

Liquidity Management SSO Configuration  
Oracle Banking Liquidity Management  
Release 14.0.0.0.0  
[November] [2017]



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# 1. FMW 12.2.1.3.0 Infrastructure Installation

## 1.1 Introduction

This chapter details out the installation steps for Fusion Middleware 12.2.1.3.0.

All the installations in this document need jdk1.8.0\_144

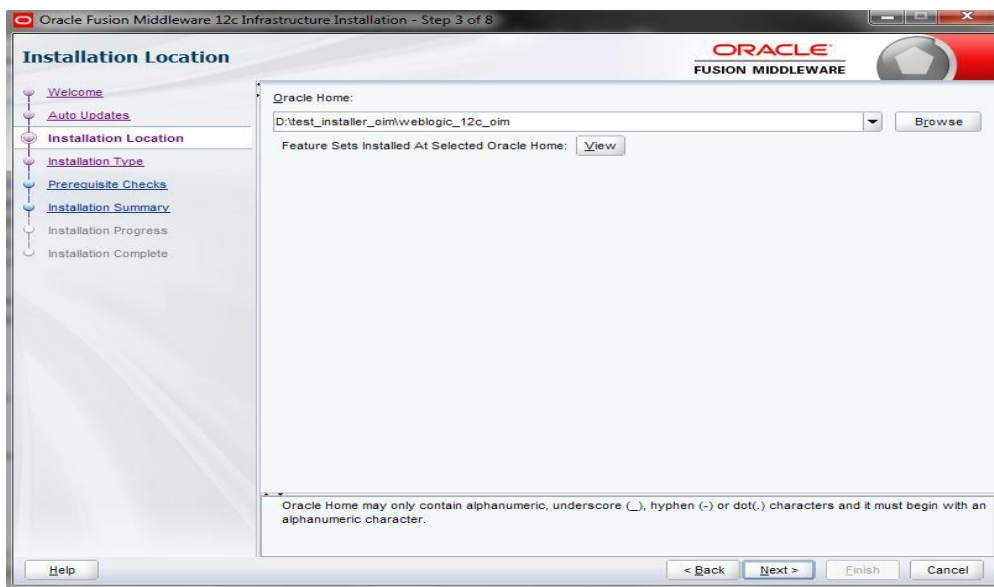
## 1.2 Installation Steps

1. Execute the FMW executable jar using the following command:

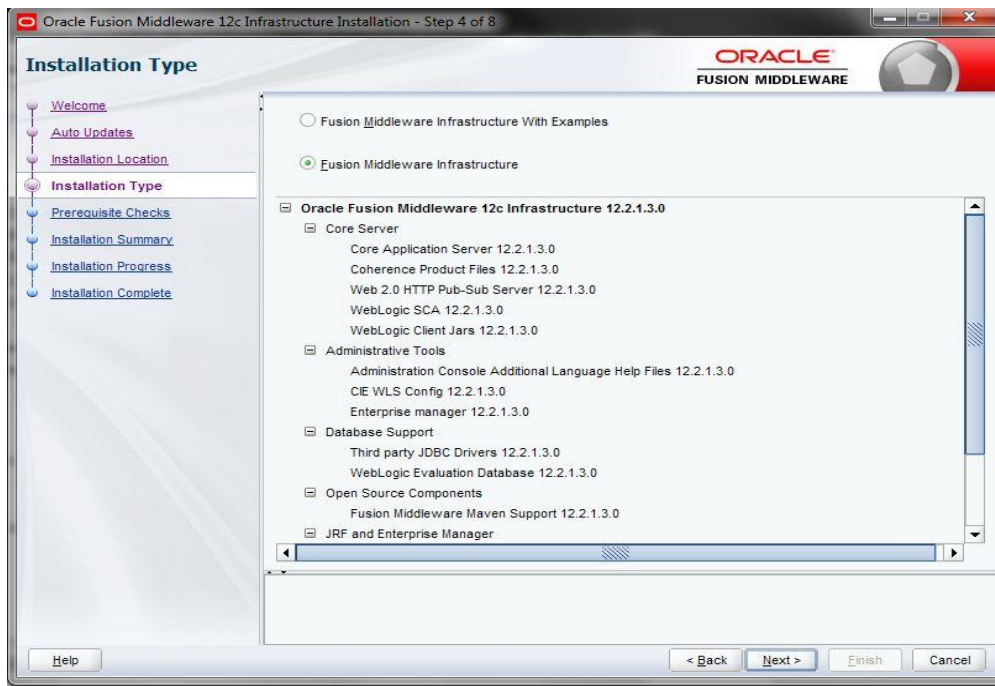
```
>java -jar <filename.jar>
```



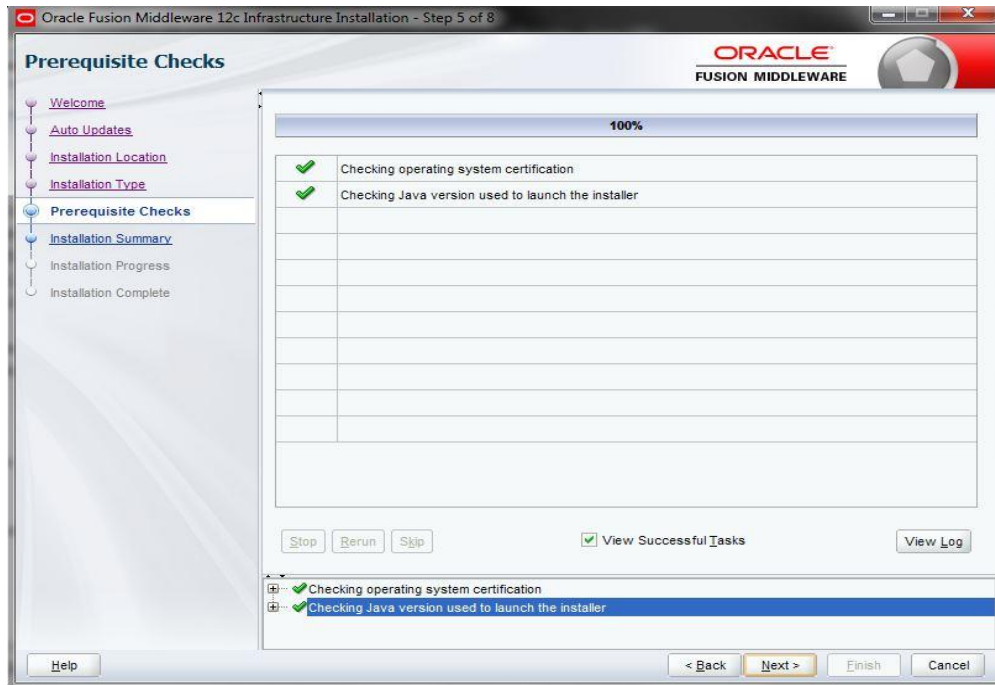
2. Click **Next** on the Welcome Screen.
3. Skip Auto updates
4. Enter Oracle Home path, where you want to install the middleware and click **Next**.



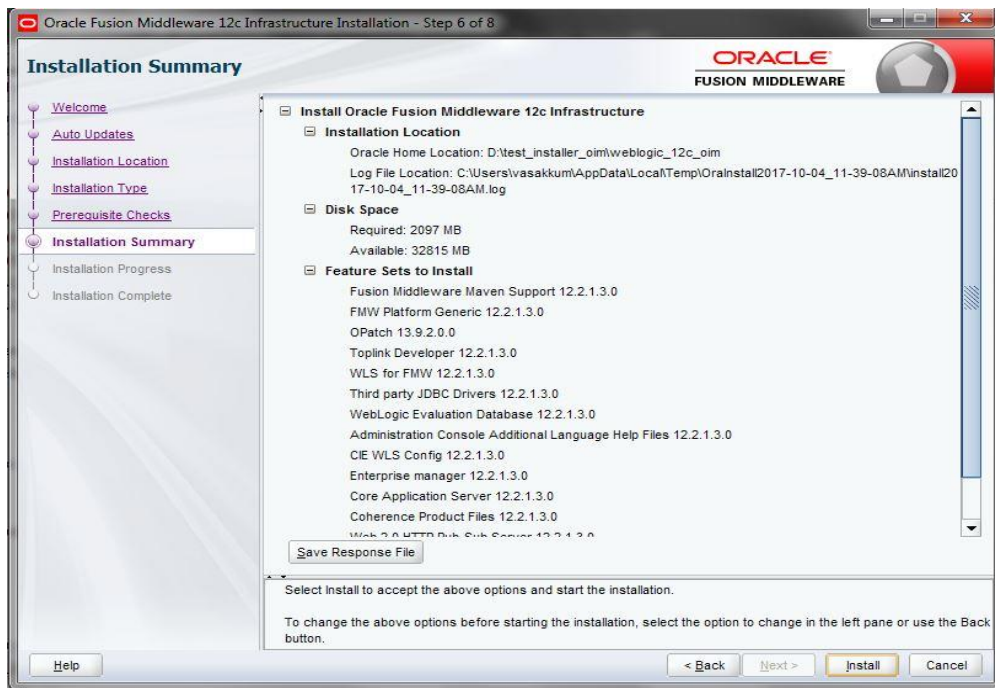
5. Select **Fusion Middleware Infrastructure** and click **Next**.



6. Click **Next** after the Prerequisites Check is successfully completed.



7. Click **Install**.



## 2. OIM Configuration

### 2.1 Introduction

This chapter details out the configuration of Oracle Fusion Middleware 12c Identity and Access Management (OIM).

### 2.2 Installation Steps

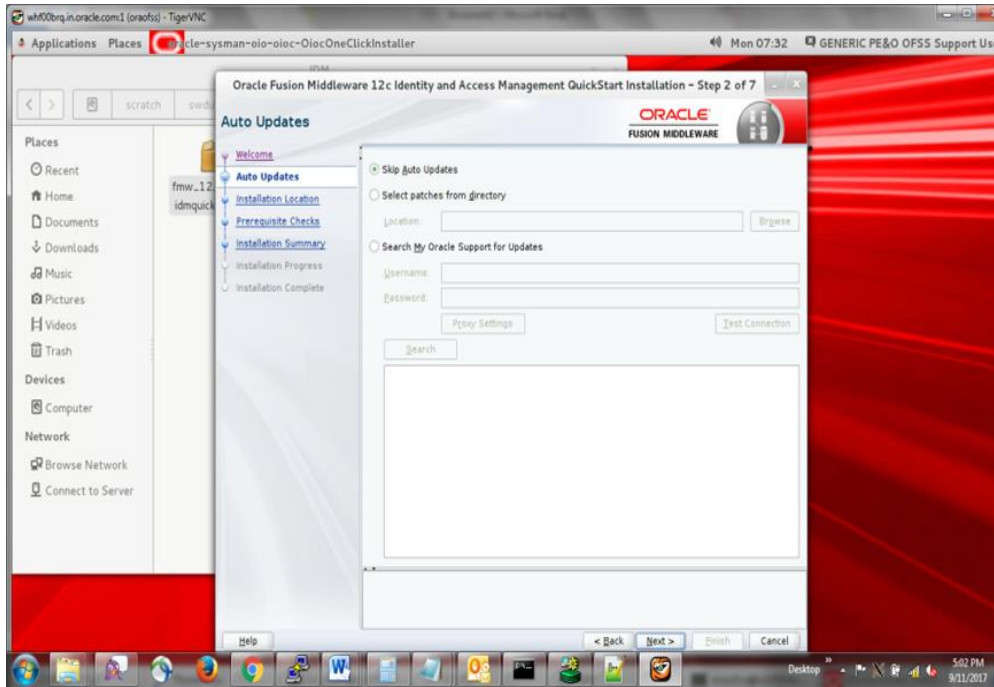
1. Execute the `fmw_12.2.1.3.0_idmquickstart.jar` file by running the following command in Command Prompt.

```
>java -jar fmw_12.2.1.3.0_idmquickstart.jar
```

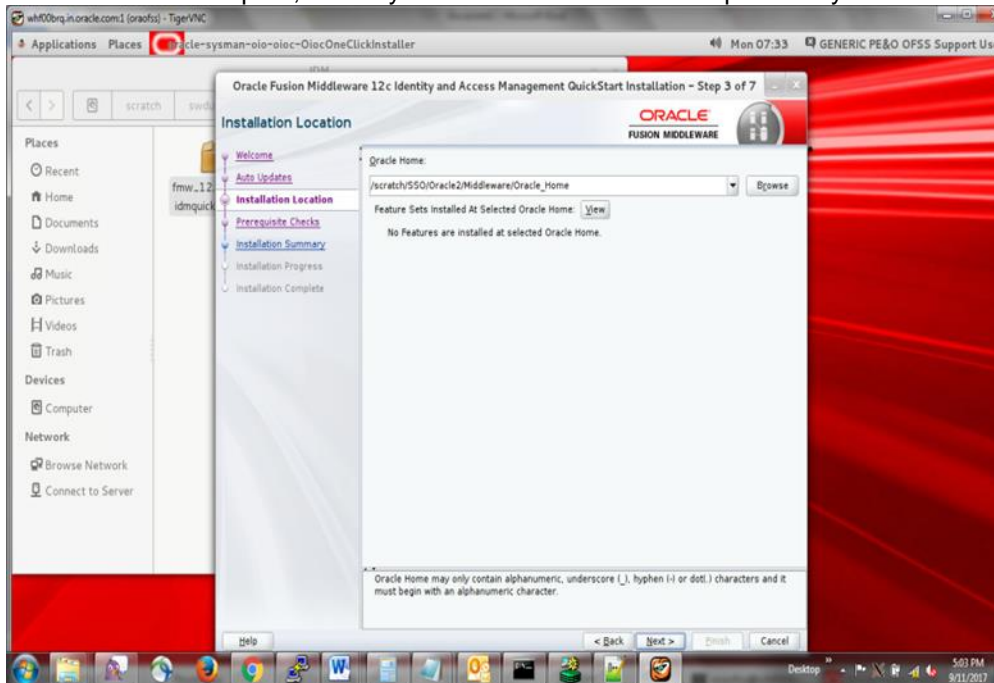
2. Click **Next**.



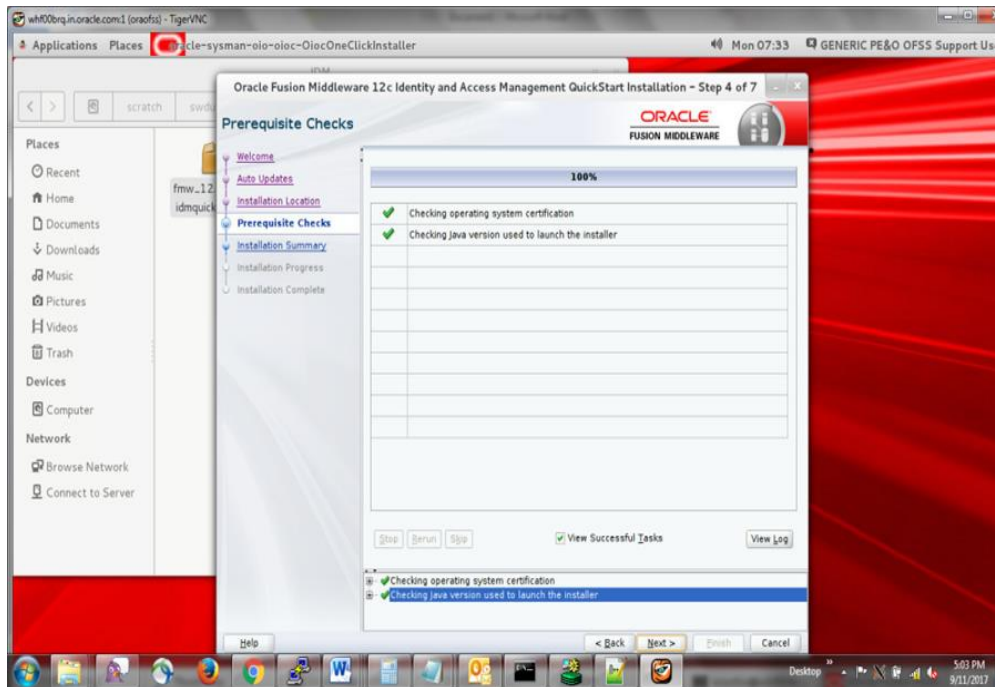
3. Select **Skip Auto Updates** and click **Next**.



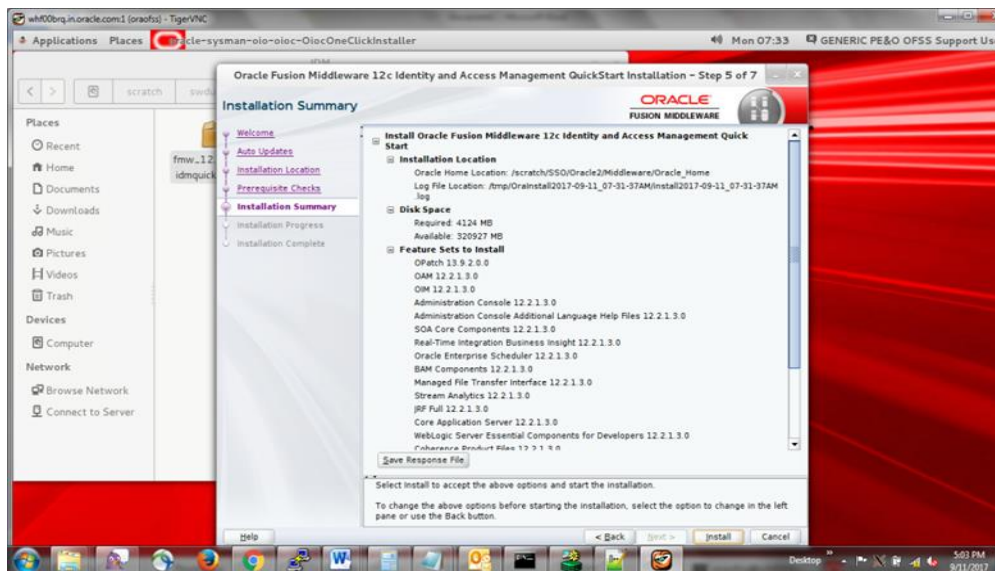
4. Enter Oracle Home path, where you have installed the FMW previously and click **Next**.



5. Click **Next** after the Prerequisites Check is successfully completed.



6. Review the Installation Summary and click **Install**.





## 2.3 OIM Domain Creation Steps

### 2.3.1 RCU Configuration

#### 2.3.1.1 Introduction

This chapter details out the configuration of RCU

#### 2.3.1.2 Installation Steps

Follow the below mentioned steps:

- i. Open cmd (**Command Prompt**) as Administrator.
- ii. Open sql plus by executing the following command:

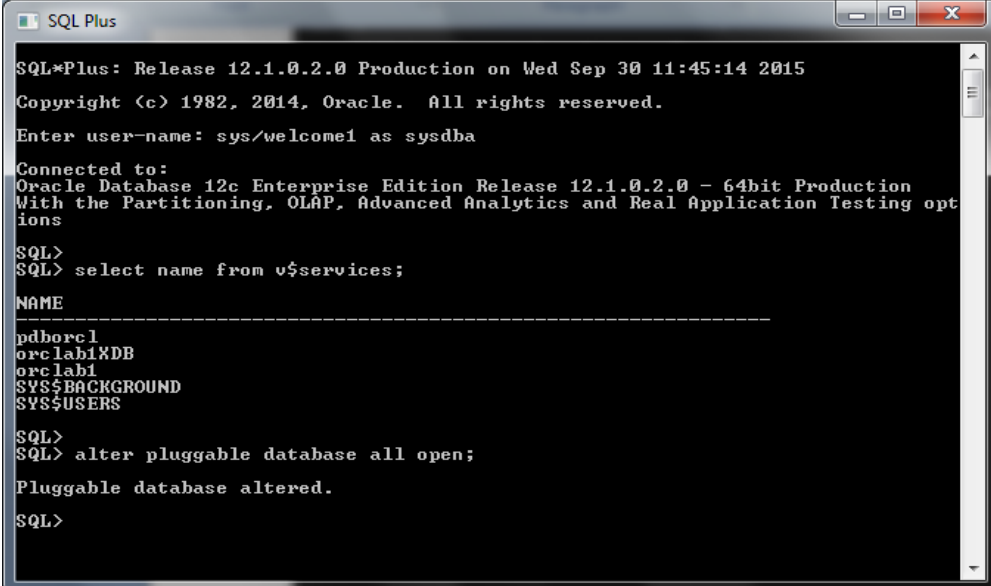
```
>sqlplus <schema_name>/<schema_password>@<db_name>
```

- iii. Connect as sys user.

```
SQL>conn sys as sysdba
```

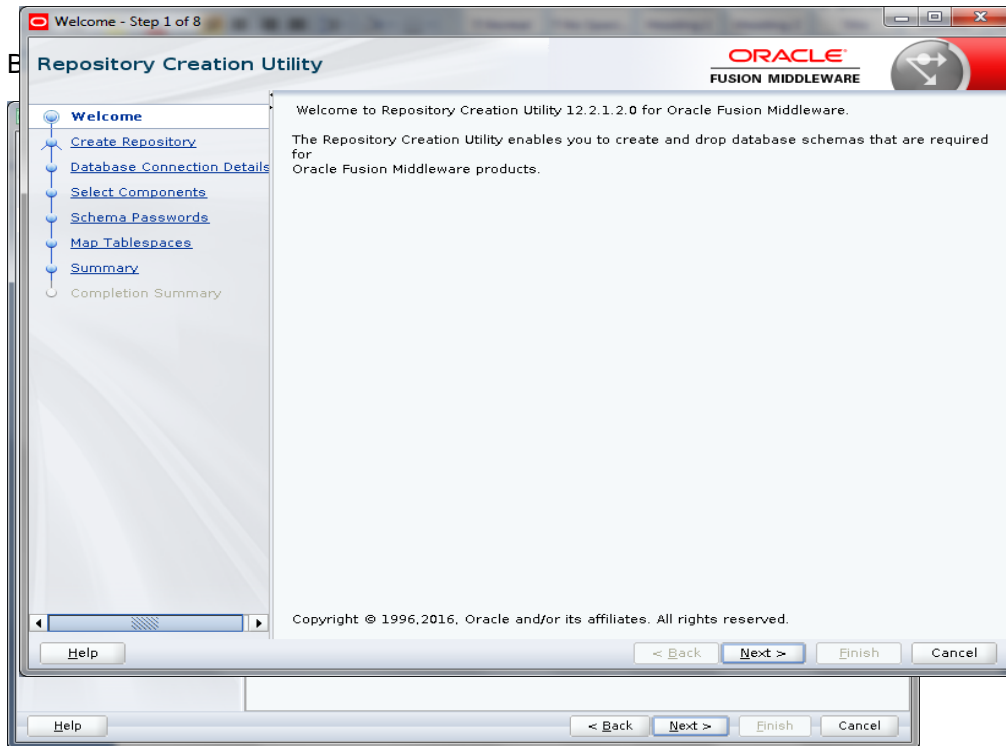
- iv. Enter password.
- v. Now execute the following commands.

```
SQL>select name from v$services;  
SQL>alter pluggable database all open;  
SQL>alter system set processes = 500 scope = spfile;  
SQL>alter system set open_cursors = 800 scope = both;  
SQL>grant execute on DBMS_REPUTIL to public;
```

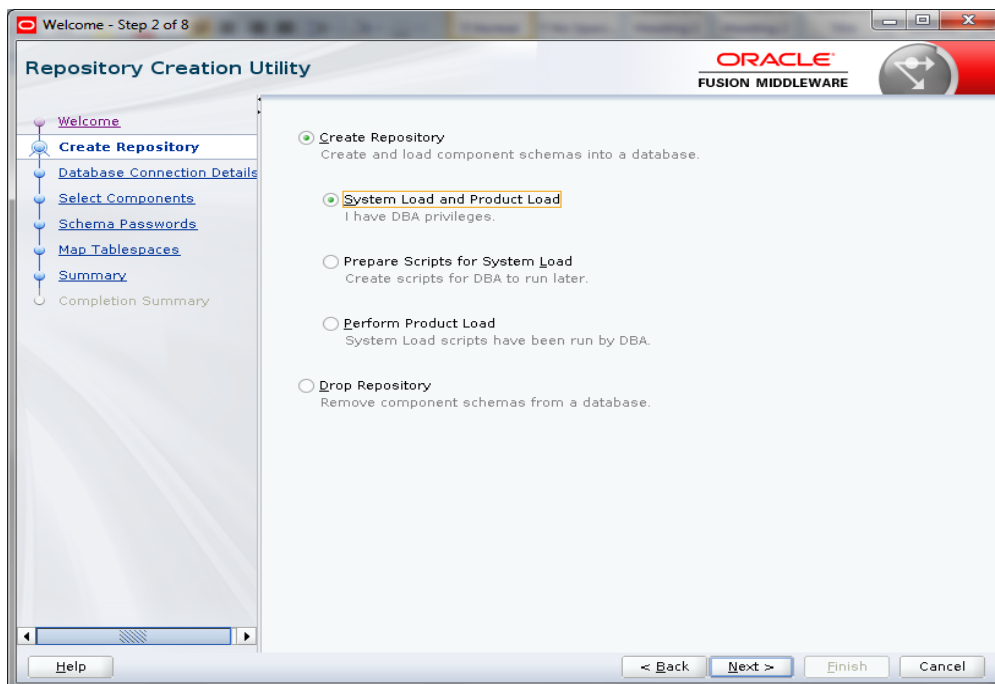


```
SQL Plus  
SQL*Plus: Release 12.1.0.2.0 Production on Wed Sep 30 11:45:14 2015  
Copyright (c) 1982, 2014, Oracle. All rights reserved.  
Enter user-name: sys/welcome1 as sysdba  
Connected to:  
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production  
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing opt  
ions  
SQL>  
SQL> select name from v$services;  
NAME  
-----  
pdborcl  
orclab1XDB  
orclab1  
SYS$BACKGROUND  
SYS$USERS  
SQL>  
SQL> alter pluggable database all open;  
Pluggable database altered.  
SQL>
```

- vi. Go to ...\\Oracle\_Home\\oracle\_common\\bin path and run **rcu.bat** file.

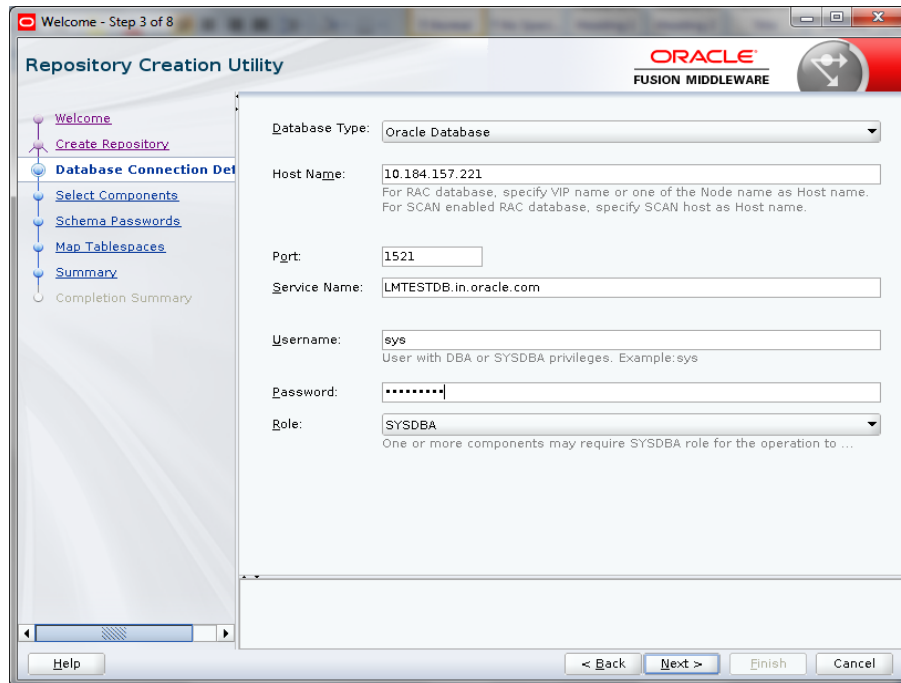


vii. Click on **Next**. Following screen will appear. Select **System Load and Product Load**.

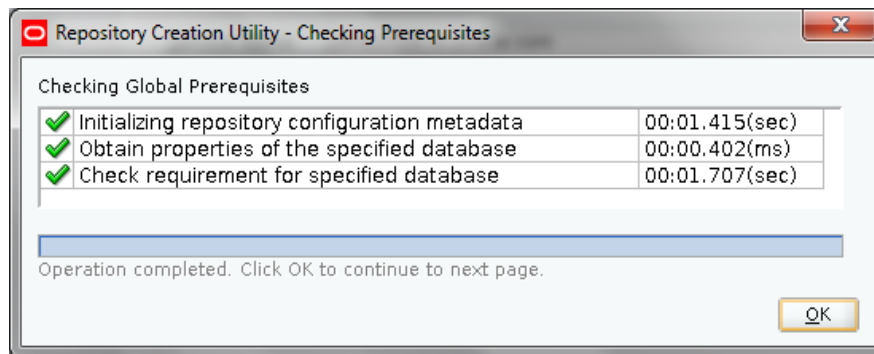


viii. Click on **Next**. The following screen will appear, enter the details.

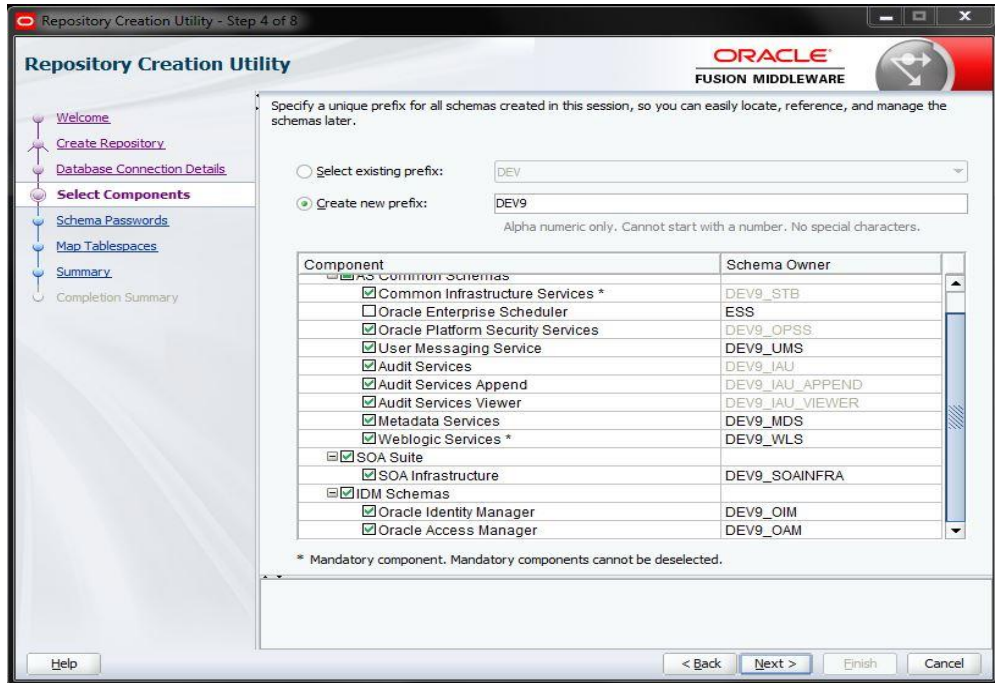
**Database Type:** Oracle Database  
**Host Name:** IP Address of Database  
**Port:** Port Number of Database  
**Service Name:** Service Name of the DB (For ex. LMTESTDB.in.oracle.com)  
**Username:** sys  
**Role:** SYSDBA



ix. Click on **Next**.



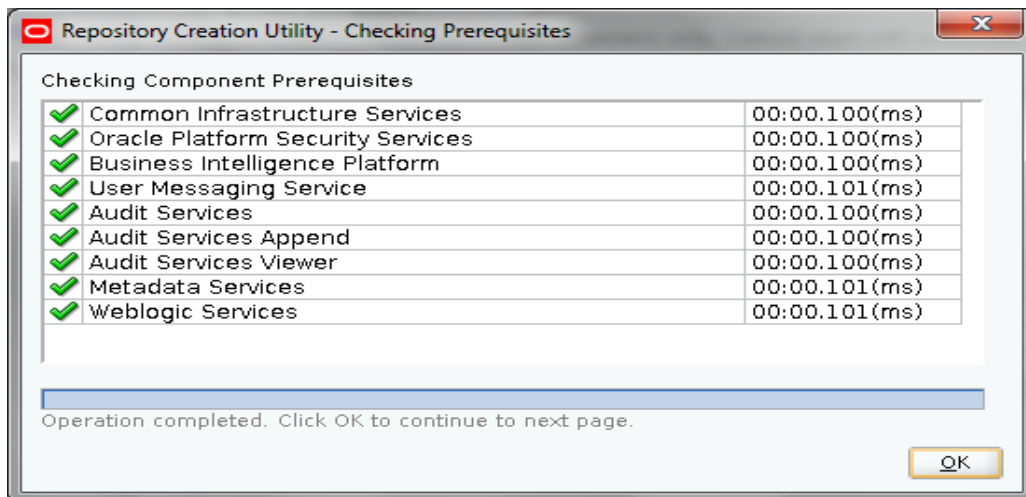
x. Click **OK** after the Prerequisites Check is successfully completed.



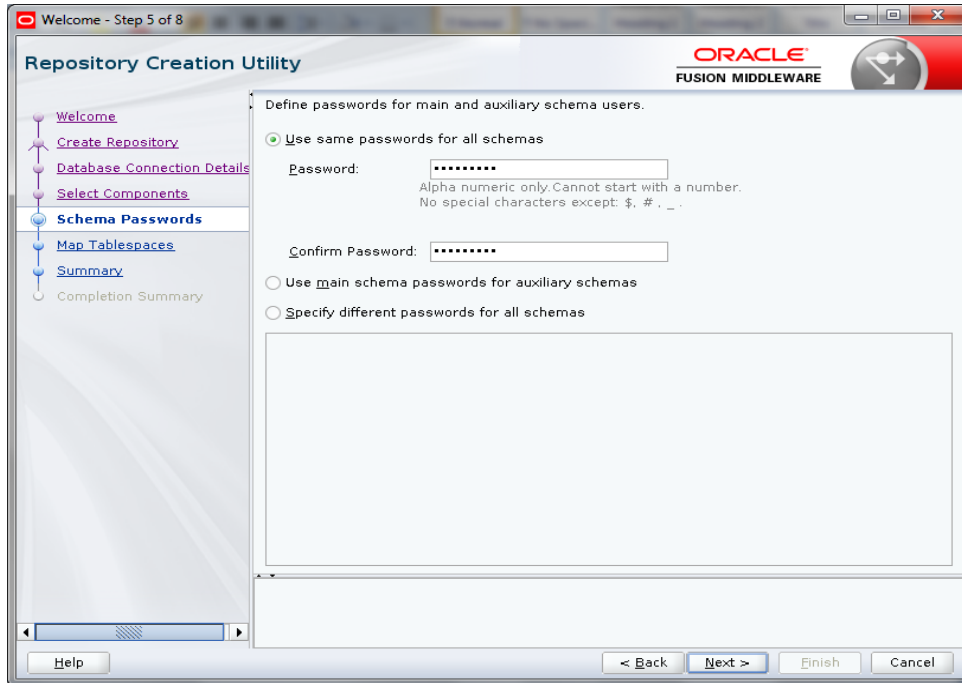
- xi. Select **Create new prefix**. Take a note of the prefix you have selected. Select all the component checkboxes present in the list. Click **Next**.

If prerequisites check fails at oim, check error log. If its xatransaction related tables missing run scripts of xaview.sql, initxa.sql present in database installation folder

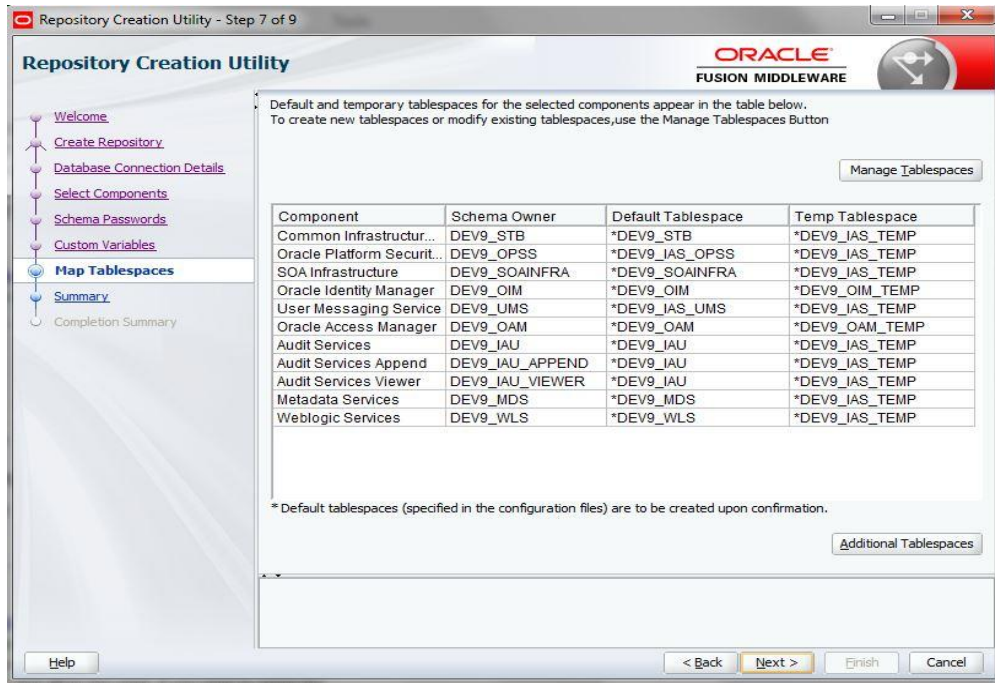
Oracle\product\12.1.0\dbhome\_1\RDBMS\



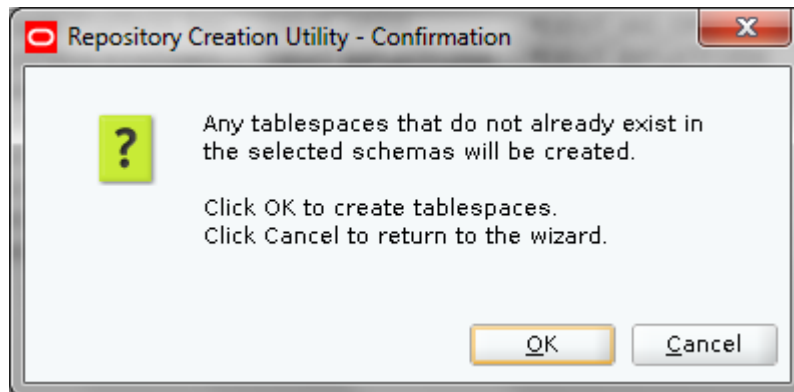
- xii. Click **OK** after the Prerequisites Check is successfully completed.



