



Install Oracle VM Server

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This paper is the first in a series describing how-to install Oracle VM Server and several Oracle VM guests.

After this paper following papers will be published:

- Install and configure Oracle VM Manager Release 2.2
- How to manually create a VM guest hosting Oracle Enterprise Linux 5
- How to create a VM guest hosting Oracle Enterprise Linux 5 using Oracle VM Manager
- How to create a VM guest hosting Oracle Enterprise Linux 5 using Oracle VM Manager and kickstart files
- Install and configure Oracle Enterprise Manager Grid Control 11g on an Oracle VM guest
- Create an Oracle 11gR2 RAC cluster on Oracle VM guests

This paper will describe the installation of Oracle VM Server on a new system. For this purpose I configured a very nice server with lots of memory to create several Oracle VM guest which can run simultaneous.

The specifications of this server are the following:

1 Cooler Master Centurion 5 II Tower Case, No PSU, Black
1 Asus P6T Deluxe V2, s1366 ATX, X58, DDR3, 3xPCIe, 1394
1 Cooler Master Silent Pro 500W 80PLUS, 135mm Fan
1 Intel Core i7-950, s1366, 3.06GHz, 4.80 GT/sec QPI, 8MB
1 Zalman CNPS10X PERFORMA S775/754/1366/939/940/AM2(+)
6 ICIDU Value DDR3, 1333-4G 1333MHz, Lat 9, 1x4GB
1 Western Digital 500GB Caviar Blue SATAII 7200rpm 16MB
1 Western Digital 2TB Caviar Black SATAII 7200rpm 64MB
1 Asus GeForce EN8400GS SILENT/P 512M DDR2, DVI, VGA, PCIe

Because Oracle VM Server will be the operating system, no other os is installed. For the installation I used the monitor, keyboard and mouse of my home computer and I also have an external CD burner. After installation and plugging the server into my home network I don't need these components anymore. From this time I must be able to login from my laptop connected to the network.

So, now we can get started with installing Oracle VM Server.

Some screenshots are from an installation on VMWare because I couldn't capture the actual screen, but forgive me for this.

Follow the next steps to install Oracle VM Server:

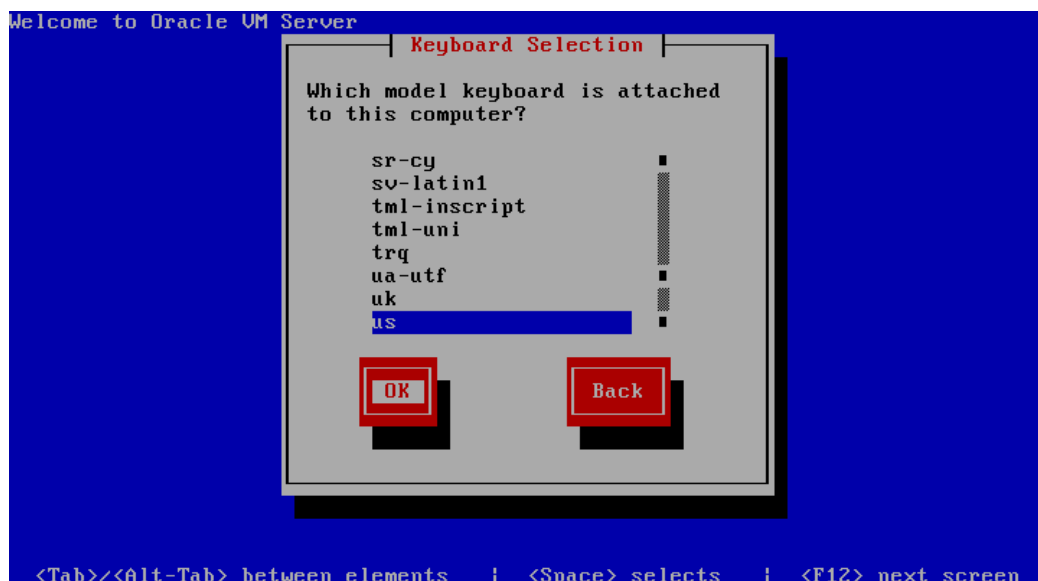
1. Download Oracle VM Server from here: <http://edelivery.oracle.com/oraclevm>
2. The complete official guide to install Oracle VM Server 2.2 is available here: [Oracle VM Server installations guide](#).
3. Burn the Oracle VM Server ISO image to a CDROM
4. Boot the server with the Oracle VM Server CMROM.
5. The **Oracle VM Server** installation screen is displayed.



Action:

Press **ENTER** to start the installation.

6. The **Keyboard Selection** screen is displayed.



Action:

Select the keyboard layout type from the list of available options.

This keyboard will become the default keyboard for the Oracle VM Server operating system.

Select **OK** and press **ENTER**.

7. The **Installation Method** screen is displayed:



Action:

Select **Local CDROM** as the media type, select **OK** and press **ENTER**.

8. The **CD Found** screen is displayed.



Action:

I choose to **SKIP** this test because I already used my Oracle VM Server CDROM before.

It is recommended to test the media before running an installation for the first time.

9. **Warning** screens are displayed to confirm you want to remove ALL partitions on the drives.



Action:

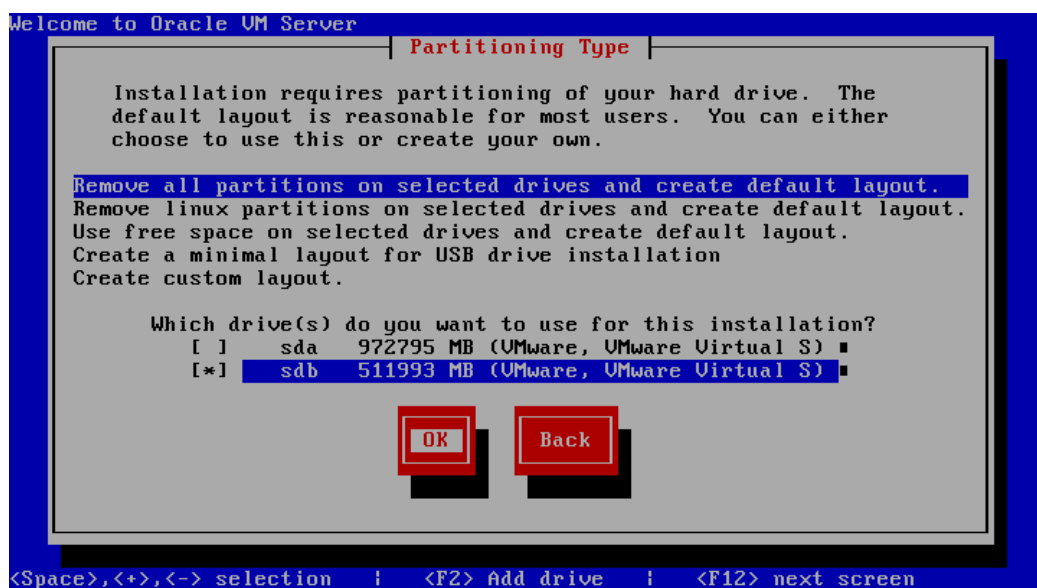
Select **Yes** and press **ENTER** (for all drives).

