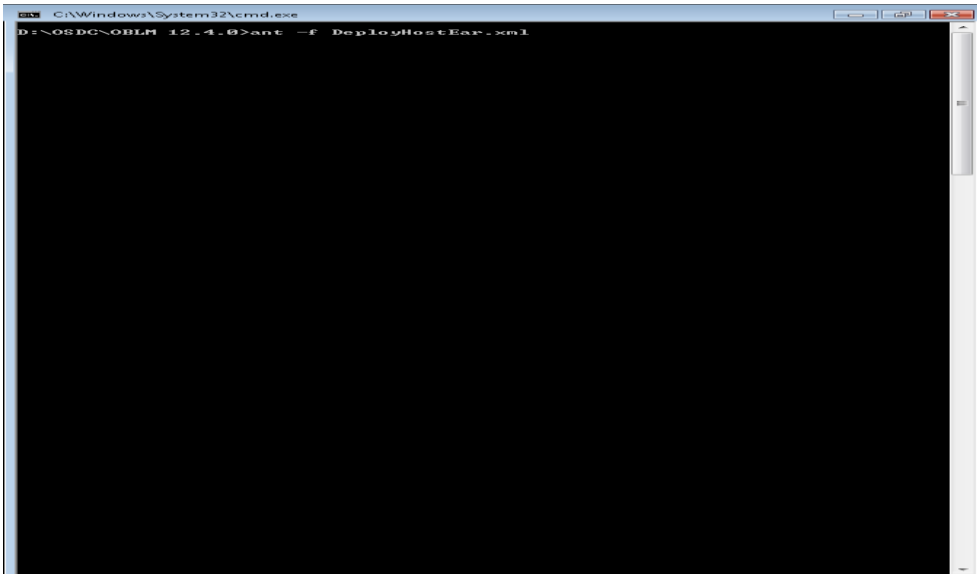
Define remaining properties as mentioned in above screen shot.

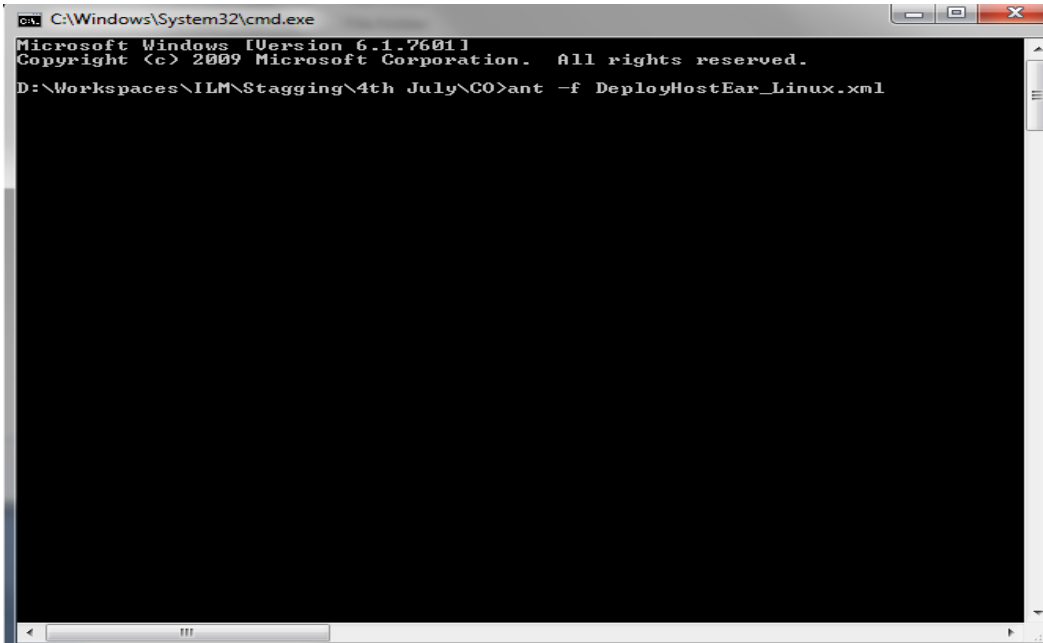
2. Open the Command prompt and Point it to the OSDC package location



3. Enter the following command to deploy the Host EAR file.

"ant -f DeployHostEar.xml" and press "Enter" (Windows System)

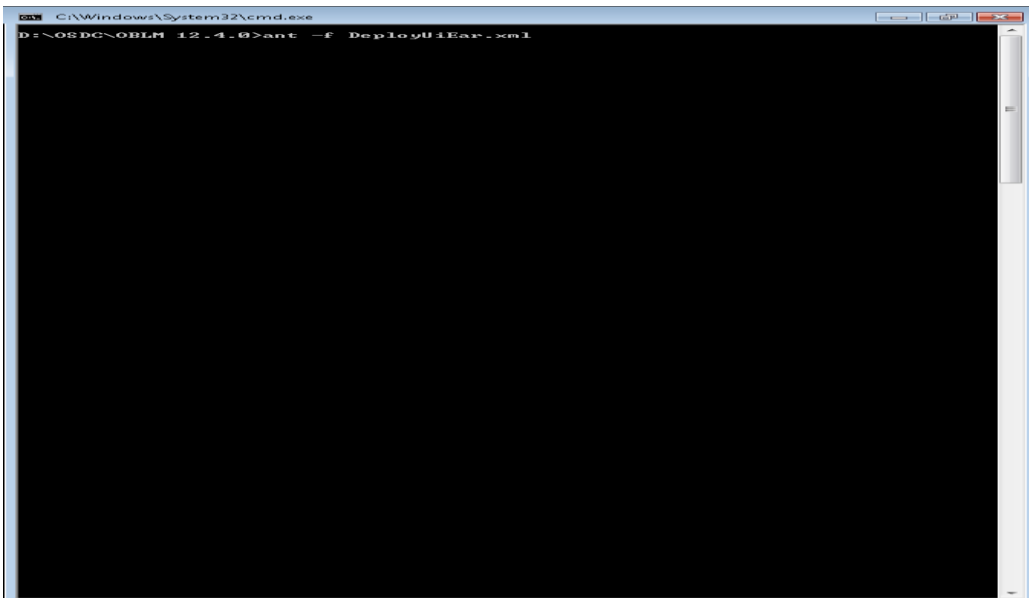




```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
D:\Workspaces\ILM\Stagging\4th July\CO>ant -f DeployHostEar_Linux.xml
```