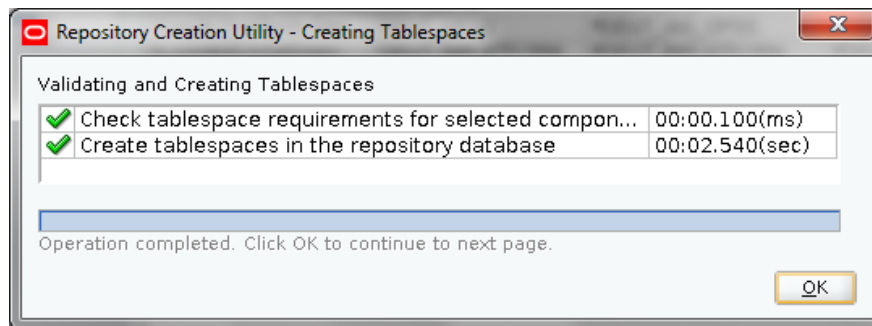
- xiii. Click on **Use Same Password for all schemas**, enter and confirm the password and Click **Next**.



xiv. Confirm and click **Next**.



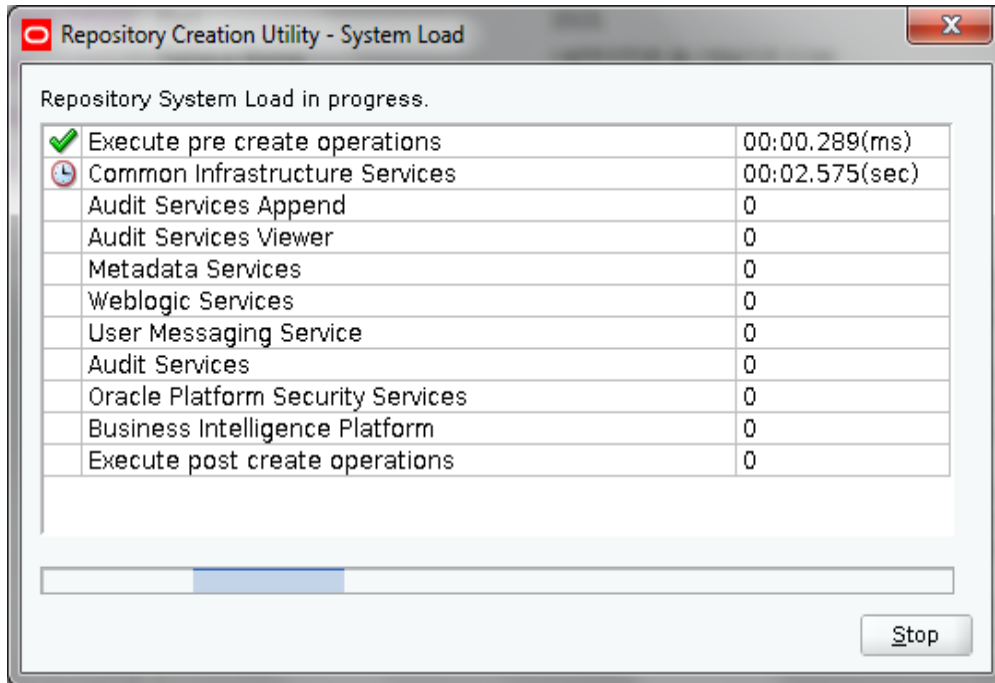
xv. Click **OK**.

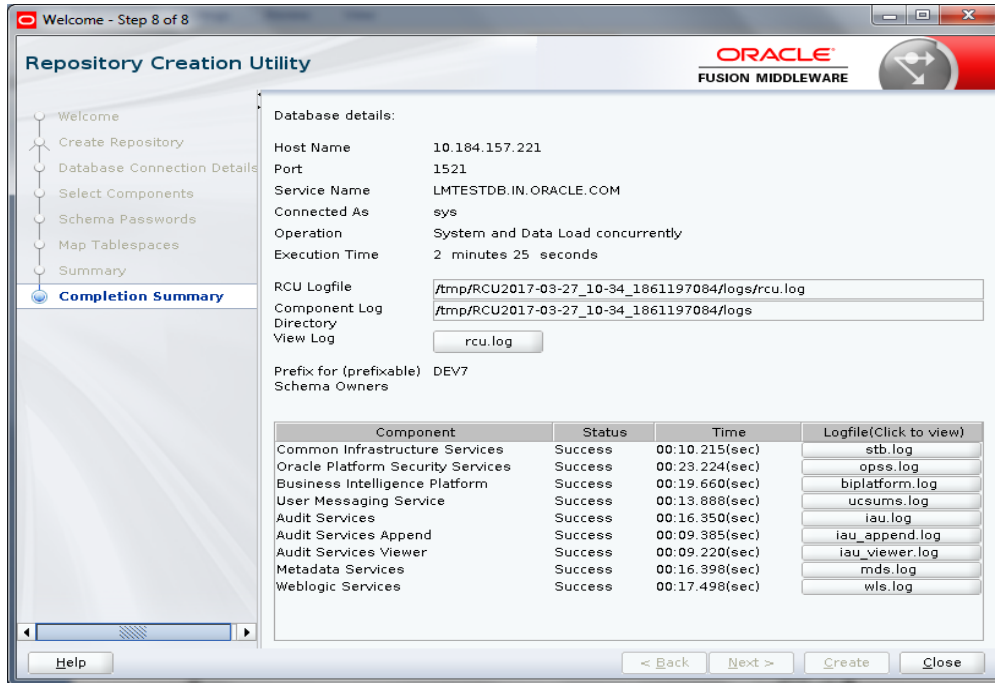


xvi. Click **OK**.



xvii. Click **Create**.



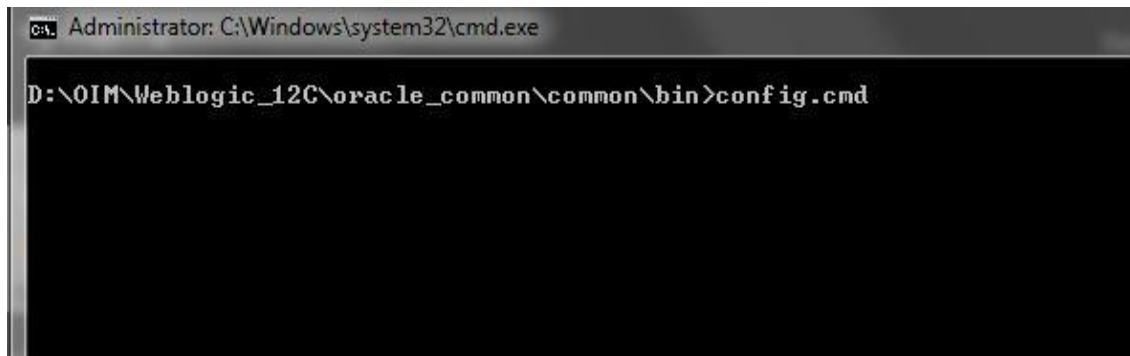


xviii. The above screen will come after the Repository is successfully created. Review the above screen and Click **Close**.

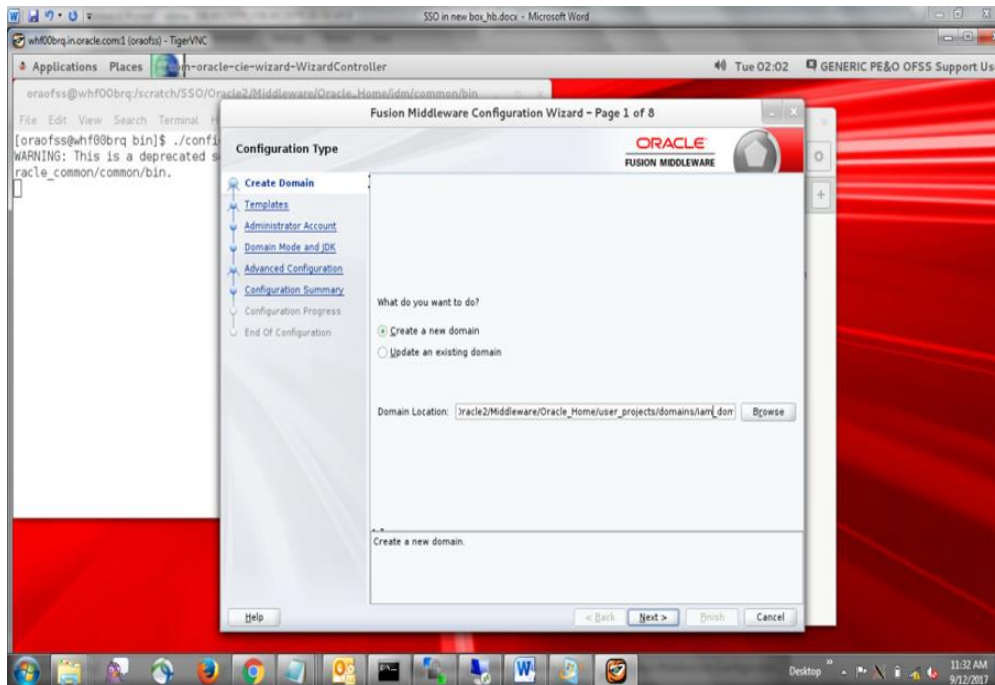


## 2.3.2 OIM domain creation

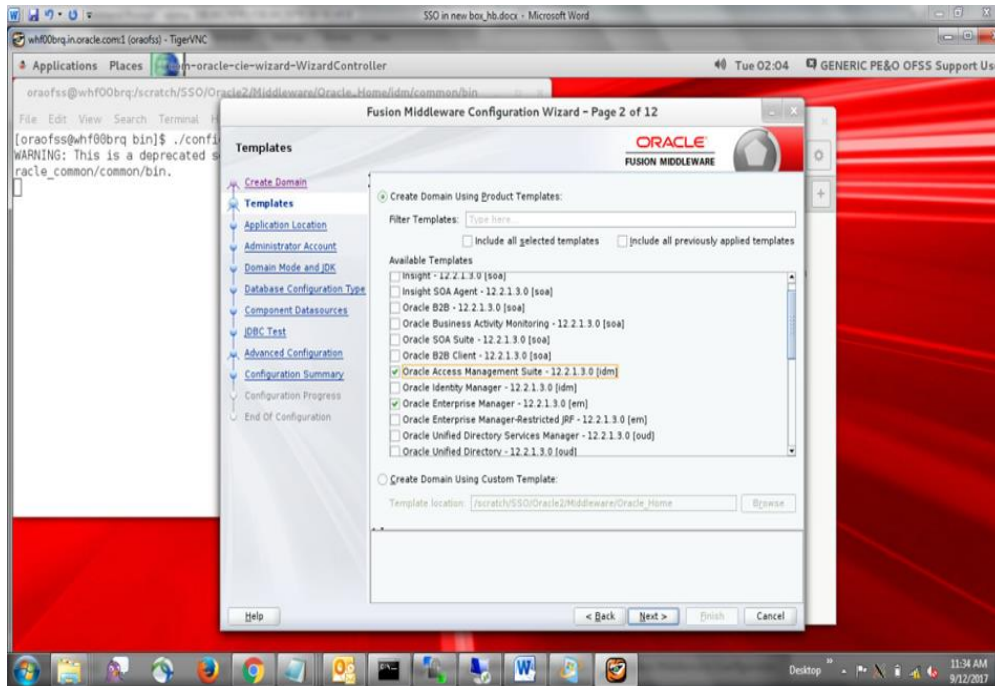
1. Open cmd (Command Prompt) as Administrator in OIM installed path (For ex. ...\\oracle\_home\\oracle\_common\\common\\bin\\) and run **config.cmd** file.



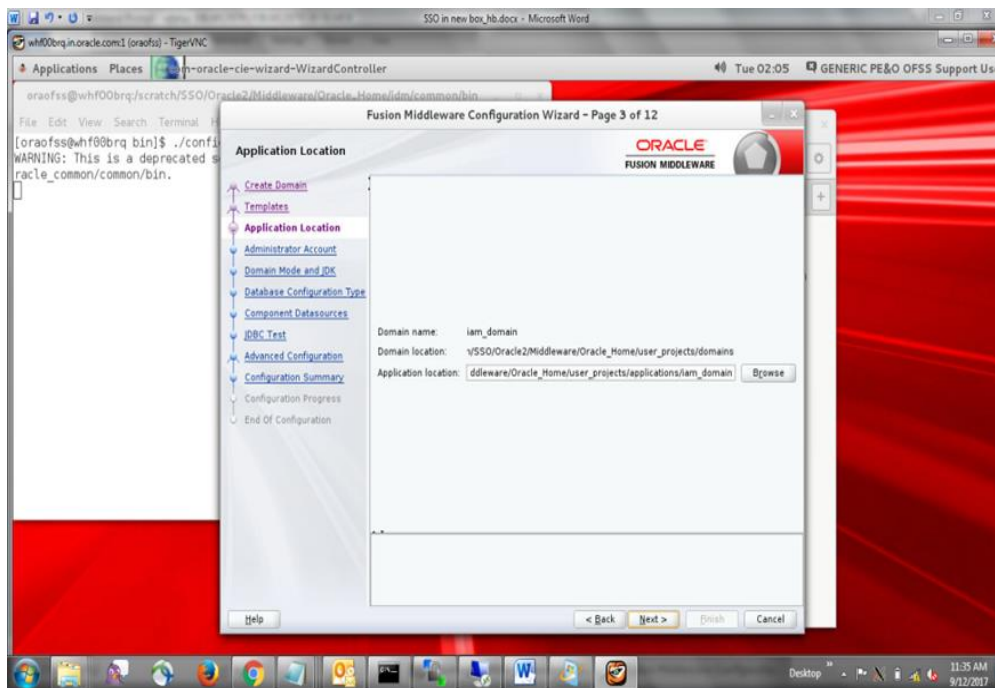
2. Enter the path where you want to create the domain and the domain name (For ex. oim\_domain) and click **Next**.



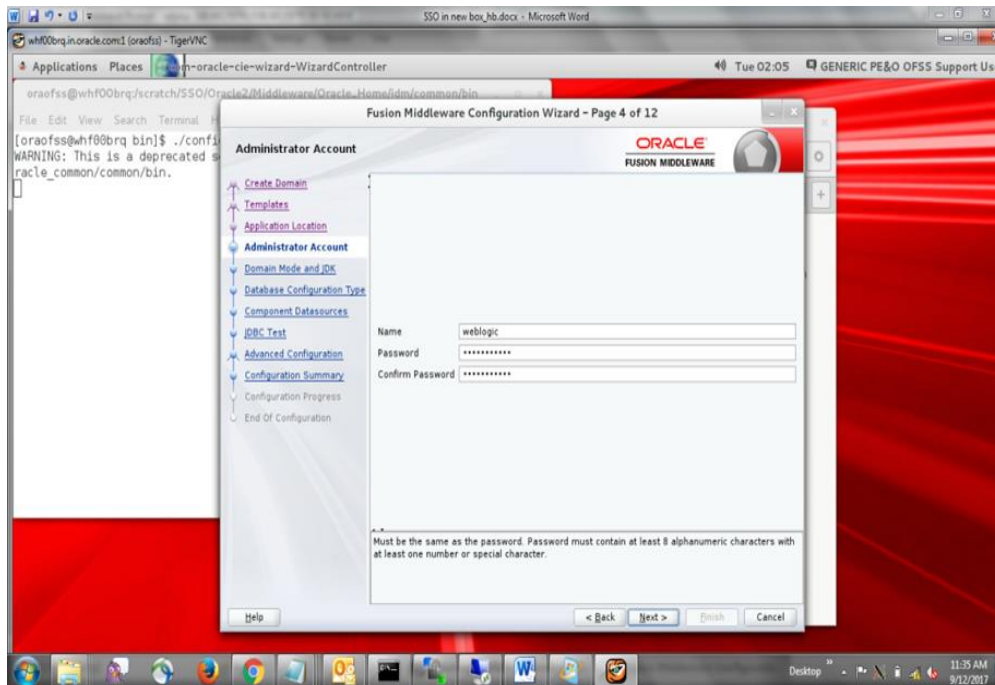
3. Select the Templates as given below:
  - Basic Weblogic Server Domain - 12.2.1.3.0 [wlserver]
  - Oracle Access Management Suite - 12.2.1.3.0 [idm]
  - Oracle Enterprise Manager - 12.2.1.3.0 [em]
  - Oracle JRF - 12.2.1.3.0 [oracle\_common]
  - Oracle Coherence Cluster Extension - 12.2.1.3.0 [wlserver]



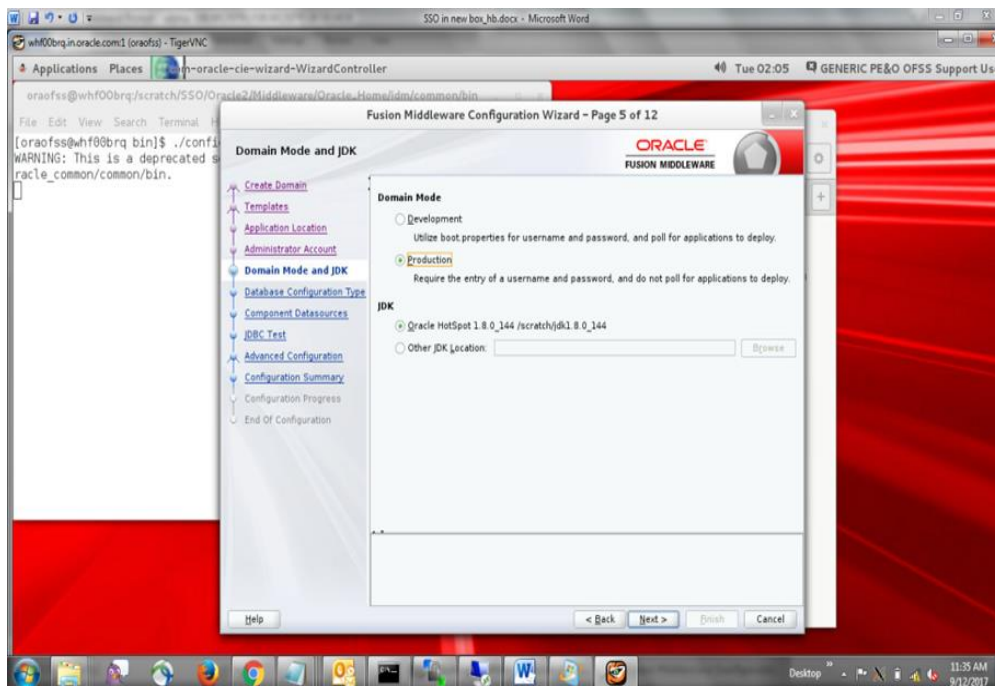
4. Enter domain location and click **Next**.



5. Enter **Name** and **Password**, this credentials will be used to login into OIM Domain Console. **Please remember this User Name and Password as these will be used in many places.**

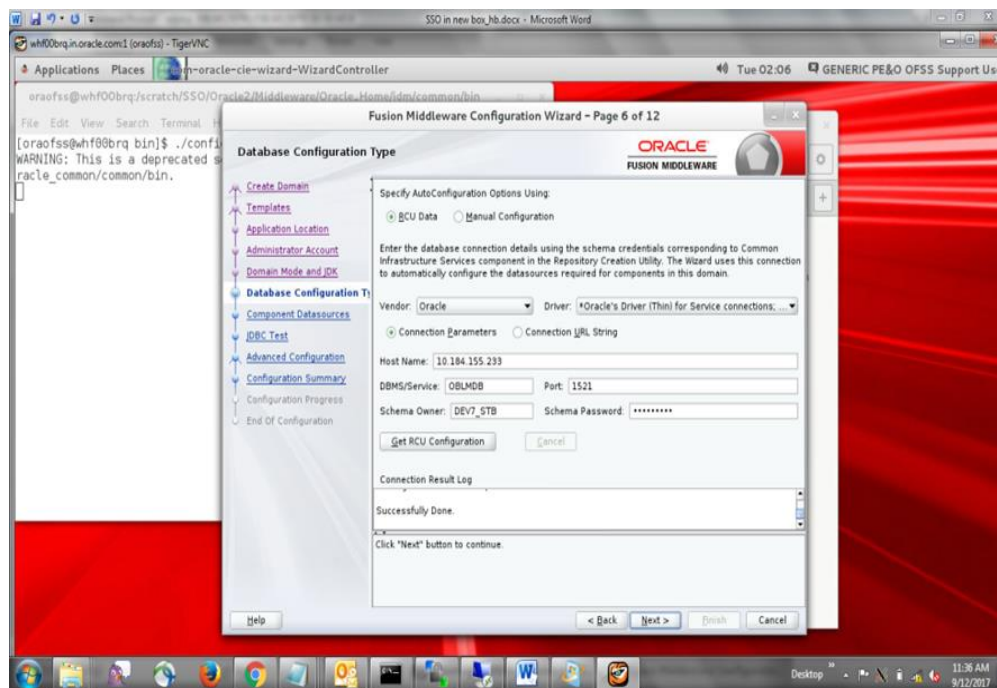


6. Select **Production** as Domain Mode and latest **JDK**. Click **Next**.

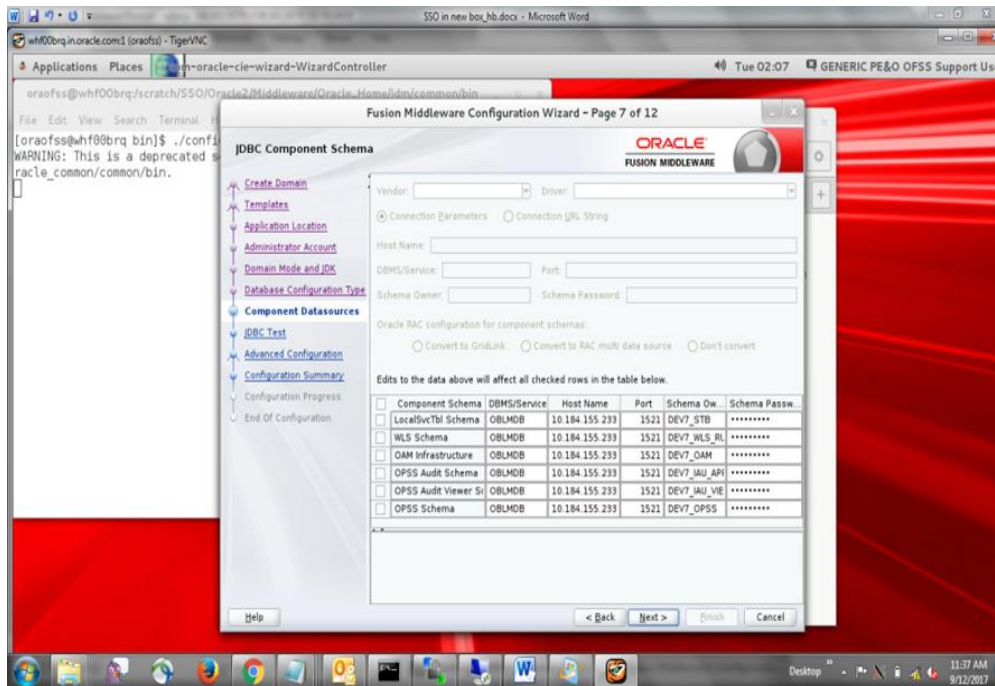


7. Database Configuration Type Screen will appear, Select **RCU Data**. Give the RCU (Repository Creation Utility) Details that you have created already for OIM. Enter the rest of the details as follows:

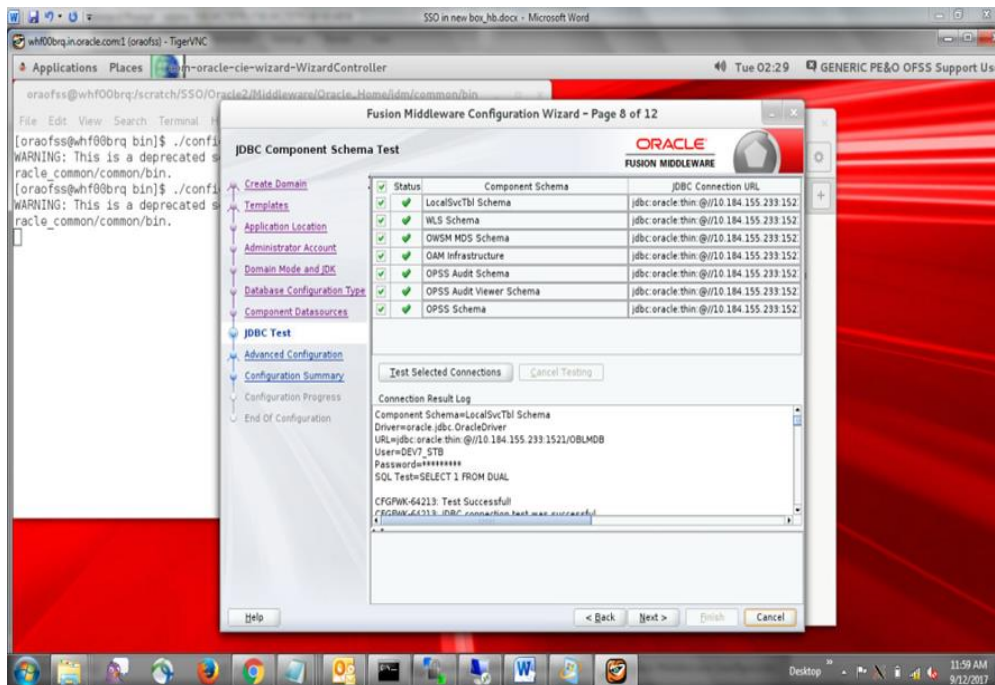
- *Vendor:* Oracle
- *Driver:* Oracle's Driver (Thin) for Service connections
- *DBMS/Service:* Enter the Service Name of your DB
- *Host Name:* Enter the IP address of the system where your DB is installed
- *Port:* Enter the Port Number of your DB
- *Schema Owner:* Enter the Schema Owner created while RCU setup with suffix **\_STB**. Here DEV6 is the Schema Owner, suffix with **\_STB** it will be DEV6\_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.



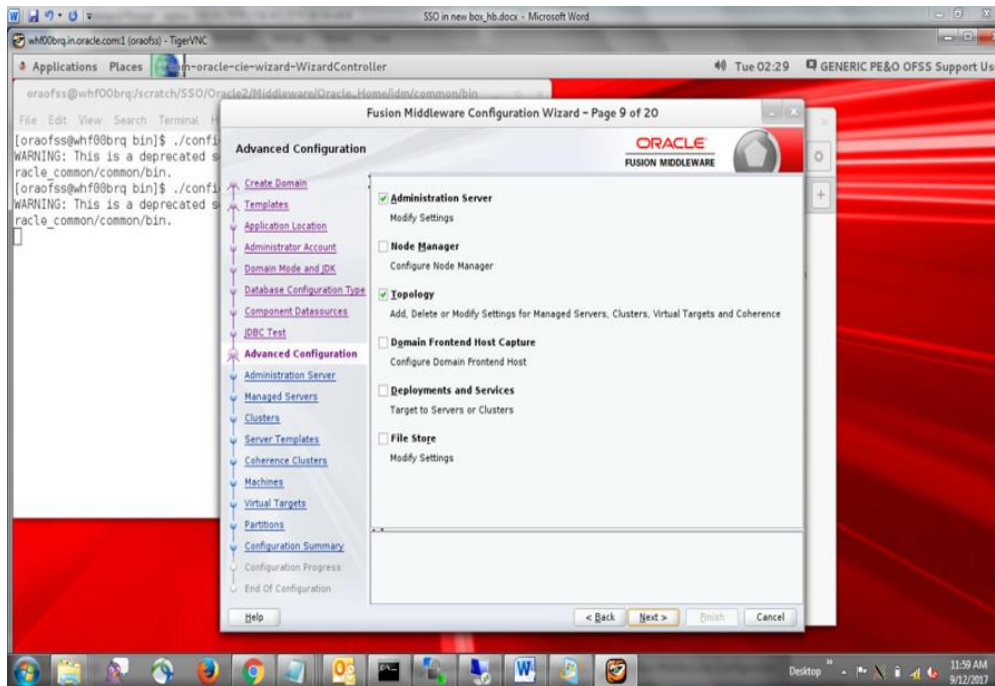
8. Click **Next**.



9. Click **Next** once JDBC Test for all the components are successfully.

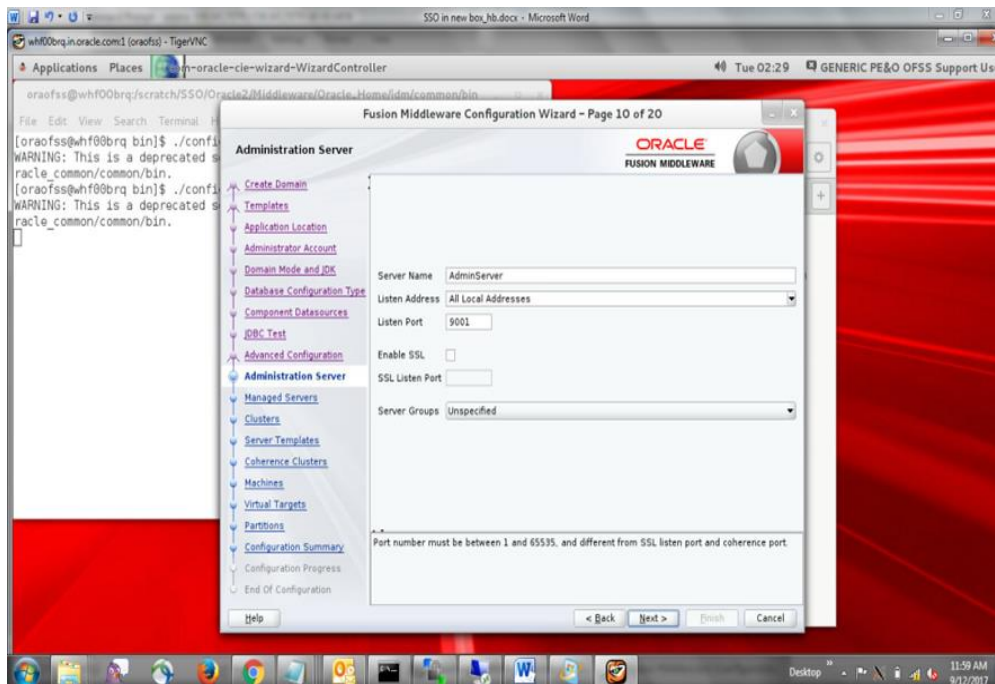


10. Select **Administration Server** and **Topology** and click **Next**.



11. Enter the following details and leave other fields empty:

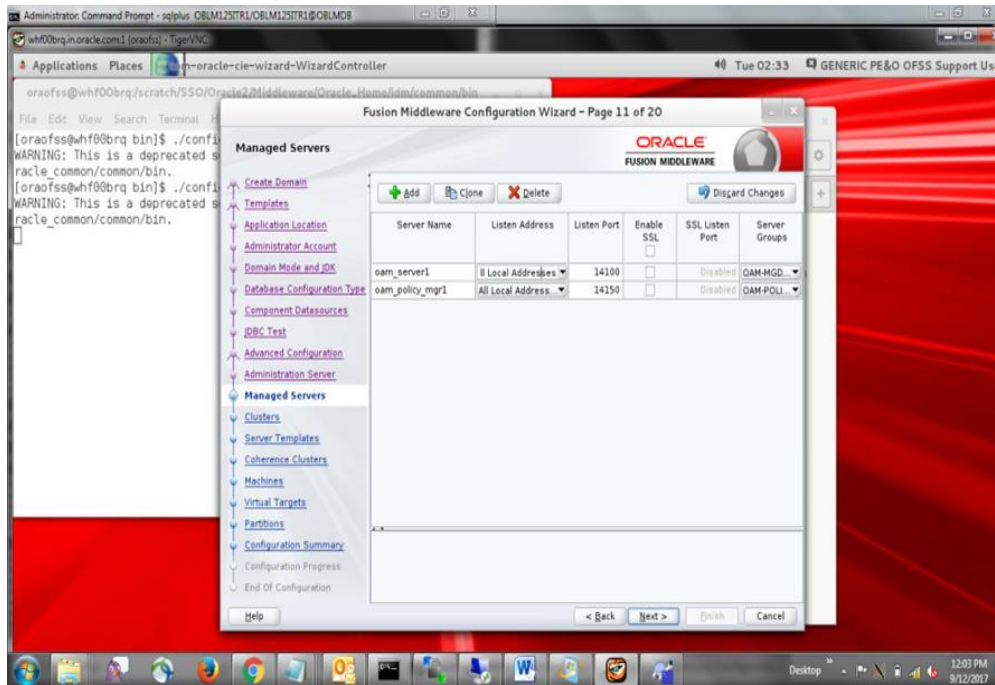
- Server Name: AdminServer
- Listen Address: All Local Addresses
- Listen Port: Enter any port number which is not in use (**For ex. 9001**)



12. Add two managed servers. Enter the following details:

- *Server Name:* oam\_server1 & oam\_policy\_mgr1
- *Listen Address:* All Local Addresses
- *Listen Port:* 14100 & 14150

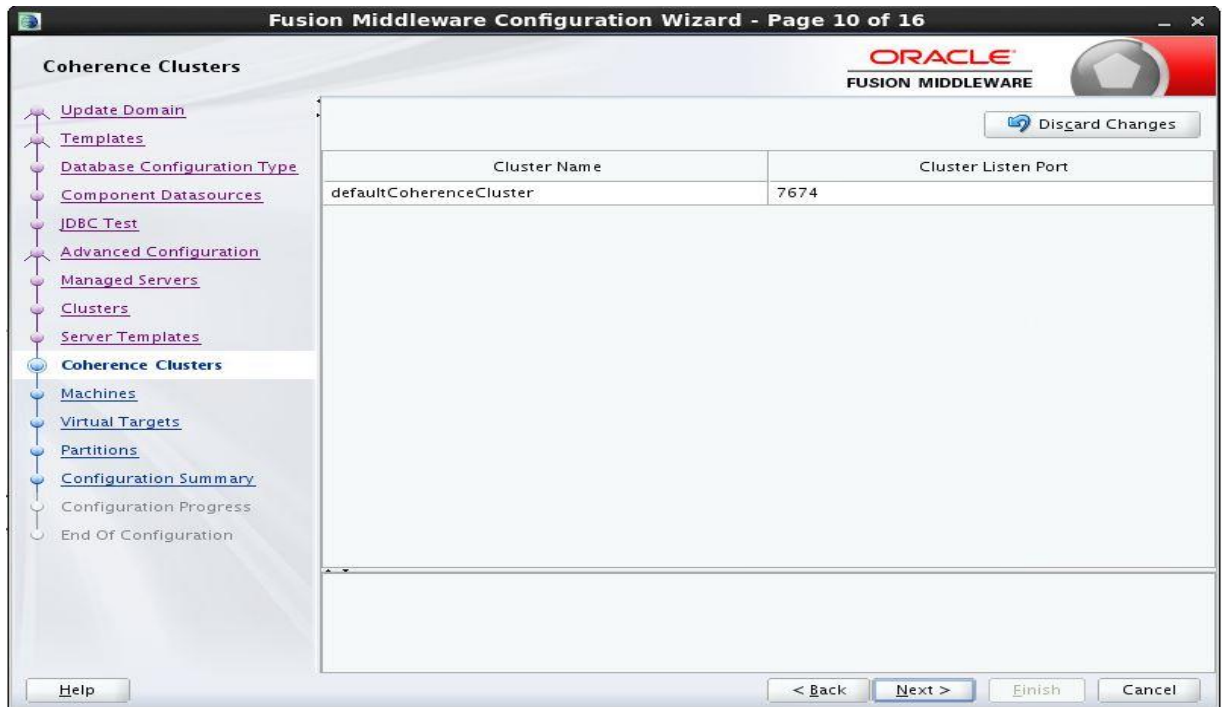
**NOTE:** Use port numbers which are currently not in use, Server Groups are automatically updated.



