# Step by Step SOA 12c Installation guide

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**Date written : 06/02/2014**

## Platform Details

- H/W Platform: Linux soa12c-live 3.8.13-55.1.1.el6uek.x86_64 #2 SMP Thu Dec 11 00:20:49 PST 2014 x86_64 x86_64 x86_64 GNU/Linux
- S/W Environment: Oracle
- Application Type: Middleware

## Target readers

Oracle SOA Suite Developers, System Administrators, Technical Architects, Technical Leads.

## Keywords

SOA 12c, Database Installation, Fusion Middleware

## Overview

This document provides a step by step procedure for the installation of Oracle SOA Suite 12c

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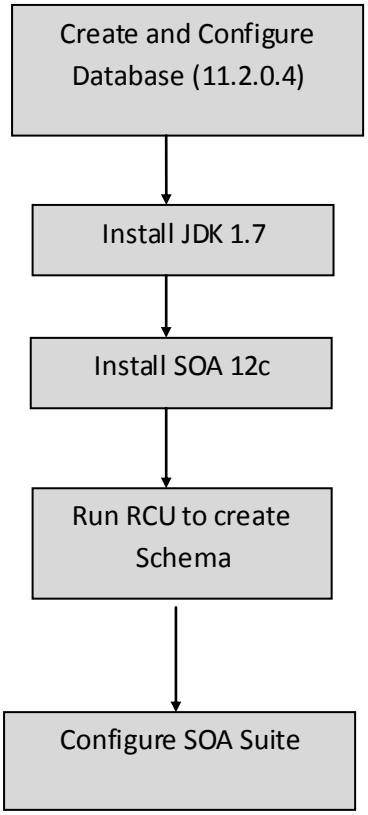
# Sequence of Installation




**Note:**

Please refer the screenshots of the installation and/or configuration below each section.

# Database Installation

1) Login as root user and install the Database package from yum repository by giving the below command. It will take care of the all the pre-requisite required by Oracle Database Server (http://www.oracle.com/technetwork/articles/servers-storage-admin/ginnydbinstallonlinux-488779.html)

```
yum install oracle-rdbms-server-11gR2-preinstall
```

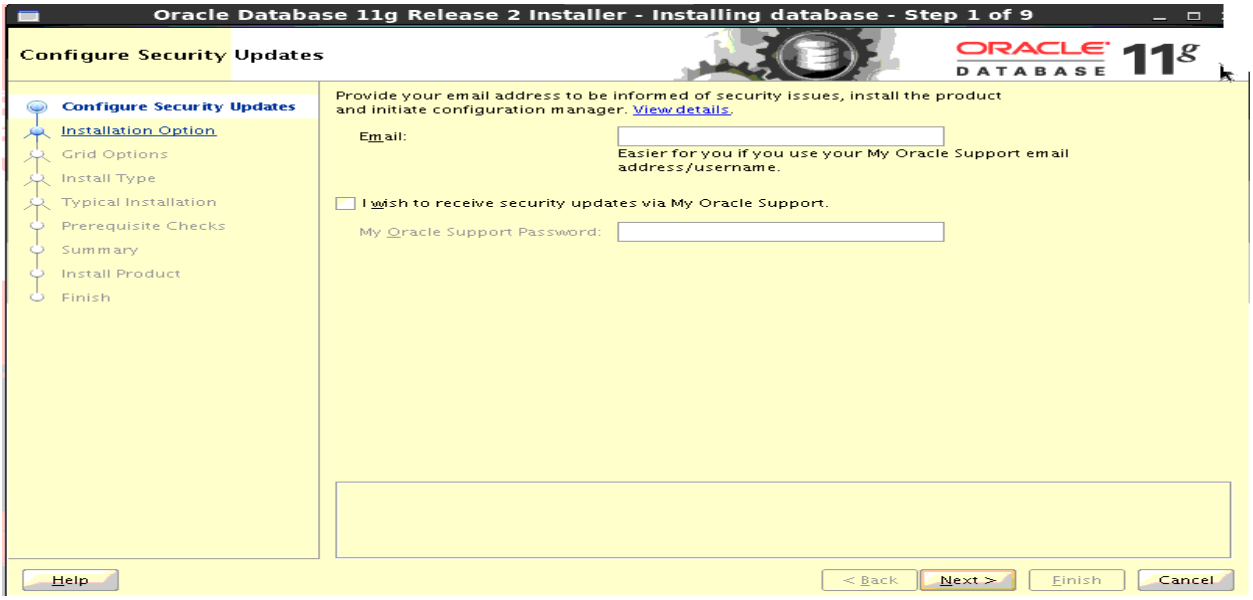
2) Download Oracle Database installer from support.oracle.com
**Patch 13390677: 11.2.0.4.0 PATCH SET FOR ORACLE DATABASE SERVER**

3) Out of the 7 parts, for standard Database, we require only first 2 parts:
p13390677_112040_Linux-x86-64_1of7.zip
p13390677_112040_Linux-x86-64_2of7.zip

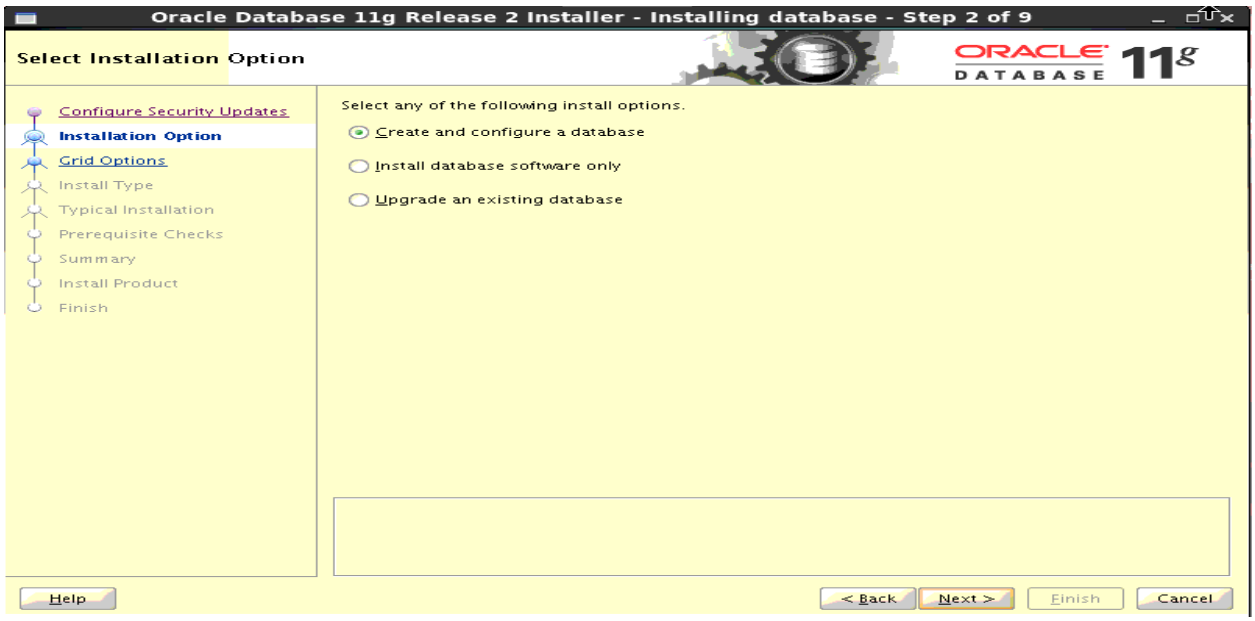
4) Unzip the above files.