4. Enter the following command to deploy the UI EAR file.

“ant -f DeployUIEar.xml” and press “Enter” (Windows System)



```
C:\Windows\System32\cmd.exe
D:\OSDC\OBLM 12.4.0>ant -f DeployUIEar.xml
```

```

Unknown Source>
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at java.io.ObjectStreamClass.invokeWriteObject(ObjectStreamClass.java:1028)
    at java.io.ObjectOutputStream.writeSerialData(ObjectOutputStream.java:1496)
    at java.io.ObjectOutputStream.writeOrdinaryObject(ObjectOutputStream.java:1432)
    at java.io.ObjectOutputStream.writeObject(ObjectOutputStream.java:1174)
    at java.io.ObjectOutputStream.defaultWriteFields(ObjectOutputStream.java:1548)
    at java.io.ObjectOutputStream.writeSerialData(ObjectOutputStream.java:1509)
    at java.io.ObjectOutputStream.writeOrdinaryObject(ObjectOutputStream.java:1432)
    at java.io.ObjectOutputStream.writeObject(ObjectOutputStream.java:1174)
    at java.io.ObjectOutputStream.writeArrayObject(ObjectOutputStream.java:1378)
    at java.io.ObjectOutputStream.writeObject(ObjectOutputStream.java:1348)
    at weblogic.rjvm.MsgAbbrevOutputStream.writeObject(MsgAbbrevOutputStream.java:664)
    at weblogic.utils.io.ChunkedObjectOutputStream.writeObject(ChunkedObjectOutputStream.java:622)
    at javax.management.remote.rmi.RMIConnectionImpl.invoke(Unknown Source)
    at weblogic.rmi.internal.BasicServerRef.invoke(BasicServerRef.java:646)
    at weblogic.rmi.internal.BasicServerRef$2.run(BasicServerRef.java:574)
    at weblogic.security.acl.internal.AuthenticatedSubject.doAs(AuthenticatedSubject.java:368)
    at weblogic.security.service.SecurityManager.runAs(SecurityManager.java:163)
    at weblogic.rmi.internal.BasicServerRef.handleRequest(BasicServerRef.java:531)
    at weblogic.rmi.internal.wls.WLSExecuteRequest.run(WLSExecuteRequest.java:138)
    at weblogic.invocation.ComponentInvocationContextManager.executeComponentInvocationContext(ComponentInvocationContextManager.java:348)
    at weblogic.invocation.ComponentInvocationContextManager.executeComponentInvocationContext(ComponentInvocationContextManager.java:339)
    at weblogic.work.LivePartitionUtility.doRunWorkUnderContext(LivePartitionUtility.java:54)
    at weblogic.work.PartitionUtility.runWorkUnderContext(LivePartitionUtility.java:41)
    at weblogic.work.SelfTuningWorkManagerImpl.runWorkUnderContext(SelfTuningWorkManagerImpl.java:642)
    at weblogic.work.ExecuteThread.execute(ExecuteThread.java:406)
    at weblogic.work.ExecuteThread.run(ExecuteThread.java:346)
    Target Assignments:
    + ANGLMSHell-1 MS_T1R1
    [ServerConnectionImpl.close():3541] : Closing DM connection
    [ServerConnectionImpl.close():3741] : Unregistered all listeners
    [ServerConnectionImpl.closeJMK():3941] : Closed JMK connection
    [ServerConnectionImpl.closeJMK():4061] : Closed Runtime JMK connection
    [ServerConnectionImpl.closeJMK():4181] : Closed Edit JMK connection
    BUILD SUCCESSFUL
    Total time: 4 seconds
D:\OSDC\OBLM 12.4.0>

```

[Note: If user is having Linux system use the following command]

“ant -f DeployUiEar_Linux.xml” and press “Enter” (Linux System)

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

D:\Workspaces\ILM\Stagging\4th July\CO>ant -f DeployUiEar_Linux.xml

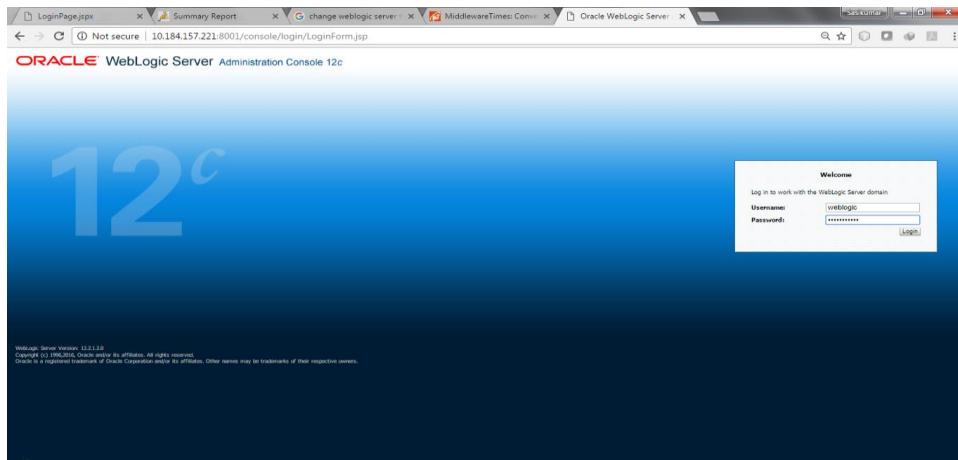
```

2.2.6.2 Manual Deployment:

For Manual Deployment, Ear (Enterprise Application aRchive) file can be deployed either from Local Machine or from server where Weblogic Server is installed, In case if deployment needs to be done from server then use FTP/SFTP client for Windows in order to move the Ear file to the server and do the deployment as given below. Suggested Software for FTP/SFTP client for Windows: **Winscp**

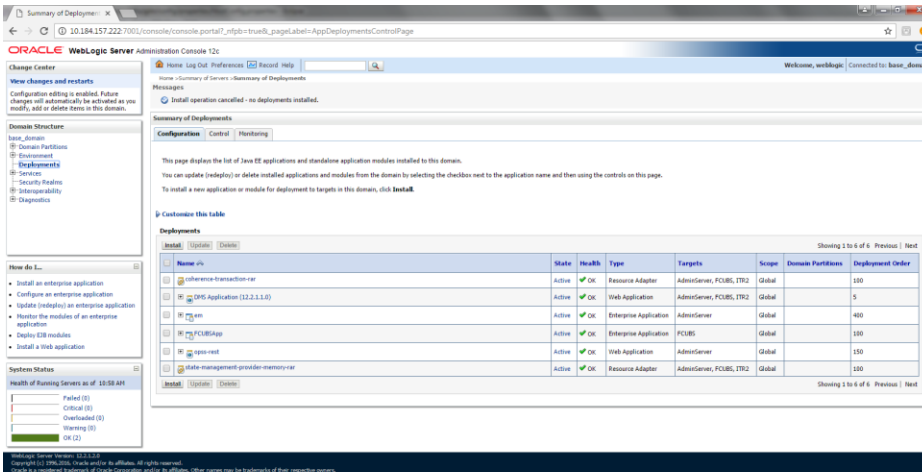
2.2.6.2.1 UI EAR Deployment

1. Give the credential in the console page that you have set in Administrator Account screen.

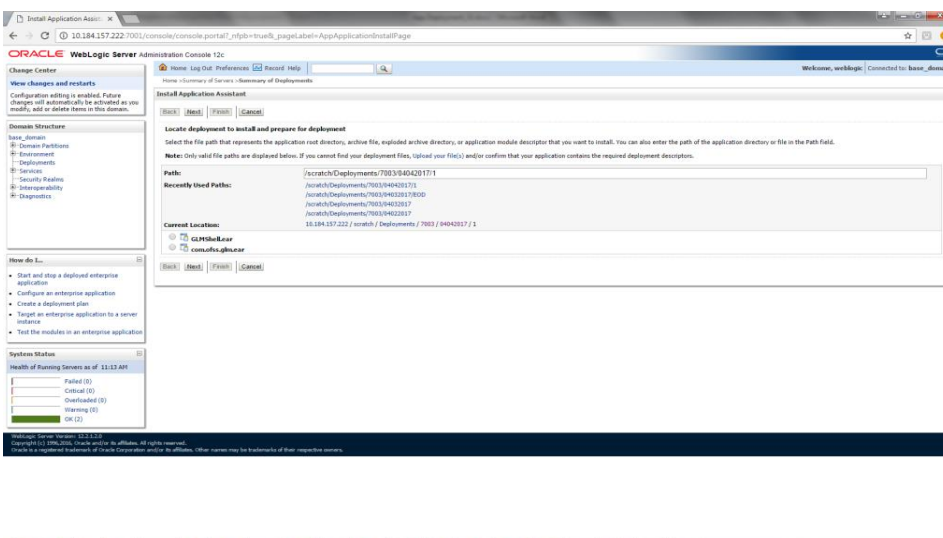


2. Now we can see home screen. In home screen in the left side you will find Domain Structure column.

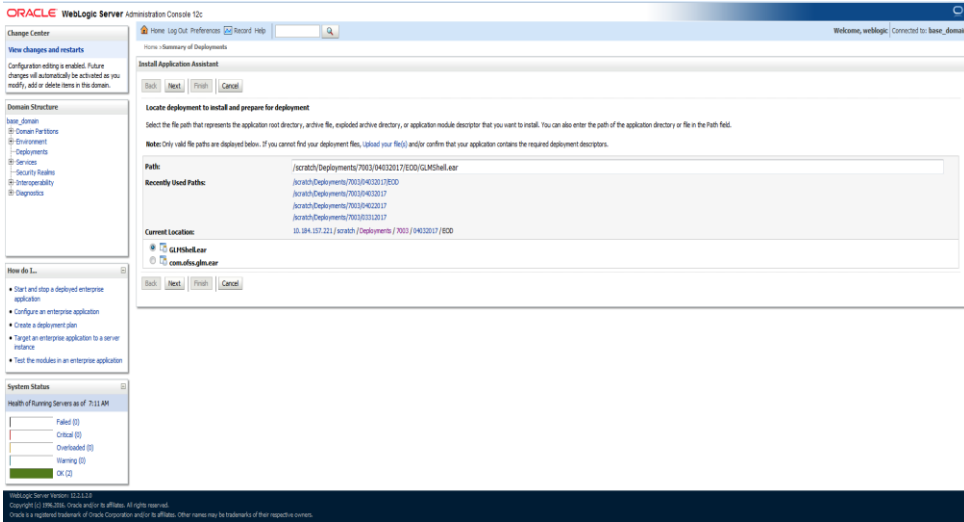
Click on **Deployments**.