13. Click **Next** until the section **Coherence Clusters**. Enter the following details:

- *Cluster Name:* defaultCoherenceCluster
- *Cluster Port:* 7674

**NOTE:** Use port numbers which are currently not in use.

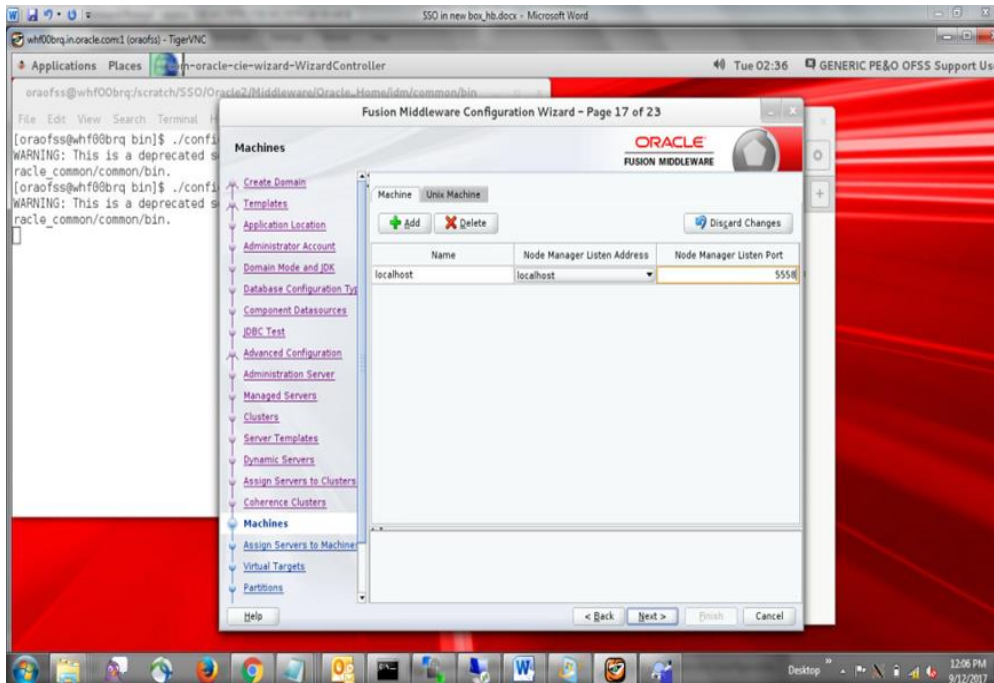


14. If it is windows machine click machine

:

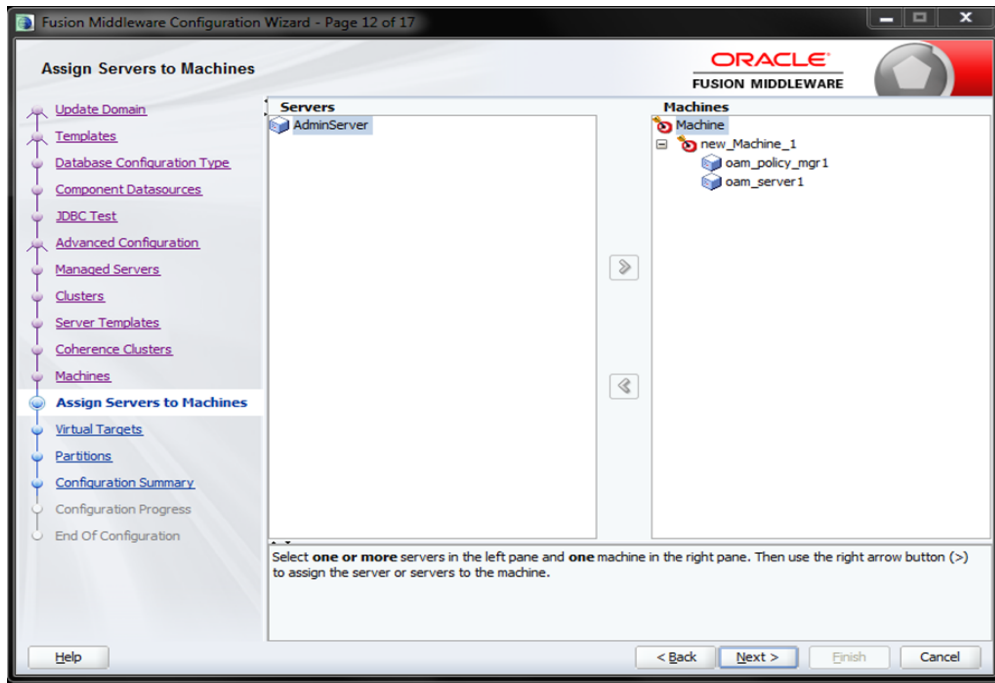
If it is a UNIX machine click UNIX machine

- *Name:* localhost
- *Node Manager Listen Address:* localhost
- *Node Manager Listen Port:* 5558

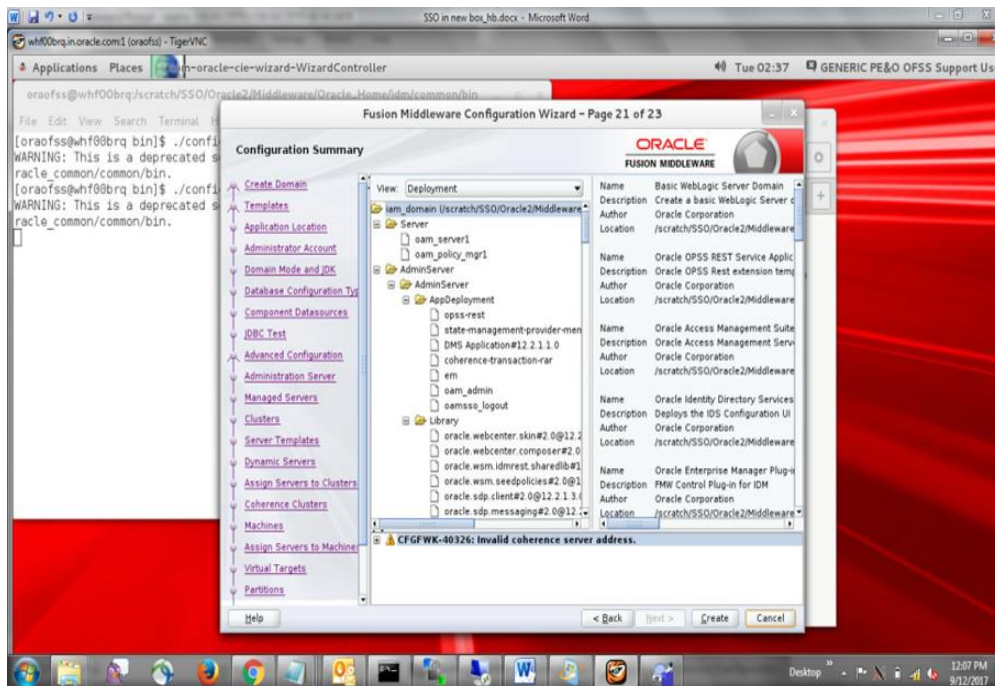




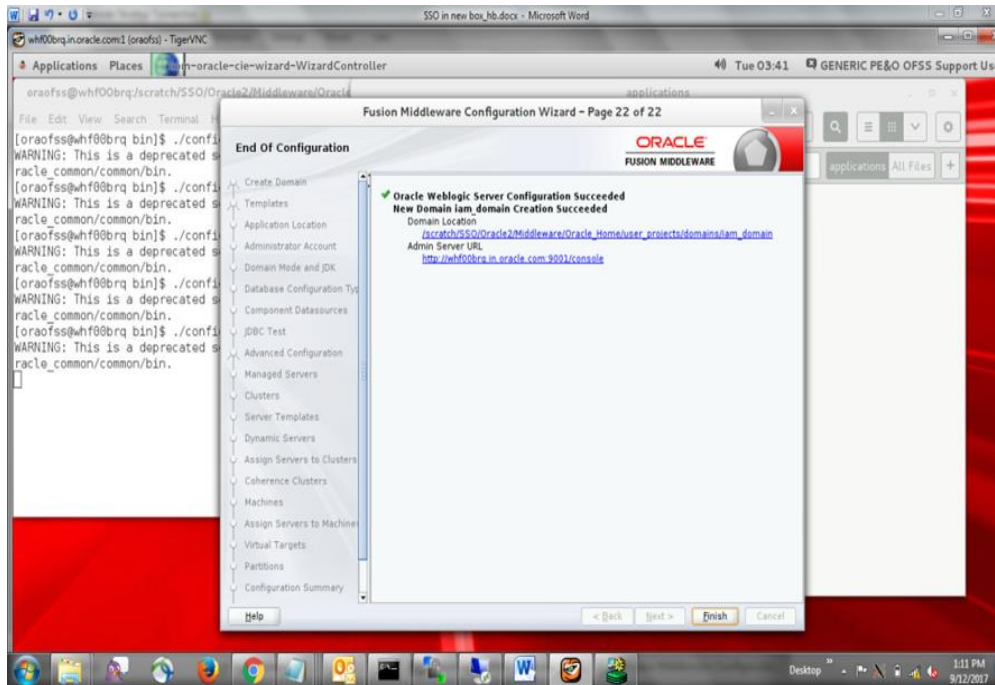
15. Assign managed servers to machines and click **Next**.



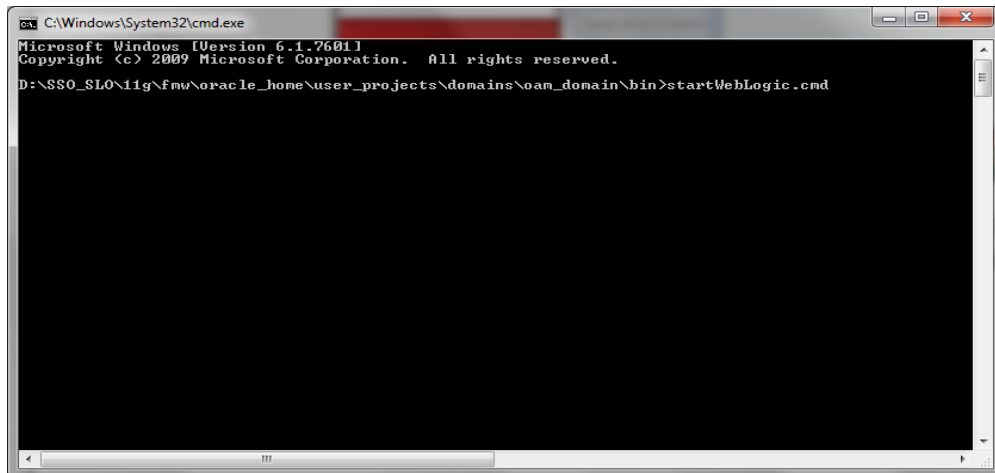
16. Review the **Configuration Summary** and click **Create**.



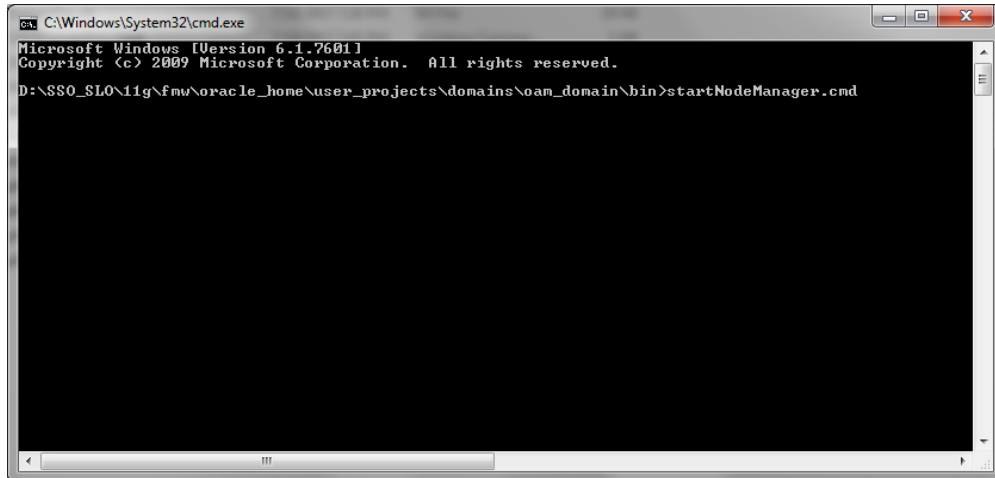
17. Take a note of the newly created domain details and click **Finish**.



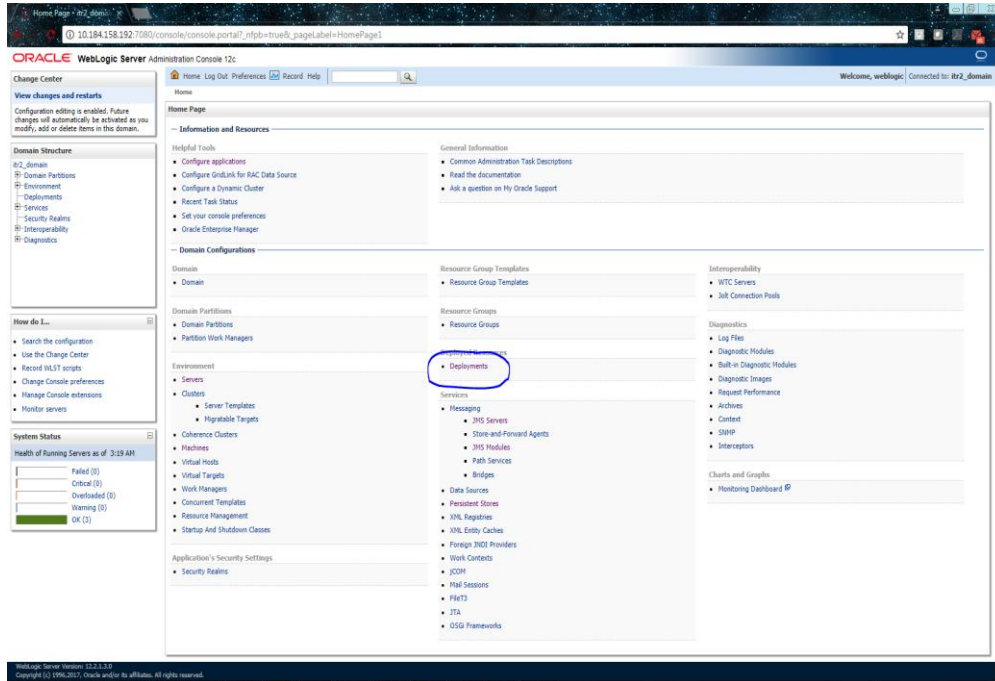
18. Open cmd (Command Prompt) as Administrator in OIM domain path (For ex. ...\\oracle\_home\\user\_projects\\domains\\oim\_domain\\bin) and run **startWebLogic.cmd** file.



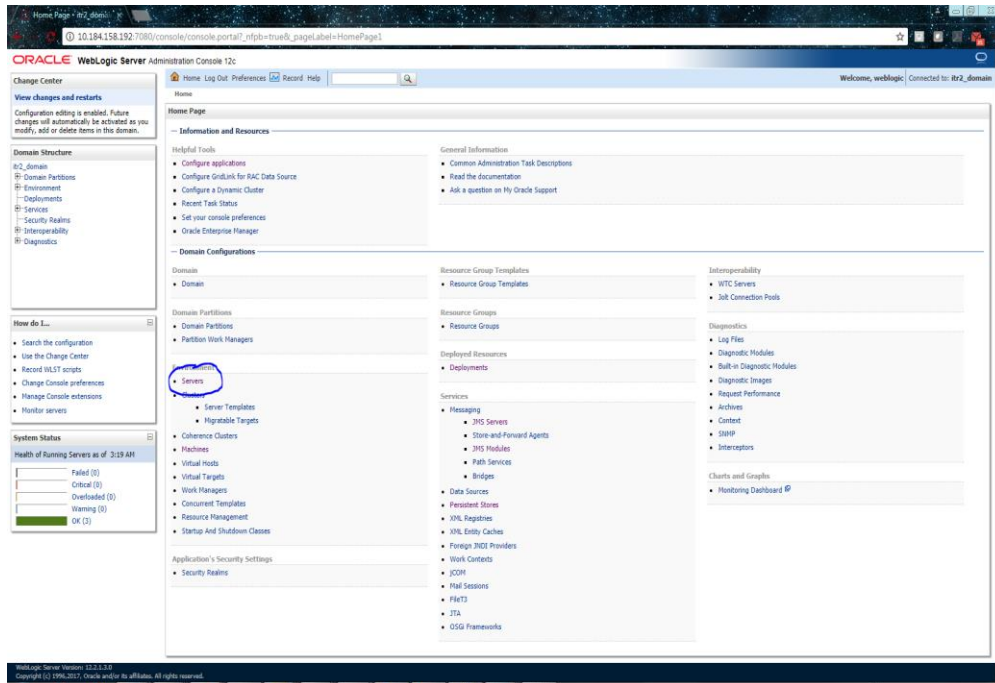
19. After the server moves into **Running Mode**, open another command prompt at the same location and run **startNodeManager.cmd** file.



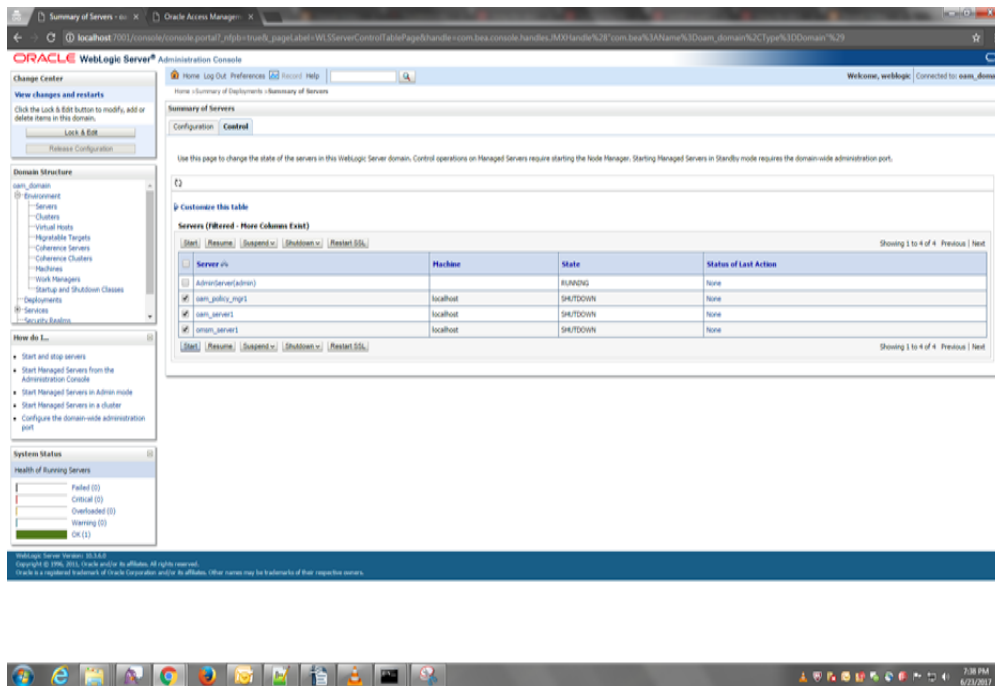
20. Open the following link in any web browser  
<http://<IP Address>:<OIM Port No>/console>



21. Click on **Servers**.

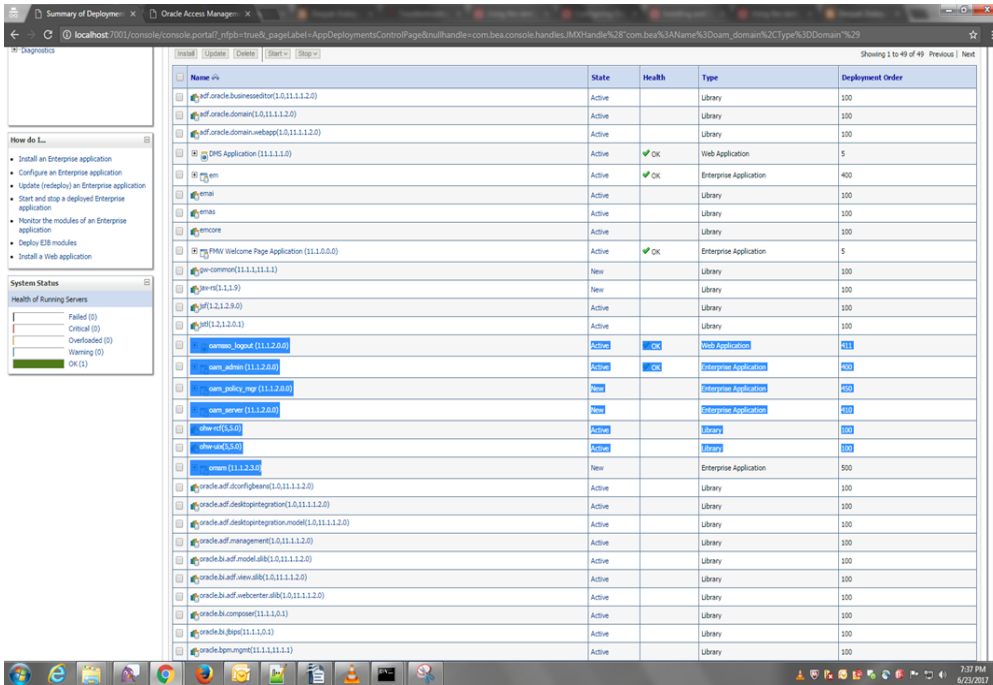


22. Click on **Control** tab, select servers except Adminserver and click **Start** button.



23. This task might take time, wait until the servers' state change to **RUNNING**.

Goto webllogic console home page and click on deployments and Check the health of OAM related Deployments.



24. Check oamconsole URL [http://<IP\\_Address>:<OIM\\_Port\\_No>/oamconsole](http://<IP_Address>:<OIM_Port_No>/oamconsole) and u are able to login

## 3. Oracle Unified Directory (OUD) Installation

### 3.1 Introduction

This chapter details out the installation steps for Oracle Unified Directory (OUD).

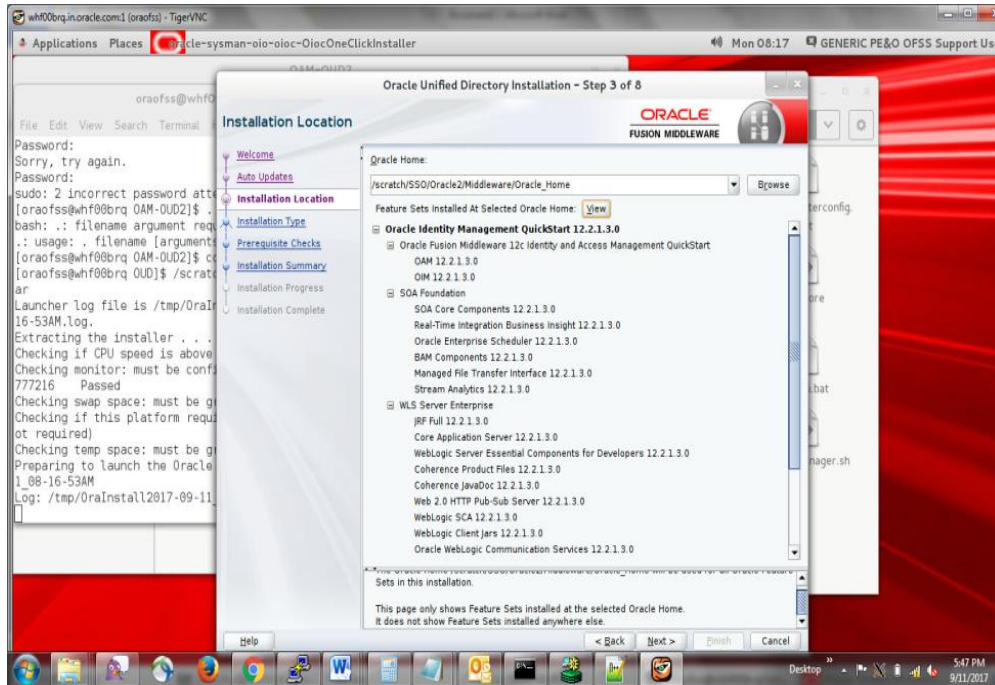
### 3.2 Installation Steps

1. Execute the `fmw_12.2.1.3.0_oud.jar` file by running the following command in Command Prompt.

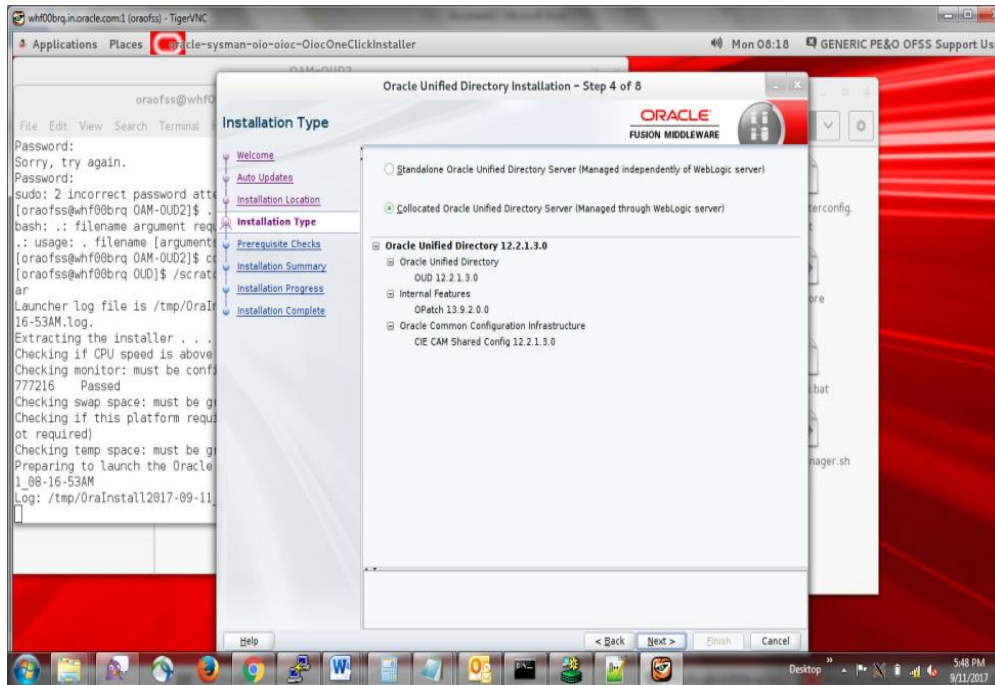
```
>java -jar fmw_12.2.1.3.0_oud.jar
```



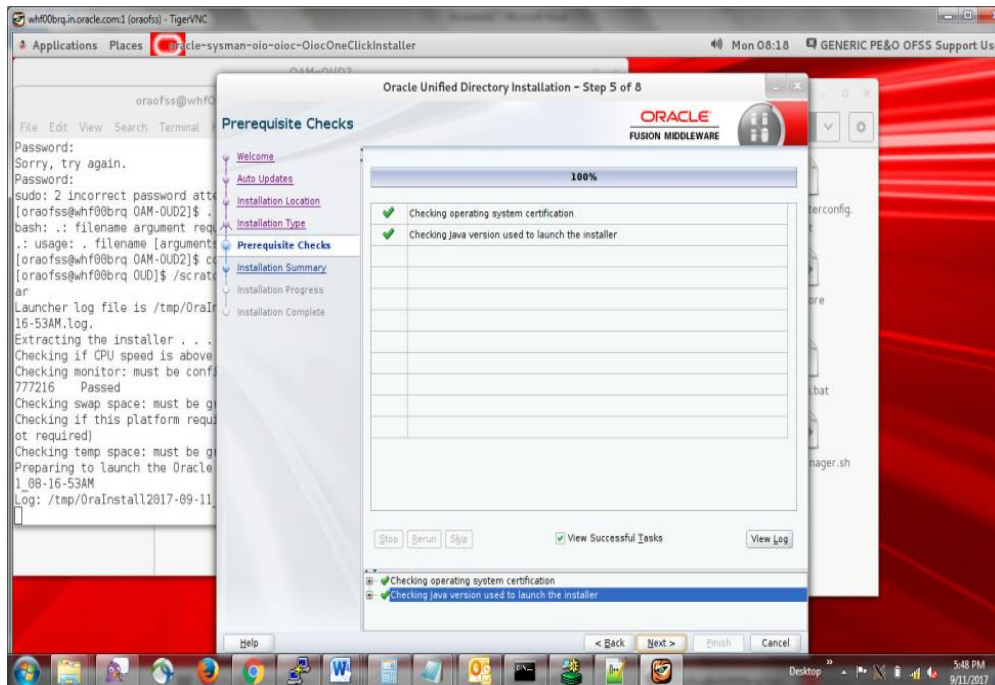
2. Click **Next**.



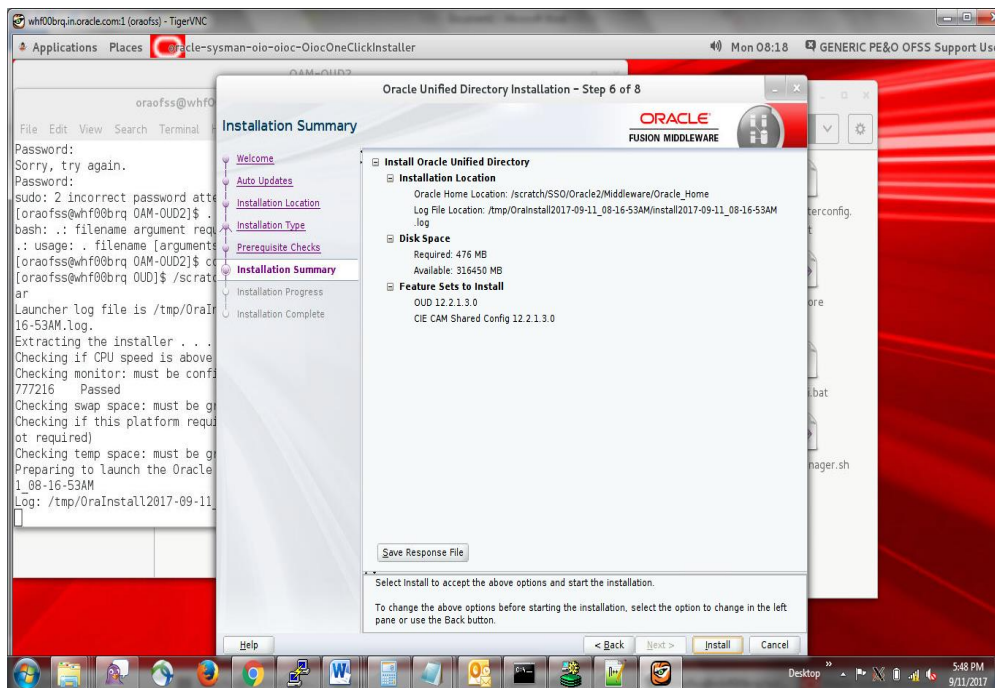
3. Enter Oracle Home path, where you have installed the FMW in the previous section and click **Next**.



4. Select **Collocated Oracle Unified Directory Server (Managed through Weblogic sever)** option and click **Next**.

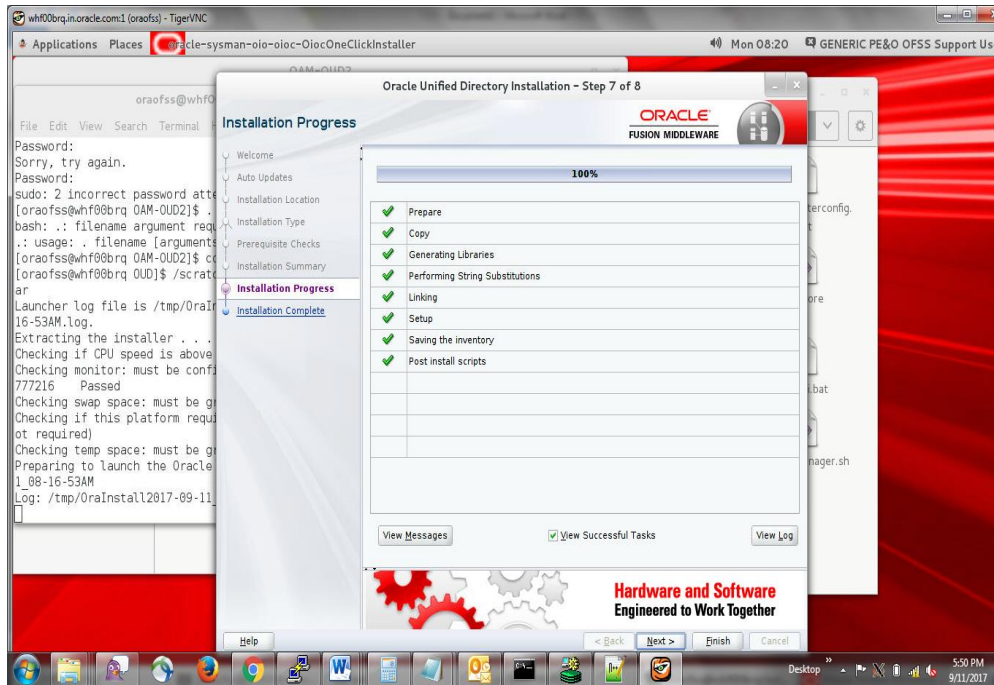


5. Click **Next** after the Prerequisites Check is successfully completed.

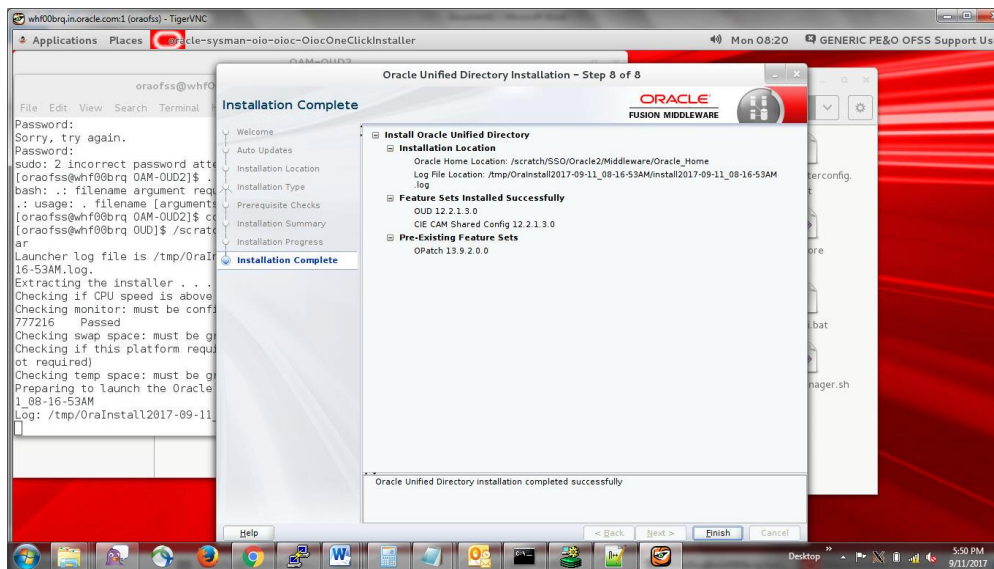


6. Review the Installation Summary and click **Install**.





7. Click **Next** when all the steps are marked with green ticks.

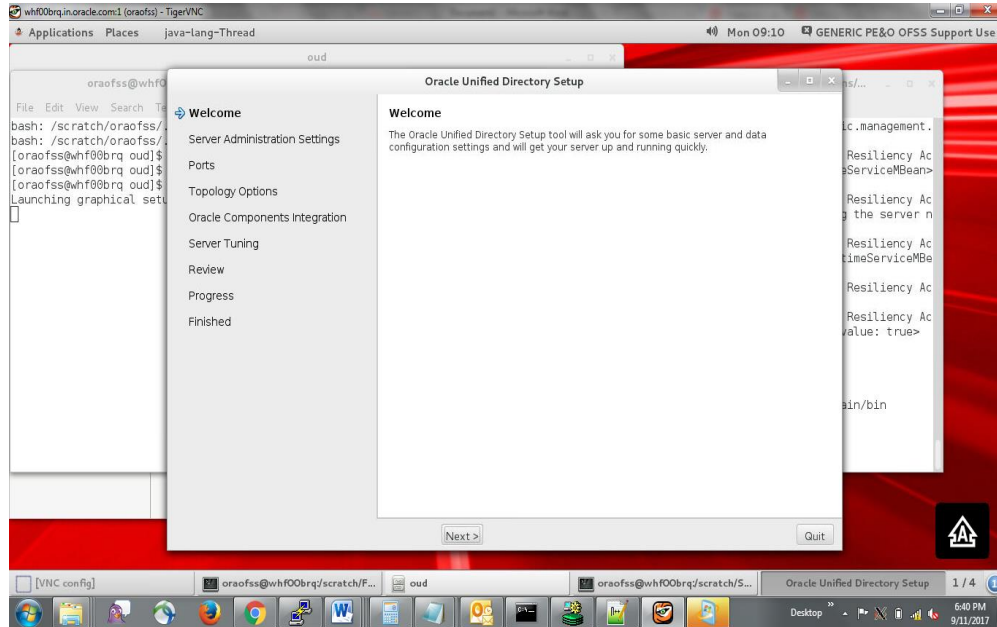


8. Click **Finish**.

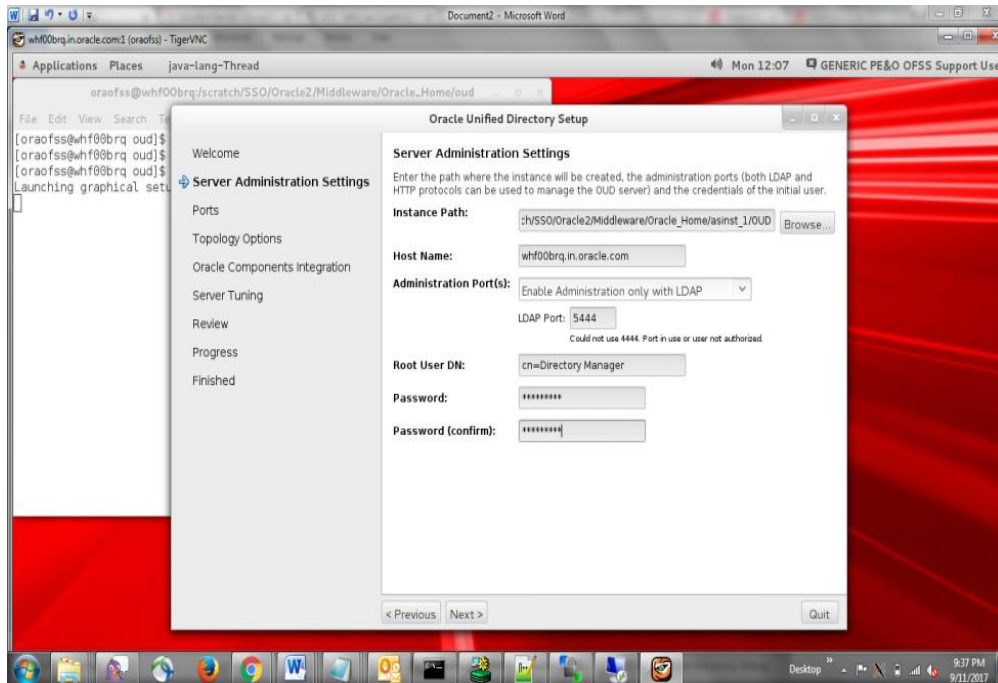
### 3.3 OD Setup Steps

1. Open cmd (Command Prompt) as Administrator in *oracle\_home\oud* folder and run **oud-setup.bat** file.

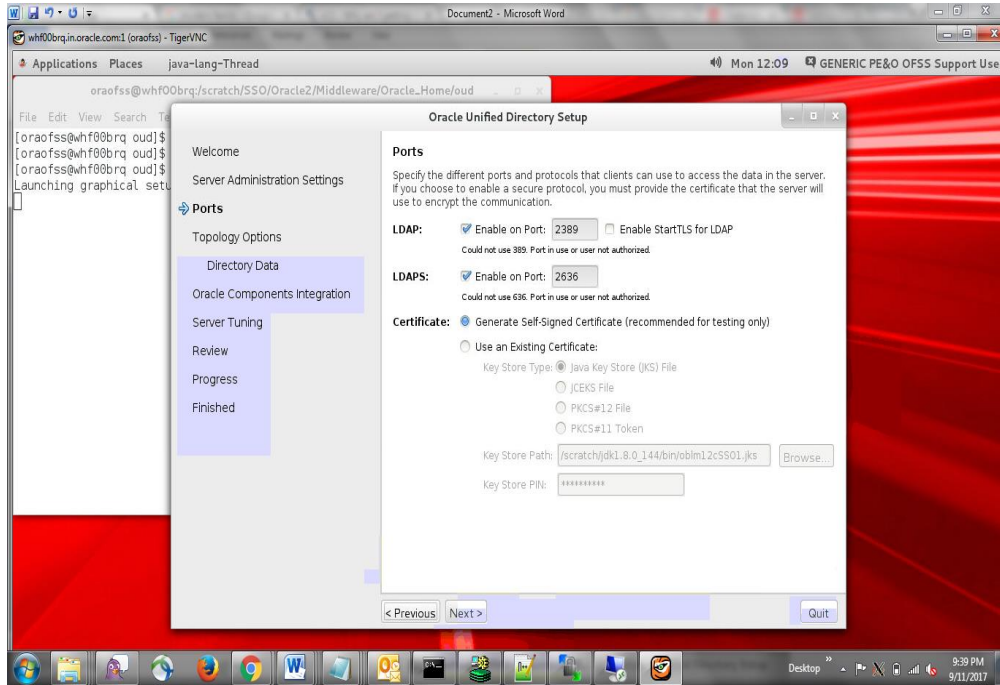
2. Click **Next**.



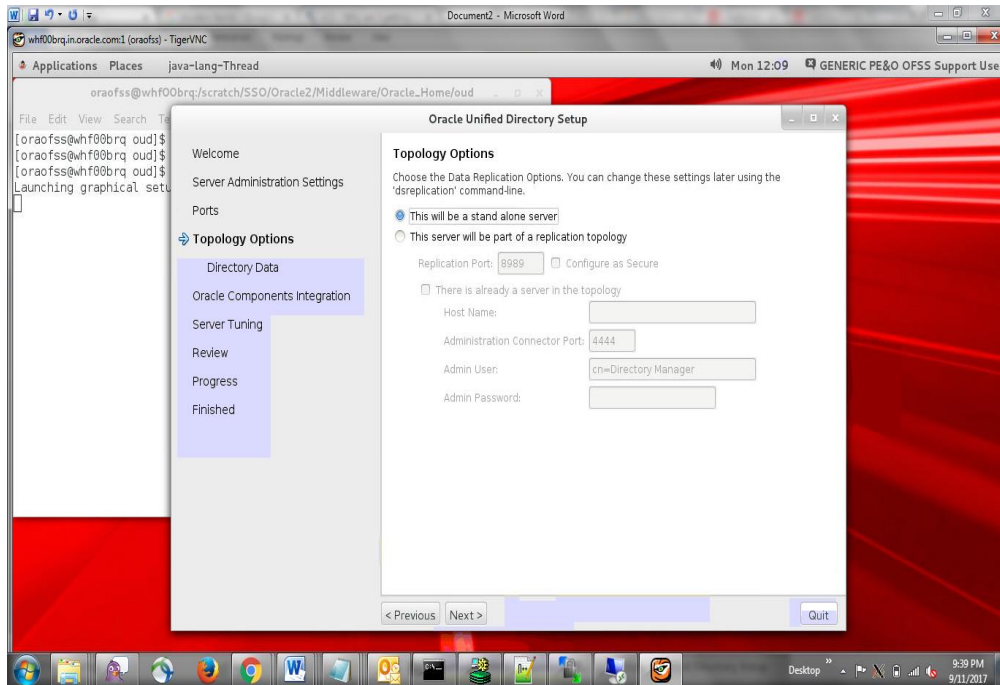
3. Enter the **Host Name, LDAP Port & Password** and click **Next**. Keep a note of Root User DN, administration port this will be used further.



