

Step by step to Install & configure oracle Fusion Middle-ware

Before two week ago I published online article [here](#), talking about How to install Grid Infrastructure step by step and you can use as separate notes or you margin it with this one to create SSO environment, I tried to make all my document so clear and easy to understand because of this I didn't choose to Put all steps in one document it will be Long steps and boring.

In this document I will talk about Fusion Middle-ware, in my case I used the below products included with version, I will mention the benefits for everyone.

- Oracle Weblogic 10.3.6
- Oracle Identity Management (OID).
- Oracle Access Management (OAM).
- Oracle Web gate.
- Oracle Web tier.
- Oracle Business Intelligent.
- Oracle SOA.

Most of the versions are 11.1.1.6, and because I am using as operating system Oracle Solaris SPARC 11.1 I faced issues with certification Especially with OAM, but All Certification Patches available Online on Oracle Support [here](#).

All Software's were downloaded from Oracle OTN and Oracle E Delivery.

About the Author

Osama Mustafa – Oracle ACE, a database specialist, Certified Oracle Professional (10g, 11g), Certified Ethical hacker (Penetration testing), and Sun System Administrator, author of book Oracle Penetration Testing. Publishes many articles, including Oracle database articles in his blog, Fusion Middle Ware and Oracle RAC Documentation, Including to this he is Active Member On Oracle OTN and other Groups.

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Slid-Share: [@Osama Mustafa](https://www.slideshare.net/OsamaMustafa).

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Blog: <http://osamamustafa.blogspot.com>.

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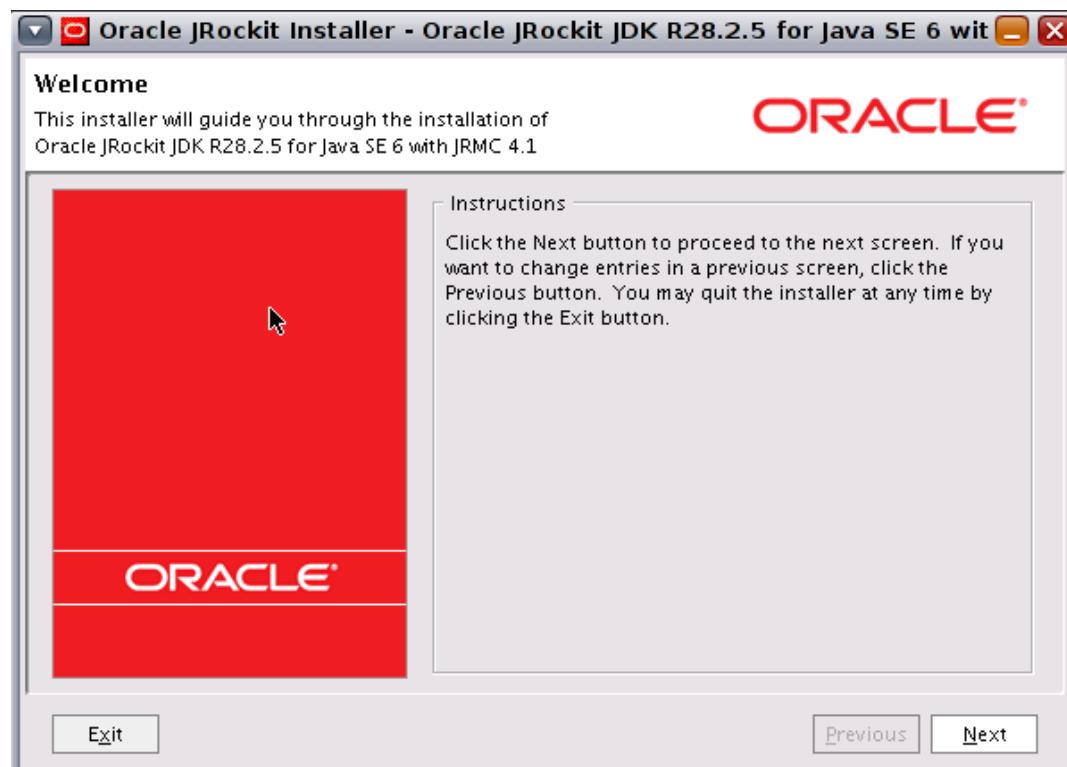
To make your Life Easier install web logic just to remember web logic is generic for all Platforms but one main difference Java version on windows we use JDK but in my case I have to Install JRockit, **Just to avoid error as much as I can, first I will Install Oracle Binary Only then Complete the Configuration.**

To Install it all you have to do is run it like the below:

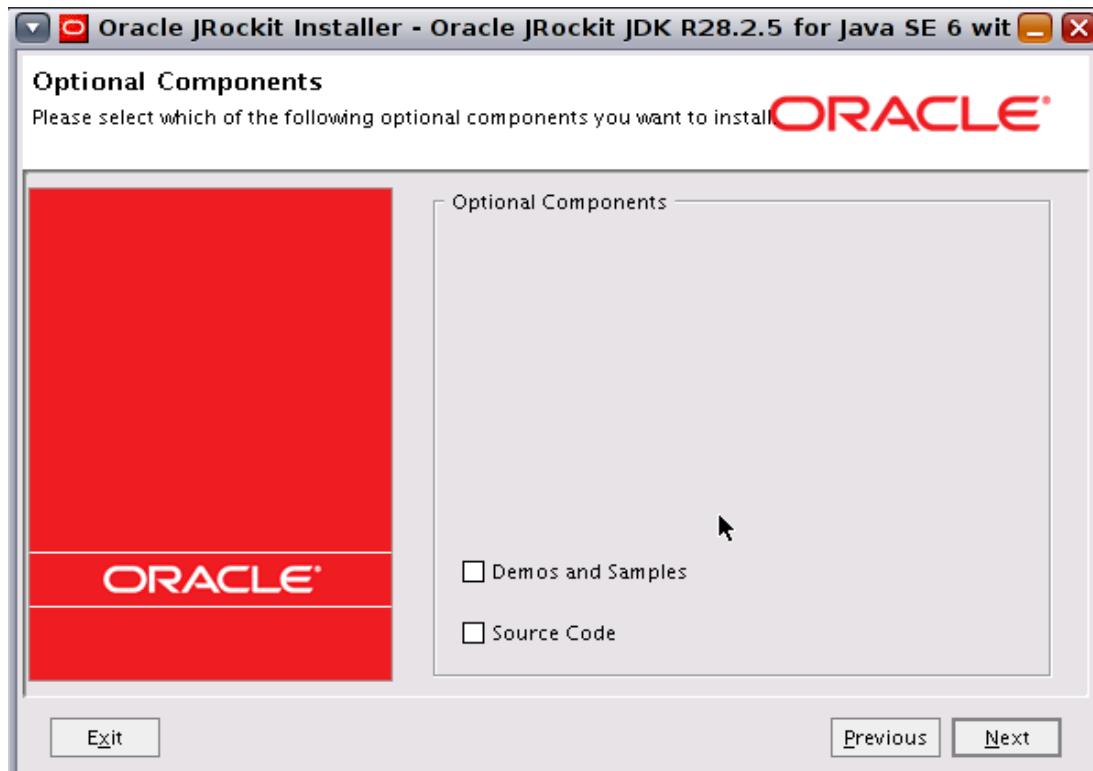
```
oracle@Test-app-1:~/jrockit$ ./jrockit-jdk1.6.0_37-R28.2.5-4.1.0-solaris-sparcv9.bin
```

```
Extracting 0%.....100%
```

GUI will be opened:



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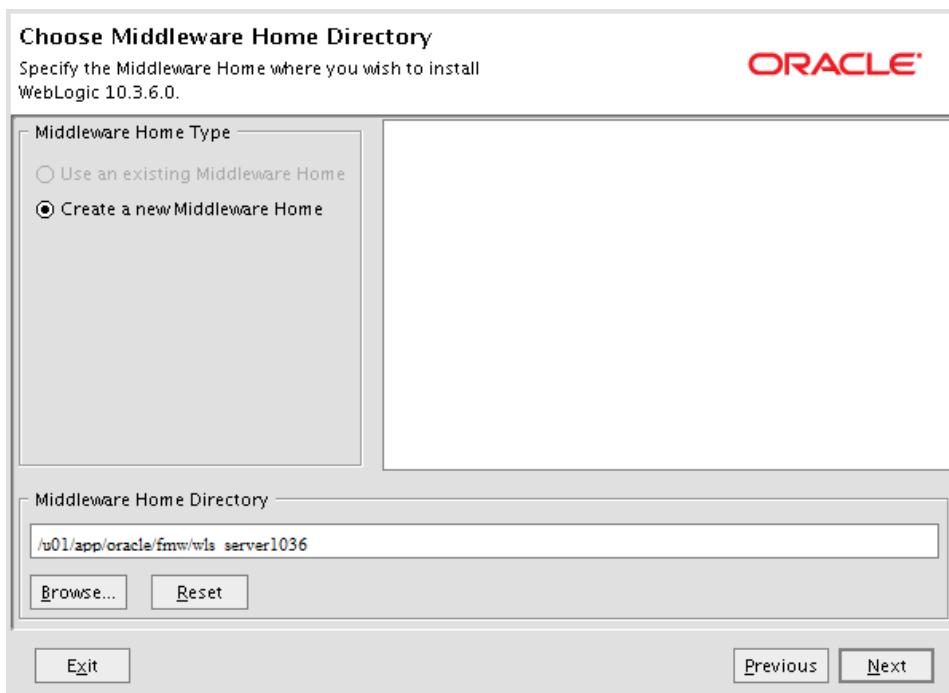
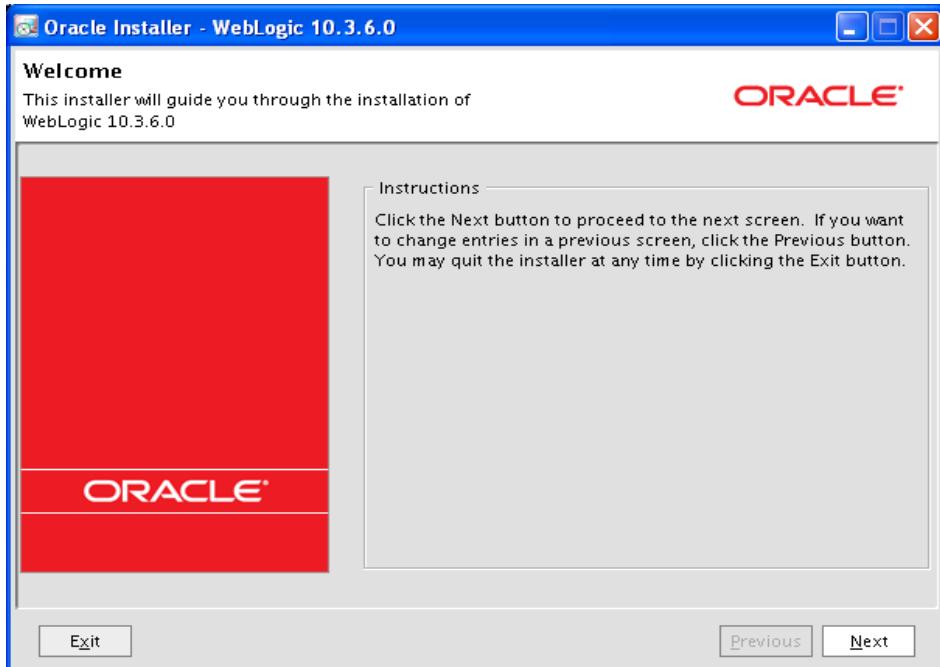
Next And Done.

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Install Weblogic Using JRockit with the below command:

```
oracle@Test-App-1:~/weblogic$ /u01/app/oracle/fmw/jdk/bin/java -jar wls1036_generic.jar
```

Weblogic Installation



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Register for Security Updates

Provide your email address for security updates and to initiate configuration manager.

ORACLE

Email:

Use My Oracle Support email address/username

I wish to receive security updates via My Oracle Support

Support Password:

Exit **Previous** **Next**

Choose Install Type

Select the type of installation you wish to perform.

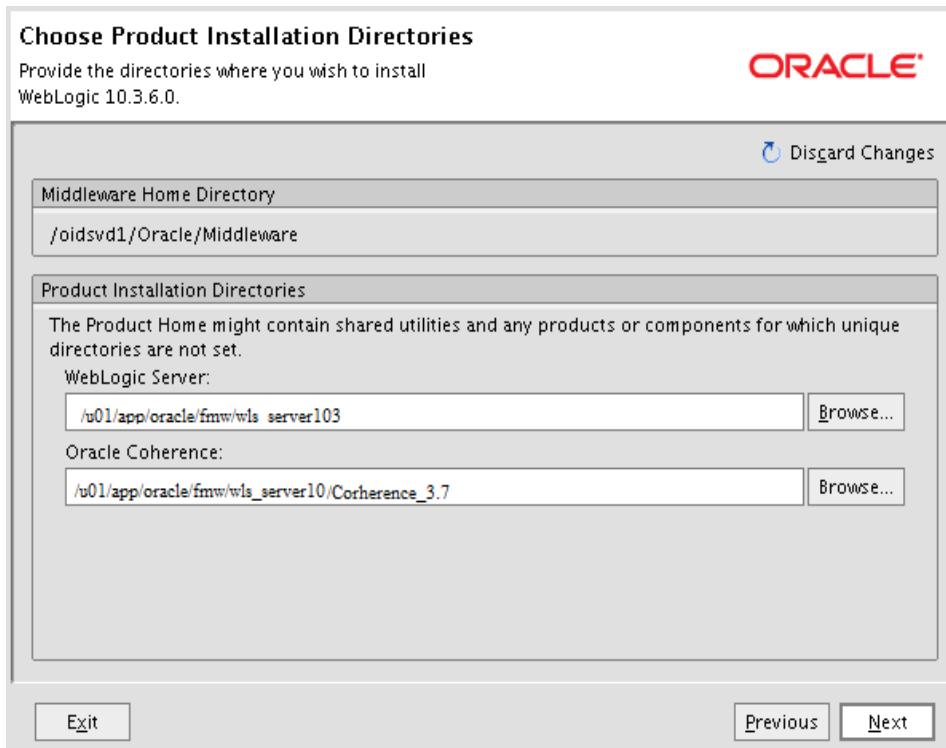
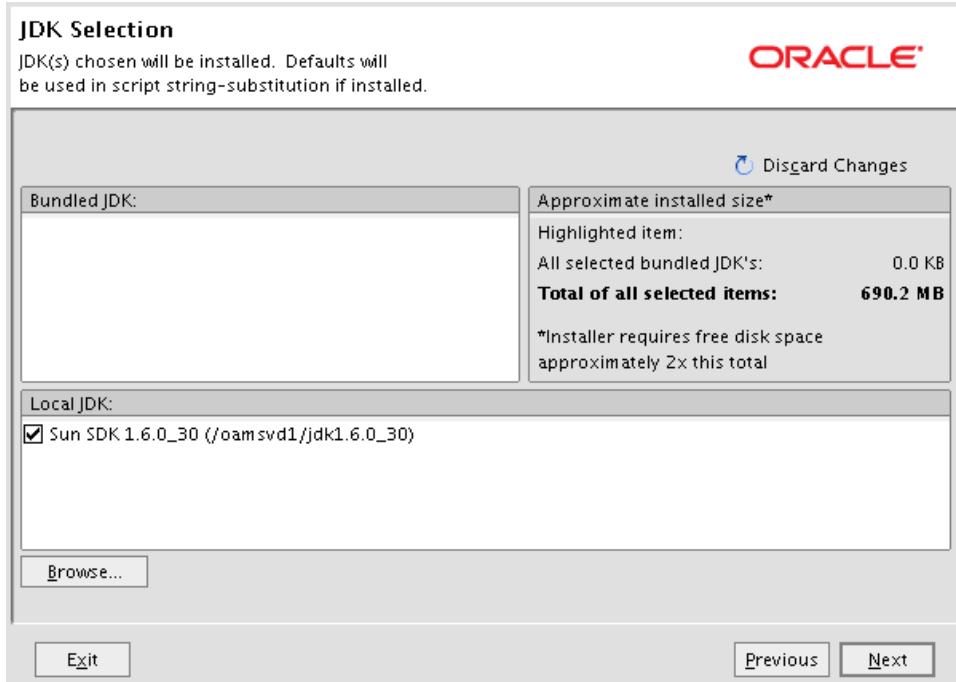
ORACLE

Typical
Install the following product(s) and component(s):
 WebLogic Server
 Oracle Coherence

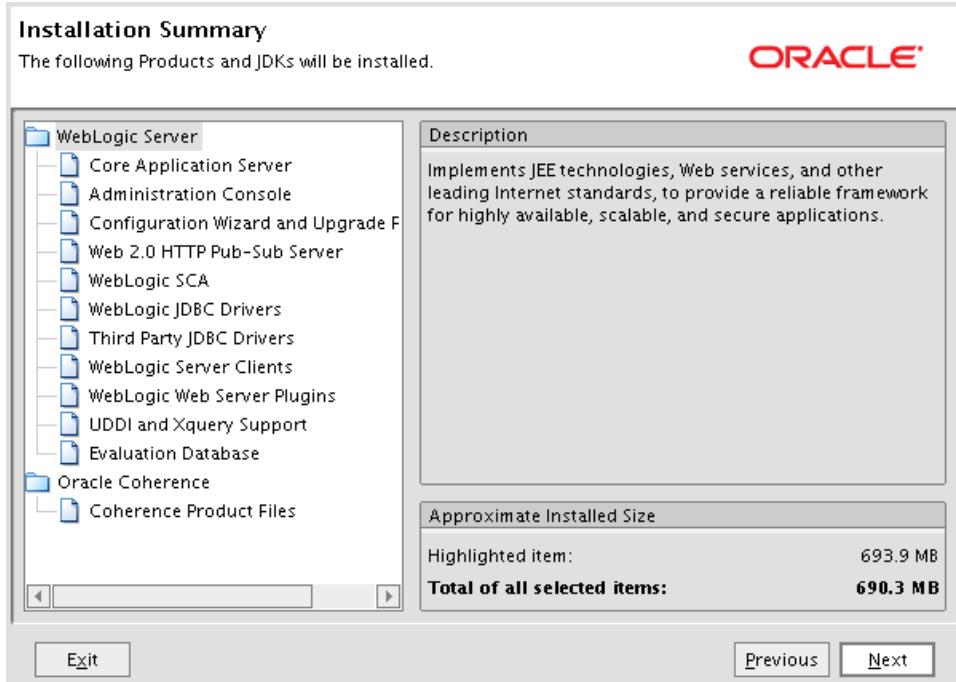
Custom
 Choose software products and components to install and perform optional configuration.

Exit **Previous** **Next**

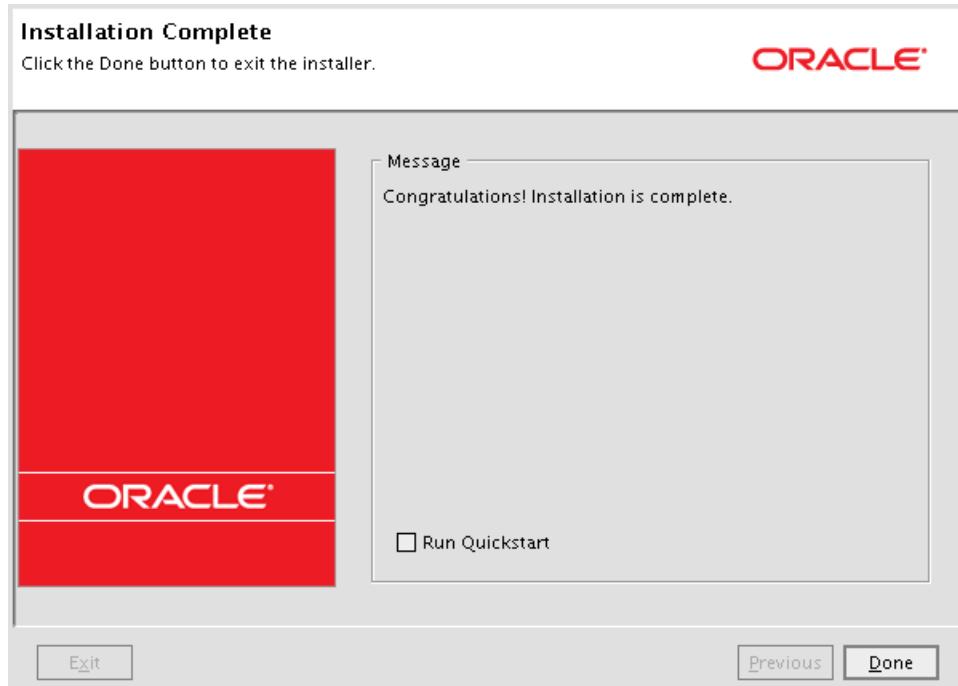
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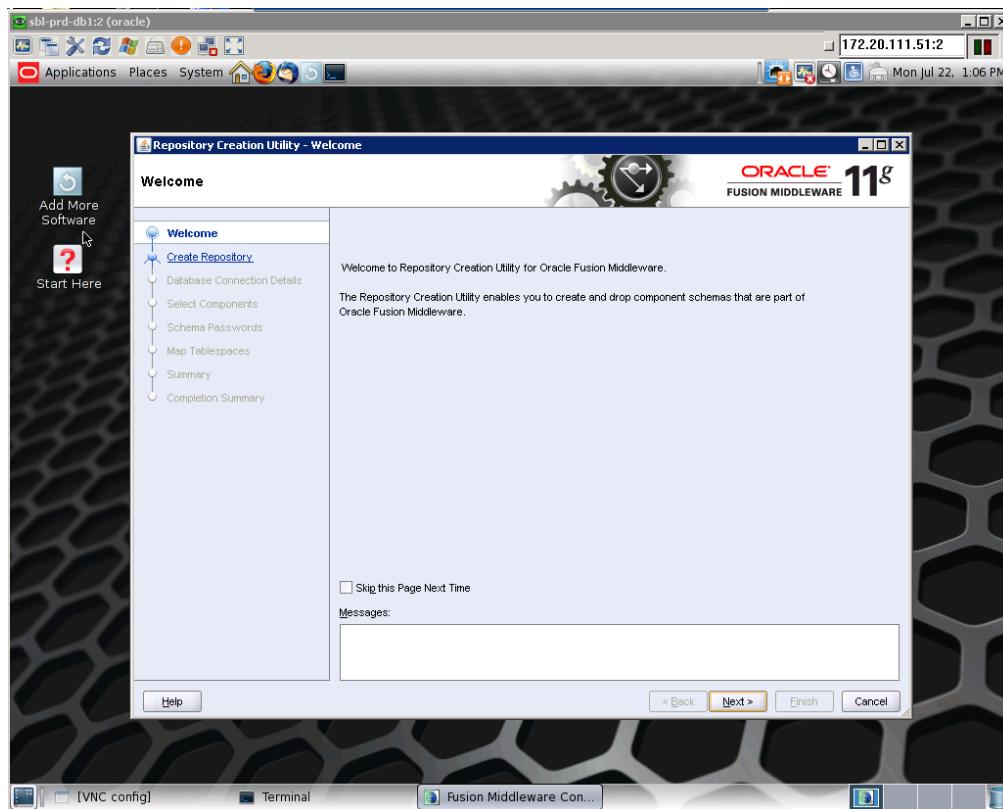


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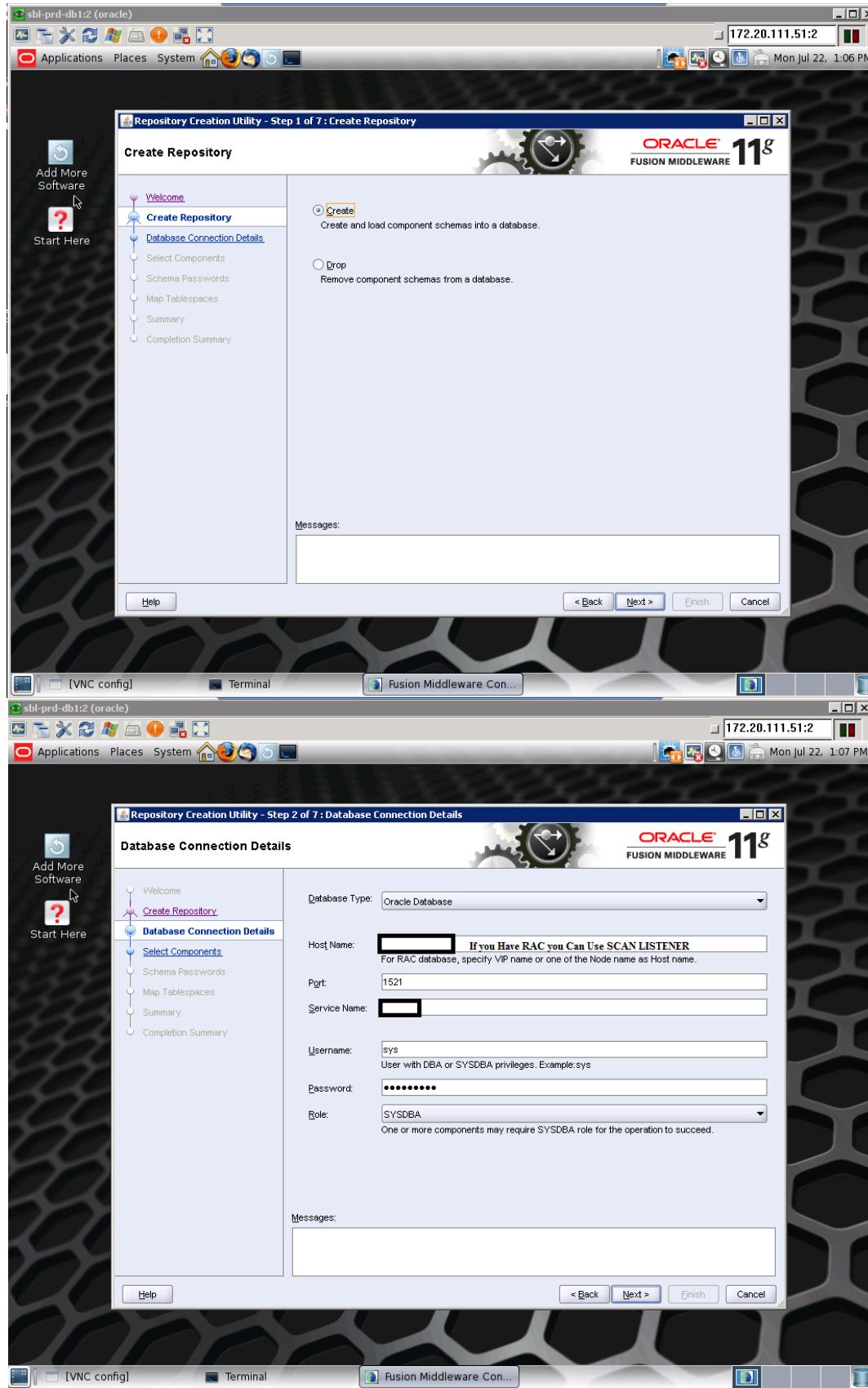
Now we have Weblogic Binary Installed On Platform, Let's Install Oracle Identity Management (OID) , Notice In The Screen For Create OID schema On Database ODSM and ODS Schemas you have two Options Create them Using RCU (with Same Version as OID Software) Or Let OID Software Create them.

