

Step by Step Enterprise Manager Cloud Control-12c installation on OEL

As you heard/known Oracle Enterprise Manager family has new member **Oracle Enterprise Manager 12c**

Previous release we call it **“Grid Control”** but after this release we have new naming **“Cloud Control”**

With this new product there are some new features and plugins like create database, upgrade database, clone database or monitor Fusion Middleware products etc.

For more details please see:

http://docs.oracle.com/cd/E24628_01/doc.121/e25353/whats_new.htm

In this article, I am going to try to explain step by step Oracle Enterprise Manager Cloud Control 12c Release 1 installation by using 64 bit Oracle Enterprise Linux

Here is the our steps:

1. Download setups
 - a. Download Cloud Control 12.1 setup
 - b. Oracle Database 11.2.0.3 installation(This database will our Repository Database. You can also prefer to use 10.2.0.5 ile 11.1.x ve 11.2.x database versions for this purpose.)
2. Checking related installations Pre-request
3. Start to Cloud Control 12.1 installation

Let us start to download related files first. Please follow below steps:



This screenshot shows the Oracle Technology Network website for Oracle Enterprise Manager Grid Control 11g Downloads. The page is titled 'Oracle Enterprise Manager Downloads' and lists several software releases for download. The releases include:

- Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1) (New)
- Enterprise Manager Base Platform (Full Installers for OEM, Agent and Repository)
- For Linux x86 (32-bit)
- For Linux x86-64 (64-bit)

Additional Required Software for Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1):

- Oracle Database

Previous Enterprise Manager Release Software:

- Enterprise Manager 11g Grid Control Release 1 (11.1.0.1.0)
- Enterprise Manager 10g Grid Control Release 2 (10.2.0.x.0)
- Enterprise Manager 10g Grid Control Release 1 (10.1.0.x.0) (Extended Support Ends Feb 2012)

Enterprise Manager Agent Downloads:

- Oracle Enterprise Manager Agent Downloads (All Releases)

Oracle Enterprise Manager Plug-in and Connector Downloads:

- Oracle Enterprise Manager Plug-in and Connector Downloads (All Releases)

Oracle Enterprise Manager Cloud Control 12c Upgrade:

- Oracle Enterprise Manager Cloud Control 12c Upgrade

Additional Enterprise Manager Downloads:

- Oracle BI Publisher Downloads
- Oracle BI Publisher Downloads

Enterprise Manager Desktop Widgets:

- Enterprise Manager Desktop Widgets

Popular Downloads:

- Oracle Database
- Enterprise Manager
- Database EE and XE
- Developer VMs
- Enterprise Pack for Eclipse
- JDBC
- JDeveloper and IDE
- Linux and VM
- MySQL
- NetBeans IDE
- MySQL Database
- Solaris
- SQL Developer
- VirtualBox
- WebLogic Server

Enterprise Manager Downloads:

- Oracle Enterprise Manager Downloads
- Application Testing Suite
- System Monitoring Plugins and Management Connectors
- Enterprise Manager Ops Center
- Real User Experience Insight
- Oracle Business Transaction Management Downloads
- VM Templates

This screenshot shows the Oracle Technology Network website for Oracle Enterprise Manager Grid Control for Linux x86-64 Downloads. The page is titled 'Oracle Enterprise Manager Grid Control for Linux x86-64' and lists software releases for download. The releases include:

Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1) for Linux x86-64 (New)

Download the complete files:

- sm12_linux64_dmg112.zip (2,561,179,217 bytes) (checksum - 3191200111)
- sm12_linux64_dmg212.zip (1,057,842,914 bytes) (checksum - 4202173197)

Directions:

- All files are in the zip format. There is an unzip utility for this platform [here](#) if you need one.
- Download all the zip files and unzip them into a same directory.
- Installation guides and general Enterprise Manager documentation can be found [here](#).

Oracle Enterprise Manager 11g Grid Control Release 1 (11.1.0.1.0) for Linux x86-64

Download the complete files:

- GridControl_11.1.0.1.0_Linux_x86-64_1of3.zip (1,430,649,530 bytes) (checksum - 4223002954)
- GridControl_11.1.0.1.0_Linux_x86-64_2of3.zip (1,580,571,704 bytes) (checksum - 835844209)
- GridControl_11.1.0.1.0_Linux_x86-64_3of3.zip (1,498,954,645 bytes) (checksum - 2199662147)

Directions:

- All files are in the zip format. There is an unzip utility for this platform [here](#) if you need one.
- Download all the zip files and unzip them into a same directory.
- Review the [README](#) for this release.
- Installation guides and general Enterprise Manager documentation can be found [here](#).
- After downloading the zip verify the checksum and size. For more details refer to section [How to Procure the Software from Oracle Technology Network from Enterprise Manager Grid Control Advanced Installation and Configuration Guide](#) available [here](#).