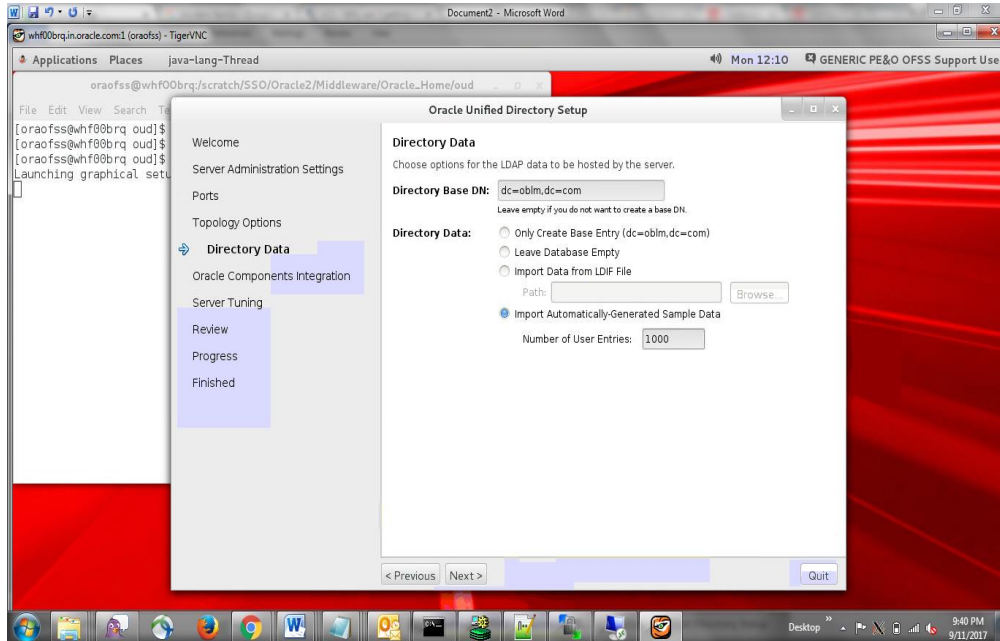
4. Enable **LDAP** and **LDAPS**, enter Port Numbers. **Select Generate Self-Signed Certificate** and click **Next**. Keep a note of LDAP Port this will be used further.



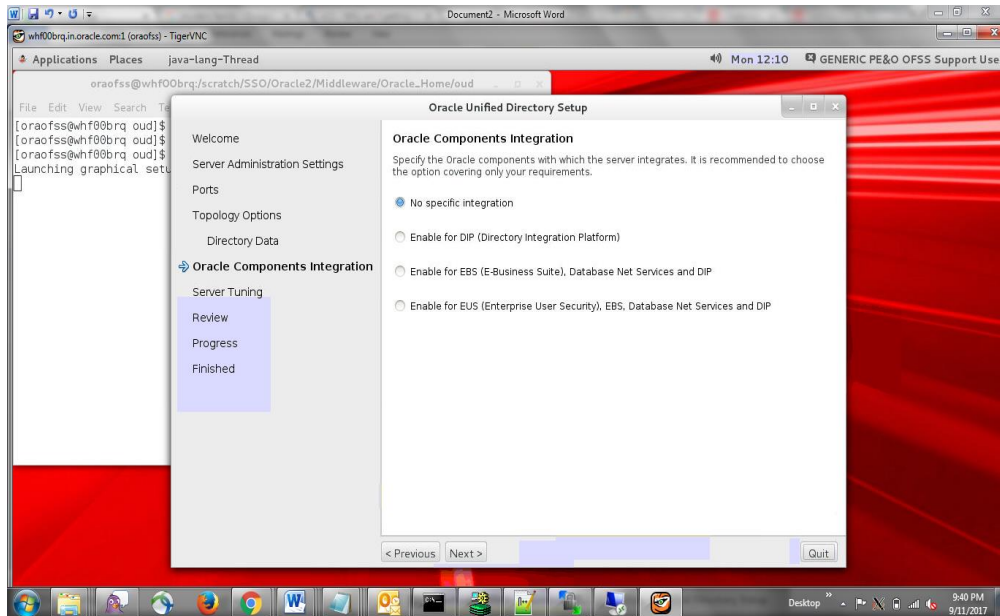
5. Select **This will be a stand alone server**. Click **Next**.



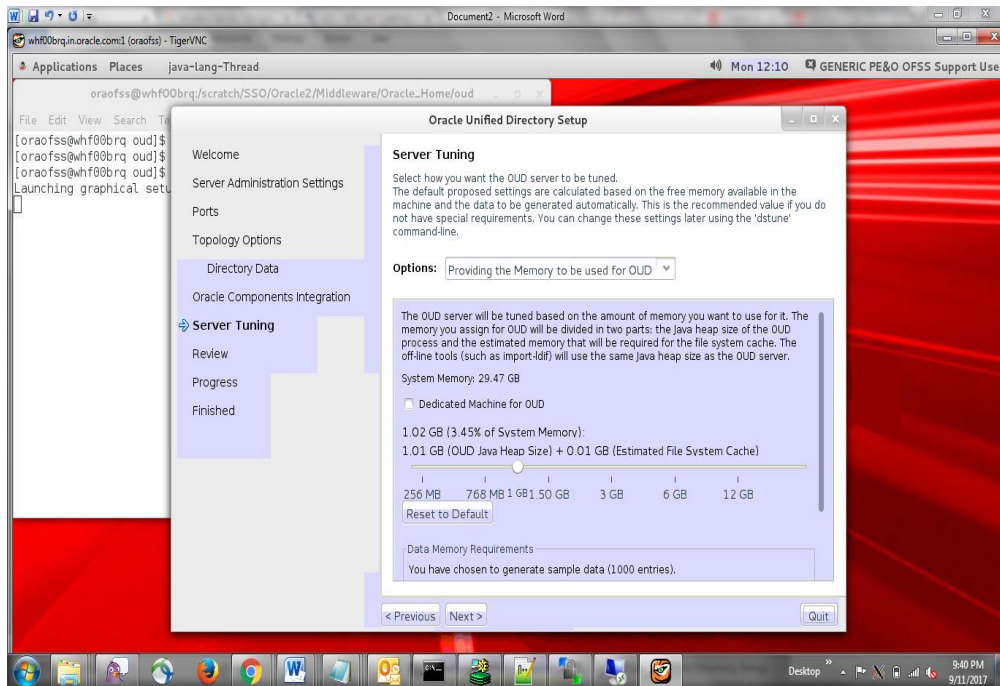
6. In Directory Base DN, set **dc=oblm, dc=com**. Select **Import Automatically-Generated Sample Data**. Set **Number of User Entries** to 1000 and click **Next**. Keep a note of Directory Base DN this will be used further.



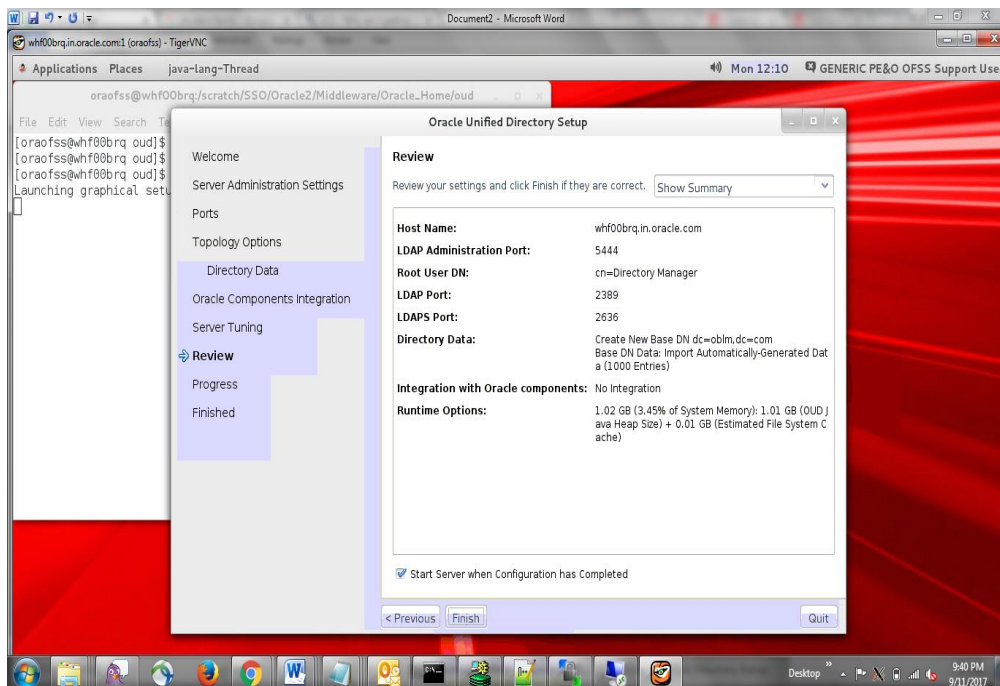
7. Select **No Specific Integration** and click **Next**.



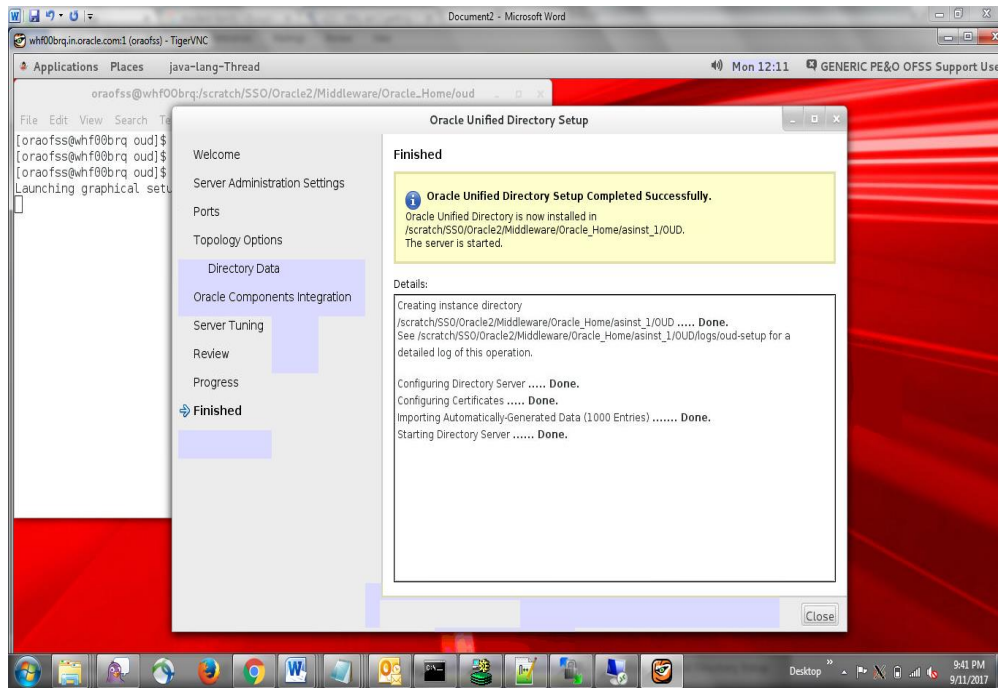
## 8. Click **Next**.



## 9. Review the summary, check **Start Server when Configuration has Completed** and click **Finish**.

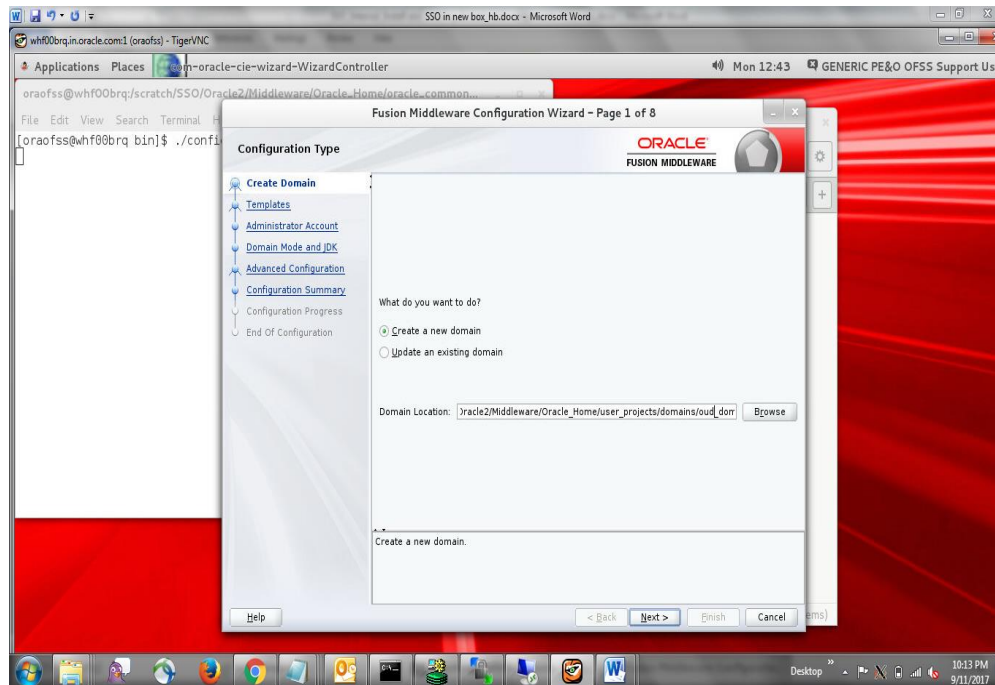


10. Once complete click **Close**.

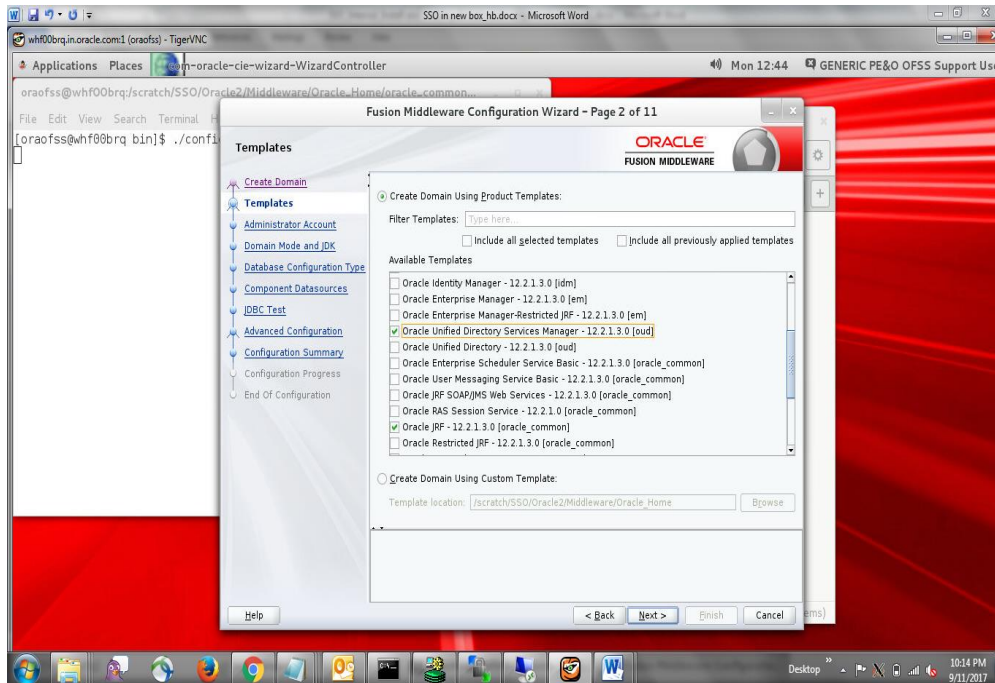


## 3.4 OUD Domain Creation Steps

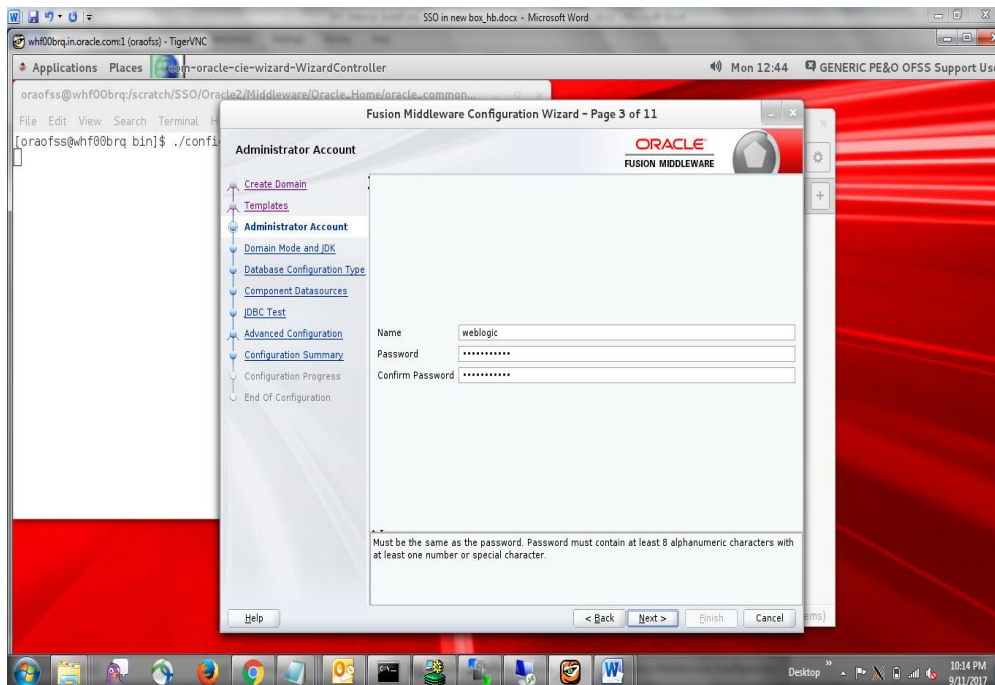
1. Create RCU as given in step 2.3.1
2. Open cmd (Command Prompt) as Administrator in *oracle\_home\oracle\_common\common\bin* folder and run **config.cmd** file. Enter the path where you want to create the domain and the domain name (**For ex. oud\_domain**).



3. Select the Templates as given below:
  - Basic Weblogic Server Domain - 12.2.1.3.0 [wlserver]
  - Oracle Unified Directory Services Manager - 12.2.1.3.0 [oud]
  - Oracle JRF - 12.2.1.3.0 [oracle\_common]

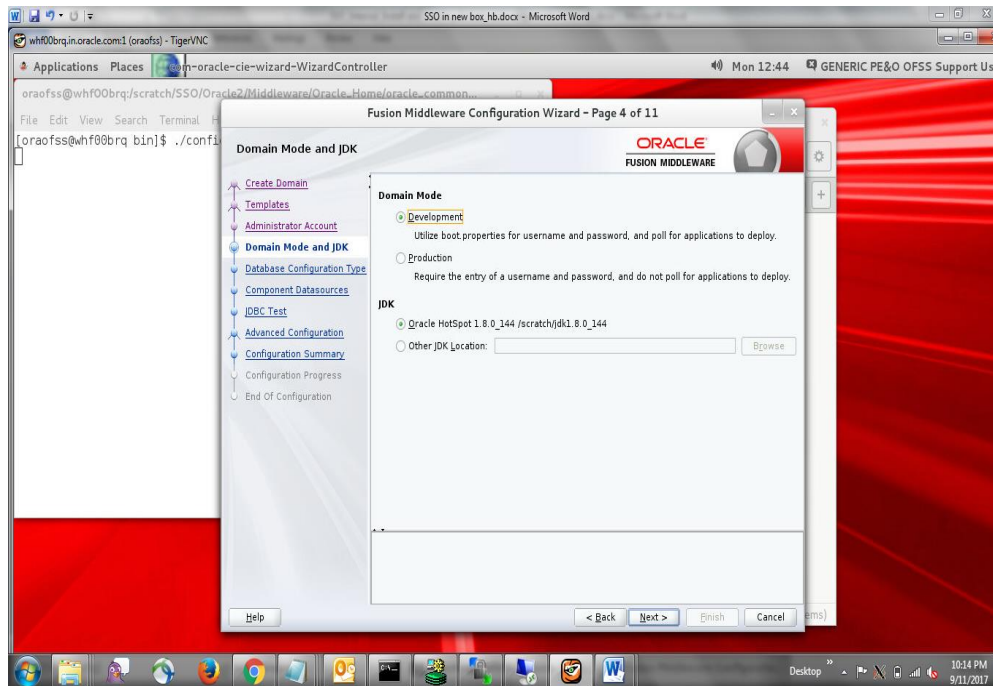


4. Enter **Name** and **Password**, this credentials will be used to login into OUD Domain Console. **Please remember this User Name and Password as these will be used in many places.**





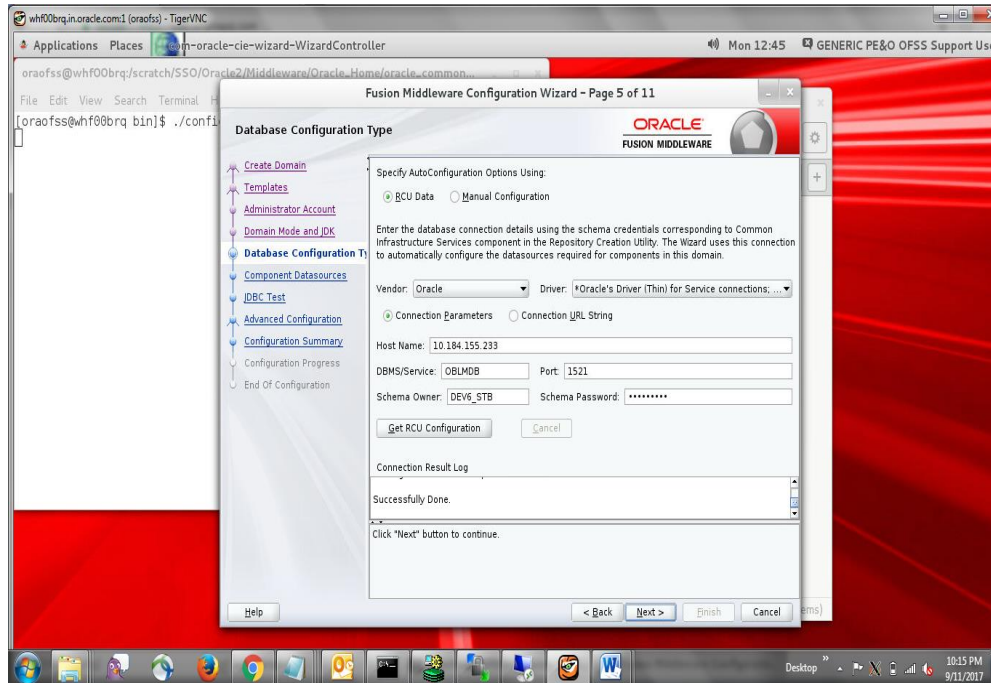
5. Select **Development** as Domain Mode and latest **JDK**. Click **Next**.



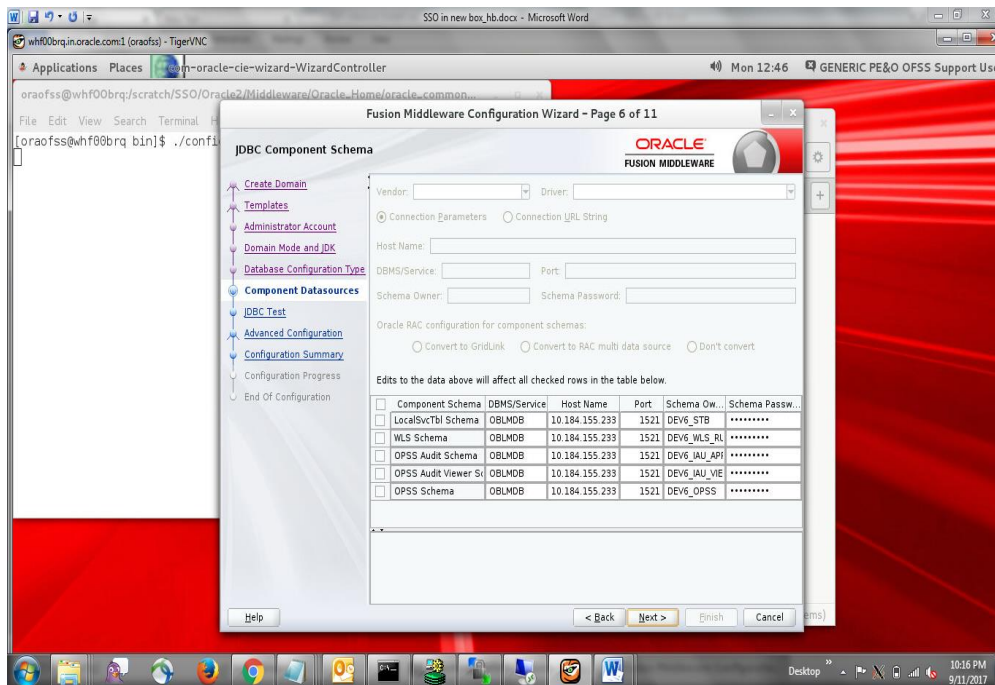
6. Database Configuration Type Screen will appear, Select **RCU Data**. Give the RCU (Repository Creation Utility) Details that you have created already for OUD. Enter the rest of the details as follows:

- *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 DEV6 is the Schema Owner, suffix with **\_STB** it will be DEV6\_STB as Schema Owner
- *Schema Password:* Enter the password as given while creating the RCU

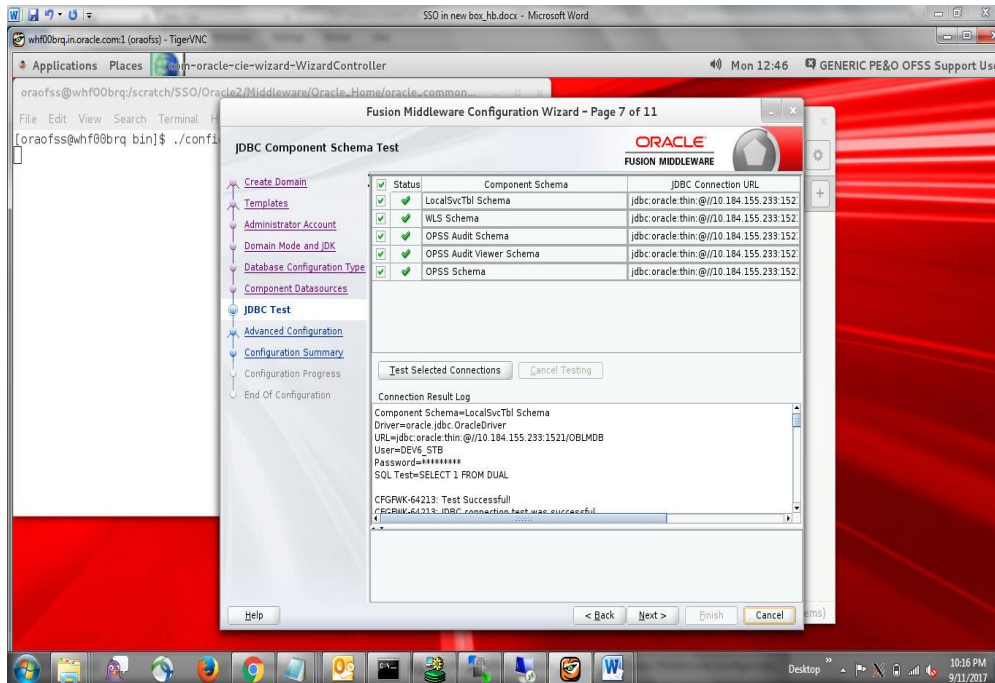
Click on **Get RCU Configuration**, if successfully done move to **Next** Step.



7. Click **Next**.

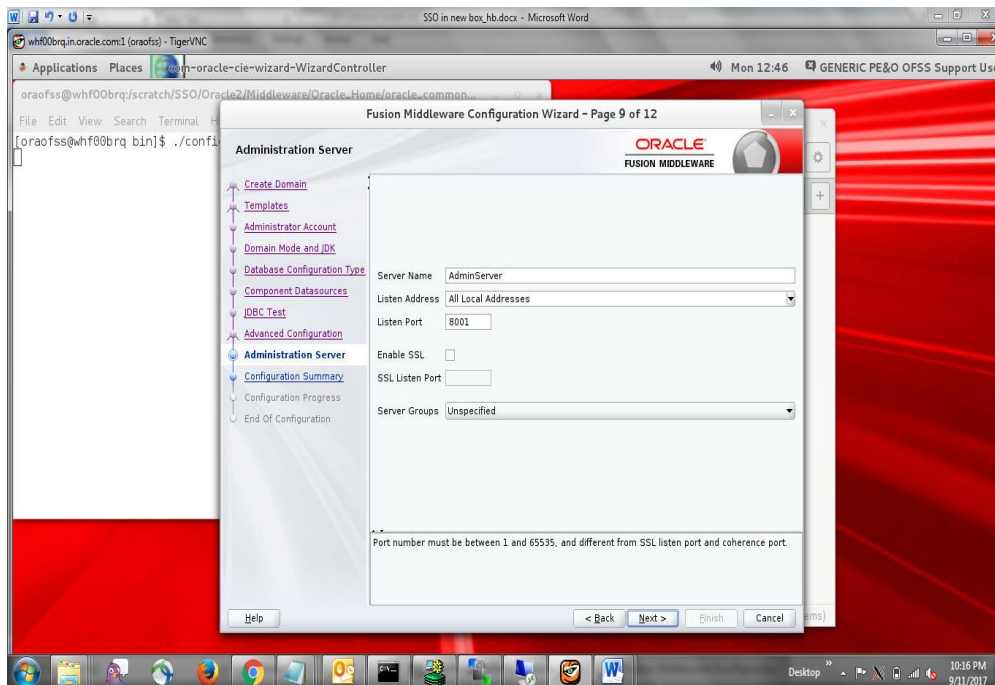


8. Click **Next** once JDBC Test for all the components are successfully.

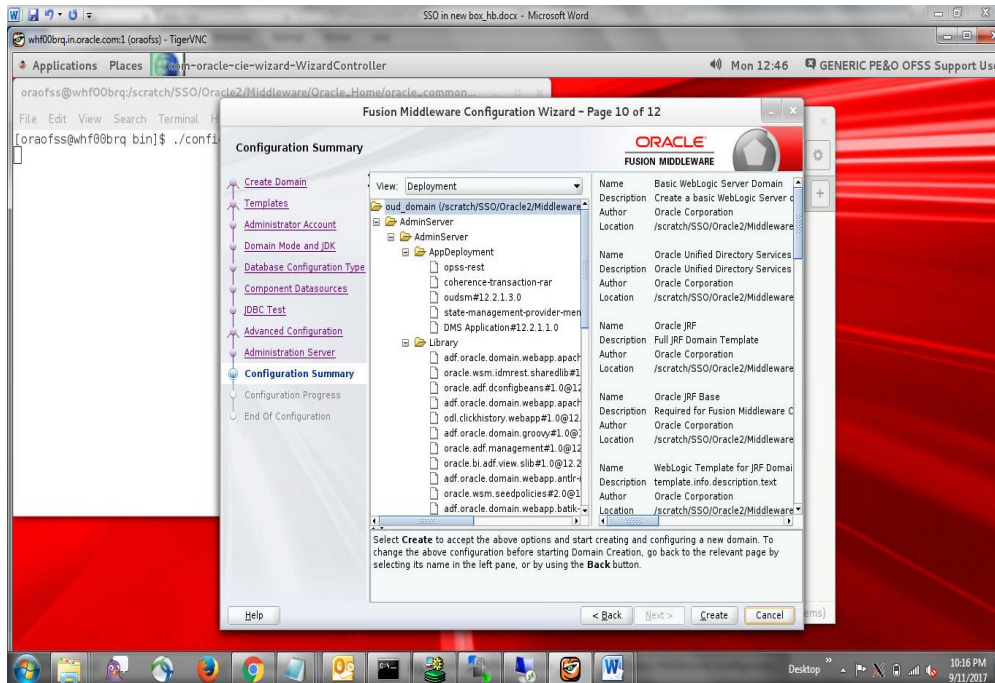


9. Enter the following details and leave other fields empty:

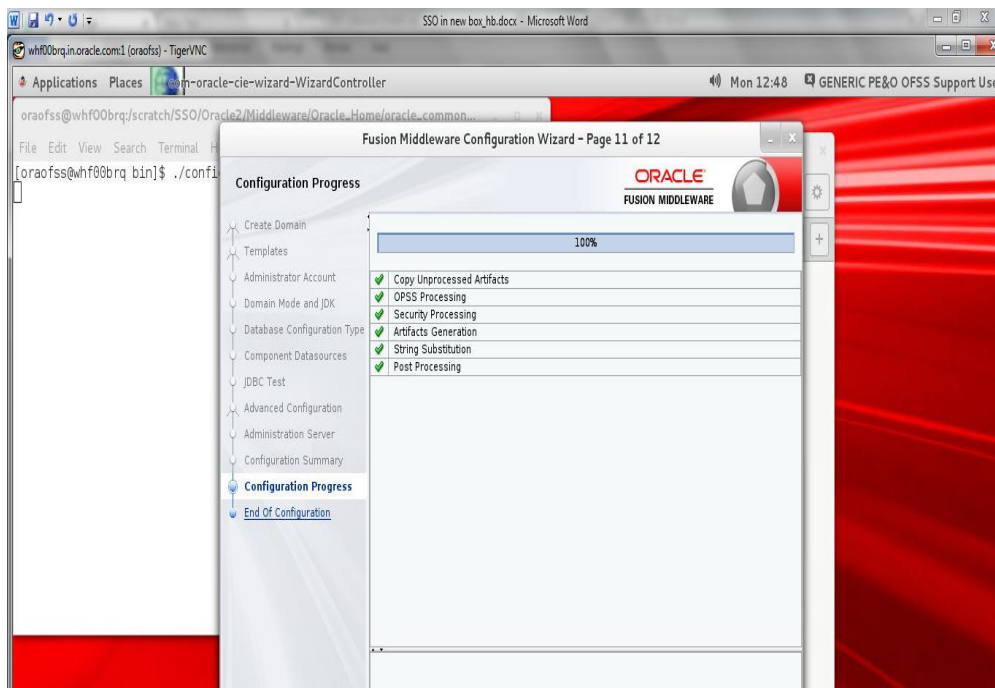
- Server Name: AdminServer
- Listen Address: All Local Addresses
- Listen Port: Enter any port number which is not in use (**For ex. 8001**)



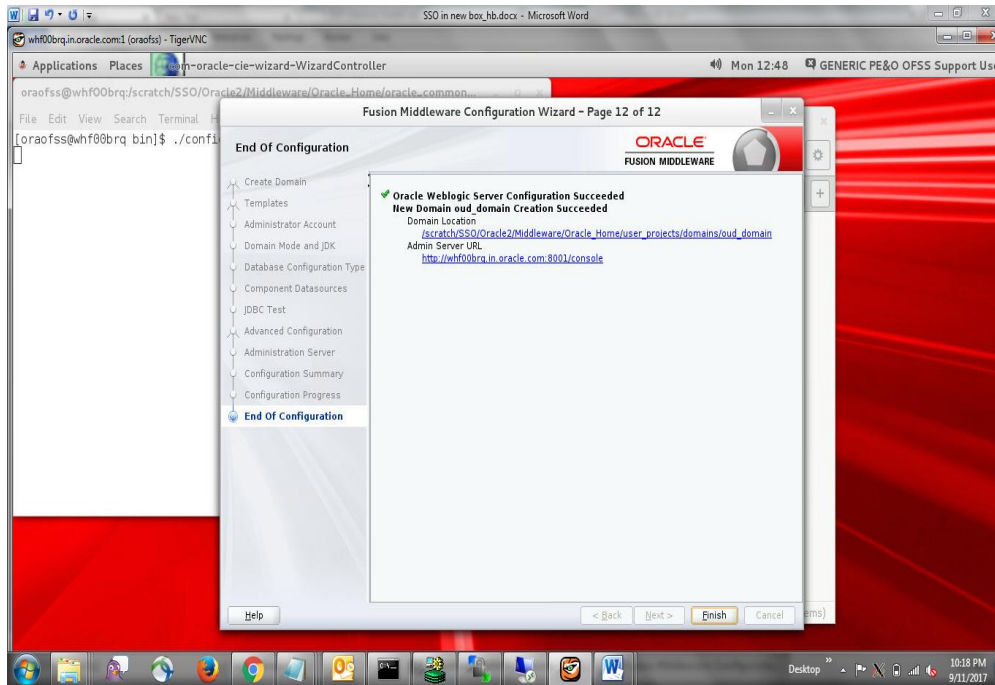
10. Review the Configuration Summary and click **Create**.