For Example In my case I am installing OID 11.1.1.6 So you should use RCU 11.1.1.6 and so on Check the Below Picture that Describe Creation in RCU Schema:

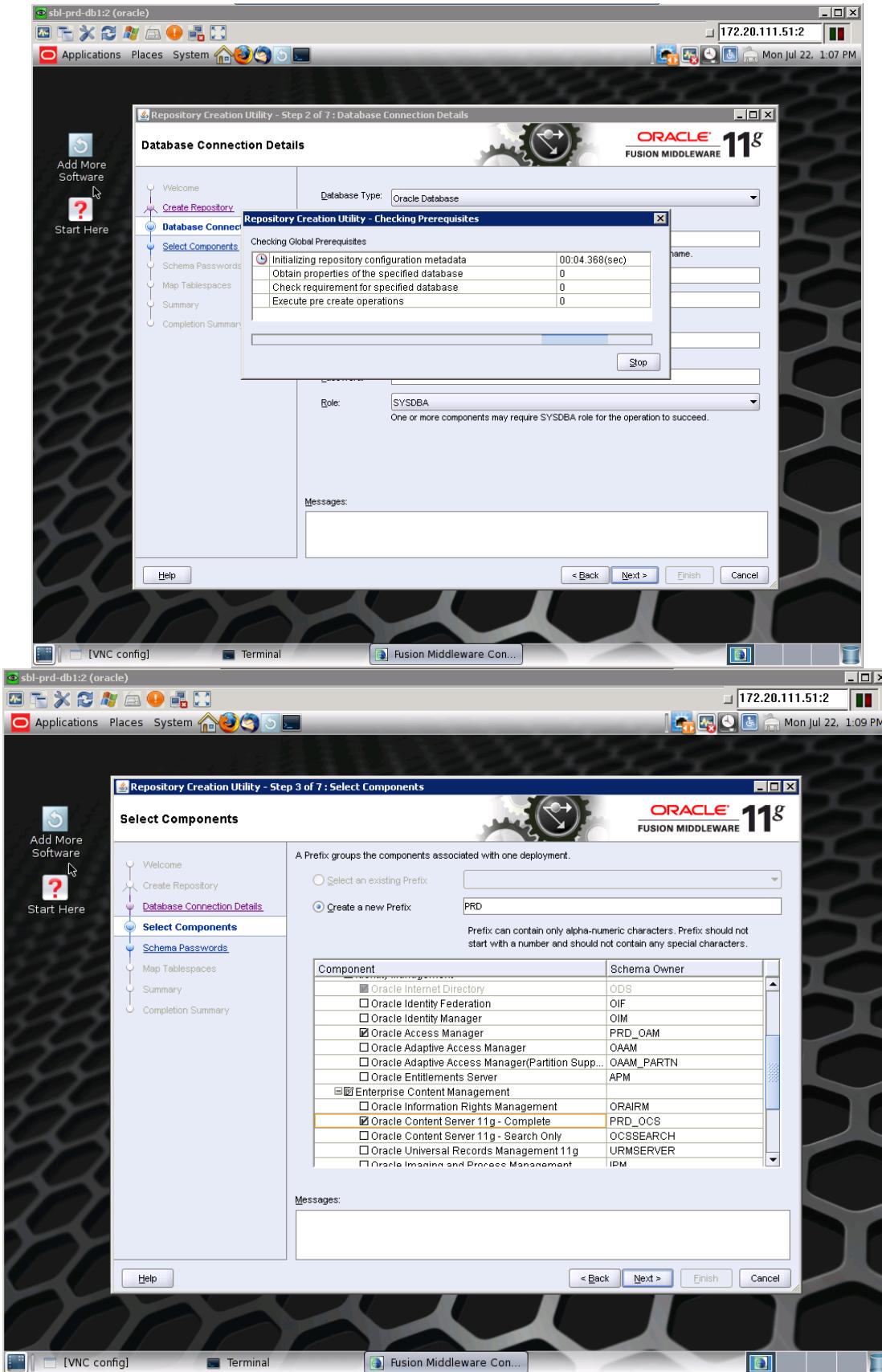
RCU Creation Example



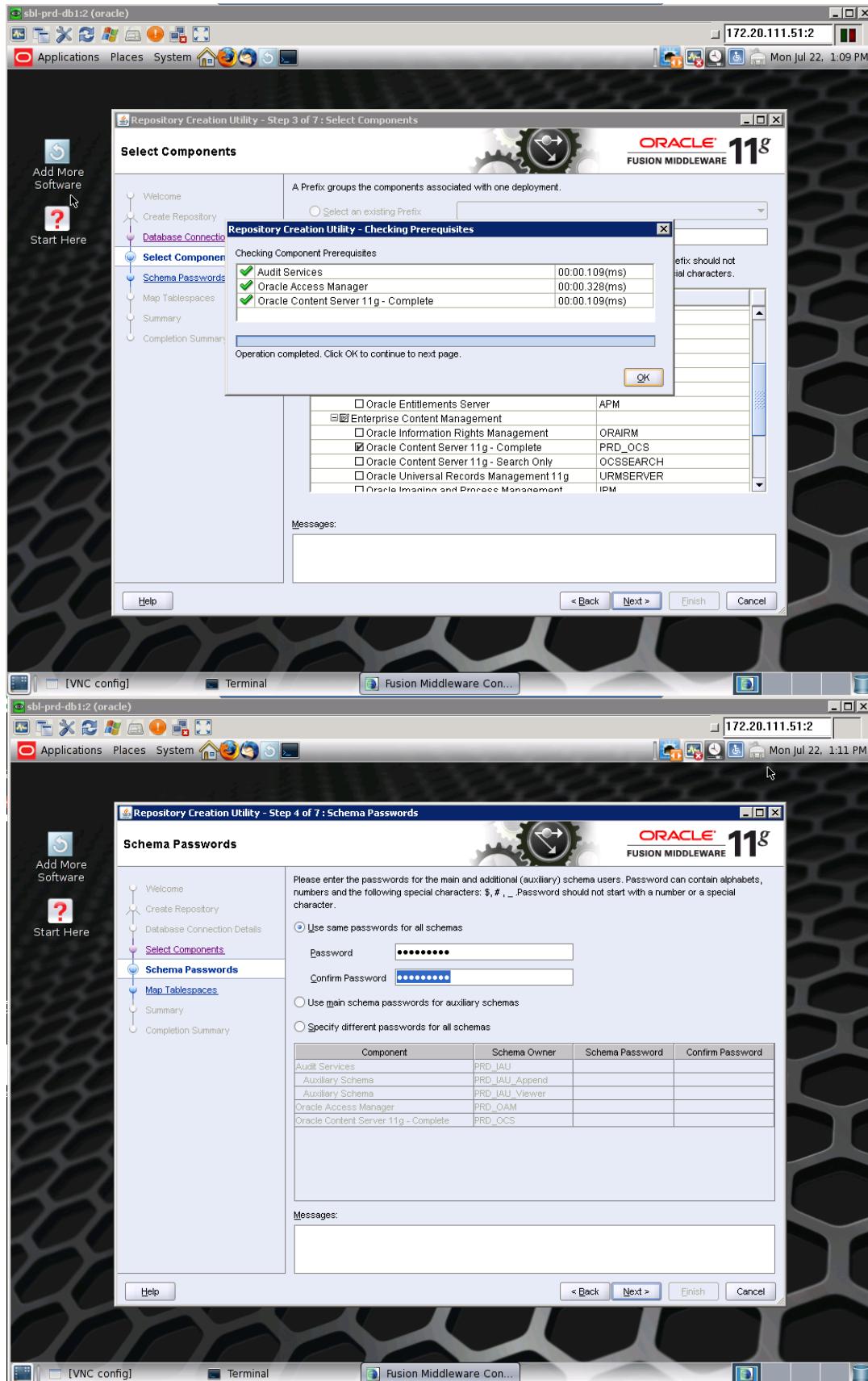
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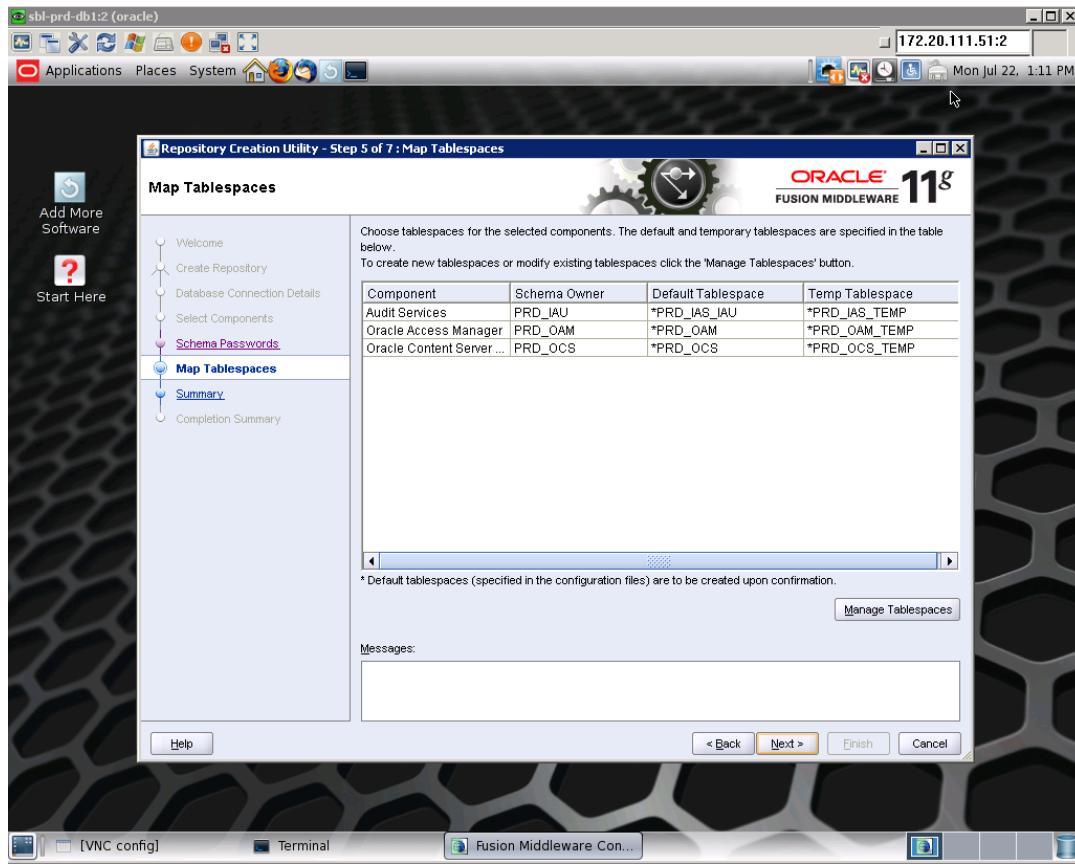
Step by step to Install & configure oracle Fusion Middle-ware



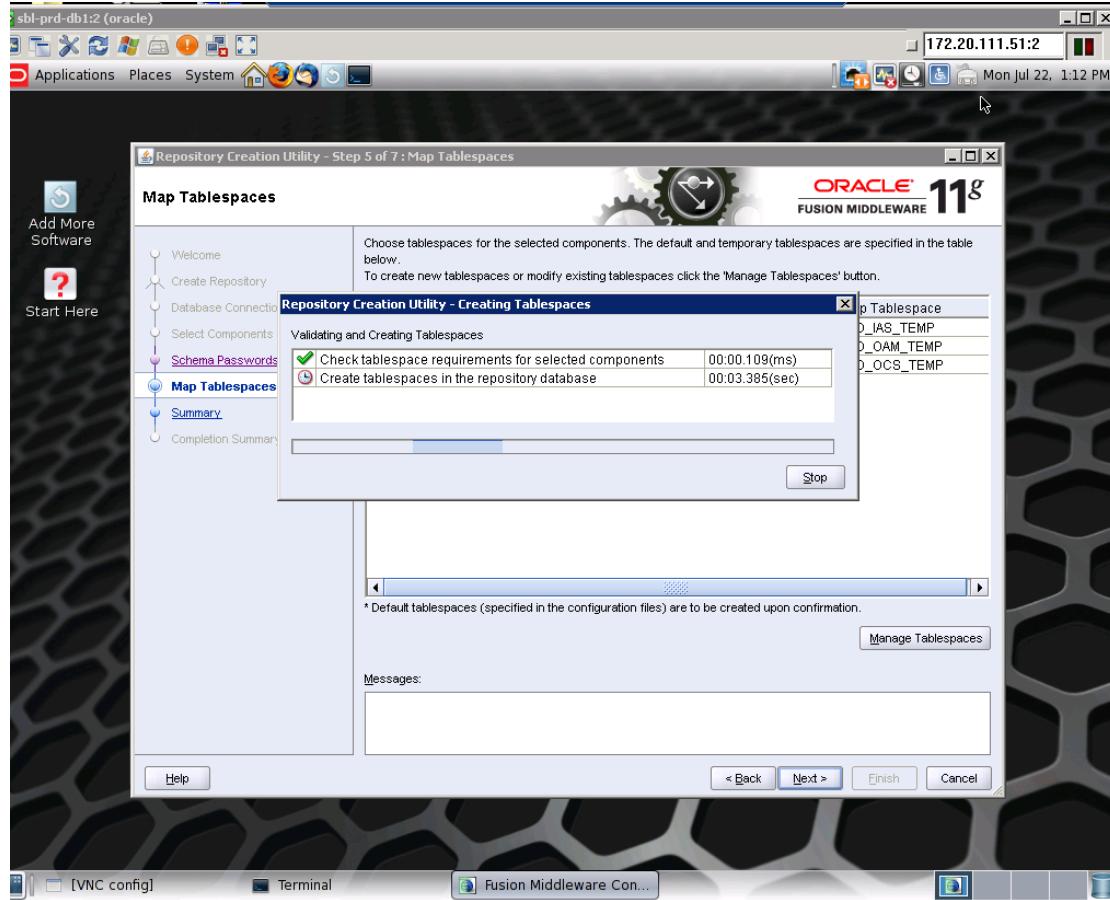
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The screenshot shows the Oracle Repository Creation Utility - Step 6 of 7: Summary screen. The interface includes a sidebar with navigation links like Welcome, Create Repository, Database Connection Details, Select Components, Schema Passwords, Map Tablespaces, and Summary. The main panel displays "Database details:" with fields for Host Name, Port (1521), Service Name, Connected As (sys), and Operation (Create). It also shows a table for "Prefix for (prefixable) Schema Owners:PRD".

Component	Schema Owner	Tablespace Type	Tablespace Name
Audit Services	PRD_IAS_JAU	Default Temp	PRD_IAS_TEMP
Oracle Access Manager	PRD_OAM	Additional Default Temp	PRD_OAM PRD_OAM_TEMP
Oracle Content Server 11g - Complete	PRD_OCS	Additional Default Temp	PRD_OCS PRD_OCS_TEMP

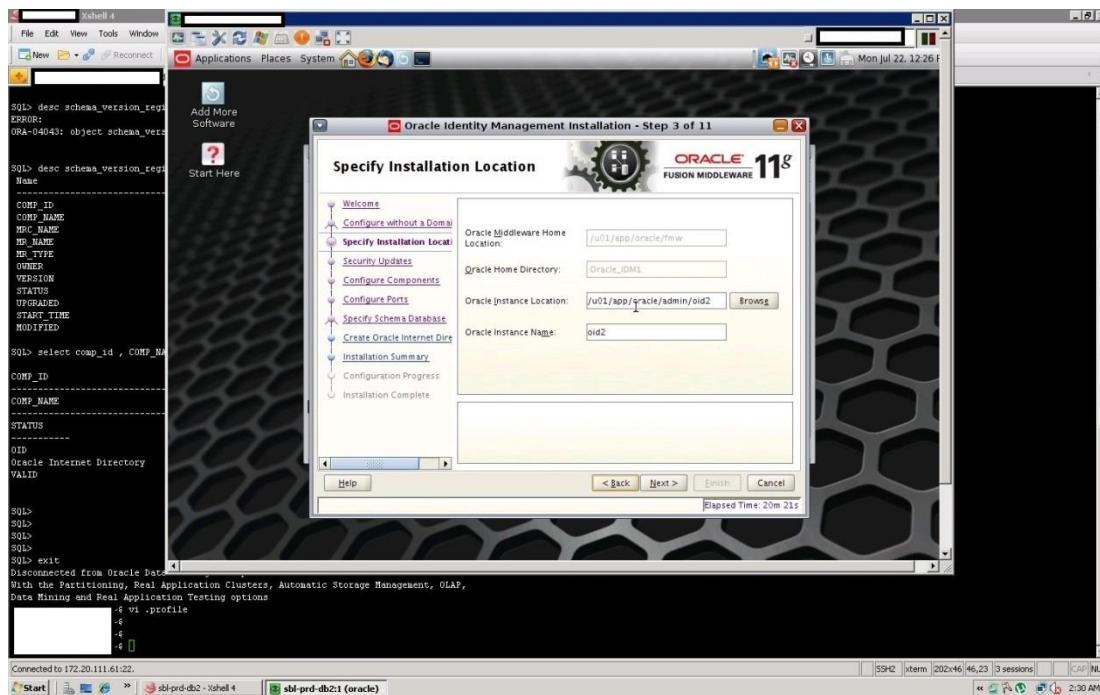
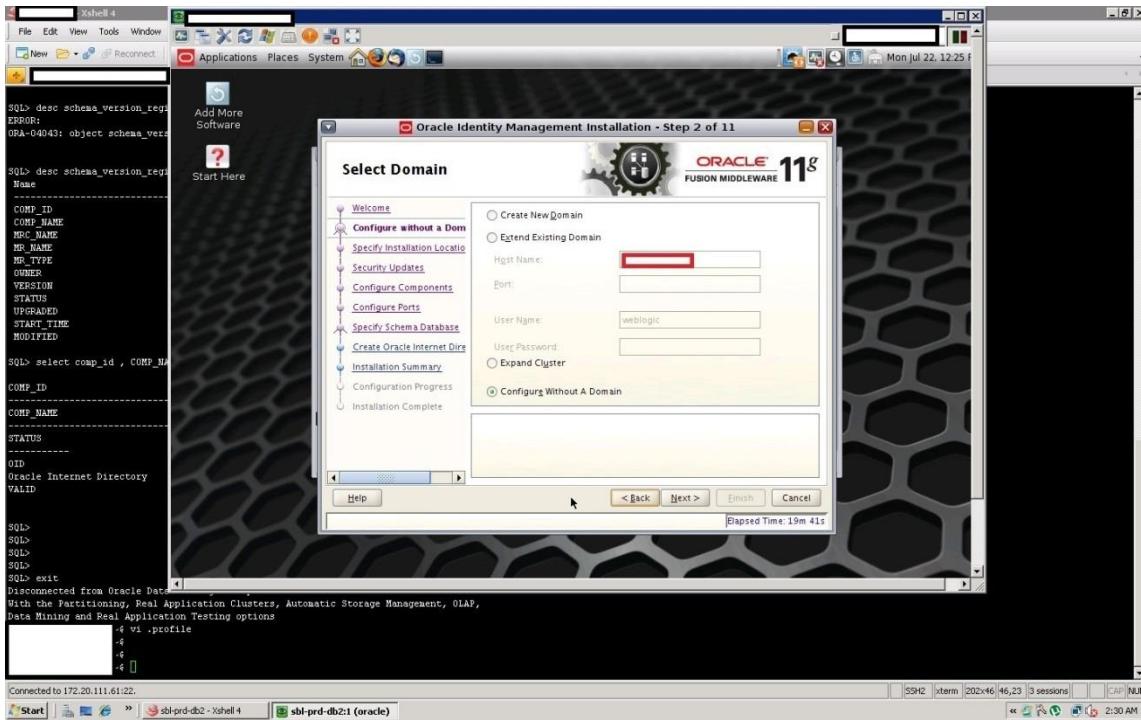
Repository Creation Utility - Step 7 of 7 : Completion Summary

The screenshot shows the Oracle Repository Creation Utility - Step 7 of 7: Completion Summary screen. The sidebar lists the steps completed. The main panel displays "Database details:" with fields for Host Name, Port (1521), Service Name, Connected As (sys), and Operation (Create). It also shows RCU Logfile and Component Log Directory paths, and the Execution Time (11 minutes 18 seconds). A table summarizes the execution status for each component.