Popular Downloads:

- Oracle Database
- Enterprise Manager
- Database EE and XE
- Developer VMs
- Enterprise Pack for Eclipse
- JDBC
- JDeveloper and IDE
- Linux and VM
- MySQL
- NetBeans IDE
- MySQL Database
- Solaris
- SQL Developer
- VirtualBox
- WebLogic Server

Enterprise Manager Downloads:

- Oracle Enterprise Manager Downloads
- Application Testing Suite
- System Monitoring Plugins and Management Connectors
- Enterprise Manager Ops Center
- Real User Experience Insight
- Oracle Business Transaction Management Downloads
- VM Templates

After download related files We can start to our installations

Now the first steps is start to install Oracle 11.2.0.3 database. This version can be download only from Metalink as a patchset.(Patch no [10404530](#)) As I mention before this database will be use as a Repository Database. If you dont have metalink account than you can download 11.1.x ve 11.2.x database versions from below links:

<http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html>

Now We can start to install our 11.2.0.3 database installations:

1 . Unzip Setup files:

```
unzip p10404530_112030_Linux-x86-64_1of7.zip -d /u01/setup/database  
.  
.  
unzip p10404530_112030_Linux-x86-64_2of7.zip -d /u01/setup/database
```

2. Edit Hosts File:

Use vi editor and edit /etc/hosts

<IP-address> <fully-qualified-machine-name> <machine-name>

Example:

```
127.0.0.1      localhost.localdomain  localhost  
10.x.x.x      mytest.localdomain  mytest
```

3. Related rpm and Operating System checking:

In this installation I will use "oracle-validated" packet, so there is no need any manuel adjustment for my installation.

You can find related info at below links:

<http://public-yum.oracle.com>

Run below command:

```
# yum install oracle-validated
```

With this command We will fix all related pre-requesti automatically:

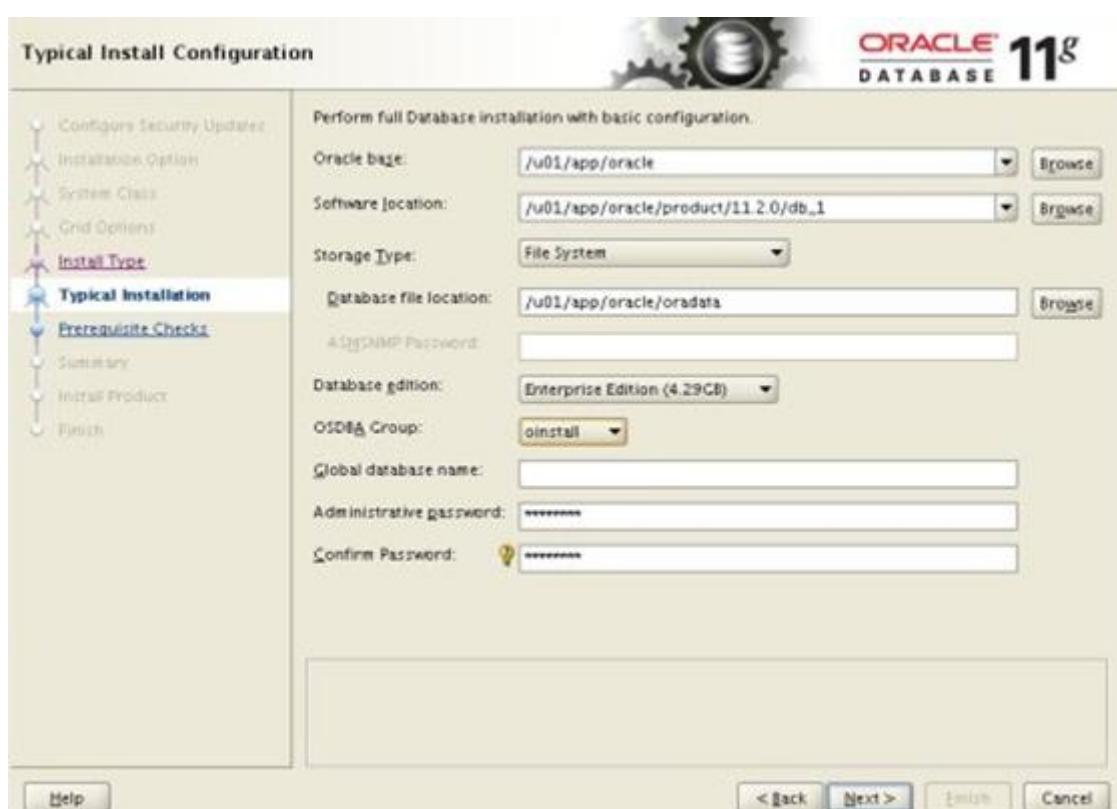
PS: You can check below links for manuel settings:

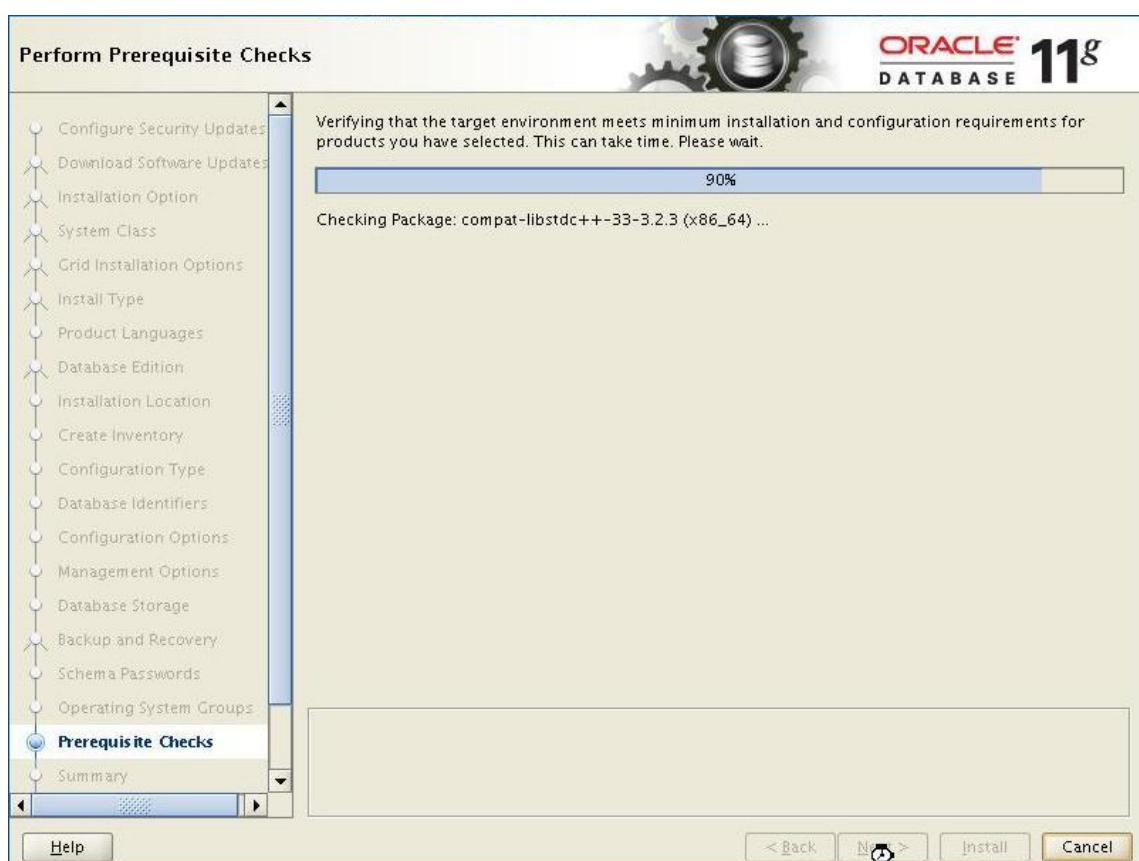
http://docs.oracle.com/cd/E11882_01/install.112/e24326.pdf

