

Tutorial Target	Installing Oracle Linux 6.7 on Virtualbox
Version / Date	1.0 / Jan-2016
Required Software	<ul style="list-style-type: none"> Virtual Software like Oracle VirtualBox or VMWare Workstation. This tutorial tested on Oracle VirtualBox 5.0.12 Oracle Linux 6 Installation Media. This tutorial was performed on Oracle Linux 6.7
Required Hardware	<ul style="list-style-type: none"> Memory to run the VM machine: 4 GB Storage to hold the VM machine: 9 GB

Tutorial Target and Description

This tutorial describes how to install Oracle Linux 6.7 on a VM machine that can then be used as a seed to install Oracle software products, like Oracle Database, Clusterware, Enterprise Manager, Weblogic.. etc.

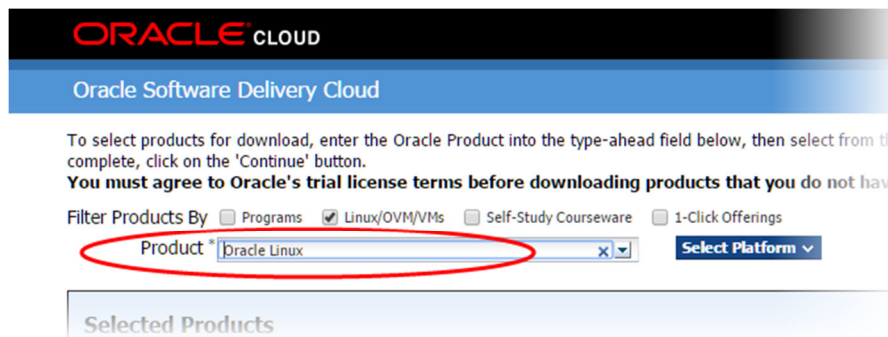
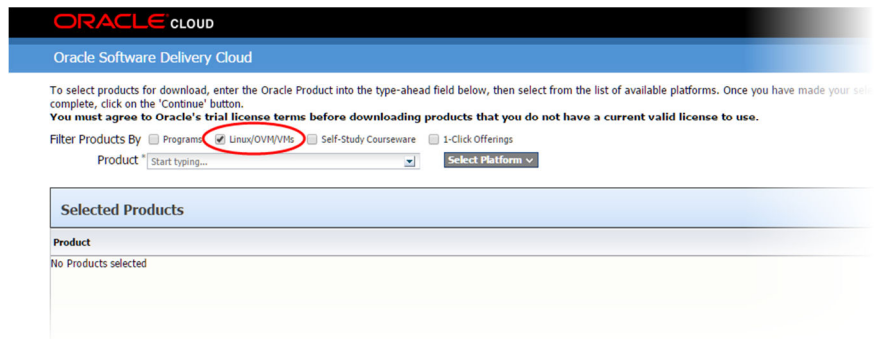
Tutorial Procedure Layout

- A. Download Oracle Linux ISO image from Oracle
- B. Create a new VM Machine, Mount the ISO image in a VM
- C. Start the installer and install the OS
- D. Make some configuration on the installed Linux

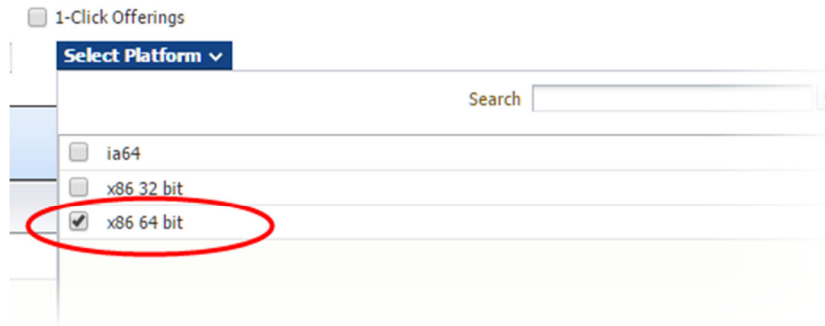
Tutorial Procedure

A. Download Oracle Linux ISO image from Oracle

Download Oracle Linux ISO image from Oracle eDelivery: <https://edelivery.oracle.com/>



products that you do not have a current valid license to use.