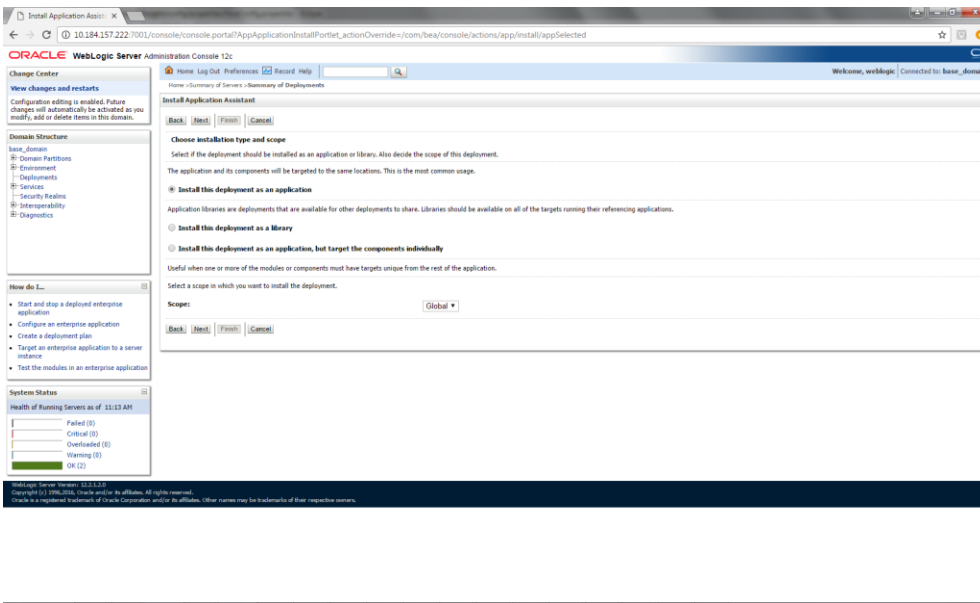
3. Click on **Install** and go to the Drive Location where the EAR files are kept.



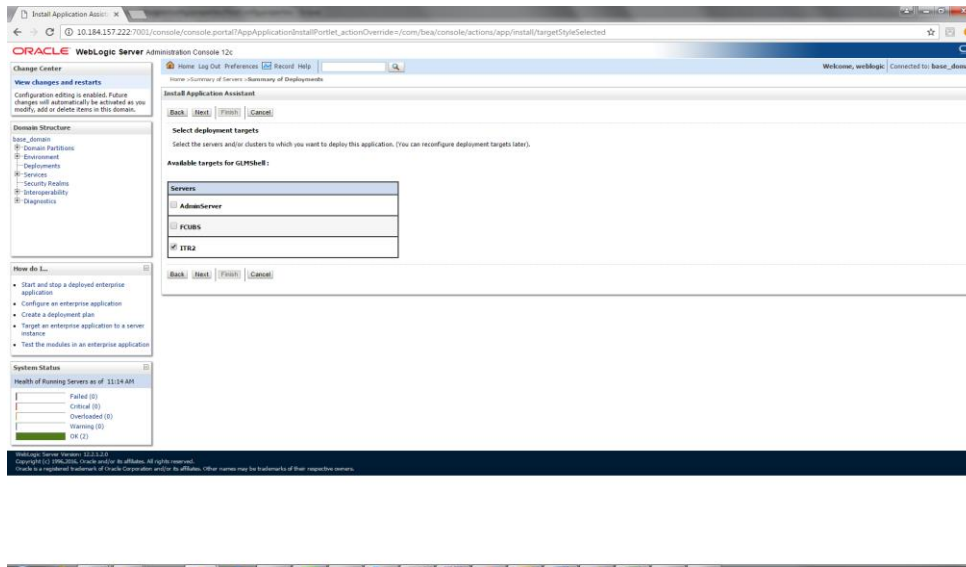
4. Select the UI EAR File **GLMShell.ear** and click on Next



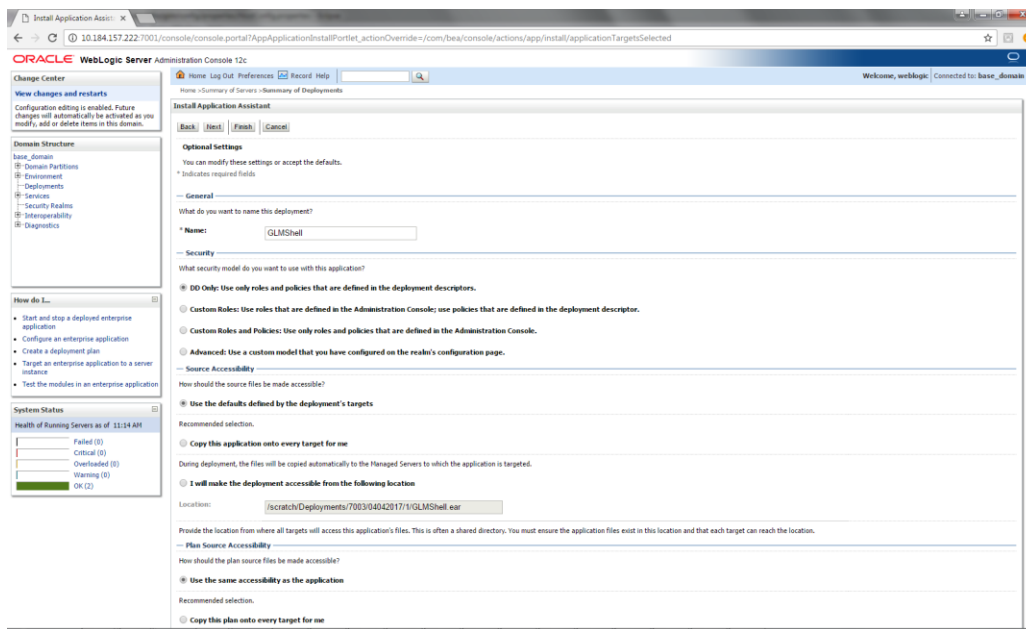
5. Click on Next



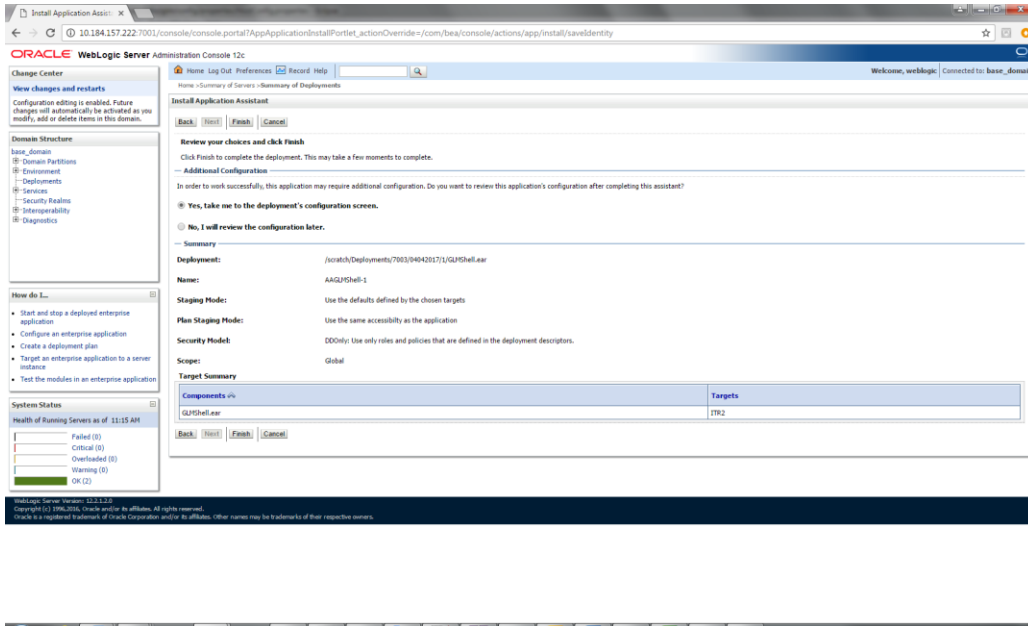