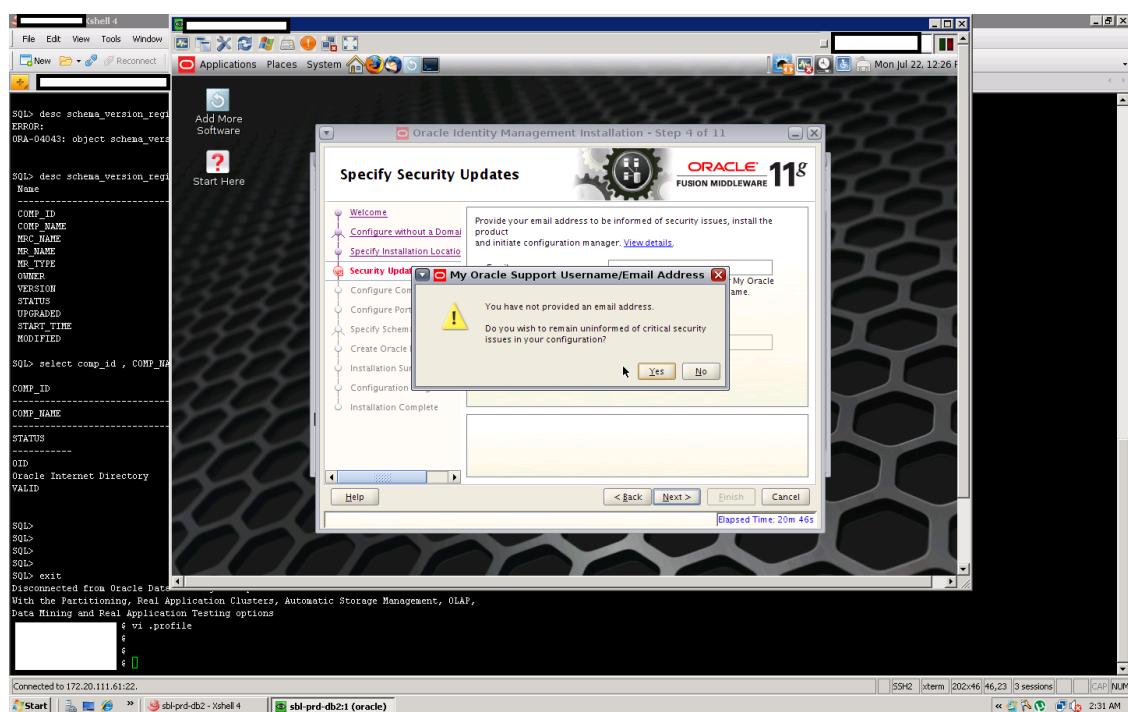
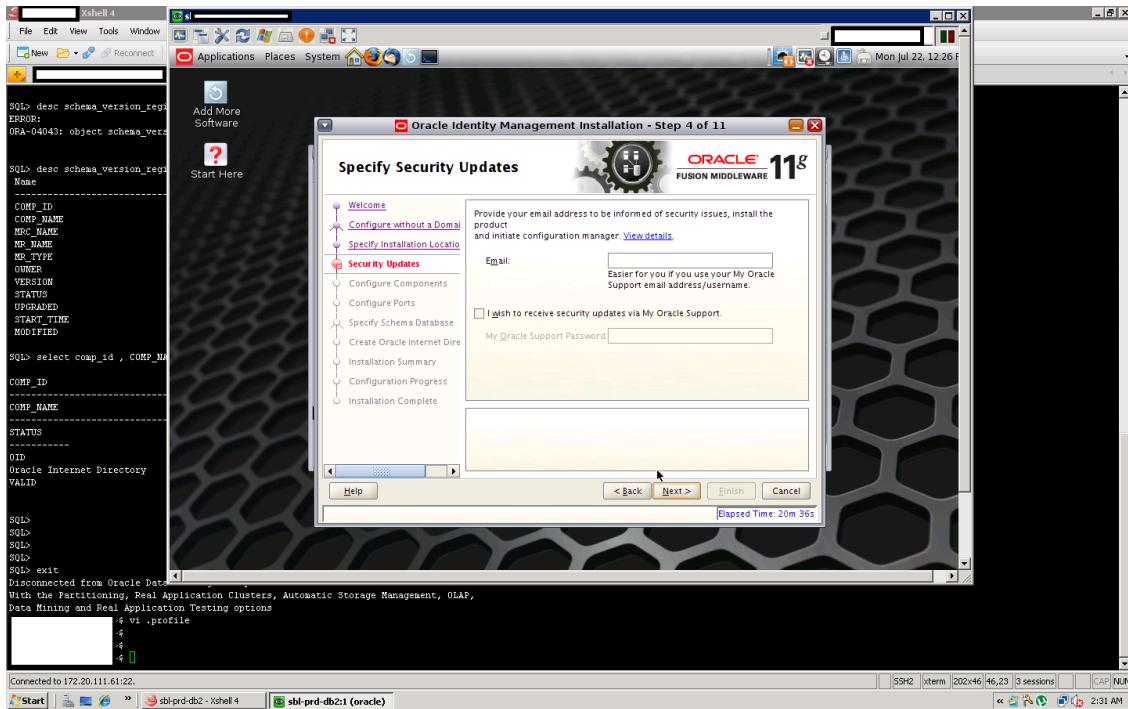
Component	Status	LogFile	Time
Audit Services	Success	iau.log	08:14:083(min)
Oracle Access Manager	Success	oam.log	01:07:907(min)
Oracle Content Server 11g - Complete	Success	contentserver11.log	01:07:470(min)

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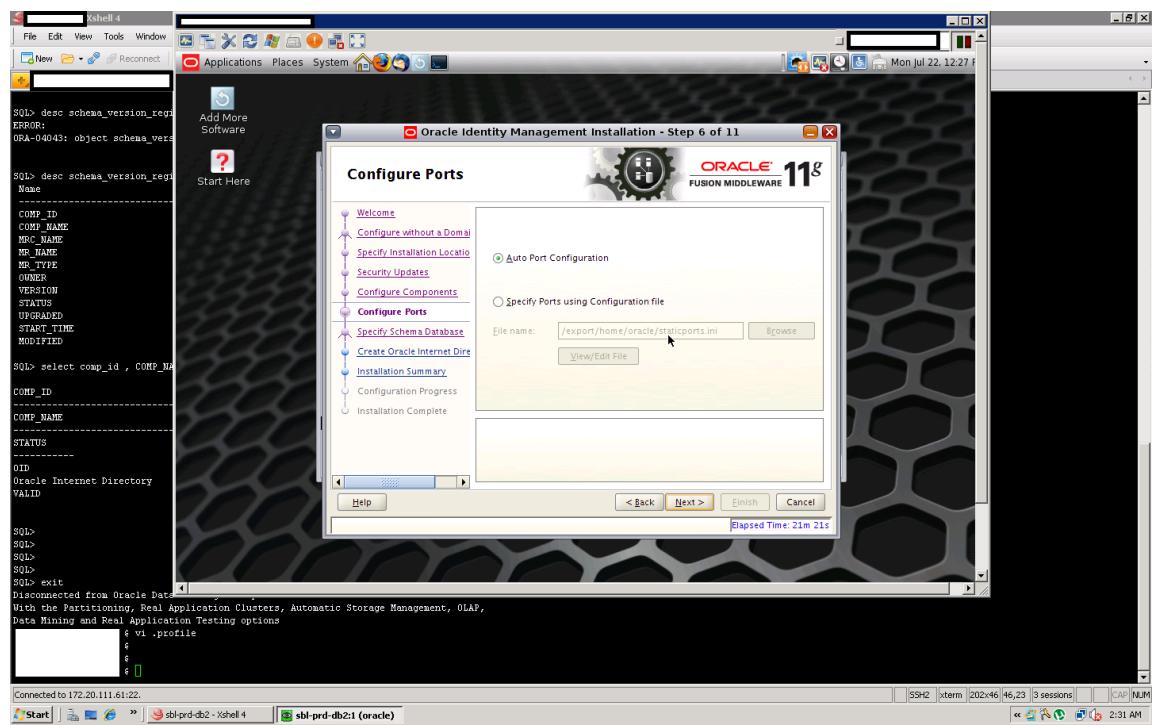
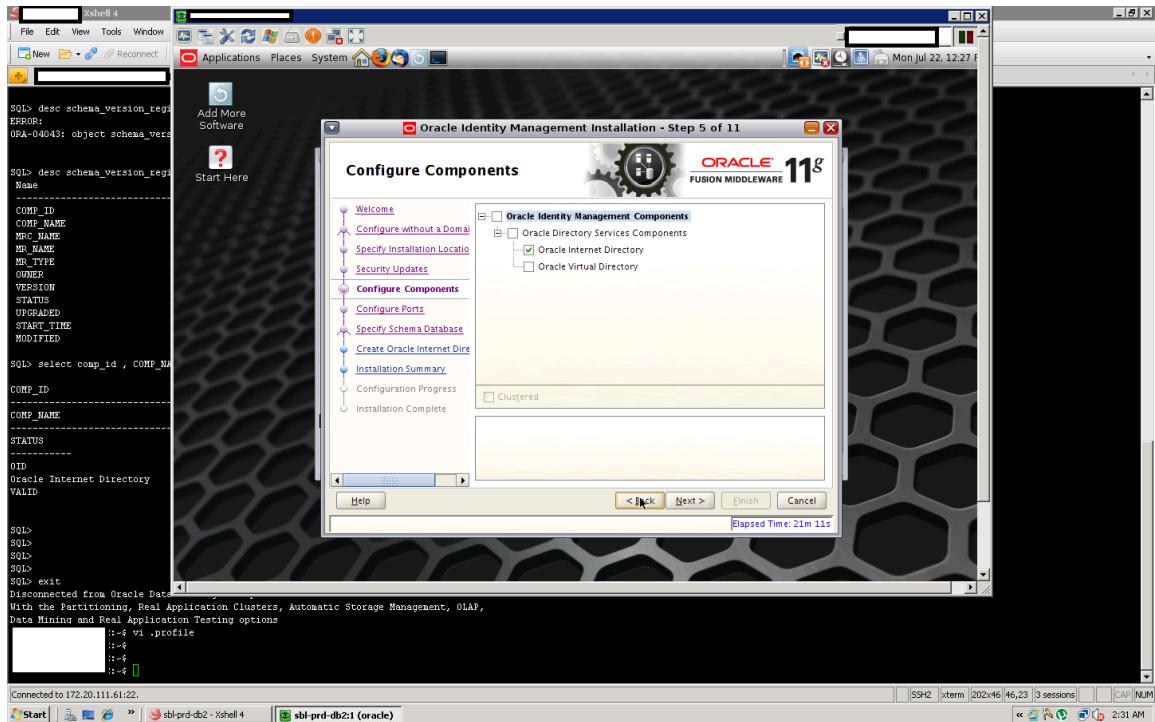
OID Installation



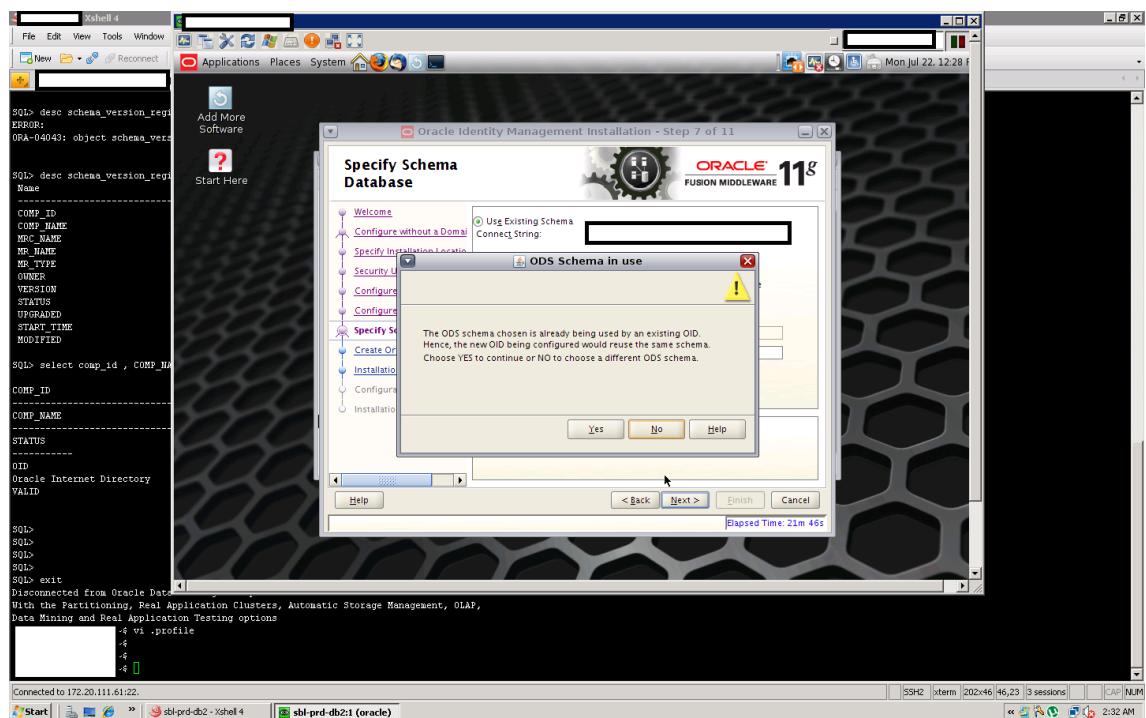
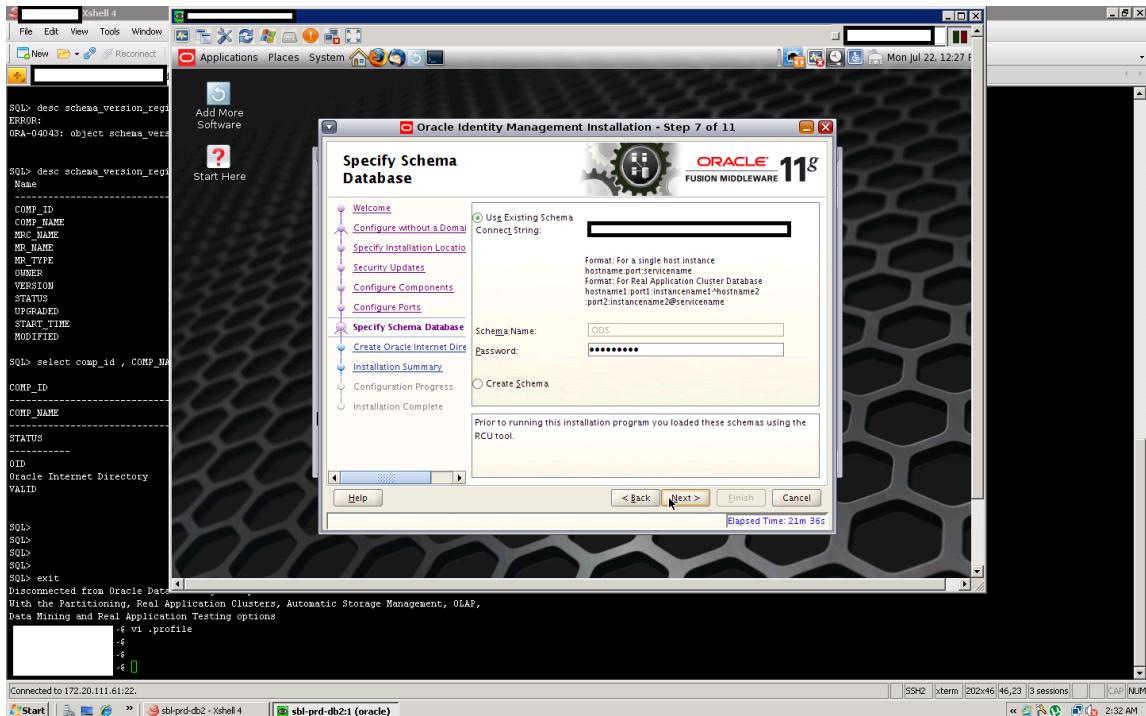
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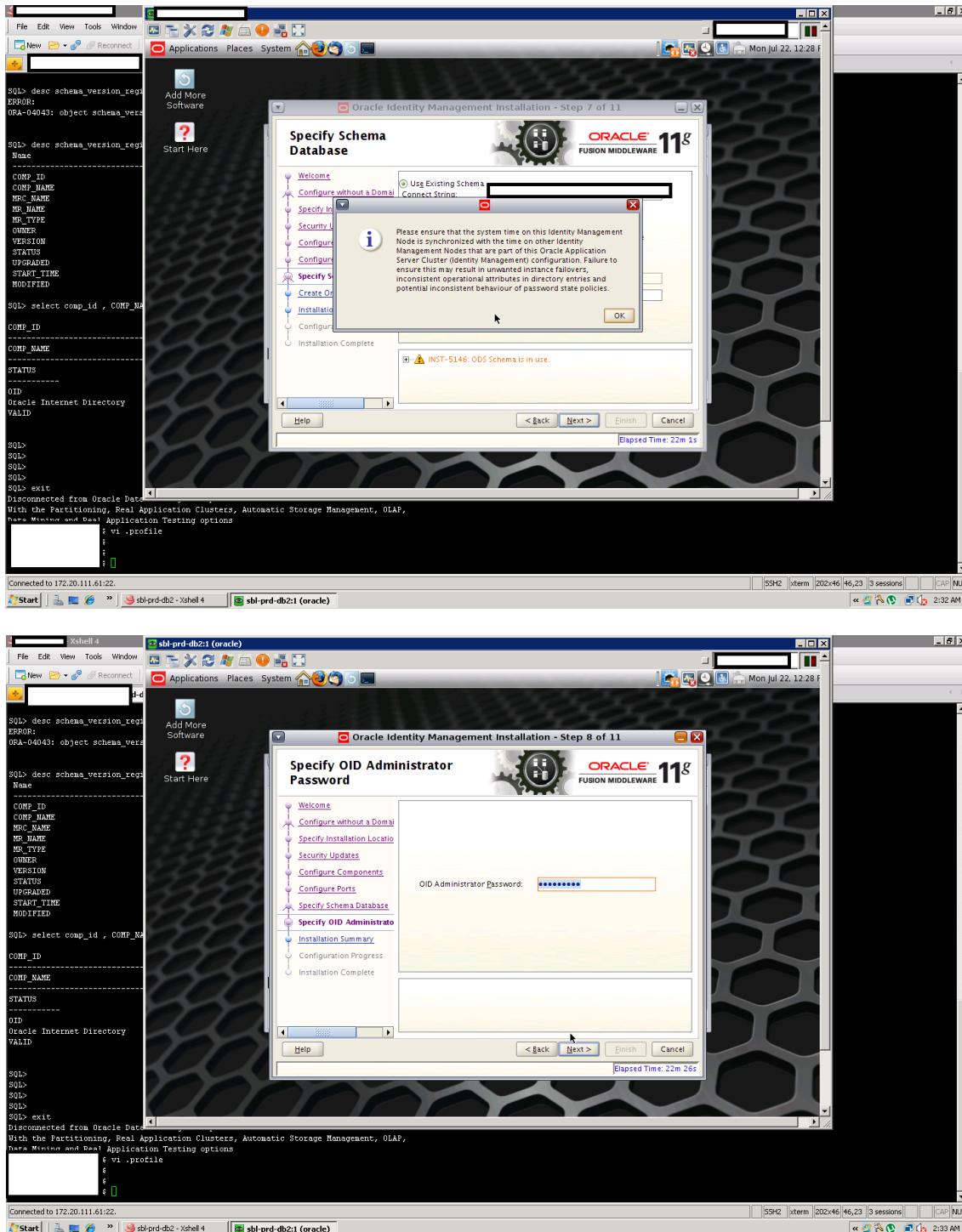
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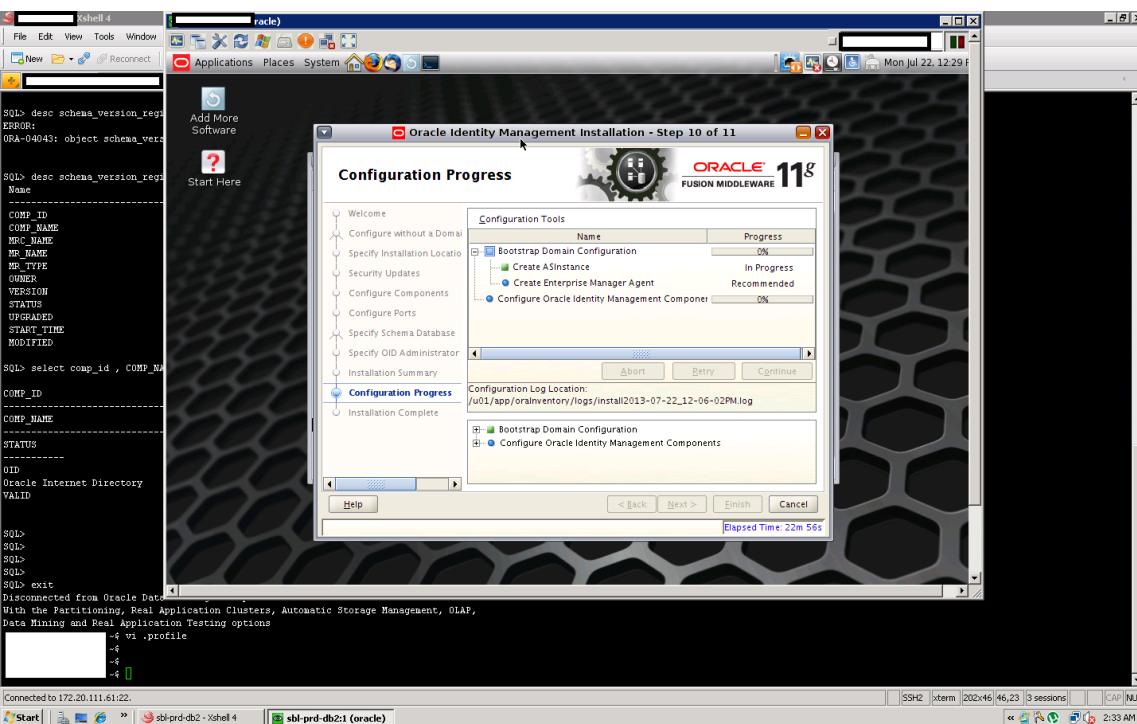
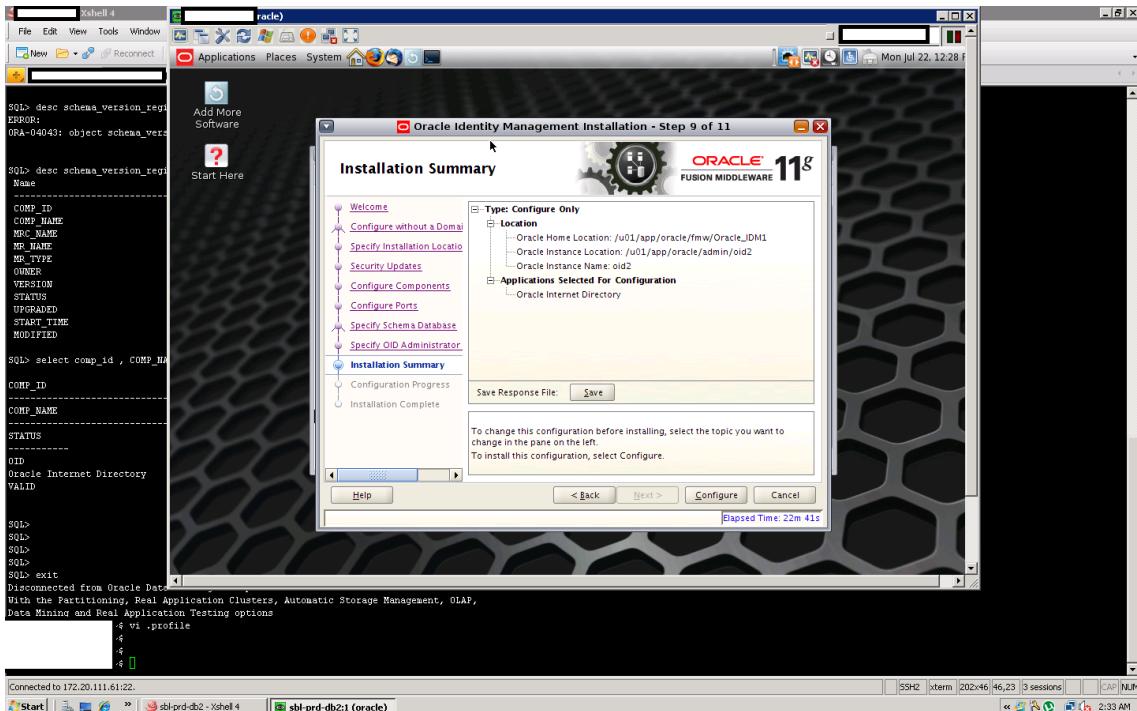
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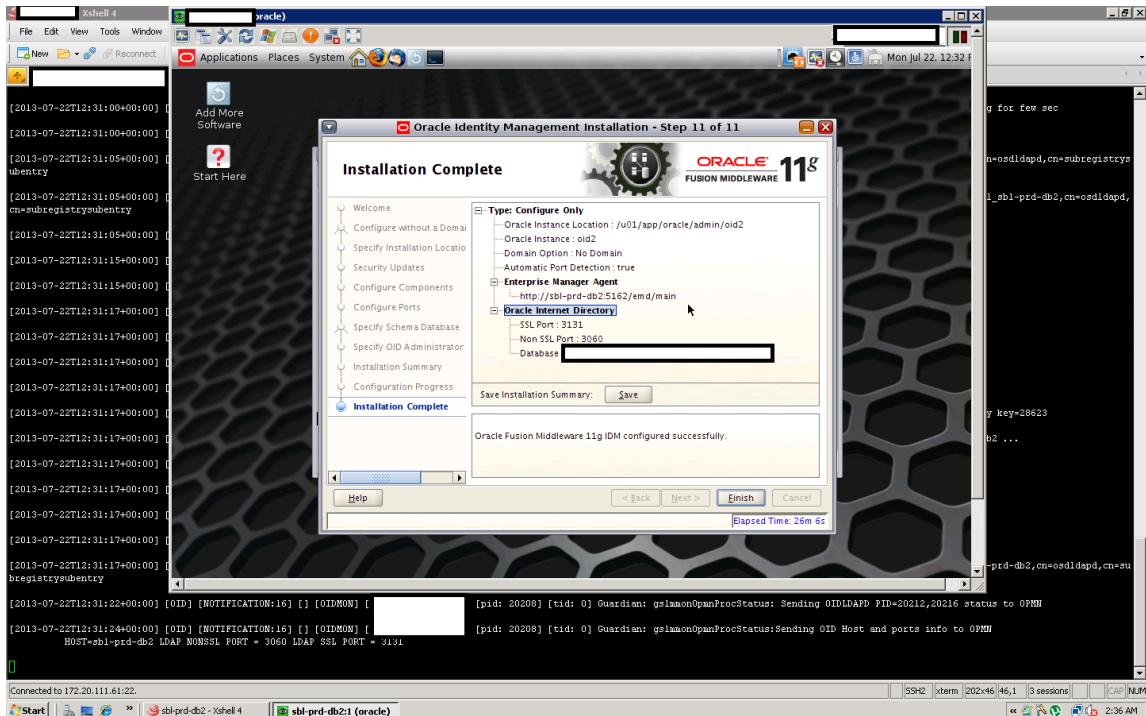
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Now you have installed Oracle web-logic and Oracle identity management, but what are the benefits for these two products

- You can check Weblogic Benefits from below
 - Benefits of Oracle WebLogic [Here](#).
 - Introduction to WebLogic Platform [Here](#)
- For Oracle identity Management
 - Benefits and features for oracle identity Management [Here](#).