Click **Continue**

Click on **Select Alternative Release**

associated with each release you may expand/collapse the list using the arrow to the left of the release name.

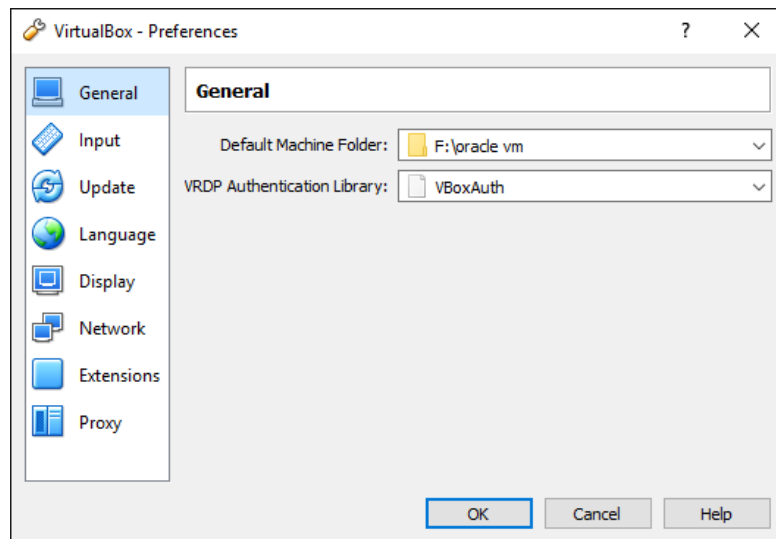


Select **Linux 6.7** and click **Continue**

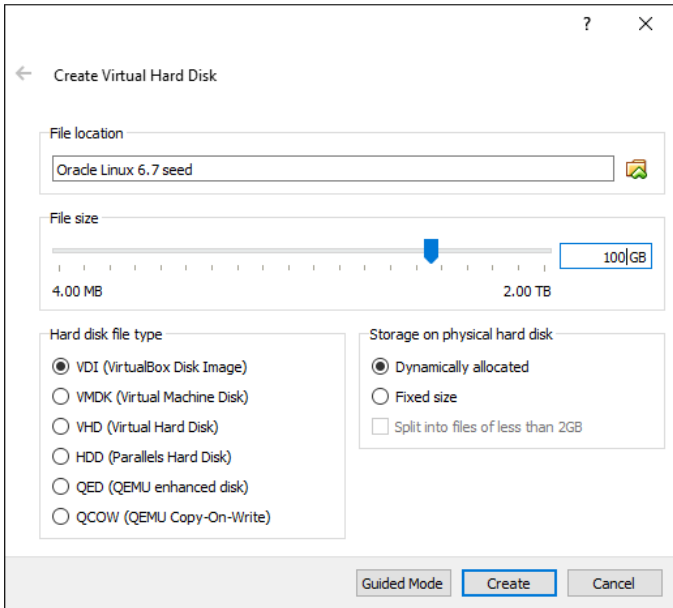
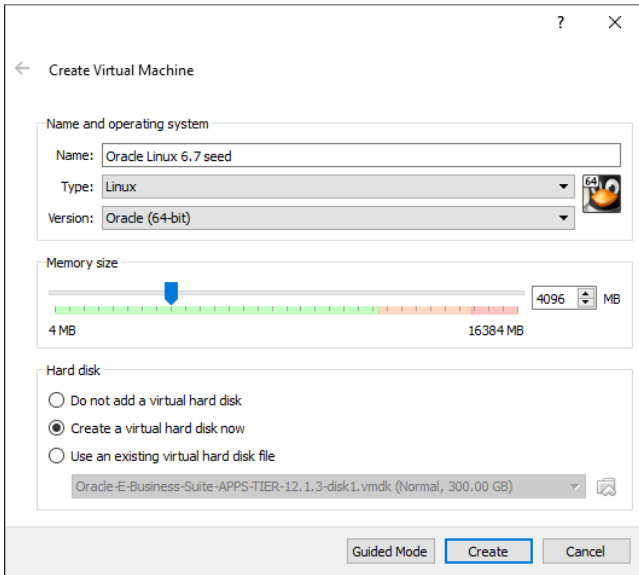
Accept the Terms and Download.