5) Run the installer in the command prompt

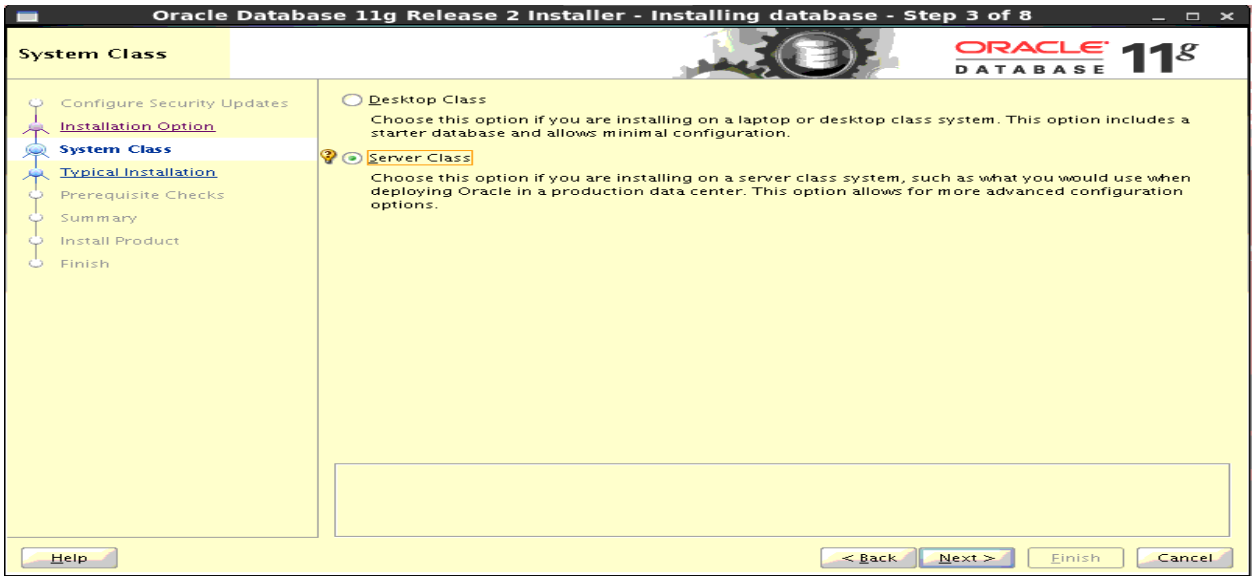
```
./runInstaller
```



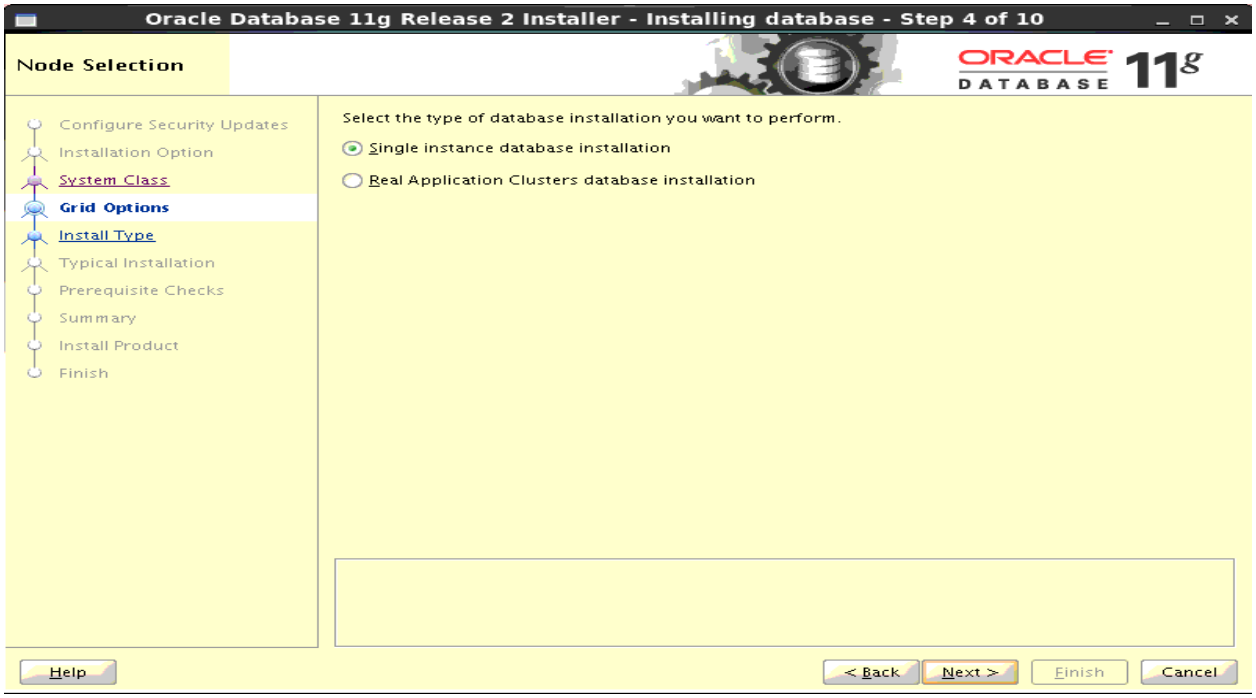

6) Click Next



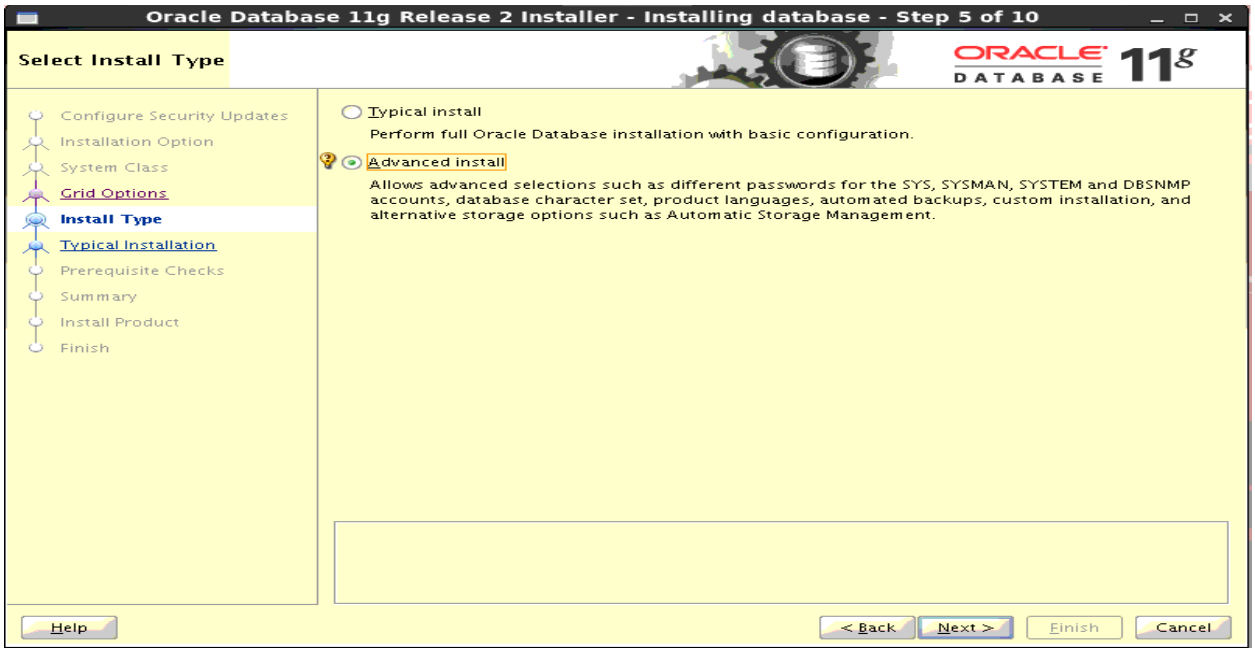

7) Select Create and Configure a database and hit Next



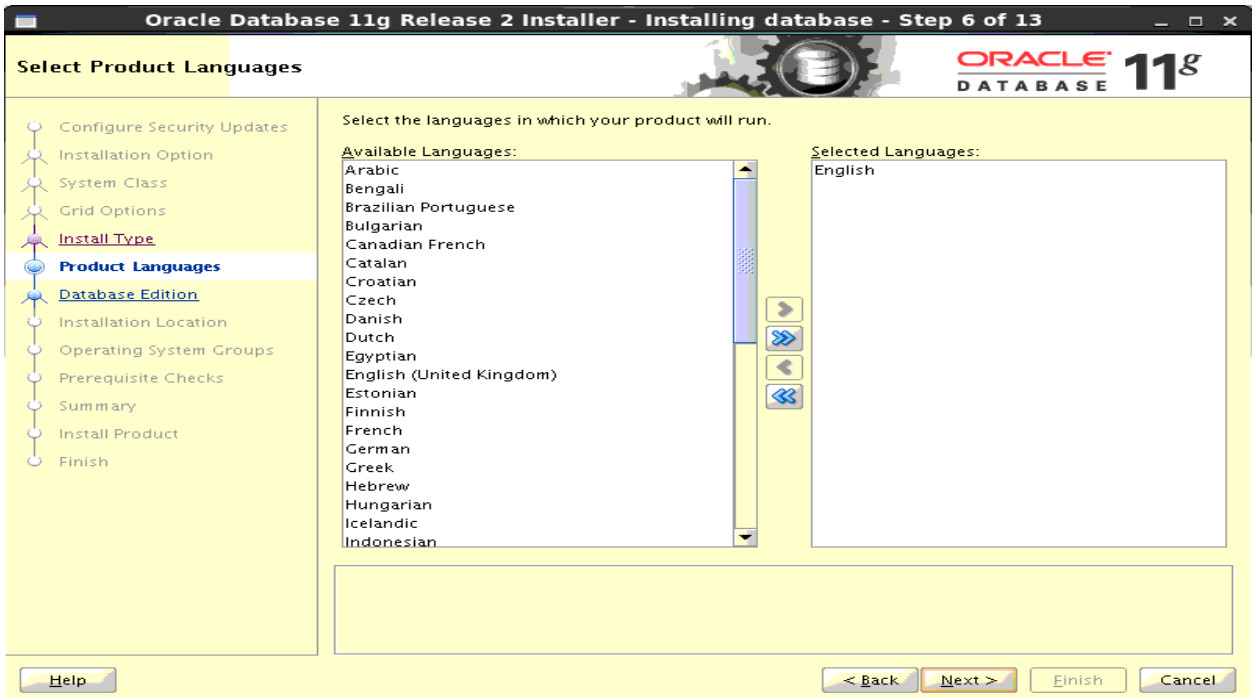

8) Select Server Class

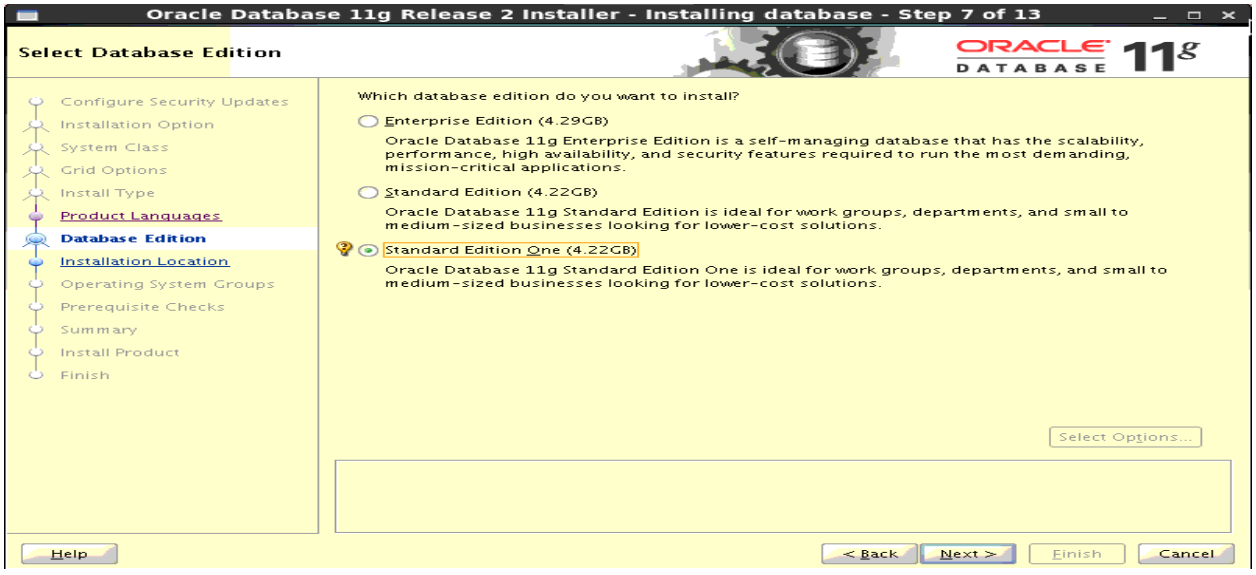



9) Select Single Instance

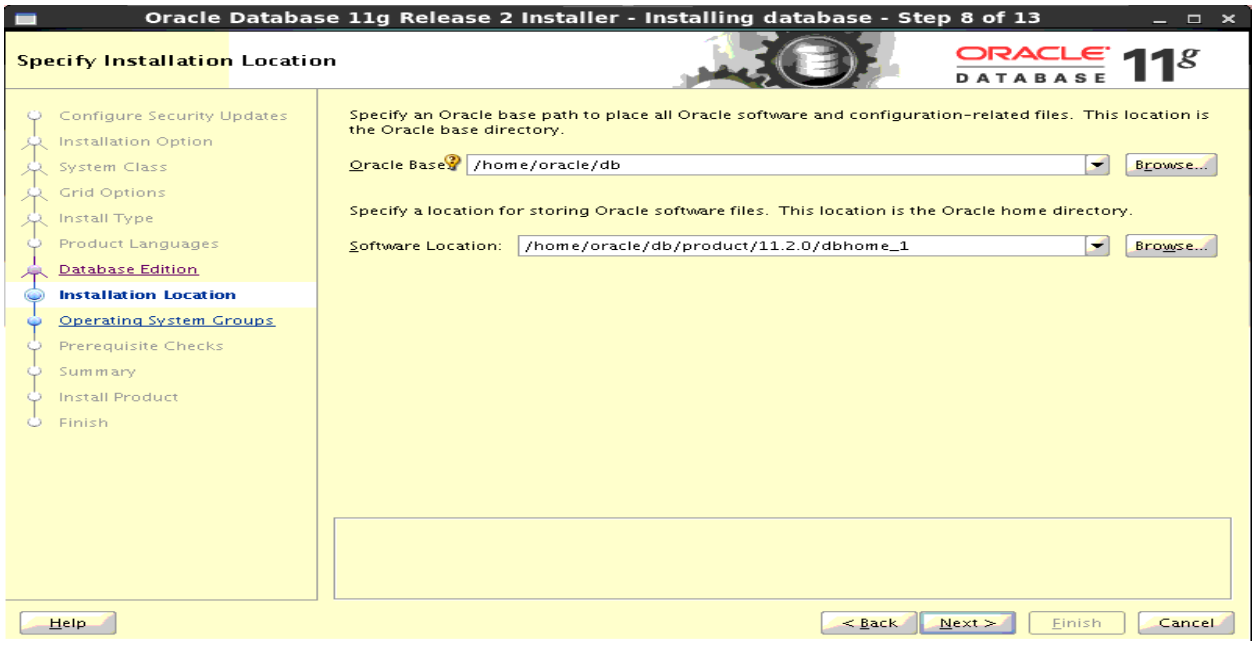



10) Select Advanced Install



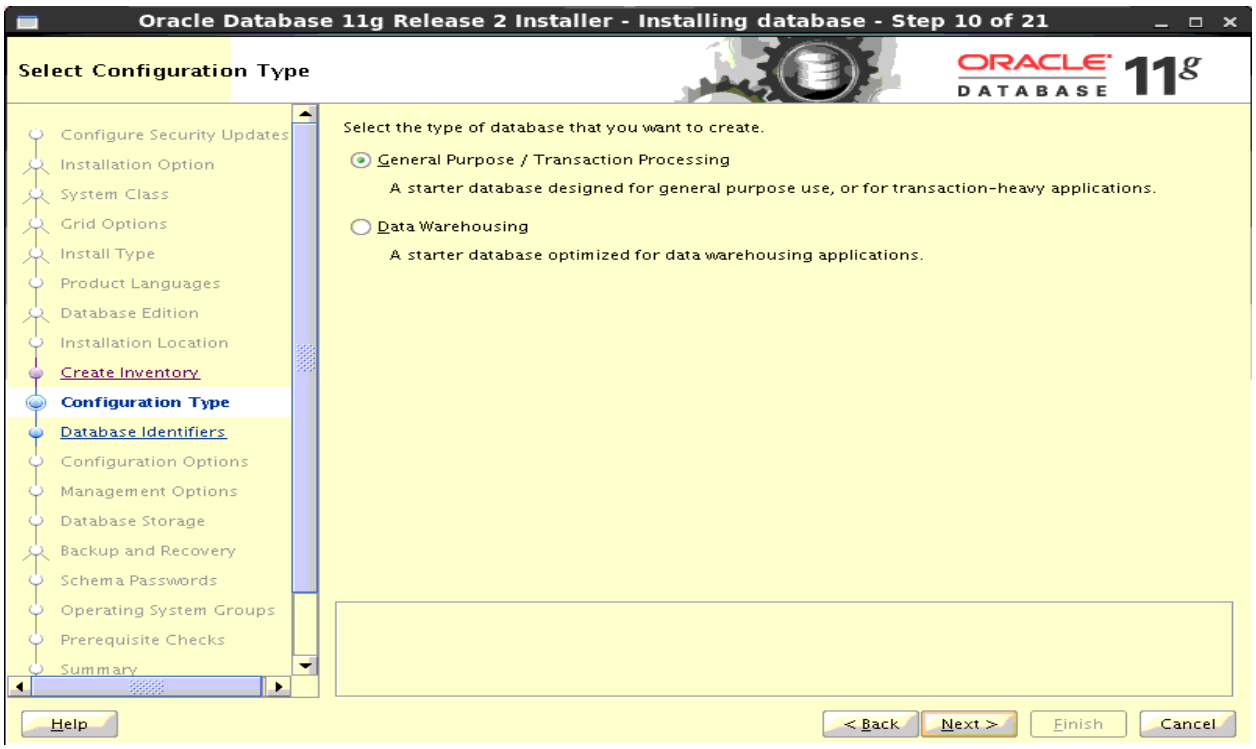




11) Select Standard Edition One

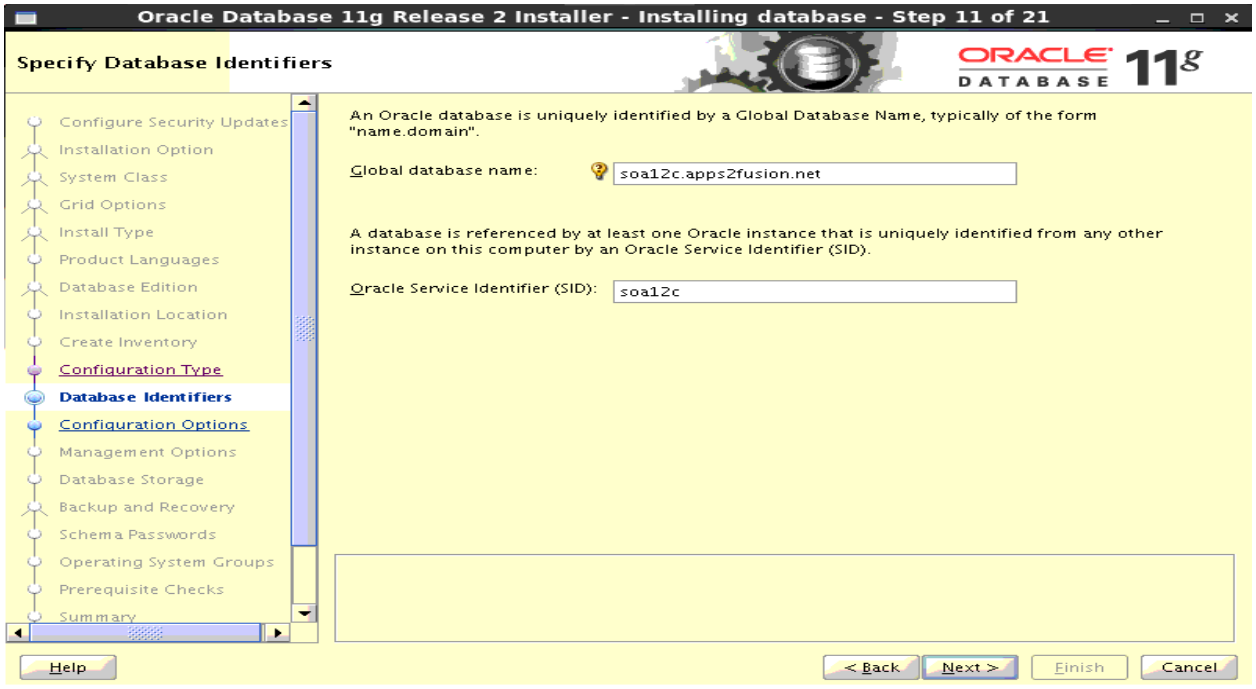



12) Give Orade Base as some directory location

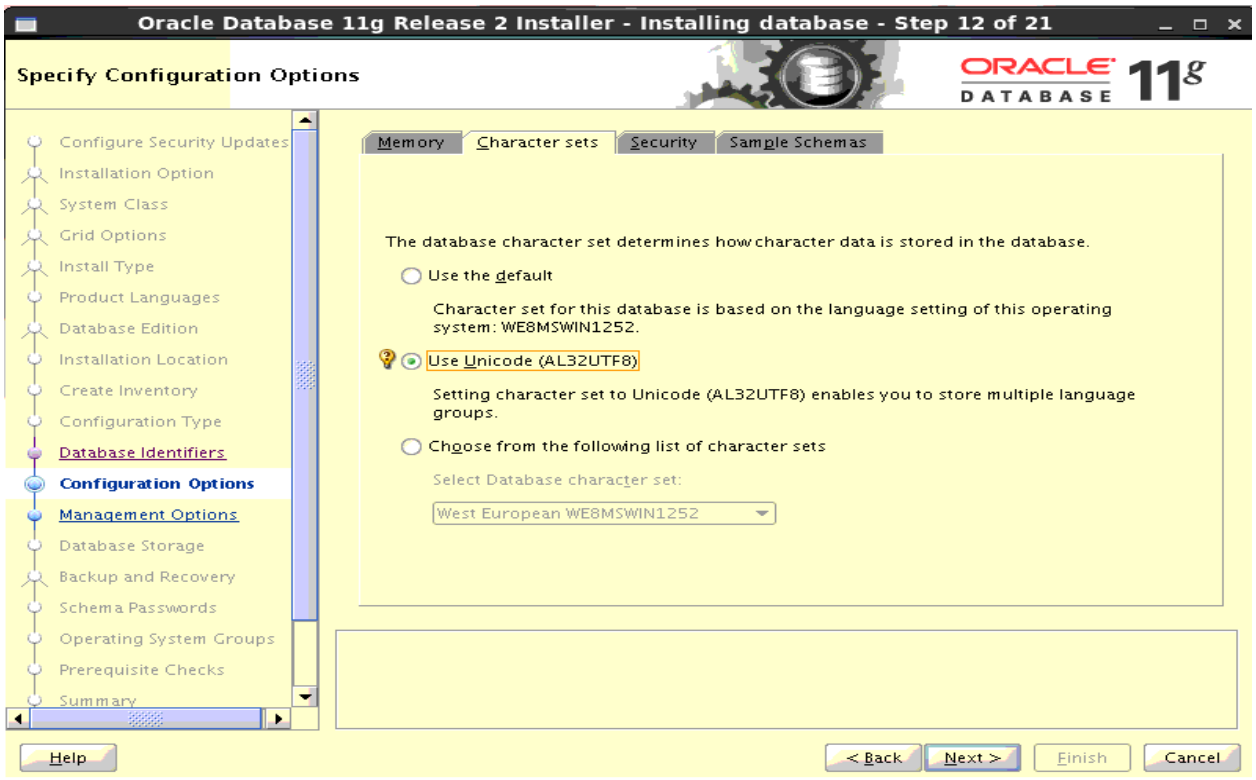
13) Select the default Inventory Location. Hit Next



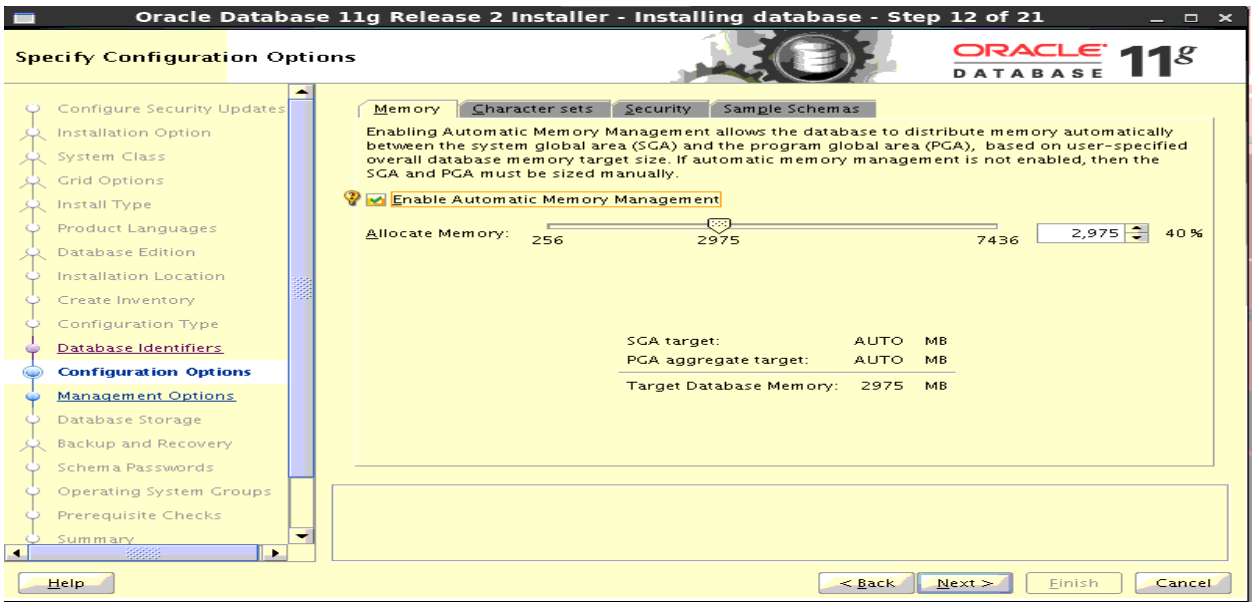

14) Select General Purpose Database



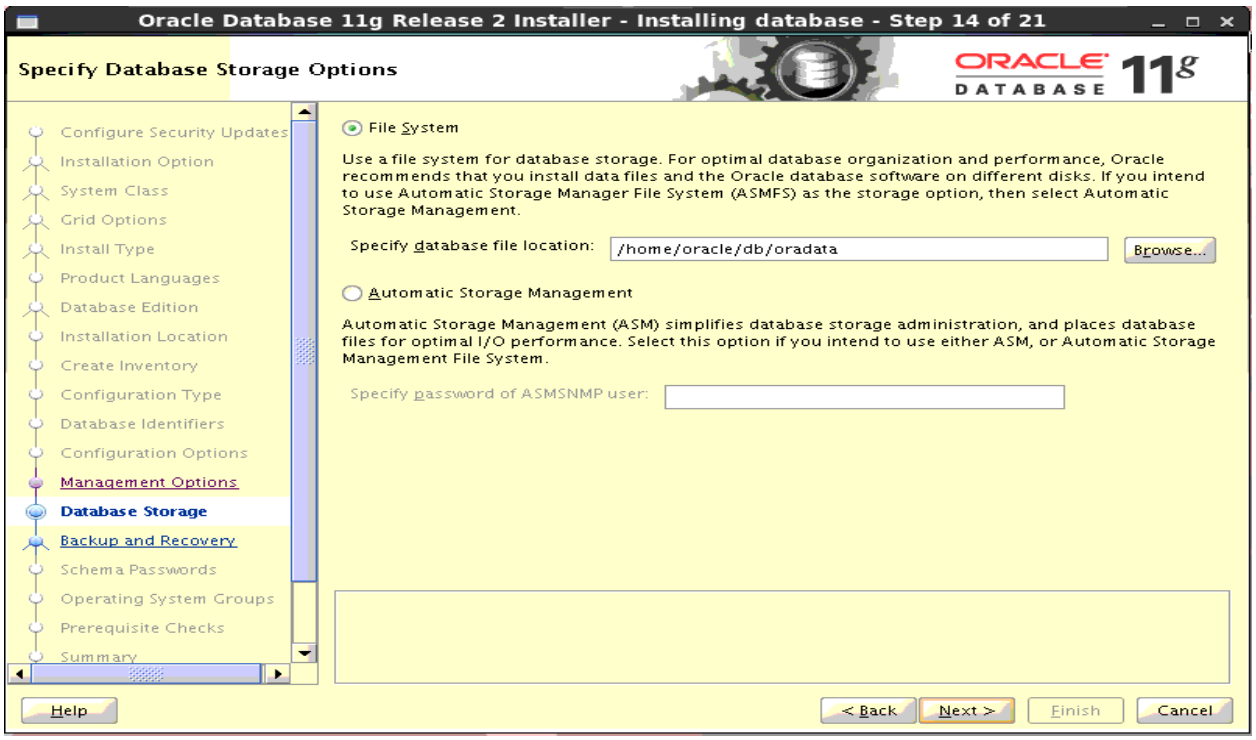

15) Give the Service Name for your Database.



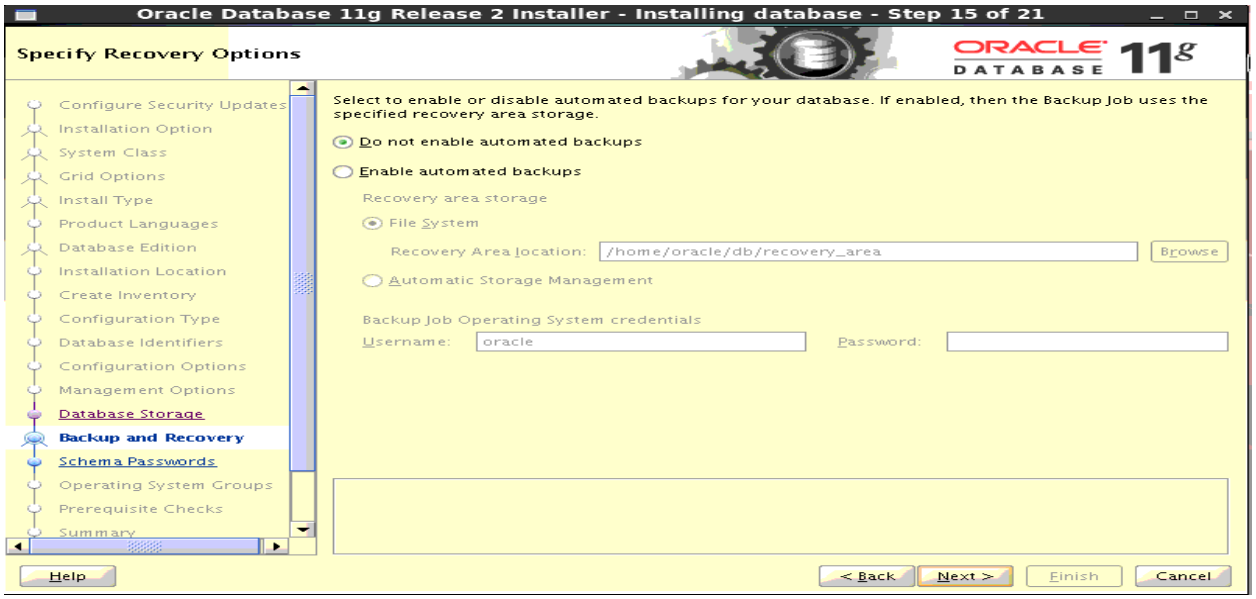

16) Select Character set as AL32UTF8.