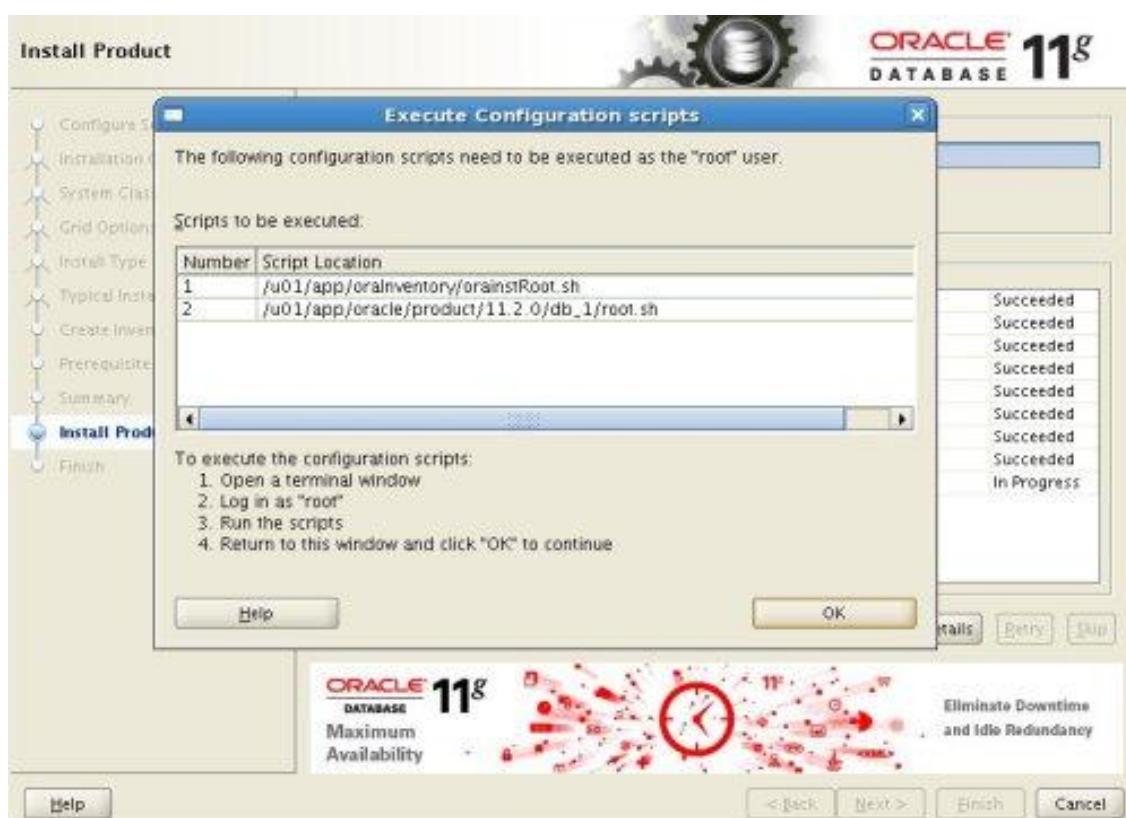
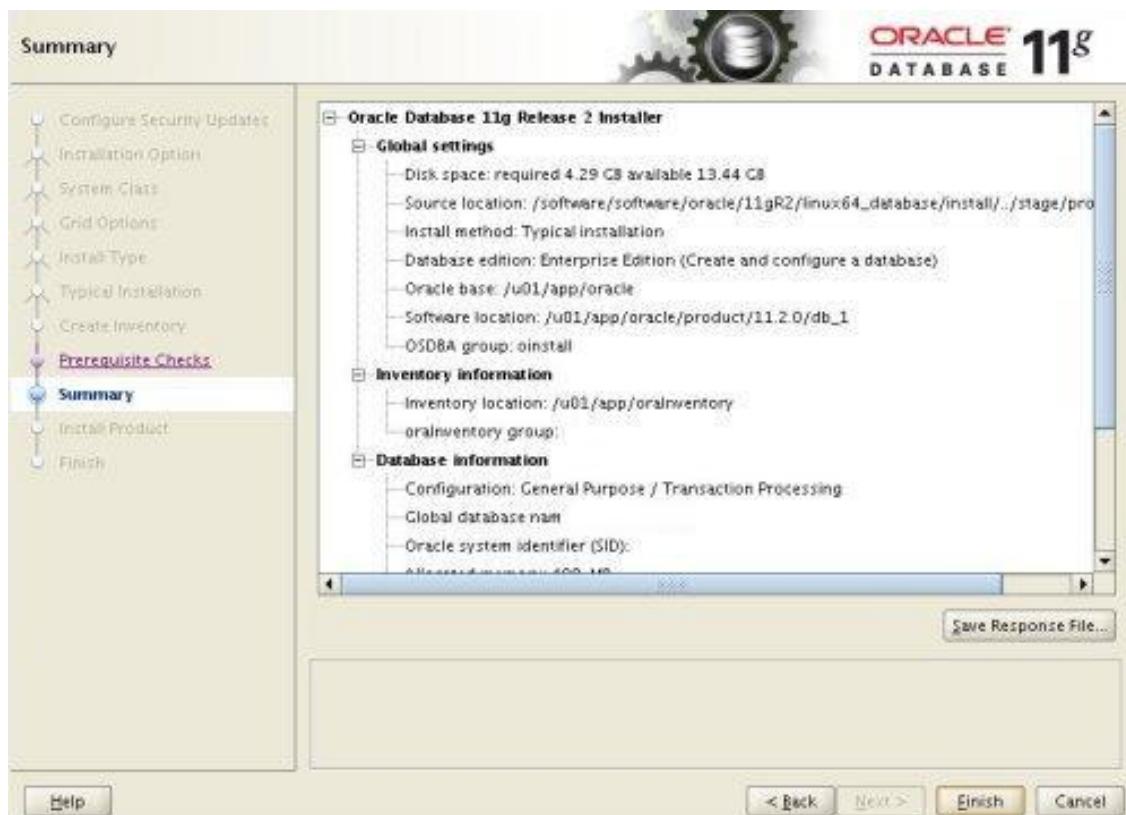
4. Installation Screens:











Now We have our 11.2.0.3 database.

Now We can start to check our control for 12c installation. Oracle strongly suggest to make below changes on your database before start 12c installation

1. Do not use "**memory_target**" parameter. That's why please run below commands:

- *ALTER SYSTEM SET processes=300 SCOPE=SPFILE;*
- *ALTER SYSTEM SET session_cached_cursors=200 SCOPE=SPFILE;*
- *ALTER SYSTEM SET sga_target=2G SCOPE=SPFILE;*
- *ALTER SYSTEM SET shared_pool_size=600M SCOPE=SPFILE;*
- *ALTER SYSTEM SET pga_aggregate_target=1G SCOPE=SPFILE;*
- *ALTER SYSTEM SET job_queue_processes=20 SCOPE=SPFILE;*
- *ALTER SYSTEM SET log_buffer=10485760 SCOPE=SPFILE;*
- *ALTER SYSTEM SET open_cursors=300 SCOPE=SPFILE;*

Restart the instance.

- *SHUTDOWN IMMEDIATE*
- *STARTUP*

Those parameters are min. values which mean you can increase those values via your needs.

Oracle recommended to use UNDO tablespace is at least 200M in size. Also, make sure you have 3 redo logs of at least 300M to prevent a warning during the installation.

You can use below sql to can see your values:

```
select group#,bytes,status from v$log;
```

```
select group#,member from v$logfile;
```

You can check below picture which describe requests difference between 11g and EM 12.1

	11G		EM 12.1	
	Small configuration		Small configuration	
Oracle Management Service (Single)	3GB RAM	1GB Hard Disk + 6GB WLS home	4GB	7GB Hard Disk
Oracle Management Agent (standalone)	512 MB RAM	850 MB Hard Disk	512 MB RAM	1GB Hard Disk
Oracle Management Repository	2GB RAM	50 GB Hard Disk	2GB RAM	50GB Hard Disk

In 11g version We need to install Weblogic separately but in 12c its comes by default .(Default version is 10.3.5

Please be sure DO NOT SET ORACLE_HOME ve ORACLE_SID before start installation

Oracle also recommended to set umask 022 before start installation

Now we can start 12.1 installation.