B. Create a new VM Machine, Mount the ISO image in a VM and start the installer

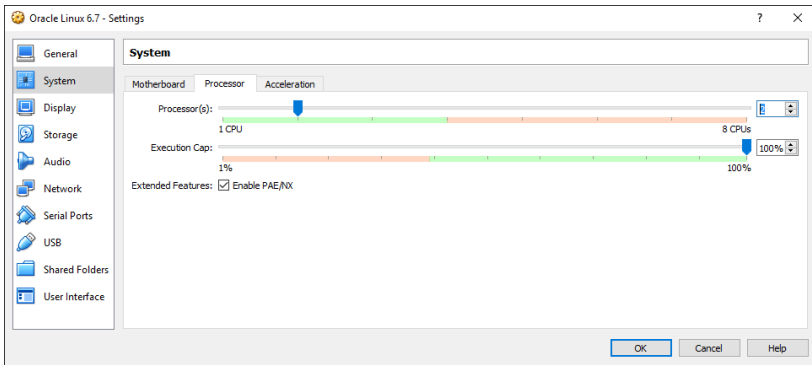
Define in the default location of your new VM machine in the settings:

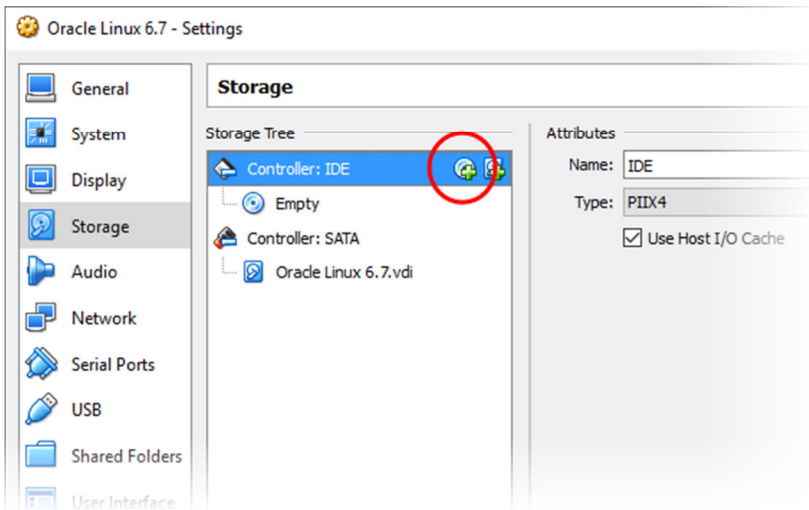


Create a new VM in an Expert Mode:



Make some changes on the settings:





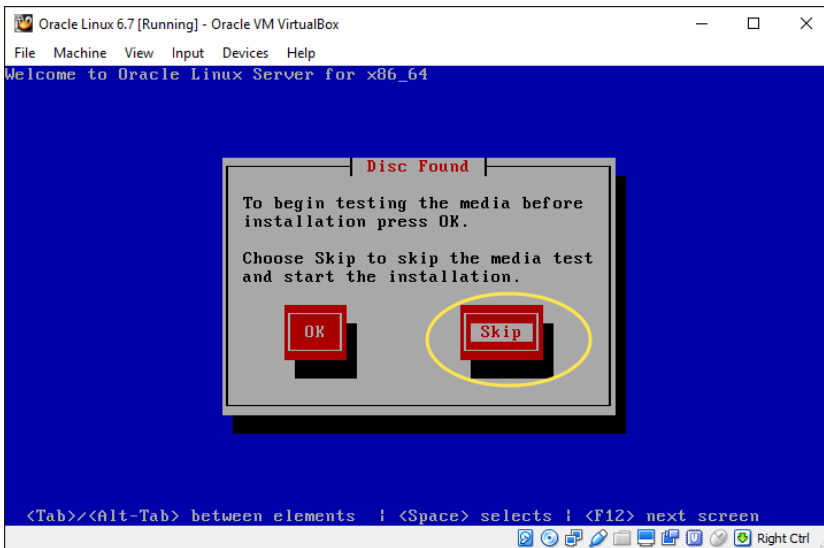
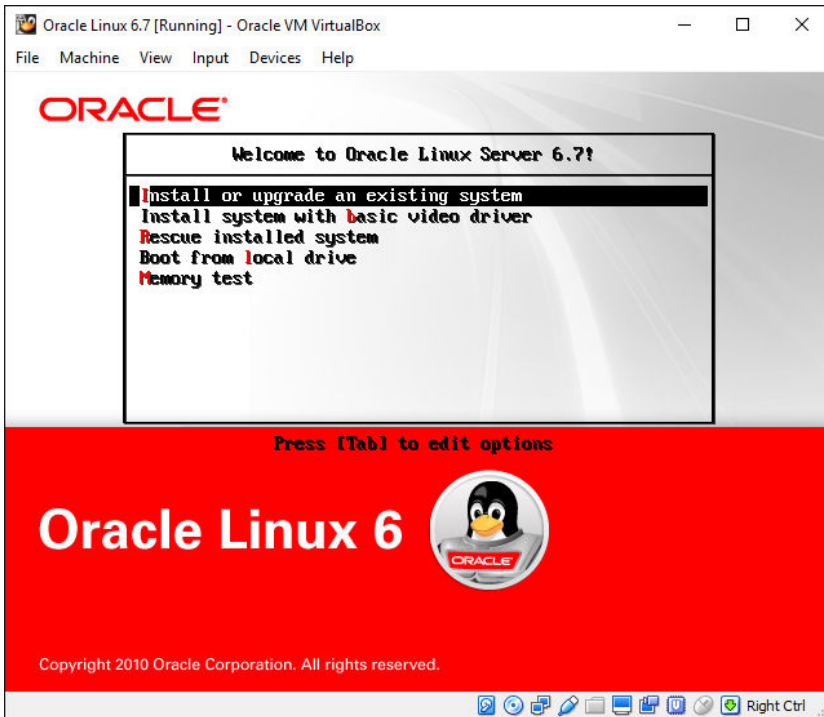
Select the ISO file.

Name	Date modified	Type	Size
V77195-01.iso	11-Jan-16 1:28 AM	WinRAR archive	3,150,162 KB
V77196-01.iso	11-Jan-16 1:35 AM	WinRAR archive	2,345,536 KB
V77197-01.iso	11-Jan-16 1:46 AM	WinRAR archive	3,822,592 KB
V77198-01.iso	11-Jan-16 1:46 AM	WinRAR archive	238,592 KB
V77199-01.iso	11-Jan-16 1:47 AM	WinRAR archive	247,808 KB