10. The **Partitioning Type** screen is displayed.

In my server I have the following drives:

- 500 GB drive
- 2 TB drive

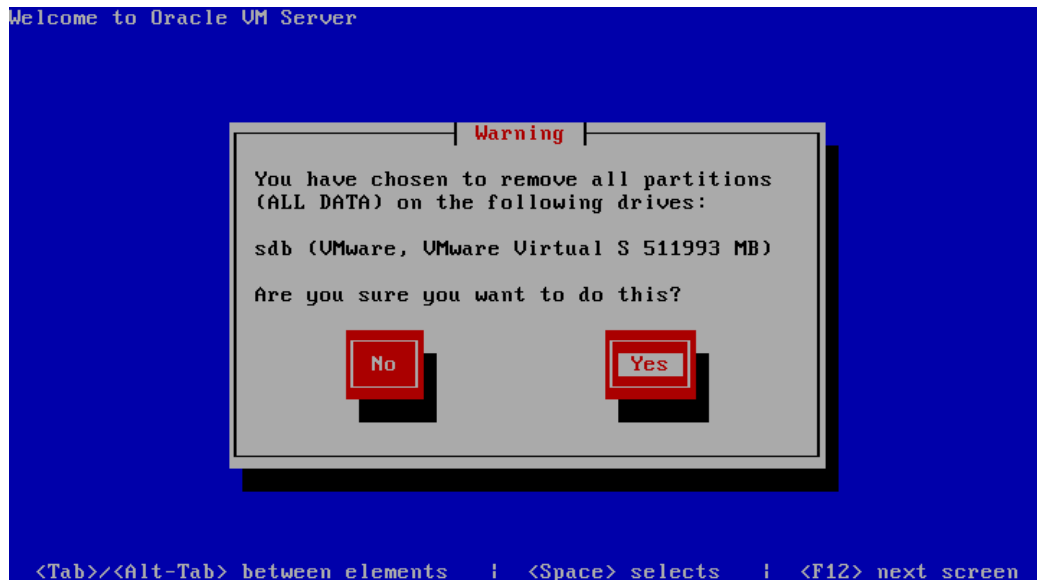
On the 500 GB drive I want to install Oracle VM Server and on the 2TB drive I want to create the Oracle VMs. So this will become my /OVS partition.



Action:

Select **Remove all partitions on selected drives and create default layout** and only select the 500 GB device. Select **OK** and press **ENTER**.

11. A **Warning** screen is displayed to confirm you want to remove ALL partitions on the selected drive.



Action:

Select **Yes** and press **ENTER**.

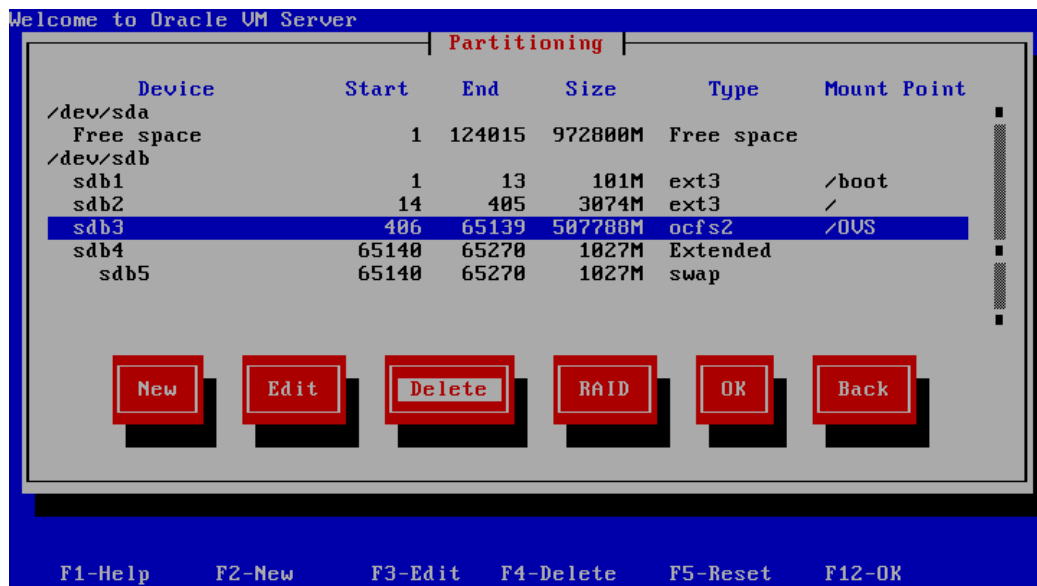
12. The **Review Partitioning Layout** screen is displayed.



Action:

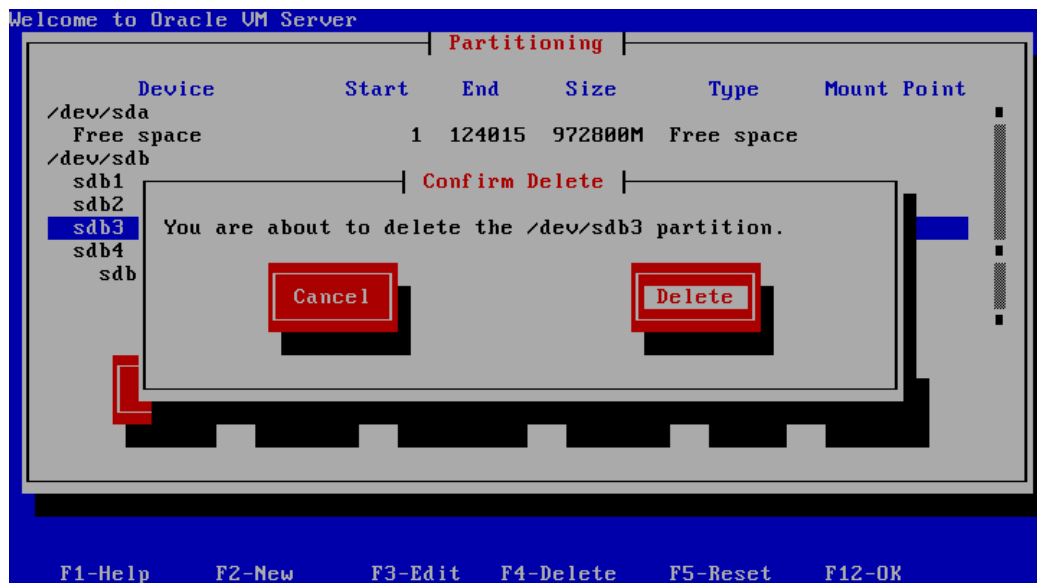
Select **Yes** and press **ENTER**. (Not just because you are curious and want to see the layout, but because you want to make some modifications to add the 2 TB drive to the /OVS partition)

13. The **Partitioning** screen is displayed.



Action:

Select the **/OVS** mount point (in my case sdb3), select the **Delete** button and press **ENTER**.

