

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:



Oracle Enterprise Manager Grid Control 11g download

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Middleware Management
Database Management
Hardware and Virtualization Management
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Cloud Management
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Application Quality Management
Framework and Infrastructure
Installation and Upgrade

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Oracle Enterprise Manager Downloads

Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1) [New!](#)
Enterprise Manager Base Platform (Full Installers for OMS, Agent and Repository)
[for Linux x86_64](#)
[for Linux x86_32](#)
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 (11.1.0.6)
- 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](#)

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Oracle BI Publisher Downloads
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Oracle Enterprise Manager Grid Control For Linux x86-64

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Oracle Enterprise Manager Grid Control for Linux x86-64

Thank you for accepting the OTN License Agreement, you may now download this software.

Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1) for Linux x86-64 [New!](#)
Download the complete files
[em12_linux64_disk1of2.zip](#) (2,561,179,217 bytes) (cdrom - 3191908111)
[em12_linux64_disk2of2.zip](#) (1,057,842,914 bytes) (cdrom - 4202173197)
Directions
1. All files are in the .zip format. There is an unzip utility for this platform [here](#) if you need one.
2. Download all the .zip files and unzip them into a same directory.
3. Installation guides and general Enterprise Manager documentation can be found [here](#).

Oracle Enterprise Manager 11g Grid Control Release 1 (11.1.0.6) for Linux x86-64
Download the complete files
[GridControl_11.1.0.6_Linux_x86-64_1of2.zip](#) (1,430,549,530 bytes) (cdrom - 4223002654)
[GridControl_11.1.0.6_Linux_x86-64_2of2.zip](#) (1,560,671,704 bytes) (cdrom - 935544309)
[GridControl_11.1.0.6_Linux_x86-64_3of3.zip](#) (1,408,054,545 bytes) (cdrom - 2196652147)
Directions
1. All files are in the .zip format. There is an unzip utility for this platform [here](#) if you need one.
2. Download all the .zip files and unzip them into a same directory.
3. Review the [BECU](#) for this release.
4. Installation guides and general Enterprise Manager documentation can be found [here](#).
5. 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