Click **Start**

C. start the installer and install the OS

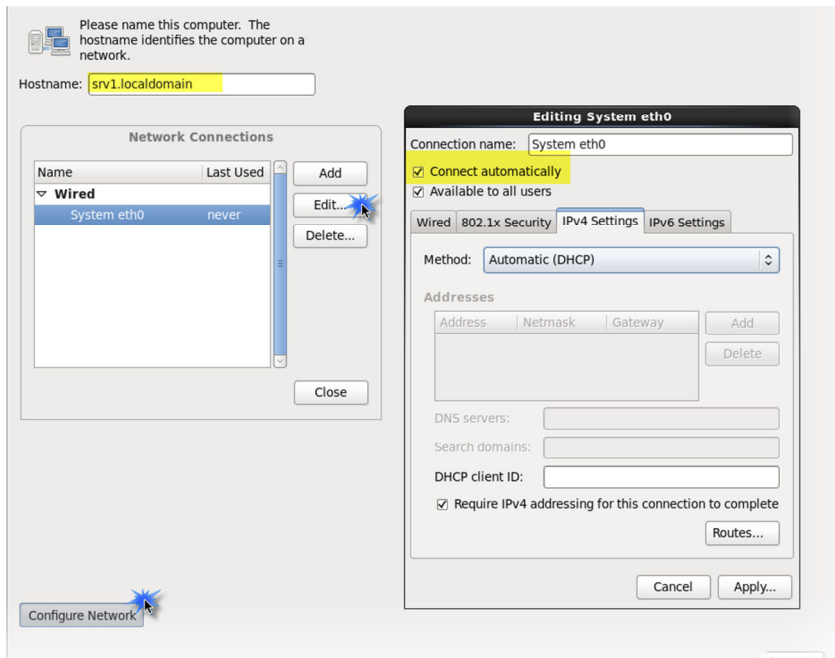
Tip: right CTL to release mouse from the VM



Select Language Next

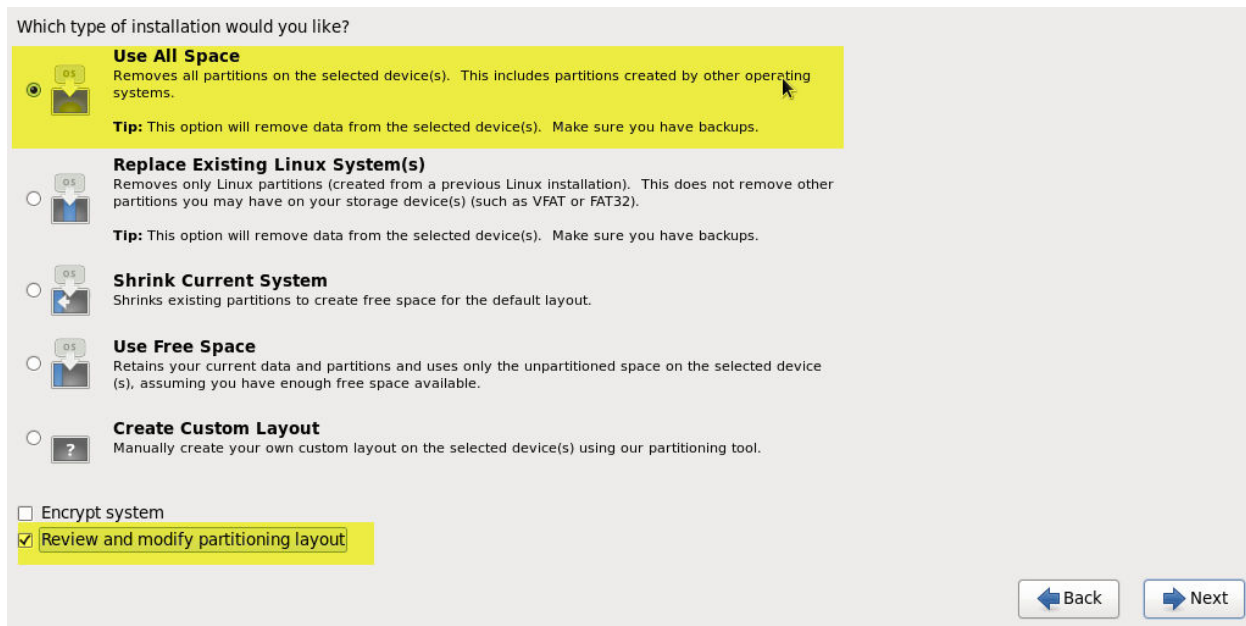
Basic Storage Next

Click Discard Any Data button



Select the region

Enter root password



Please Select A Device

Device	Size (MB)	Mount Point/ RAID/Volume	Type	Format
LVM Volume Groups				
vg_srv1 101896				
lv_root	93896	/	ext4	✓
lv_swap	8000		swap	✓
Hard Drives				
sda (/dev/sda)				
sda1	500	/boot	ext4	✓
sda2	101899	vg_srv1	physical volume (LVM)	✓

Writing storage configuration to disk



The partitioning options you have selected will now be written to disk. Any data on deleted or reformatted partitions will be lost.