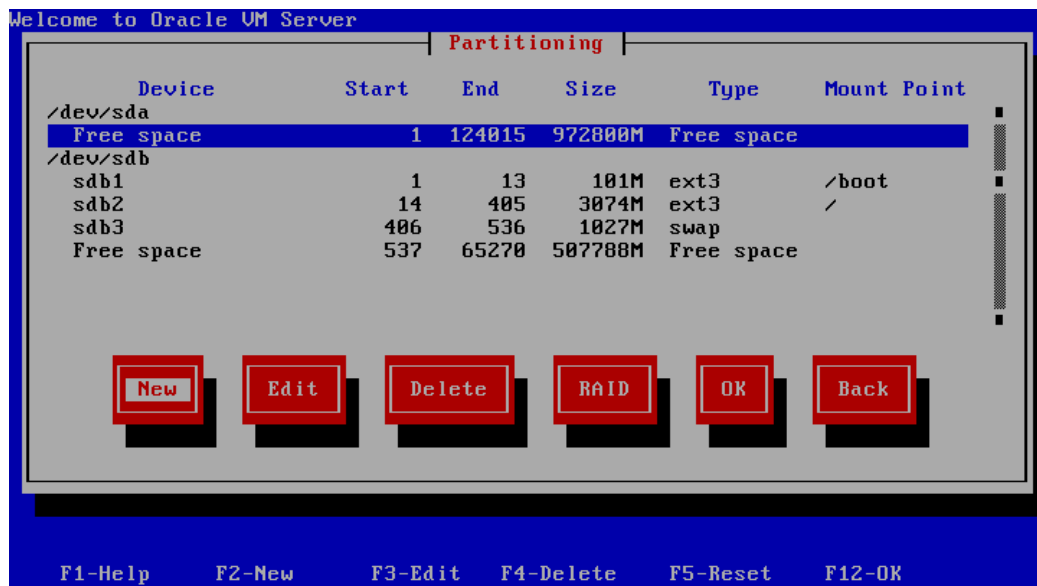


Action:

Confirm the delete of the partition.

Select **OK** and press **ENTER**.

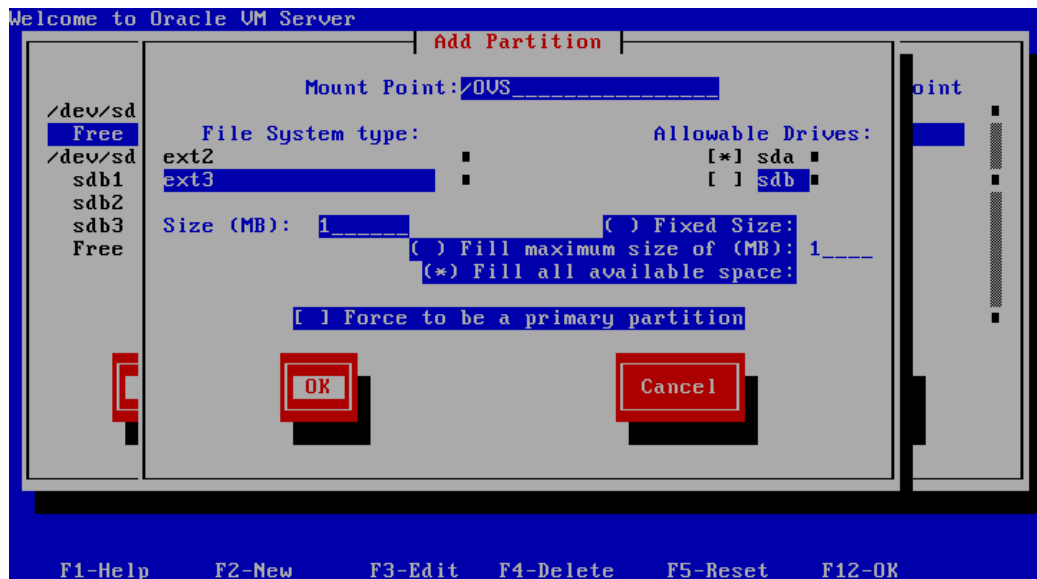
14. In this step we will select the drive to recreate the /OVS mount point.



Action:

Select the free space of the 2 TB device (in my case /dev/sda), select **New** and press **ENTER**.

15. Now we can recreate a new /OVS mount point:



Action:

Because at this moment I don't have the intention to create more than one Oracle VM Server, I will create the new /OVS filesystem as ext3. This relieves me from the burden of maintaining the ocfs2 cluster.

Mount Point: /OVS

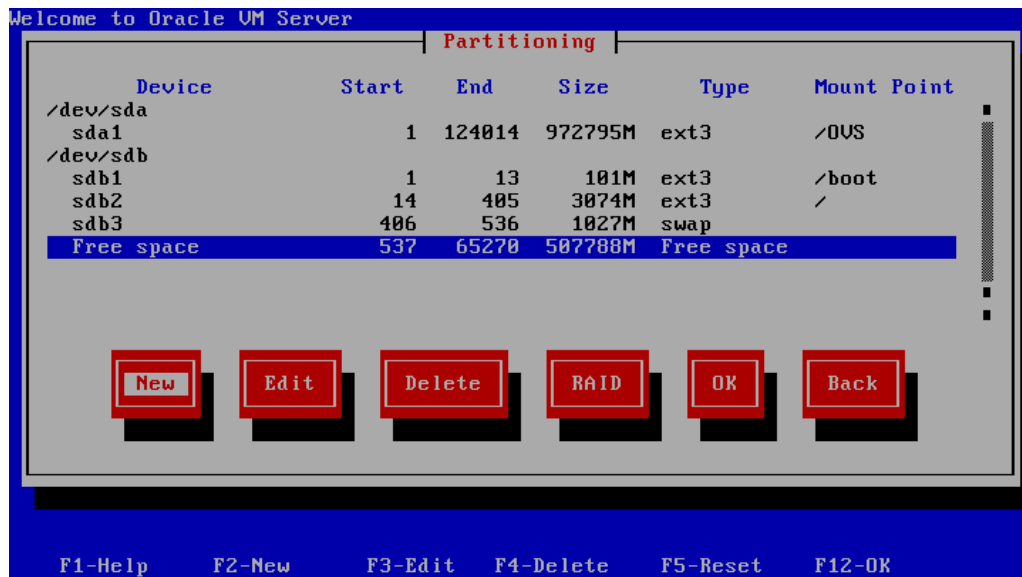
File System Type: ext3

Allowable Drives: sda

Size: Fill all available space

Select **OK** and press **ENTER**.