Step by step to Install & configure oracle Fusion Middle-ware

To Create Admin Server

[You can skip this step], in this step I will configure Virtual IP on Services RAC and configure AdminServer for this IP:

```
appvipcfg create -network=1 -ip=172.16.16.203 -vipname=sieb_gtwy_vip -user=root -group=oinstall  
crsctl status resource sieb_gtwy_vip  
crsctl setperm resource sieb_gtwy_vip -u user:oracle:r-x  
crsctl status resource sieb_gtwy_vip -p  
crsctl start resource sieb_gtwy_vip
```

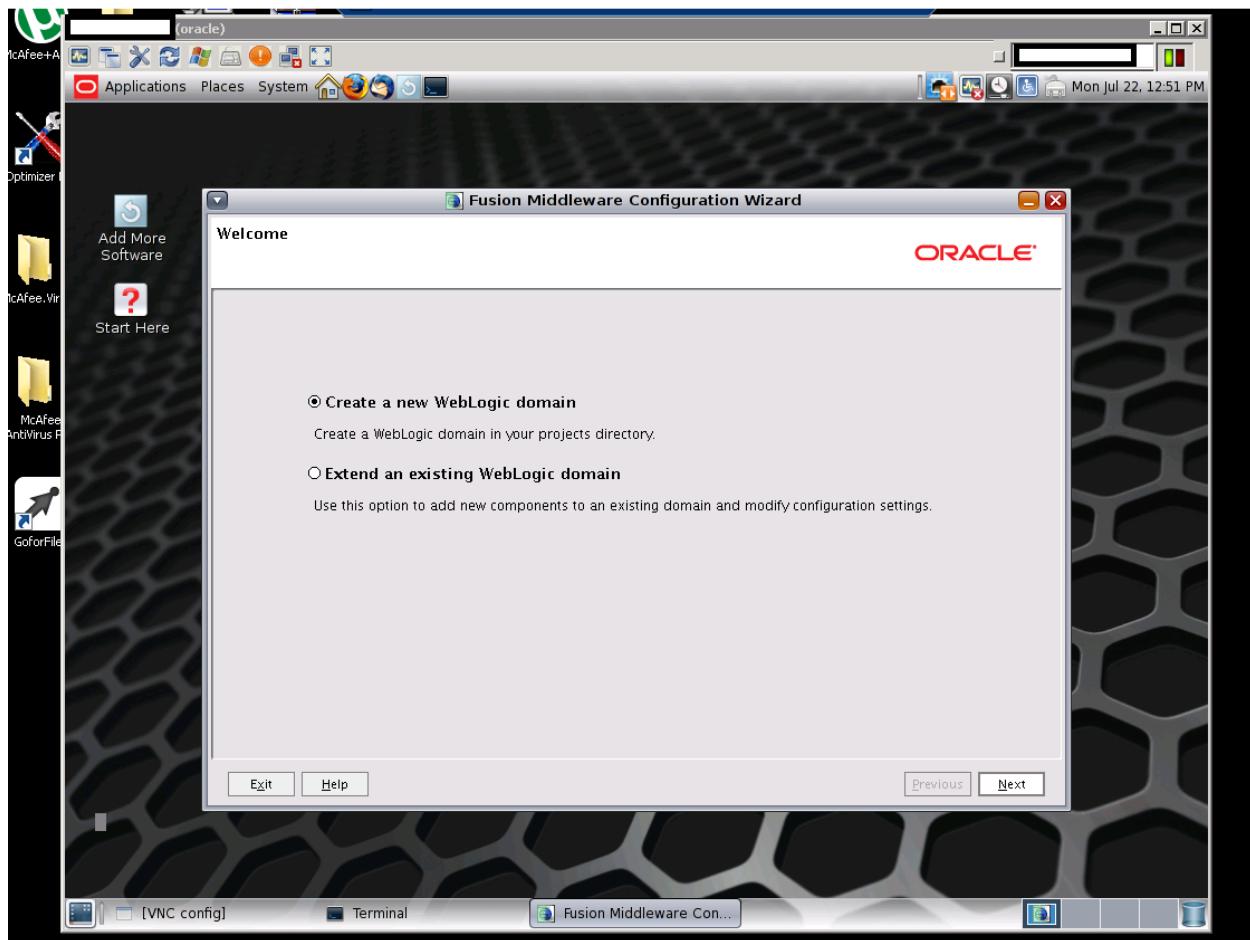
Note: All the Steps Documented in oracle Document [Here](#)

Check crs_stat -t:

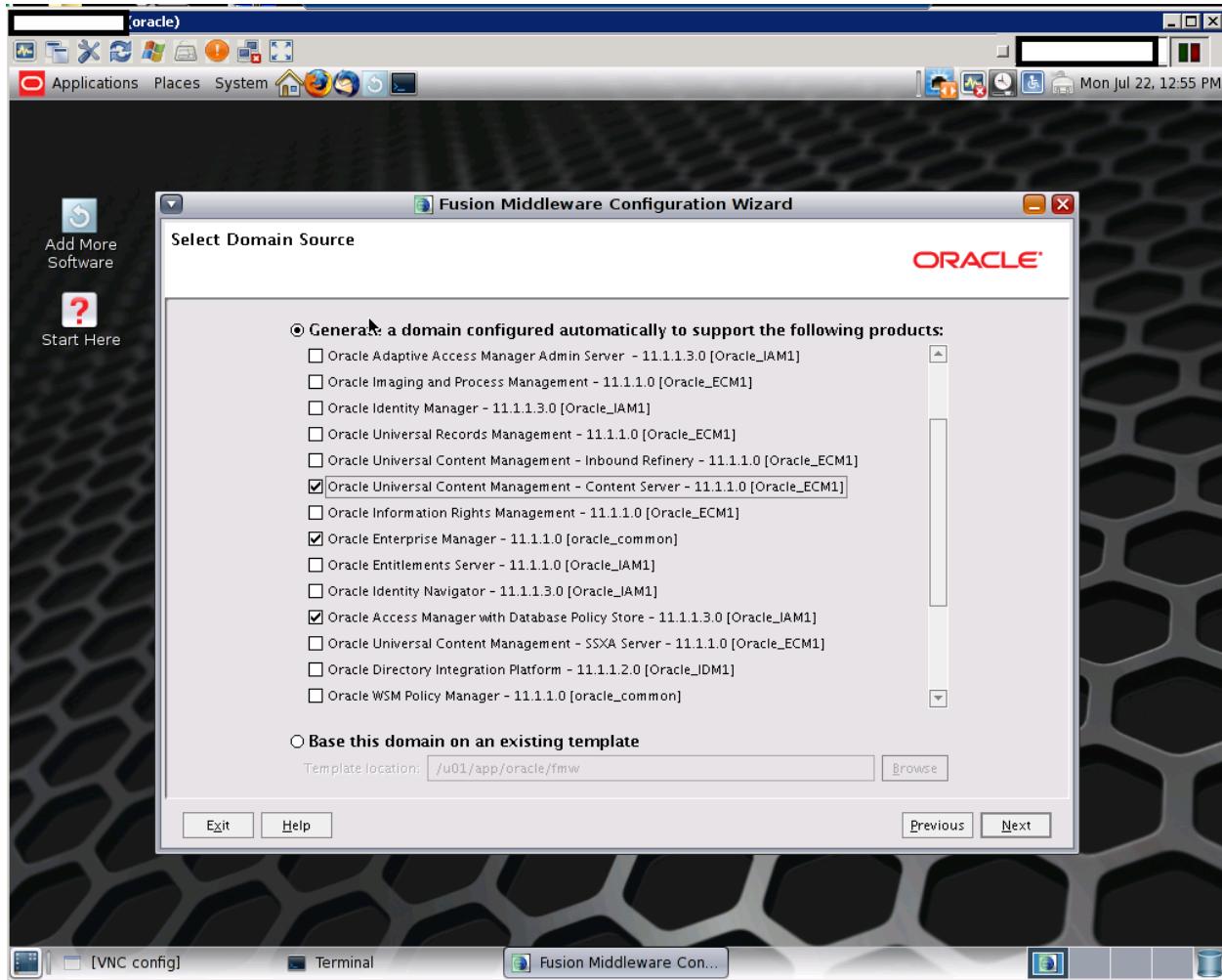
```
sieb_gtwy_vip app....t1.type ONLINE  ONLINE  sbl-test-db1
```

- Change Directory for example to cd /u01/app/oracle/fmw/Oracle_IAM1/common/bin
- Run ./config.sh
- New Screen Will be Open , Check the Below :

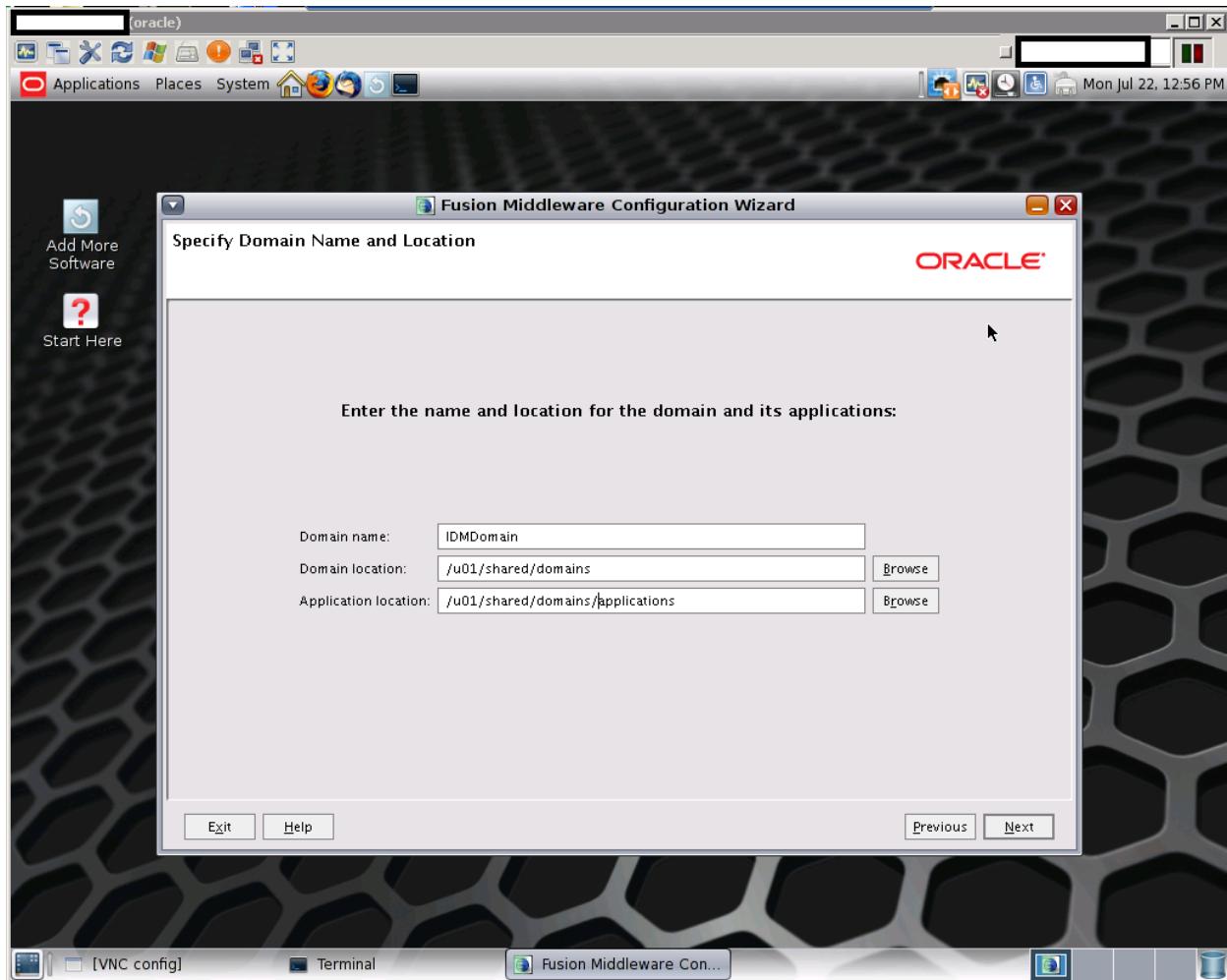
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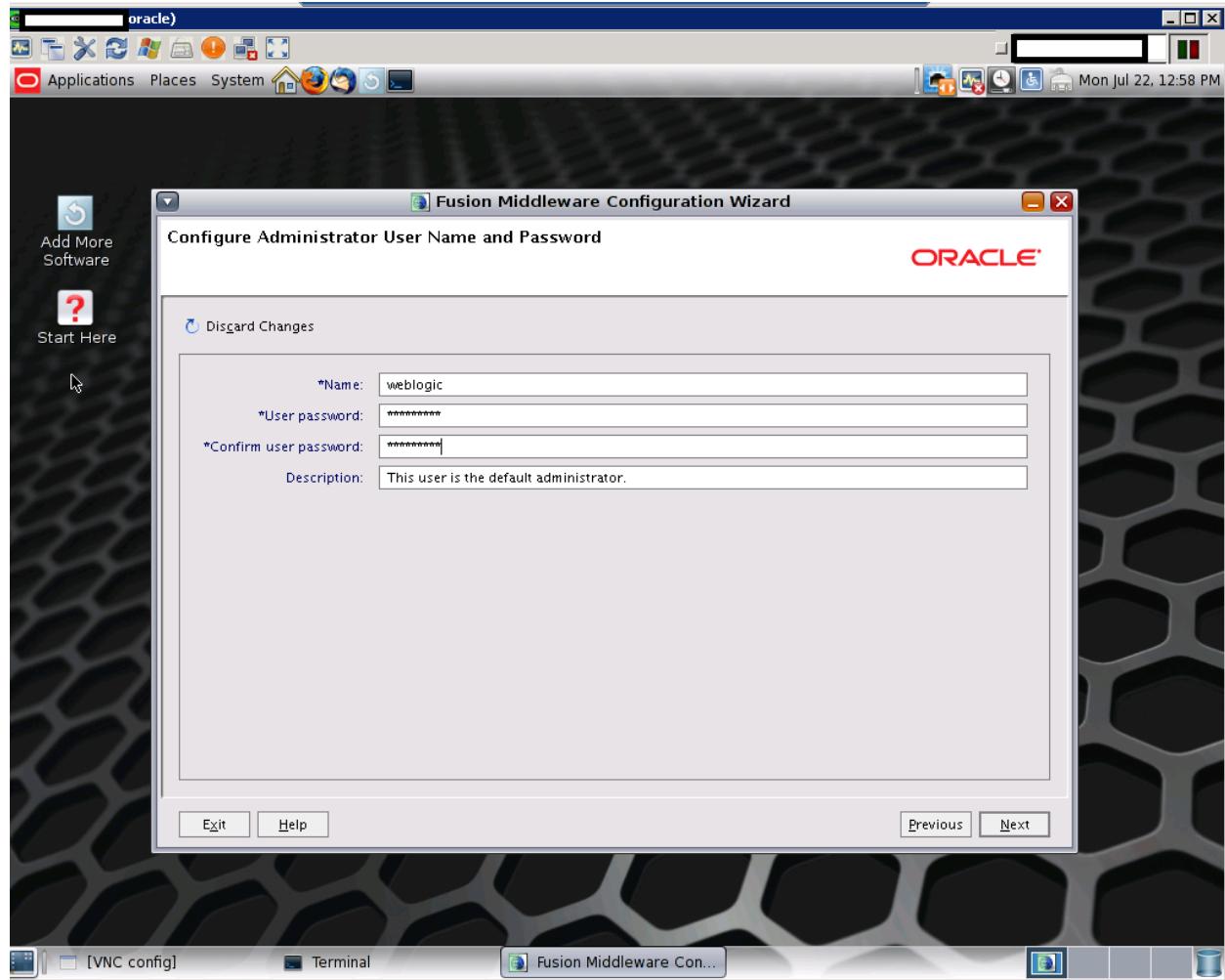
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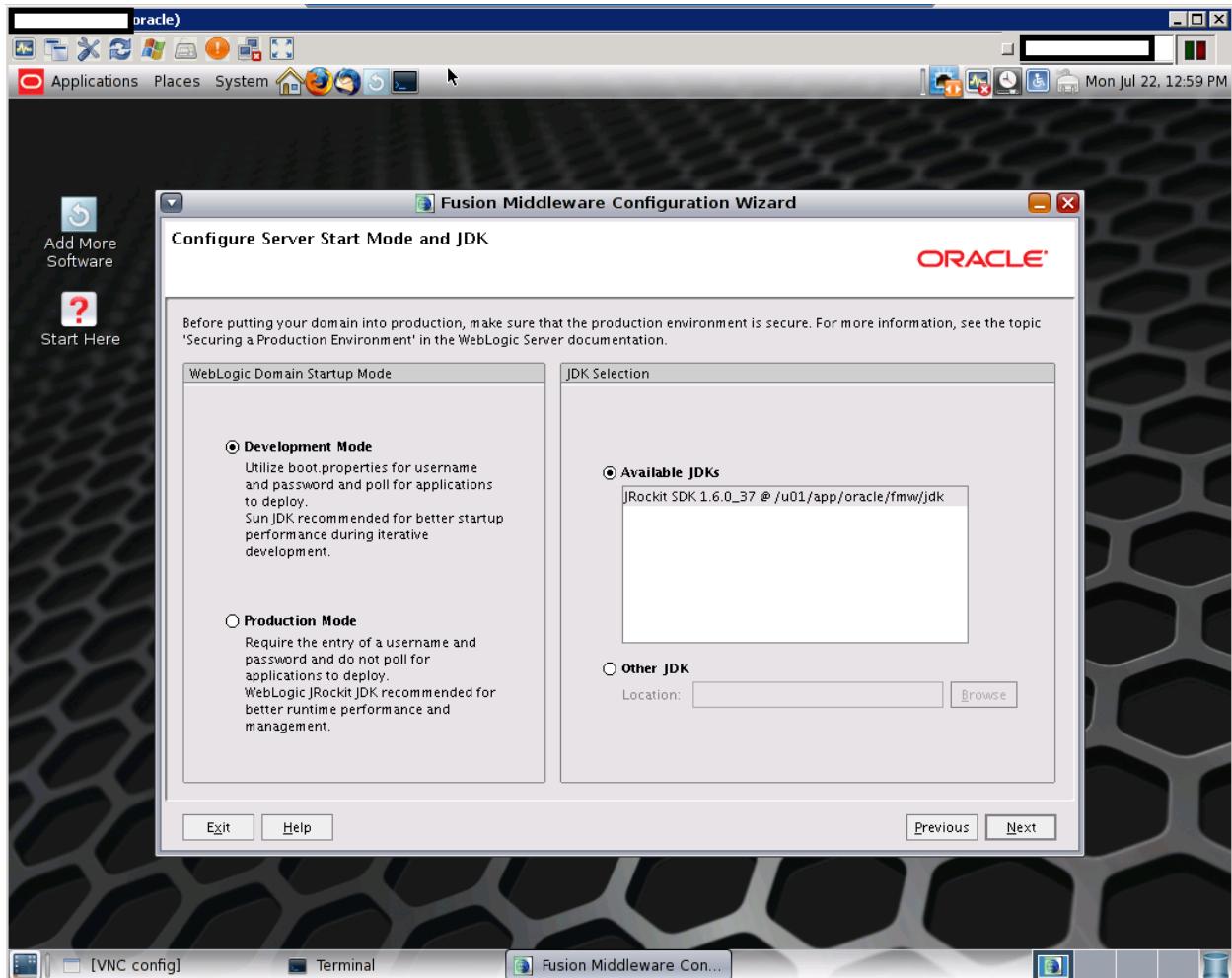
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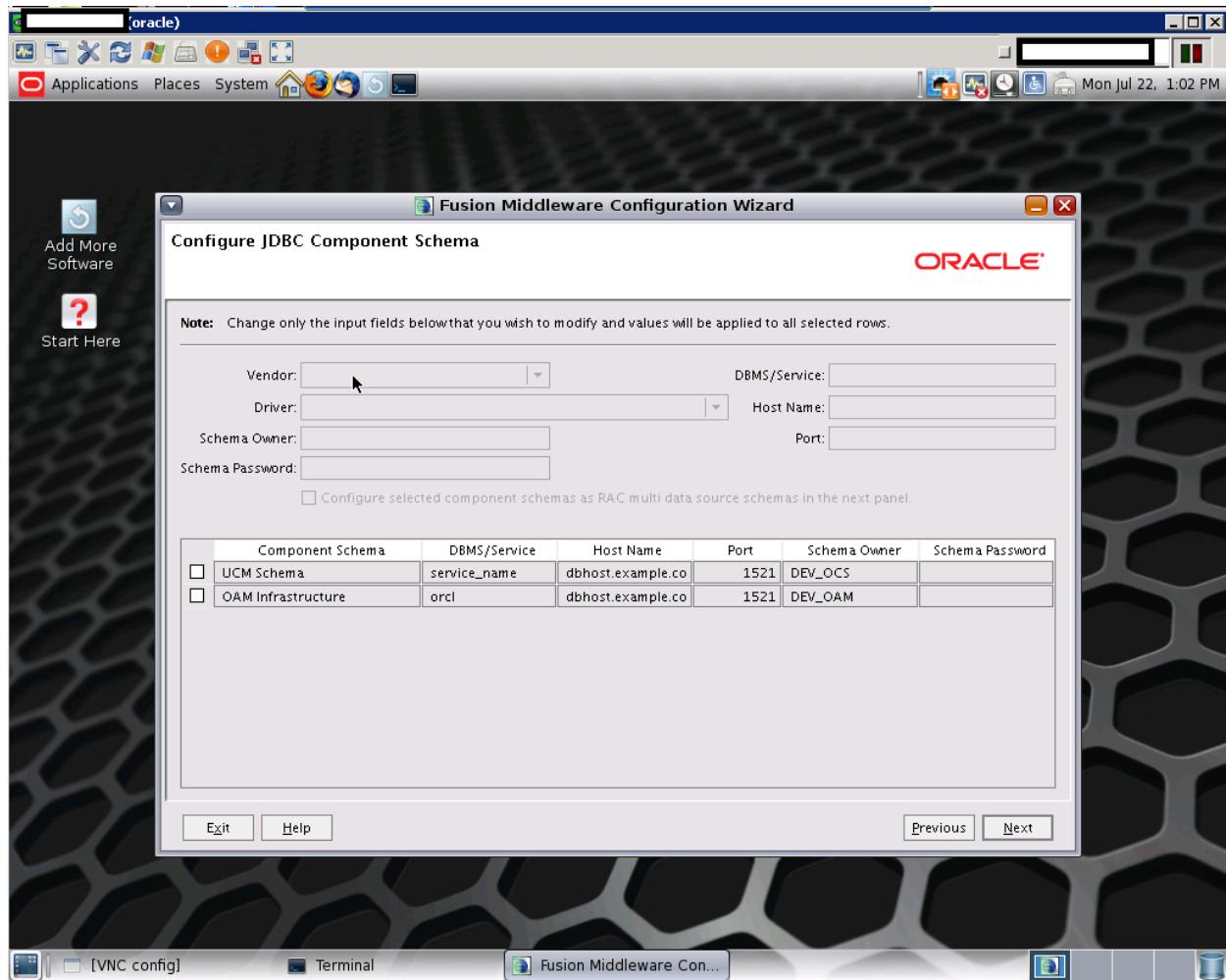
Step by step to Install & configure oracle Fusion Middle-ware