6. Select the target Server For example: ITR2



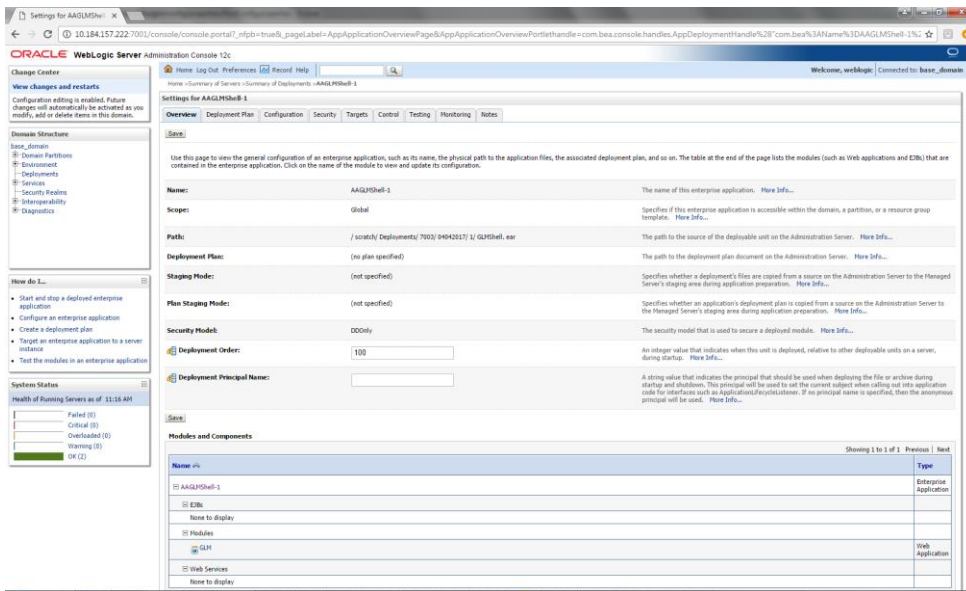
7. Select Name for the deployment file For Example: "GLMShell" and click on Next



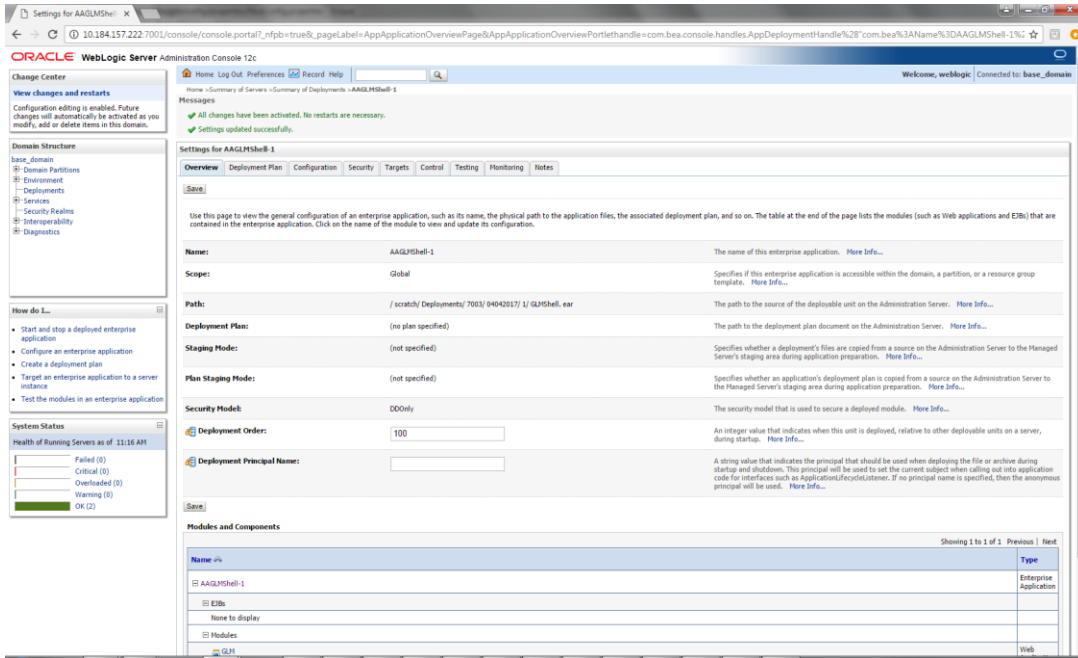
8. Click on **Finish**.



9. Click on **Save**

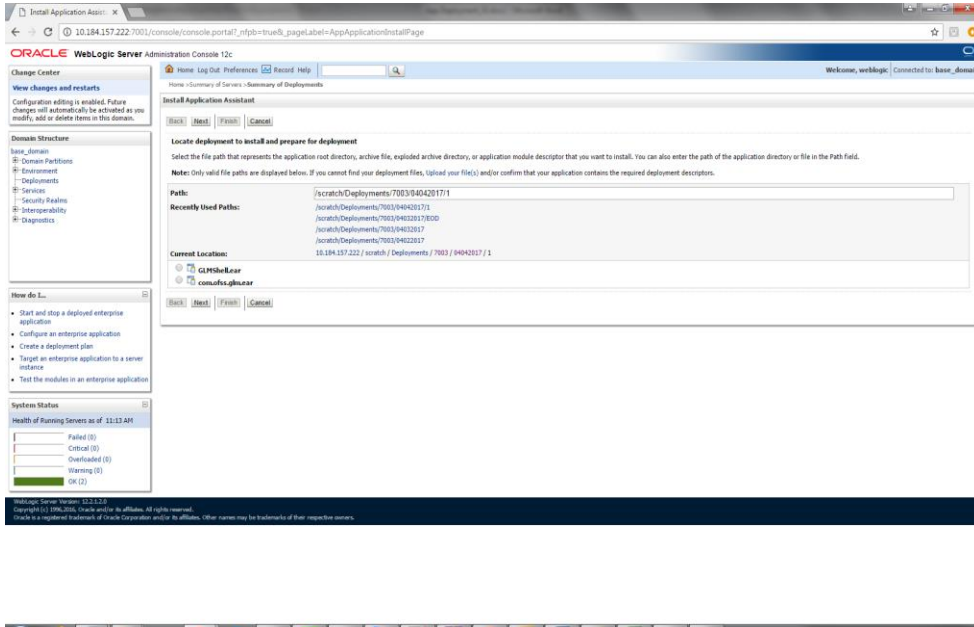