17) Adjust the memory as per your environment.

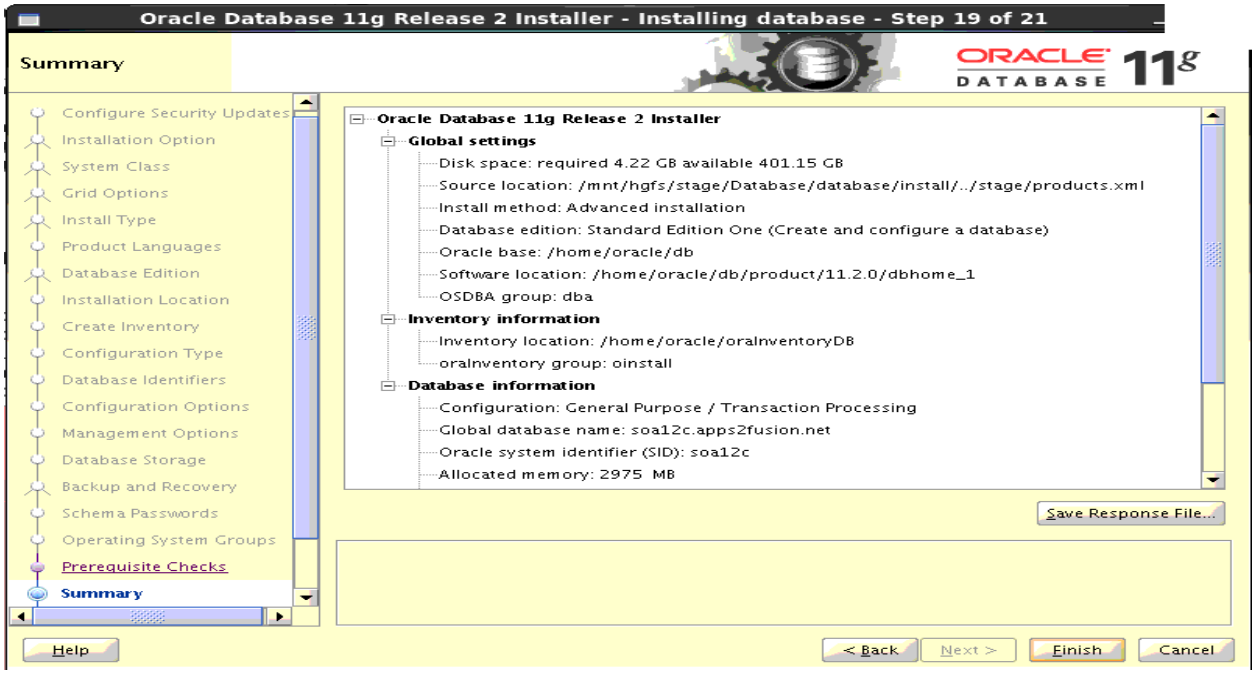



18) Click Next

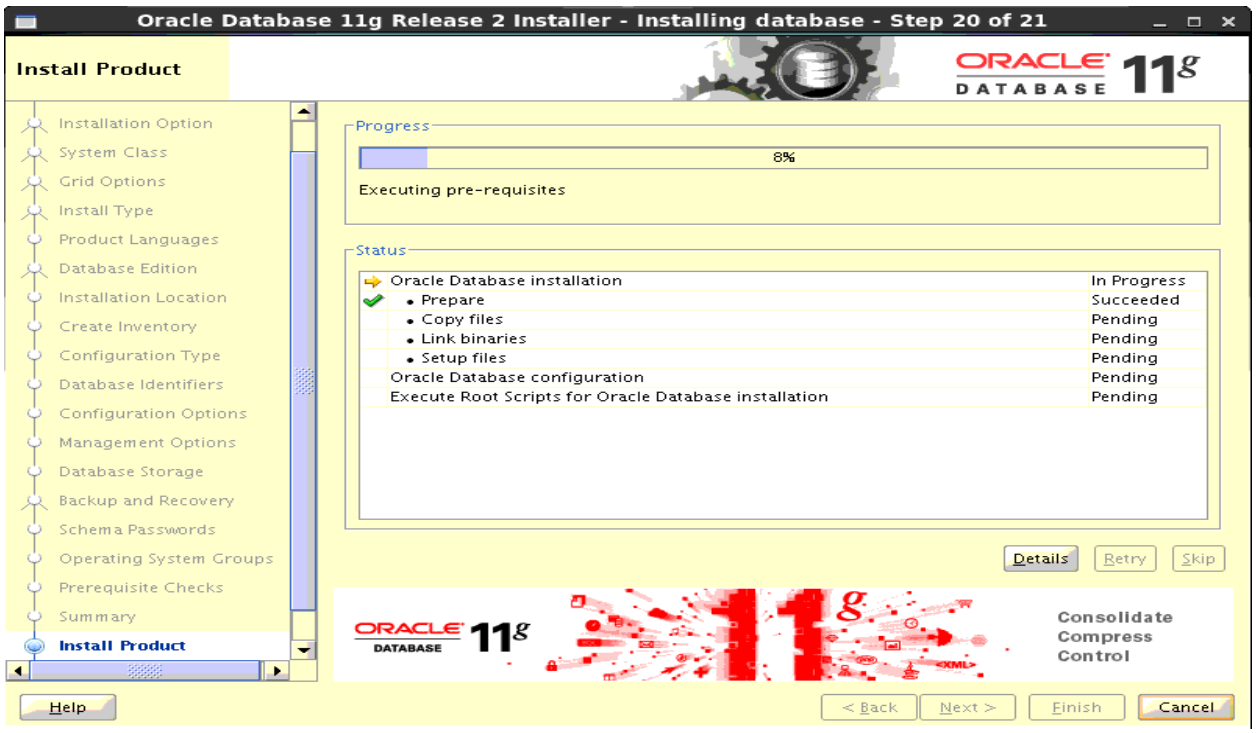


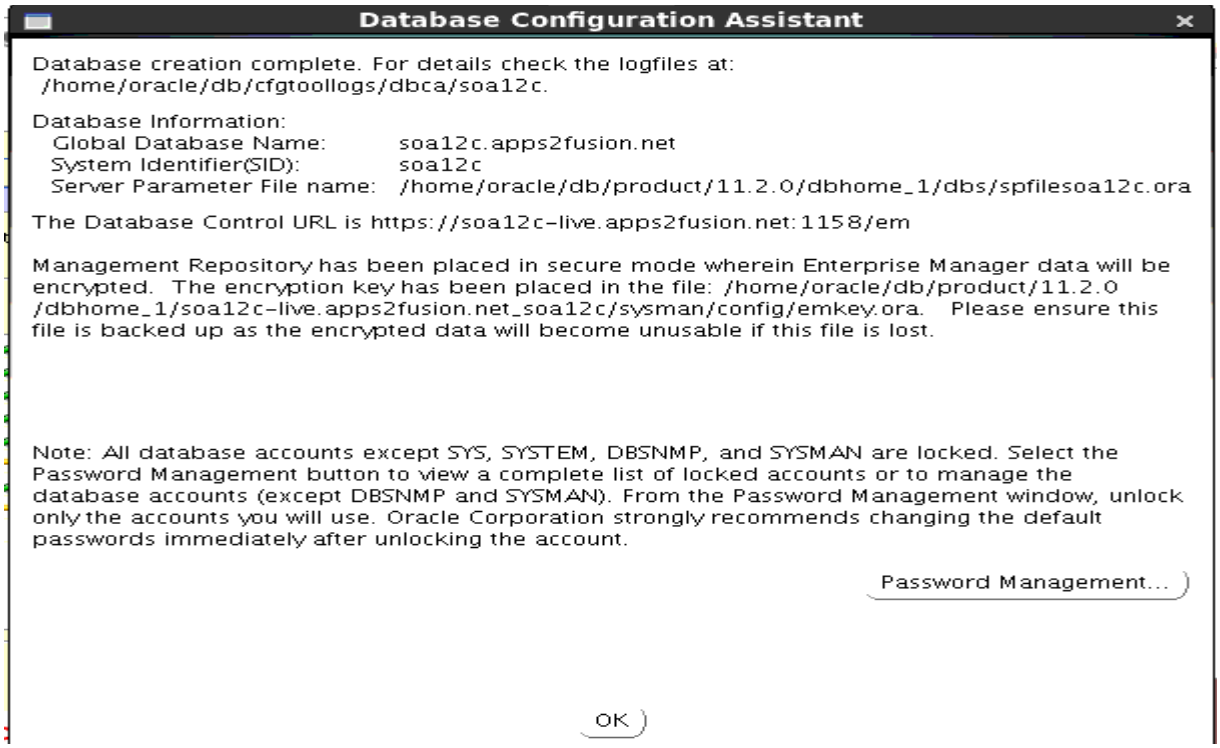

19) Click Next

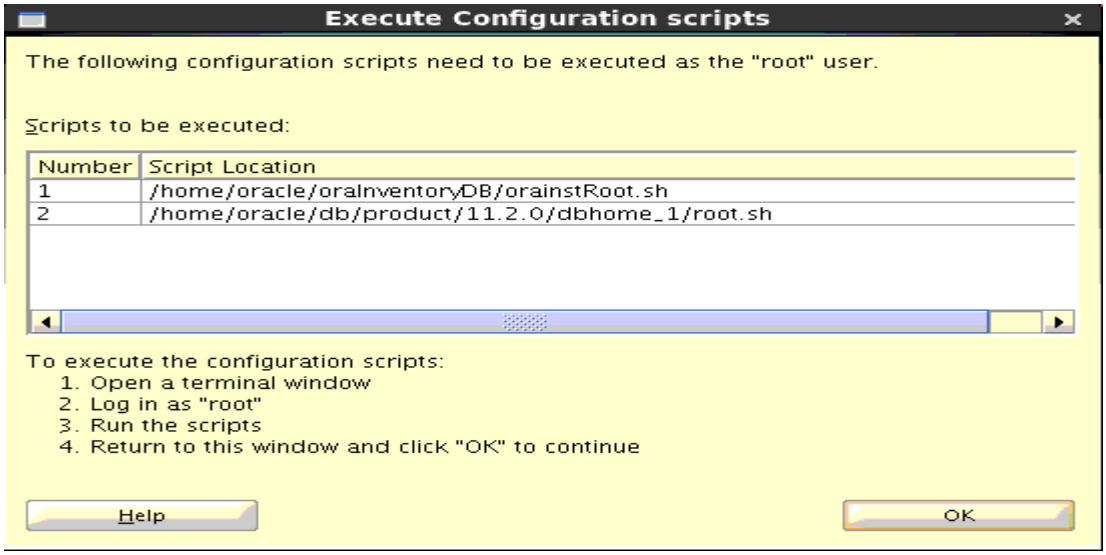
20) Select the group as oinstall and click Next.



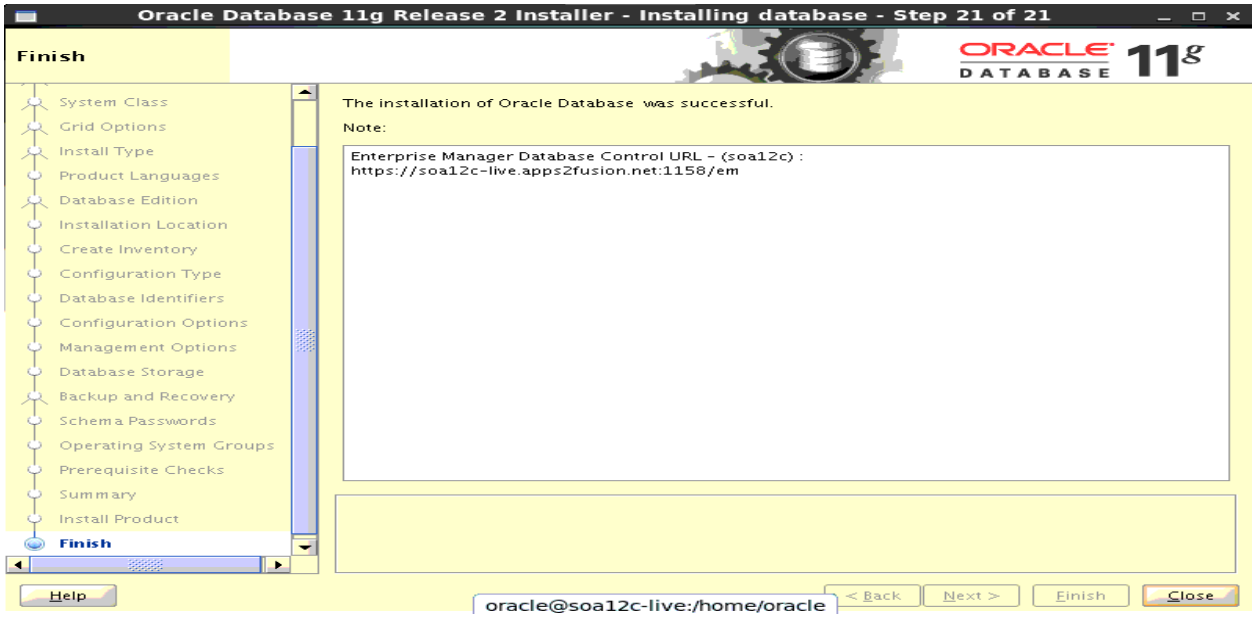

21) Click Finish.


Oracle Database 11g Release 2 Installer - Installing database - Step 20 of 21
Install Product
ORACLE DATABASE 11g
Installation Option
System Class
Grid Options
Install Type
Product Languages
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Management Options
Database Storage
Backup and Recovery
Schema Passwords
Operating System Groups
Prerequisite Checks
Summary
Install Product
Progress
8%
Executing pre-requisites
Status
Oracle Database installation In Progress
Prepare Succeeded
Copy files Pending
Link binaries Pending
Setup files Pending
Oracle Database configuration Pending
Execute Root Scripts for Oracle Database installation Pending
Details
Retry
Skip
Consolidate
Compress
Control
Help
< Back
Next >
Finish
Cancel


Database Configuration Assistant
Database creation complete. For details check the logfiles at:
/home/oracle/db/cfgtoollogs/dbca/soa12c.
Database Information:
Global Database Name: soa12c.apps2fusion.net
System Identifier(SID): soa12c
Server Parameter File name: /home/oracle/db/product/11.2.0/dbhome_1/dbs/spfilesoa12c.ora
The Database Control URL is https://soa12c-live.apps2fusion.net:1158/em
Management Repository has been placed in secure mode wherein Enterprise Manager data will be encrypted. The encryption key has been placed in the file: /home/oracle/db/product/11.2.0/dbhome_1/soa12c-live.apps2fusion.net_soa12c/sysman/config/emkey.ora. Please ensure this file is backed up as the encrypted data will become unusable if this file is lost.
Note: All database accounts except SYS, SYSTEM, DBSNMP, and SYSMAN are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts (except DBSNMP and SYSMAN). From the Password Management window, unlock only the accounts you will use. Oracle Corporation strongly recommends changing the default passwords immediately after unlocking the account.
Password Management...
OK




22) Run the above scripts as root user and then click Ok.



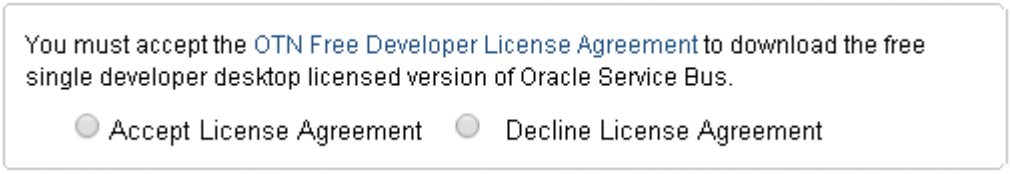

23) Database is installed successfully and ready to use. Click Close.

# Oracle SOA 12c Installation

**Step 1:** Download Oracle SOA 12c installer.

Go to below link.
http://www.oracle.com/technetwork/middleware/soasuite/downloads/index.html?ssSourceSiteId=opn

Accept the License Agreement.




Click on Download link to download the installer.

You will see one jar file downloaded to your system. Extract that jar file and you will see below two executable jar files.