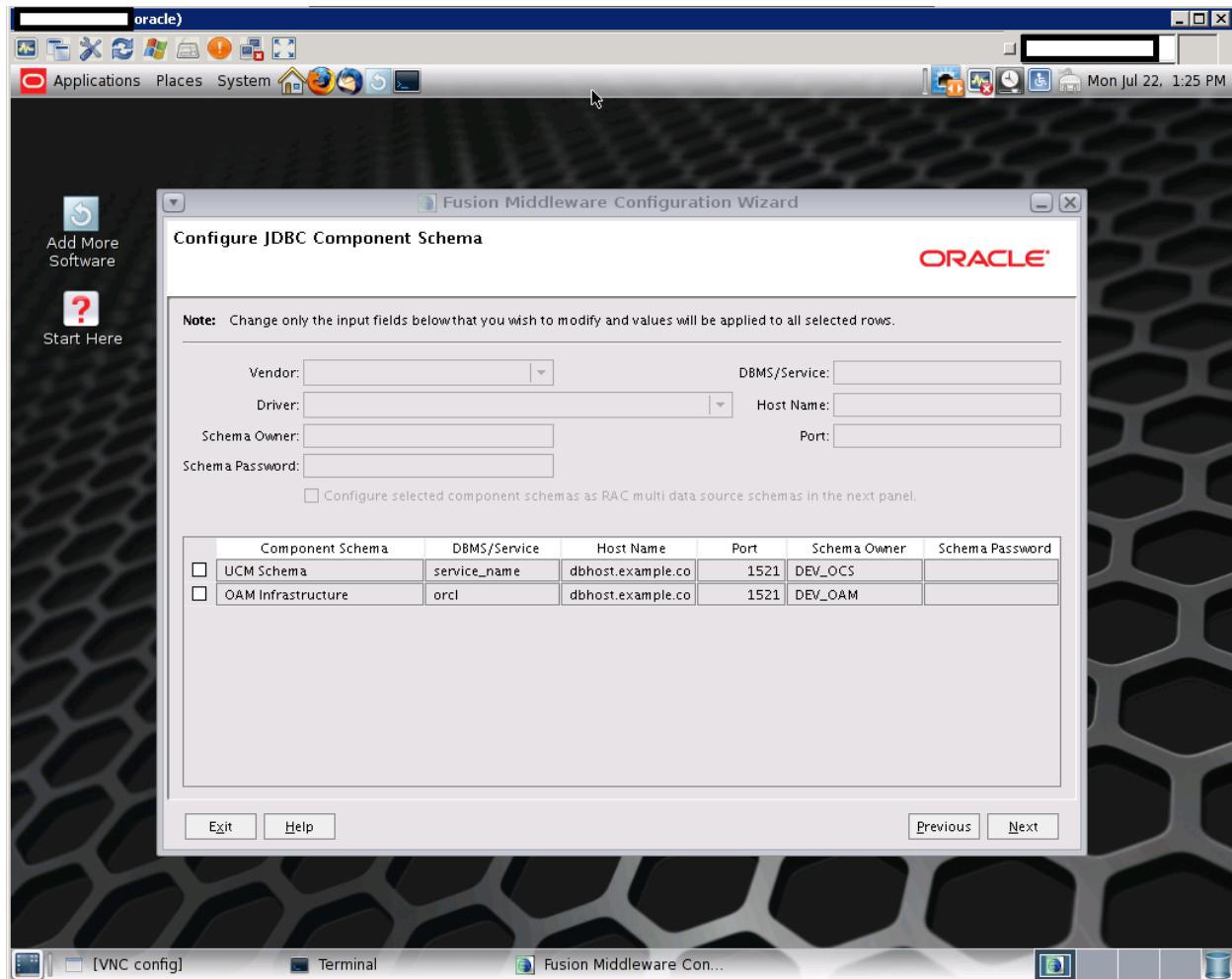
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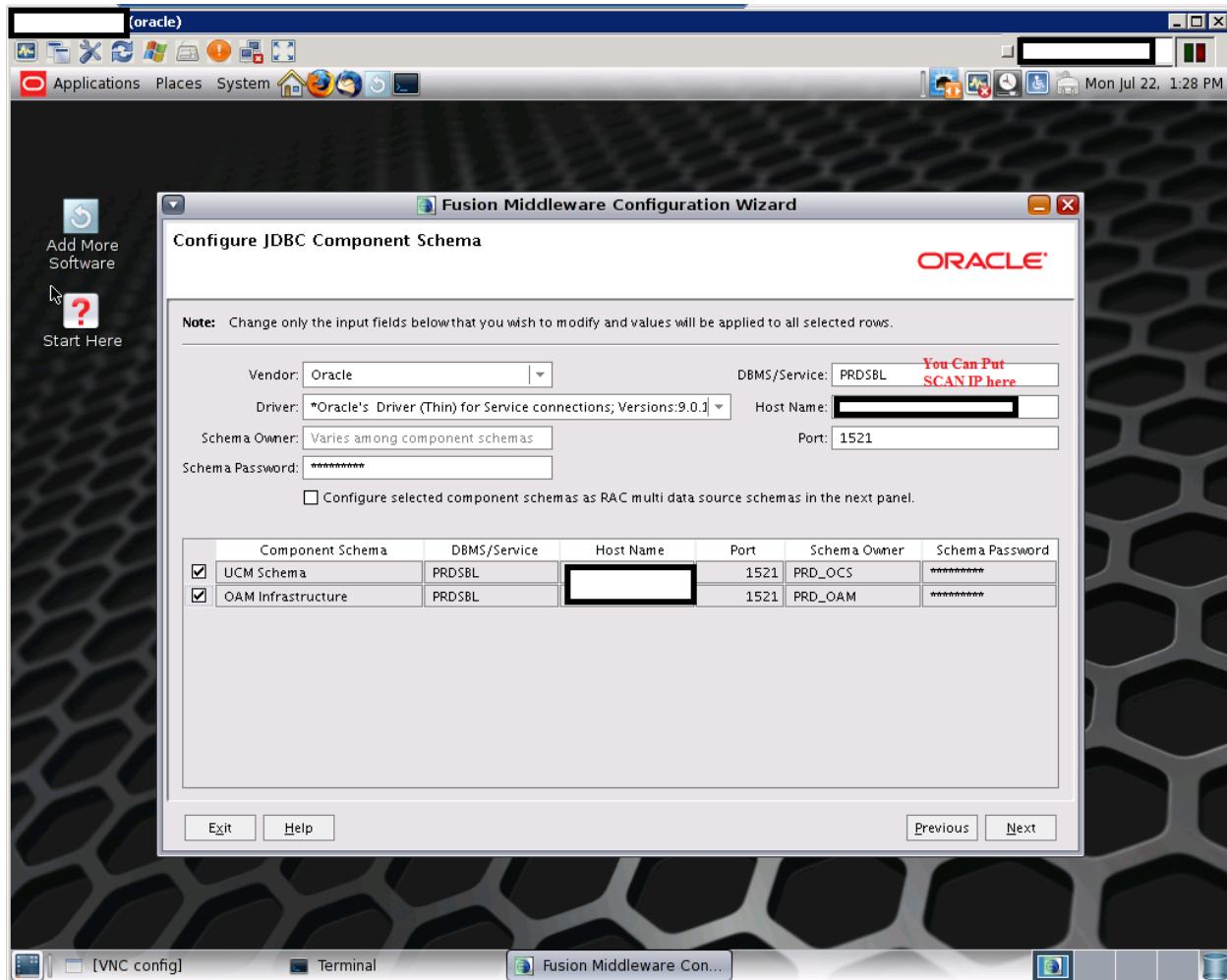
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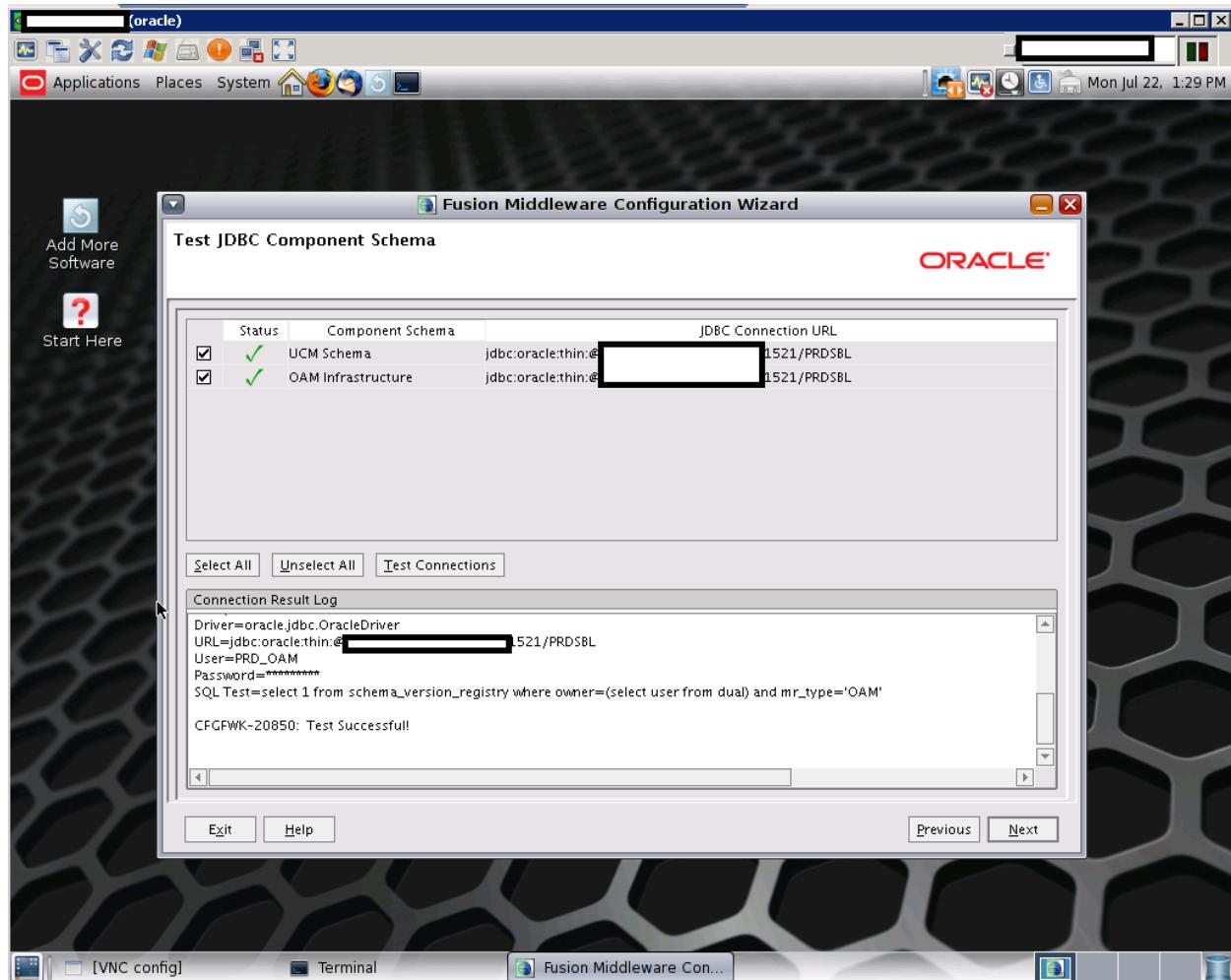
Step by step to Install & configure oracle Fusion Middle-ware



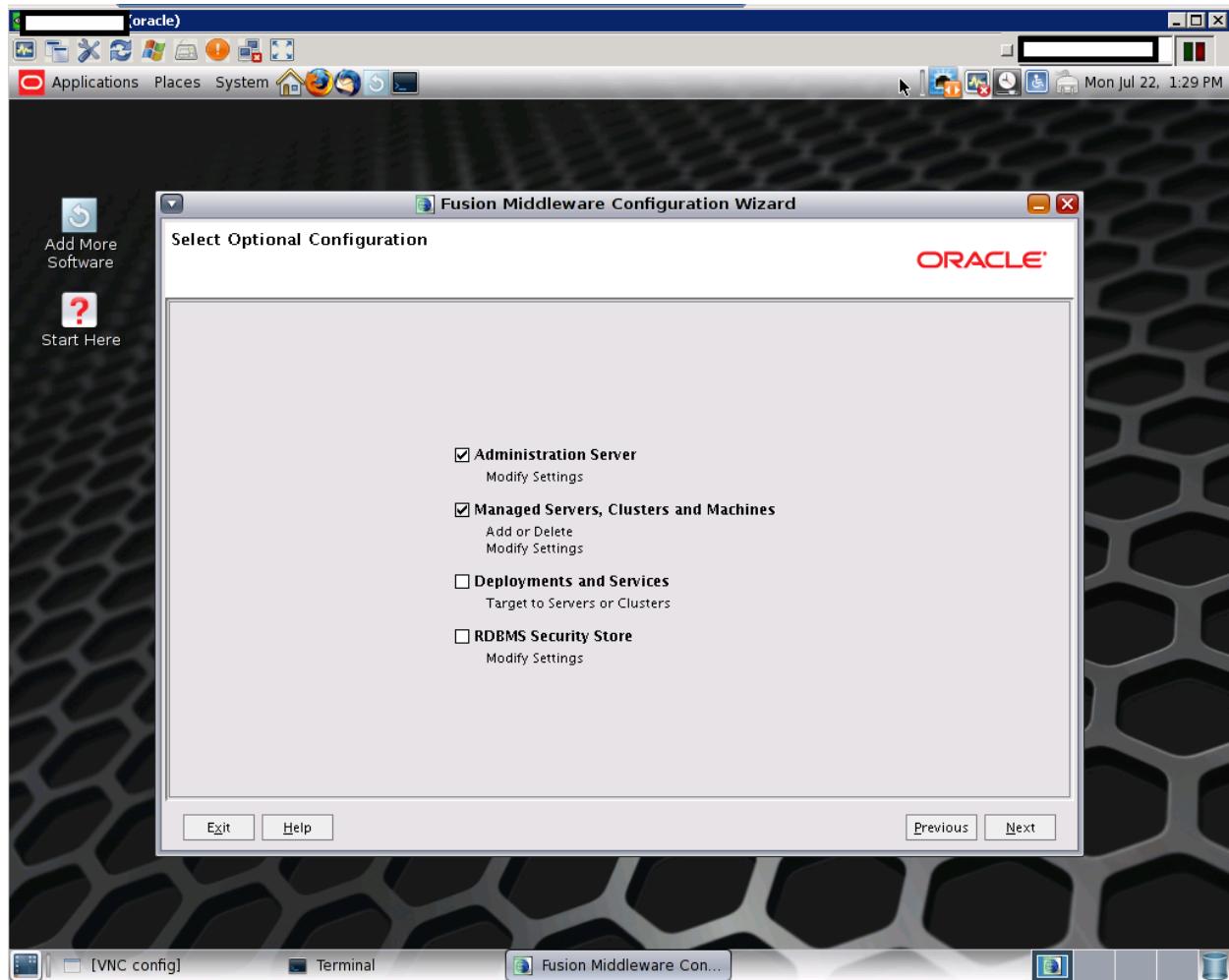
Step by step to Install & configure oracle Fusion Middle-ware



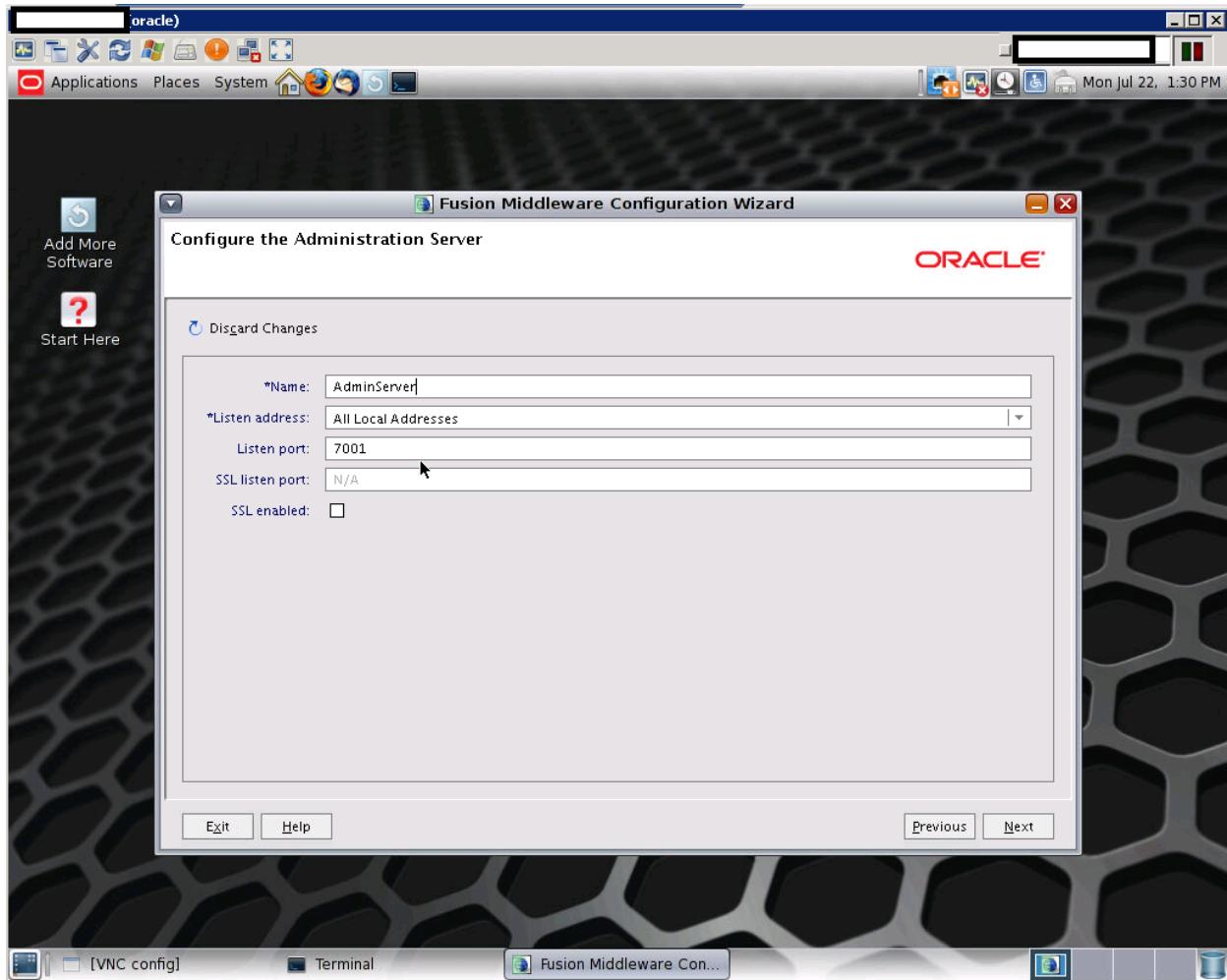
Step by step to Install & configure oracle Fusion Middle-ware



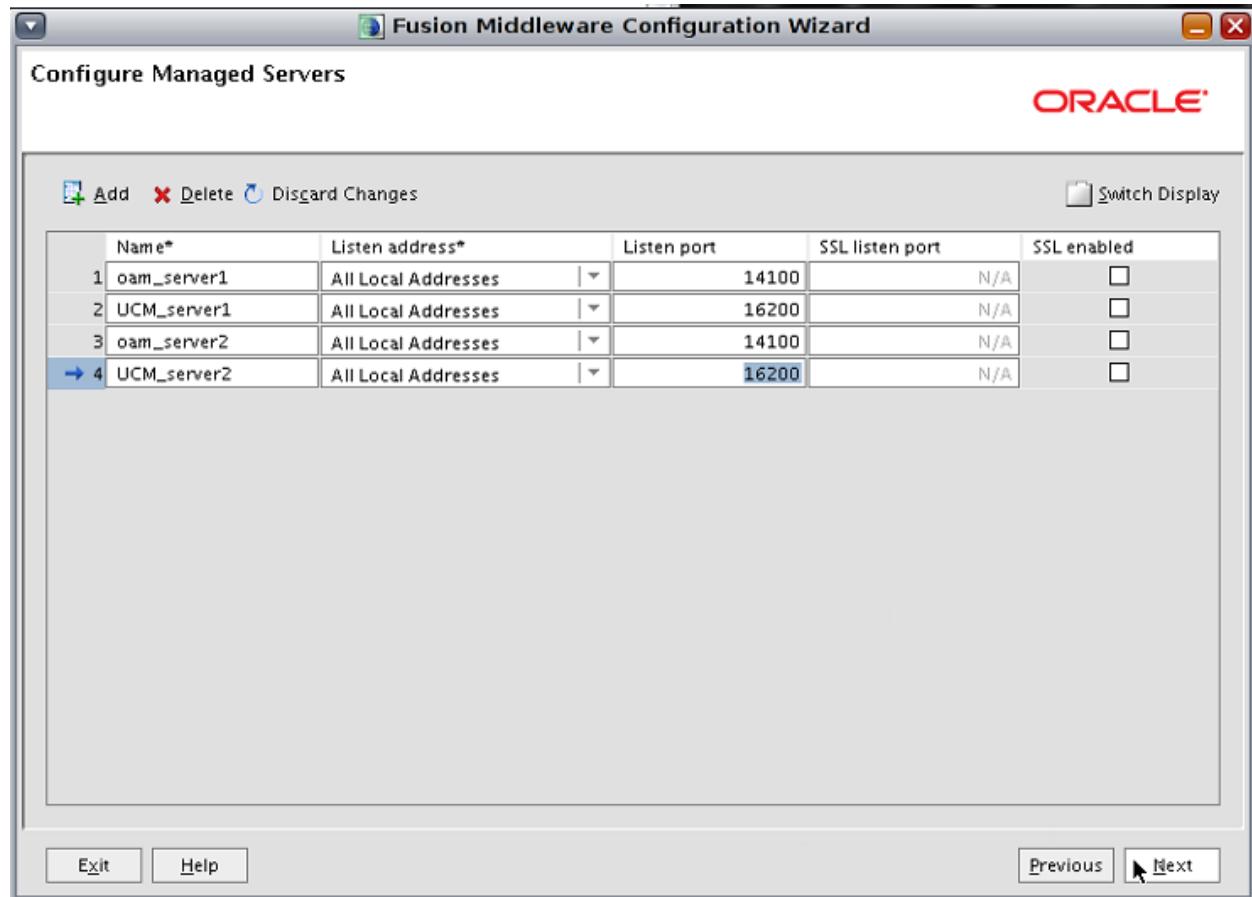
Step by step to Install & configure oracle Fusion Middle-ware