10. After Clicking **Save** the Following Screen should appear.

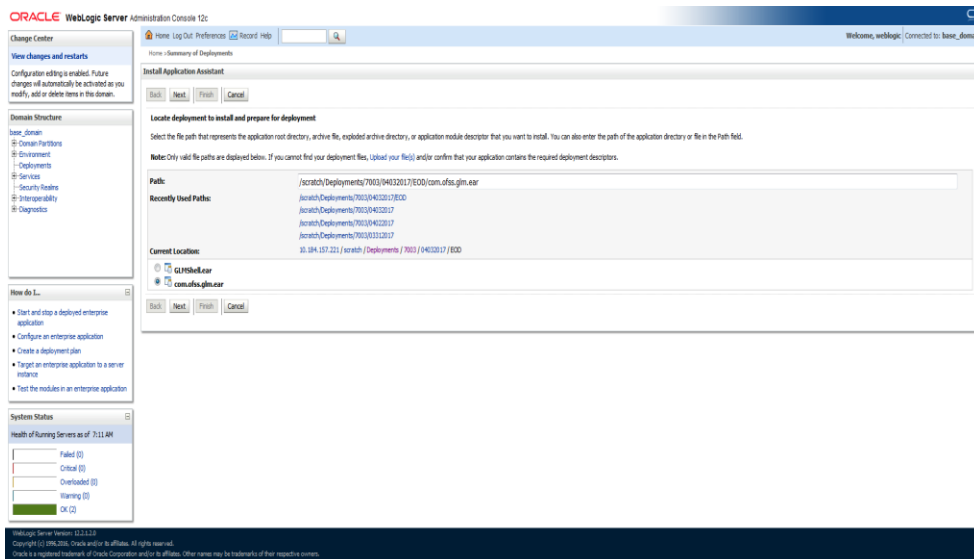


2.2.6.2.2 HOST EAR Deployment

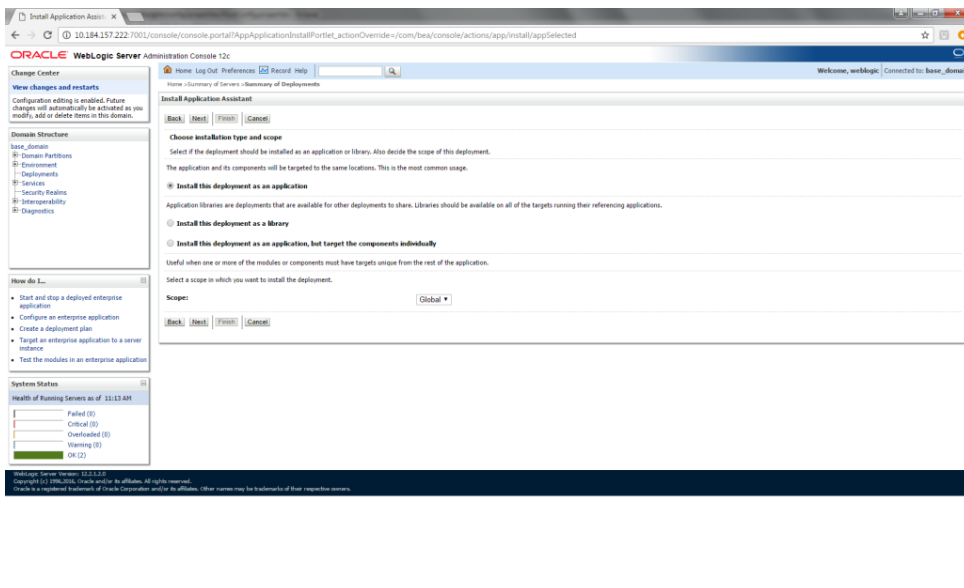
1. Click on **Install** and go o the Drive Location where the EAR files are kept.



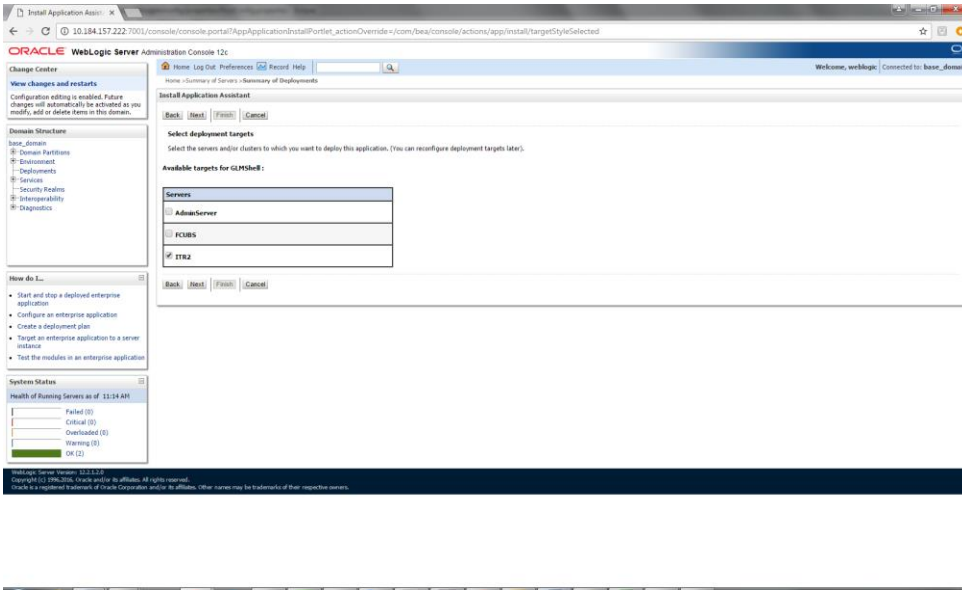
2. Select the Host EAR File **com.ofss.glm.ear** and click on **Next**



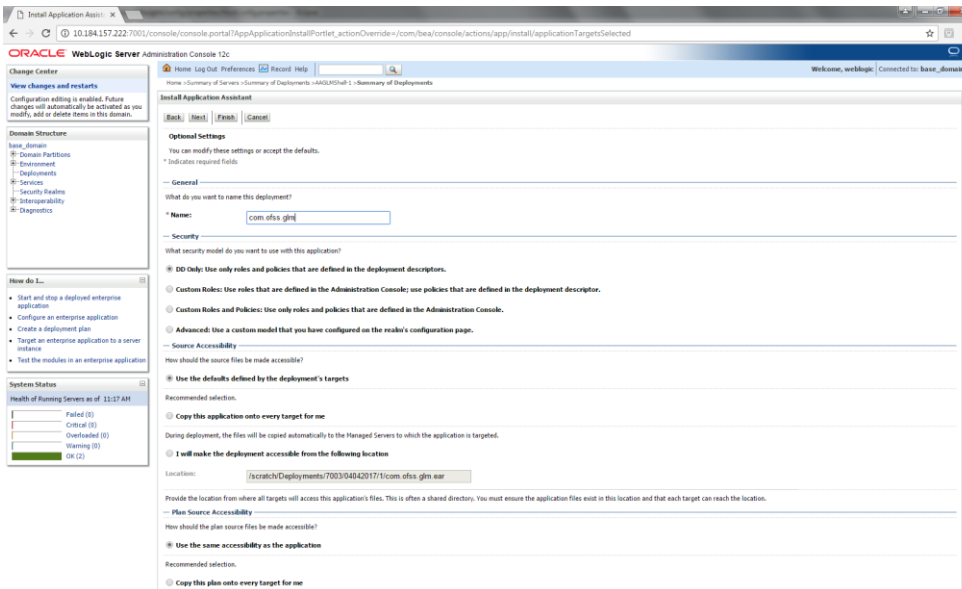
3. Click on **Next**



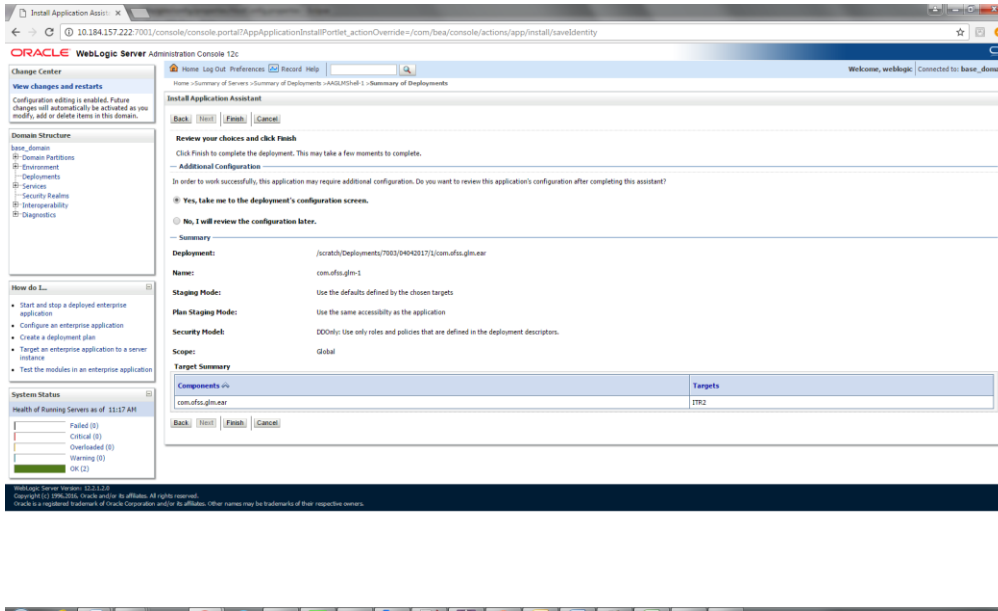
4. Select the target Server For example: **ITR2**



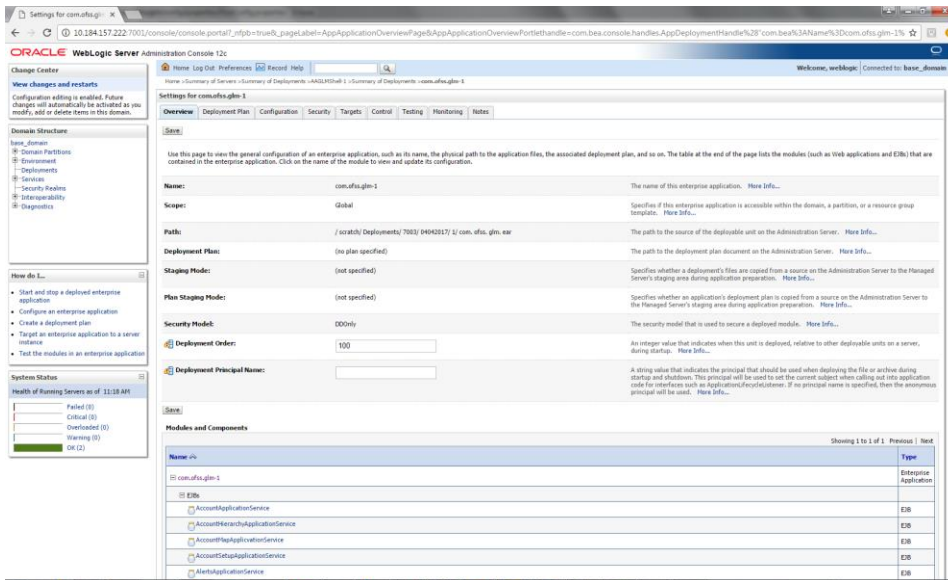
5. Select Name for the deployment file For Example: “com.ofss.glm” and click on **Next**