Go back

Write changes to disk

Click Next

The default installation of Oracle Linux Server is a basic server install. You can optionally select a different set of software now.

- Basic Server
- Database Server
- Web Server
- Identity Management Server
- Virtualization Host
- Desktop
- Software Development Workstation
- Minimal

Please select any additional repositories that you want to use for software installation.

- High Availability
- Load Balancer
- Oracle Linux Server

Add additional software repositories

Modify repository

You can further customize the software selection now, or after install via the software management application.

- Customize later
- Customize now

Back

Next

Base System

- Servers
- Web Services
- Databases
- System Management
- Virtualization
- Desktops
- Applications
- Development
- UEK3 kernel repo
- Languages

- Backup Client
- Base
- Compatibility libraries
- Console internet tools
- Debugging Tools
- Dial-up Networking Support
- Directory Client
- FCoE Storage Client
- Hardware monitoring utilities
- Infiniband Support
- Java Platform
- Large Systems Performance
- Legacy UNIX compatibility
- Mainframe Access
- Network file system client
- Networking Tools**
- Performance Tools
- Perl Support

Tools for configuring and analyzing computer networks.

Optional packages selected: 2 of 17

Optional packages

Back Next

Base System

- Servers**
- Web Services
- Databases
- System Management
- Virtualization
- Desktops
- Applications
- Development
- UEK3 kernel repo
- Languages

- Backup Server
- CIFS file server
- Directory Server
- E-mail server
- FTP server
- Identity Management Server
- NFS file server
- Network Infrastructure Server
- Network Storage Server
- Print Server
- Server Platform
- System administration tools**

Packages in System administration tools

Some packages associated with this group are not required to be installed but may provide additional functionality. Please choose the packages which you would like to have installed.

- mc-4.7.0.2-3.el6.x86_64 - User-friendly text console file manager and visual s
- mgetty-1.1.36-9.el6.x86_64 - A getty replacement for use with data and fax r
- ocfs2-tools-1.8.0-11.el6.x86_64 - Tools for managing the Oracle Cluster Files
- oracle-rdbms-server-11gR2-preinstall-1.0-12.el6.x86_64 - Sets the syst
- oracle-rdbms-server-12cR1-preinstall-1.0-14.el6.x86_64 - Sets the syste
- oracledasm-support-2.1.8-1.el6.x86_64 - The Oracle Automatic Storage Man
- pexpect-2.3-6.el6.noarch - Pure Python Expect-like module
- rdist-6.1.5-49.el6.x86_64 - Maintains identical copies of files on multiple mac
- rrdtool-1.3.8-7.el6.x86_64 - Round Robin Database Tool to store and display t
- screen-4.0.3-18.el6.x86_64 - A screen manager that supports multiple logins


Optional packages selected: 0 of 22

Optional packages


Back Next

Base System
Servers
Web Services
Databases
System Management
Virtualization
Desktops
Applications
Development
UEK3 kernel repo
Languages

- Desktop
- Desktop Debugging and Performance Tools
- Desktop Platform
- Fonts
- General Purpose Desktop
- Graphical Administration Tools
- Input Methods
- KDE Desktop
- Legacy X Window System compatibility
- Remote Desktop Clients
- X Window System




ORACLE

Oracle Linux 6 

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Packages completed: 28 of 892

Installing glibc-common-2.12-1.166.el6.x86_64 (107 MB)
Common binaries and locale data for glibc