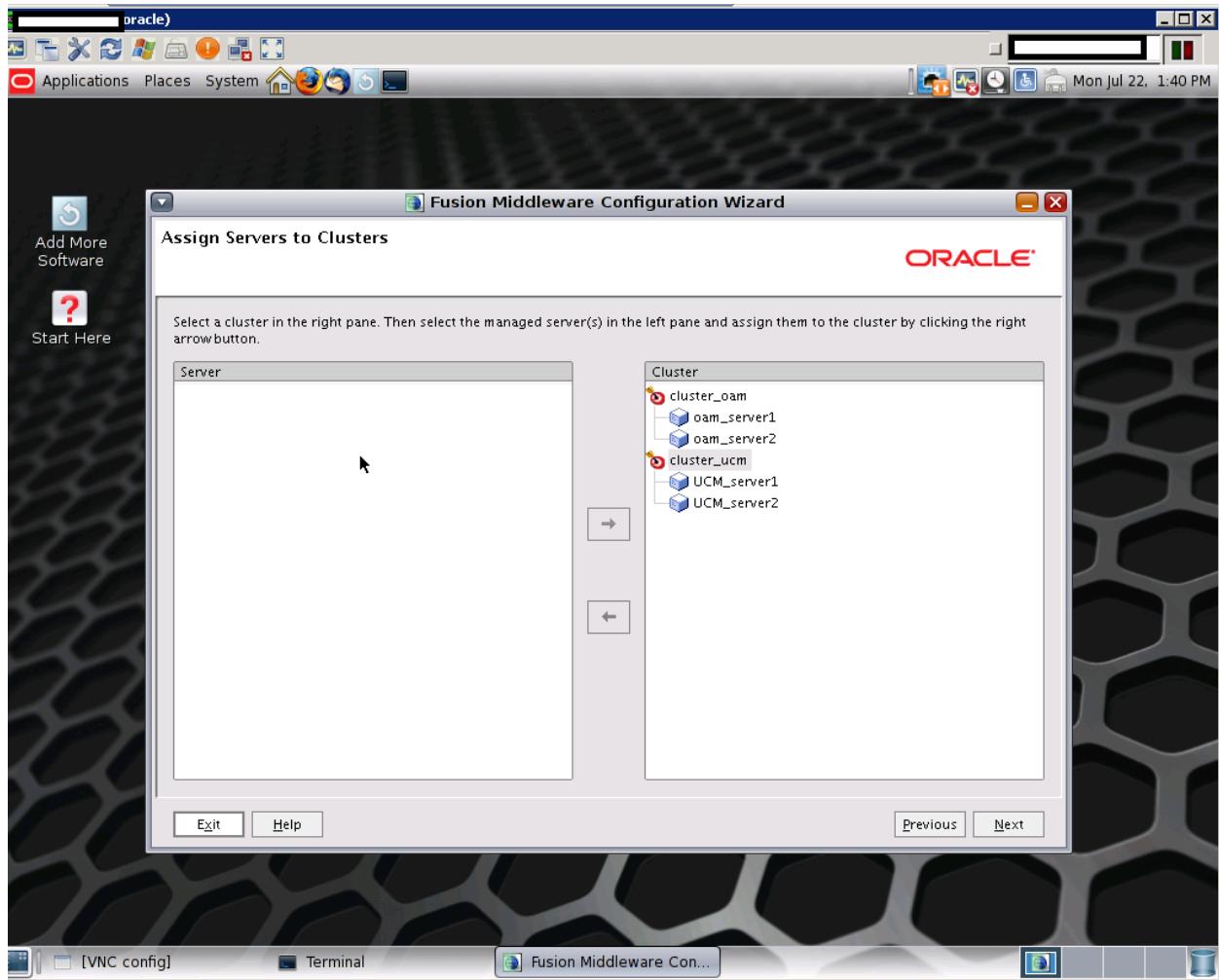
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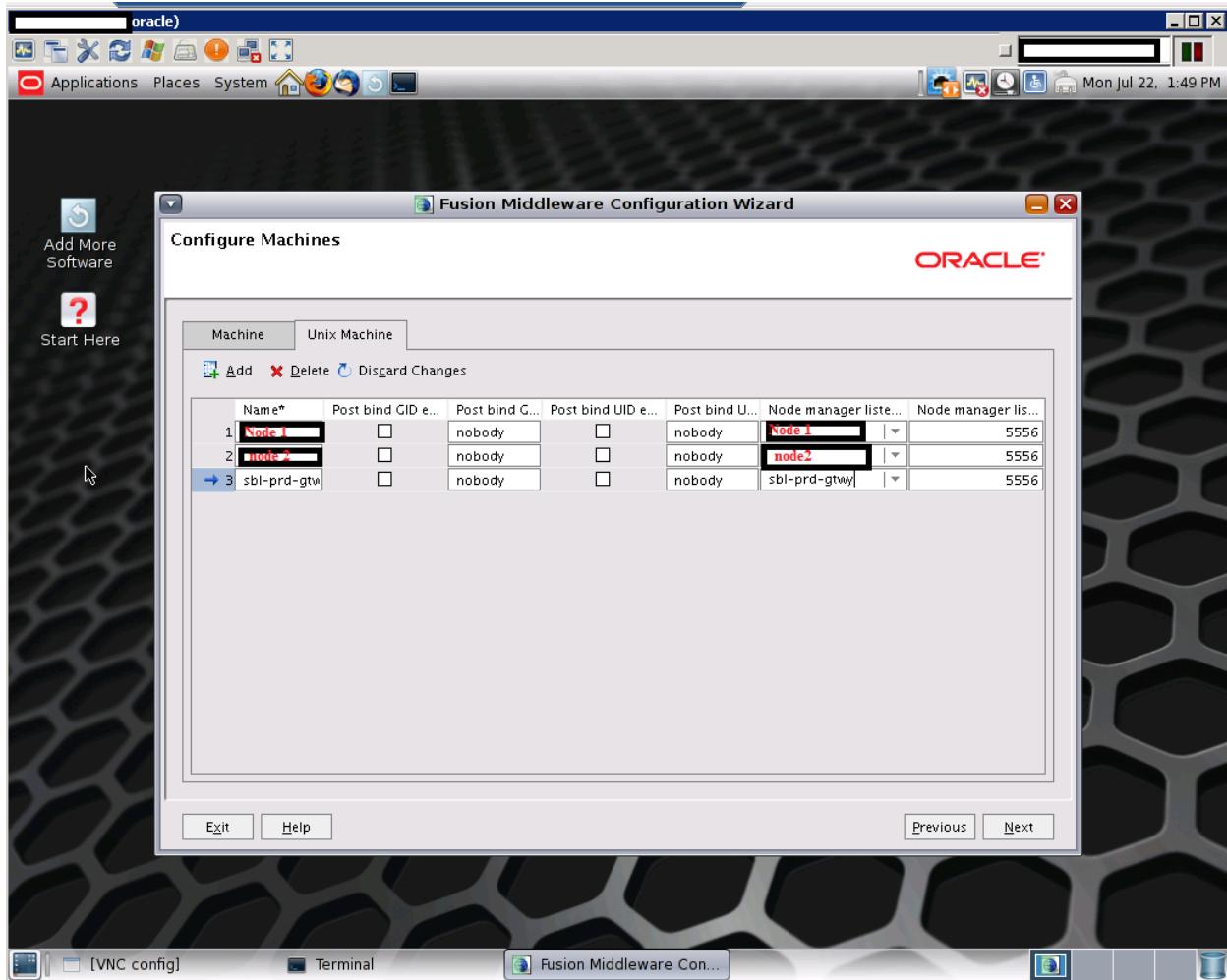
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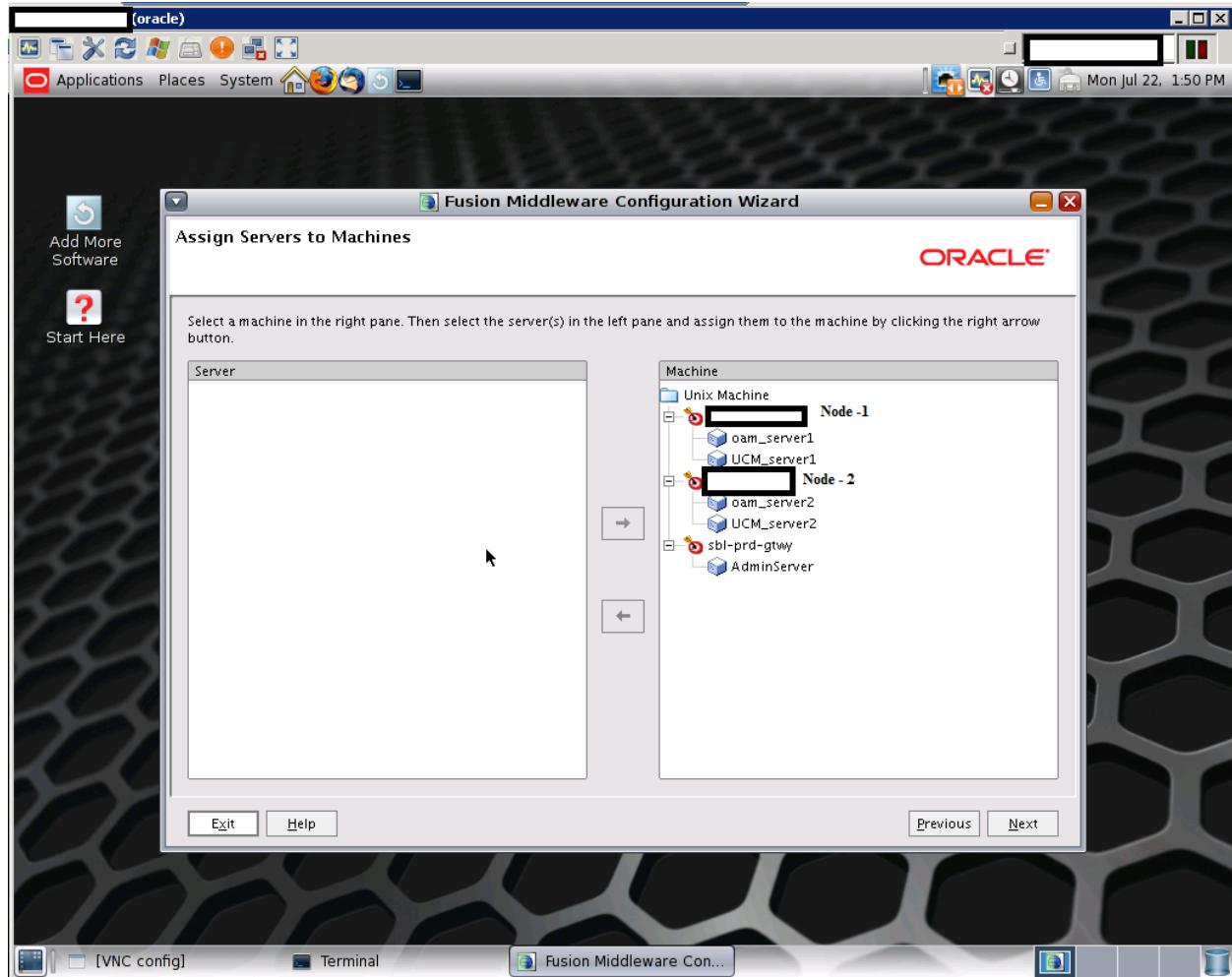
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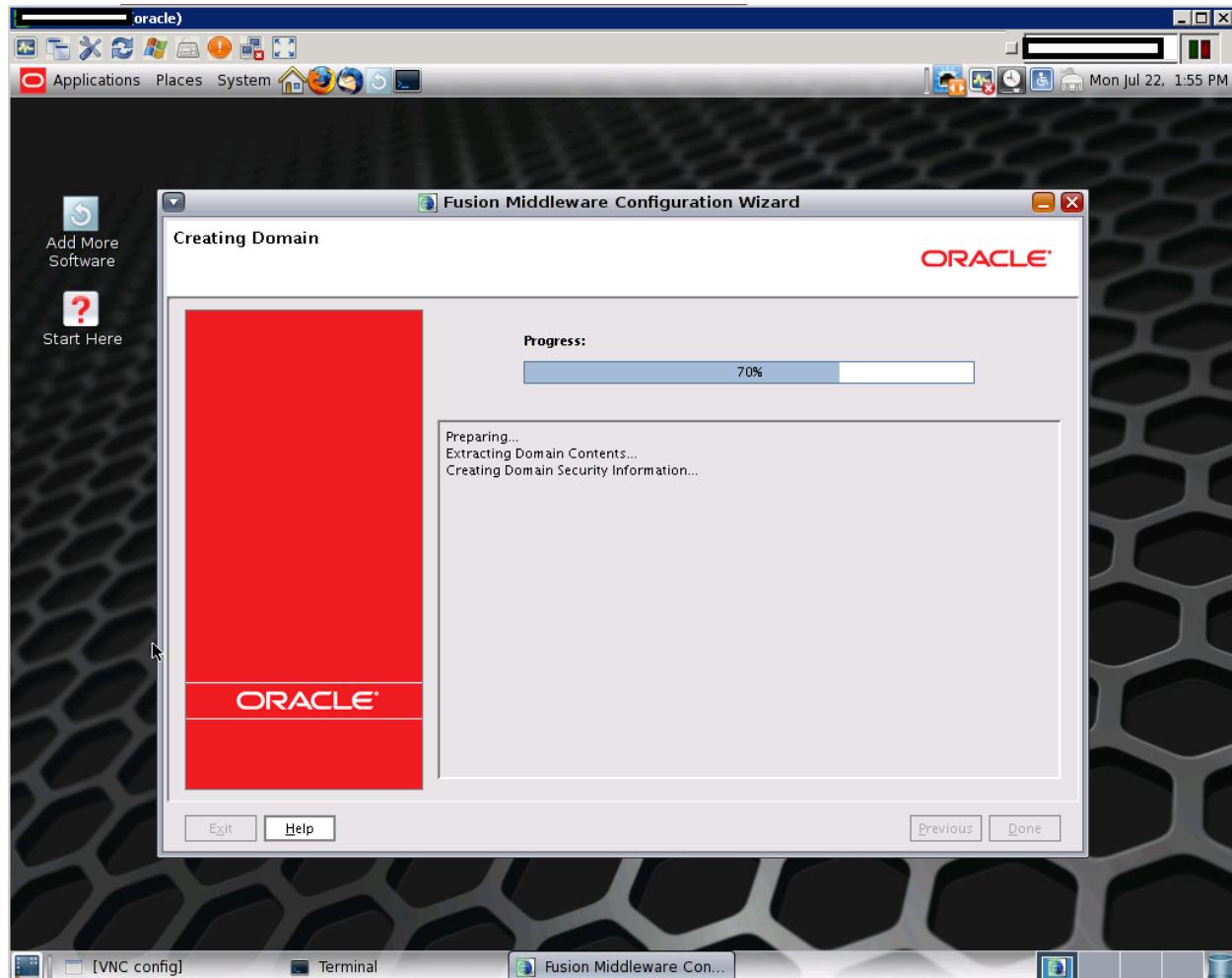
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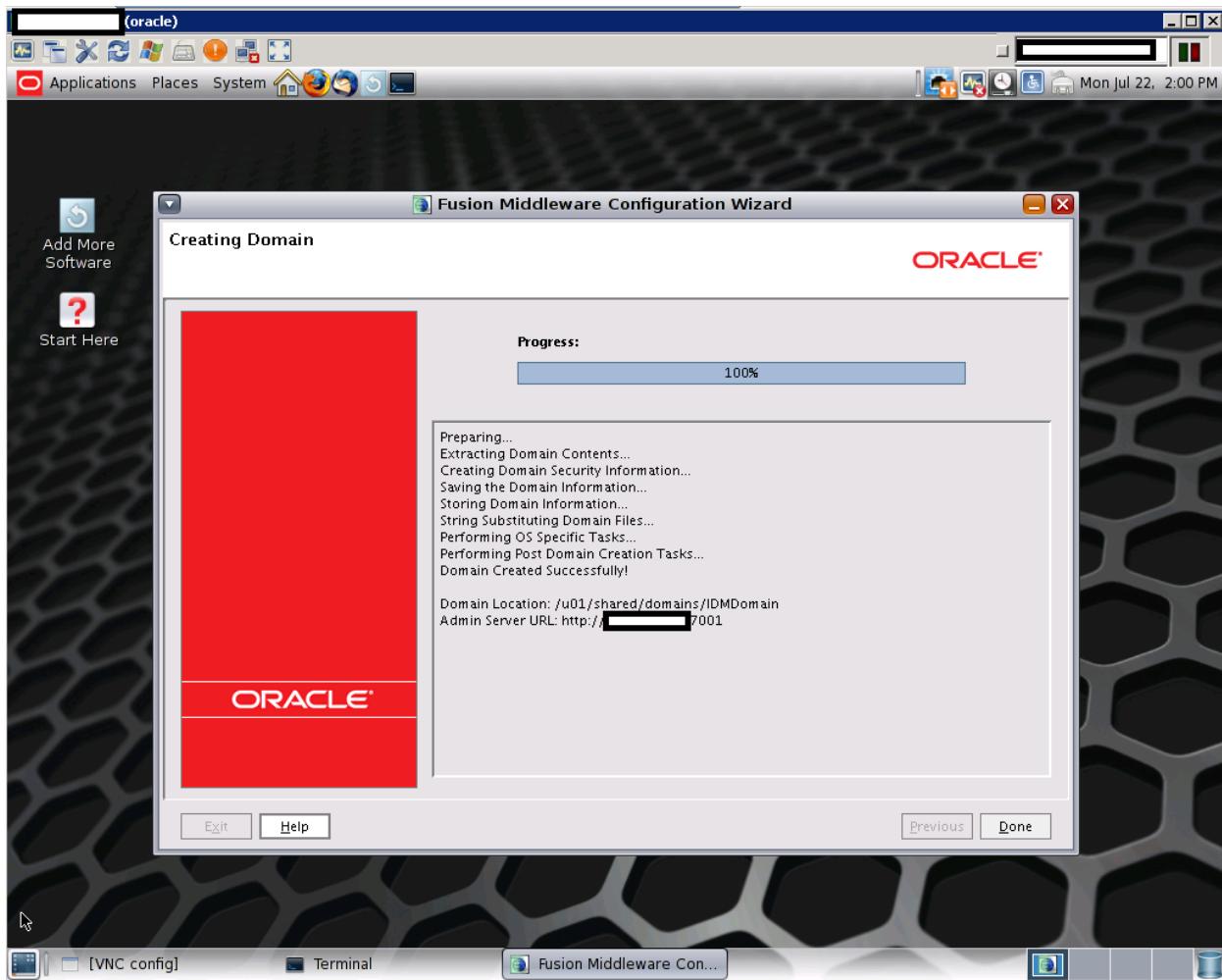
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Now we have AdminServer Configured on Shared Area (in my case Shared area in Solaris QFS), But we didn't finish our work yet. To make sure AdminServer and managed Server is Working fine without any problem and because I choose to configure managed server as Cluster and I need to Pack AdminServer from Shared Area to Local Area On each Node with below Steps:

Note: To start Admin Server you need to Run StartWeblogic.sh from /u01/shared.

- First you need to Pack Domain :
 - Cd /u01/app/oracle/fmw/oracle_common/common/bin
 - Run the Pack Command :
 - ./pack.sh –domain /u01/shared/domains/IDMDomains –template=/u01/shared/IDMDomain.Jar
 - Template_name="IDMDomain"
 - Managed=true

(Managed = true Means AdminServer will not be Pack only ManagedServer, False With AdminServer)

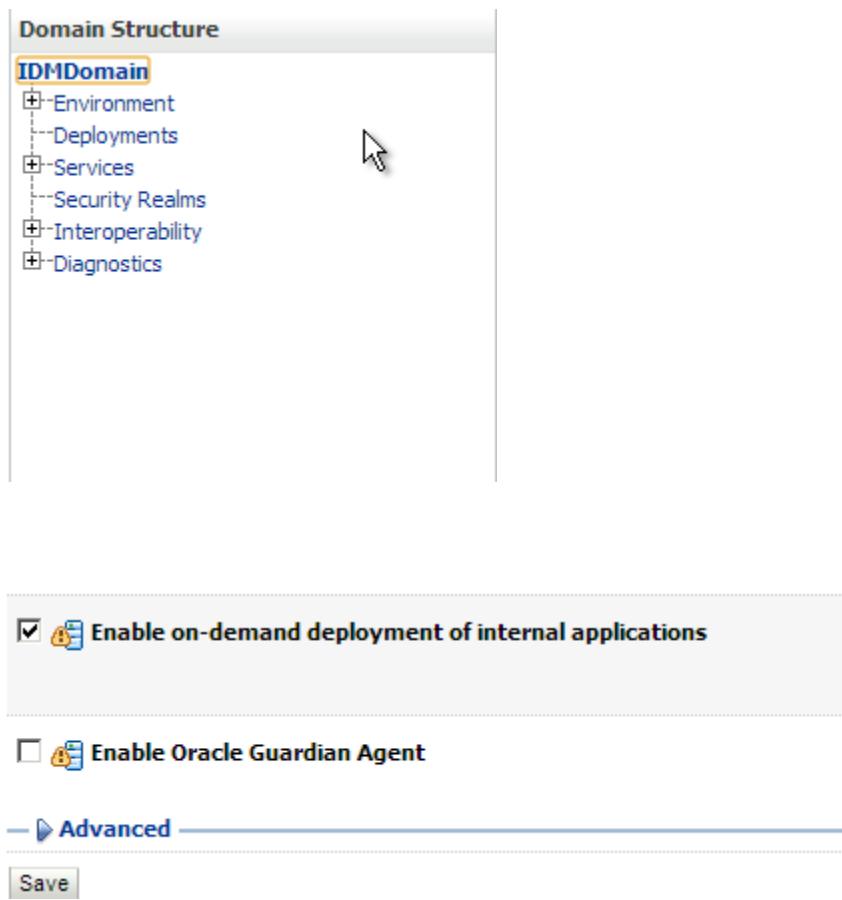
Step by step to Install & configure oracle Fusion Middle-ware

Note: Every Step should be repeated On Each Node in your Cluster. If you have two nodes repeat these steps on node 2.

- Now I need to Unpack he Template that generated from the above command on each node:
 - Cd /u01/app/oracle/fmw/oracle_common/common/bin
 - ./unpack.sh –template=/u01/shared/IDMDomain.jar
–domain=/u01/app/oracle/domains/IDMDomain
-app_dir=/u01/app/oracle/domains/IDMDomains/applications

Now you can start Admin Server Without any problems, but you cannot start any Managed Server Yet. When you log in to AdminServer you need to do the below steps:

- On IDMDomains uncheck “**Enable On-demand Deployment of Internal application**”.



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- Services Tab → Security Realms → my realm → providers → Delete IAMSuiteAgent.

The screenshot shows two windows side-by-side. The top window is titled 'Domain Structure' and displays a tree view of the domain structure under 'IDMDomain'. The nodes shown are Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics. The 'Services' node is expanded. The bottom window is a table titled 'Providers' showing a list of providers. The columns are 'Name' and 'Description'. There are four rows: DefaultAuthenticator (WebLogic Authentication Provider), DefaultIdentityAssertioner (WebLogic Identity Assertion provider), and IAMSuiteAgent (Oracle Access Manager Servlet Authentication Filter and Identity Assertion Provider). The 'IAMSuiteAgent' row has a checked checkbox in the first column. Below the table are buttons for New, Delete, and Reorder. A cursor is hovering over the 'Delete' button.

	Name	Description
<input type="checkbox"/>	DefaultAuthenticator	WebLogic Authentication Provider
<input type="checkbox"/>	DefaultIdentityAssertioner	WebLogic Identity Assertion provider
<input checked="" type="checkbox"/>	IAMSuiteAgent	Oracle Access Manager Servlet Authentication Filter and Identity Assertion Provider

- In this Step, I will configure NodeManager which is Responsible for start/stop Managed Server .
 - Create new folder /u01/app/oracle/domain/Nodemanager
 - Copy /u01/app/oracle/fmw/wlserver_10.3/server/bin/startNodemanager to folder /u01/app/oracle/domain/Nodemanager
 - Modify Copy StartNodeManager .sh to indicate to new path.

```
WL_HOME="/u01/app/oracle/fmw/wlserver_10.3"
. "${WL_HOME}/common/bin/commEnv.sh"

NODEMGR_HOME="/u01/app/oracle/domains/NodeManager"
```

- Copy /u01/app/oracle/fmw/wlserver_10.3/common/nodemanager.domain to /u01/app/oracle/domain/Nodemanager
- Now you can start Node manager From the New Location.
- Modify Nodemanager.properties startScriptEnabled=False to True.

Remember you have to repeat these steps on node 2.

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On Admin Server Console <http://localhost:7001/console> we need to add providers for OID.

The screenshot shows the 'Domain Structure' page in the Oracle Admin Server. The 'Deployments' node under 'IDMDomain' is highlighted with a blue oval and has a blue arrow pointing to a callout box. The callout box contains the text: 'Press Install and follow the below screens'.

Install Application Assistant

Back | Next | Finish | Cancel

Locate deployment to install and prepare for deployment

Select the file path that represents the application root directory, archive file, exploded archive directory, or application module directory or file in the Path field.

Note: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm th

Path:	/u01
Recently Used Paths:	(none)
Current Location:	172.20.111.203 / u01

File tree view:
app
shared

Back | Next | Finish | Cancel

Path:	/u01/app/oracle/fmw/Oracle_IDM1/ldap/odsm/odsm.ear
Recently Used Paths:	(none)
Current Location:	172.20.111.203 / u01 / app / oracle / fmw / Oracle_IDM1 / ldap / odsm

Deployment selection:
 odsm-install.jar
 odsm.ear

Back | Next | Finish | Cancel

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Back | Next | Finish | Cancel

Choose targeting style

Targets are the servers, clusters, and virtual hosts on which this deployment will run.

Install this deployment as an application

The application and its components will be targeted to the same locations.

Install this deployment as a library

Application libraries are deployments that are available for other deployments.

Install this deployment as an application, but target the components separately

Useful when one or more of the modules or components must have targets.

Back | Next |  Finish | Cancel

Install Application Assistant

Back | Next | Finish | Cancel

Select deployment targets

Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later).

Available targets for odsm :

Servers
<input checked="" type="checkbox"/> AdminServer

Clusters
<input type="checkbox"/> cluster_oam <ul style="list-style-type: none"><input type="radio"/> All servers in the cluster<input type="radio"/> Part of the cluster<ul style="list-style-type: none"><input type="checkbox"/> oam_server1<input type="checkbox"/> oam_server2
<input type="checkbox"/> cluster_ucm <ul style="list-style-type: none"><input type="radio"/> All servers in the cluster<input type="radio"/> Part of the cluster<ul style="list-style-type: none"><input type="checkbox"/> UCM_server1<input type="checkbox"/> UCM_server2

Back |  Next | Finish | Cancel

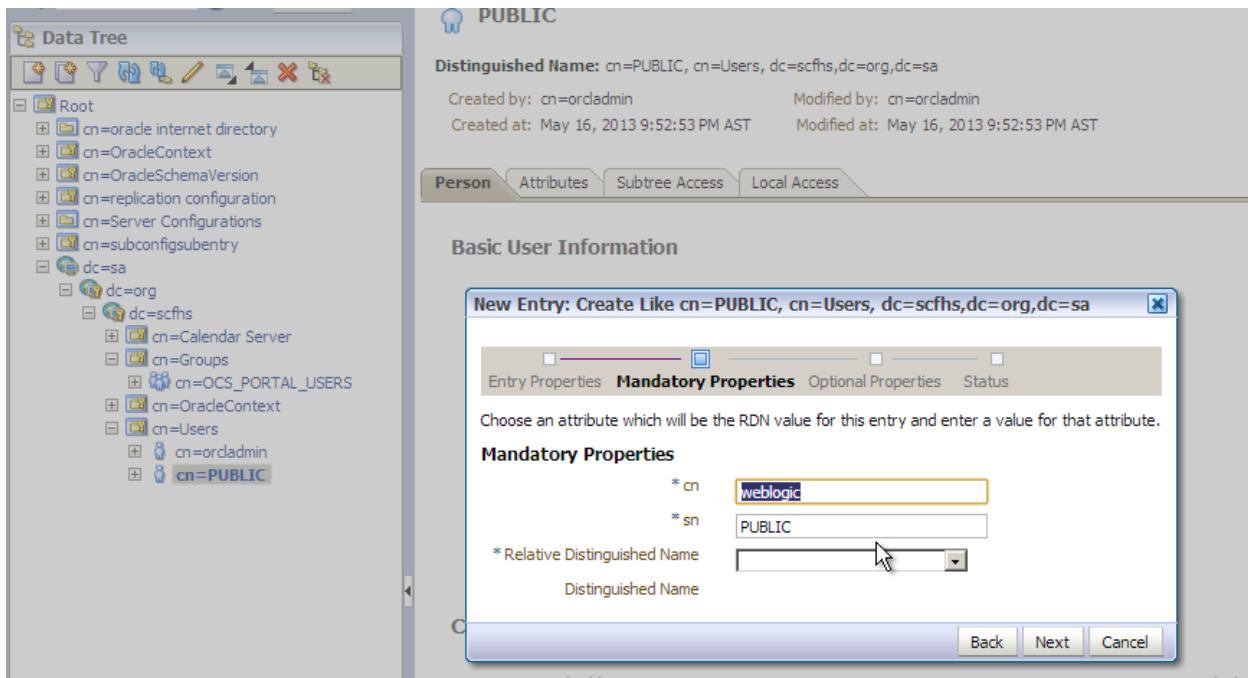
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Then Press next → Finish without change anything wait about 2-5 minutes until deploy is finished.

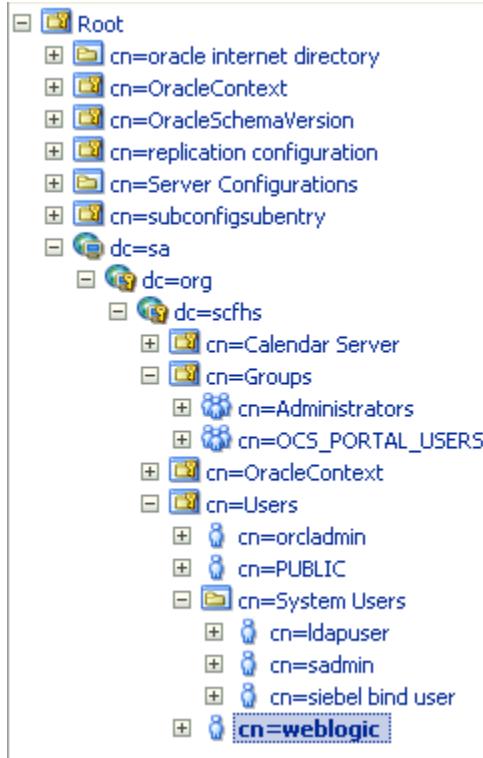
Restart AdminServer from Servers → Control and Shutdown. Then Re-run startWebLogic .sh Again

Everything works fine, Now I have to Work on odsm , <http://localhost:7001/odsm> , to configure SSO users.