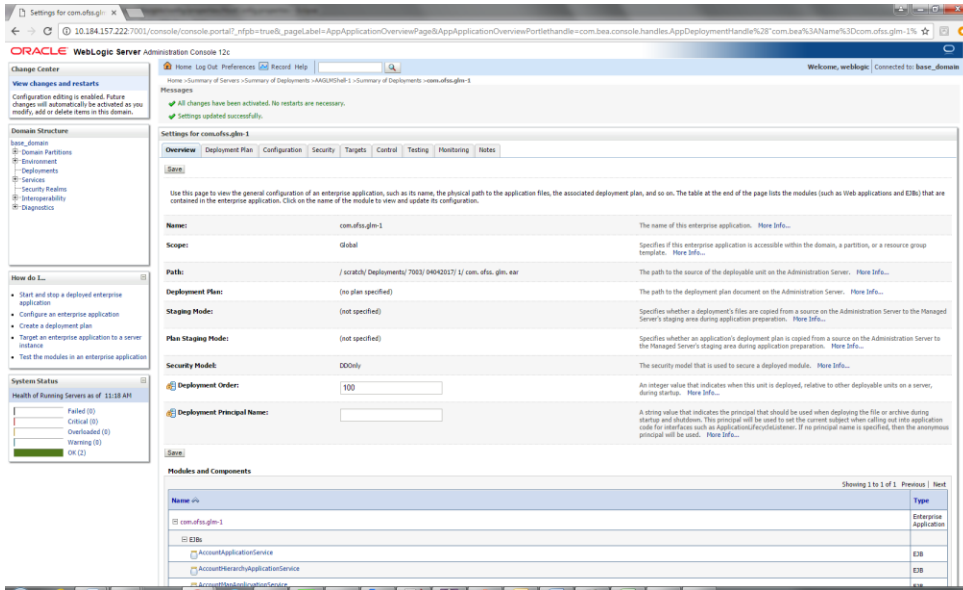
6. Click on **Finish**.



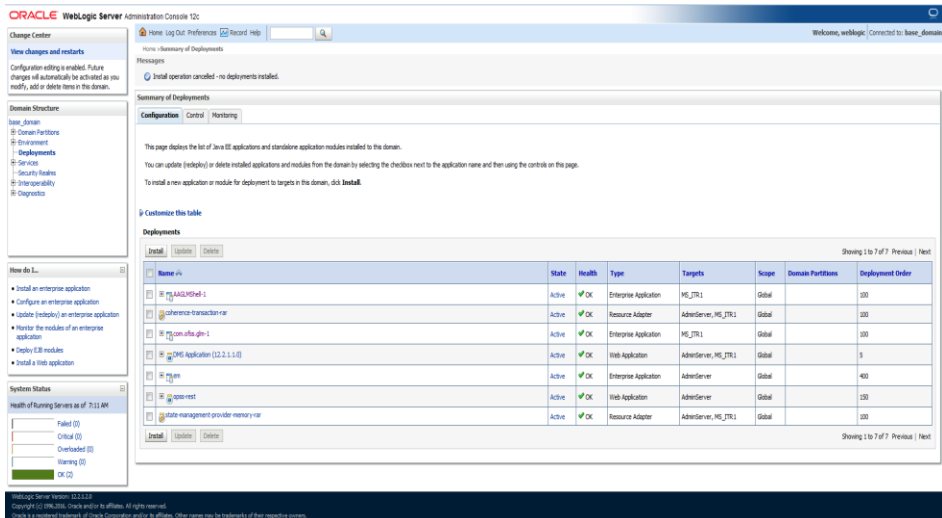
7. Click on Save



8. After Clicking Save the Following Screen should appear.

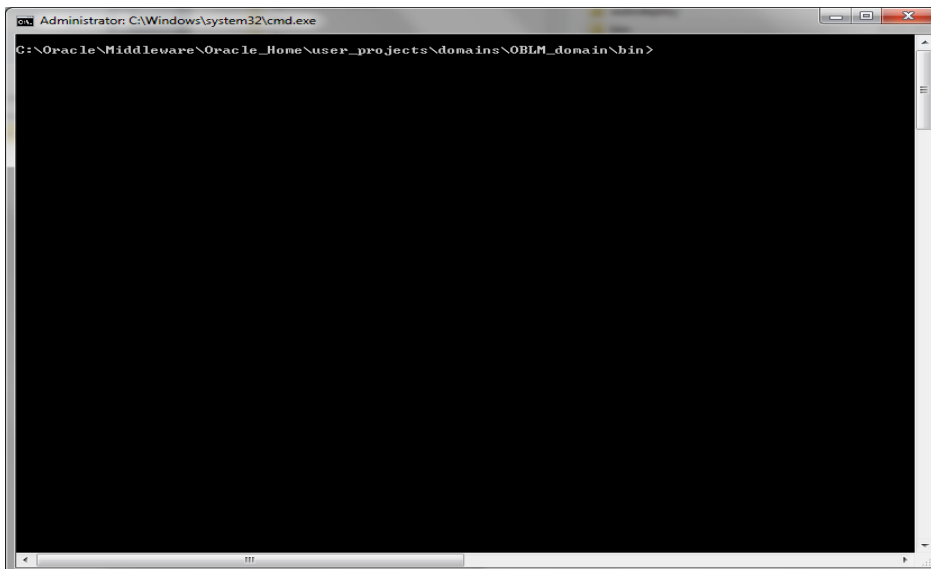


9. Click on Deployment and check the two newly installed EAR's are available and Health column should have the OK status for the EAR's

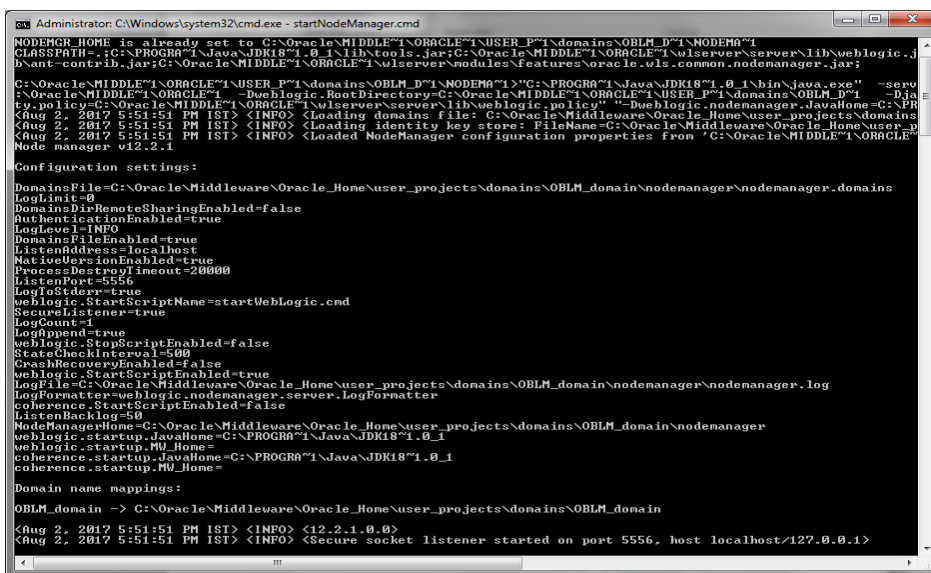


2.2.7 Start The Server

1. Go to the domain path of oblm_domain, (e.g. ...\\Middleware\\Oracle_Home\\user_projects\\domains\\OBLM_domain\). Right click on **bin** folder and Select the “**CMD Prompt Here as Administrator**” to open the Command Prompt.