- [Berkeley DB](#)
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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
```

Whit 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:

Configure Security Updates

Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:

Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

Select Installation Option

Select any of the following install options.

☒ Create and configure a database

☐ Install database software only

☐ Upgrade an existing database





Select Install Type

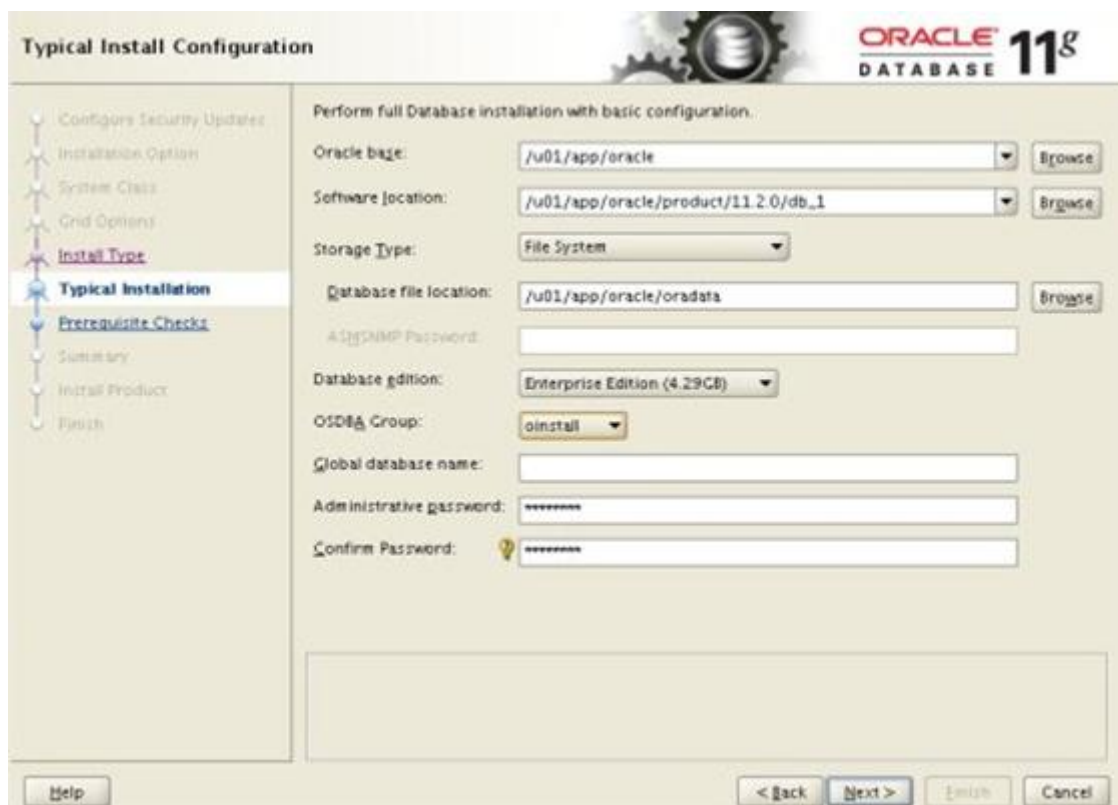
ORACLE DATABASE 11g

Configure Security Updates
Installation Option
System Class
Grid Options
Install Type
Typical Installation
Prerequisite Checks
Summary
Install Product
Finish

☒ **Typical install**
Perform full Oracle Database installation with basic configuration.

☐ **Advanced install**
Allows advanced selections such as different passwords for the SYS, SYSMAN, SYSTEM and DBSNMP accounts, database character set, product languages, automated backups, custom installation, and alternative storage options such as Automatic Storage Management.

Help < Back Next > Finish Cancel



Typical Install Configuration

ORACLE DATABASE 11g

Configure Security Updates
Installation Option
System Class
Grid Options
Install Type
Typical Installation
Prerequisite Checks
Summary
Install Product
Finish

Perform full Database installation with basic configuration.

Oracle base: /u01/app/oracle Browse

Software location: /u01/app/oracle/product/11.2.0/db_1 Browse