11. Click **Next** once the configuration completes successfully.



12. Take a note of the newly created domain details and click **Finish**.



### 3.5 Steps for OUDSM Status Checking

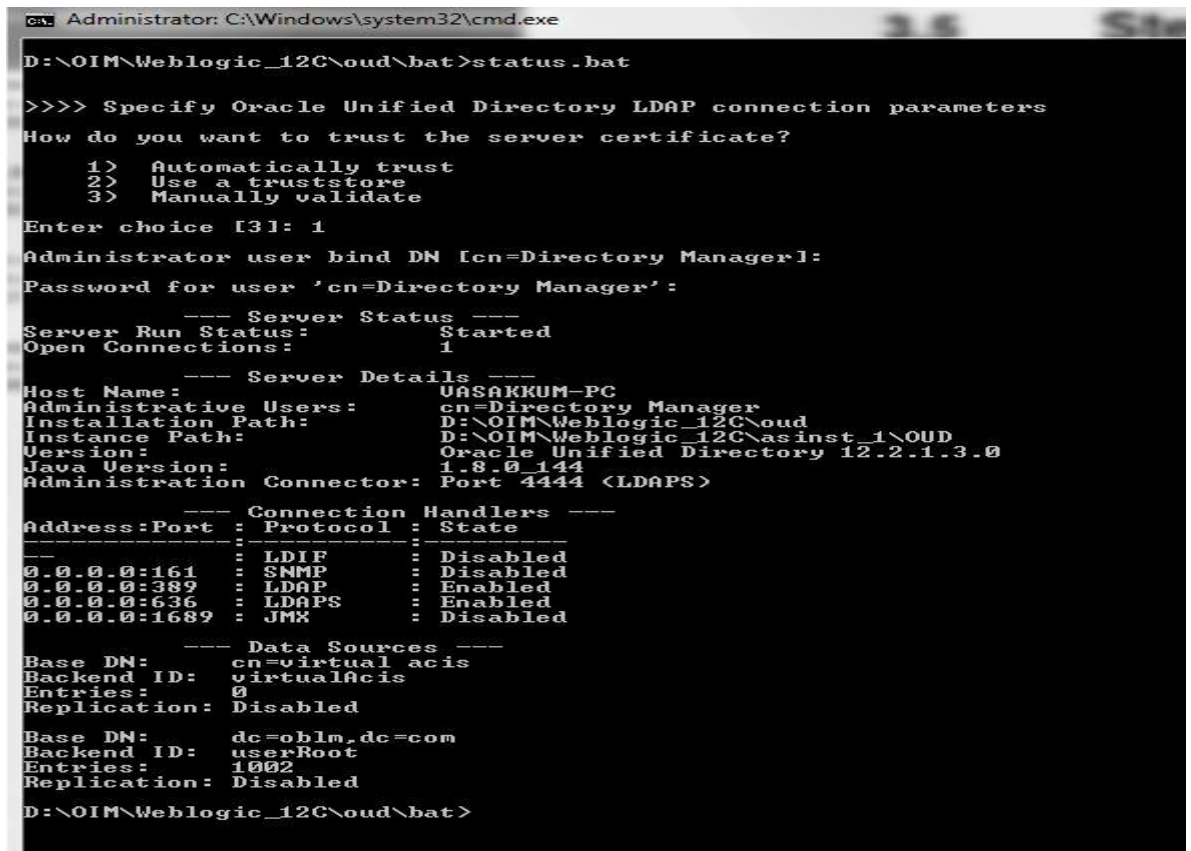
1. Open cmd (Command Prompt) as Administrator in OUD installed path (For ex. ...\\oracle\_home\\asinst\_1\\OUD\\bat) and run **start-ds** or **start-ds.bat** file.
2. Run status.bat

Enter choice as 1

Click enter in the administrator field

Type password and hit enter

Check server run status is started, ldap and ldaps are enabled



```
Administrator: C:\Windows\system32\cmd.exe
D:\>\OIM\Weblogic_12C\oud\bat>status.bat

>>>> Specify Oracle Unified Directory LDAP connection parameters
How do you want to trust the server certificate?
    1> Automatically trust
    2> Use a truststore
    3> Manually validate
Enter choice [3]: 1
Administrator user bind DN [cn=Directory Manager]:
Password for user 'cn=Directory Manager':

--- Server Status ---
Server Run Status:      Started
Open Connections:      1

--- Server Details ---
Host Name:              UASAKKUM-PC
Administrative Users:   cn=Directory Manager
Installation Path:      D:\>\OIM\Weblogic_12C\oud
Instance Path:          D:\>\OIM\Weblogic_12C\asinst_1\OUD
Version:                Oracle Unified Directory 12.2.1.3.0
Java Version:           1.8.0_144
Administration Connector: Port 4444 <LDAPS>

--- Connection Handlers ---
Address:Port           : Protocol : State
---
0.0.0.0:161            : LDIF   : Disabled
0.0.0.0:389            : SNMP   : Disabled
0.0.0.0:389            : LDAP   : Enabled
0.0.0.0:636            : LDAPS  : Enabled
0.0.0.0:1689          : JMX    : Disabled

--- Data Sources ---
Base DN:                cn=virtual acis
Backend ID:              virtualacis
Entries:                 0
Replication:             Disabled

Base DN:                dc=oblm,dc=com
Backend ID:              userRoot
Entries:                 1002
Replication:             Disabled

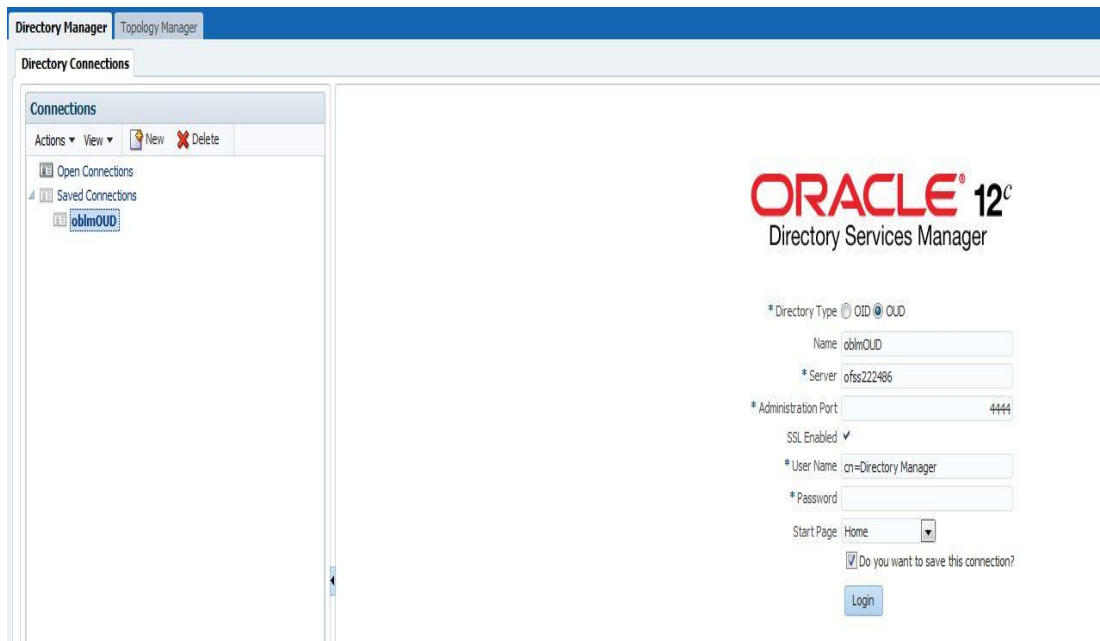
D:\>\OIM\Weblogic_12C\oud\bat>
```

3. Open cmd (Command Prompt) as Administrator in **OUD Domain path** (For ex. ...\\oracle\_home\\user\_projects\\domains\\oud\_domain\\bin) and run **startWeblogic.cmd** file.

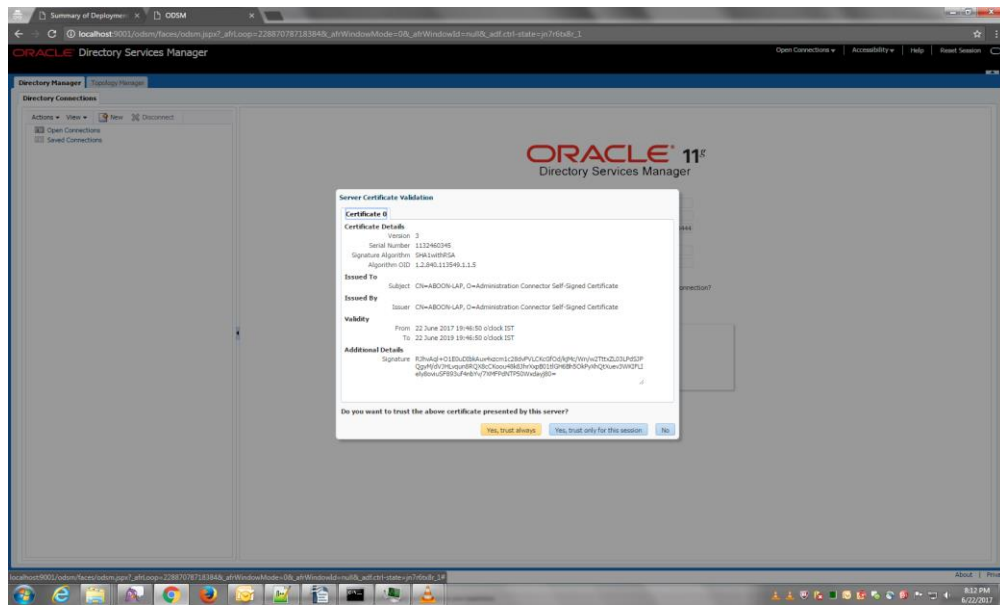
(startweblogic.sh in case of linux)

```
Administrator: Command Prompt
D:\>cd D:\SSO_SLO\11g\fmw\oracle_home\user_projects\domains\oud_domain\bin
D:\SSO_SLO\11g\fmw\oracle_home\user_projects\domains\oud_domain\bin>startWebLogic.cmd
```

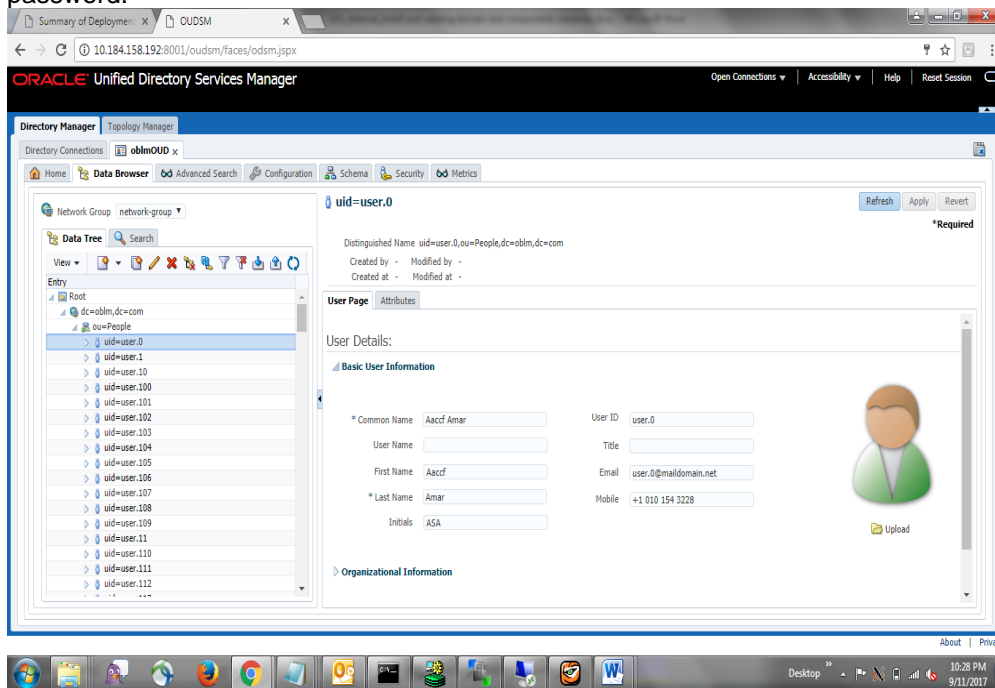
4. After the server moves into **Running Mode**, open the following link in any web browser.  
*[http://<IP\\_Address>:<OUD\\_Port\\_No>/oudsm/faces/odsm.jspx](http://<IP_Address>:<OUD_Port_No>/oudsm/faces/odsm.jspx)*
5. Enter name as **oblmOUD**, enter server name, User Name and Password, administration port same as given during OUD domain creation and click **Login**.



6. Click on **Yes, trust always**.



7. Click on **Data Browser** tab, the username and password maintained here will be used as SSO credentials. Go to organizational information and select password and change password.





---

## 4. OHS Installation

### 4.1 Introduction

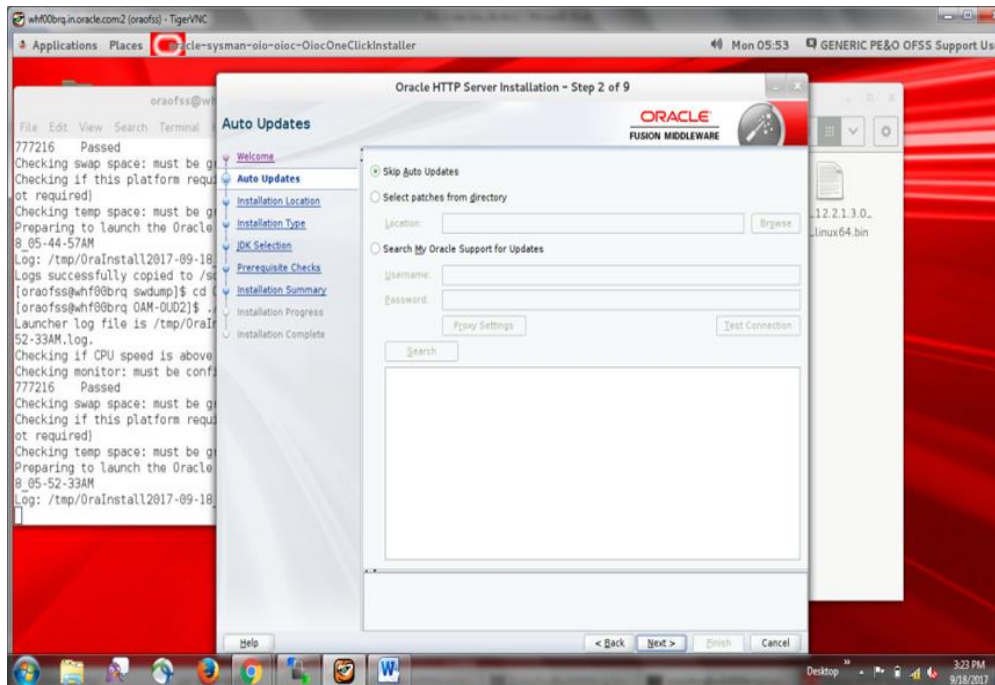
This chapter details out the installation steps for Oracle HTTP Server (OHS).

### 4.2 Installation Steps

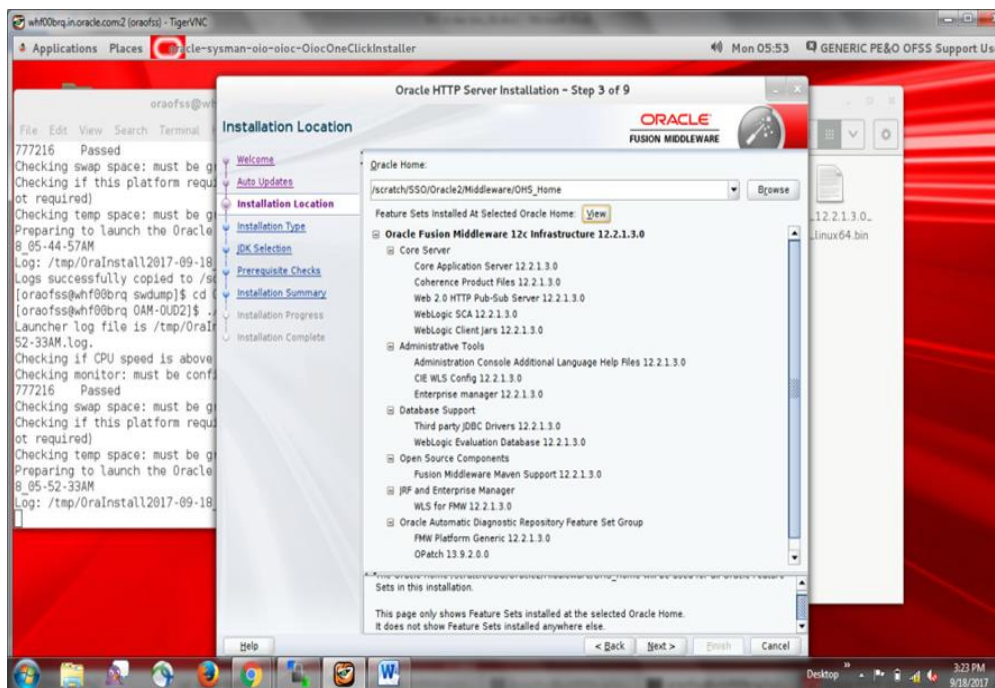
1. Install **FMW 12.2.1.3.0.infrastructure.jar** following the steps mentioned in Section 2 giving another different **oracle\_home** path other than previous install. This will be used solely for OHS' purpose.
2. Run OHS installation file **setup\_fmw\_12.2.1.3.0\_ohs\_win64.exe**.
3. Click **Next**.



#### 4. Select **Skip Auto Updates**



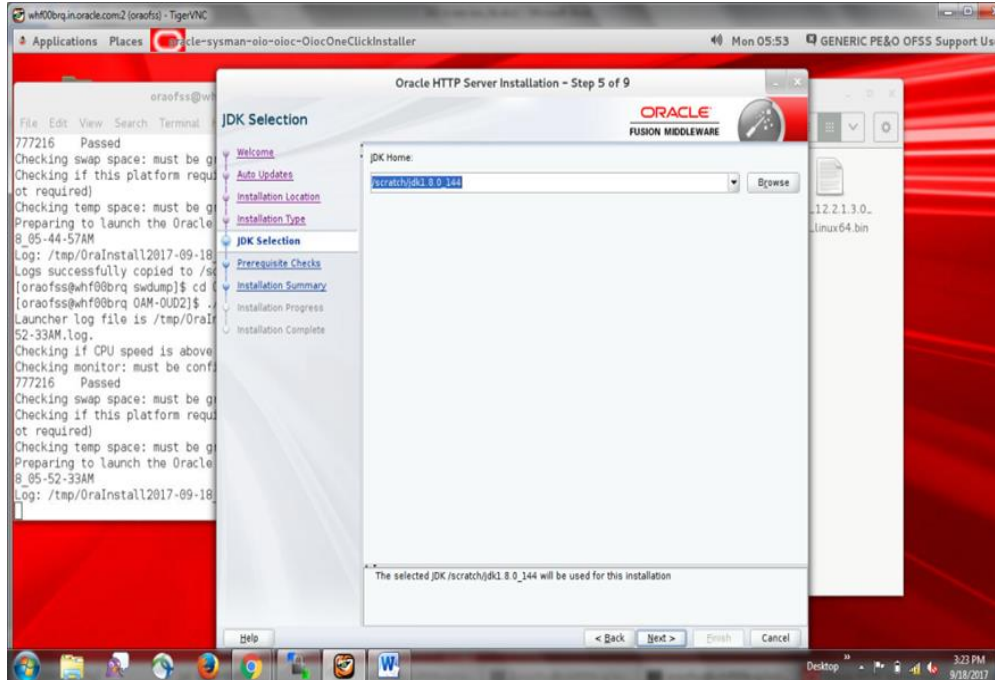
5. Enter Oracle Home path (**ohs\_home**), where you have installed FMW middleware and click **Next**.



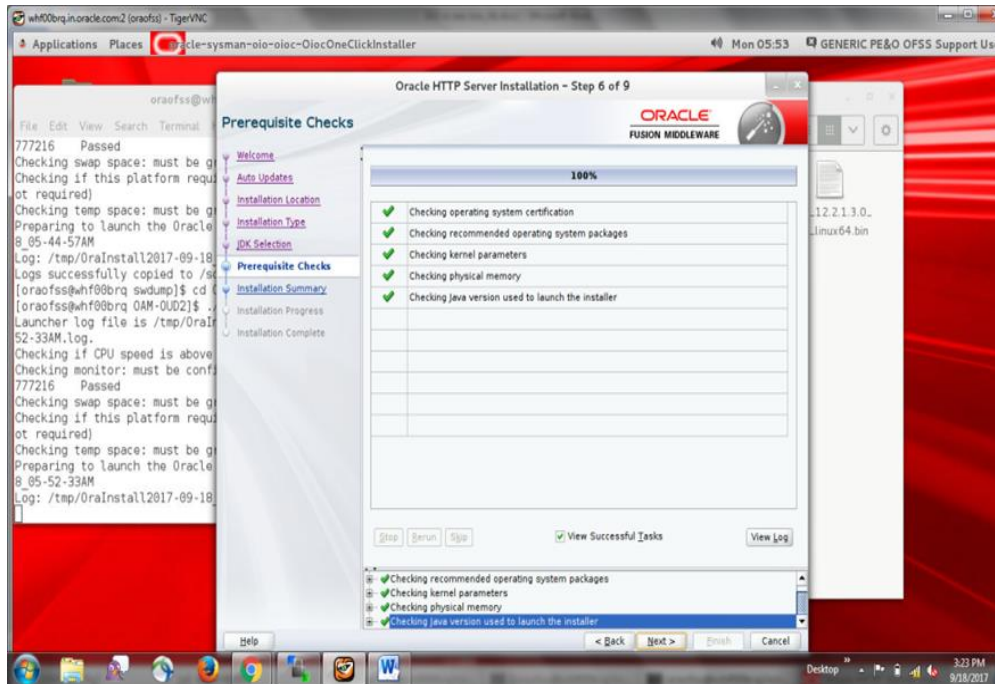
6. Select **Collocated HTTP Server (Managed through weblogic server)** option and click **Next**.



7. Enter jdk home path and click **Next**.



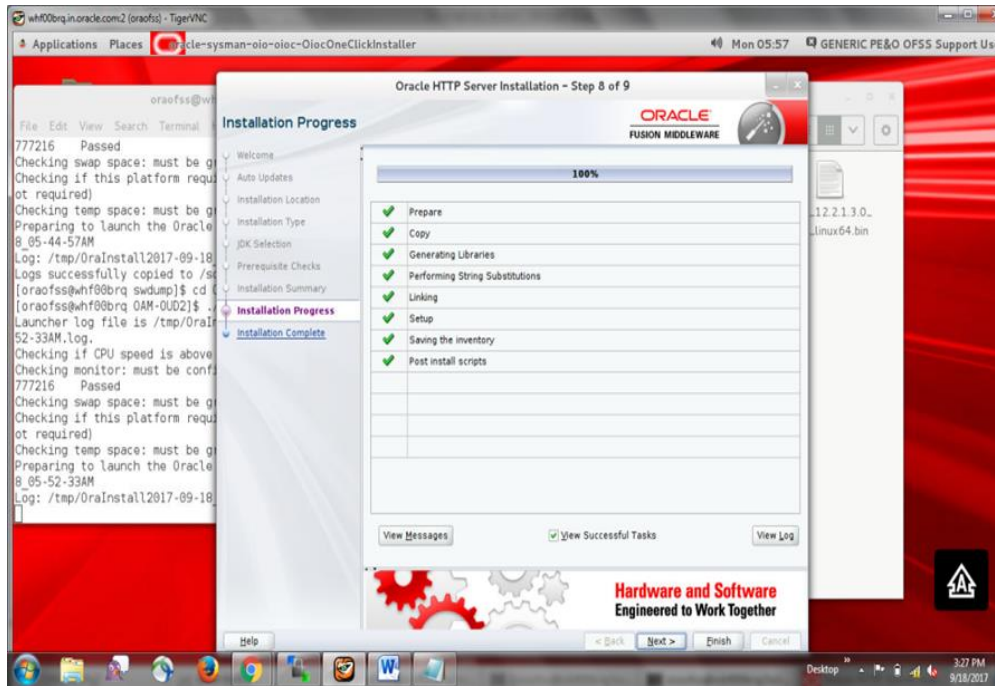
8. Click **Next** after the Prerequisites Check is successfully completed.



9. Review the **Installation Summary** and click **Install**.



10. Click **Next** once installation is done.



11. Review the details and click **Finish**.



## 4.3 OHS Domain Creation Steps

1. Navigate to ...`\ohs_home\oracle_common\common\bin\` folder in the cmd

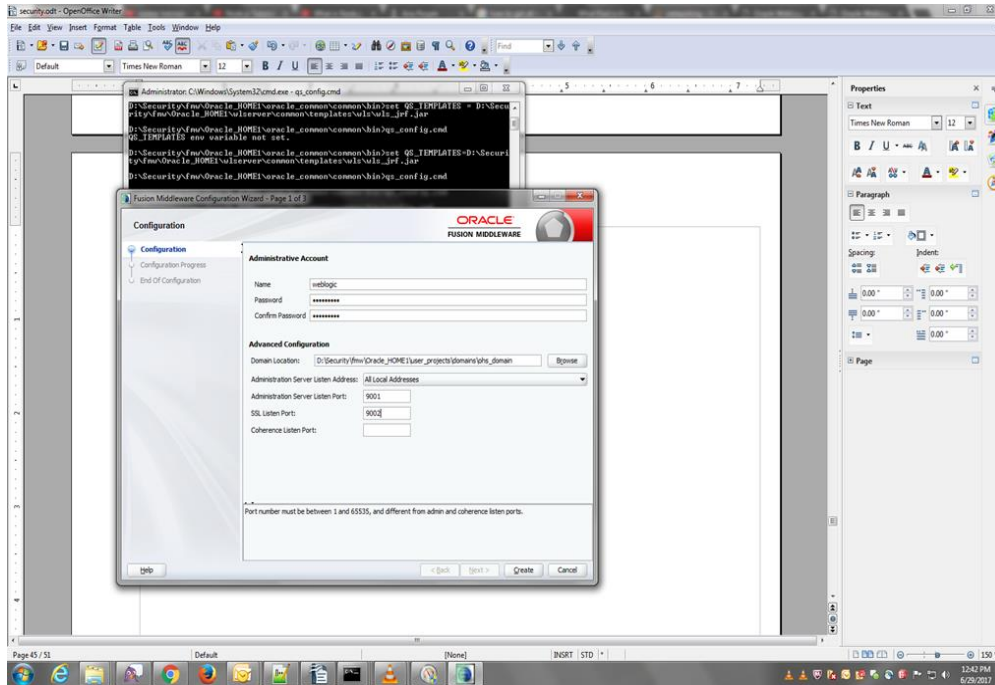
```
>set QS_TEMPLATES=<path-to-wls_jrf.jar>
```

(For ex. `set QS_TEMPLATES=D:\fmw\ohs_home\wlserver\common\templates\wls\wls_jrf.jar`)

execute `qs_config.cmd` file.

Enter **Name**, **Password**, **Domain Location**, **Port Numbers** and click **Create**.

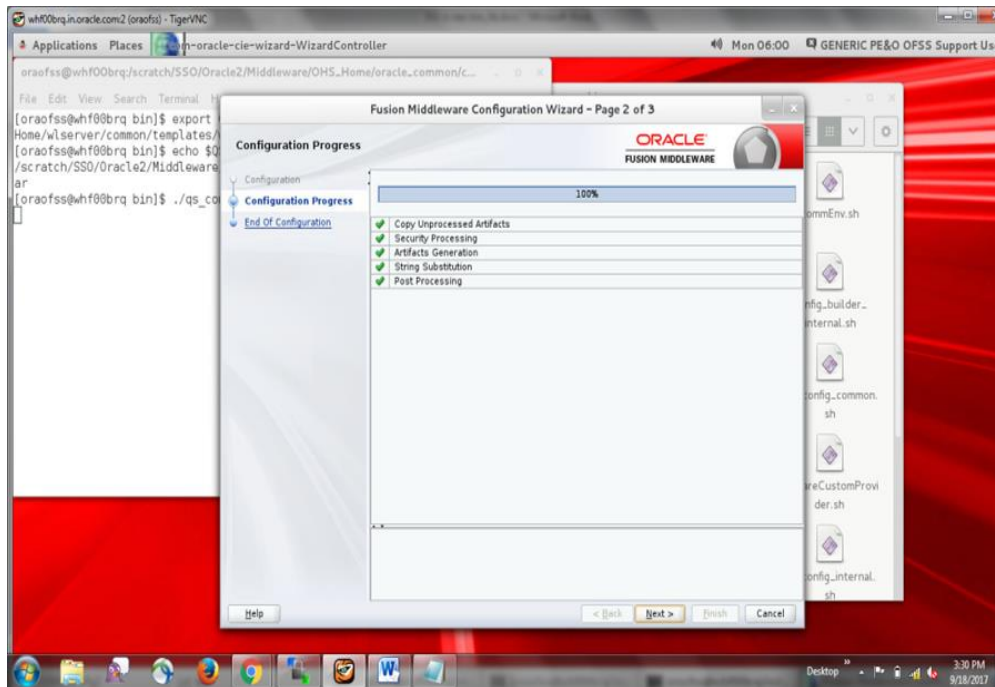
**NOTE:** Use port numbers which are currently not in use. Linux users do the following



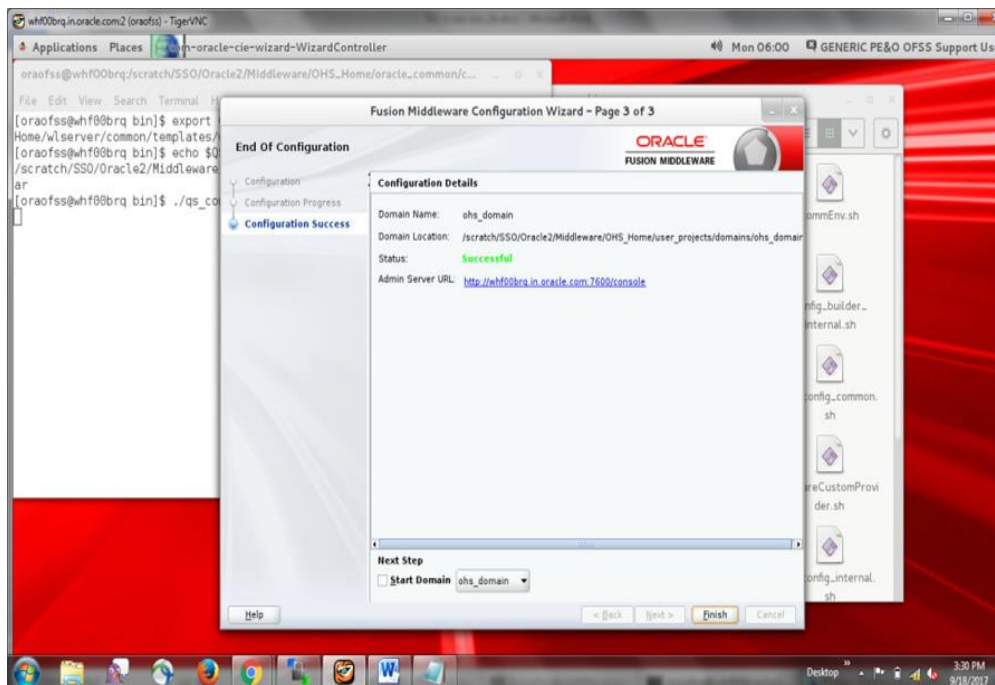
For Linux set as below



2. Click **Next** after configuration finishes.

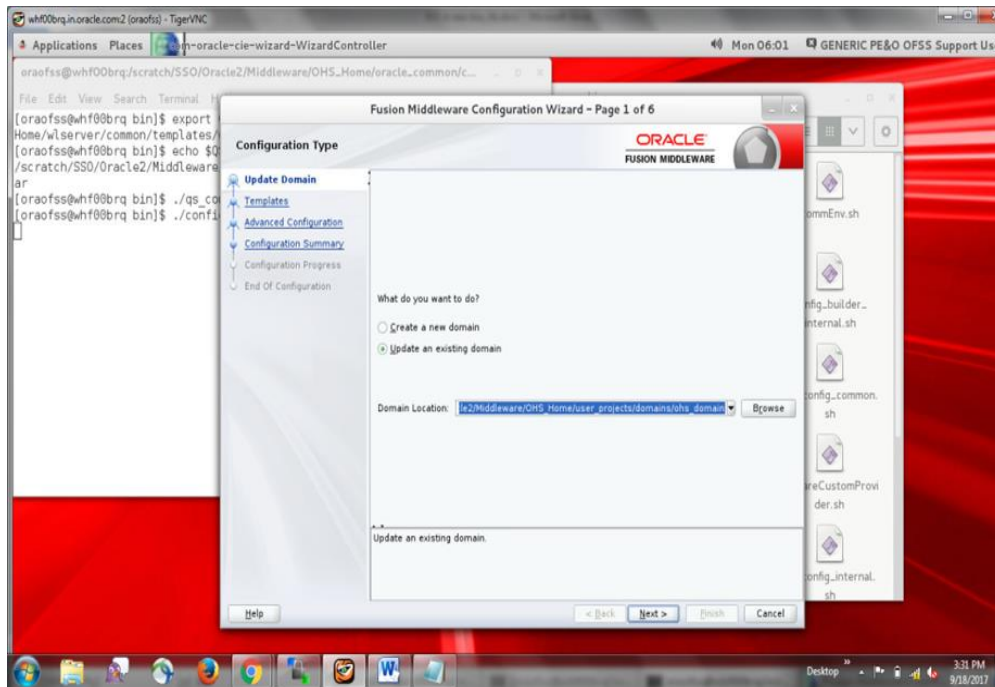


3. Review the domain details and click **Finish**.

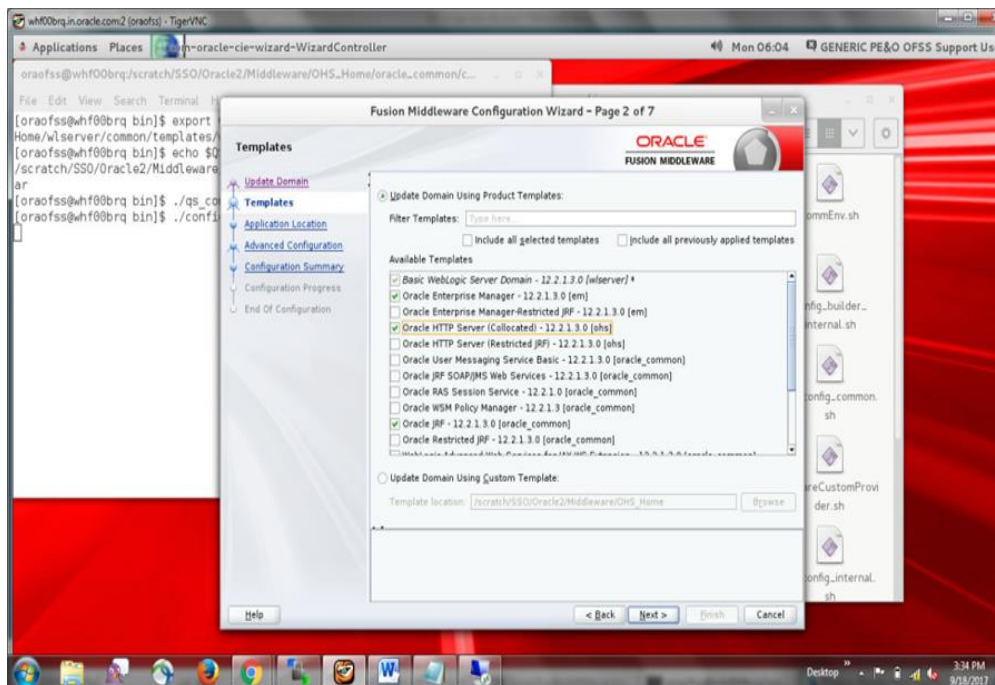


4. Open cmd (Command Prompt) as Administrator in **...lohs\_home\oracle\_common\common\bin** folder and run **config.cmd**.



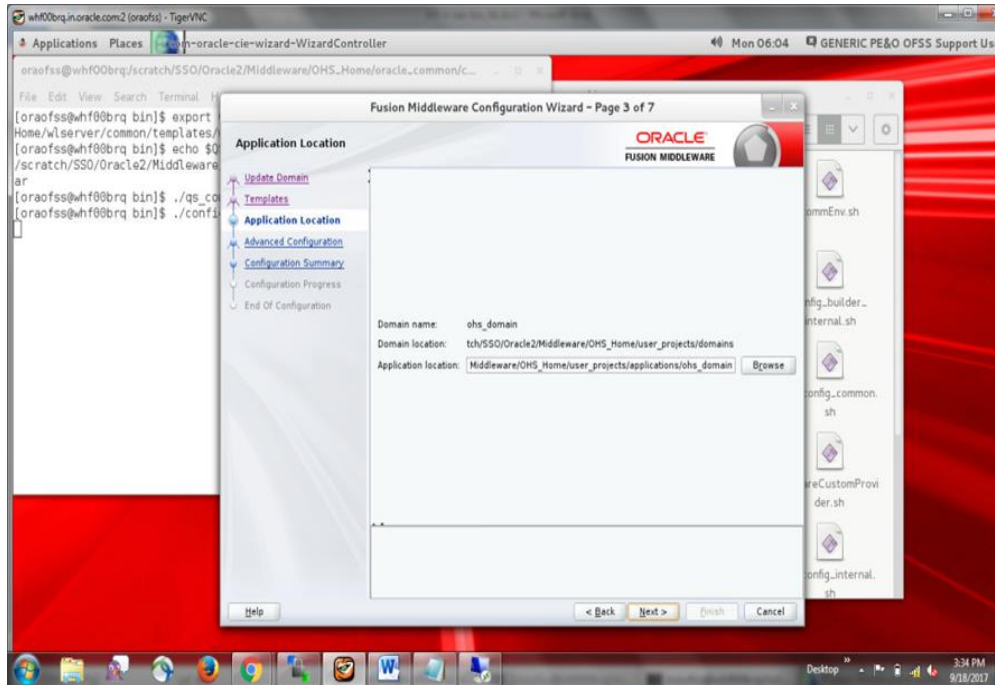


5. Select **Update an existing domain**, enter **Domain Location** of ohs\_domain and click **Next**.

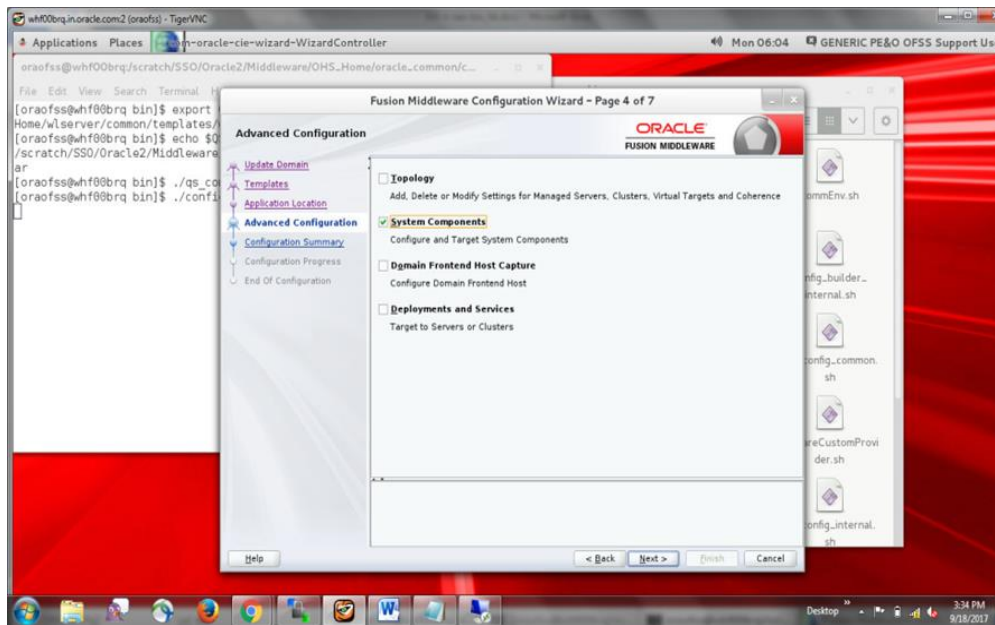


6. Select the following templates and click **Next**.

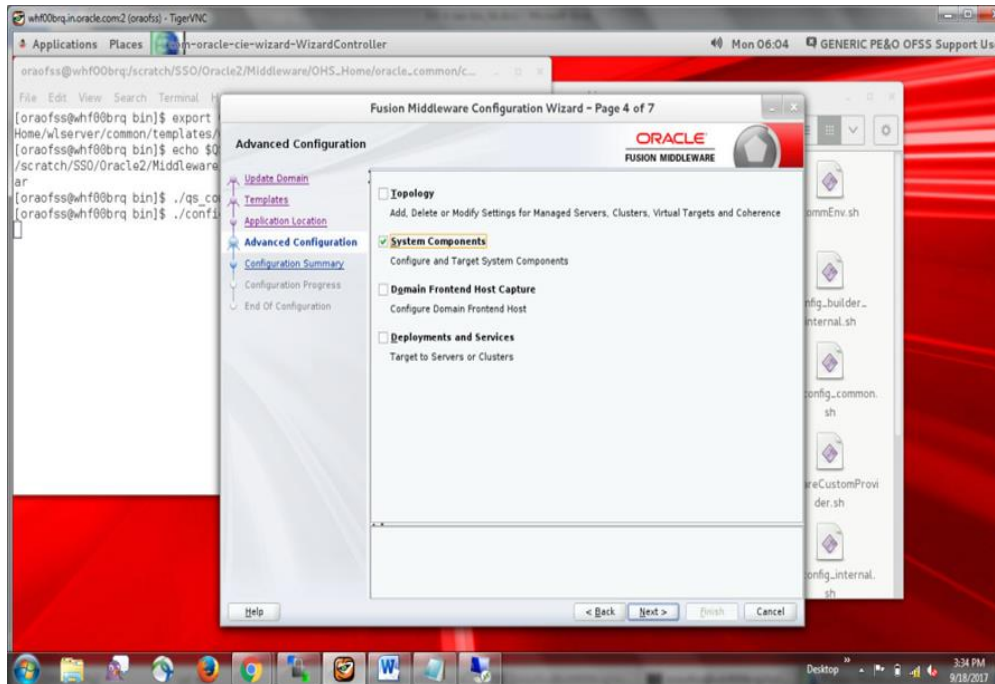
- Oracle enterprise manager
- Basic Weblogic Server Domain - 12.2.1.3.0 [wlserver]
- Oracle HTTP Server (Collocated) – 12.2.1.3.0 [ohs]
- Oracle JRF - 12.2.1.3.0 [oracle\_common]
- Oracle Coherence Cluster Extension - 12.2.1.3.0 [wlserver]



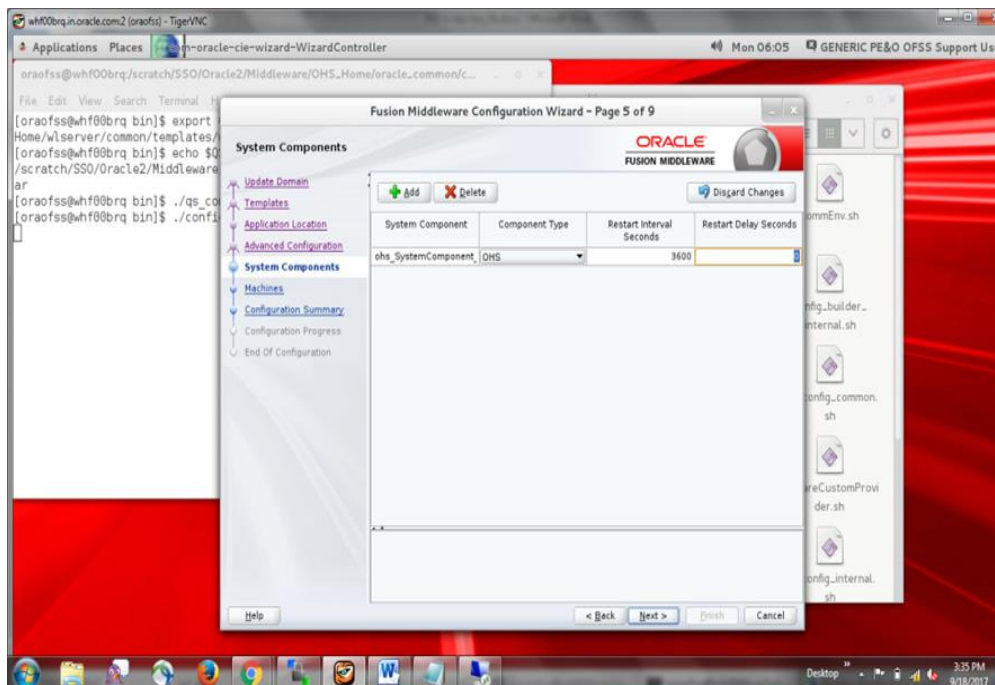
7. Click **Next**.