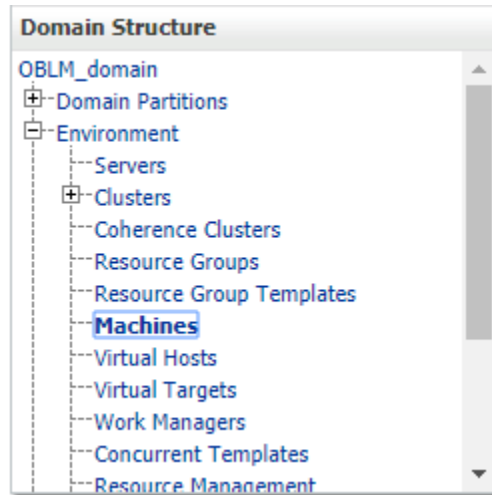


2. Run the **startNodeManager.cmd** file

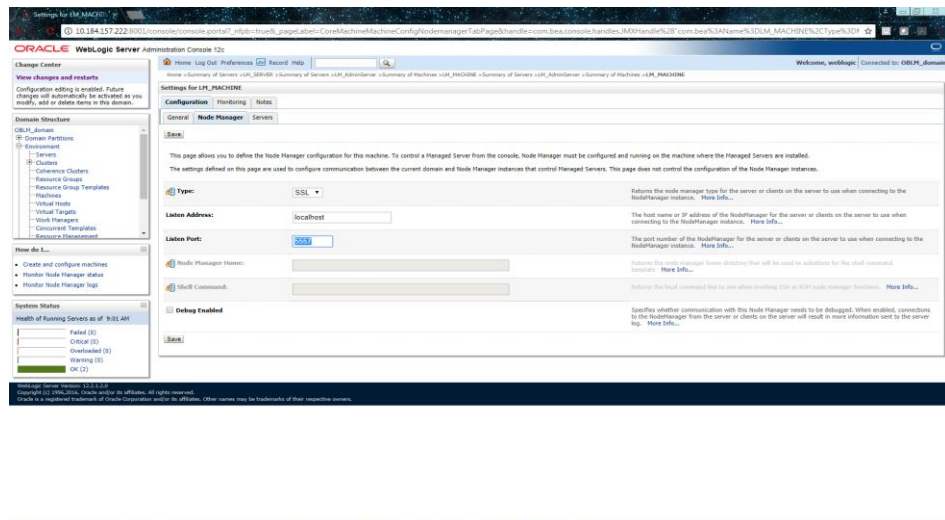


Note: If you get an error stating “5556 port is already in use” then follow the below steps before starting the node manager.

- i. Go to Weblogic Console and click on **Machines** under the **Environment** tab in **Domain Structure** section



- ii. Click on **LM_MACHINE** and then go to **Node Manager** tab



- iii. Change the **Listen Port** to 5557 and click on **Save**
- iv. Go to .../
Oracle/Middleware/Oracle_Home/user_projects/domains/oblm_domain/nodemanager path and edit **nodemanager.properties** file as follows,

ListenPort=5557

Leave the rest of the properties as it was.

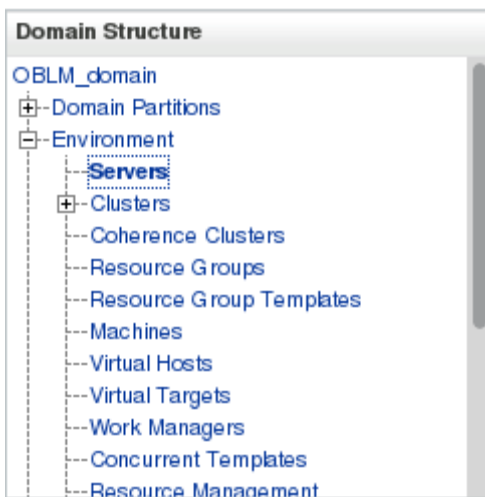
```

#Tue Jul 18 05:12:27 EDT 2017
#Node manager properties
#Tue Jul 18 04:13:25 EDT 2017
DomainsFile=/scratch/oraofss/Oracle/Middleware/Oracle_Home/user_projects/domains/oblm_domain/nodemanager/nodemanager.domains
LogLimit=0
PropertiesVersion=12.2.1.2.0
AuthenticationEnabled=true
NodeManagerHome=/scratch/oraofss/Oracle/Middleware/Oracle_Home/user_projects/domains/oblm_domain/nodemanager
JavaHome=/scratch/jdk/jdk1.8.0_112
LogLevel=INFO
DomainsFileEnabled=true
ListenAddress=localhost
NativeVersionEnabled=true
ListenPort=5556
LogToStderr=true
weblogic.StartScriptName=startweblogic.sh
SecureListener=true
LogCount=1
QuitEnabled=false
LogAppend=true
weblogic.StopScriptEnabled=false
StateCheckInterval=500
CrashRecoveryEnabled=false
weblogic.StartScriptEnabled=true
LogFile=/scratch/oraofss/Oracle/Middleware/Oracle_Home/user_projects/domains/oblm_domain/nodemanager/nodemanager.log
LogFormatter=weblogic.nodemanager.server.LogFormatter
ListenBacklog=50

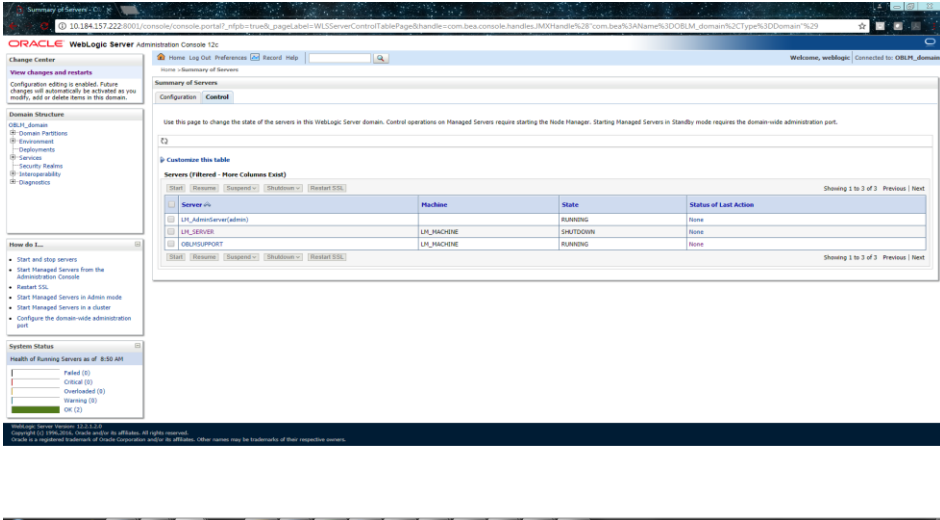
```

- v. Save the file
- vi. Now, repeat the steps of Section 2.2.7

3. Go to Weblogic console and click on **Server** under the **Environment** tab in **Domain Structure** section



4. You should see the **Summary of Servers** page. Click on **Control** tab



5. Select **LM_SERVER** and click **Start** button
6. Wait till the Server State change to **RUNNING**

2.2.8 Application User Creation

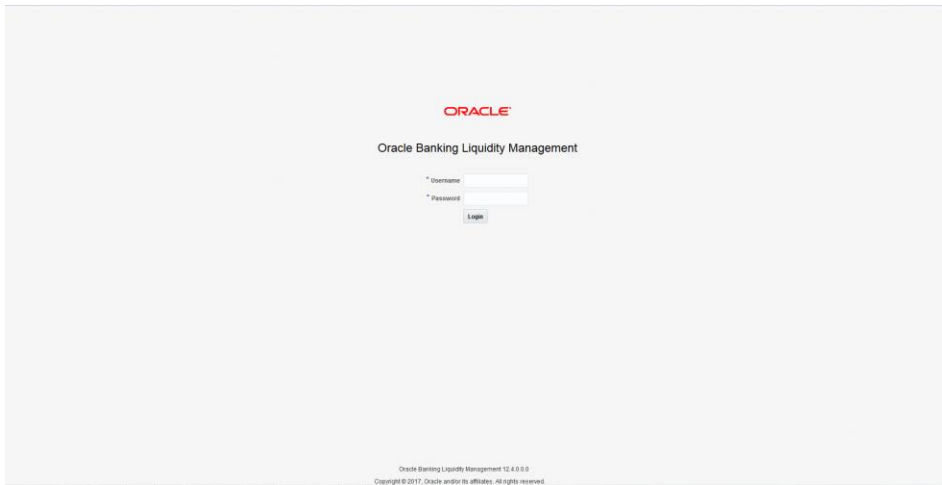
Please refer to User creation utility instruction manual –
 (Oracle_Banking_Liquidity_Management_12 4 0 0 0_Create_User_Utility_Setup.pdf)