- Create weblogic User on OID.



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- Create group “Administrators”, Add Weblogic and orcladmin inside this group.

Group

Attributes Subtree Access Local Access

Display Name:

Owner:

Description:

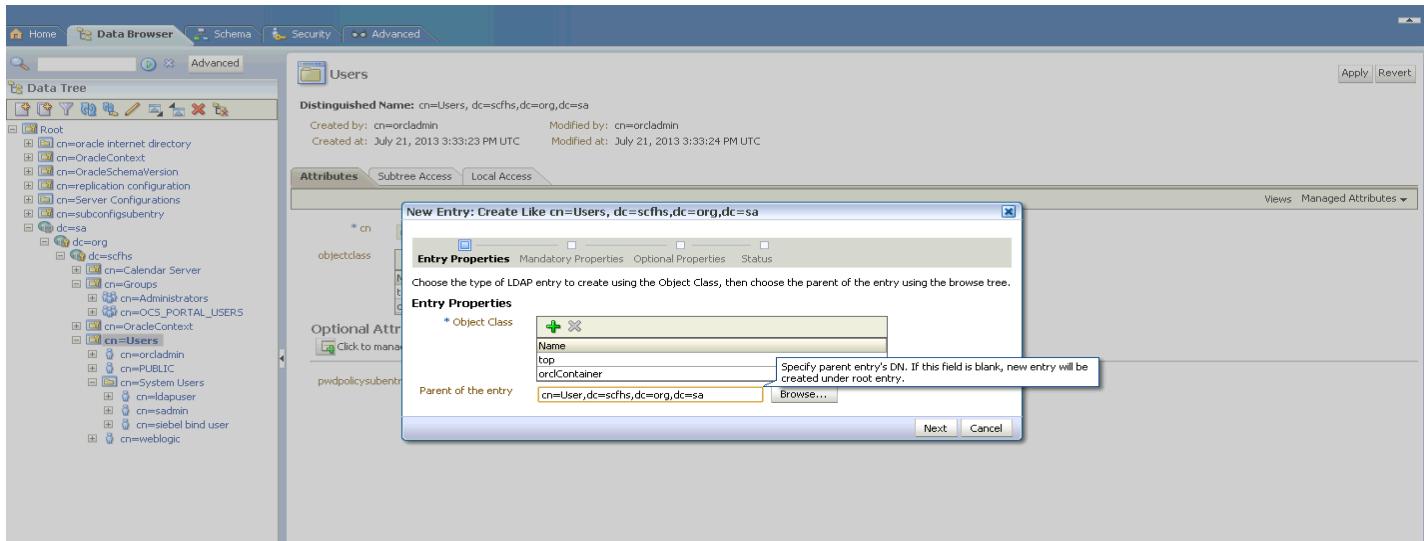
Members:

Member Name:

- cn=weblogic, cn=Users, dc=scfhs, dc=org, dc=sa
- cn=orcladmin, cn=Users, dc=scfhs, dc=org, dc=sa

Step by step to Install & configure oracle Fusion Middle-ware

- [OPTIONAL] in this steps I will create Siebel users for SSO, you can skip this step if you don't have to install Siebel Application.



System Container should contain three users:

- Siebel bind user
- Sadmin
- Ldapusers

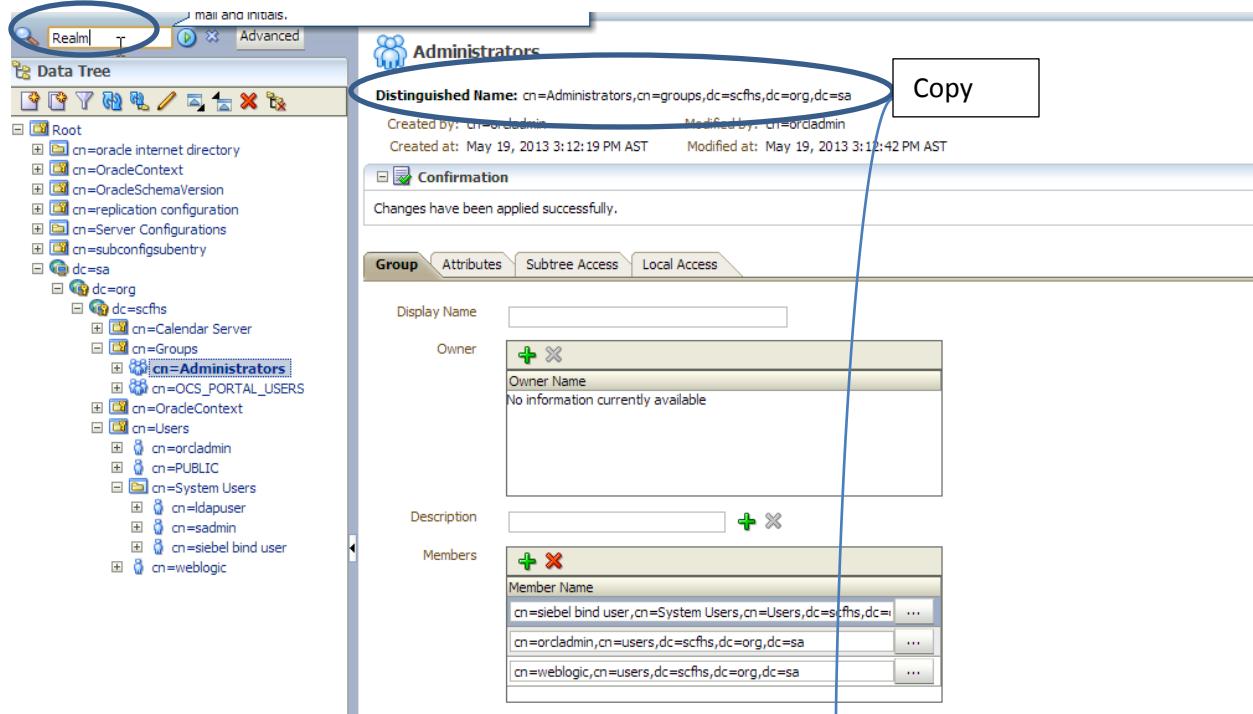
Siebel Bind user should be adding to administrator Group.

The screenshot shows the Oracle Data Browser interface. On the left, the LDAP tree shows the 'Groups' node expanded, with 'cn=Administrators' highlighted. On the right, the 'Group' tab is selected for the 'cn=Administrators' entry. The 'Members' section is shown with three entries: 'cn=siebel bind user,cn=System Users,cn=Users,dc=scfhs,dc=sa', 'cn=orcladmin,cn=users,dc=scfhs,dc=org,dc=sa', and 'cn=weblogic,cn=users,dc=scfhs,dc=org,dc=sa'. The entry 'cn=siebel bind user,cn=System Users,cn=Users,dc=scfhs,dc=sa' is circled with a blue oval.

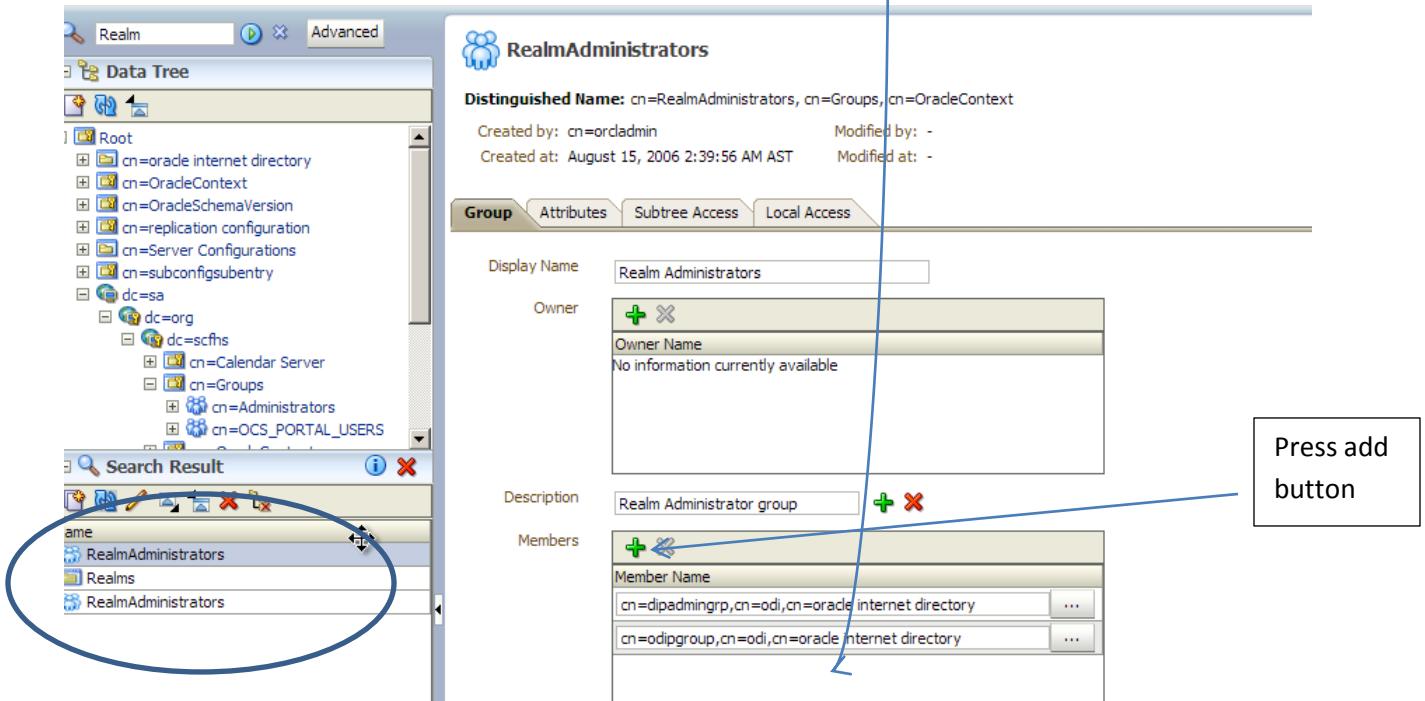
Optional Step is done

Step by step to Install & configure oracle Fusion Middle-ware

Long Steps but Easy to do, now after adding Siebel bind user to Administrator group , we need to add administrator group to realm.



Press Enter



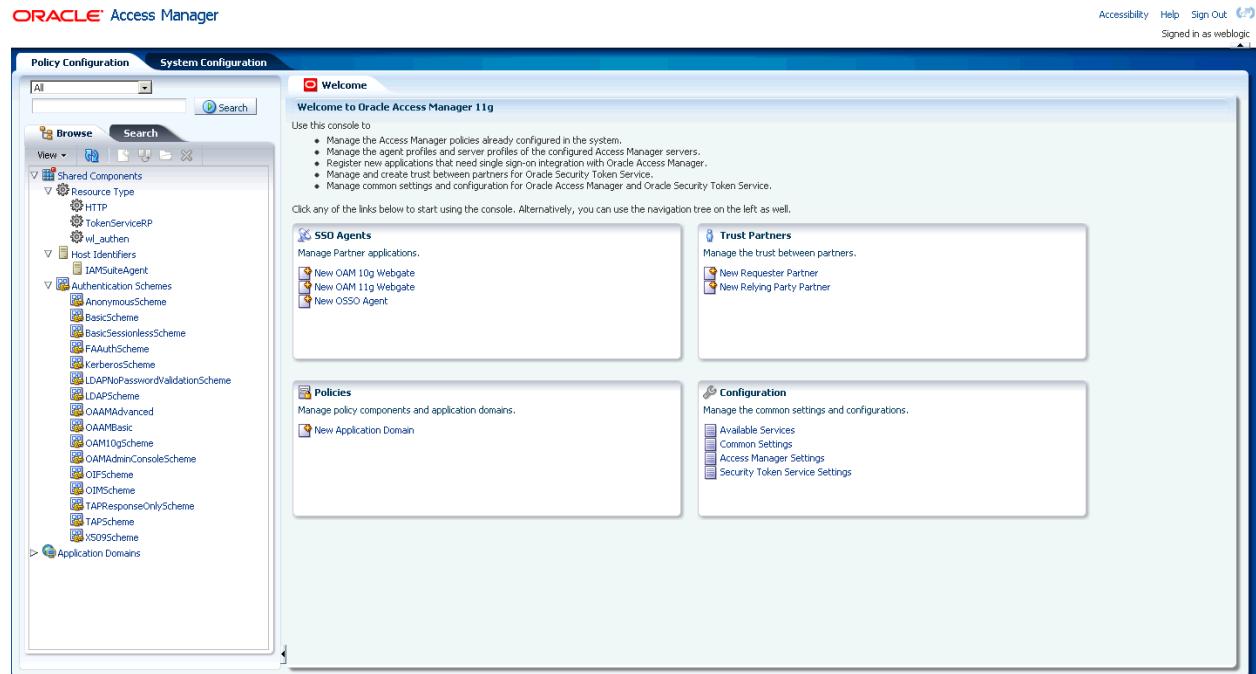
Step by step to Install & configure oracle Fusion Middle-ware

Don't forget to add administrator Group on Both RealmAdministrator.

Integration between OID and OAM.

To access to OAM console, <http://localhost:7001/oamconsole> , using username weblogic and follow the below Steps.

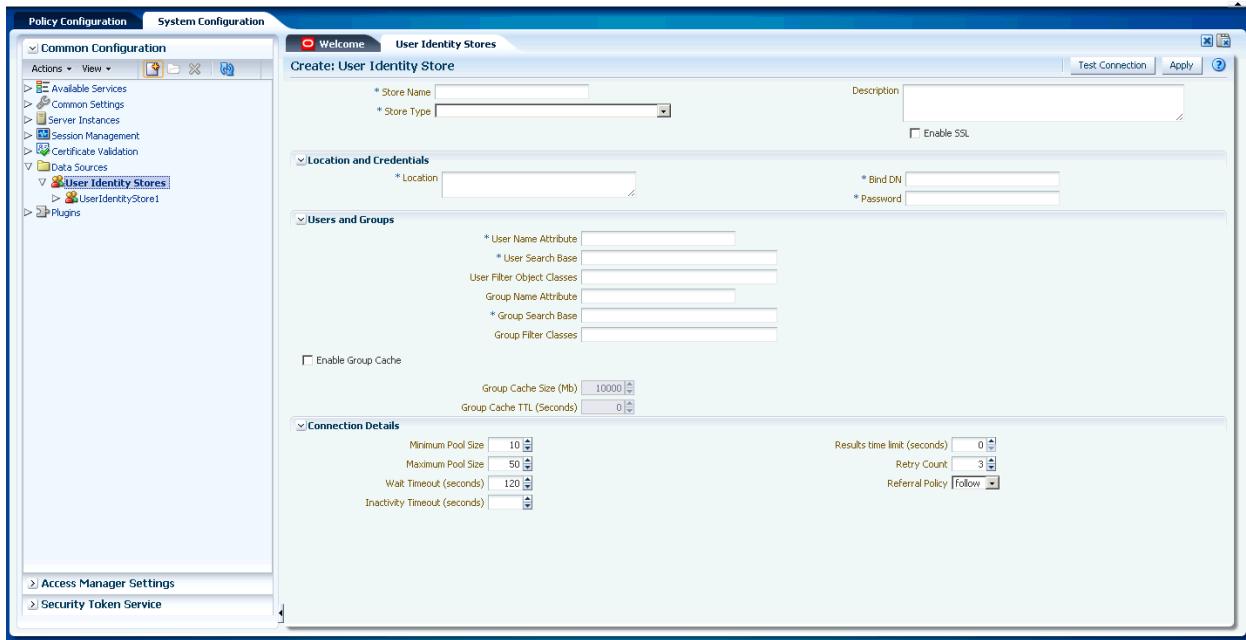
Welcome Page



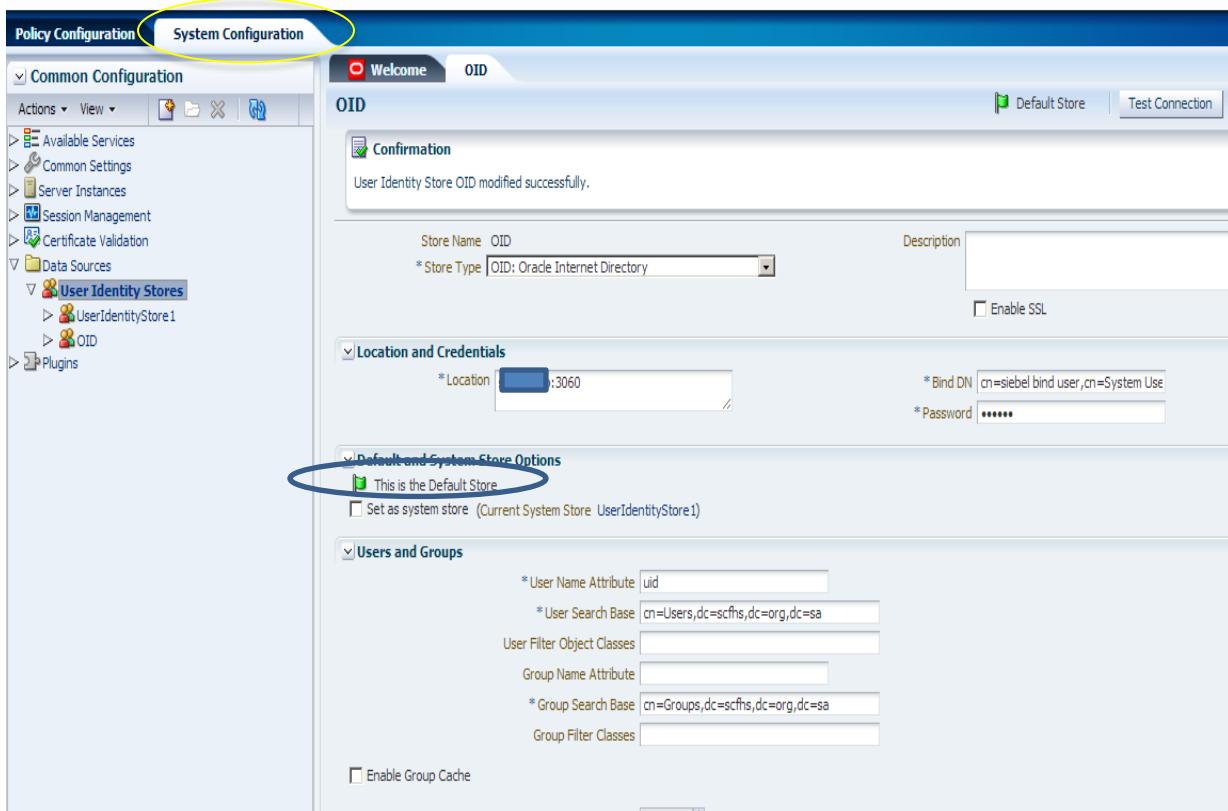
Step by step to Install & configure oracle Fusion Middle-ware

ORACLE® Access Manager

Accessibility Help Sign Out 
Signed in as weblogic



The screenshot shows the 'Create: User Identity Store' dialog. The 'Store Name' field is empty. The 'Store Type' dropdown is set to 'User Identity Stores'. The 'Description' field is empty. The 'Enable SSL' checkbox is unchecked. In the 'Location and Credentials' section, the 'Location' field contains 'UserIdentityStore1'. The 'Bind DN' and 'Password' fields are empty. In the 'Users and Groups' section, several fields are present: 'User Name Attribute' (uid), 'User Search Base' (cn=Users,dc=scfhs,dc=org,dc=sa), 'User Filter Object Classes' (empty), 'Group Name Attribute' (empty), 'Group Search Base' (cn=Groups,dc=scfhs,dc=org,dc=sa), and 'Group Filter Classes' (empty). Below these, there is a checkbox for 'Enable Group Cache' which is unchecked. Under 'Connection Details', the 'Group Cache Size (Mb)' is set to 10000, 'Group Cache TTL (Seconds)' is 0, 'Minimum Pool Size' is 10, 'Maximum Pool Size' is 50, 'Wait Timeout (seconds)' is 120, and 'Inactivity Timeout (seconds)' is 300. The 'Results time limit (seconds)' is 0, 'Retry Count' is 3, and 'Referral Policy' is 'follow'. At the bottom left, there are links for 'Access Manager Settings' and 'Security Token Service'.



The screenshot shows the 'OID' configuration page. The 'System Configuration' tab is selected. The 'Store Name' is 'OID' and the 'Store Type' is 'OID: Oracle Internet Directory'. The 'Description' field is empty. The 'Enable SSL' checkbox is unchecked. In the 'Location and Credentials' section, the 'Location' field contains 'UserIdentityStore1:3060'. The 'Bind DN' is 'cn=siebel bind user,cn=System User' and the 'Password' is '*****'. A green checkmark icon next to 'This is the Default Store' is highlighted with a yellow circle. There is also a checkbox for 'Set as system store' which is unchecked. In the 'Users and Groups' section, the 'User Name Attribute' is 'uid', 'User Search Base' is 'cn=Users,dc=scfhs,dc=org,dc=sa', 'User Filter Object Classes' is empty, 'Group Name Attribute' is empty, 'Group Search Base' is 'cn=Groups,dc=scfhs,dc=org,dc=sa', and 'Group Filter Classes' is empty. A checkbox for 'Enable Group Cache' is unchecked. At the top right, there are buttons for 'Default Store', 'Test Connection', and 'Apply'.

Step by step to Install & configure oracle Fusion Middle-ware

The image consists of two vertically stacked screenshots of the Oracle Access Manager (OAM) Policy Configuration interface.

Screenshot 1: Create: User Identity Store

This screenshot shows the 'Create: User Identity Store' dialog. The 'Store Name' is set to 'OID' and the 'Store Type' is 'OID: Oracle Internet Directory'. Under 'Location and Credentials', the 'Location' is 'IP-SCAN:3060', 'Bind DN' is 'cn=siebel bind user,cn=System Use', and 'Password' is '*****'. Under 'Users and Groups', various attributes like 'User Name Attribute' (uid), 'User Search Base' (cn=Users,dc=scfhs,dc=org,dc=sa), and 'Group Search Base' (cn=Groups,dc=scfhs,dc=org,dc=sa) are configured. Connection details like 'Group Cache Size (MB)' (10000), 'Group Cache TTL (Seconds)' (0), and various timeout settings are also specified.

Screenshot 2: Confirmation

This screenshot shows a confirmation message: 'User Identity Store OID created successfully.' The 'OID' store configuration page is displayed, showing the same details as the first screenshot, including the successful creation message at the top.

When you get access to the above link you will see OAM Page, Do the following:

- Change to System Configuration tab.
- Data Source → Press New Button to create new identity Store Called it “OID”
- Store type Will be Oracle Internet Directory
- Location : Since I am having RAC I put IP-SCAN:3060
- Bind DN you can use orcladmin or in my case I used Siebel Bind user that I created earlier

Step by step to Install & configure oracle Fusion Middle-ware

- The Rest of the Parameters should be taken from odsm page.
- Press Test Connection to make sure your configuration is right.

You will do these steps once unless something changes.

Now on AdminServer Console start UCM server like the below on node 1 only.

	Server	Machine	State	Status of Last Action
<input type="checkbox"/>	AdminServer(admin)	sbl-prd-gtwy	RUNNING	None
<input type="checkbox"/>	oam_server1	[REDACTED]	RUNNING	TASK COMPLETED
<input type="checkbox"/>	oam_server2	[REDACTED]	RUNNING	TASK COMPLETED

You can access to UCM <http://localhost:16200/cs>

Since every configuration for Servers in my Setup created on QFS File System, I will do this with UCM, to be shared between two nodes.

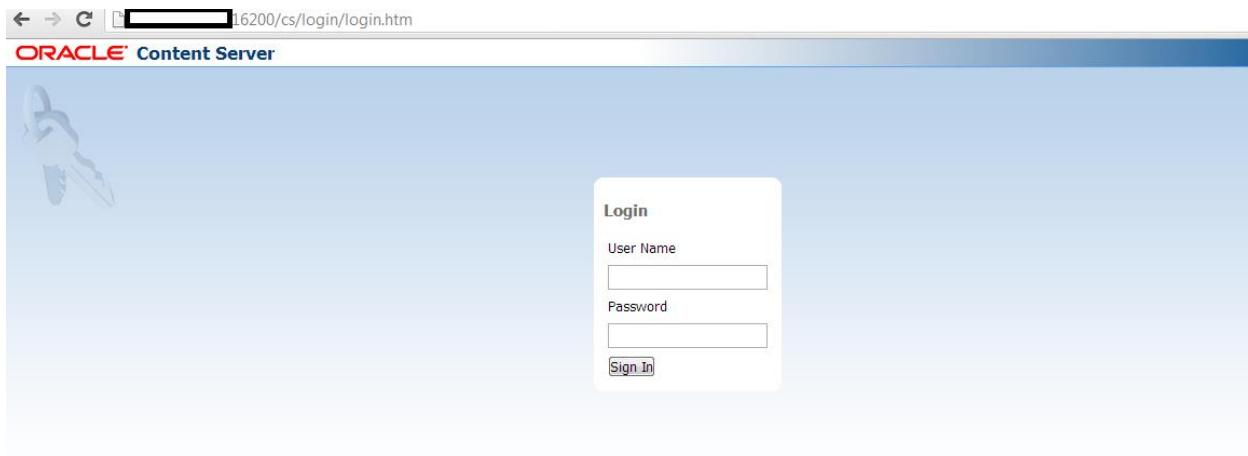
There's Nothing Difficult with UCM configuration it's only one time configuration.