8. Select **System Components** and click **Next**.



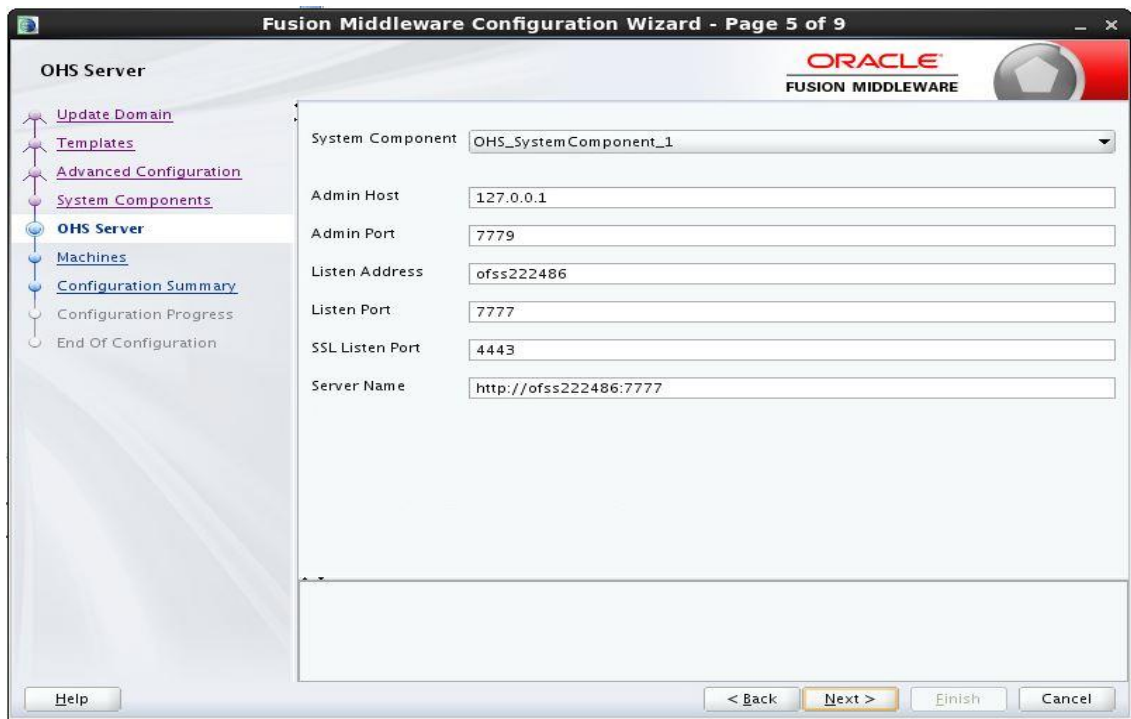
9. Add system component and click **Next**.



10. Enter the details as given below and click **Next**:

- *System Components:* ohs\_SystemComponent\_1
- *Admin Host:* keep default
- *Admin Port:* 7779
- *Listen Address:* Host Name of the system( Ex ofss222486)
- *Listen Port:* 7777
- *SSL Listen Port:* 4443
- *Server Name:* <http://<listen Address>:7777>

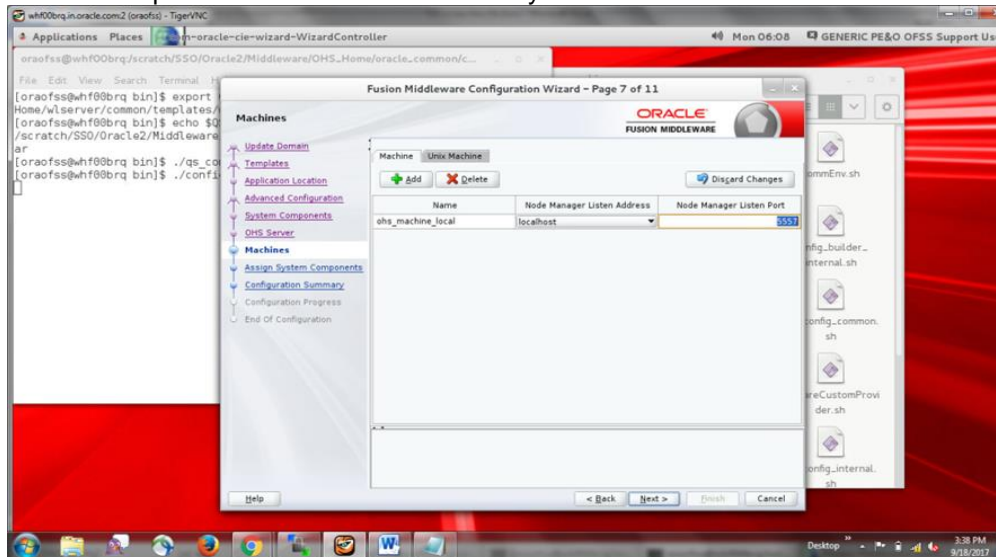
**NOTE:** Use these port numbers if they are currently not in use.



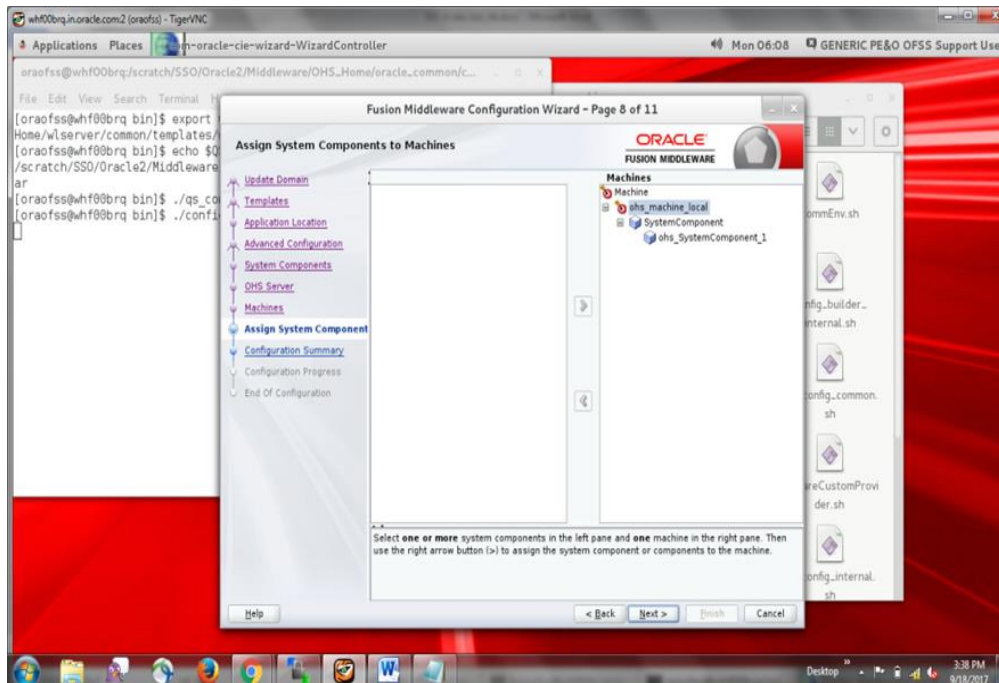
11. Click **Add** button and enter the following details:  
If UNIX machine click on unix machine and click add

- *Name*: ohs\_machine\_local
- *Node Manager Listen Address*: localhost
- *Node Manager Listen Port*: 5557

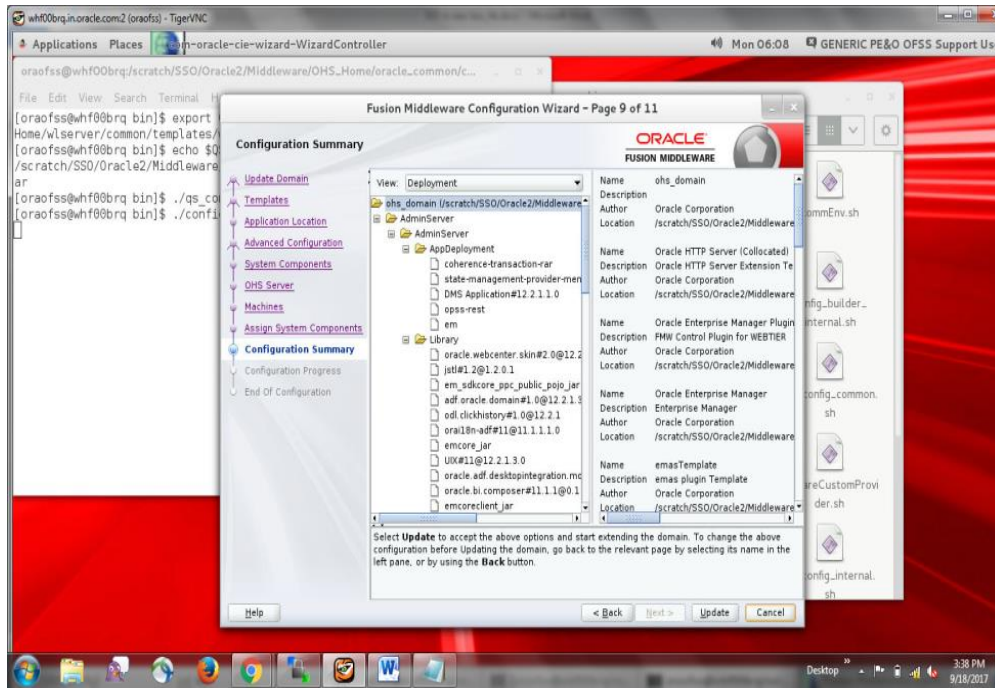
**NOTE:** Use port numbers which are currently not in use.



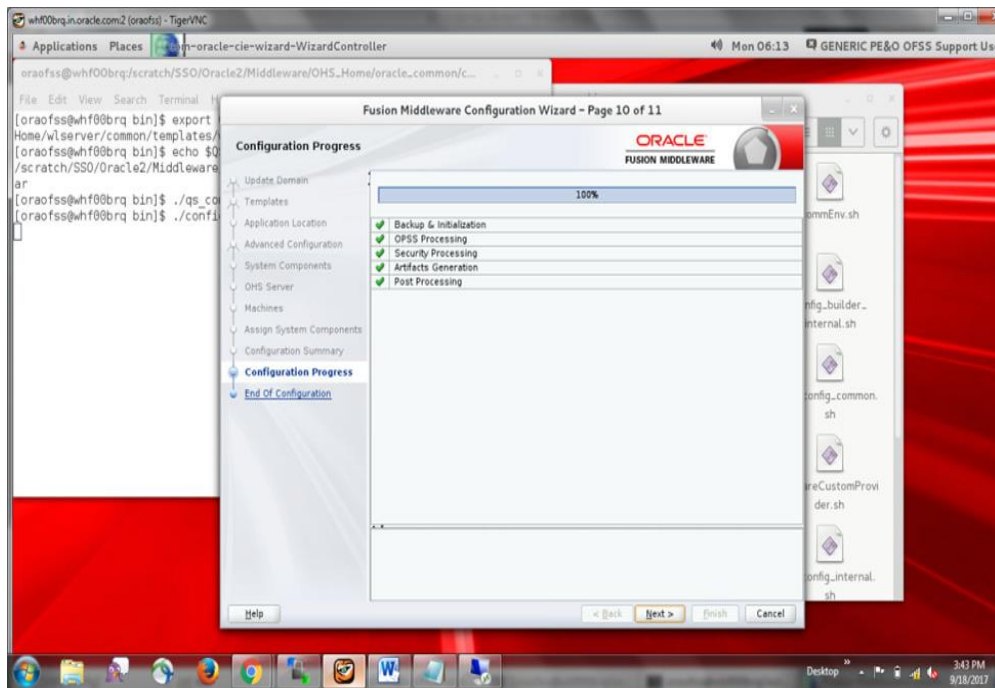
12. Assign system component to ohs\_machine\_local and click **Next**.



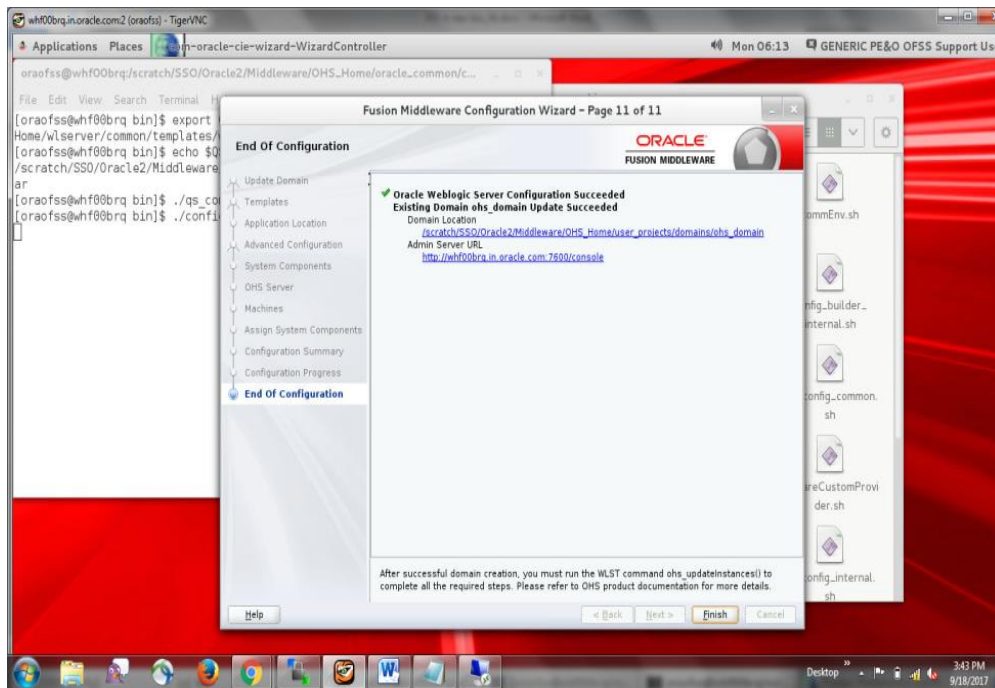
13. Click **Update**.



14. Click **Next** after the configuration completes successfully.



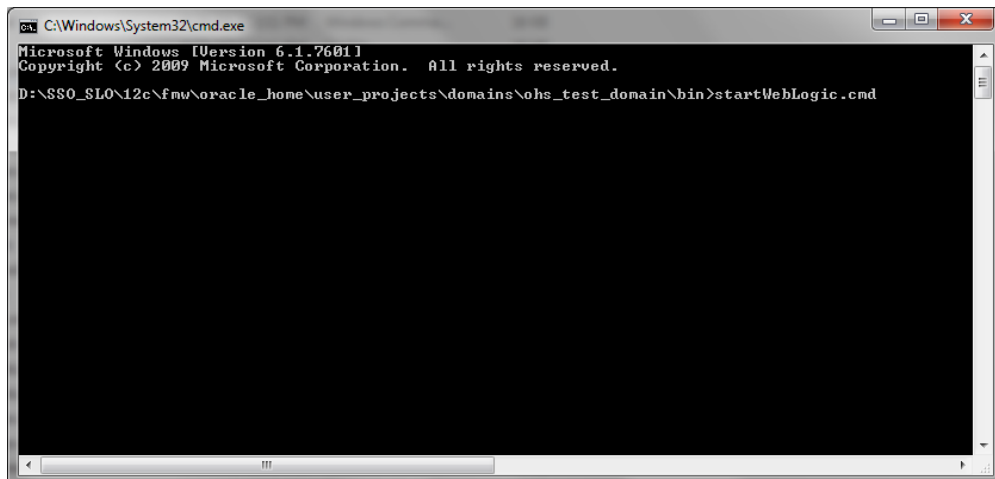
15. Review the domain details and click **Next**.



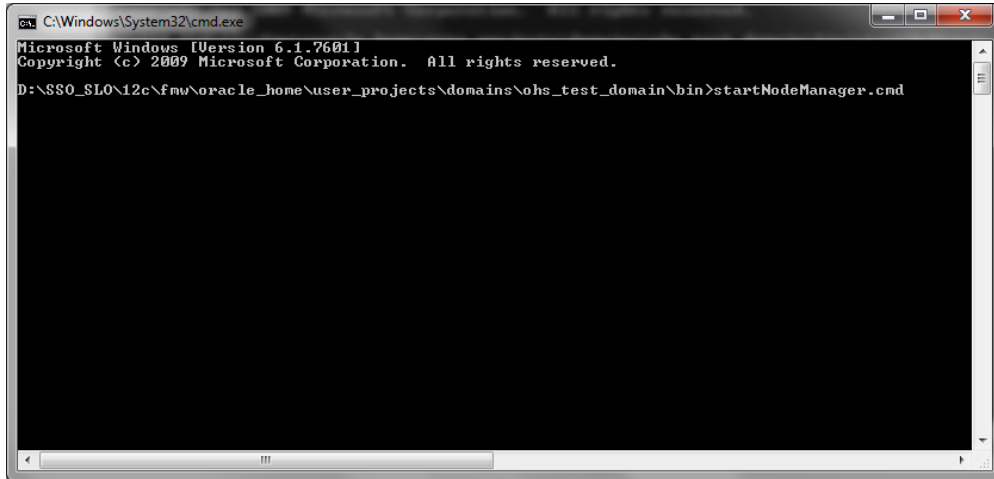
16. Click **Finish**.

## 4.4 OHS Configuration Steps

1. Open cmd (Command Prompt) as Administrator in OHS domain bin path (For ex. ...\\ohs\_home\\user\_projects\\domains\\ohs\_domain\\bin) and run **startWebLogic.cmd**.



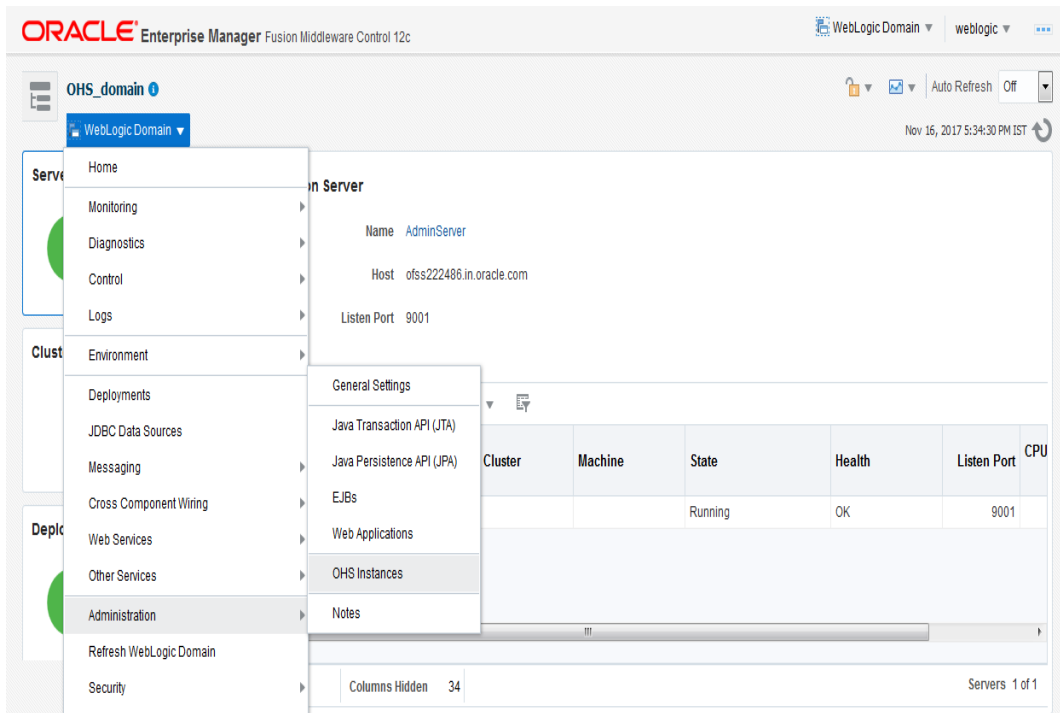
2. After the server moves into Running Mode, open another command prompt at the same location and run **startNodeManager.cmd** file.



3. Open the following link in any web browser and login.

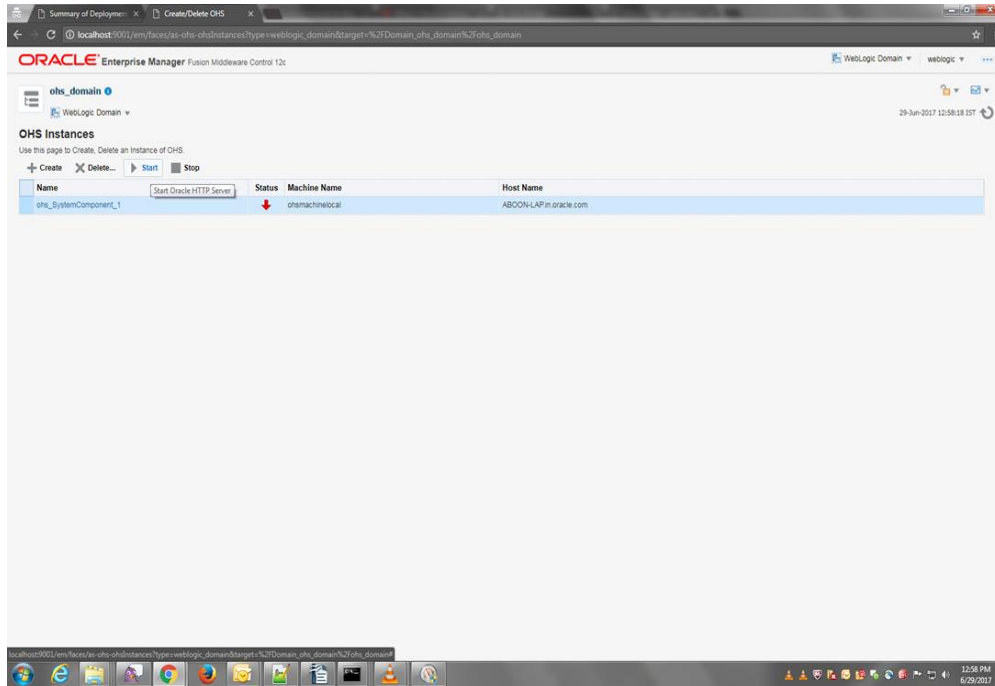
[http://<ip\\_address>:<ohs\\_port>/em/faces](http://<ip_address>:<ohs_port>/em/faces)

4. Click on **Weblogic -> Administration -> ohs instances**.

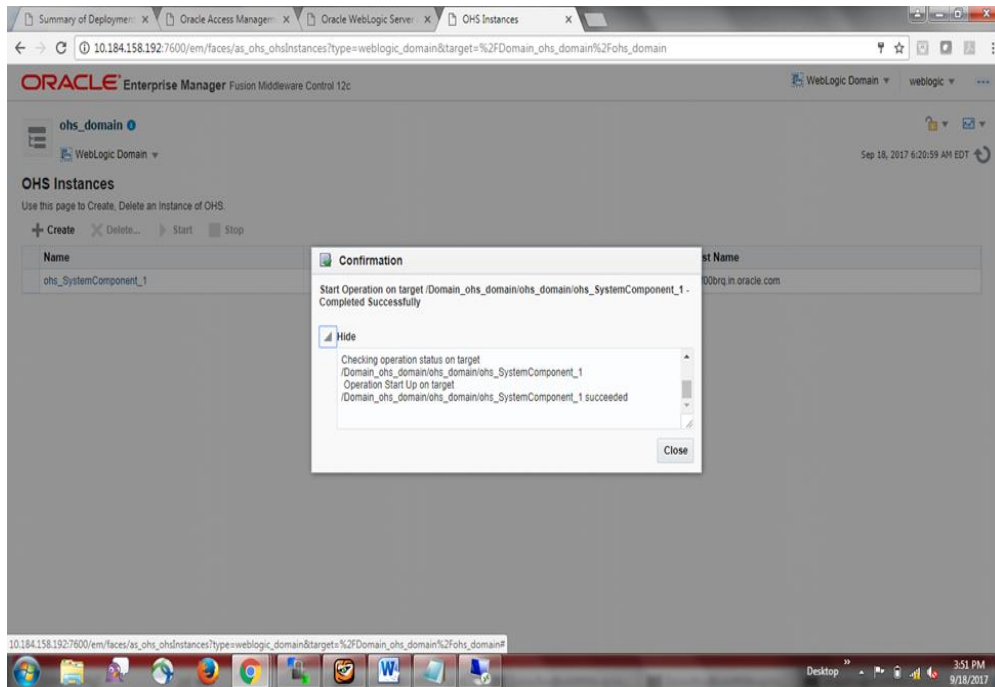




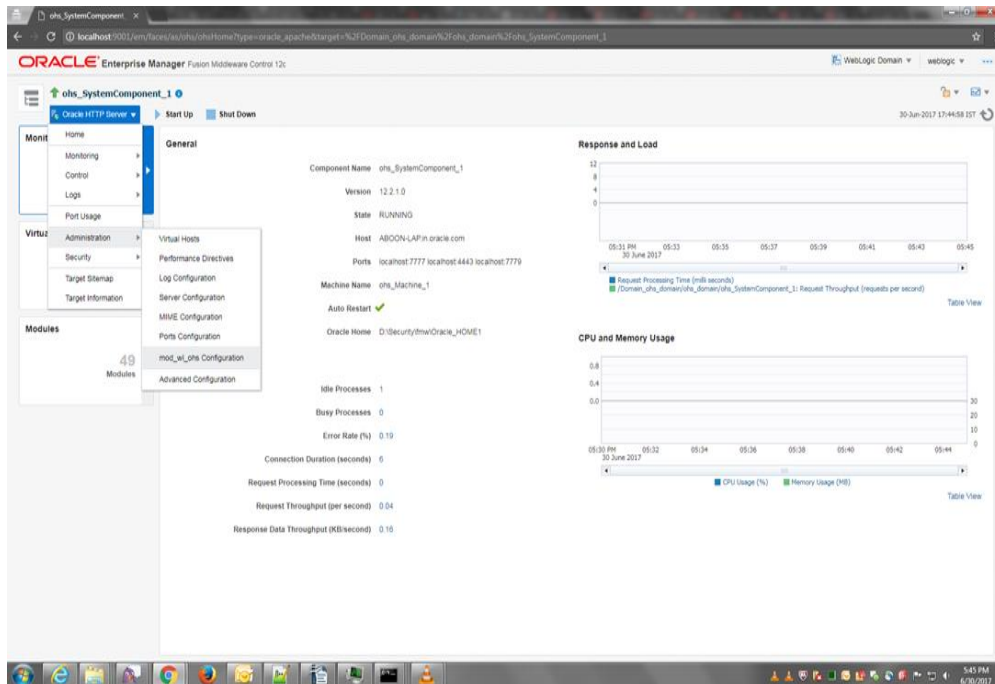
5. Click on **OHS\_SystemComponent** and click **start**



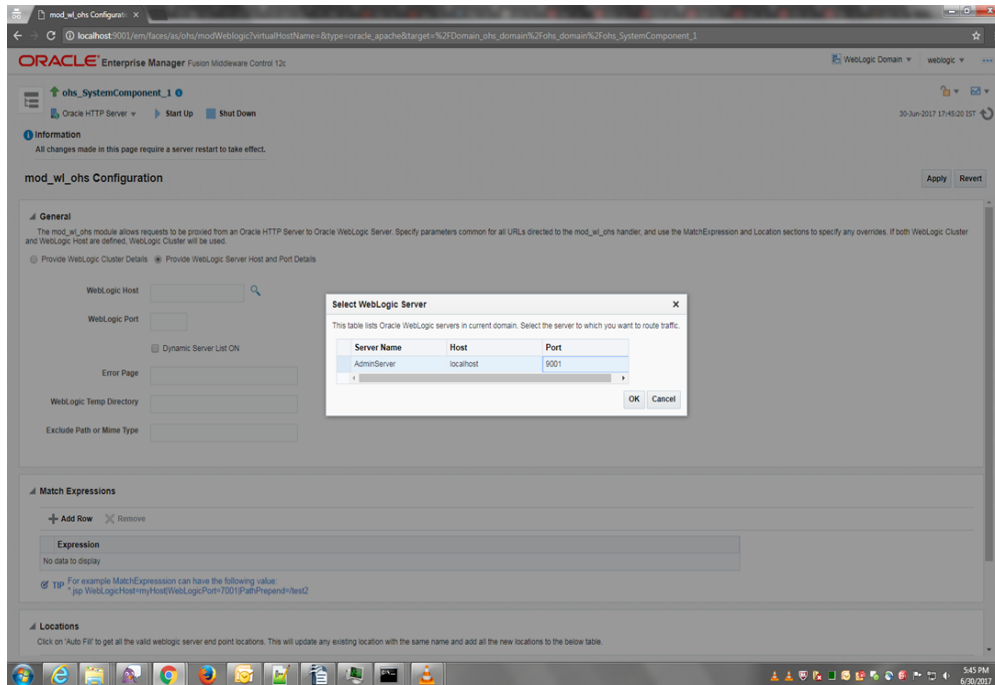
6. Close the Confirmation Message box.



7. Click on **ohs\_SystemComponent\_1**. Click on **Oracle HTTP Server -> Administration -> mod\_wl\_ohs Configuration** in the new page.



8. Select radio button Provide weblogic server host and port details and Click on the Search button of **Weblogic Host**, select **AdminServer** and click **OK**.



9. In the **Match Expression** section enter the following:

- \*.jsf
- \*.jspx
- \*.html
- \*.\*
- \*
- \*\*

In the **Locations** section enter the following:

- GLM

Click **Apply**.

### mod\_wl\_ohs Configuration

**Match Expressions**

+ Add Row   X Remove

Expression
*.jsf
*.jspx
*.html
*.*
*.*
*.*

**TIP** For example MatchExpression can have the following value:  
 \*.jsp WebLogicHost=myHost|WebLogicPort=7001|PathPrepend=/test2

---

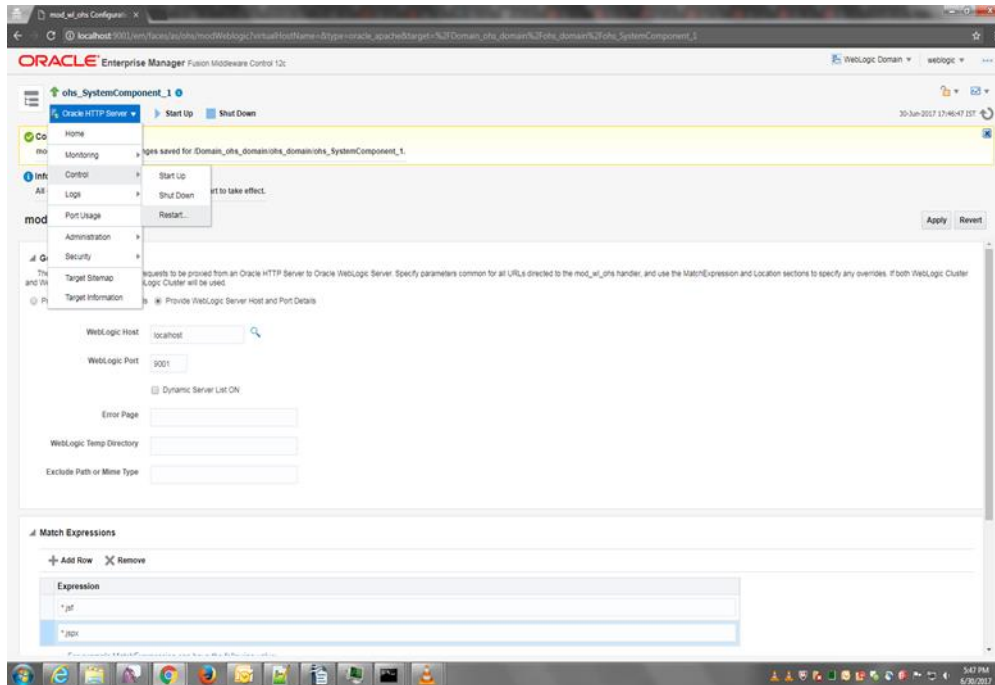
**Locations**

Click on 'Auto Fill' to get all the valid WebLogic server end point locations. This will update any existing location with the same name and add all the new locations to the below table.

+ Add Row   X Remove   + Auto Fill

Location	WebLogic Cluster	WebLogic Host	WebLogic Port	Path Trim	Path Prefix
SampleApp					
GLM					

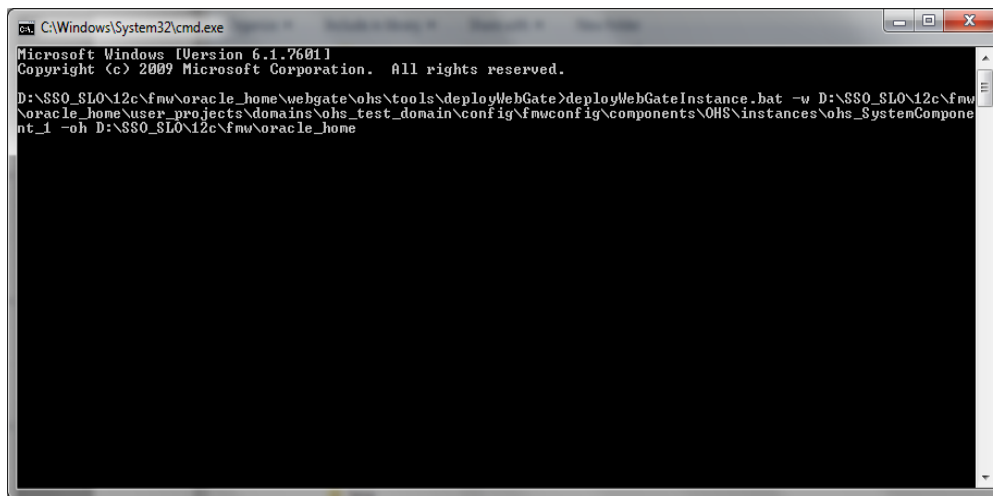
10. Restart OHS component by clicking on **Oracle HTTP Server ->control -> Restart...**



11. Open cmd (Command Prompt) as Administrator and navigate to the path `...lohs_home\webgate\lohs\tools\deployWebGate` and execute the following command.

```
>deployWebGateInstance.bat -w <path_to_ohs_SystemComponent_1> -oh  
<path_to_ohs_home>
```

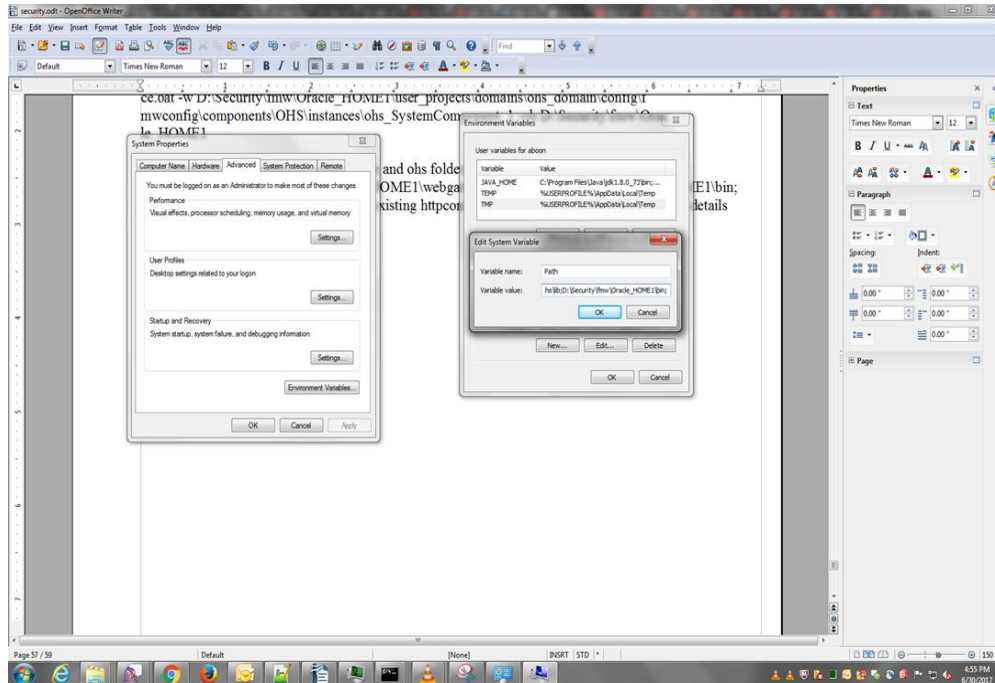
(For ex. >deployWebGateInstance.bat -w  
D:\SSO\fmw\ohs\_home\user\_projects\domains\lohs\_domain\config\fmwconfig\components\O  
HS\instances\ohs\_SystemComponent\_1 -oh D:\SSO\fmw\ohs\_home)



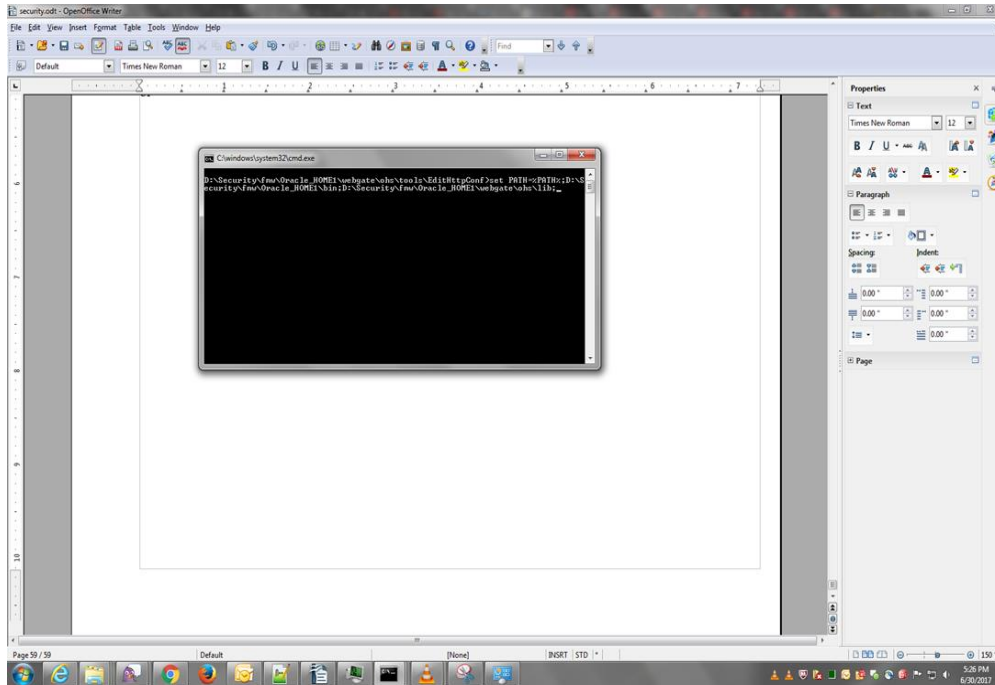
**NOTE:** Linux users refer the following screenshot.