2.2.9 Configure SSL

To Configure SSL, Please refer to the SSL Configuration Manual
 (Oracle_Banking_Liquidity_Management_12 4 0 0 0_SSL_Configuration.pdf)

2.2.10 Test Liquidity Management Application

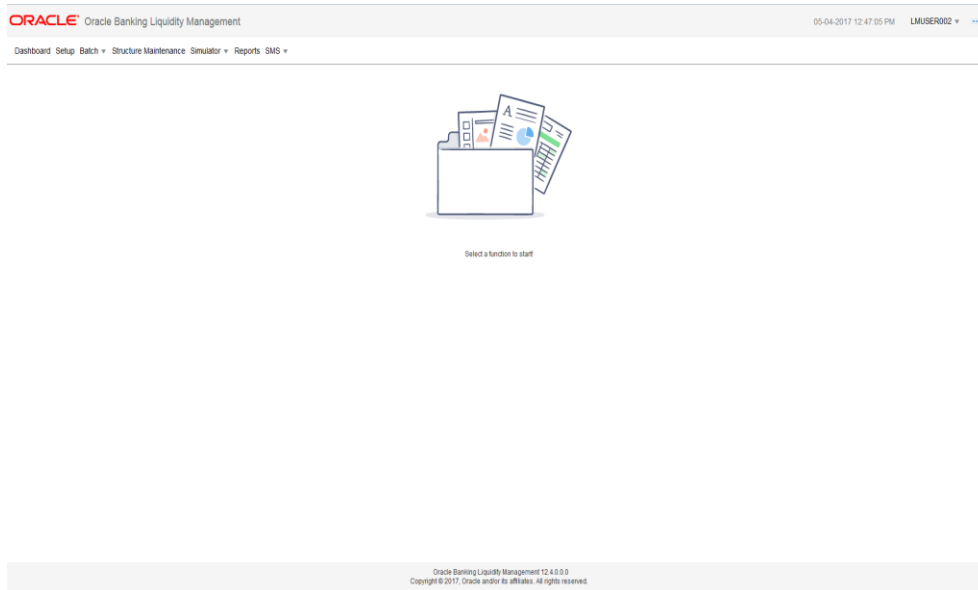
1. Open the Application in a New Tab in the Browser. The Following Screen should appear.



2. Enter the user credentials and click on Login

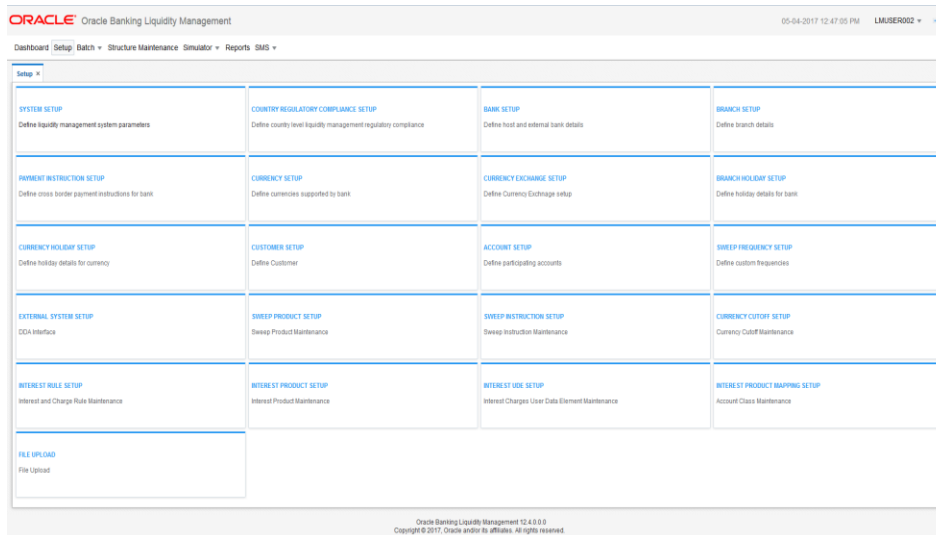


- After Logging into the application the following screen should appear.



- Click on any of the Menu Items. For Example: Click on **Setup** menu

The following screen should appear.



5. Select any of the items under **Setup** menu and do the necessary operations.

For Example select **System Setup**. The following screen should appear.

The screenshot shows the Oracle Banking Liquidity Management interface. At the top, the header includes the Oracle logo, the text "Oracle Banking Liquidity Management", the date and time "05-04-2017 12:47:05 PM", and the user name "LMUSER002". Below the header is a navigation menu with "Dashboard", "Setup", "Batch", "Structure Maintenance", "Simulator", "Reports", and "SMS". The "Setup" menu is expanded to show "System Setup".

The main content area is titled "Modify" and contains the following fields and options:

- System ID*: LMS01
- Release Number*: 1.0
- Instance Name*: WELLS FARGO1
- Instance Description: WELLS FARGO1
- Instance Host Country*: United States of America
- Region: AmericaNew_York
- Multiple Bank Cash Concentration:
- Cross Border Pool:
- Cross Border Sweep:
- Cross Currency Pool:
- Cross Currency Sweep:
- Products: PhysicalSweep InterestPooling
- Action When Account is Blocked: Stop Account Stop Whole Post Structure

Below these fields is a "Custom Parameters" section with a table:

Parameter	Value	Description
No data to display.		

At the bottom of the form, there are fields for "Input By", "Date Time", "Modification Number", and "Open", along with "Authorized By", "Date Time", and "Authorized".

The footer of the page contains the text: "Oracle Banking Liquidity Management 12.4.0.0 Copyright © 2017, Oracle and/or its affiliates. All rights reserved."



Liquidity Management Application Setup
Oracle Banking Liquidity Management
Version 14.0.0.0.0
[November] [2017]

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