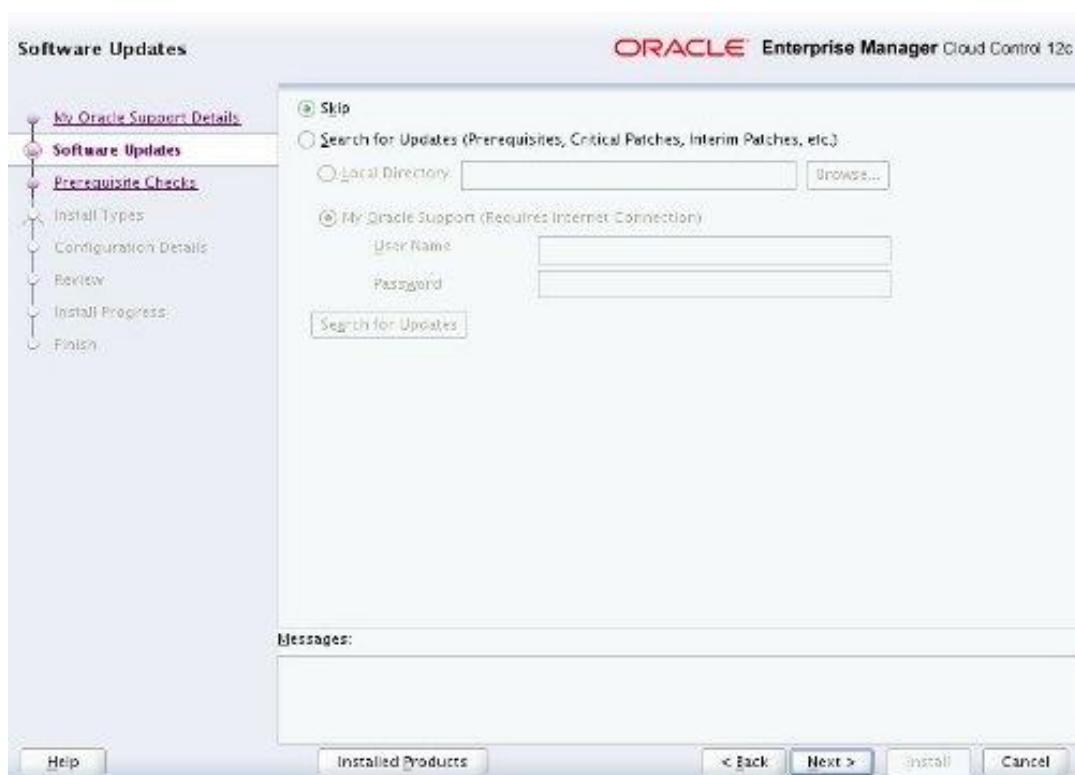
Go to 12.1 setup path and type below command to can start installation

`./runInstaller`

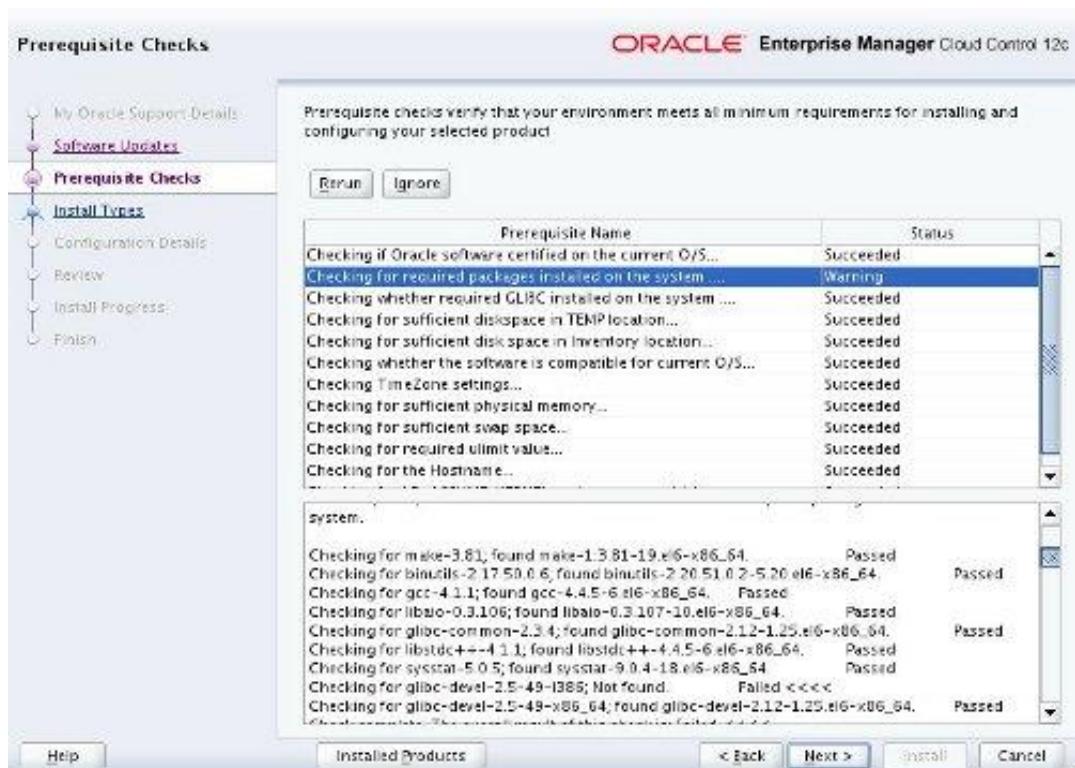


If you wish to check for updates, enter the required details, or check the "Skip" option and click the "Next" button.