- fmw_12.1.3.0.0_soa_quickstart
- fmw_12.1.3.0.0_soa_quickstart2

We need to run these executable jar files from command prompt, for that we require supported JDK You can download latest jdk from below link.

http://www.oracle.com/technetwork/java/javase/downloads/index.html

We are using **jdk1.7.0_71**

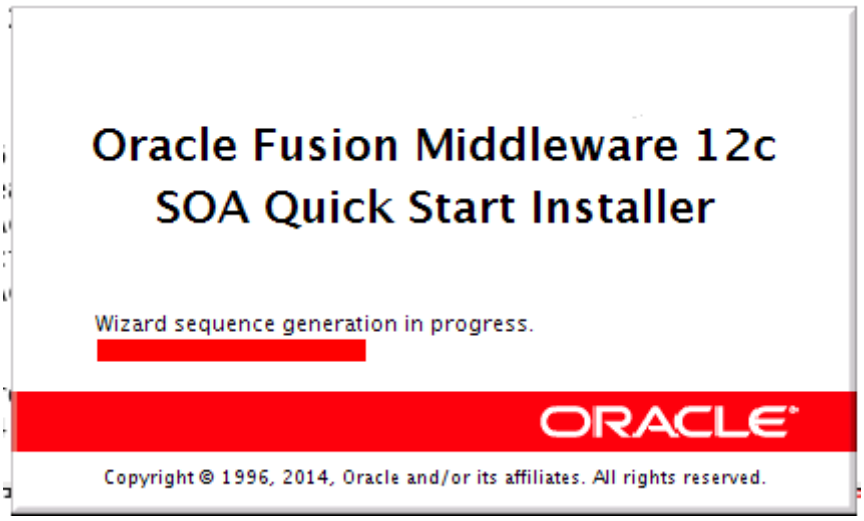
**Now run the below command by properly setting your JAVA_HOME and PATH variable.**

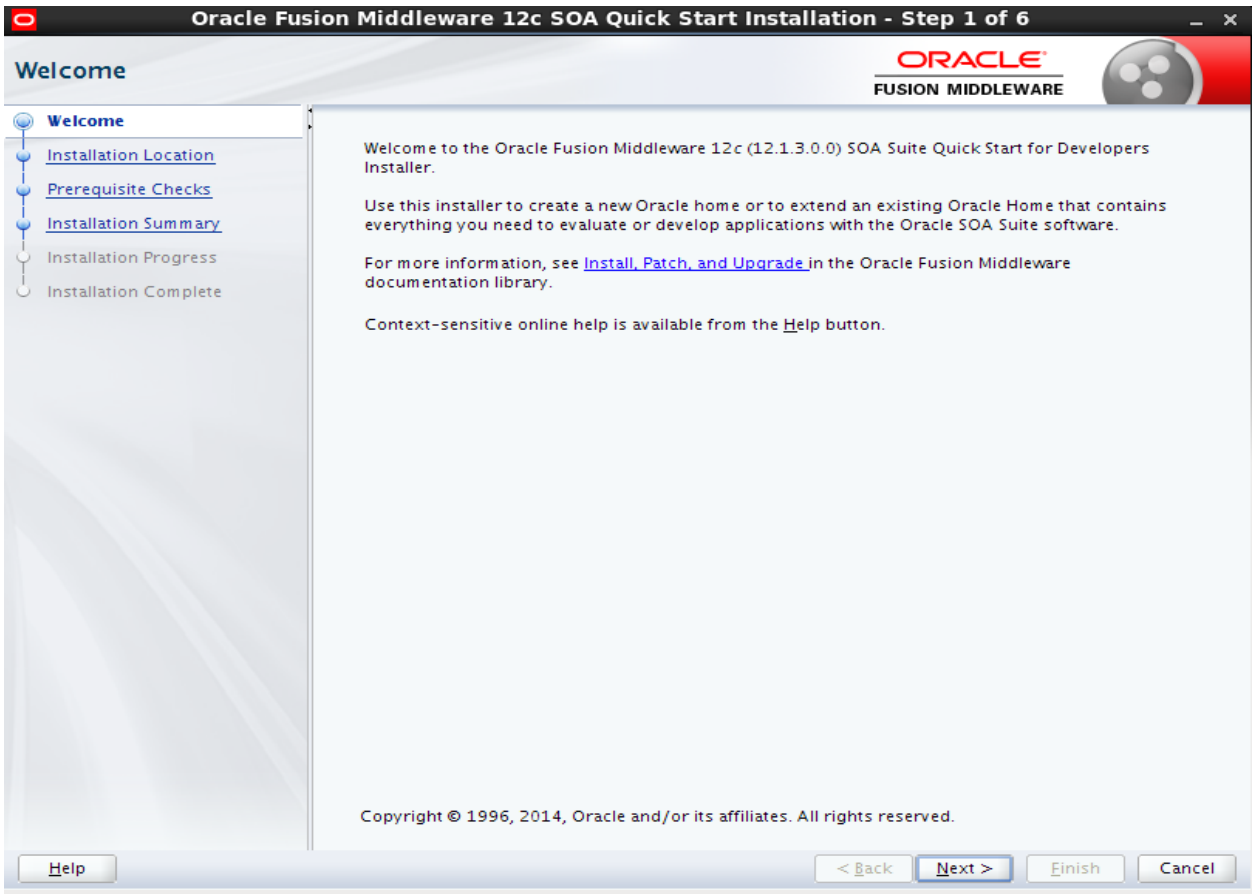
```
[oracle@soa12c-live stage]$ java -jar fmw_12.1.3.0.0_soa_quickstart.jar
Launcher log file is /tmp/OraInstall2014-12-16_09-28-24AM/launcher2014-12-16_09-28-24AM.log.
Extracting files.....................................................................................
Starting Oracle Universal Installer

Checking if CPU speed is above 300 MHz.   Actual 2666.620 MHz    Passed
Checking monitor: must be configured to display at least 256 colors.   Actual 16777216    Passed
Checking swap space: must be greater than 512 MB.   Actual 16252924 MB    Passed
Checking if this platform requires a 64-bit JVM.   Actual 64    Passed (64-bit not required)
Checking temp space: must be greater than 300 MB.   Actual 38923 MB    Passed


Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2014-12-16_09-28-24AM
```

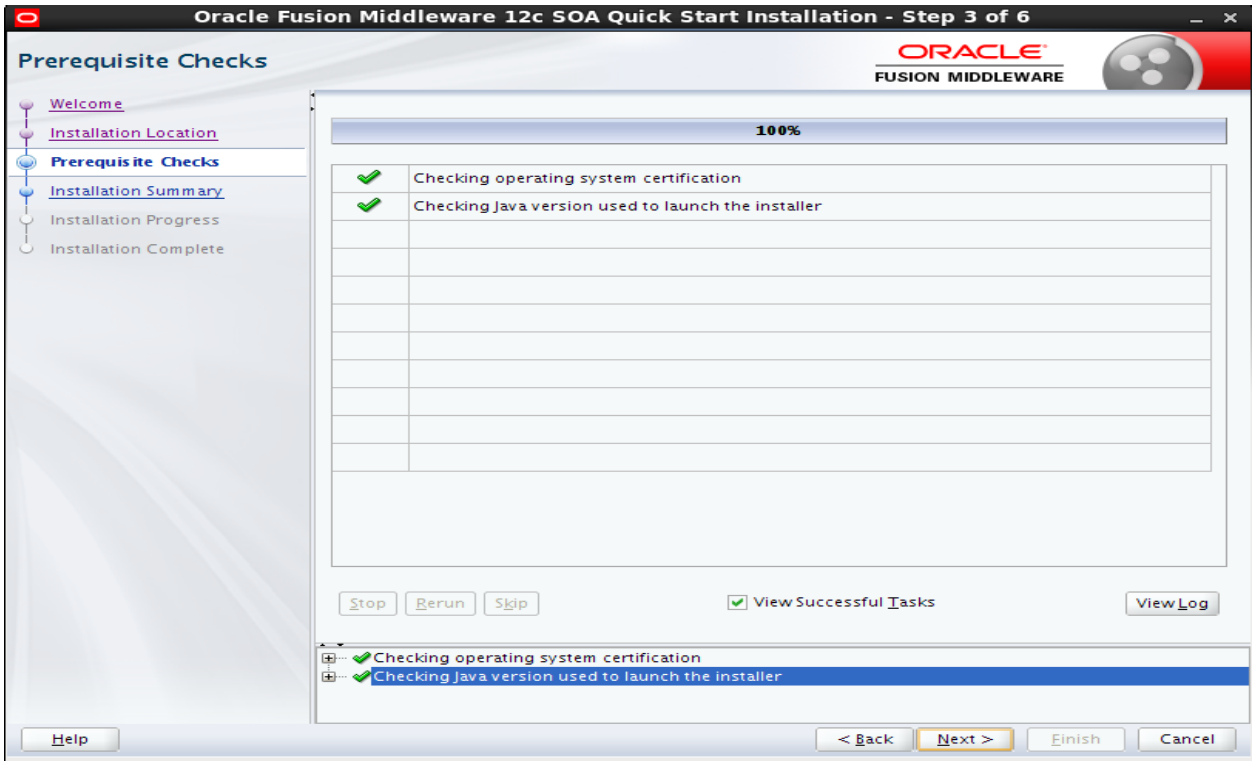
1) Give the Inventory Location and click Ok


Oracle Fusion Middleware 12c
SOA Quick Start Installer
Wizard sequence generation in progress.
ORACLE
Copyright © 1996, 2014, Oracle and/or its affiliates. All rights reserved.

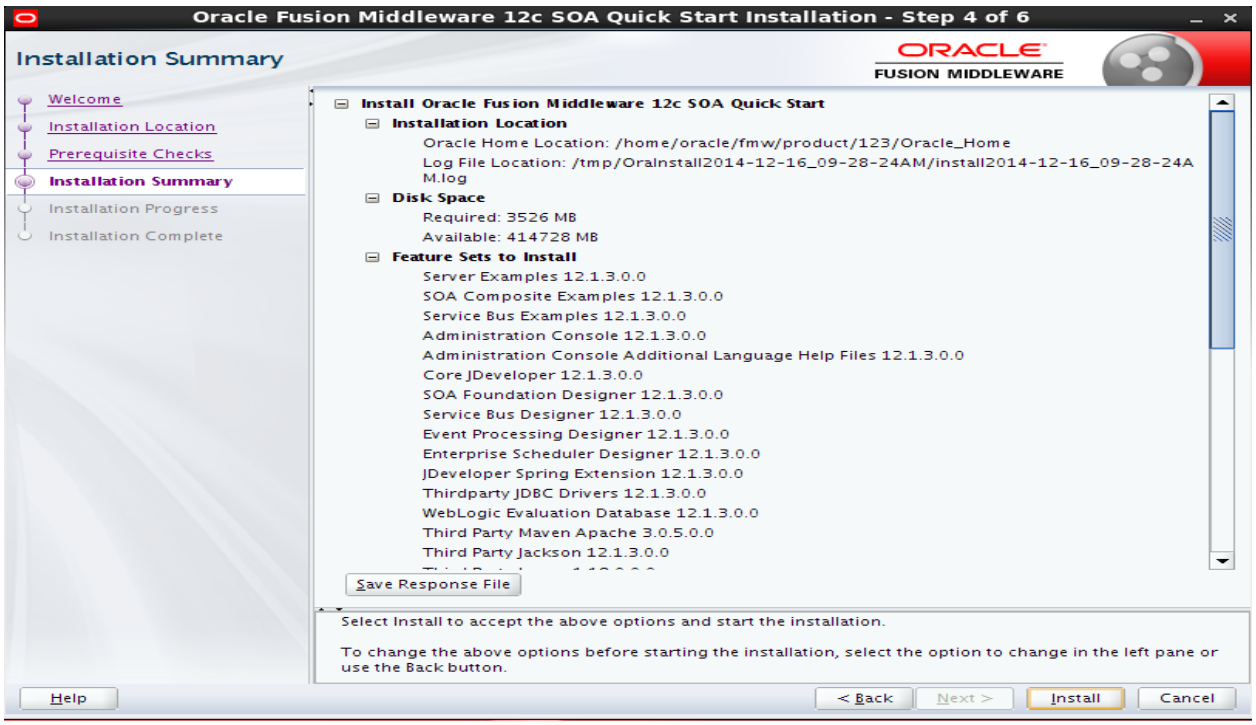

Oracle Fusion Middleware 12c SOA Quick Start Installation - Step 1 of 6
Welcome
ORACLE
FUSION MIDDLEWARE
Welcome
Installation Location
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Welcome to the Oracle Fusion Middleware 12c (12.1.3.0.0) SOA Suite Quick Start for Developers Installer.
Use this installer to create a new Oracle home or to extend an existing Oracle Home that contains everything you need to evaluate or develop applications with the Oracle SOA Suite software.
For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Context-sensitive online help is available from the Help button.
Copyright © 1996, 2014, Oracle and/or its affiliates. All rights reserved.
Help
< Back
Next >
Finish
Cancel

2) Click Next

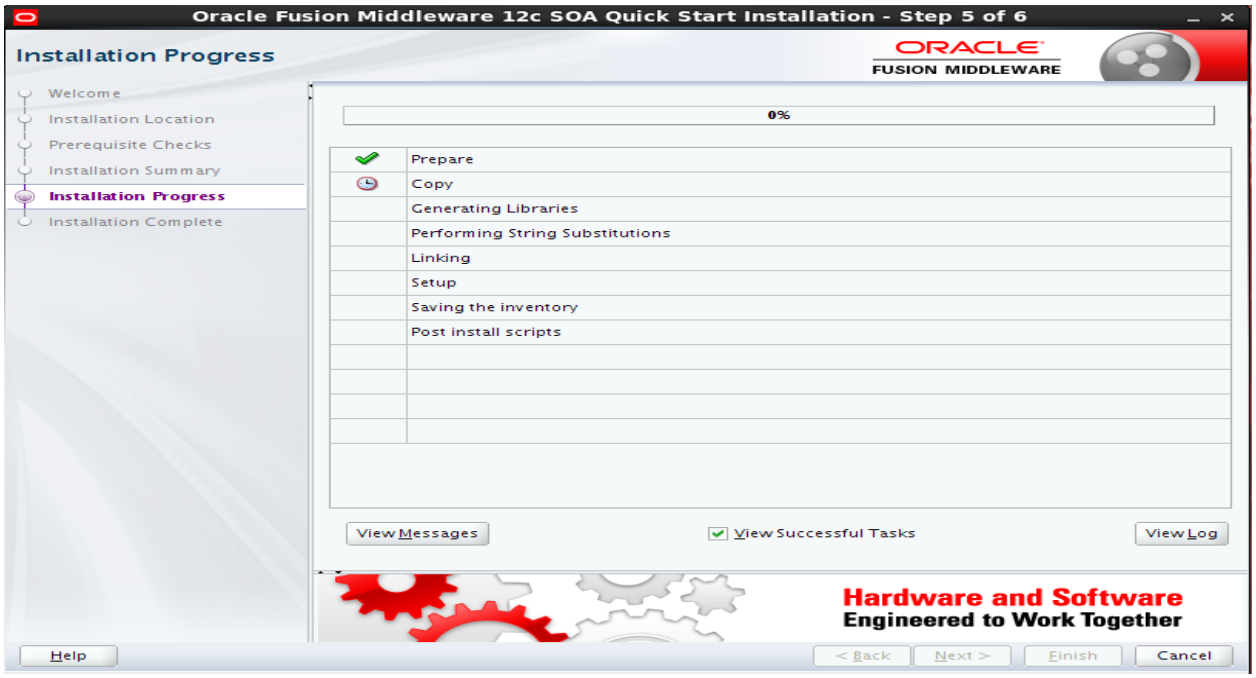
3) Give Orade Home location and click Next.

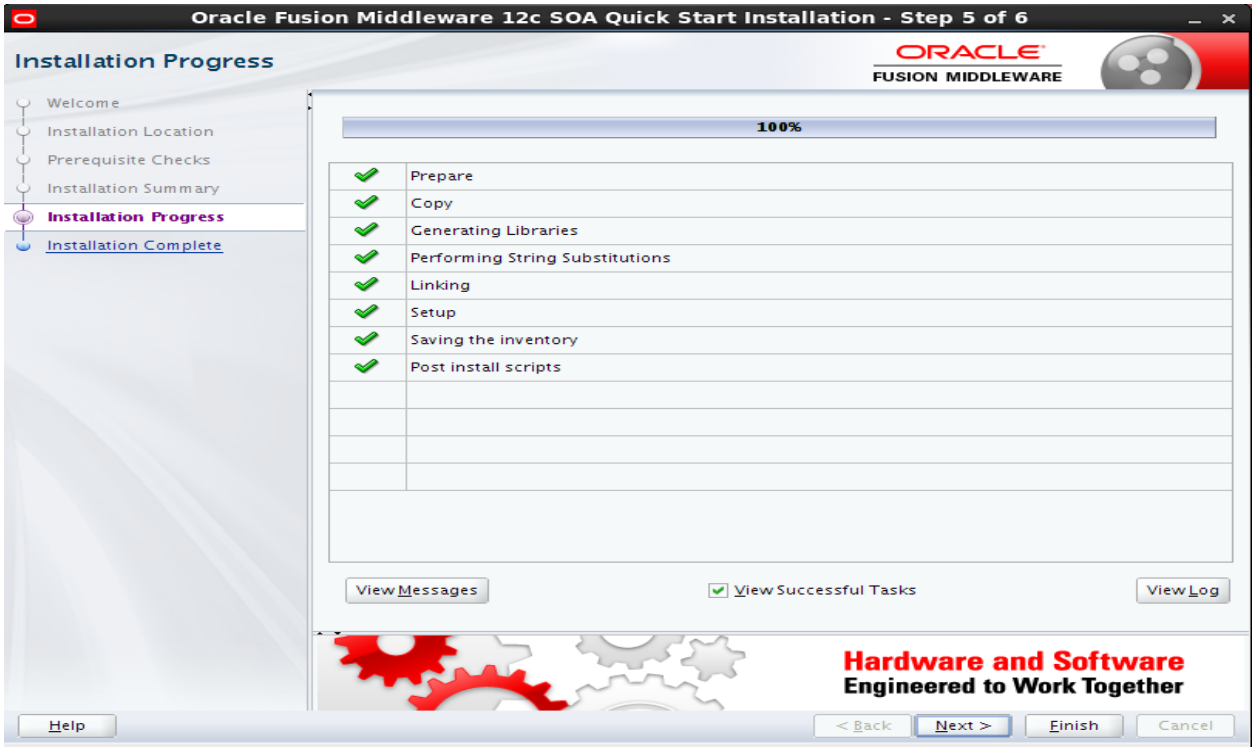


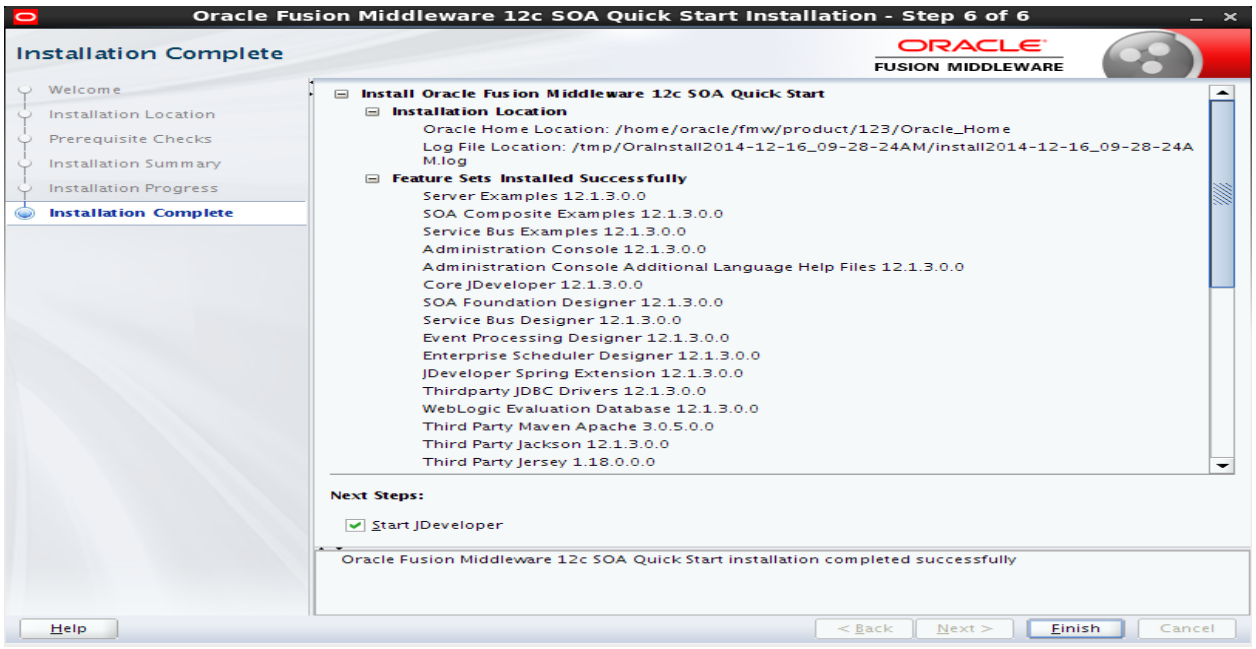

4) Once Pre-requisite checks are completed. Click Next.




5) Click Install.