Note: Don't think to start node 2 managed servers at all, do it after you are sure node 1 is configured right.

Check the below Screenshot that describe the Configuration for UCM Server:

When The Login Page Appear and you enter credentials immediately new page will be appear only for the first time.

Step by step to Install & configure oracle Fusion Middle-ware



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Content Server Configuration

Node Information

Cluster Node Identifier: UCM_server1

* Content Server Instance Folder: /u01/app/oracle/domains/IDMDomain/ucm/cs/

* Native File Repository Location: /u01/app/oracle/domains/IDMDomain/ucm/cs/va

* WebLayout Folder: /u01/app/oracle/domains/IDMDomain/ucm/cs/we

Content Server URL Prefix: /cs/

Instance Information

Is New Content Server Instance:

Server Socket Port:

Incoming Socket Connection Address Security Filter: 127.0.0.1|0:0:0:0:0:0:0:1

* Web Server HTTP/HTTPS Address: [REDACTED]:16200

Web Address Is HTTPS:

Company Mail Server: mail

Administrator E-Mail Address: sysadmin@example.com

* Server Instance Name: [REDACTED]16200

* Server Instance Label: [REDACTED]16200

* Server Instance Description: Instance [REDACTED]16200

Is Auto Number Enabled:

Auto Number Prefix: [REDACTED]16200

Search Information

FullText Search Option: None

External DataSource:

Note On Above Picture:

- The entire Path will be on QFS Shared to be readable from node 2 → /u01/shared.
- Incoming Socket Connection : 127.0.0.1|0:0:0:0:0:0:1|*.*.*
- Web Server HTTP : Scan-ip:16200
- Server Instance Name: Any Name you Choose
- Server Instance Label : Any Name you Choose
- Auto Number : HS

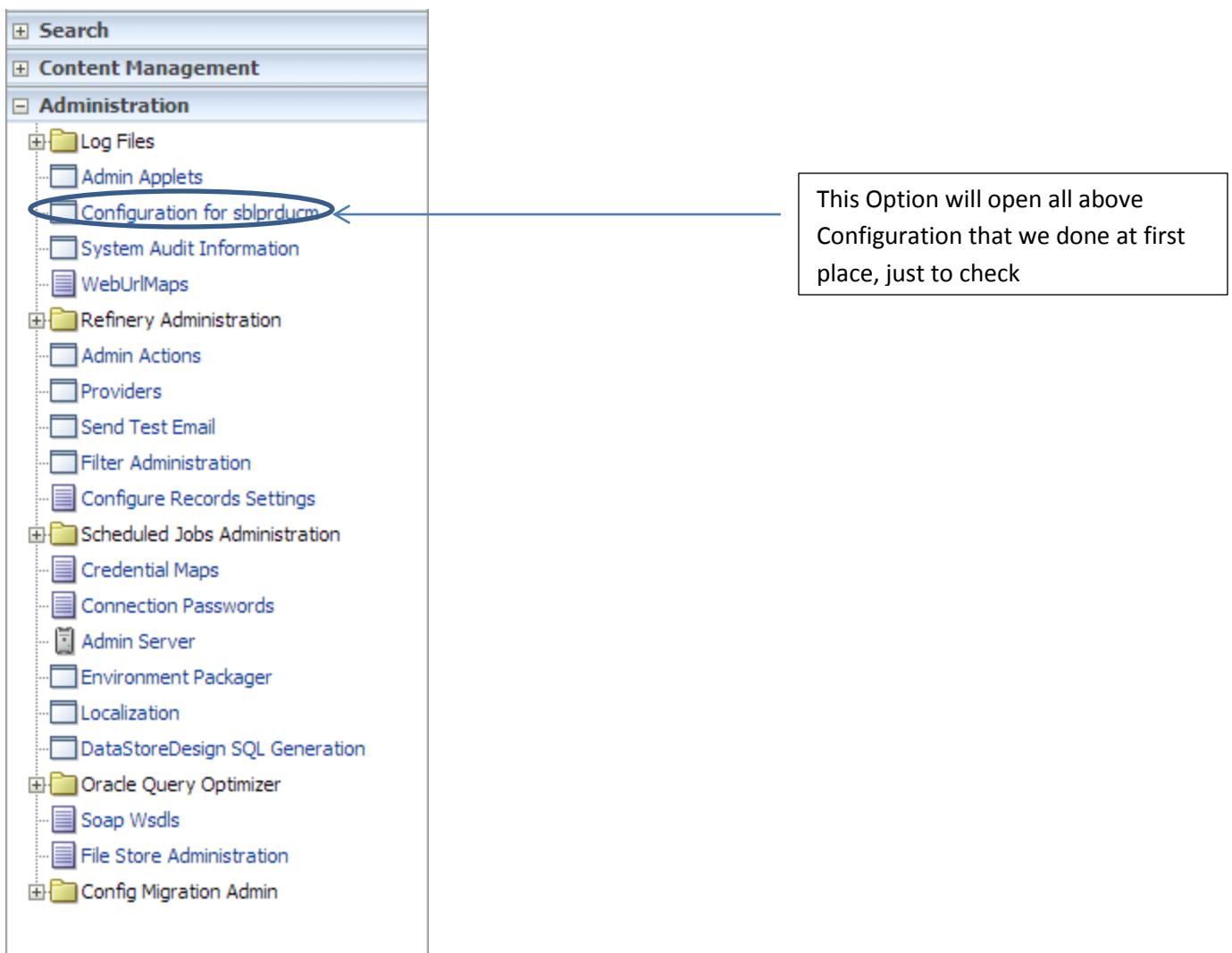
After this configuration will be asked to restart UCM Server, Do this from AdminServer Console.

Content Server Configuration

Post-install configuration complete. Please restart this node.

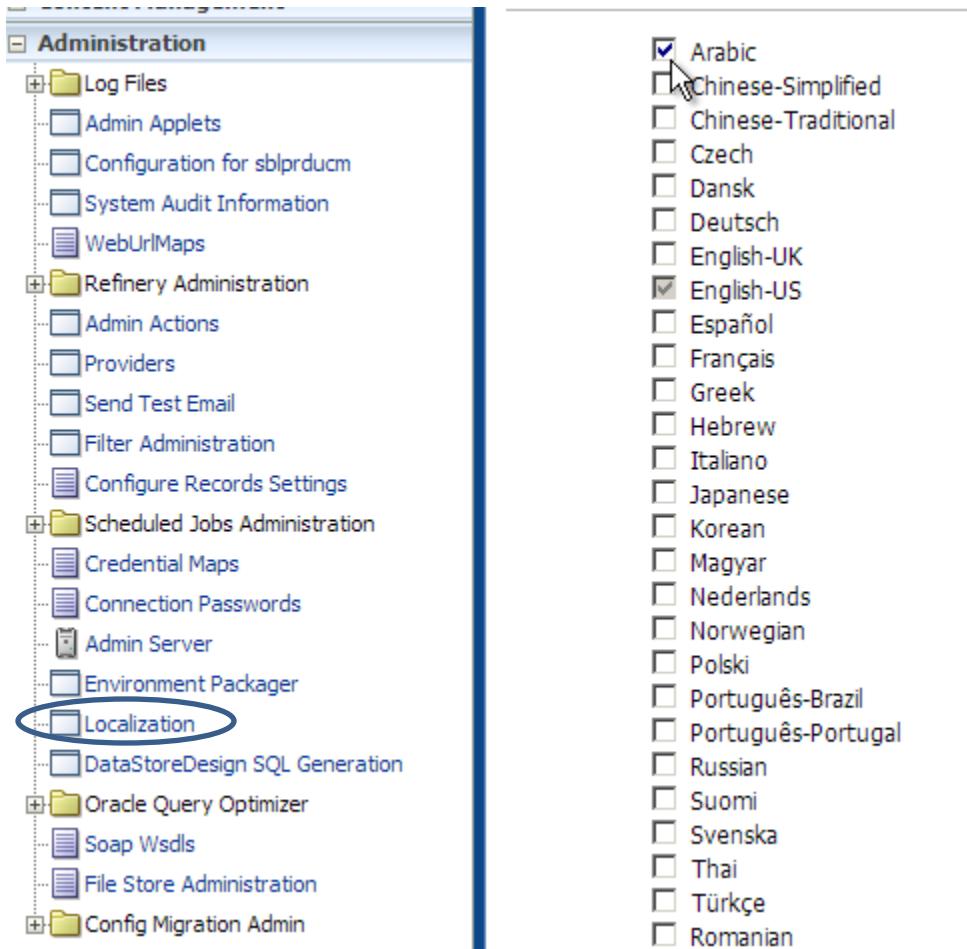
Restart is Done !!!

Re-access to UCM , <http://localhost:16200/cs>

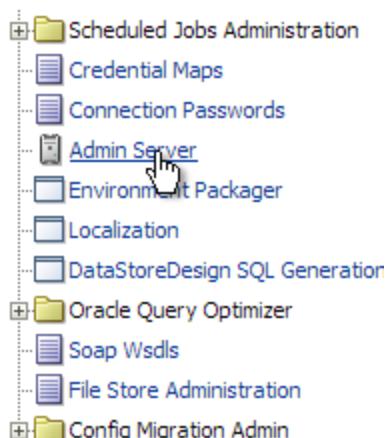


Step by step to Install & configure oracle Fusion Middle-ware

In my case, I need to Arabic language



I need to add some competent for Siebel, From Admin Server Option.



Step by step to Install & configure oracle Fusion Middle-ware

New Page Will Opened, Enable the below Competent by Check:

[SiebelEcmIntegration](#)

This component is a required part of the Siebel Adapter for Enterprise Content Management. It allows Siebel CRM users to store and retrieve Siebel business entity attached documents managed in the Content Server repository. The SiebelIntegrationSearchDisplay component also needs to be enabled for this component to function correctly.

[SiebelIntegrationSearchDisplay](#)

This component is a required part of the Siebel Adapter for Enterprise Content Management. It creates the Siebel integration search results display page and the customization template required for integrating Content Server with Siebel. The SiebelEcmIntegration component also needs to be enabled for this component to function correctly. NOTE: The Siebel Adapter for Enterprise Content Management includes other required components that need to be installed on the Siebel server.

[SiebelSearchExtension](#)

[OPTIONAL] This component is an optional part of the Siebel Adapter for Enterprise Content Management. It determines whether documents not yet released are displayed in the Siebel attachments list. If enabled, all documents in the system are displayed, including those waiting to be indexed, in the Inbound Refinery conversion process, or in workflow. If not enabled, only released documents are displayed in the Siebel attachments list. NOTE: This feature is available only when Metadata Only Search is configured on the Content Server.

[SiebelSearchExtraParams](#)

[OPTIONAL] This component is an optional part of the Siebel Adapter for Enterprise Content Management. It enables the passing of additional Siebel metadata values to the Content Server Siebel Adapter components. If enabled the configured extra Siebel parameters are added as metadata settings on the New or Scan attachment forms.

The screenshot shows the 'Content Security Options' configuration page. On the left, there's a sidebar with links like 'Server Status', 'Component Manager', 'General Configuration', 'Content Security' (which is selected and highlighted in blue), 'Internet Configuration', 'View Admin Output', 'View Server Logs', 'View Providers', and 'System Audit Information'. A note at the bottom of the sidebar says: 'This server must be restarted before the changes will take place.' The main content area has a section titled 'Content Security Options' with several checkboxes:

- Allow get copy for user with read privilege
When enabled, a user with Read privilege on a content item can get a copy of the native file.
- Allow only original contributor to check out
When enabled, Admin privilege is required to check out a content item checked in by another user.
- Allow author to delete revision
When enabled, authors are allowed to delete their revisions without delete privilege.
- Show only known accounts
When enabled, the list of accounts on a check-in page will contain only globally predefined accounts.

At the bottom right are three buttons: 'Save', 'Reset', and 'Cancel'.

Step by step to Install & configure oracle Fusion Middle-ware

Options for sblprducm

[Server Status](#)
[Component Manager](#)
» **General Configuration**
[Content Security](#)
[Internet Configuration](#)
[View Admin Output](#)
[View Server Logs](#)
[View Providers](#)
[System Audit Information](#)

This server must be restarted before the changes will take place.

General Configuration

Allow override format on check-in
 Enable download applet
 Enable upload applet
 Enable accounts

Automatically assign a content ID on check-in
Auto Number Prefix

Major Revision Label Sequence:
Minor Revision Label Sequence:

Enable Java Server Page (JSP)
JSP Enabled Groups:

Additional Configuration Variables:

```
IntradocServerPort=4444
FileEncoding=UTF8
WebServer=javaAppServer
```

Restart UCM Server.

Now UCM is Done , OID is Done , Integration is Done, and One Miss Step For SSO Application which Add Providers to admin Server Console .

As I mentioned before there's Lot of Steps But all of them easy to do.

Step by step to Install & configure oracle Fusion Middle-ware

Adding Providers to Admin Server

From <http://localhost:7001/console>

Services → Security Realms → Providers and Press “New”.

The screenshot shows the Oracle WebLogic Administration Console. On the left, there's a navigation tree under 'Domain Structure' with 'Security Realms' selected. The main panel displays a table titled 'Realms (Filtered - More Columns Exist)' with one row. The row contains a checkbox, the name 'myrealm', and the column 'Default Realm' which has 'true' checked. Below the table, there are 'New' and 'Delete' buttons. At the bottom right of the table area, it says 'Showing 1 to 1 of 1 Previous | Next'. On the far left, there's a 'How do I...' section with links for configuring new security realms, deleting them, and changing the default security realm.

In My case I need two Providers

- OID
- OAM

For OID it will be like below

The screenshot shows the 'Create a New Authentication Provider' dialog box. At the top, there are 'OK' and 'Cancel' buttons. The main area is titled 'Create a new Authentication Provider' and contains the following text: 'The following properties will be used to identify your new Authentication Provider.' and '* Indicates required fields'. Below this, there's a field labeled 'Name:' with 'OID' entered. Further down, it says 'This is the type of authentication provider you wish to create.' and 'Type:' followed by a dropdown menu where 'OracleInternetDirectoryAuthenticator' is selected. At the bottom of the dialog are 'OK' and 'Cancel' buttons again.

Step by step to Install & configure oracle Fusion Middle-ware

Make Sure on Same Screen after adding OID Provider to pre-order and Make OID provider the First One.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there's a sidebar with 'Change Center' and 'View changes and restarts' sections, and a 'Domain Structure' tree under 'IDMDomain' which includes Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics. The main area is titled 'Reorder Authentication Providers' with 'OK' and 'Cancel' buttons. It contains a section for 'Reorder Authentication Providers' with instructions: 'You can reorder your Authentication Providers using the list below. By reordering Authentication Providers, you can alter the sequence in which they are used during authentication.' Below this is a 'Select authenticator(s) in the list and use arrows to move them up and down in the list.' A list titled 'Authentication Providers:' shows three items: 'Available:' with 'OID' checked (highlighted in blue), and 'DefaultAuthenticator' and 'DefaultIdentityAsserter' both unchecked. To the right of the list are up and down arrow buttons.

Press on OID Provider and Do the Below:

The screenshot shows the 'Settings for OID' page. At the top, tabs for 'Configuration' (selected), 'Performance', 'Common' (selected), and 'Provider Specific' are visible. A 'Save' button is located at the bottom left. The main content area displays basic information about the OID provider, including its name ('OID'), description ('Provider that performs LDAP authentication'), version ('1.0'), and control flag ('SUFFICIENT'). The 'Control Flag' dropdown is circled with a blue oval. A note below the description says: 'This page displays basic information about this Oracle Internet Directory Authentication provider. You can also use this page to set the JAAS Control Flag sequence.' To the right of the description, there's a link to 'More Info...'. To the right of the version, there's a link to 'More Info...'. To the right of the control flag, there's a link to 'More Info...'. A cursor is shown hovering over the 'Save' button.

Step by step to Install & configure oracle Fusion Middle-ware

We didn't finish OID Configuration yet, Press Specific Provider

— Connection —

Host:	<input type="text" value="SCAN-IP"/>	The host name.
Port:	<input type="text" value="3060"/>	The port number.
Principal:	<input type="text" value="cn=siebel bind user,cn=System,cn=config"/>	The Distinguished Name used to connect.
Credential:	<input type="password" value="*****"/>	The credential used to connect to the server. Must be the same as the Principal.
Confirm Credential:	<input type="password" value="*****"/>	
<input type="checkbox"/> SSLEnabled		Specifies whether or not SSL/TLS should be used for this LDAP server.
..		

On Users

— Users —

User Base DN:	<input type="text" value="cn=Users,dc=scfhs,dc=oracle"/>	The base distinguished name (DN) of the tree that contains users. More Info...
All Users Filter:	<input type="text" value="(&(uid=*)(objectclass=person))"/>	An LDAP search filter for finding all users by name (DN). Note: If you change the user name attribute, you must duplicate that change in the User Name Attribute attributes. More Info...
User From Name Filter:	<input type="text" value="(&(uid=%u)(objectclass=person))"/>	An LDAP search filter for finding a user given a name attribute specified in this filter must match the User Name Attribute attribute.
User Search Scope:	<input type="button" value="subtree"/>	Specifies how deep in the LDAP directory tree the provider should search for users. More Info...
User Name Attribute:	<input type="text" value="uid"/>	The attribute of an LDAP user object class. The user name attribute specified must match the User Name Attribute and User From Name Filter attributes.
User Object Class:	<input type="text" value="person"/>	The LDAP object class that stores users.
<input type="checkbox"/> Use Retrieved User Name as Principal		Specifies whether or not the user name retrieved from the User Name Attribute should be used as the Principal in the Subject. More Info...

Step by step to Install & configure oracle Fusion Middle-ware

On Groups , Don't change the rest

The screenshot shows the 'Groups' configuration page. It includes fields for Group Base DN, All Groups Filter, Group From Name Filter, Group Search Scope, Group Membership Searching, Max Group Membership Search Level, and Ignore Duplicate Membership. The 'Group Base DN' field contains the value 'cn=Groups,dc=scfhs,dc=it', which is highlighted with a blue oval. The 'All Groups Filter' field contains the value '(&(cn=*)(!(objectclass=grc))'. The 'Group From Name Filter' field contains the value '(|((&(cn=%g)(objectclass=)). The 'Group Search Scope' dropdown is set to 'subtree'. The 'Group Membership Searching' dropdown is set to 'unlimited'. The 'Max Group Membership Search Level' input field is set to '0'. The 'Ignore Duplicate Membership' checkbox is checked.

Since you convert OID to Sufficient, Change DefaultAuthenticator to Sufficient also

The screenshot shows the 'Settings for DefaultAuthenticator' configuration page. It has tabs for Configuration, Performance, Migration, Common, and Provider Specific. The Common tab is selected. It includes fields for Name, Description, Version, and Control Flag. The 'Control Flag' dropdown is set to 'SUFFICIENT'. A 'Save' button is visible at the bottom left. The 'Name' field is set to 'DefaultAuthenticator', 'Description' to 'WebLogic Authentication Provider', and 'Version' to '1.0'. The 'Control Flag' dropdown is set to 'SUFFICIENT'.

Step by step to Install & configure oracle Fusion Middle-ware

Add the Second Provider “OAM”

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

The name of the authentication provider.

* Name: OAM

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

Type: OAMIdentityAsserter

OK Cancel

Press on Pre Order Again:

You can reorder your Authentication Providers using the list below. By reordering Authentication Providers, you can change the order in which they are evaluated.

Select authenticator(s) in the list and use arrows to move them up and down in the list.

Authentication Providers:

Available:

- OAM
- OID
- DefaultAuthenticator
- DefaultIdentityAsserter

OK Cancel

Step by step to Install & configure oracle Fusion Middle-ware

Enter to OAM Provider:

Settings for OAM

Configuration

Common Provider Specific

Save

This page allows you to define the general configuration of this provider.

Name: OAM

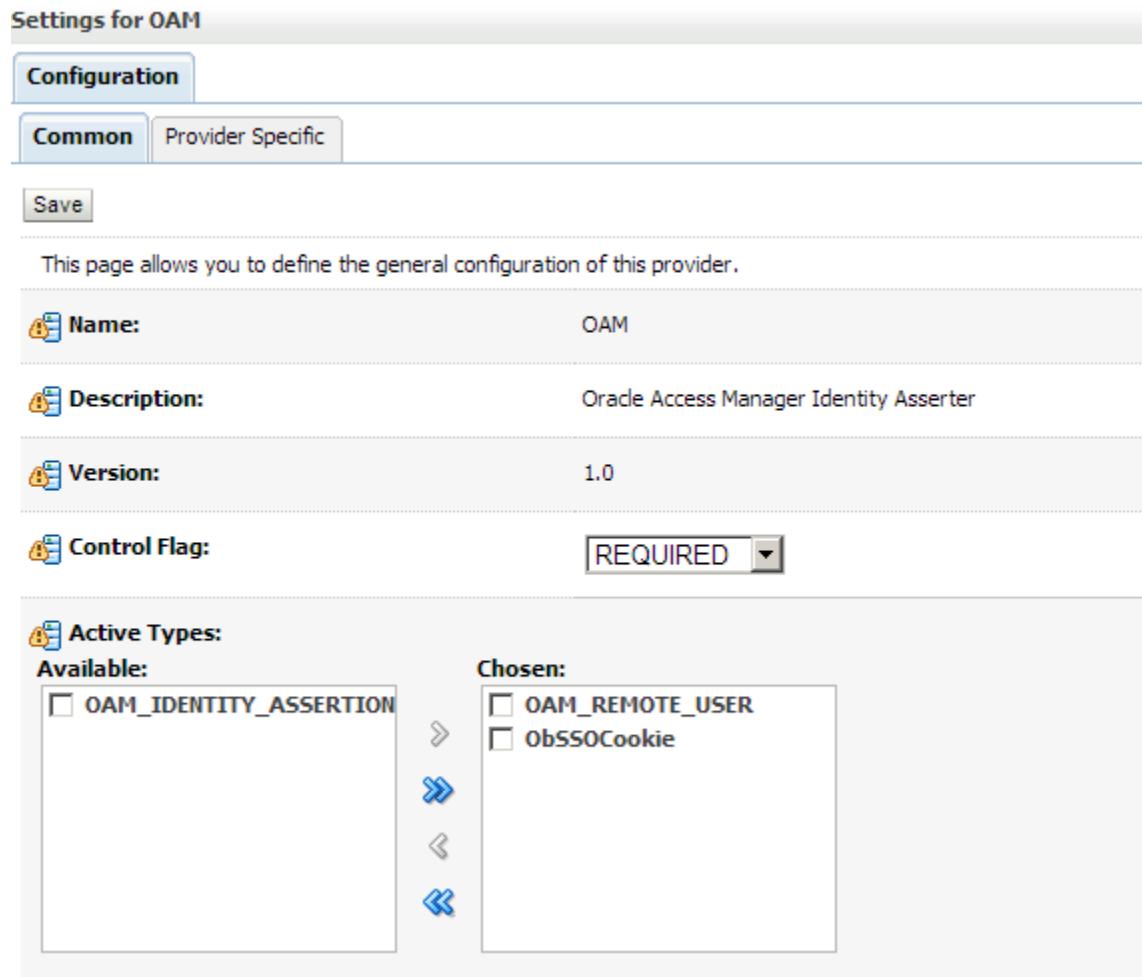
Description: Oracle Access Manager Identity Asserter

Version: 1.0

Control Flag: REQUIRED

Active Types:

Available:	Chosen:
<input type="checkbox"/> OAM_IDENTITY_ASSERTION	<input type="checkbox"/> OAM_REMOTE_USER <input type="checkbox"/> ObSSOCookie



Restart everything after this step.

Step by step to Install & configure oracle Fusion Middle-ware

Finally To need to configure Oracle Content Server for SSO , And You cannot As I know do this from GUI , this is For Logout SSO.

You have to do this Using WLST Command

```
Cd /u01/app/oracle/fmw/Oracle_ECM1/Common/bin
```

```
./wlst.sh
```

```
Connect('welogic','password',t3://sbl-prd-gtwy:7001')
```

- Sbl-prd-gtwy → it's Virtual host that we created on RAC before.

After connecting Run The Below command without anything changed

```
addOAMSSOProvider(loginuri="/${app.context}/adfAuthentication", logouturi="/oamsso/logout.html")
```

Step by step to Install & configure oracle Fusion Middle-ware

Reference Document:

- 1- I recommend you to read Oracle Documentation [Here](#). (The Last Step from this document)
- 2- Oracle Document [Here](#).

Please if you find any Mistake in this document tell me on twitter: [@osamaoracle](#)

There's Another Part for this document contain

- WebTier
- WeTier Configuration
- WeGate
- WebGate Configuration

Thank you
Osama Mustafa