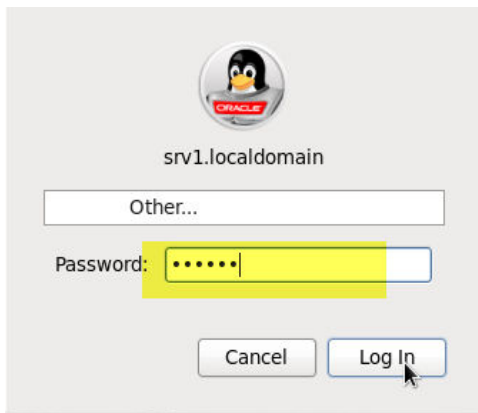
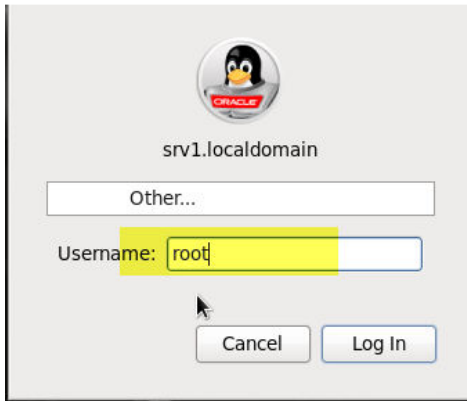
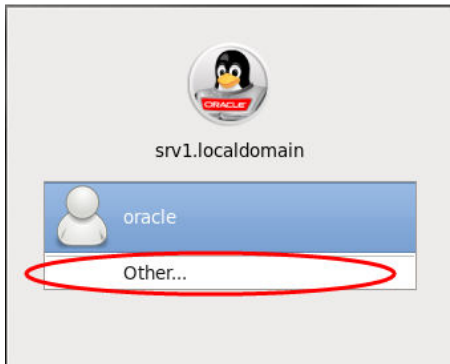


Congratulations, your Oracle Linux Server installation is complete.

Please reboot to use the installed system. Note that updates may be available to ensure the proper functioning of your system and installation of these updates is recommended after the reboot.

[← Back](#) [→ Reboot](#)

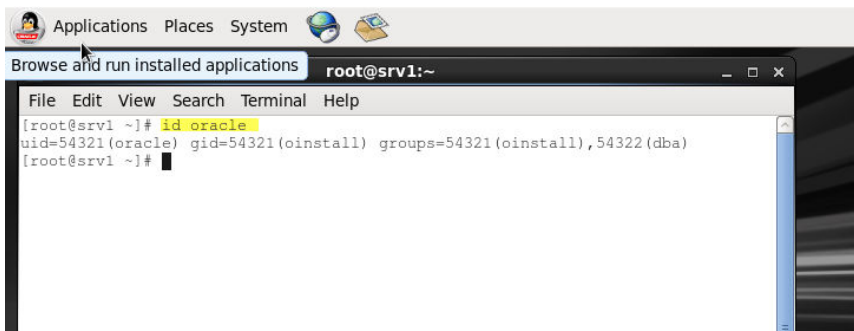
After reboot, Click on **Forward**



Tip: to turn the auto-scale windows of the VM machine on and off, use the hotkey hostKey+ C.

D. Make some configuration on the installed Linux

Check oracle user is there:



Set secure Linux to permissive

edit /etc/selinux/config file and set SELINUX = permissive

To apply changes, restart the server or execute the following command:

```
setenforce permissive
```

Disable firewall

```
service iptables stop  
chkconfig iptables off
```

Create oracle base directory:

```
mkdir -p /u01/app/oracle/product  
chown -R oracle:oinstall /u01  
chmod -R 775 /u01
```

Create a user and grant it privileges (optional)

```
useradd -m -n orauser  
passwd orauser
```

Let's make that user also belong to "dba" group:

```
usermod -g users -G dba orauser
```

allow users belongs to "dba" group switching to an oracle account (this will open vi for you):

```
visudo
```

add the following line to make dba group members execute any command by any user:

```
%dba ALL=(ALL) ALL
```

to allow it to switch to oracle only, add the following instead:

```
%dba ALL = /bin/su - oracle, !/bin/su *root*
```