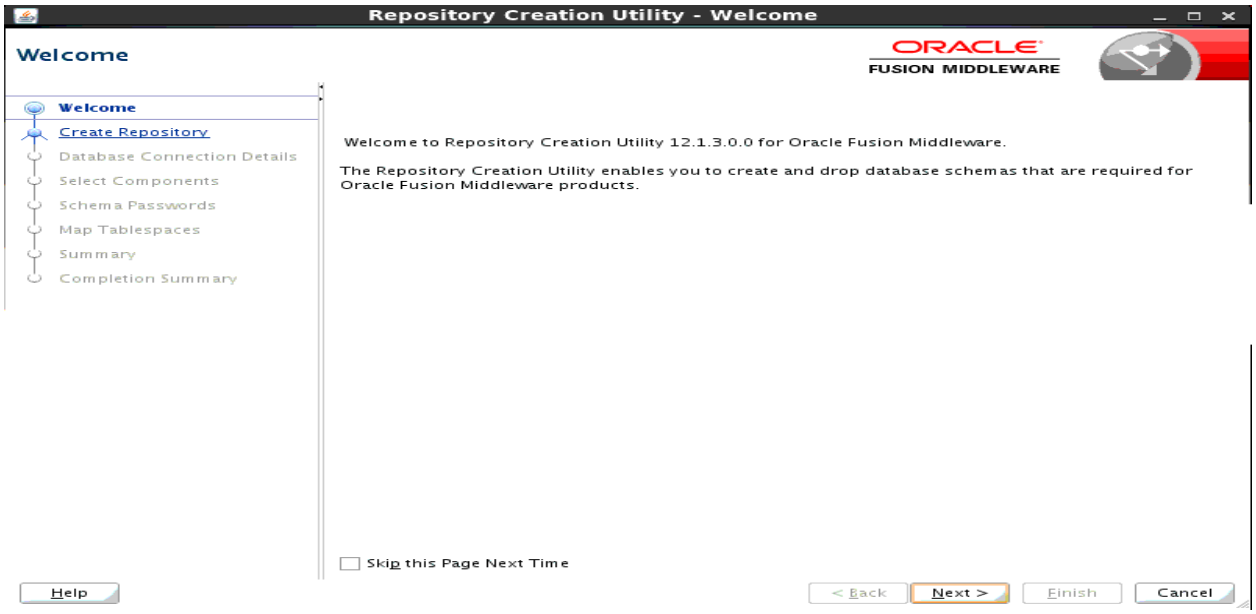




6) Once the Installation is completed. Click Finish.

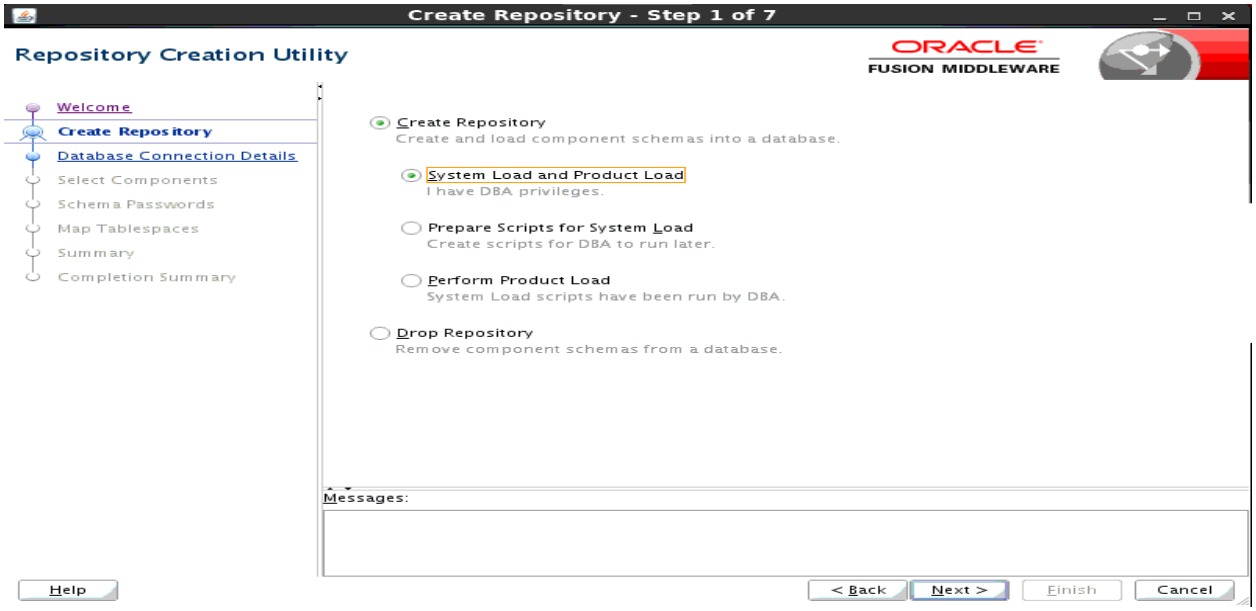
# Run RCU to create schema

1) Go to $ORACLE_HOME/oracle_common/bin

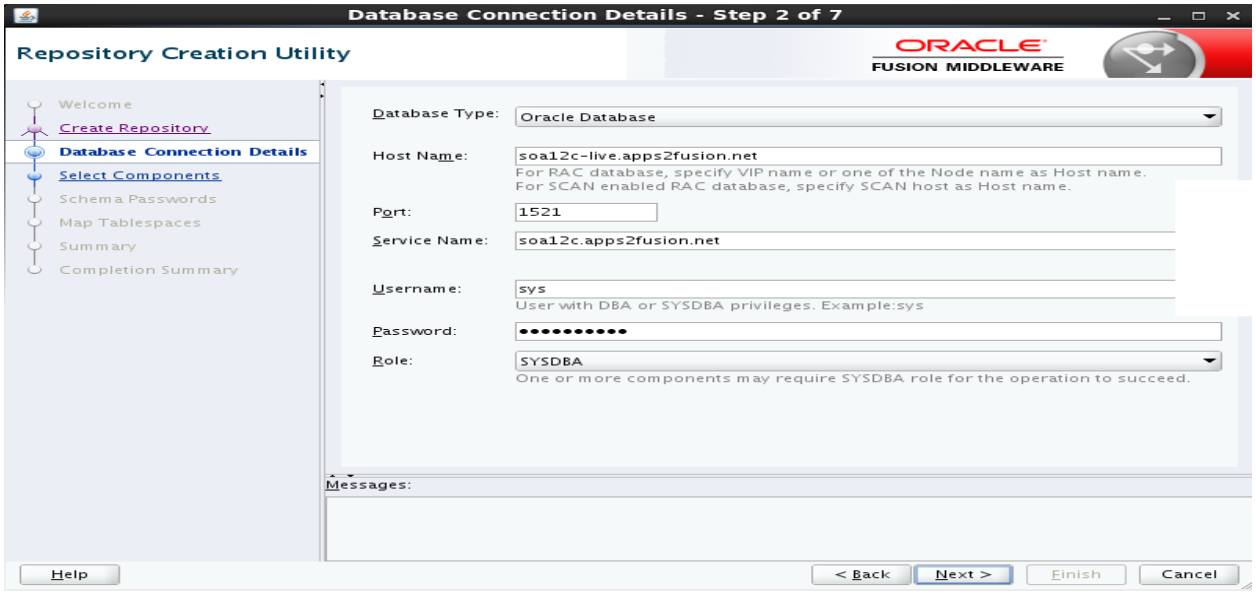
```
./rcu
```



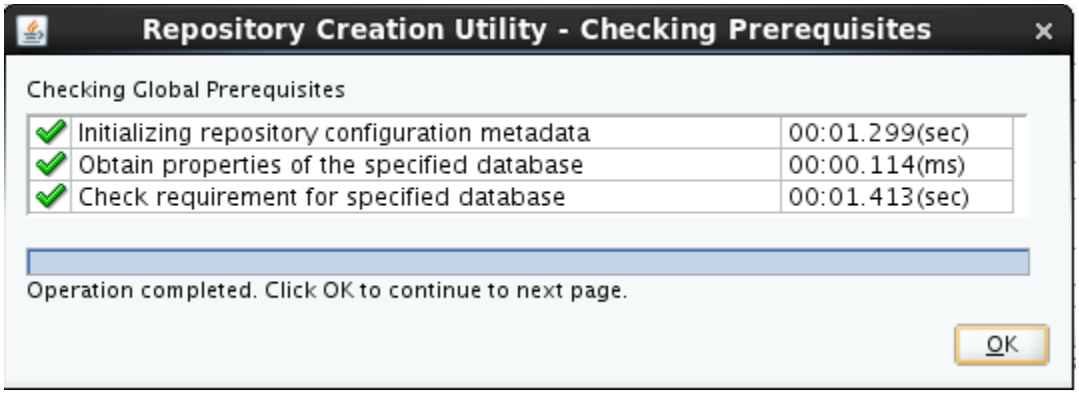

2) Click Next



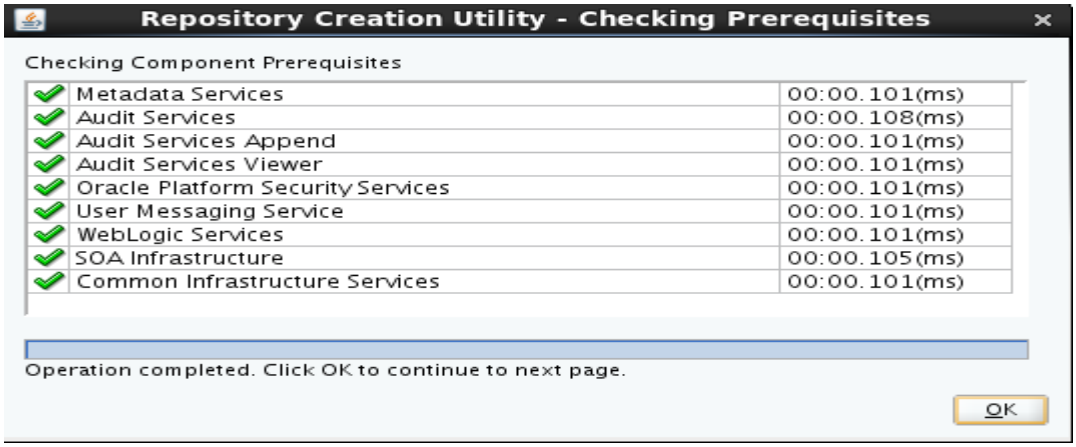

3) Select Create Repository.

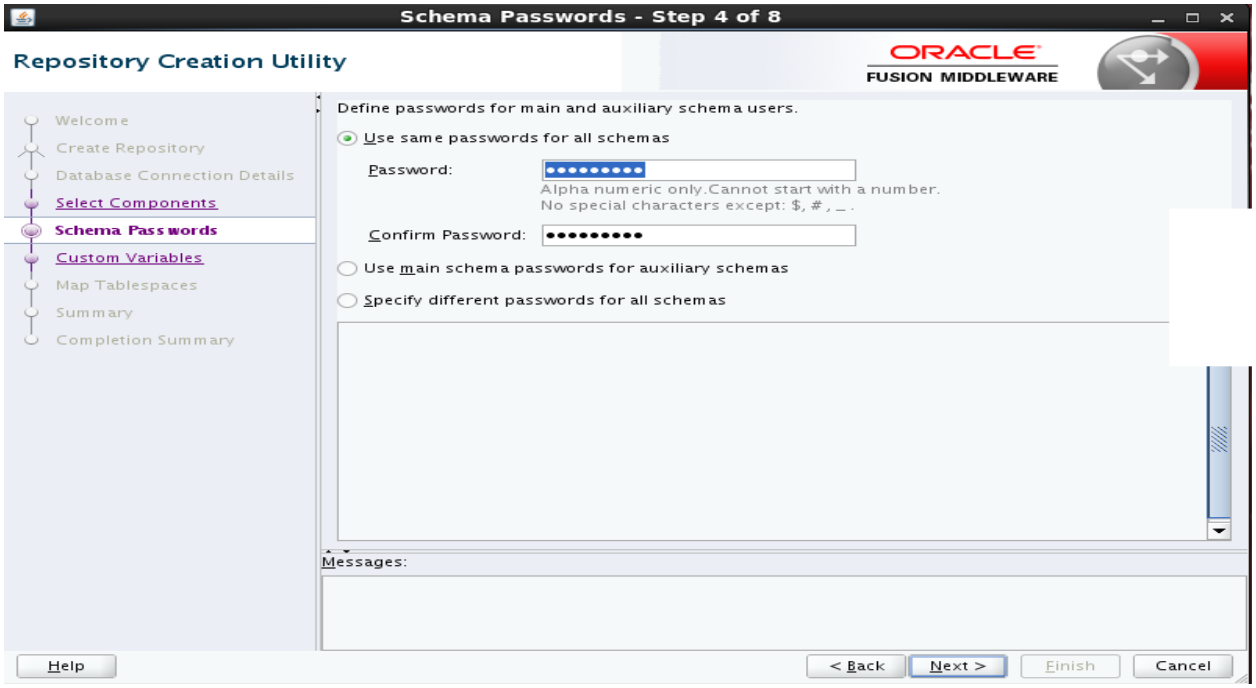



4) Give Database Details and click Next.

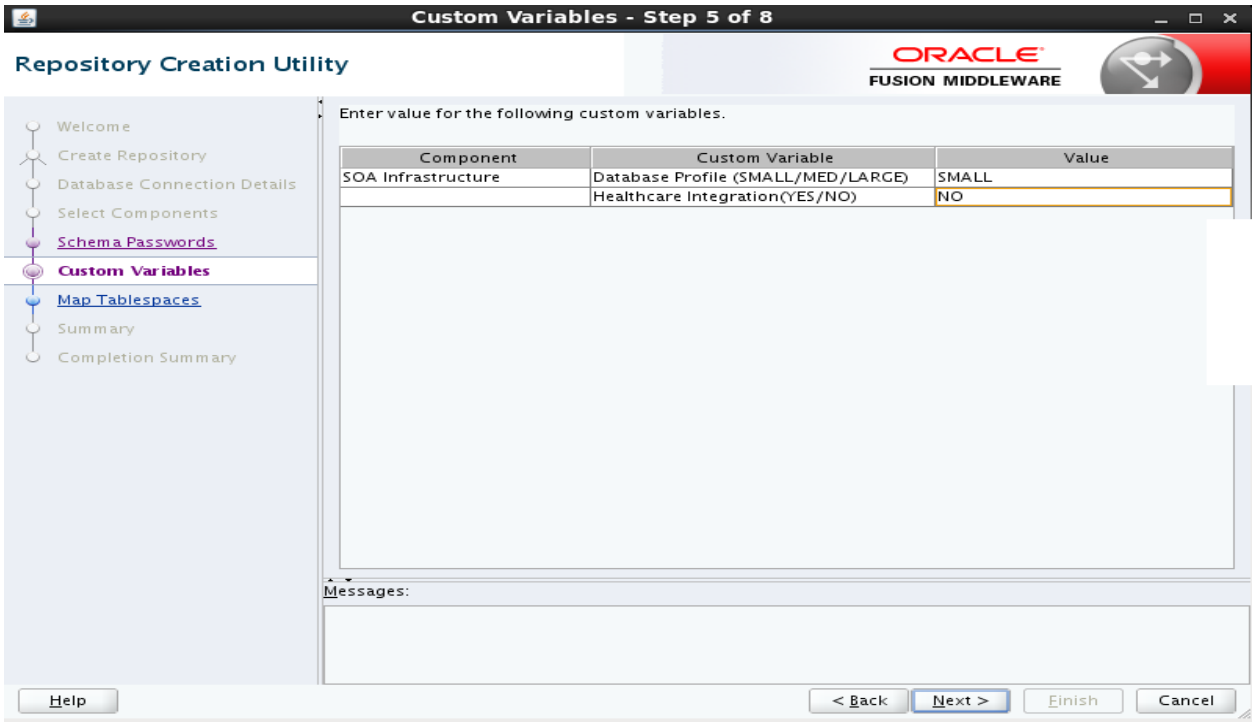



5) Select SOA Infrastructure Schema, MDS schema will get auto selected.

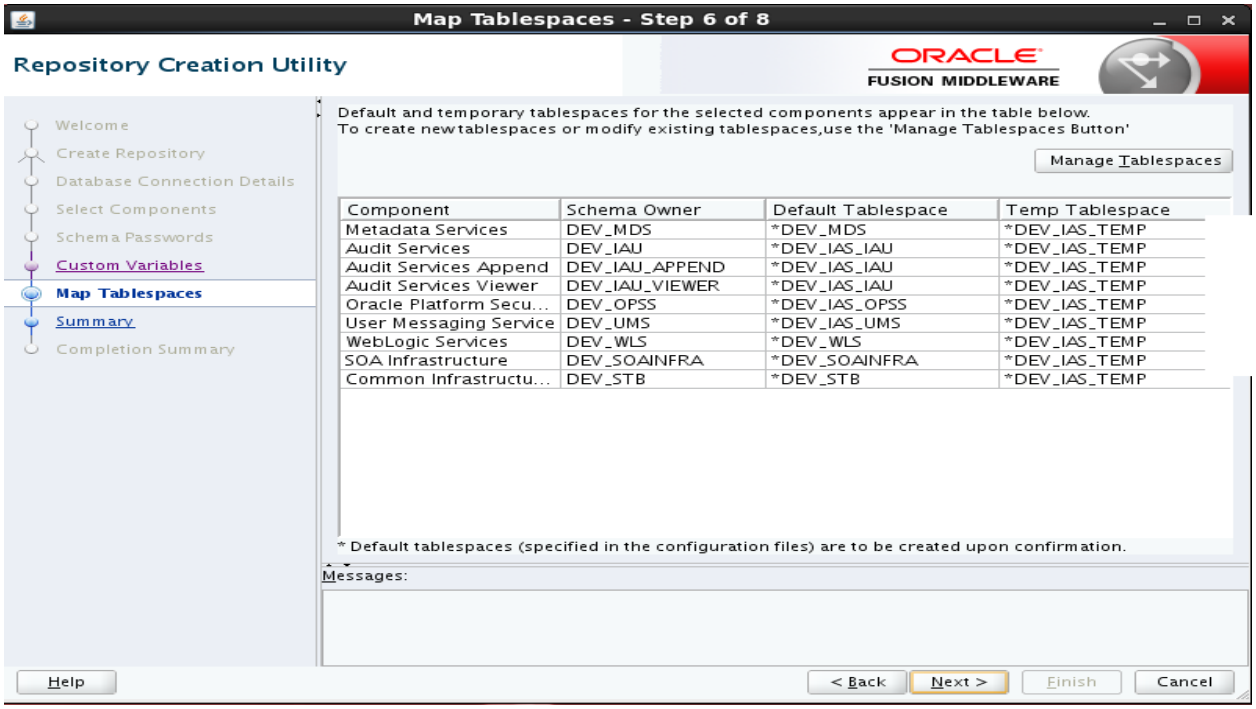





6) Give common password for all the schema.