12. Edit path variable of system environment variables to add oracle home path.  
( This step for windows machine only)



13. For Windows machine only  
 Open cmd (Command Prompt) as Administrator and navigate to the path  
 ...**ohs\_home\webgate\ohs\tools\EditHttpConf** and execute the following command.  
  
`>set PATH=%PATH%;<path_to_ohs_home/bin>;<path_to_ohs_lib>;`  
  
**(For ex. >set**  
**PATH=%PATH%;D:\SSO\fmw\ohs\_home\bin;D:\SSO\fmw\ohs\_home\webgate\ohs\lib)**

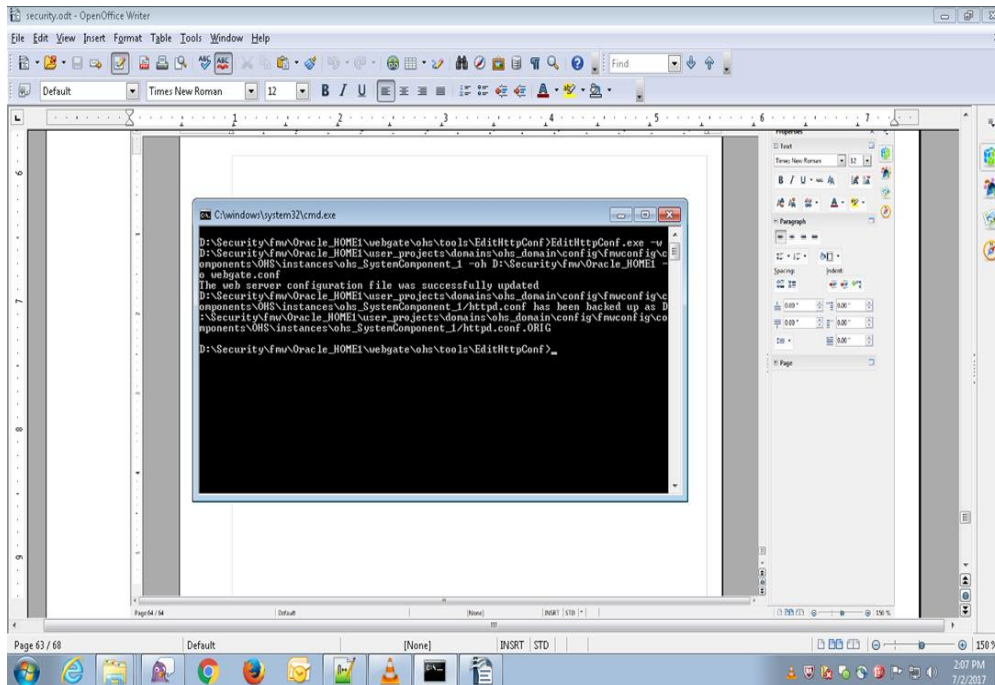


14. For Windows machine only

Execute the following command in the same cmd window.

```
>EditHttpConf.exe -w <path_to_ohs_SystemComponent_1> -oh <path_to_ohs_home> -o webgate.conf >
```

```
(>EditHttpConf.exe -w <path to  
ohs_oracle_home>/user_projects/domains/OHS_domain/config/fmwconfig/co  
mponents/OHS/instances/OHS_SystemComponent_1 -oh <path_to_  
ohs_oracle_home> -o webgate.conf >  
)
```



- For linux machine only  
Open terminal navigate to path **ohs\_home\webgate\ohs\tools\setup\installtools**  
and

set **LD\_LIBRARY\_PATH** <path to ohs\_oracle\_home>/bin: <path to  
ohs\_oracle\_home>/webgate/ohs/lib: <path to ohs\_oracle\_home>/lib:

and then execute command

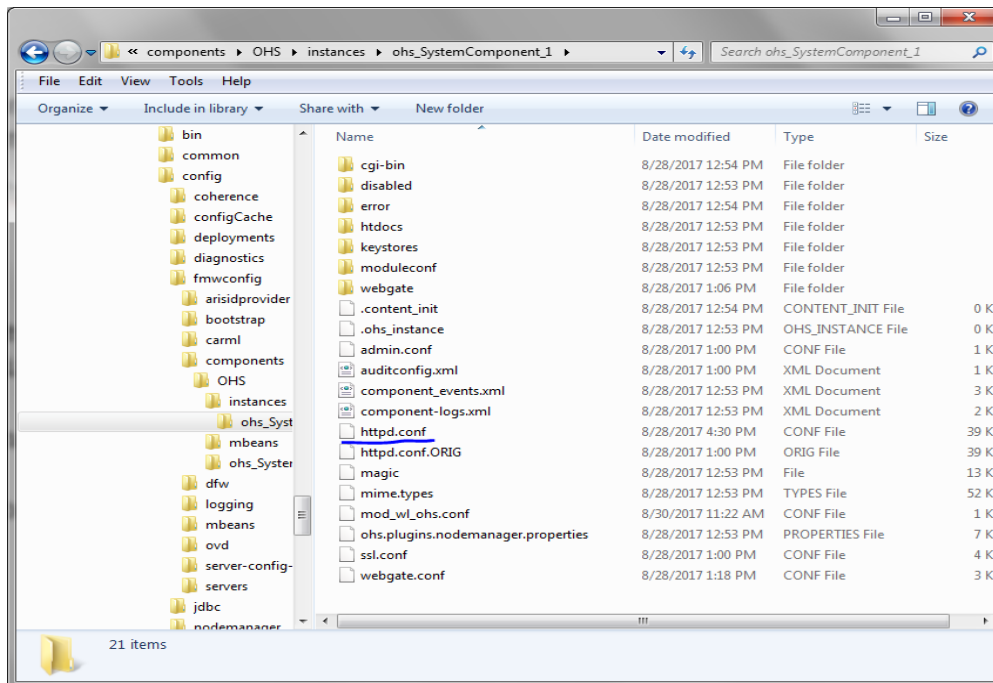
>**EditHttpConf.exe -w** <path to  
**ohs\_oracle\_home**>/user\_projects/domains/OHS\_domain/config/fmwconfig/co  
mponents/OHS/instances/OHS\_SystemComponent\_1 -oh <path\_to\_  
**ohs\_oracle\_home**> -o webgate.conf >

As below



```
[bij@ofss220180 InstallTools]$ setenv LD_LIBRARY_PATH /scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/bin:/scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/webgate/ohs/lib:/scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/lib
[bij@ofss220180 InstallTools]$ echo $LD_LIBRARY_PATH
/scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/bin:/scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/webgate/ohs/lib:/scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/lib
[bij@ofss220180 InstallTools]$ ./EditHttpConf -w /scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/user_projects/domains/OHS_domain/config/fmwconfig/components/OHS_instances/ohs_SystemComponent_1 -oh /scratch/Softwares/INSTALL/OHS_WEBLOGIC_12 -o webgate.conf
The web server configuration file was successfully updated
/scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/user_projects/domains/OHS_domain/config/fmwconfig/components/OHS_instances/ohs_SystemComponent_1/httpd.conf has been backed up as /scratch/Softwares/INSTALL/OHS_WEBLOGIC_12/user_projects/domains/OHS_domain/config/fmwconfig/components/OHS_instances/ohs_SystemComponent_1/httpd.conf.ORIG
```

- Go to path `...lohs_home\user_projects\domains\ohs_domain\config\fmwconfig\components\OHS\instances\ohs_SystemComponent_1` and edit `httpd.conf` file using Notepad.



```
# Include the admin virtual host (Proxy Virtual Host) related configuration
include "admin.conf"

IncludeOptional "moduleconf/*.conf"

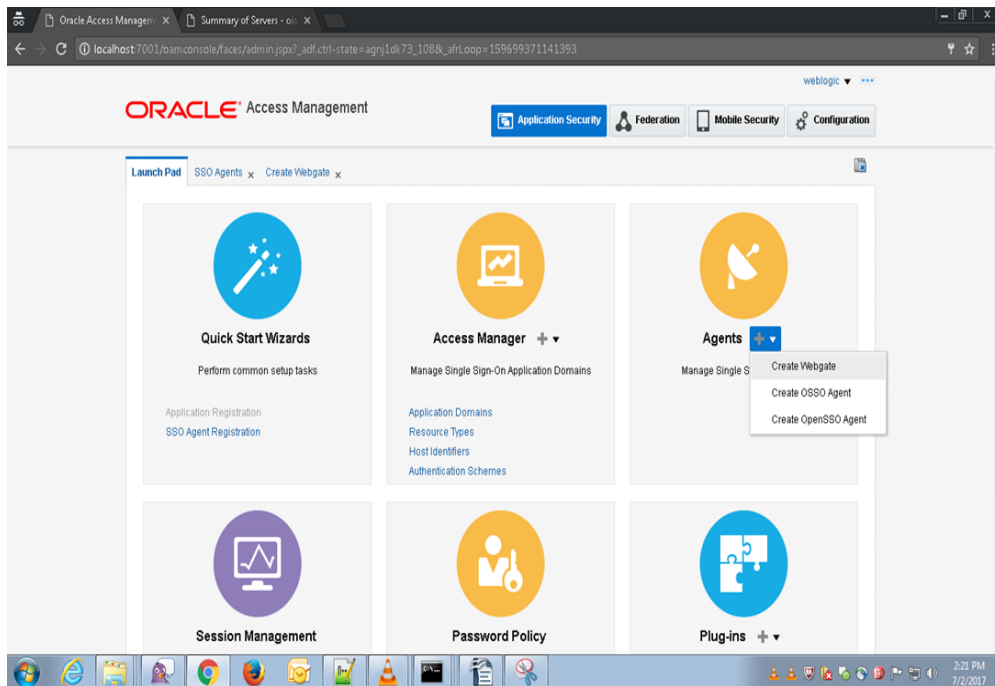
include "webgate.conf"
```

- Add the **last line of the above screenshot** (include "webgate.conf") at the **bottom of the httpd.conf** file.

18. Also add the line (include "webgate.conf" ) to httpd file present in **ohs\_home\user\_projects\domains\ohs\_domain\config\fmwconfig\components\OHS\ohs\_SystemComponent\_1**

## 4.5 Steps to Register Webgate

1. Open the following link in any web browser and login to OAM console.  
[http://<ip\\_address>:<oim\\_port>/oamconsole](http://<ip_address>:<oim_port>/oamconsole)



2. Go to **Agents** and click on **Create Webgate**.  
Name: Give name as host name (Ex ofss222486)  
Base URL : should be same server name in step 4.3.10  
Click apply

**ORACLE** Access Management

Application Security | Federation | Configuration

Launch Pad | Create Webgate x

Access Manager >

### Create Webgate

Use the following screen to register an OAM Agent. Before you register, ensure that at least one OAM Server is running in the same mode as the Agent to be registered.

**Name:** ofss222486

**Description:** [Empty]

**Base URL:** http://ofss222486:7777

**Access Client Password:** [Empty]

**Host Identifier:** ofss222486

**User Defined Parameters:** [Empty]

**Security:**  Open,  Simple,  Cert

**Virtual host:**

**Auto Create Policies:**

**IP Validation:**

**Resource Lists**

**Protected Resource List** [Add] [Delete]

Relative URI: [Empty]

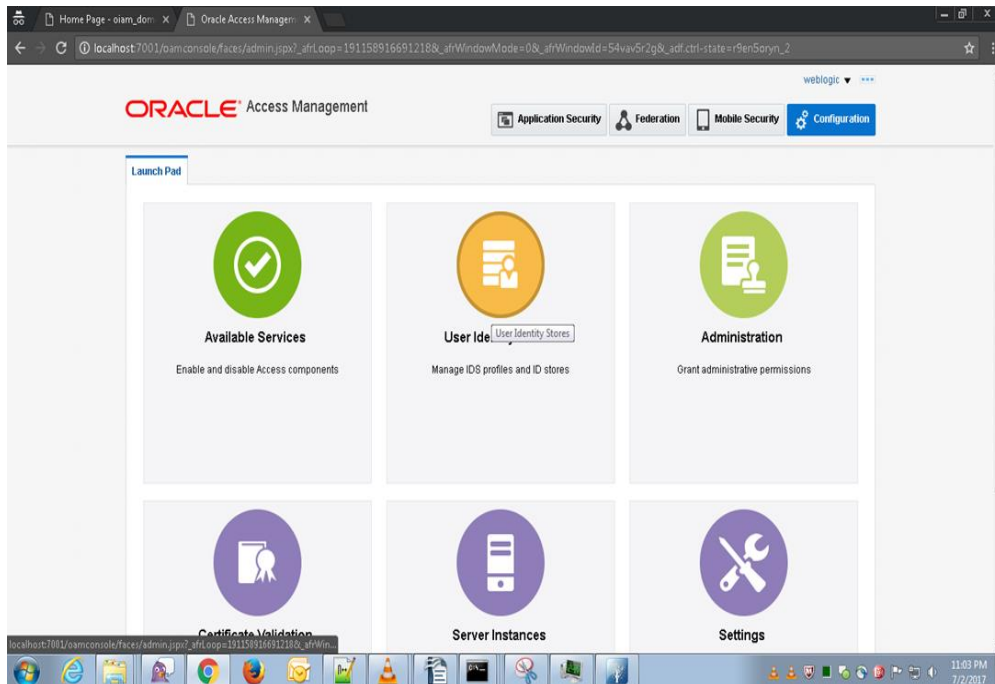
**Public Resource List** [Add] [Delete]

Relative URI: No data to display

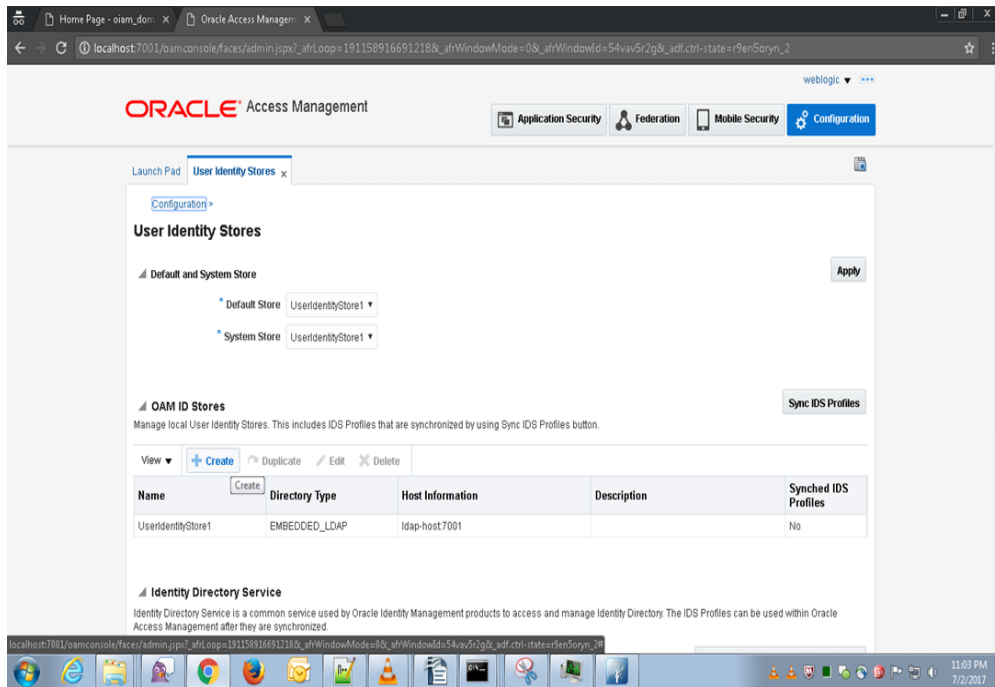
3. Copy and paste **wallet, cwallet.sso and ObAccessClient.xml** from “...\oracle\_home\user\_projects\domains\oim\_domain\output\localhost” to “...\ohs\_home\user\_projects\domains\ohs\_domain\config\fmwconfig\components\OHS\instances\ohs\_SystemComponent\_1\webgate\config” folder.
4. Restart **ohs\_system\_component** from OHS console ([http://<ip\\_address>:<ohs\\_port>/em/faces](http://<ip_address>:<ohs_port>/em/faces))

## 4.6 Steps to External LDAP in OAM

1. Login into OAM console., go to configuration



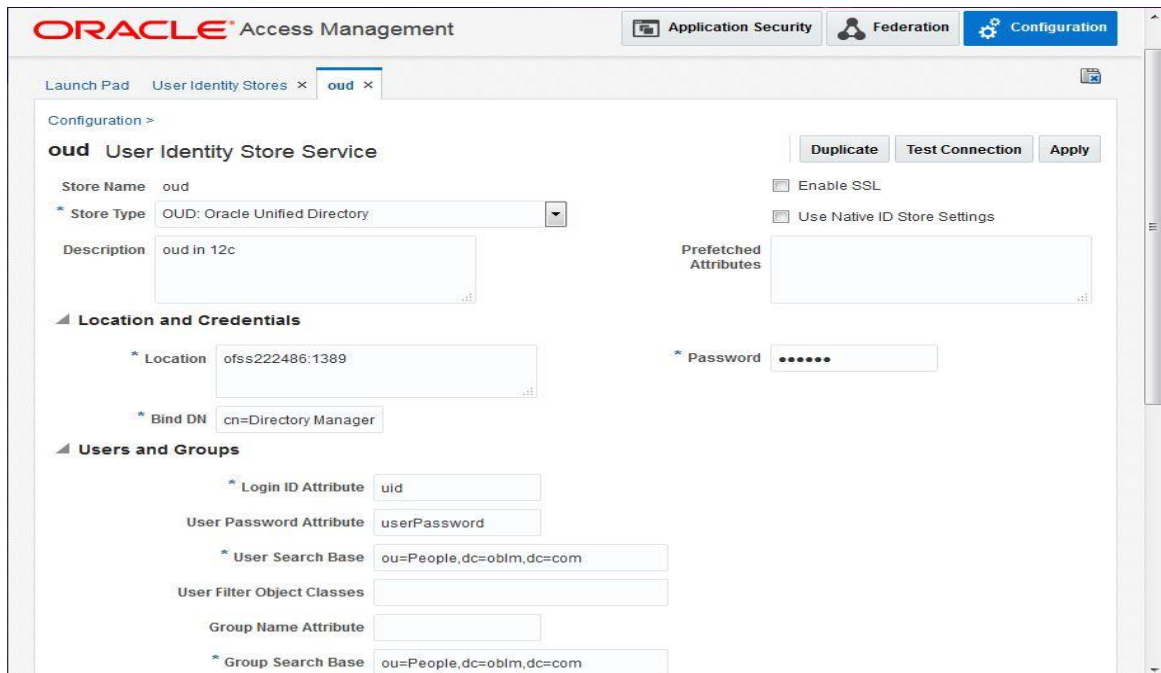
2. Click on **User Identity Stores** launch icon.



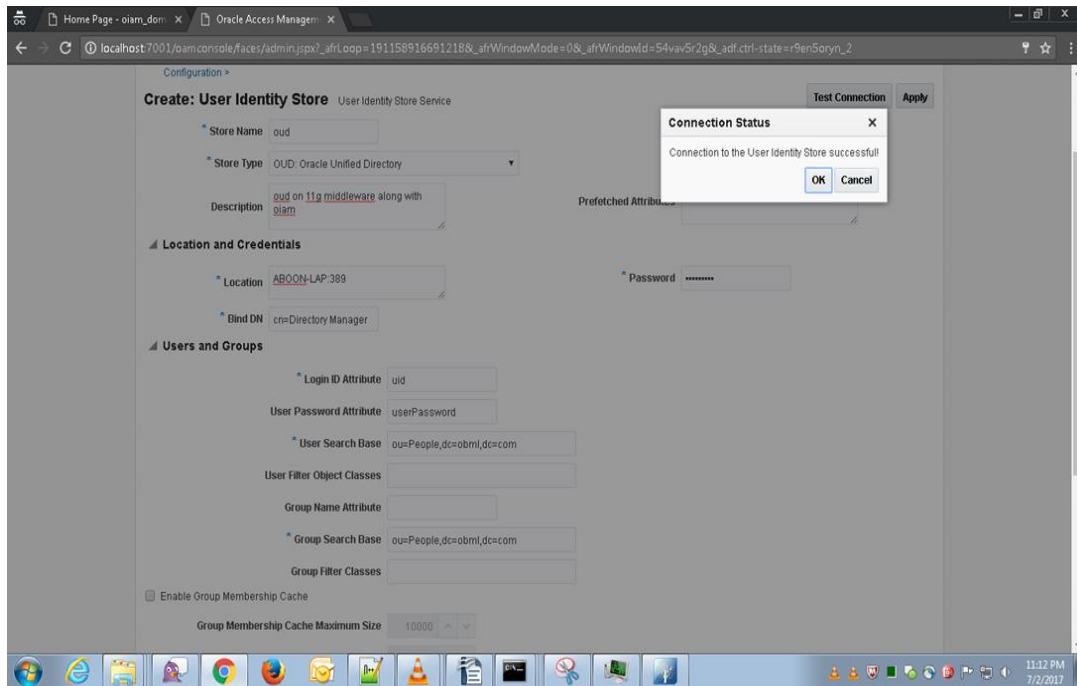
3. Click on **Create** button of **OAM ID Stores** section.

4. Here OAM will be connected with OUD

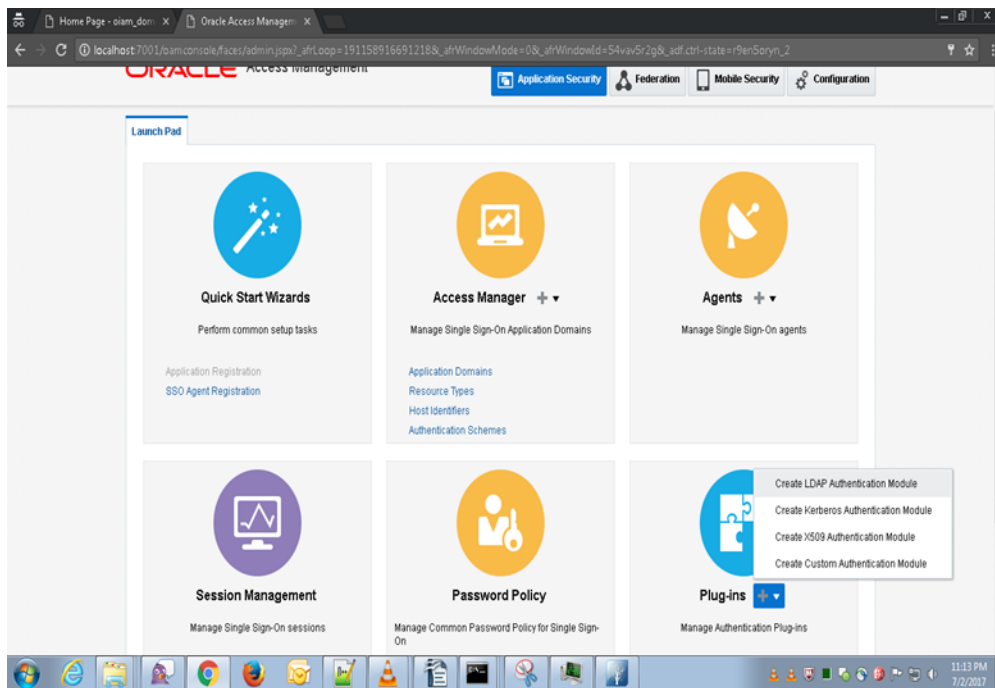
Location should be Host name:port where port is the ldap port number given during 3.3 oud setup steps step no 4, BIND DN( cn=Directory Manager), and user search base and group search base as (ou=People,dc=oblm,dc=com)



Click on test connection. Connection status should be successful

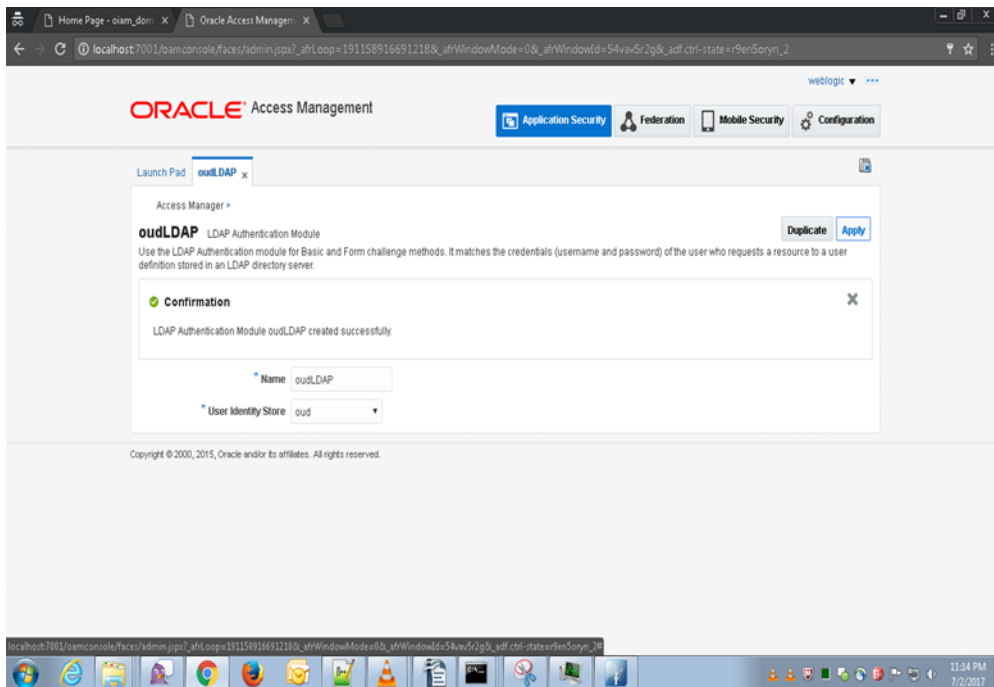
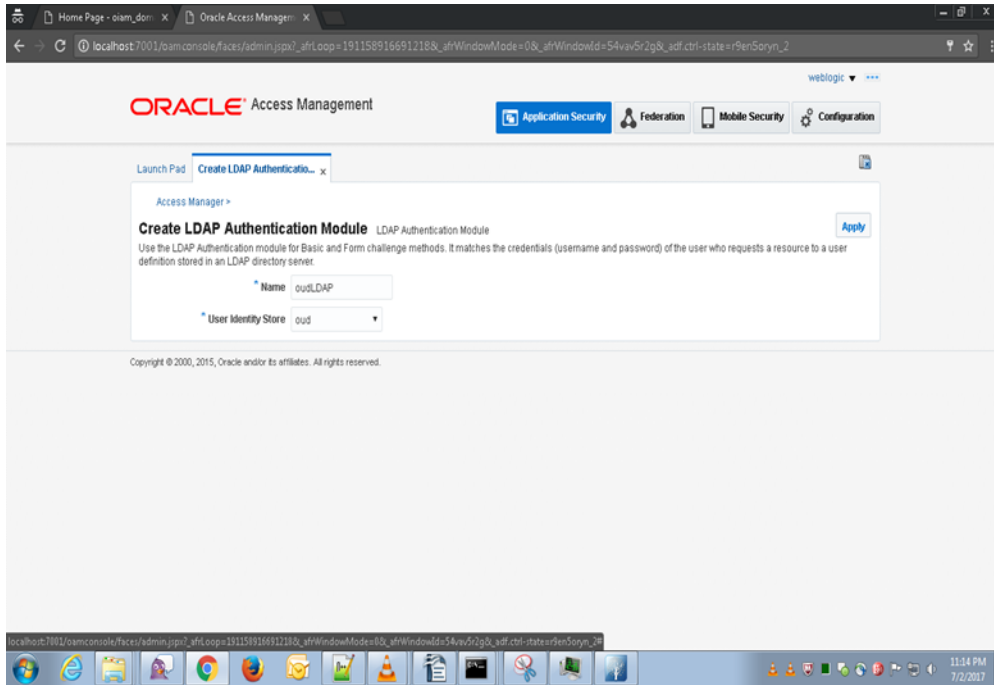


5. Click on Application security, go to plugins and click on create LDAP authentication module.

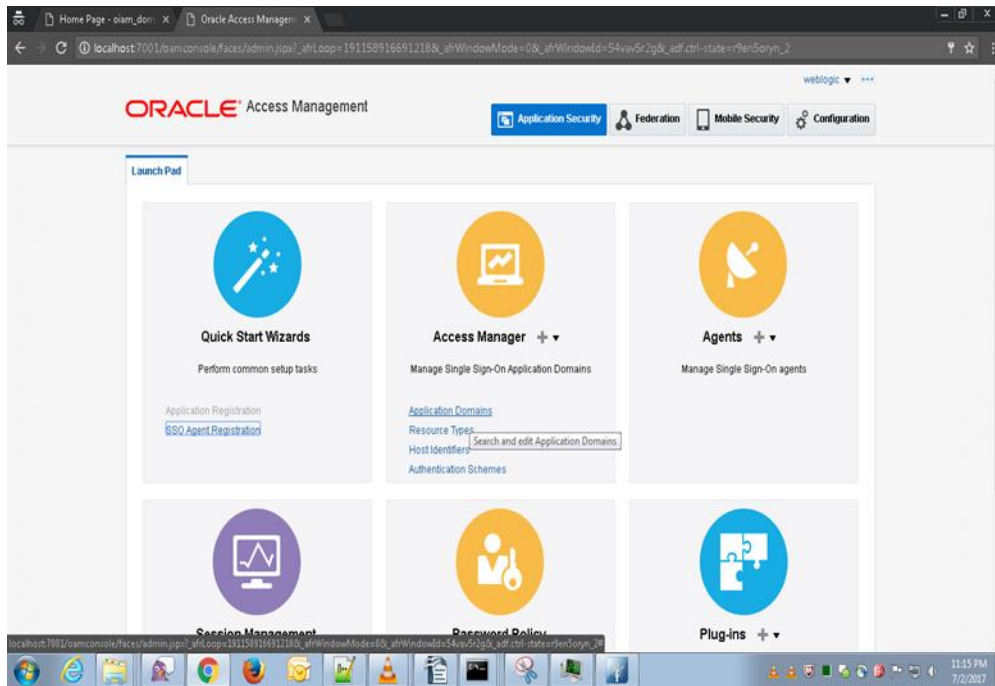


Give name as oudLDAP

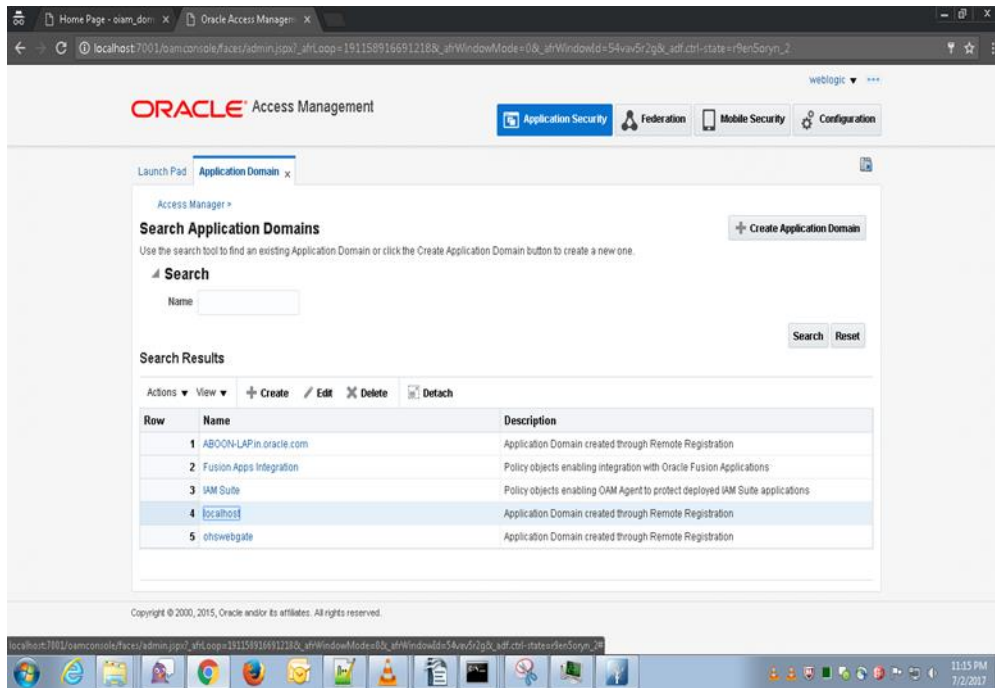
User identity store as oud and click apply



6. Go to application domain and click search

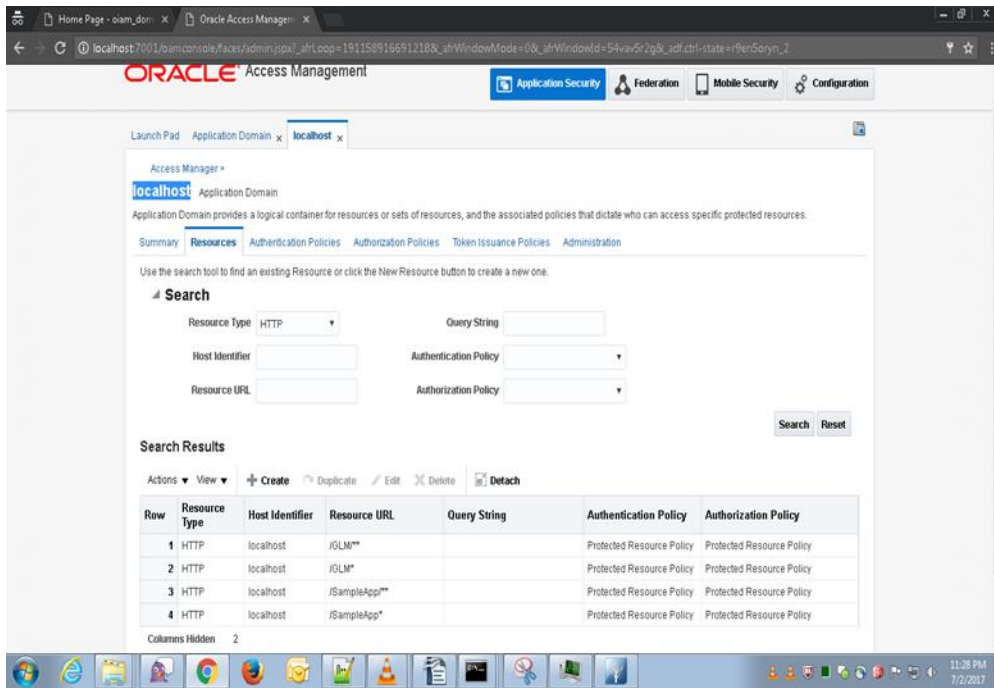


Click on the webgate name u have given during 4.5.2 (Ex: ofss222486)