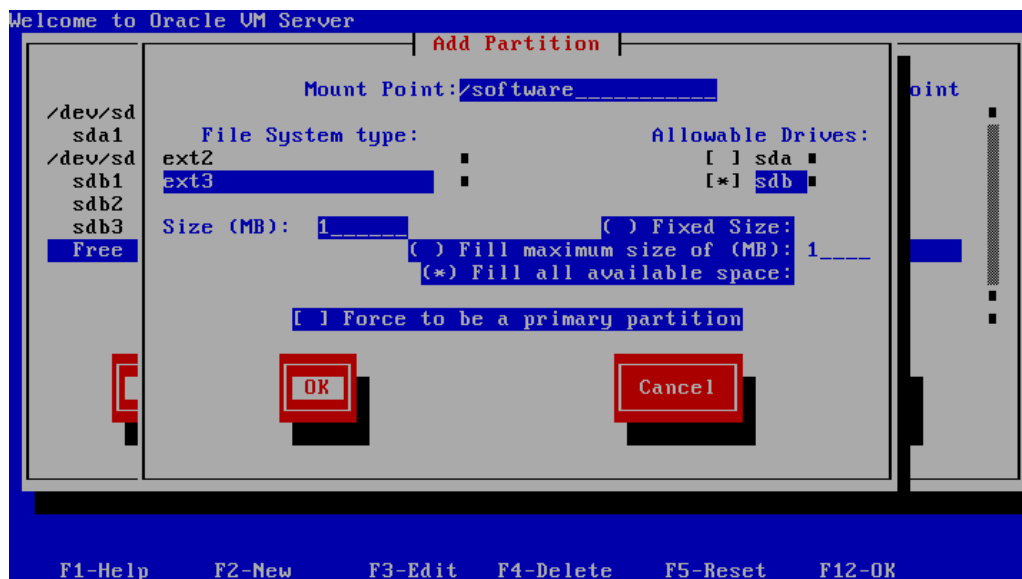
16. The **Free space** on the sdb device can, for example, be used as a software repository. For this purpose I create a /software mount point



Action:

Select the free space of the 500 GB device (in my case /dev/sdb), select **New** and press **ENTER**.

17. Add the /software partition



Action:

Mount Point: /software

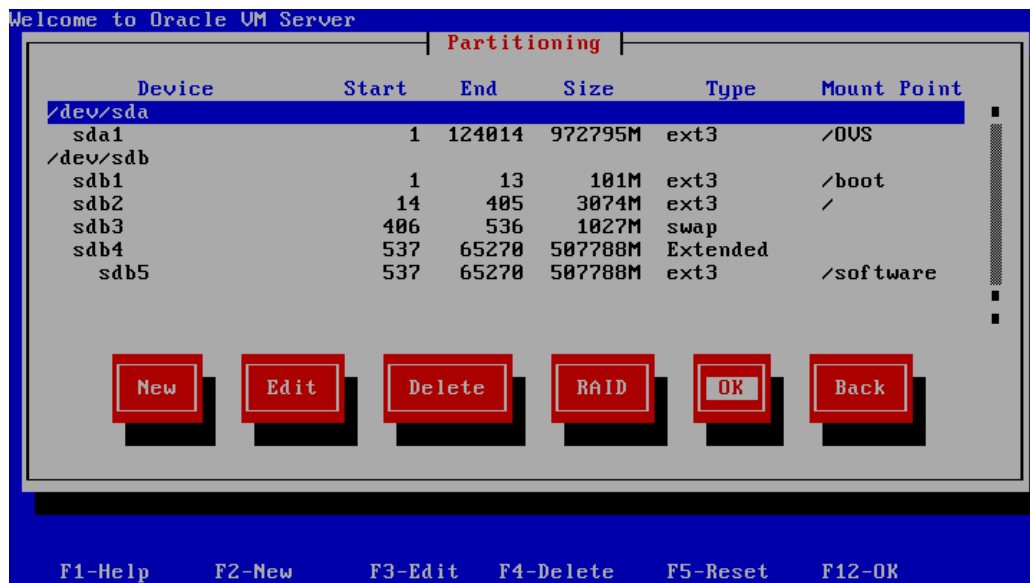
File System Type: ext3

Allowable Drives: sdb

Size: Fill all available space

Select **OK** and press **ENTER**.

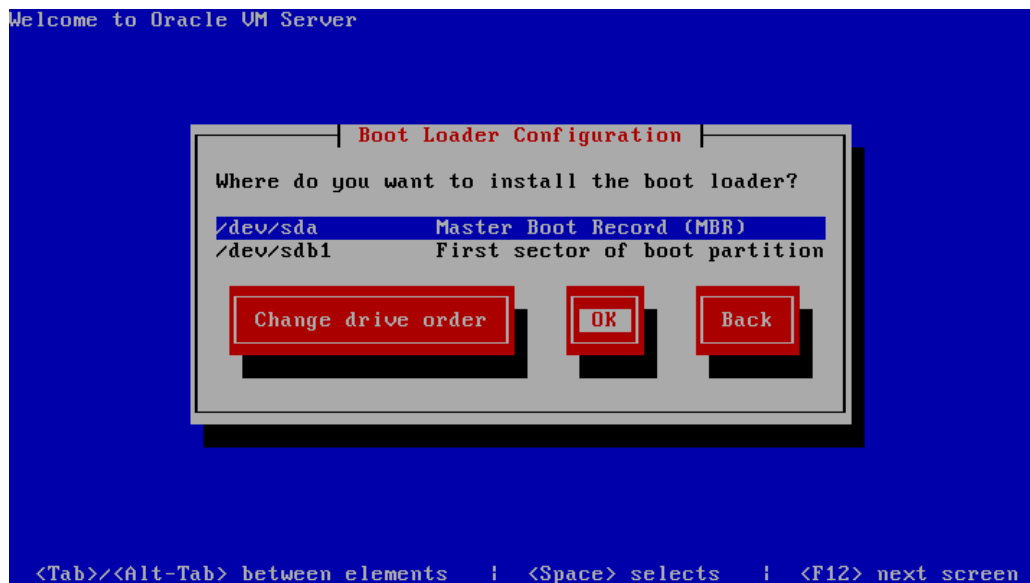
18. Confirm the newly created mount points.



Action:

Select **OK** and press **ENTER**.

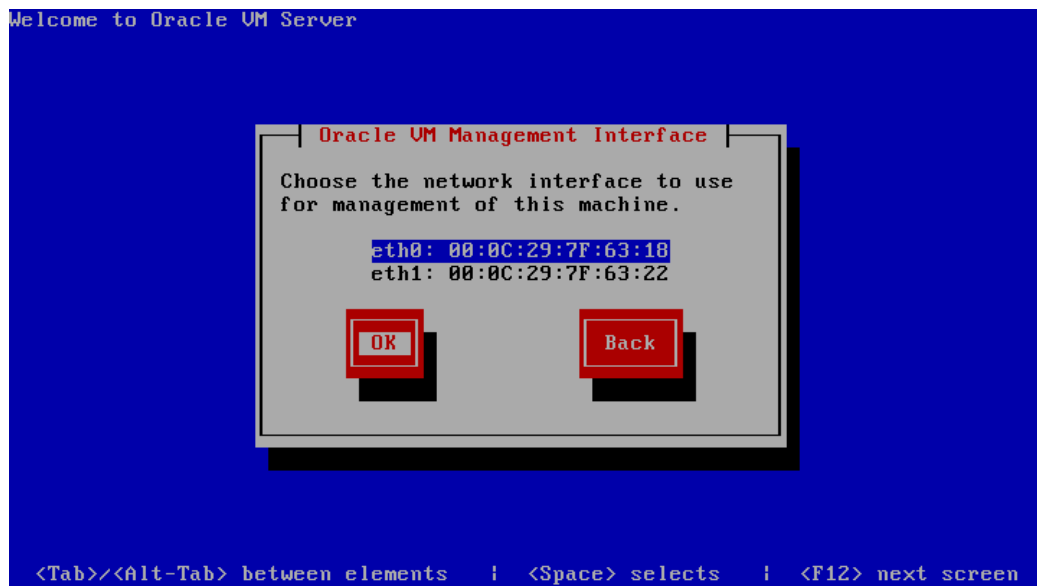
19. The **Boot Loader Configuration** screen is displayed.