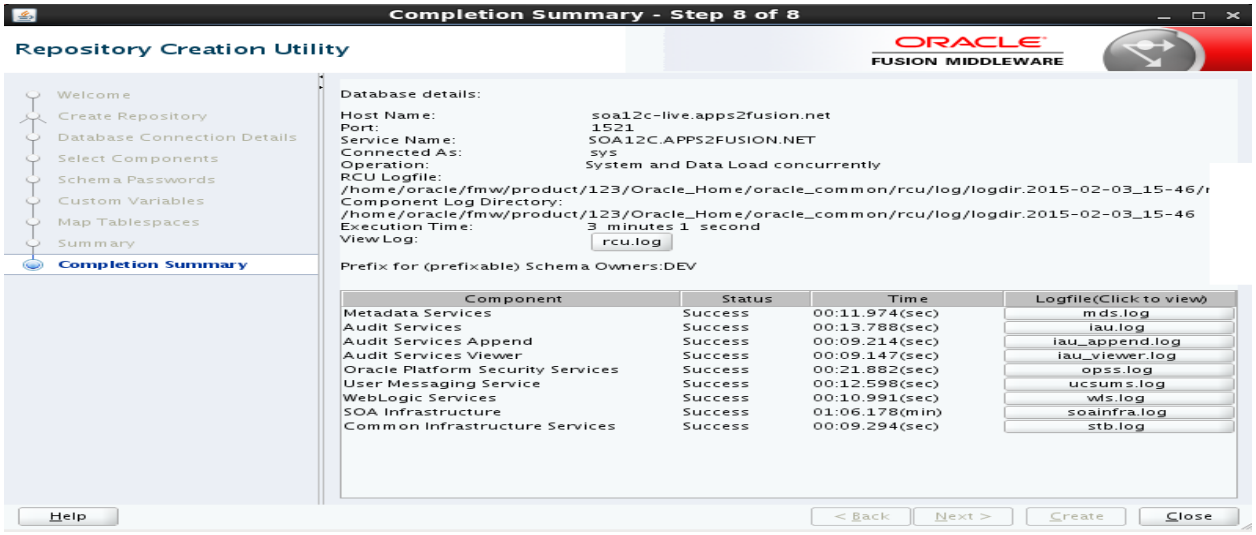



7) Leave default and click Next.




8) Click Next

9) Click Create, it will create the tablespace in the Database.



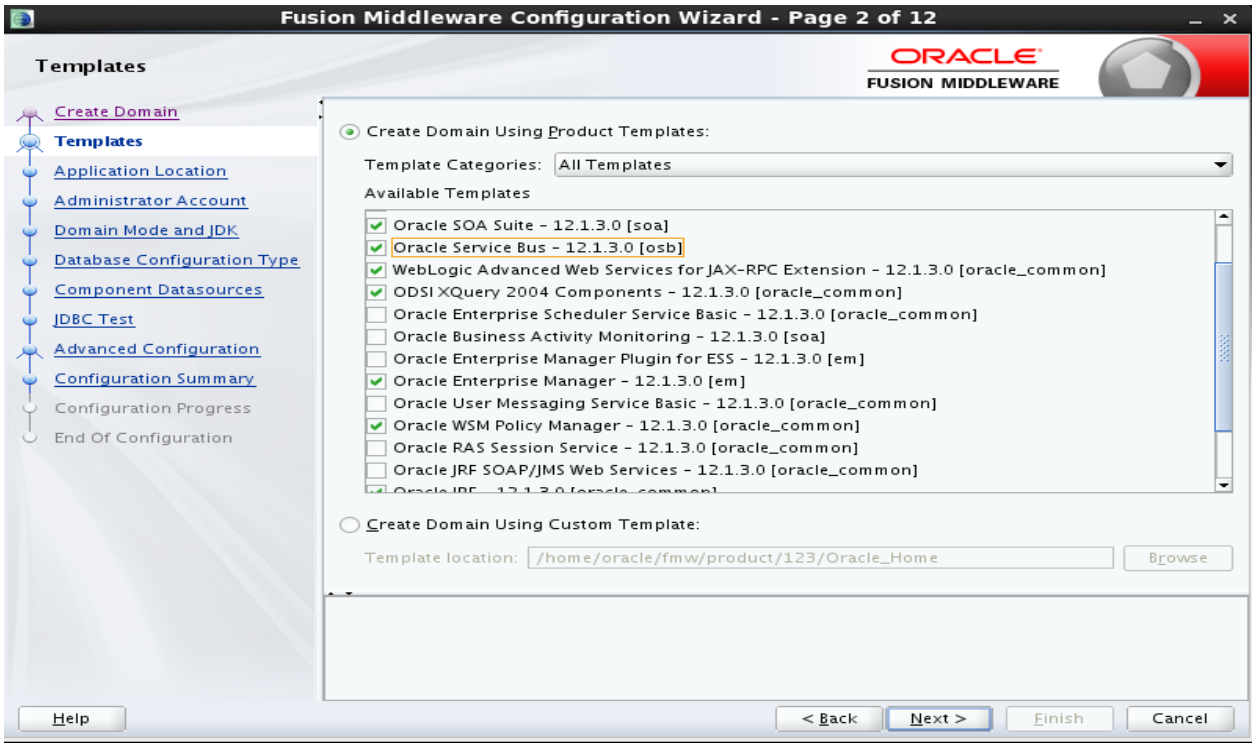

10) Once created, click Close.

# Create a domain

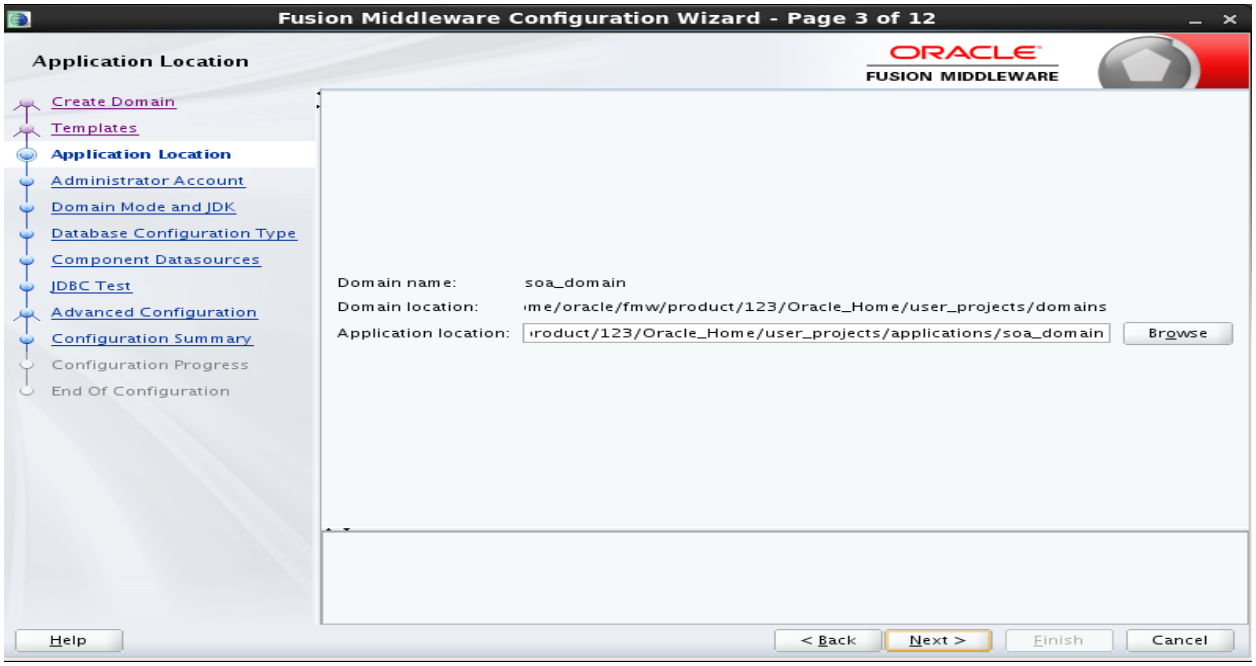
1) Go to $ORACLE_HOME/oracle_common/common/bin

```
./config.sh
```

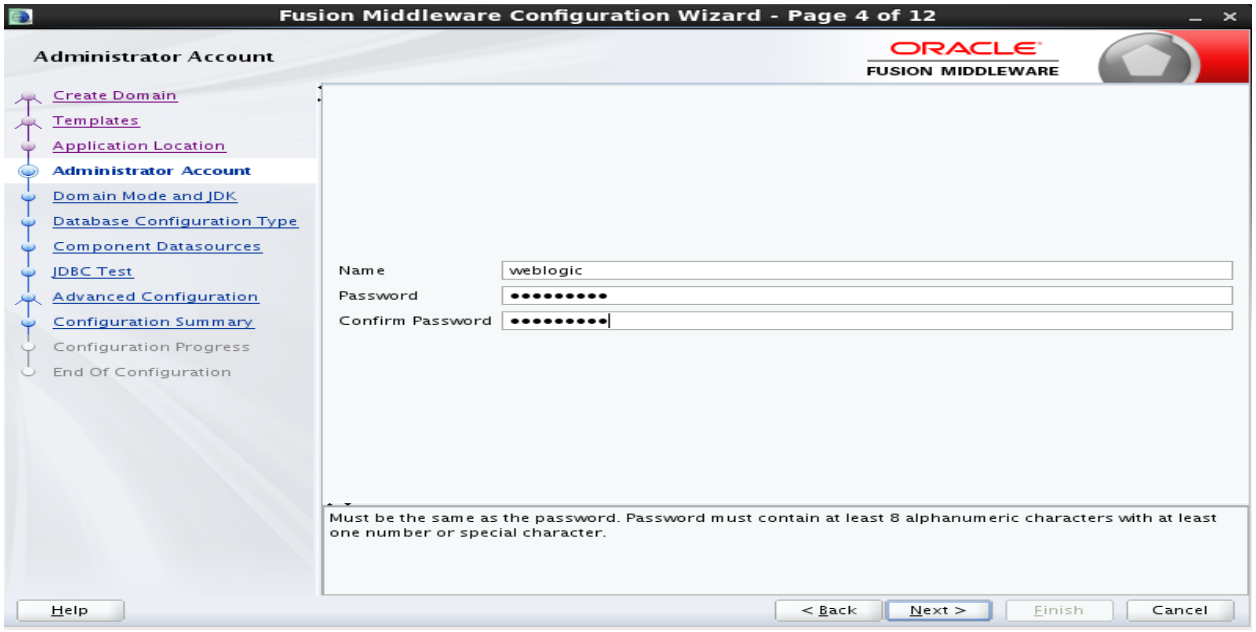
2) Select 'Create a new Domain' and give the domain location (default).



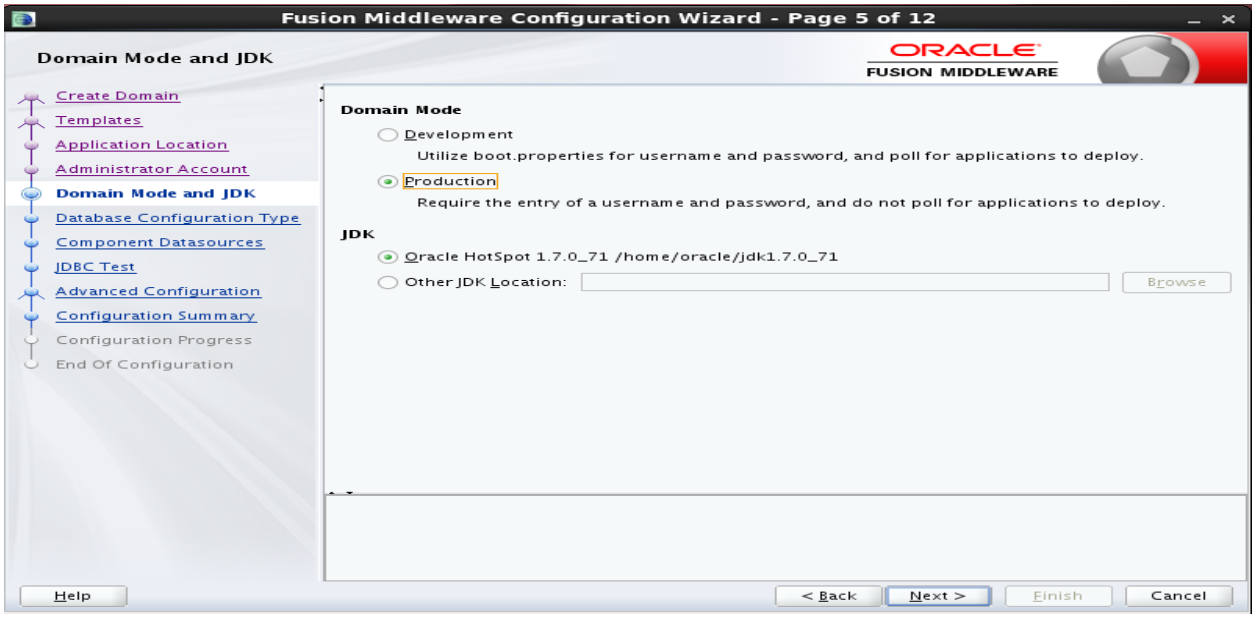

3) Select the selection as shown. We are also including OSB (optional).

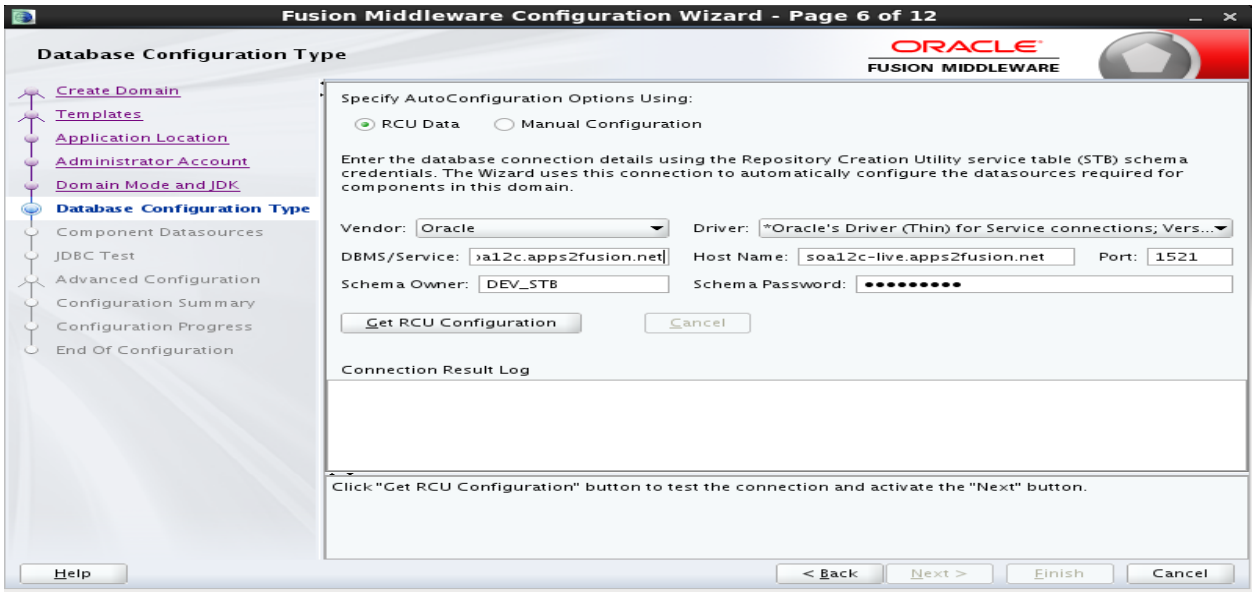



4) Leave default. Click Next.

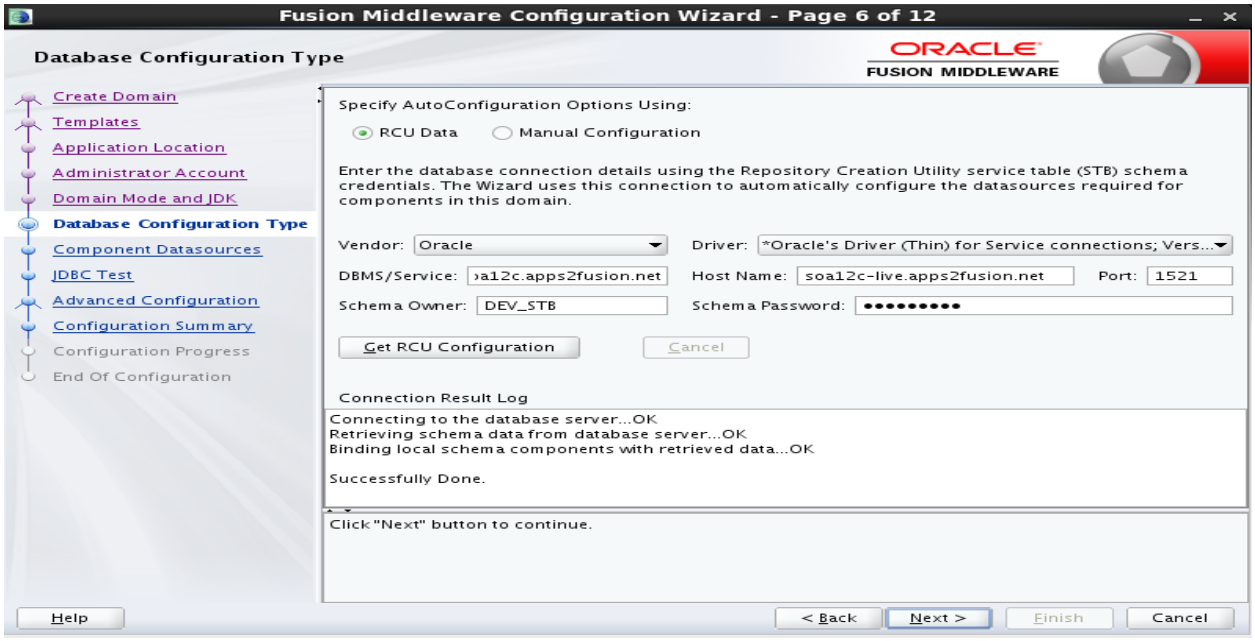


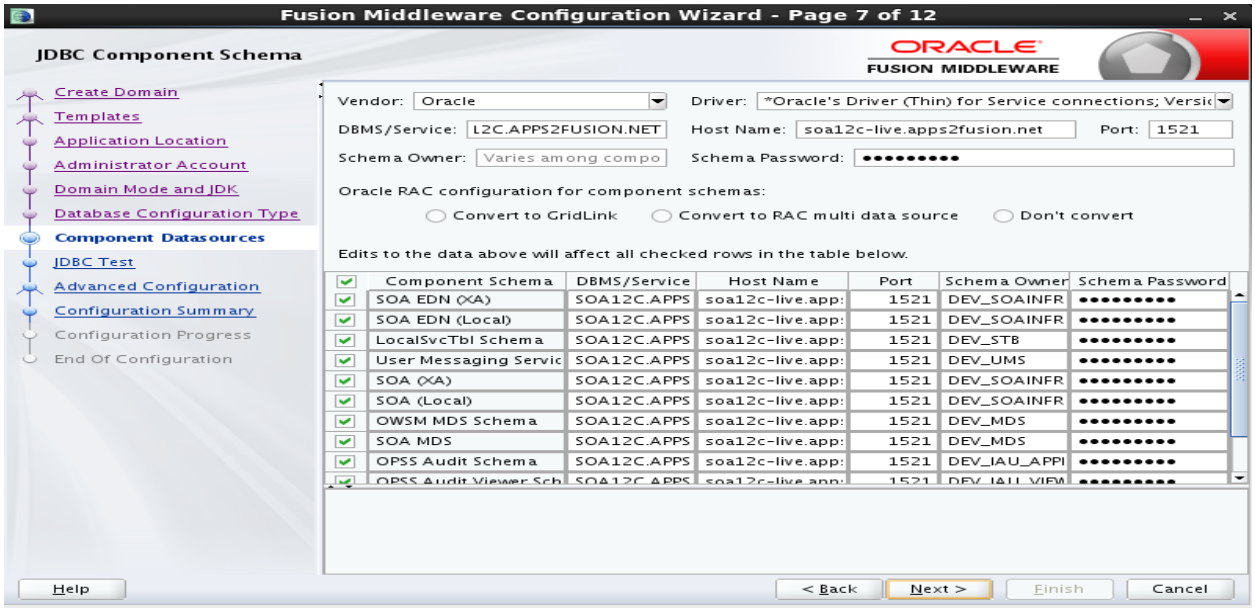

5) Give Username/password for the Administrator. Kindly keep this password safe.