To test that:

```
sudo su - oracle
```

Install Guest Additions in the VM machine

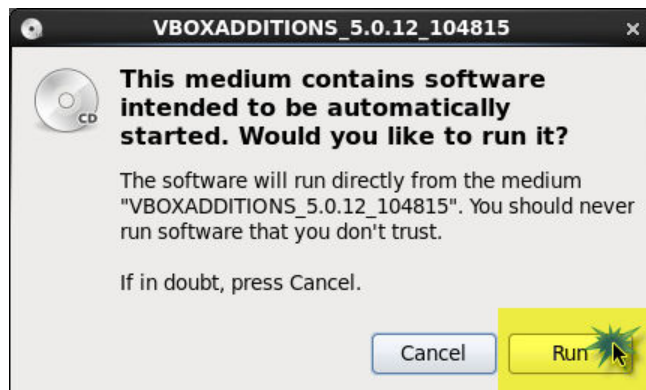
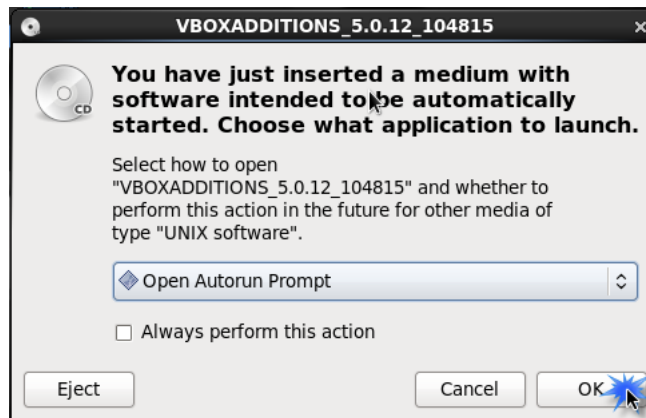
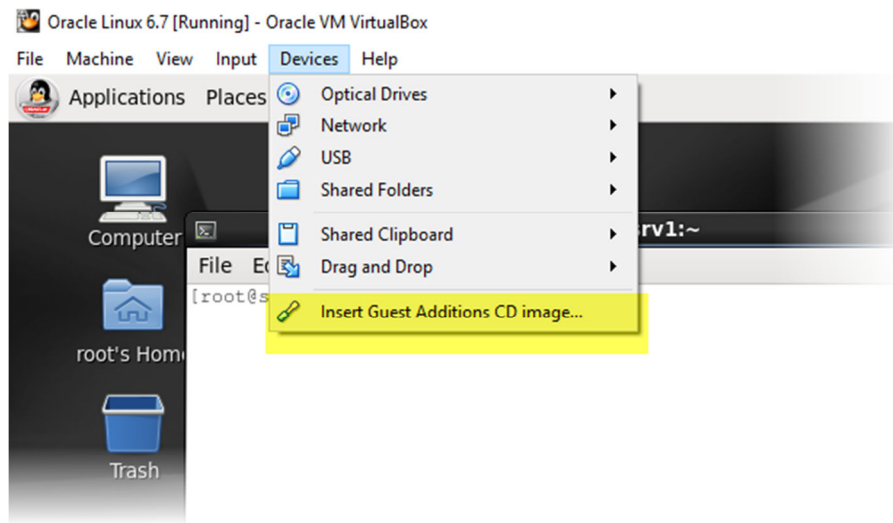
Guest Additions won't work if you install it immediately after performing the steps above. It requires "kernel source".

To install it through yum, perform the following:

```
wget http://public-yum.oracle.com/public-yum-ol6.repo  
# the following installed 277MB in my test and took about 15 minutes to finish:  
yum update
```

```
# this will actually be installed by the "yum update" command. I just run it to confirm it is there:  
yum install kernel-uek-devel
```

IF all went good with you, mount the Guest Additions CD image to start installing them, as shown below:



After installation, restart the box.

You will notice that the mouse pointer will be captured by the VM machine once you hover the pointer anywhere inside the VM window. You don't have click inside it.

Also, these Additions will allow you to share files between your host machine and VM machine.