Action:

Install the boot loader on the Master Boot Record (MBR) of /dev/sda
Select **OK** and press **ENTER**.

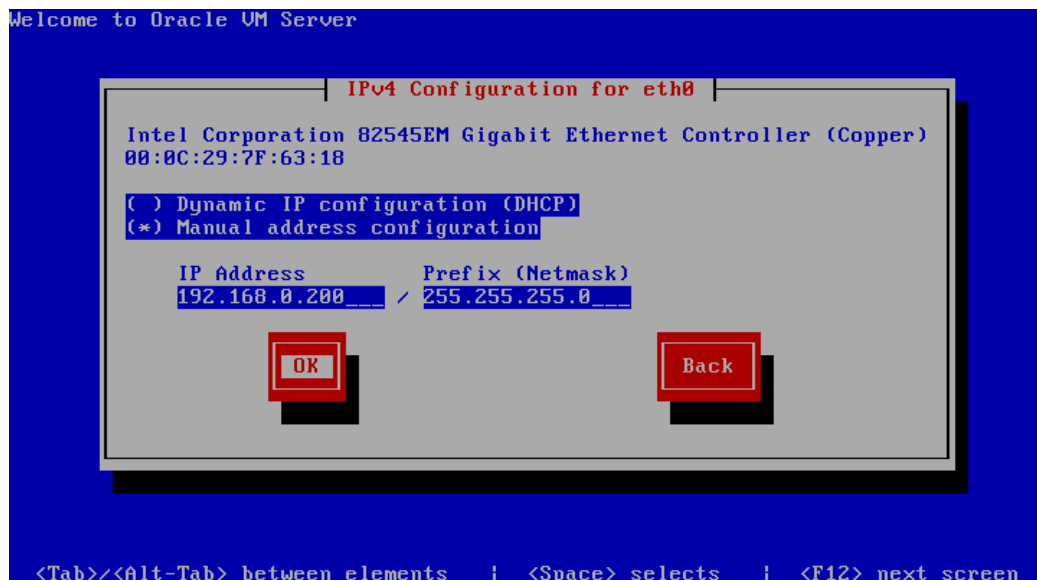
20. The **Oracle VM Management Interface** screen is displayed.



Action:

Choose **eth0** as the network interface to use for management of this machine.
Select **OK** and press **ENTER**.

21. The **IPv4 Configuration** screen is displayed.

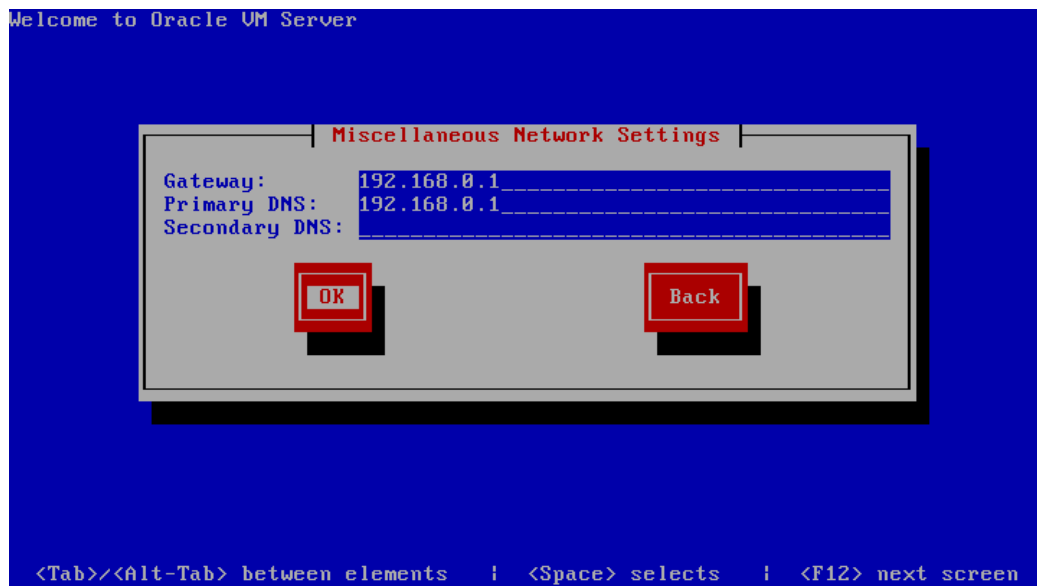


Action:

Configure your network for the eth0 device. Choose the IP address and Netmask suitable for your environment.

Select **OK** and press **ENTER**.

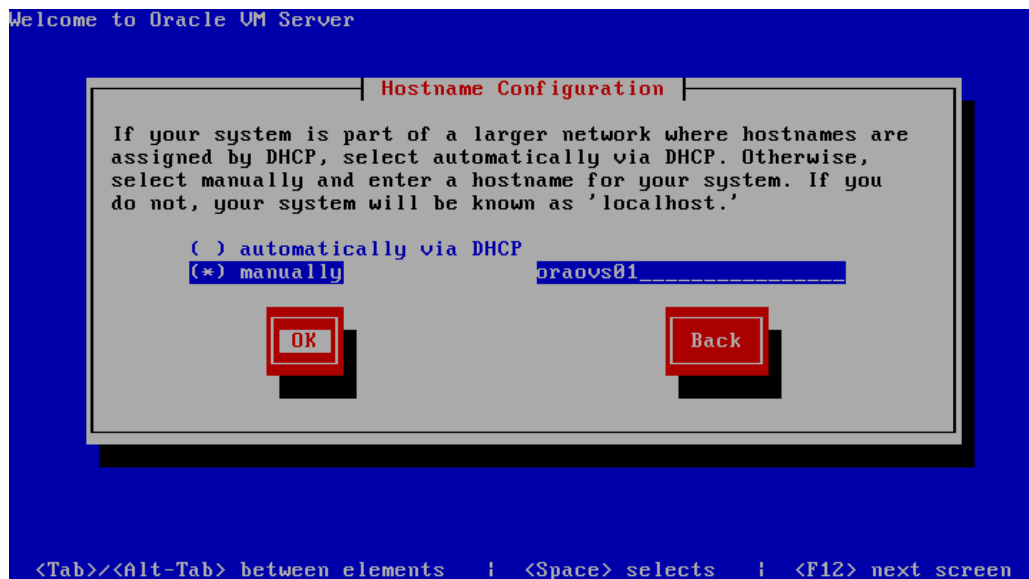
22. The **Miscellaneous Network Settings** screen is displayed.



Action:

Configure the Gateway, Primary DNS and Secondary DNS.
Select **OK** and press **ENTER**.