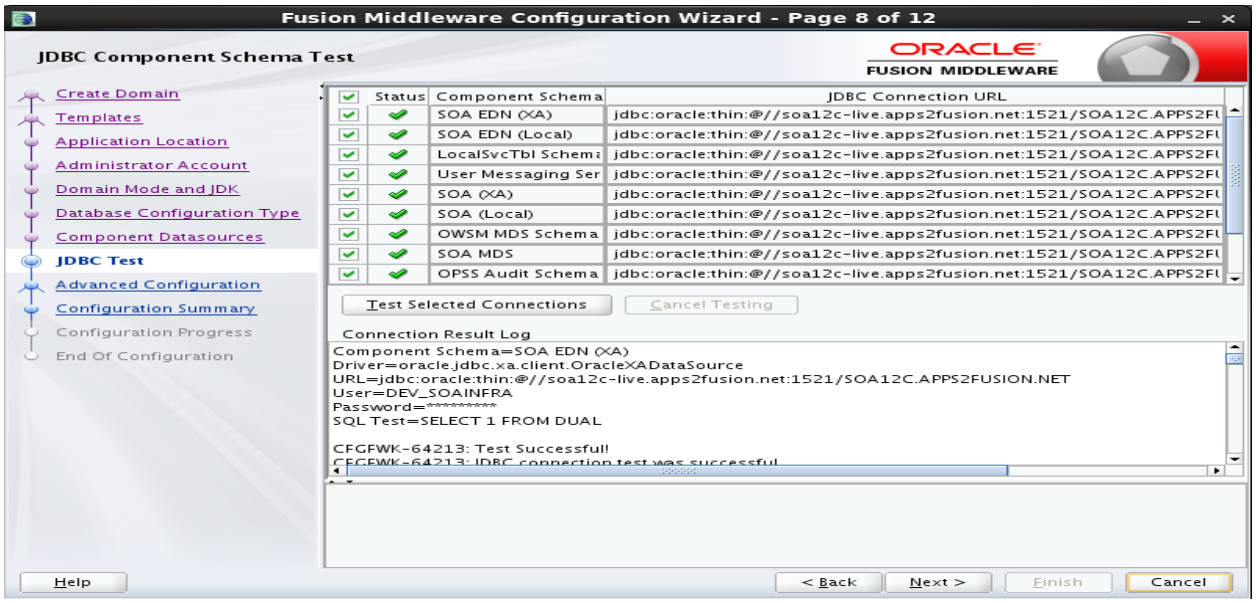




6) Load the schema's by giving the Database details.

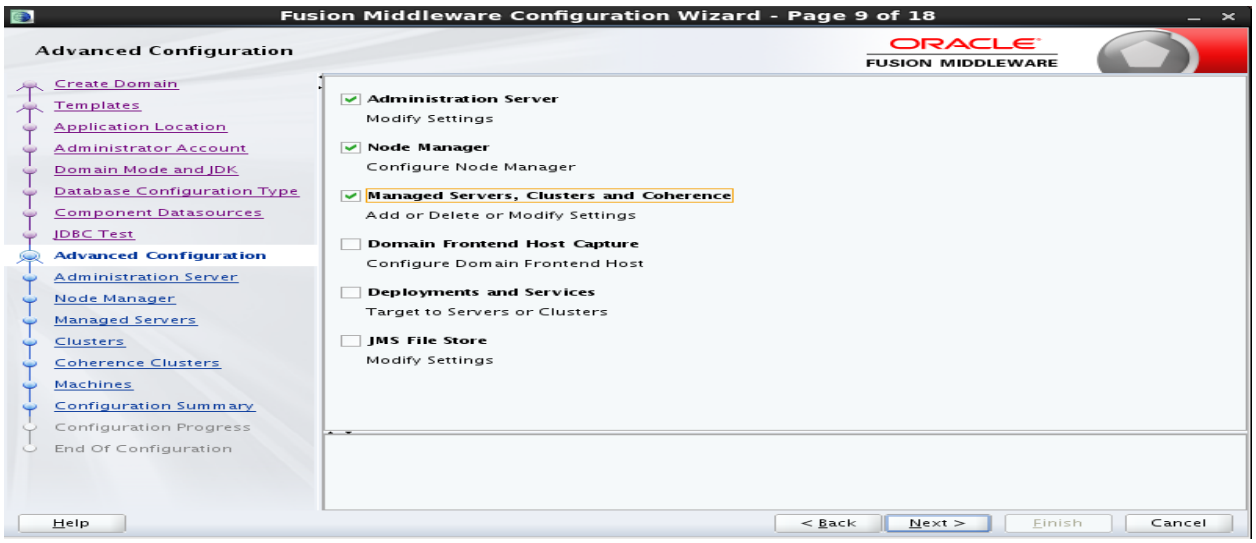


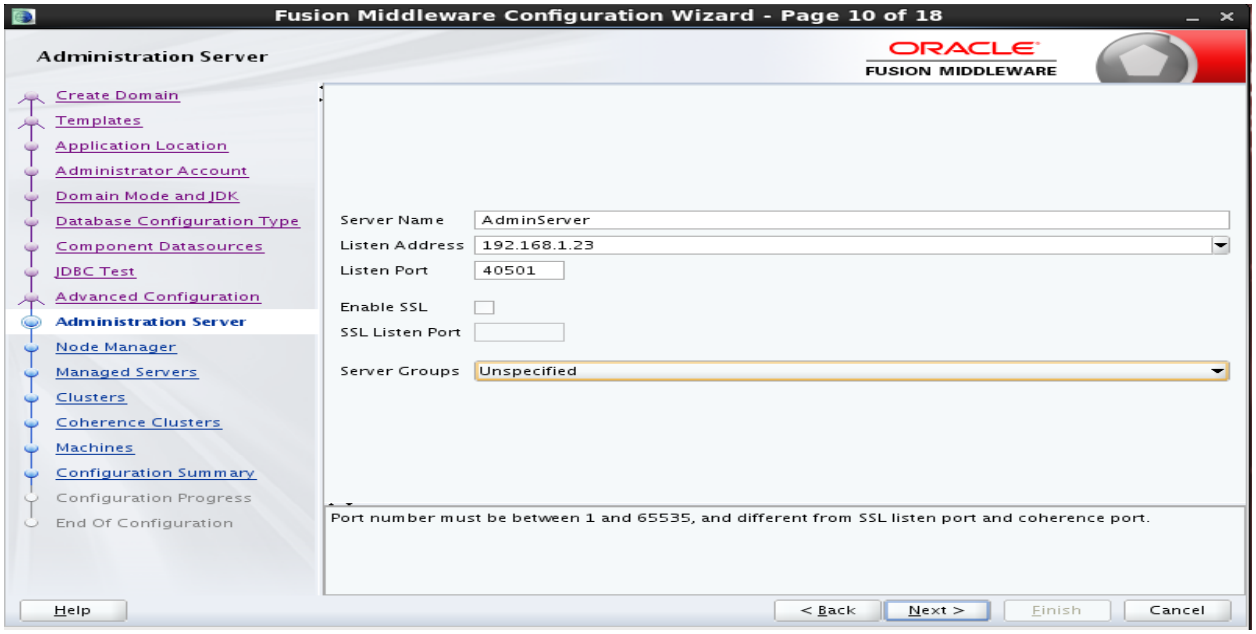

7) Give the correct details as shown, click Next.



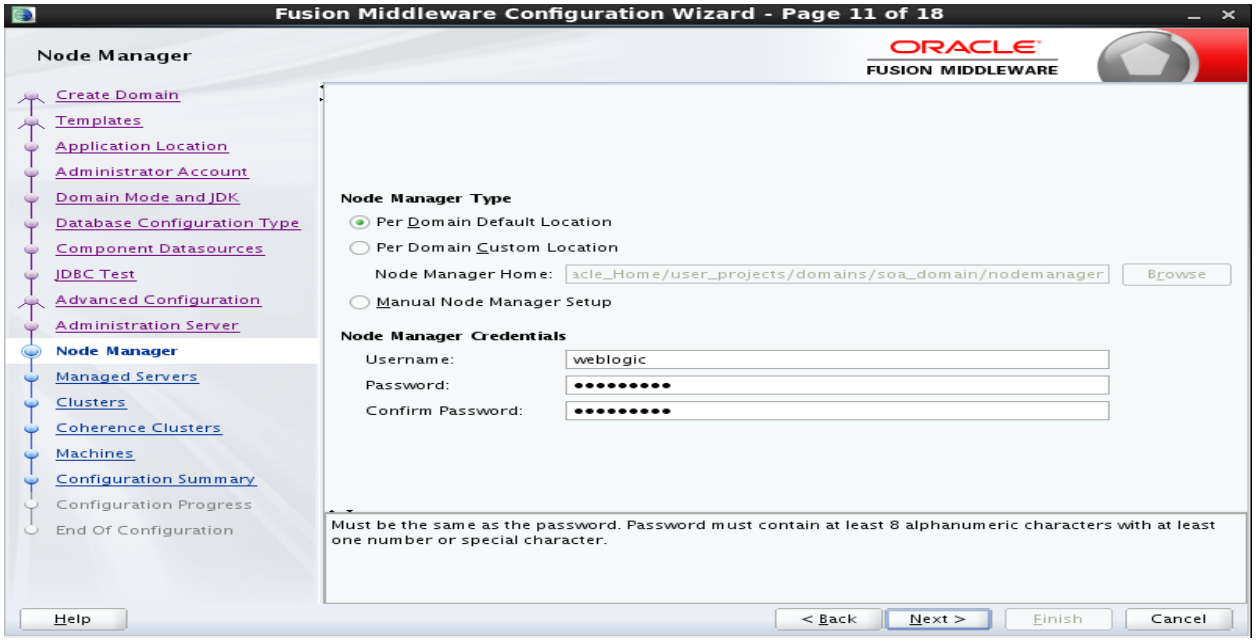

8) Once all Test are successful, Click Next.



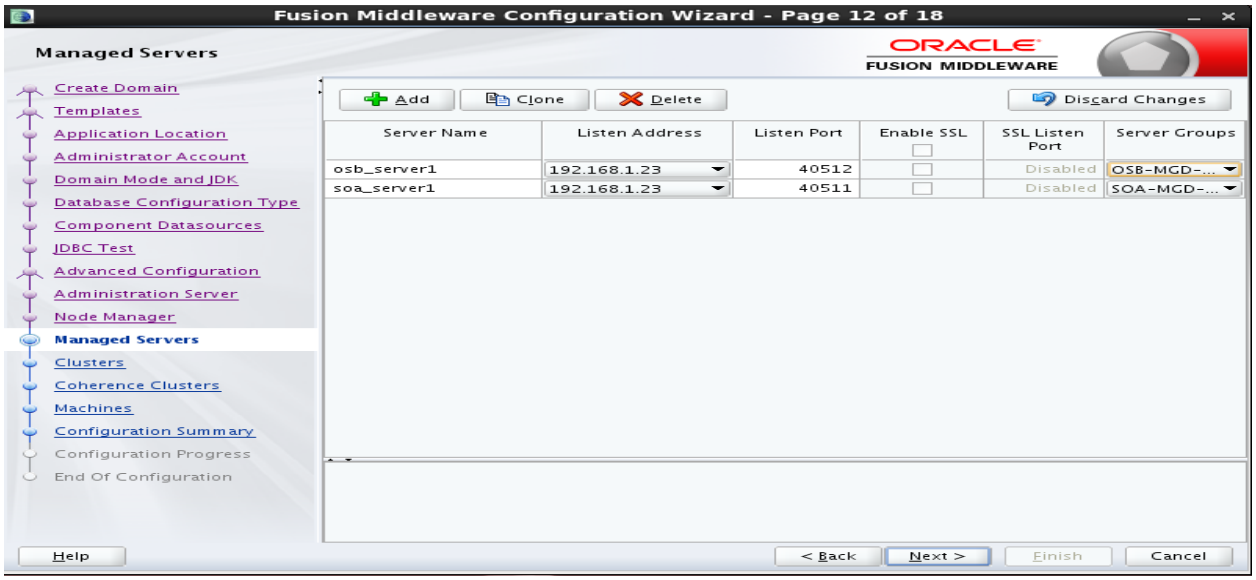

9) Select Administration Server, Node Manager, Managed Servers, Clusters and Coherence.



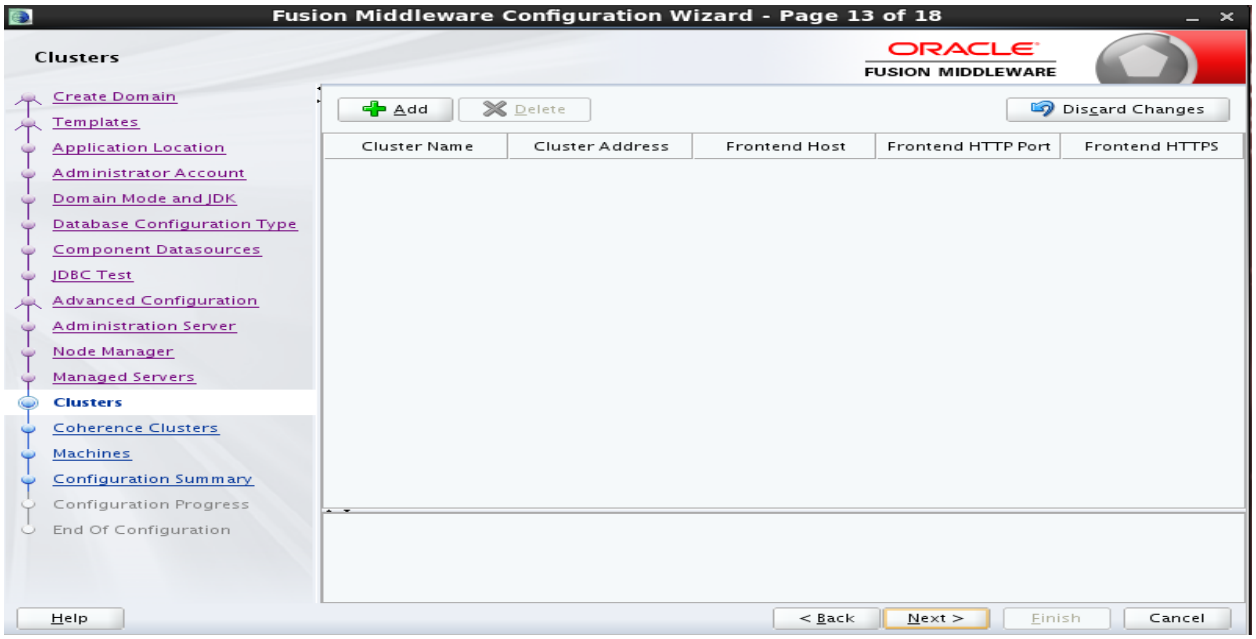

10) Give the ServerName, Port and Listen Address as IP of machine where the server will be running.



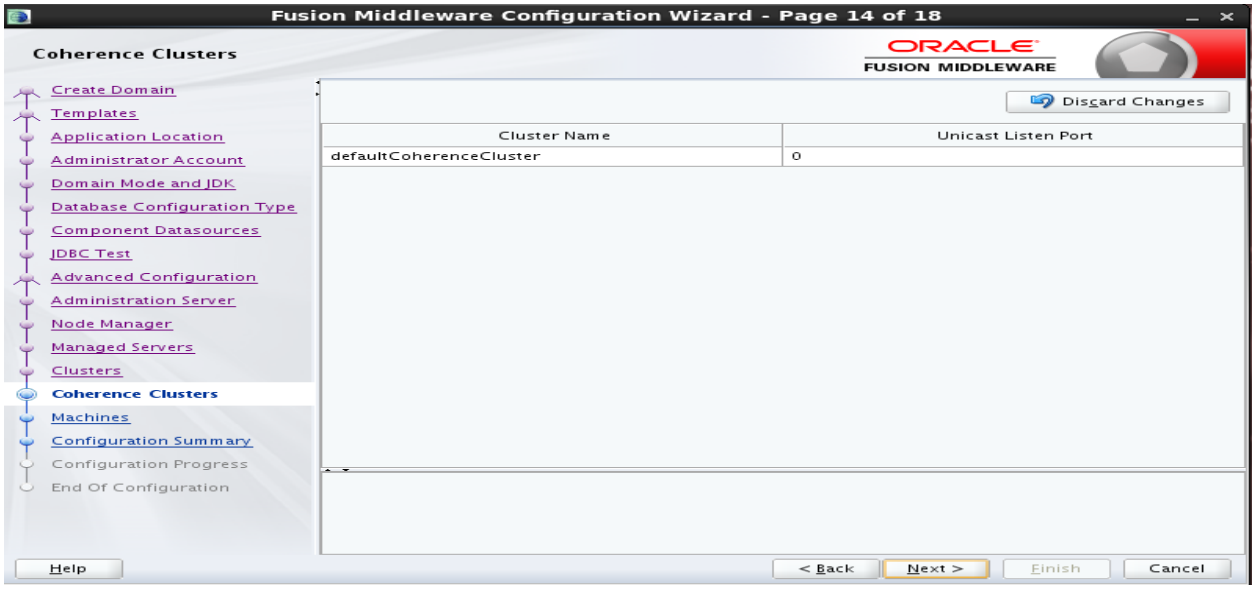

11) Select Per Domain and give Node manager username/password (we gave same as Admin User)



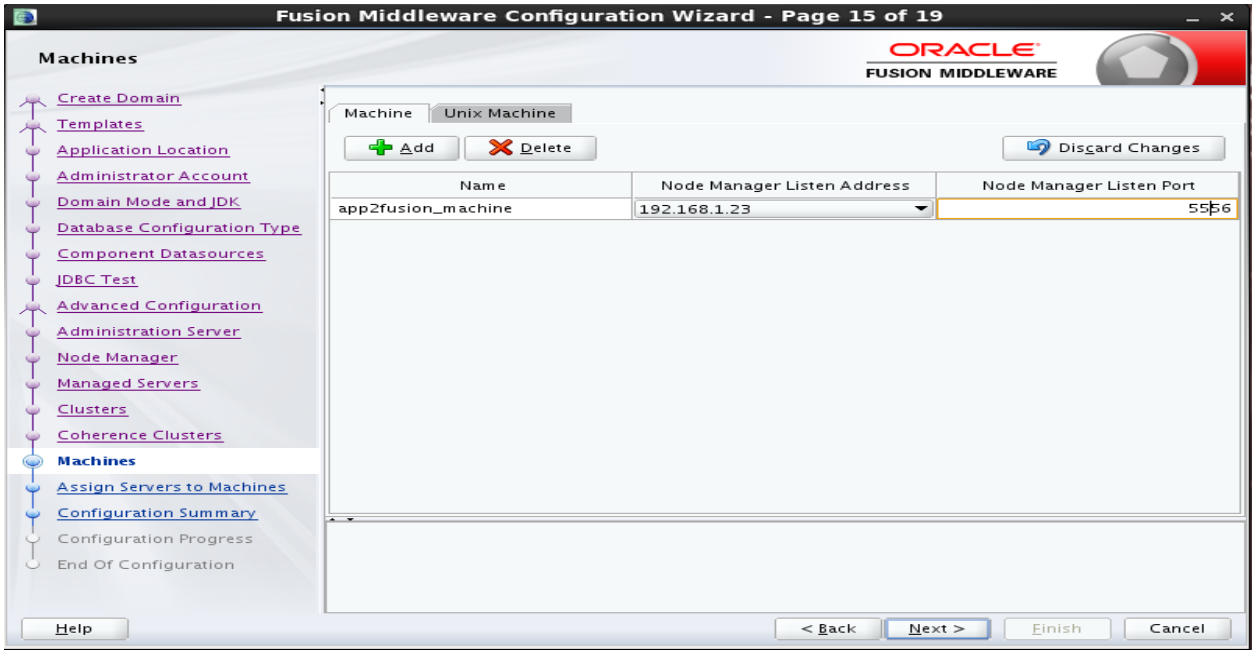

12) Give server name, ports and Listen Address.