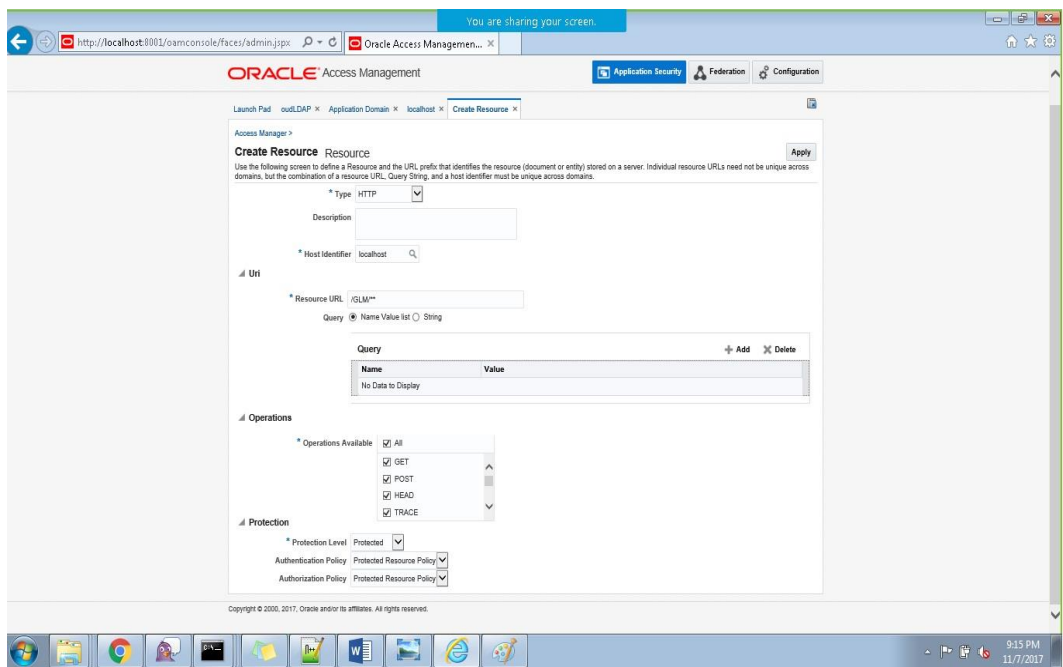




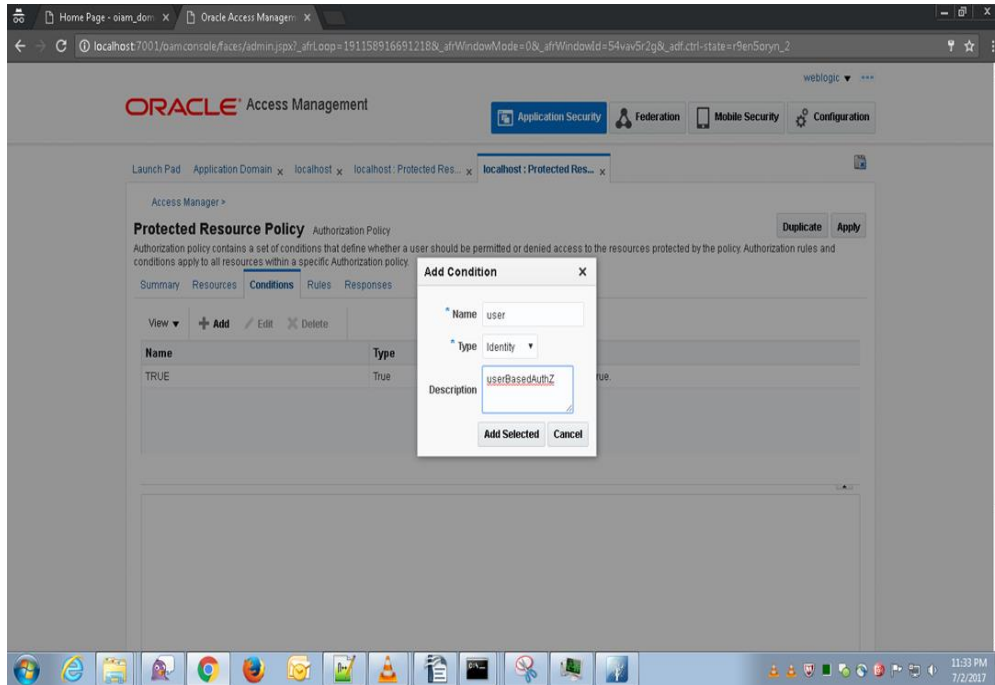
Click on resources tab and click on search



7. Create resources with resource url /GLM/\*\* , /GLM/\*. \* , /GLM\* , /GLMServcies/\*\* , /GLMServcies/\*. \* .

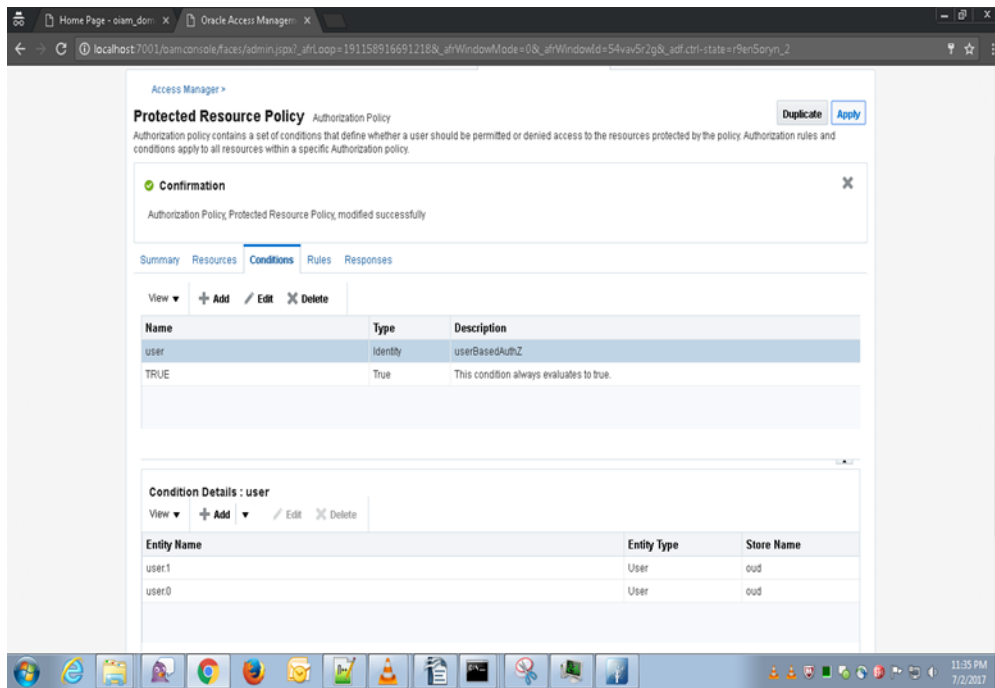
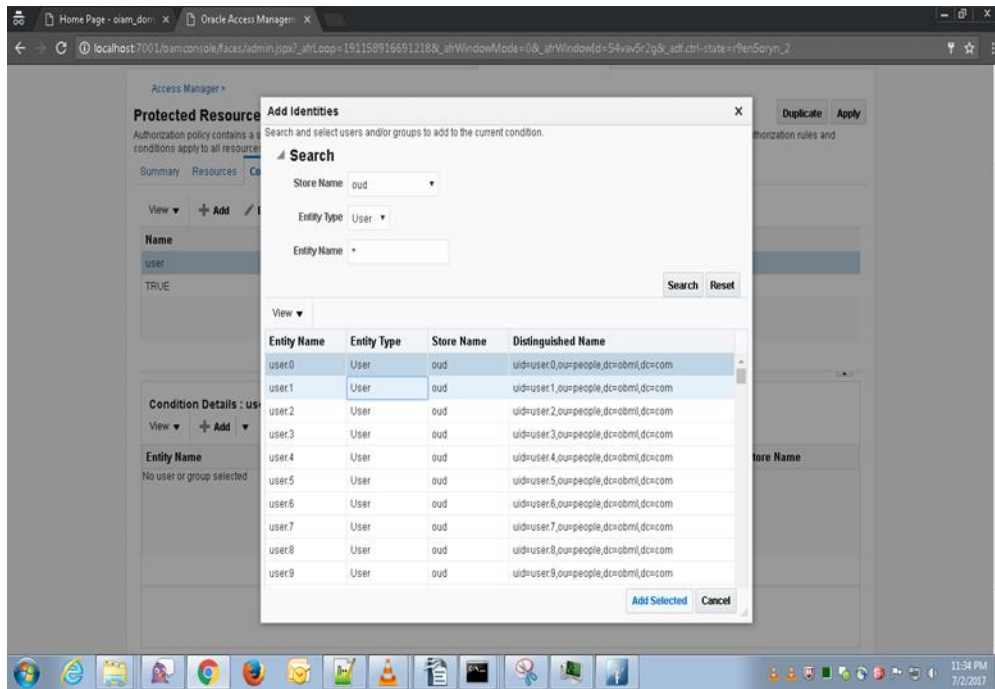


8. Click on application domain select the domain and click authorization policy  
Click on protected resource policy and click on  
Click on conditions and add condition as below

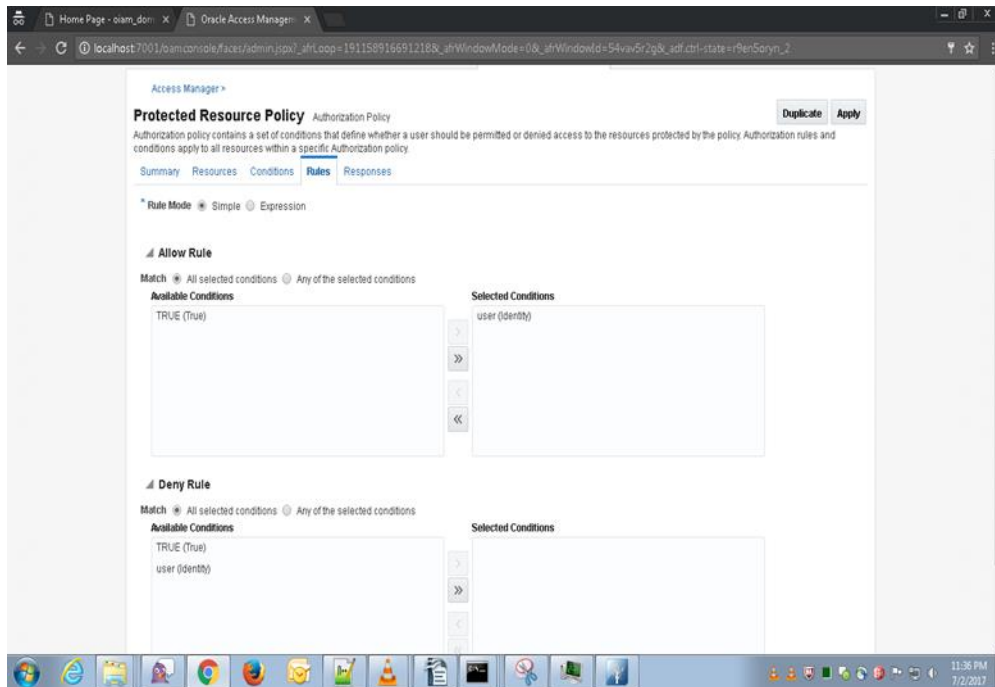


Under condition details click add and select users and groups

Search users and add users as below ( these are the sso users maintained in [http://<IP\\_Address>:<OUD\\_Port\\_No>/oudsm/faces/odsm.jspx](http://<IP_Address>:<OUD_Port_No>/oudsm/faces/odsm.jspx) )

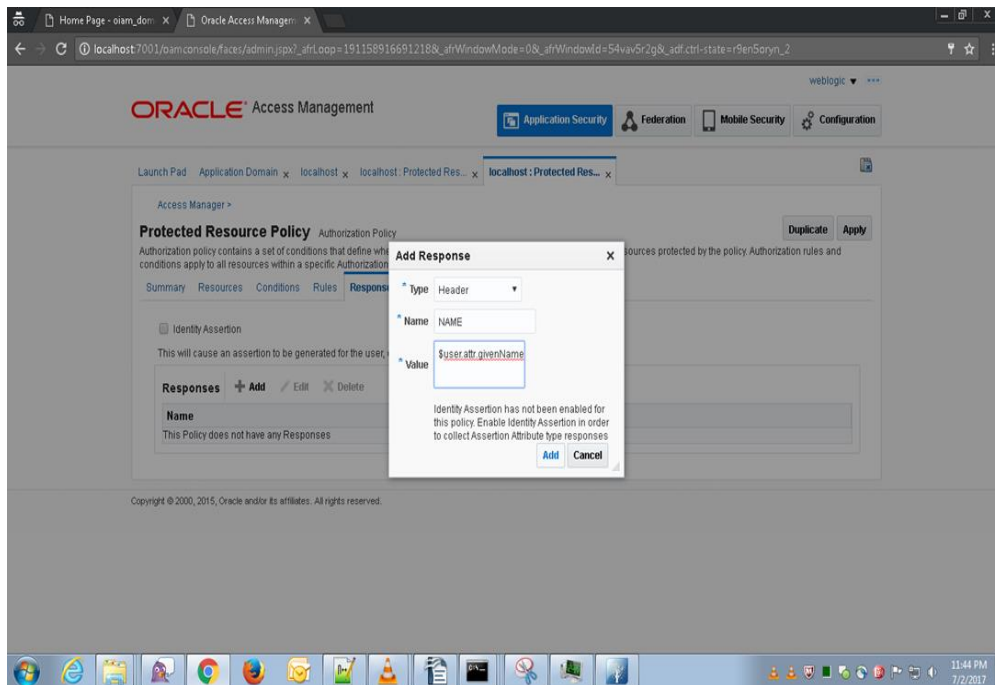


Go to the Rules tab and change as below

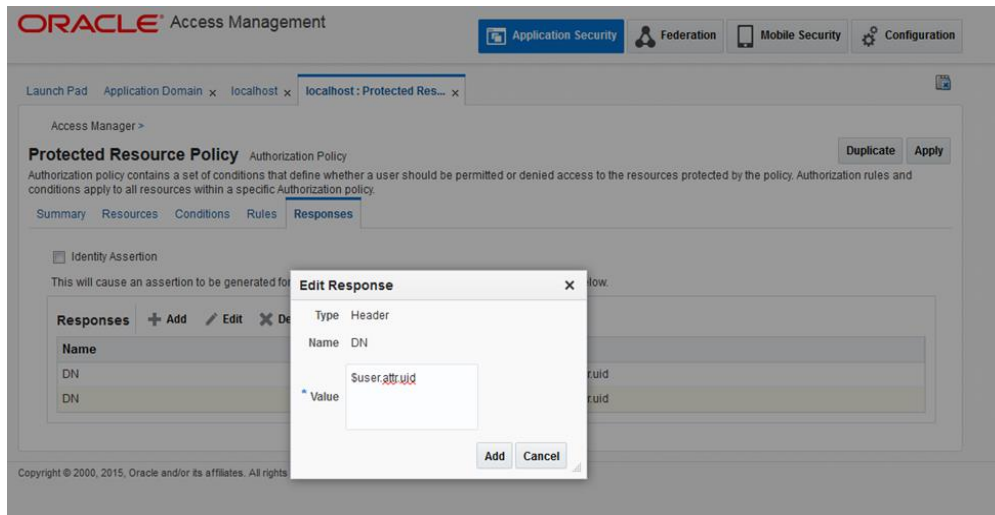


Click apply and goto responses

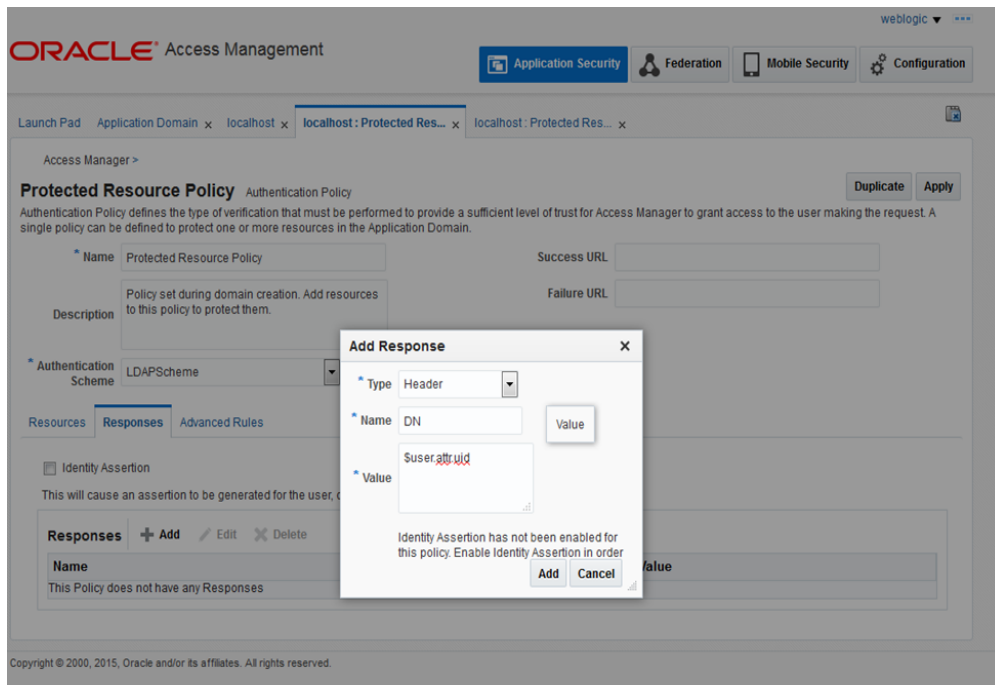
Add response as below



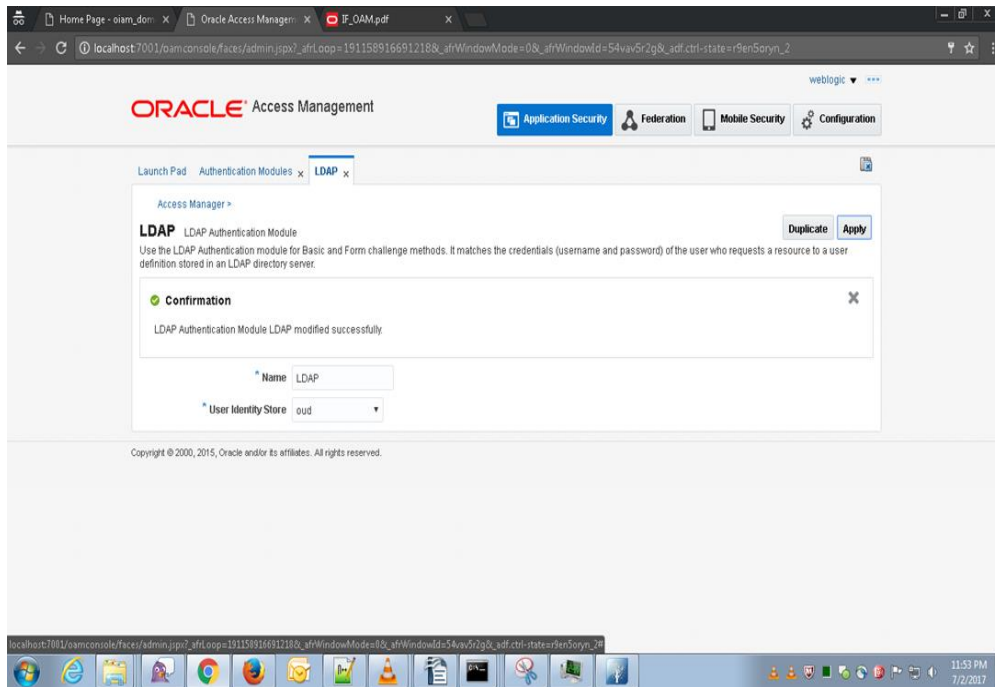
Add another response as below and click apply



9. Goto authentication policies

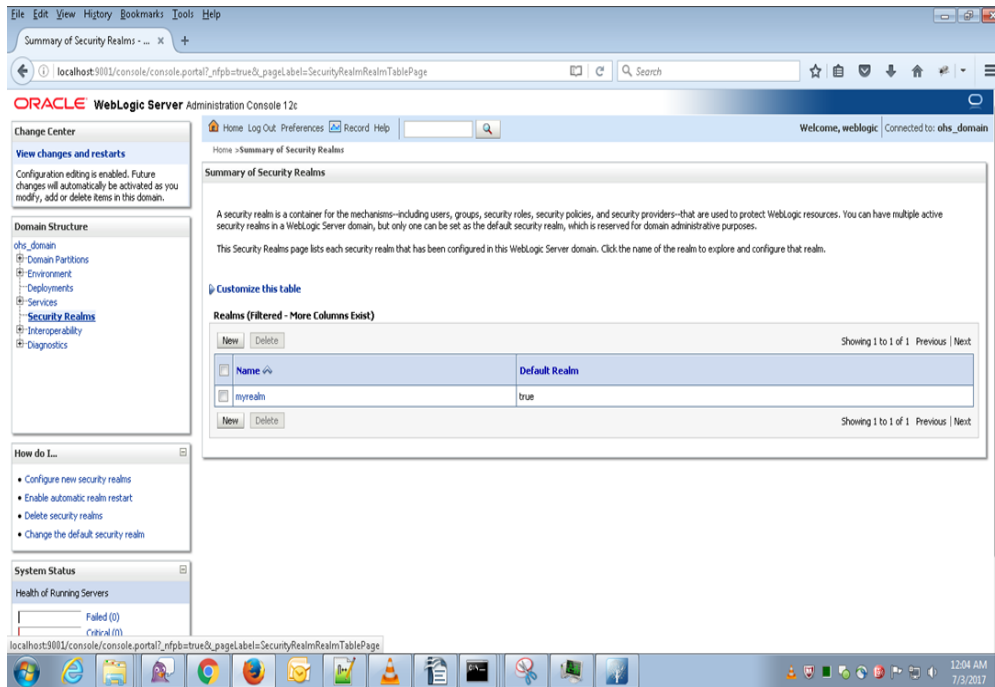


Goto Launchpad click authentication modules and click search and select LDAP

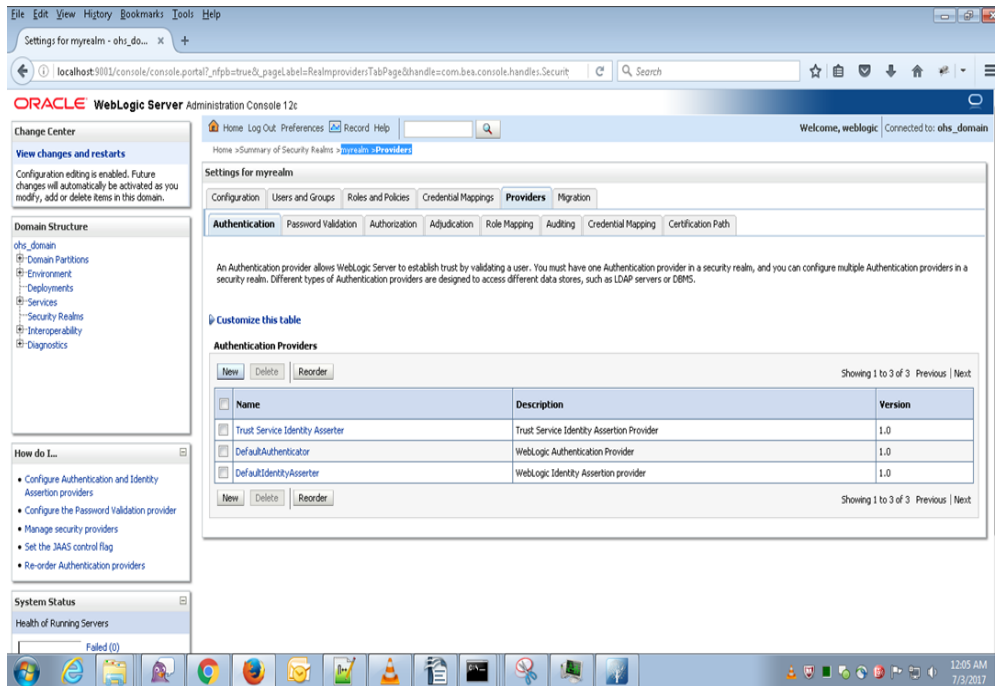


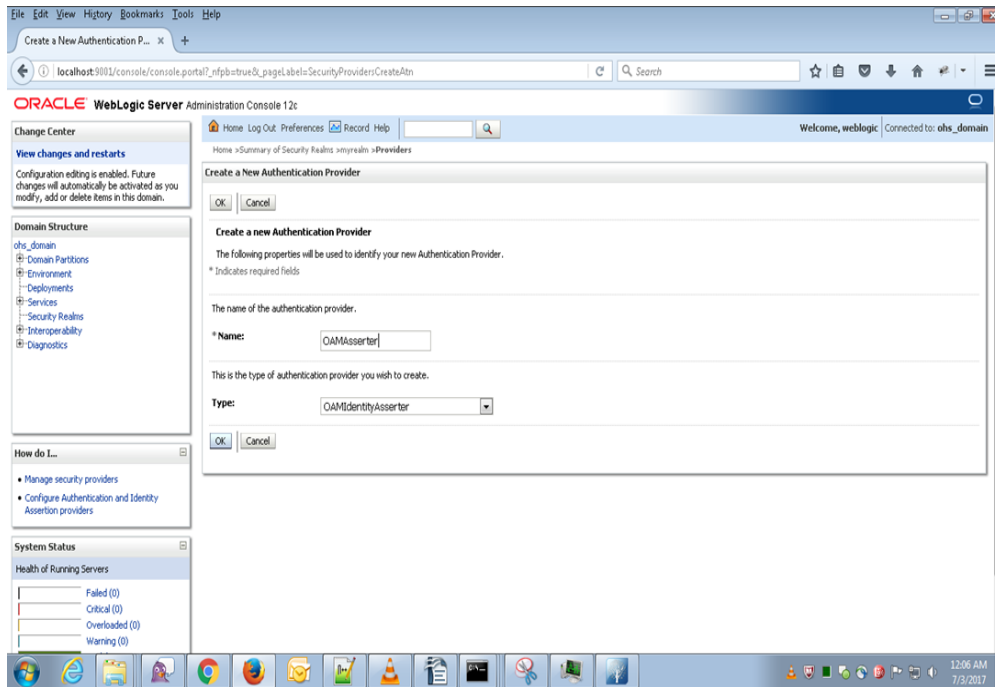
## 10. Configure OHS security realms.

Click myrealm



Click new

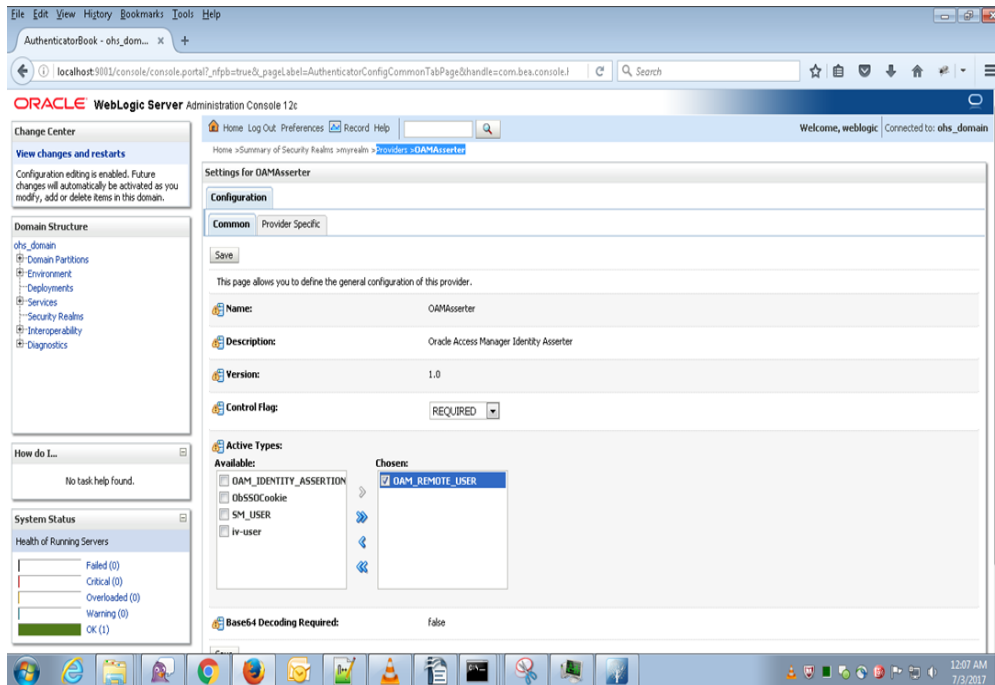




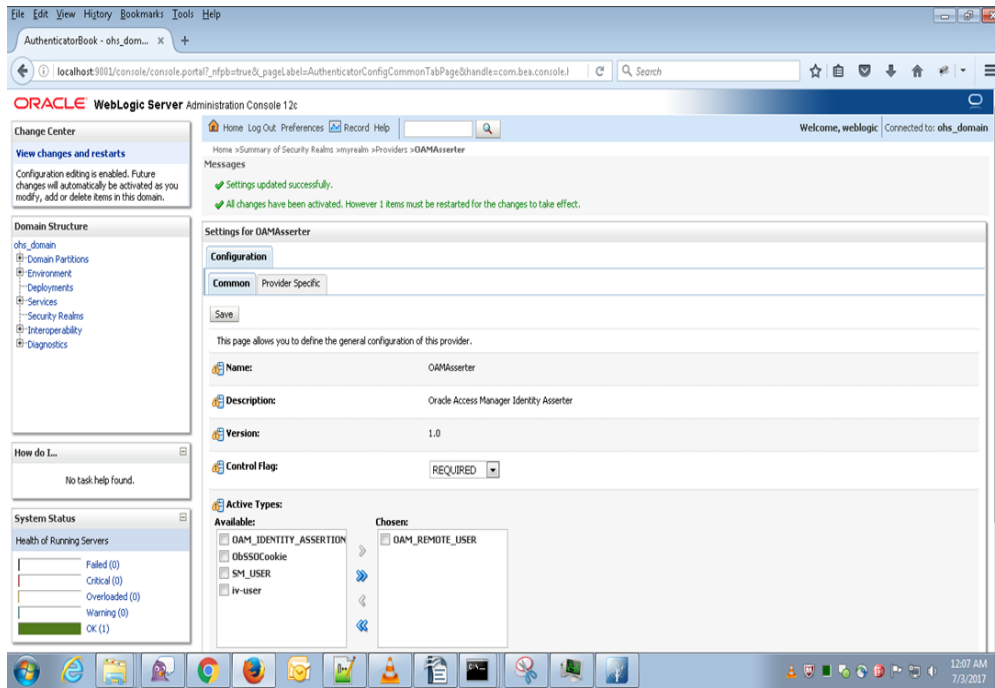
Click ok

Click OAM asserter

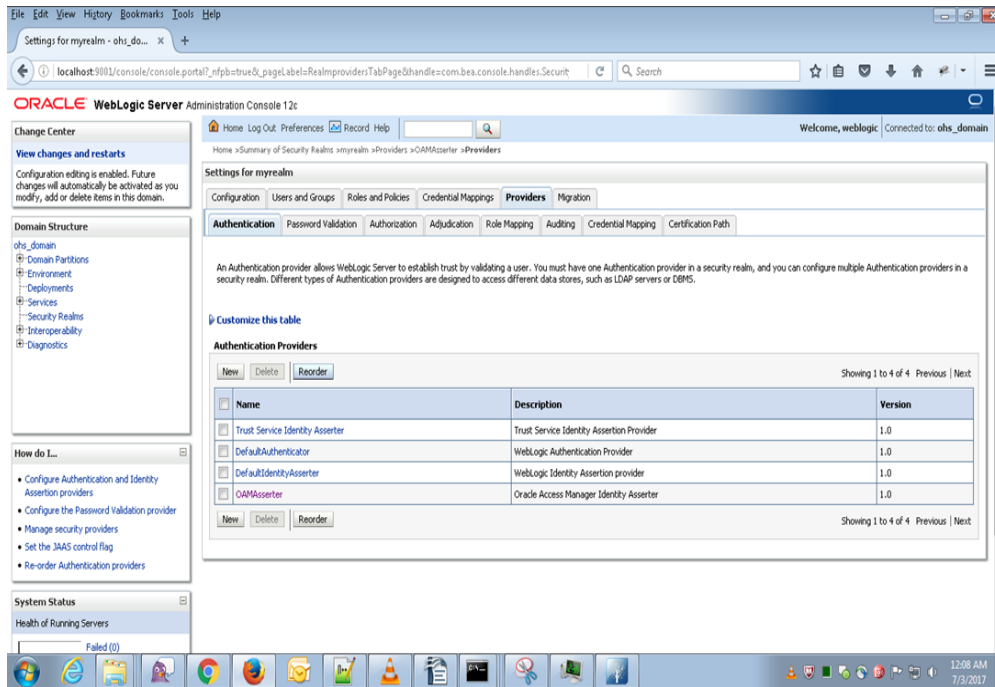
Select control flag as required and check OAM\_REMOTE\_USER



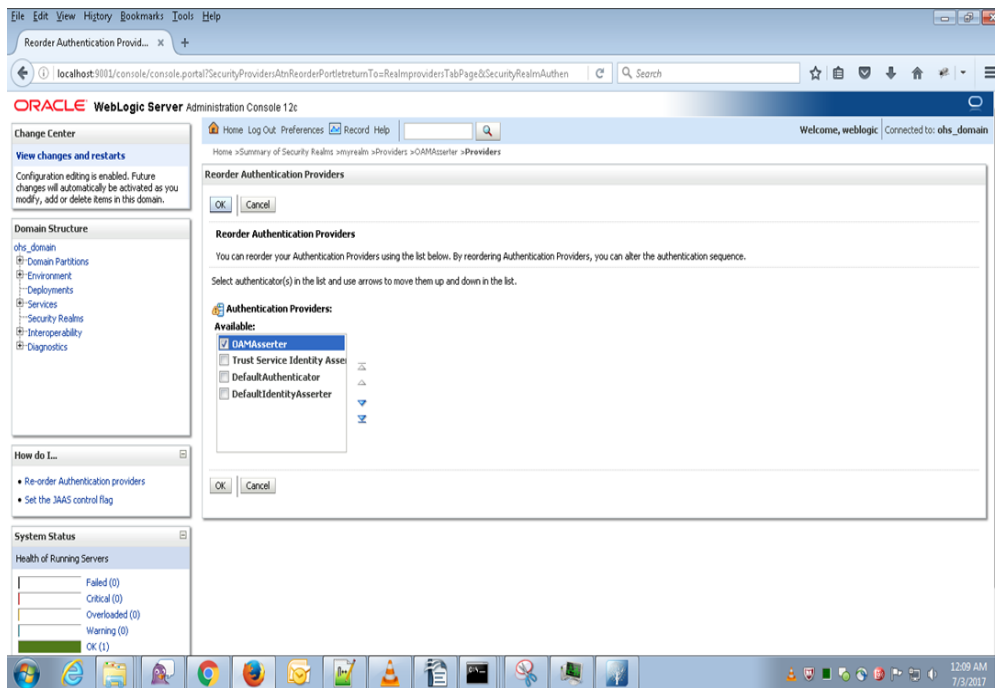




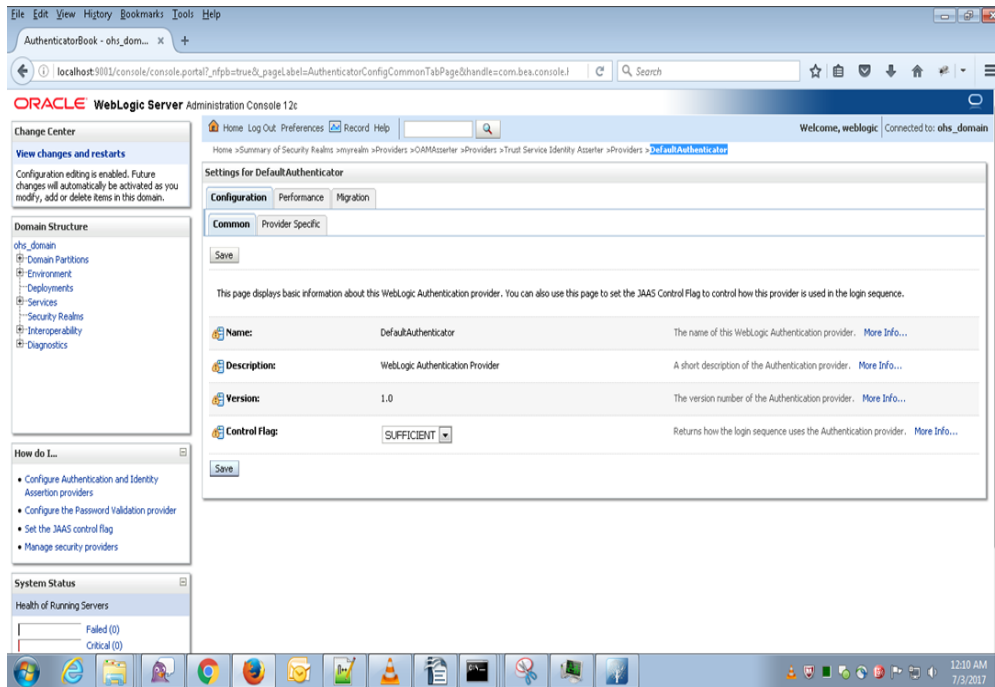
Click reorder



Order authentication provider as below



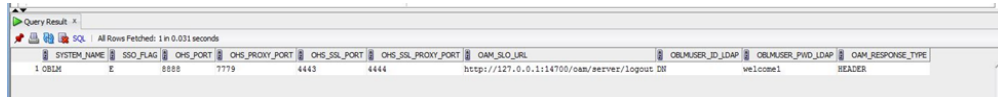
Click default authenticator and change control flag to sufficient



11. Restart Adminserver, Node Manager and OHS instance.

## 5. Configuration in OBLM

1. In **smtb\_sso\_details** table set **SSO\_FLAG** as **E**, **OHS\_PORT** as OHS listener port , **OBLMUSER\_ID\_LDAP** as DN , **Logout URL** as hostname:port(oam\_server managed server port)/oam/server/logout, **OAM\_RESPONSE\_TYPE** as HEADER



The screenshot shows a database query result for the 'smtb\_sso\_details' table. The table has the following columns: SYSTEM\_NAME, SSO\_FLAG, OHS\_PORT, OHS\_PROXY\_PORT, OHS\_SSL\_PORT, OHS\_SSL\_PROXY\_PORT, OAM\_SSO\_URL, OBLMUSER\_ID\_LDAP, OBLMUSER\_PWD\_LDAP, and OAM\_RESPONSE\_TYPE. The data row shows: 1 OBLM, E, 8888, 7779, 4443, 4444, http://127.0.0.1:114700/oam/server/logout DN, welcome, and HEADER.

SYSTEM_NAME	SSO_FLAG	OHS_PORT	OHS_PROXY_PORT	OHS_SSL_PORT	OHS_SSL_PROXY_PORT	OAM_SSO_URL	OBLMUSER_ID_LDAP	OBLMUSER_PWD_LDAP	OAM_RESPONSE_TYPE
1 OBLM	E	8888	7779	4443	4444	http://127.0.0.1:114700/oam/server/logout DN	welcome	HEADER	

2. In **sstb\_user** and **smtb\_user** table map LDAP user. This can also be done during user creation in the application.

3. In UI ear in **fcubs.properties** file change SSO properties as below:

```
##### SINGLE SIGN ON PROPERTIES #####
PASSWORD_EXTERNAL=Y
SSO_KEY=DN
LDAP_DOMAIN=I-FLEX.COM
LDAP_SERVER_URL=LDAP://localhost:1389
SSO_REQ=Y
SECURITY_AUTHENTICATION=Simple
AUTH_TYPE=LDAP
LDAP_SSL_ENABLED=N
LDAPSERVER_TIMEOUT=0
EXT_USERLOGIN=Y
```

4. In host ear in host.config.properties change port to OHS\_listener port (ex 7777)

5. Deploy the application in OHS Server, configure data source, queues in server

6. Access the application using OHS listen port.

(Ex: ofss222486:7777/GLM/faces/LoginPage.jspx)

Enter the sso username and password

(SSO username can be created , deleted , updated in  
[http://<IP\\_Address>:<OUD\\_Port\\_No>/oudsm/faces/odsm.jspx](http://<IP_Address>:<OUD_Port_No>/oudsm/faces/odsm.jspx) )

Welcome

Enter your Single Sign-On credentials below

Username:

Password:

ofss222486:7777/GLM/faces/ma

ORACLE Oracle Banking Liquidity Management LMADMINUSER1

Dashboard Setup Batch Structure Maintenance FASTPATH



SSO Configuration  
Oracle Banking Liquidity Management  
Version 14.0.0.0  
[November] [2017]

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