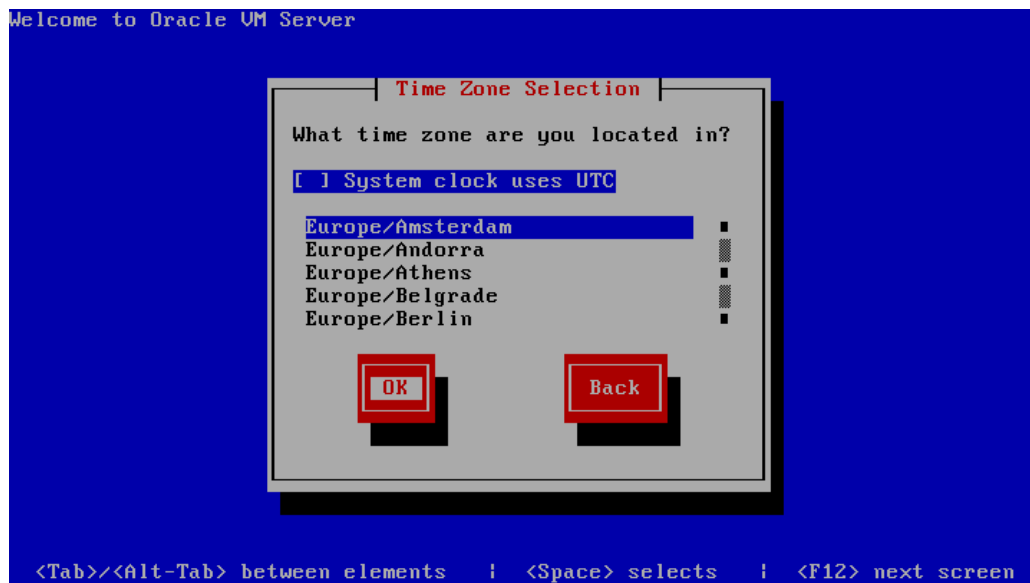
23. The **Hostname Configuration** screen is displayed.



Action:

It is important to always have a static IP address and hostname for your Oracle VM Server.
Assign a name to the Oracle VM Server.
Select **OK** and press **ENTER**.

24. The **Time Zone Selection** screen is displayed.

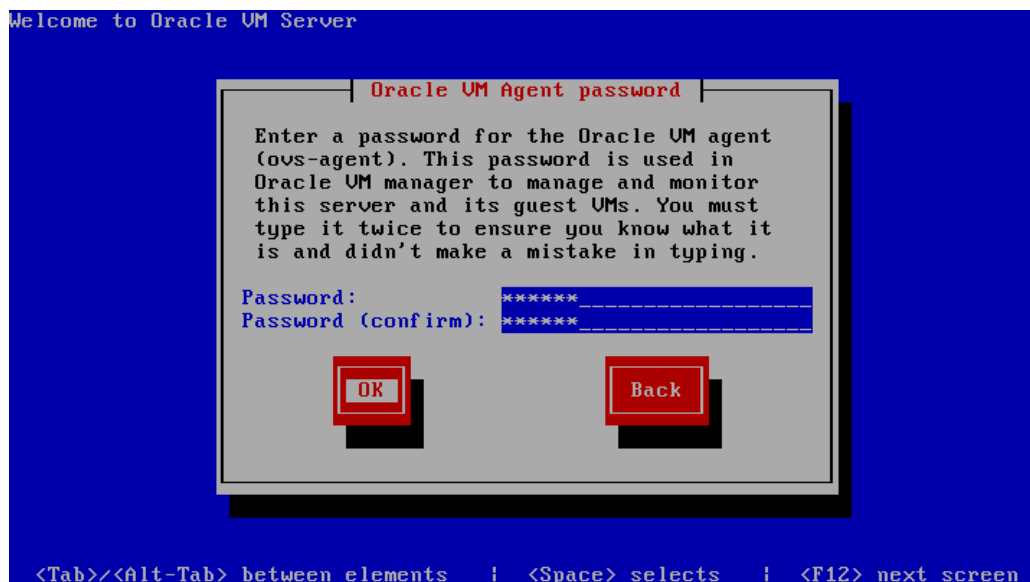


Action:

Choose the time zone where your Oracle VM Server will be provisioned. If you don't want to use UTC, deselect this option.

Select **OK** and press **ENTER**.

25. The **Oracle VM Agent password** screen is displayed.



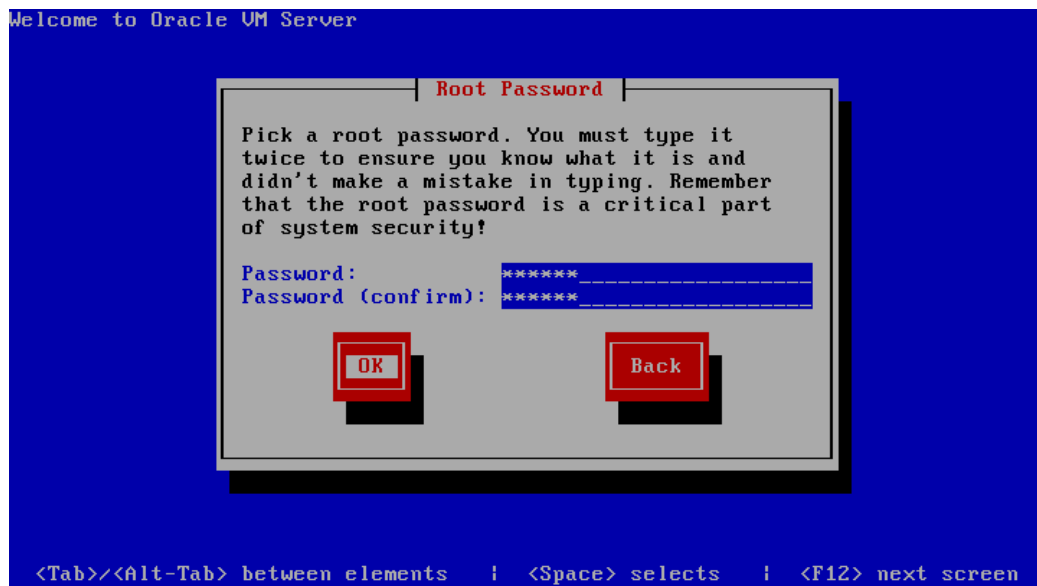
Action:

Enter a password for the Oracle VM Agent (ovs-agent).

This password is used to monitor and manage this VM Server and the guests created and running within it.

Select **OK** and press **ENTER**.