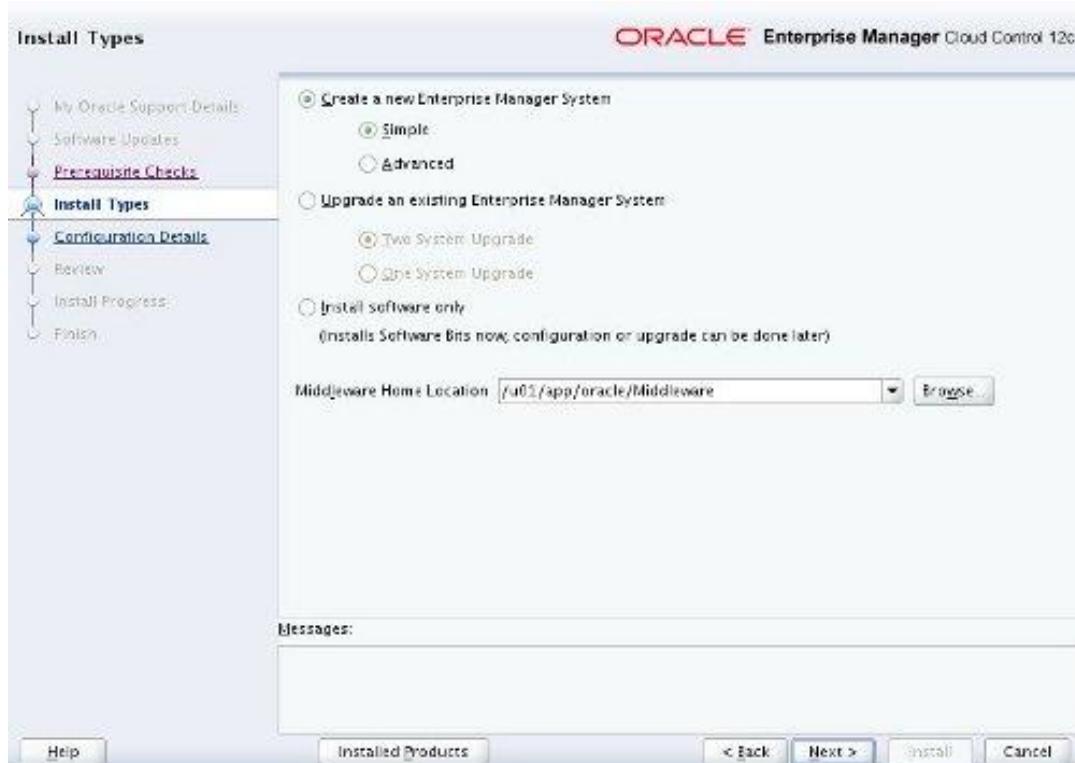
If you hit skip than you will get below warning message, clicke yes and pass next screen



If you want to download Updates you can use your metalink accounts. If not choose "skip" and click next.