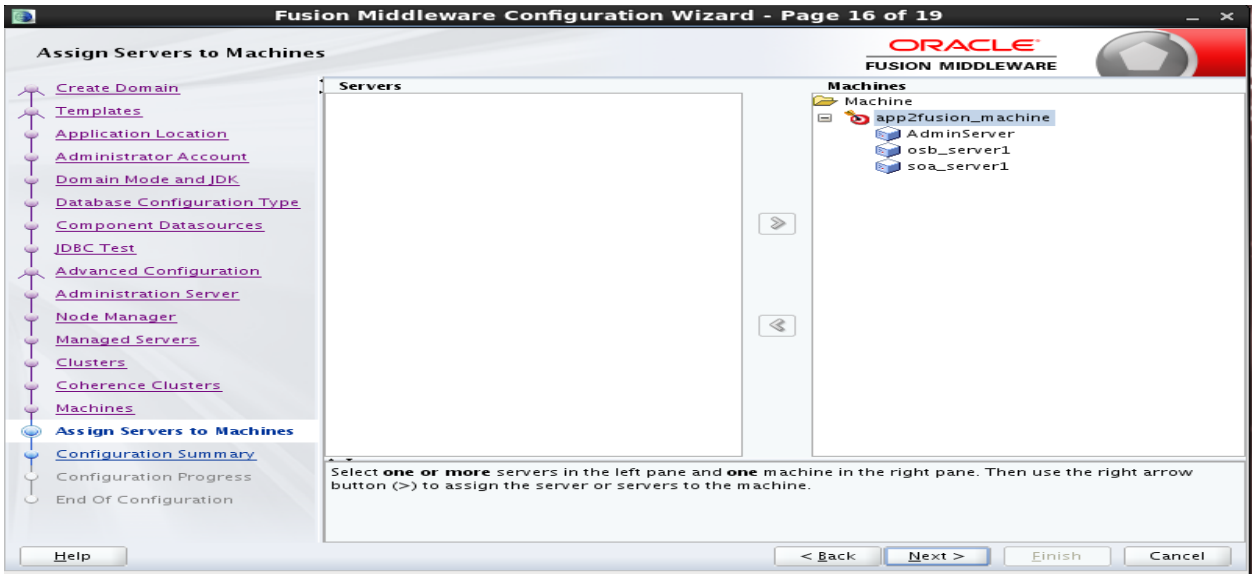

13) Click Next.



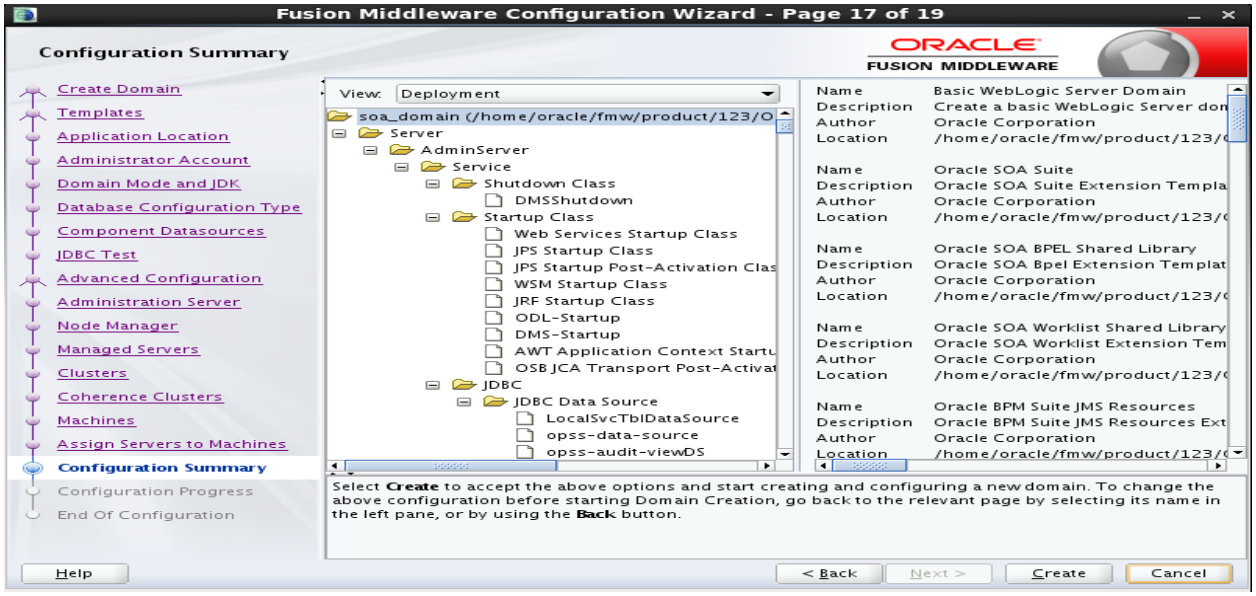

14) Click Next.



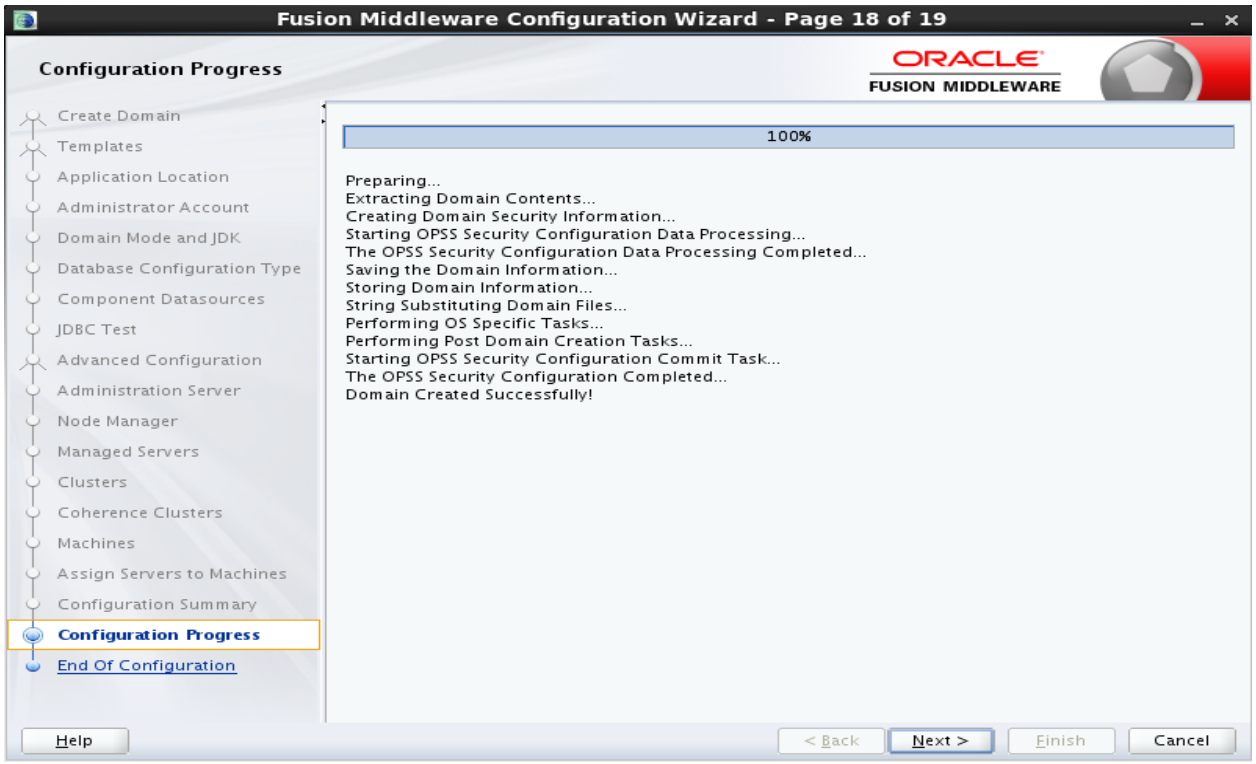

15) Give machine name as your choice. Listen Address as the machine IP and port.



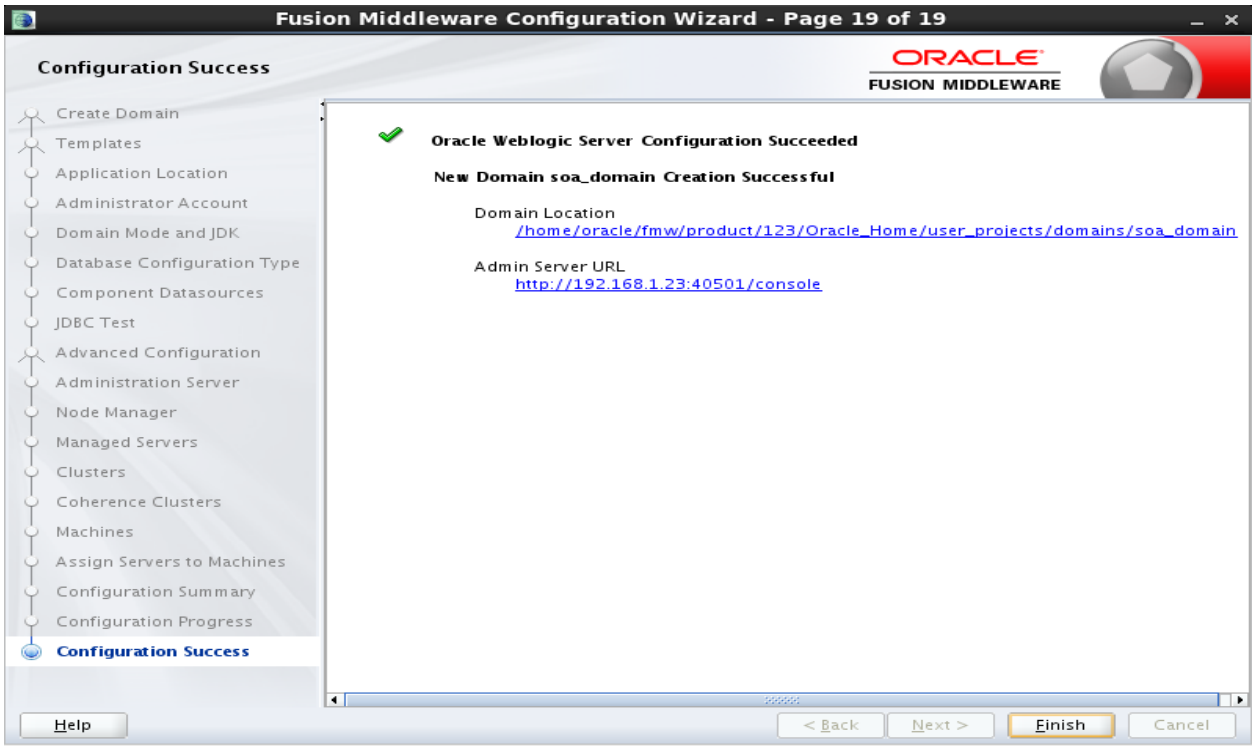

16) Move all the servers from Left Panel (under Servers) to Right panel (under Machines)




17) Click Create.




18) Click Next.




19) Note down the URL's to access the Admin Console. Click Finish.

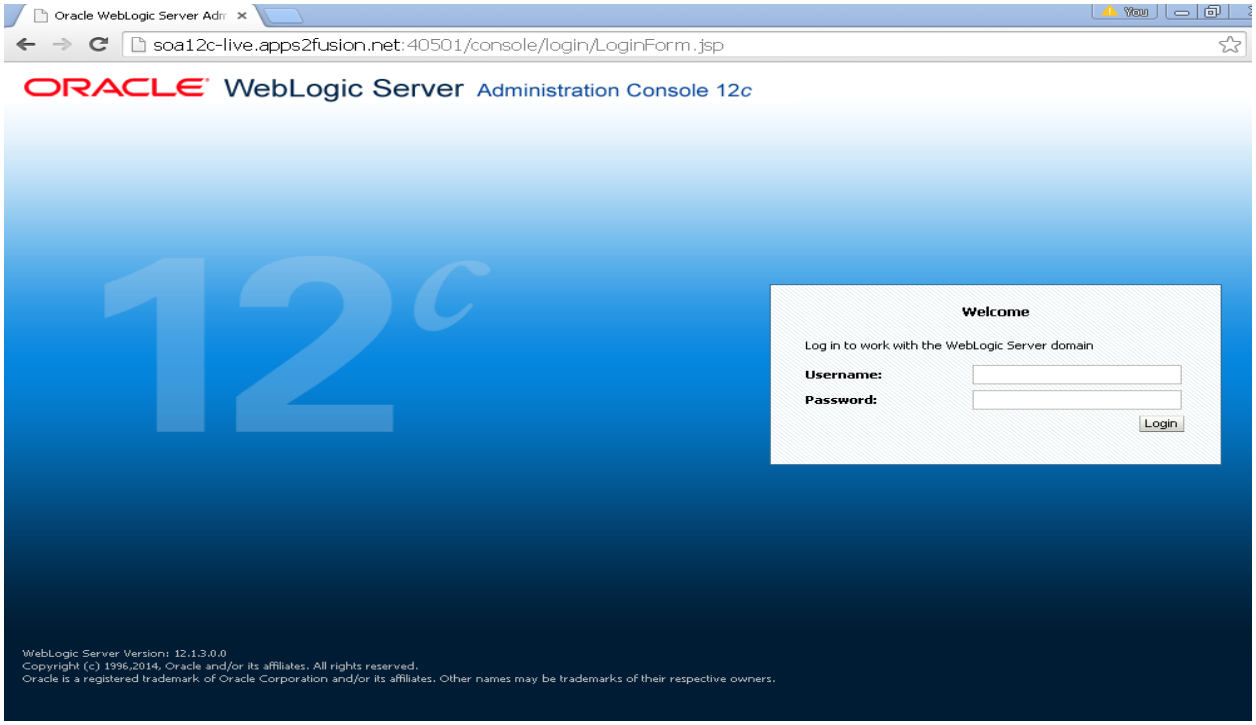
Now start the AdminServer and nodemanager:
To start your per-domain Node Manager, go to ***DOMAIN_HOME*/bin** directory.

```
nohup ./startNodeManager.sh &
```

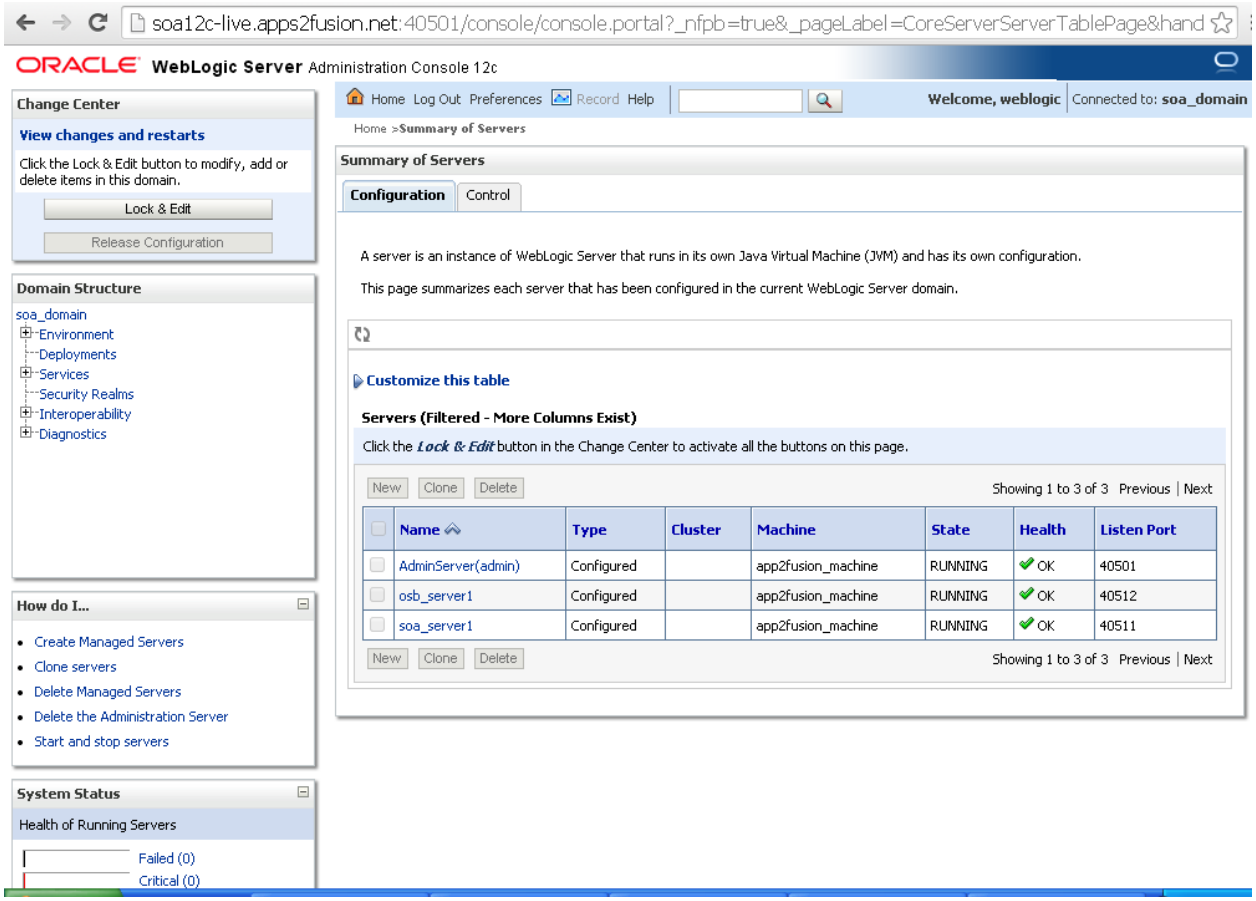
Start AdminServer from same location:

```
./startWebLogic.sh
```

Once the server comes to 'RUNNIG' Status. Navigate to the URL in browser.




20) Give Admin Username and password to login.




21) Start soa_server1 and osb_server1 from the console.