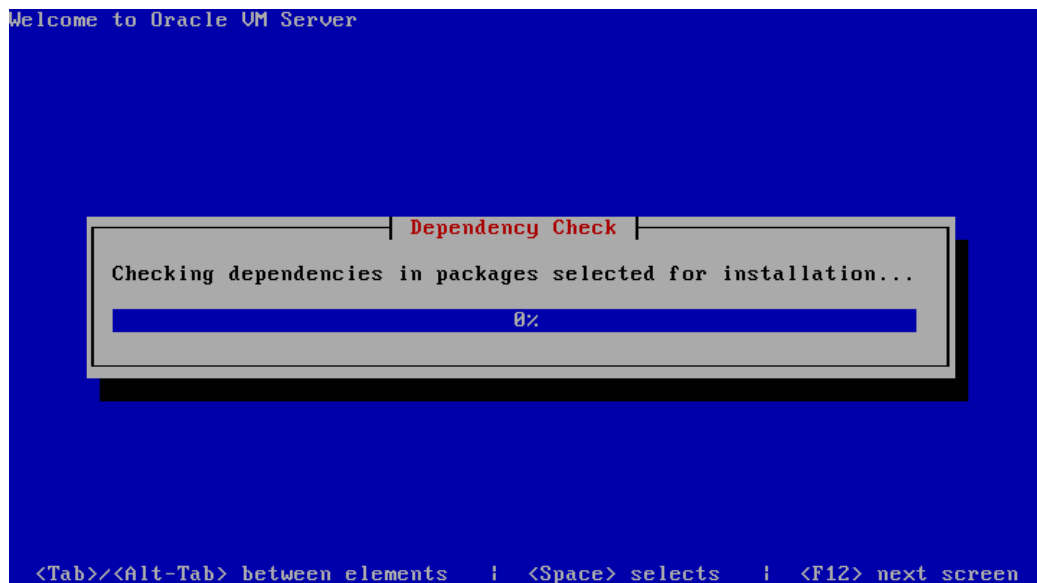
26. The **Root Password** screen is displayed.



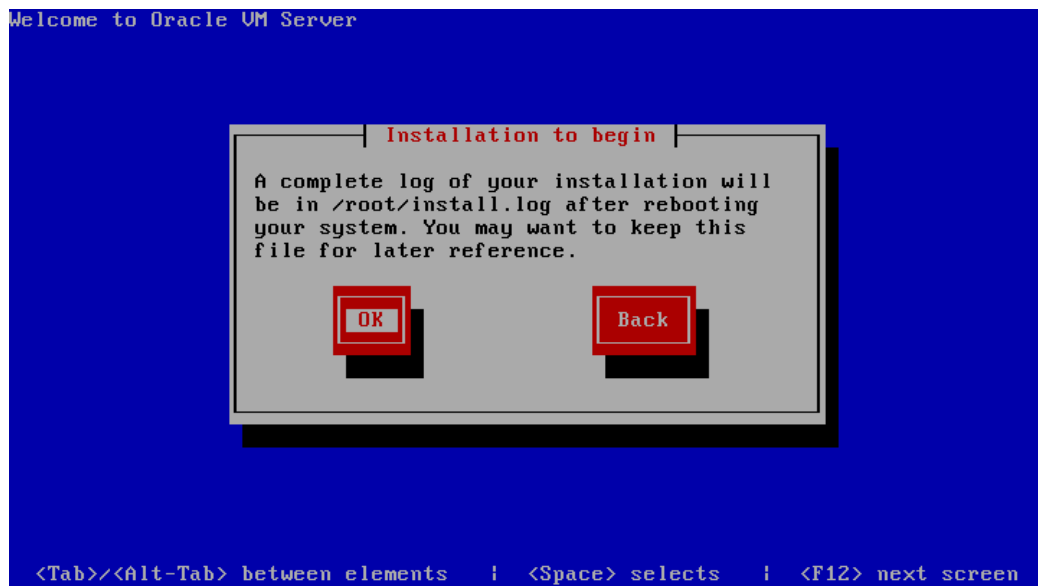
Action:

Enter the password for the root account. The root password must be at least 6 characters long. Select **OK** and press **ENTER**.

27. The dependencies in the packages will be tested.



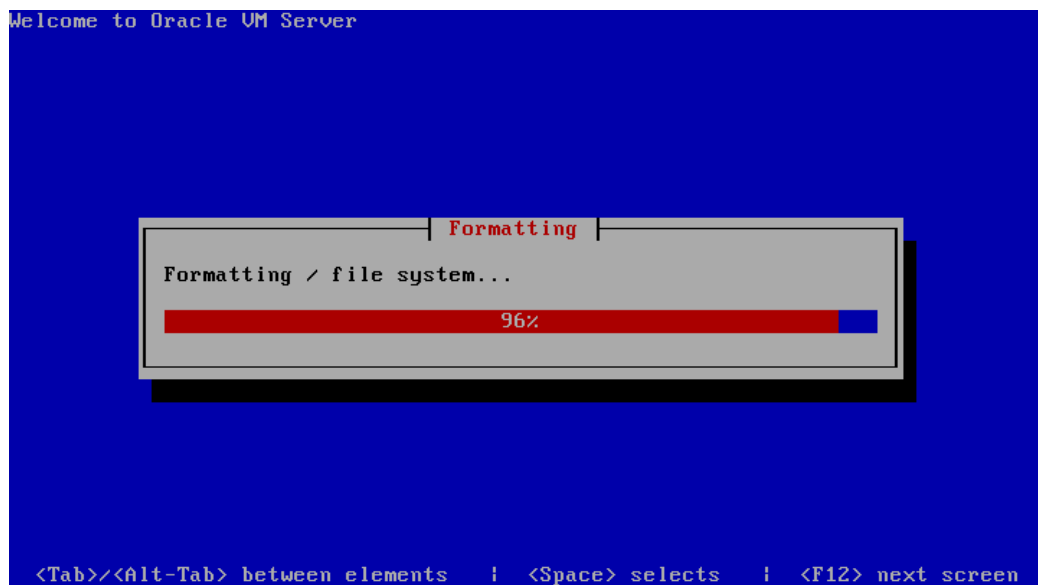
28. The **Installation to begin** screen is displayed.



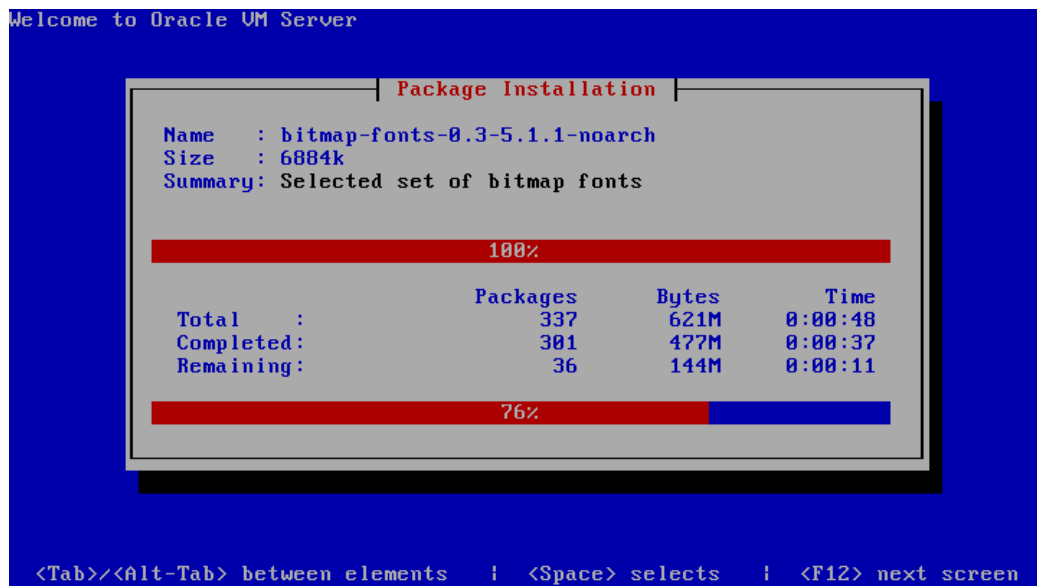
Action:

Select **OK** to start the installation.