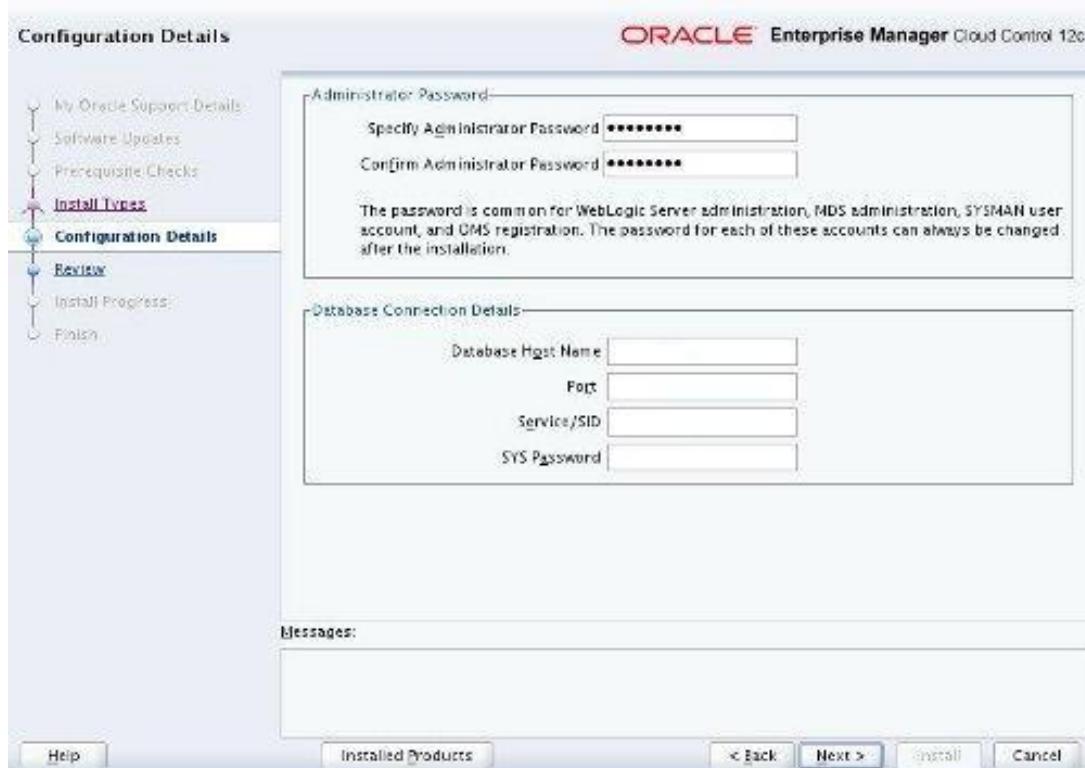


If you have performed the prerequisites as described, the installation on OL5.7 should pass all prerequisite checks



Select the "Create a new Enterprise Manager System" and "Simple" options, enter the middleware home ("'/u01/app/oracle/Middleware") and click the "Next" button

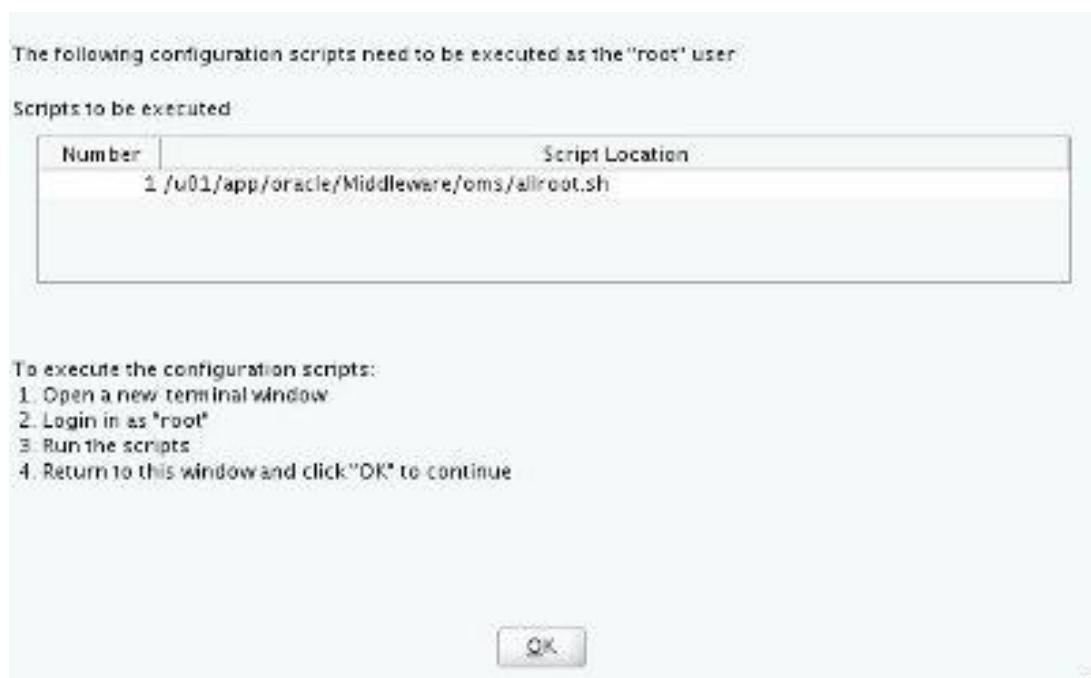
If you use Simple than Cloud Control will install by default plugins. (Exadata ,Oracle Database, Fusion Middleware, My Oracle Support)



Enter the administrator password and database repository details, then click the "Next" button.



You can check your review information, click the "Install" button.



If you don't see any errors during installation, run sh with root user



Log in with the username "sysman" and the password you specified during your installation.

Source:

1. All docs are available here:

http://download.oracle.com/docs/cd/E24628_01/index.htm

2. You can download this product from here:

<http://www.oracle.com/technetwork/oem/grid-control/downloads/index.html>

3. For pricing details:

<http://www.oracle.com/us/corporate/pricing/index.html>

4. For video&demo and more check here:

<http://www.oracle.com/us/products/enterprise-manager/index.html>