Storage Type: File System

Database file location: /u01/app/oracle/oradata Browse

ASDSNMP Password:

Database edition: Enterprise Edition (4.29C8)

OSDBA Group: oinstall

Global database name:

Administrative password:

Confirm Password:

Help < Back Next > Finish Cancel

Create Inventory

ORACLE[®] DATABASE 11g

You are starting your first installation on this host. Specify a directory for installation files. This directory is called the "inventory directory". The installer automatically sets up subdirectories for each product to contain inventory data. The subdirectory for each product typically requires 150 kilobytes of disk space.

Inventory Directory:

Specify an operating system group whose members have write permission to the inventory directory (orainventory).

orainventory Group Name:

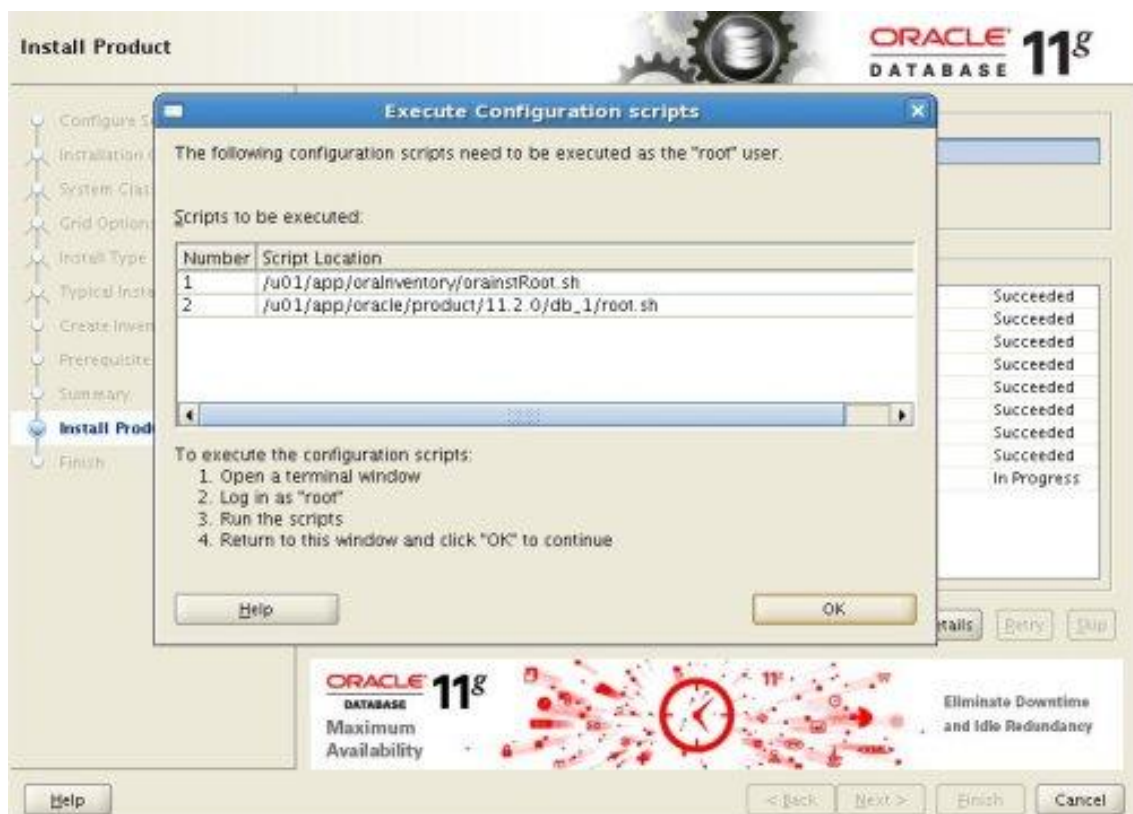
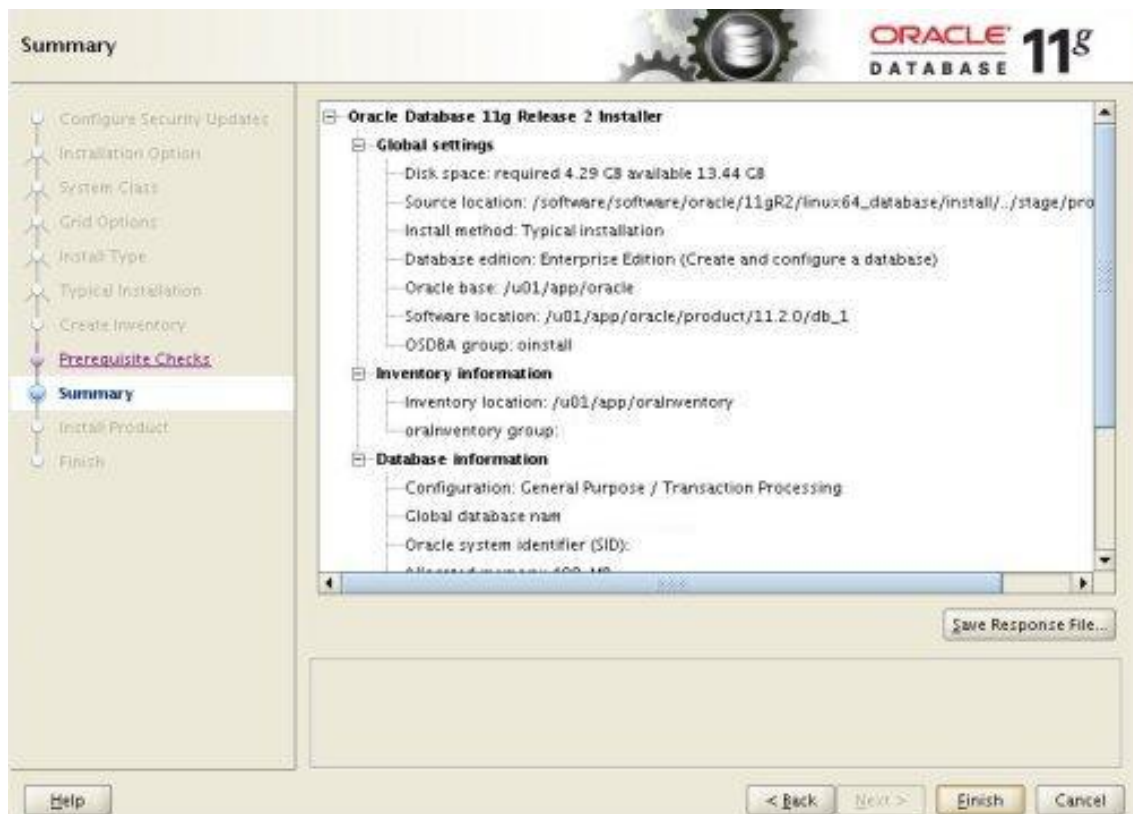
Perform Prerequisite Checks

ORACLE[®] DATABASE 11g

Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.

90%

Checking Package: compat-libstdc++-33-3.2.3 (x86_64) ...



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

My Oracle Support Details ORACLE Enterprise Manager Cloud Control 12c

My Oracle Support Details

- Software Updates
- Prerequisite Checks
- Install Types
- Configuration Details
- Review
- Install Progress
- Finish


Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:

Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

 You have not provided an email address.