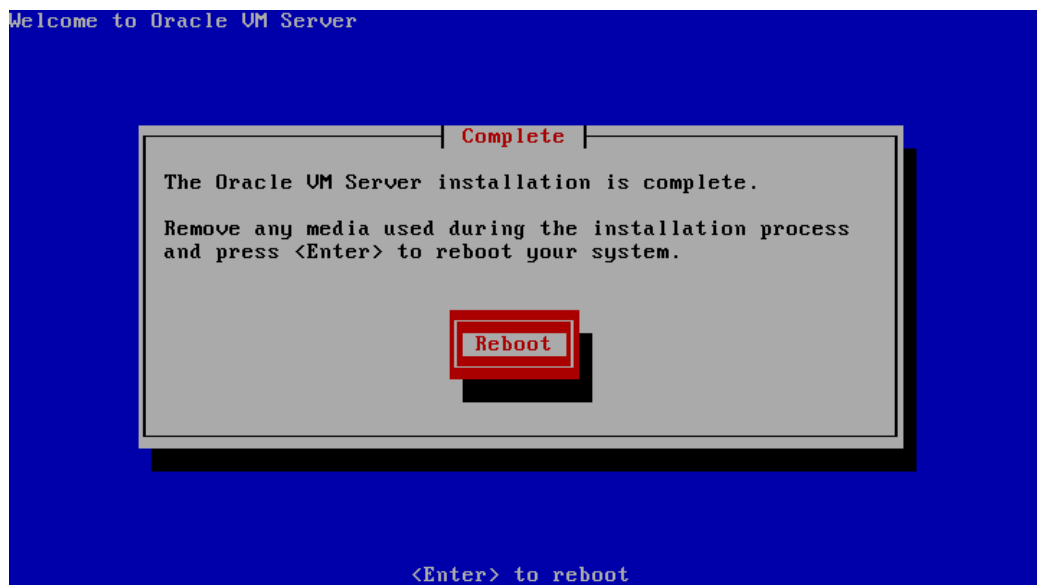
29. The file system will be formatted according to the partitioning layout:



30. The Oracle VM Server is installed within 1-2 minutes, depending on your system:



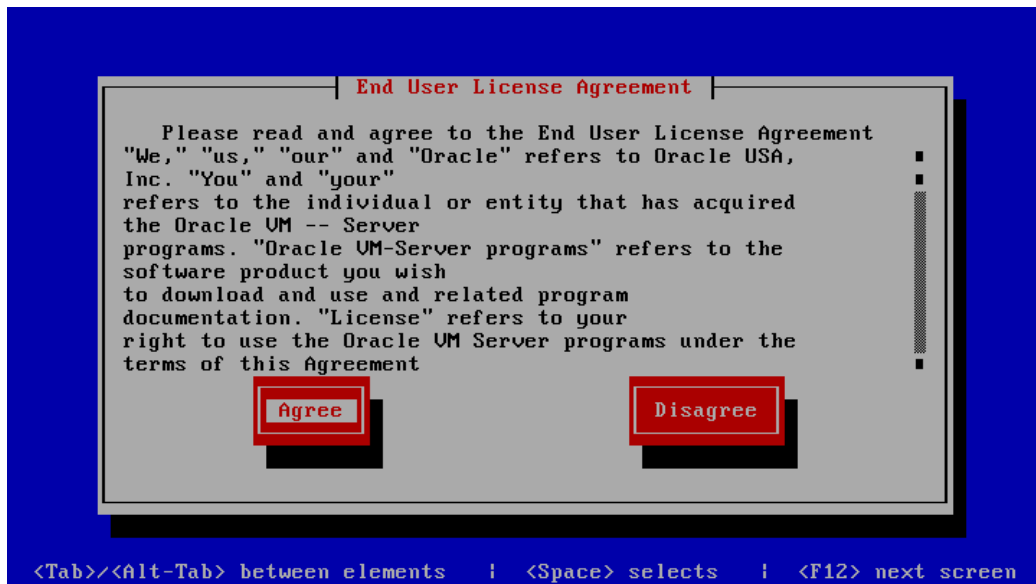
31. The **Complete** screen is displayed after all files are installed and the configuration is complete.



Action:

Remove the Oracle VM Server CDROM, select **Reboot** and press **ENTER**.

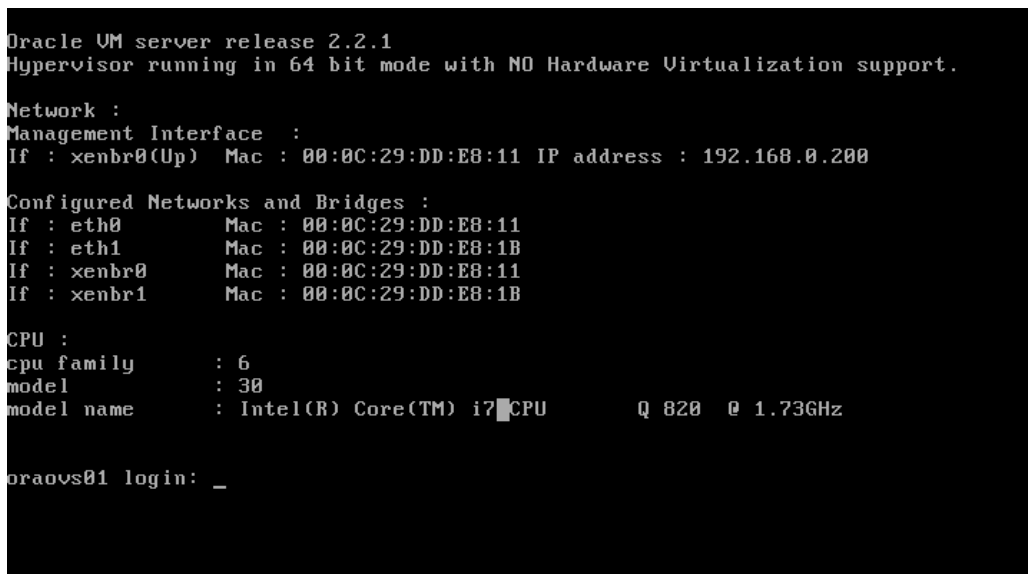
32. The **End User License Agreement** screen is displayed.



Action:

After you have carefully read the EULA (End User License Agreement) select **Agree** to continue.

33. The **Oracle VM Server login prompt** is displayed.



Action:

Log into Oracle VM Server as root using the password set during the install.

At this moment the installation is complete!

The Oracle VM Agent is also started is will be automatically started each time the server is rebooted.