Do you wish to remain uninformed of critical security issues in your configuration?

Messages:

Software Updates ORACLE Enterprise Manager Cloud Control 12c

My Oracle Support Details

- Software Updates
- Prerequisite Checks
- Install Types
- Configuration Details
- Review
- Install Progress
- Finish

☒ Skip

☐ Search for Updates (Prerequisites, Critical Patches, Interim Patches, etc.)

☐ Local Directory:

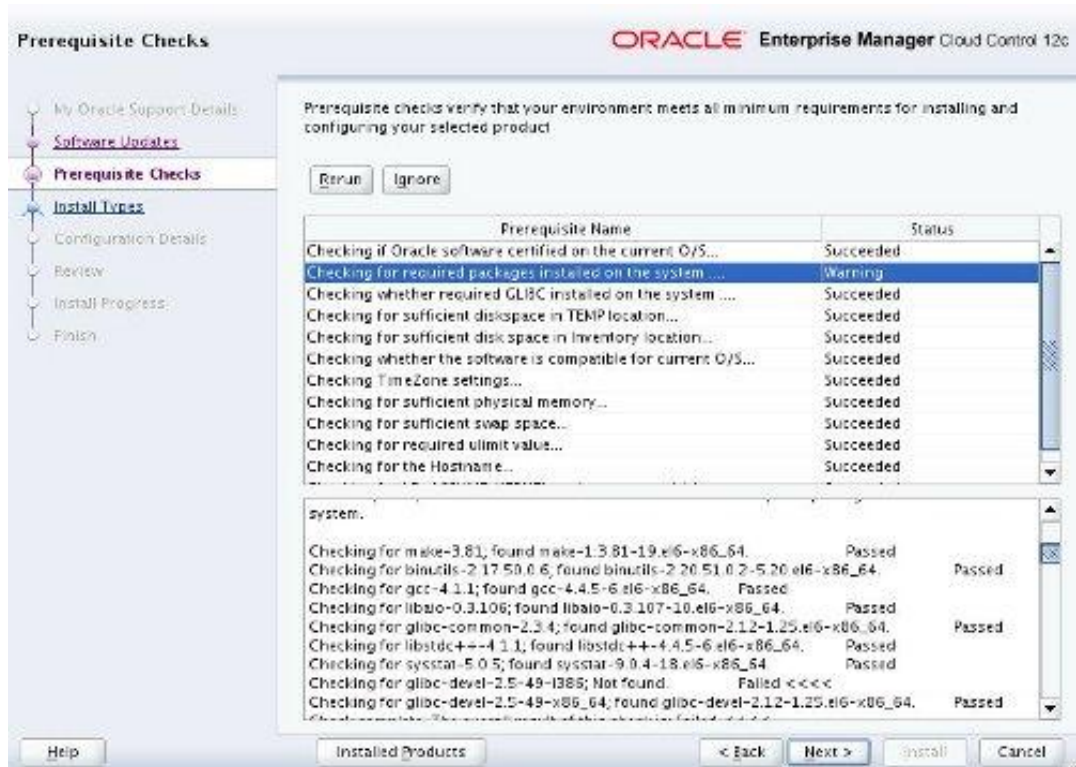
☒ My Oracle Support (Requires Internet Connection)

User Name:

Password:

Messages:

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

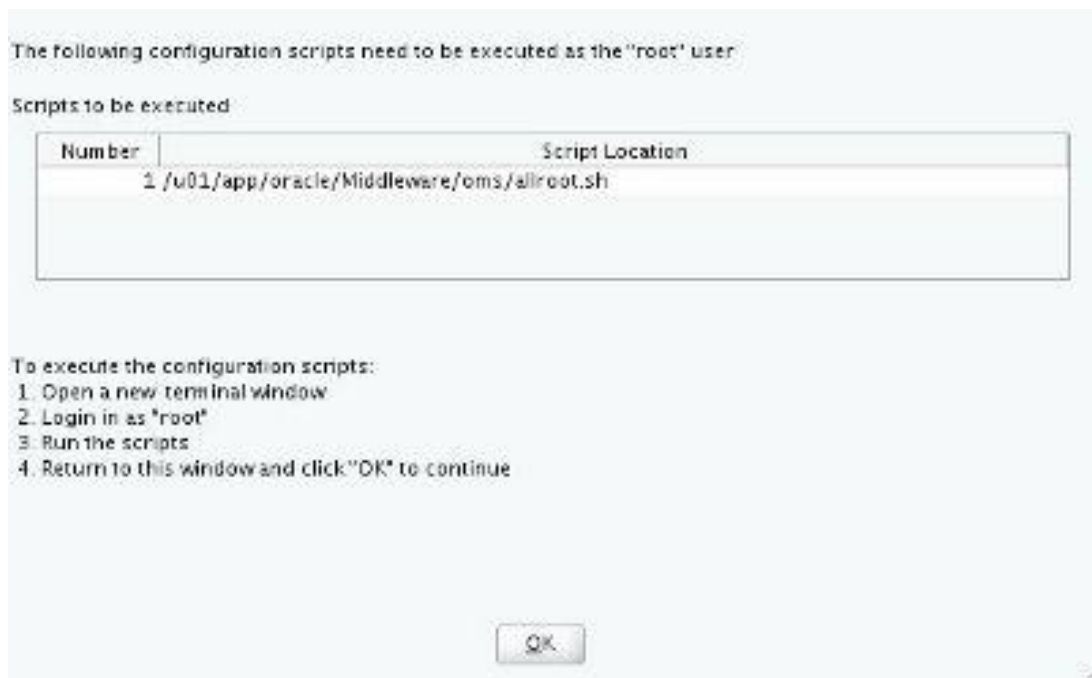
If you use Simple than Cloud Control will install by default plugins. (Exadata ,Oracle Database, Fusion Middleware, My Oracle Support)

The screenshot shows the 'Configuration Details' window of the Oracle Enterprise Manager Cloud Control 12c installation wizard. On the left is a navigation pane with steps: My Oracle Support Details, Software Updates, Prerequisite Checks, **Install Types**, **Configuration Details**, Review, Install Progress, and Finish. The main area is titled 'Configuration Details' and contains two sections: 'Administrator Password' and 'Database Connection Details'. The 'Administrator Password' section has two password fields, both masked with dots, and a note stating: 'The password is common for WebLogic Server administration, MDS administration, SYSMAN user account, and OMS registration. The password for each of these accounts can always be changed after the installation.' The 'Database Connection Details' section has four fields: 'Database Host Name', 'Port', 'Service/SID', and 'SYS Password'. At the bottom, there is a 'Messages' section and a row of buttons: 'Help', 'Installed Products', '< Back', 'Next >', 'Install', and 'Cancel'.

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

The screenshot shows the 'Review' window of the Oracle Enterprise Manager Cloud Control 12c installation wizard. The navigation pane on the left highlights the 'Review' step. The main area is titled 'Review' and contains a summary of the installation configuration. It starts with the instruction: 'Review the information you have provided and click Install to begin the installation process.' Below this is a tree view of the configuration details: 'Install a new Enterprise Manager system' (Source: /host/software/oracle/12c/stage/products.xml), 'Disk Space' (Available: 11.18GB, Required: 7GB), 'Installation Location' (WLS Home, OMS Home, Agent Home), 'Database Information' (Connect String), 'WebLogic Server Information' (Domain Name, Node Manager Username, WebLogic Username), and 'Ports' (Enterprise Manager Upload Http Port: 4890). At the bottom, there is a row of buttons: 'Help', 'Installed Products', '< Back', 'Next >', 'Install', and 'Cancel'.

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



If you dont any hit during installation than run sh wiht 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>