### Mail:-info@premieronlinetrainings.com

- $\checkmark$  Introduction
- ✓ Install Oracle VirtualBox
- ✓ Create a Virtual Machine
- ✓ Installing Oracle Enterprise Linux 6.3
- ✓ Install Guest additions.
- ✓ Disable the firewall

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#### Introduction

Windows users looking to use Linux for the first time will find it beneficial to try it out in a virtual machine.

The pros for installing Linux in a virtual machine include:

The ability to try a version of Linux without affecting the Windows host machine

The virtual Linux operating system will perform the same way as it would when installed to the physical hard drive

Software installed into the virtual machine remains intact and can be used even after a reboot.

The virtual machines can be backed up and restored easily so if you mess up it isn't so much of an issue

#### Install VirtualBox

Navigate to the downloads folder on your computer and double click on the VirtualBox installer.

#### Welcome screen



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Version 3.5.5	< Book Tuessi Carriel		on on
You are now rea	dy to install Oracle VirtualBo	х.	5.
Click "Install" to	start the installation.		
194 Oracle VM Virtualisok 5.04	или запор		
Oracle VM VirtualBox 5.0	.0_RCJ		
Plaess wolt while the Si take several minutes. Status:	tup Witzerd installs Gracle VM VirtuelBox 5.0.0_RC3. This n		
Version 5.0.0	< Back Back Back > Control of the second sec	Cancel	
	Oracle VM VirtualBox 5.0.0_RC3 installation is complete. Dick the Finish buttle to exit the Setua Witzerd.		
Version 5.6.0	Cited Freeh Groot	Click on finish	

Accept All Warning

During the installation you may be asked for permission to install the application and your antivirus and firewall software may request permission to install VirtualBox.

### **Create a Virtual Machine**

#### Introduction

Virtual Box allows you to run an entire operating system inside another operating system.

Start VirtualBox and click the "New" button on the toolbar. Click the "Next" button on the first page of the Virtual Machine Wizard.



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Note: Make sure you choose the correct version. You must choose 32-bit if your host computer is a 32bit machine. If you are using a 64-bit machine you can choose either 32-bit or 64-bit but obviously 64-bit is recommended

If you have 32 GB of RAM in your host system, then set Base Memory to 3072 MB, otherwise use 2048 MB, as in the screenshot below, then click the "Next" button:



Accept the default option to create a new virtual hard disk by clicking the "Next" button:



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Accept the default VDI type and click the "Next" button on the Virtual Disk Creation Wizard welcome screen:

? 📉	
📀 Create Virtual Hard Disk	
Hard disk file type	
Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.	
VDI (VirtualBox Disk Image)	
<ul> <li>VHD (Virtual Hard Disk)</li> </ul>	
O VMDK (Virtual Machine Disk)	1 A.S.
	• • • • • •
	X
Expert Mode Next Cancel	

Accept the default "Dynamically allocated" option by clicking the "Next" button:

? ×			
Create Virtual Hard Disk			
Storage on physical hard disk			
Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).			
A <b>dynamically allocated</b> hard disk file will only use space on your physical hard disk as it fills up (up to a maximum <b>fixed size</b> ), although it will not shrink again automatically when space on it is freed.			
A <b>fixed size</b> hard disk file may take longer to create on some systems but is often faster to use.			
Opnamically allocated			
○ Fixed size			
Next Cancel			

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? ×	
📀 Create Virtual Hard Disk	
File location and size	
Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.	-
D:\ASMDB11g\ASMDB11g.vdi	
Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.	S.
100.00 GB	65.
4.00 MB 2.00 TB	
	0
Create Cancel	

Select the vdi file location

Press the "Create" button on the Create New Virtual Machine Summary screen:

General	Storage		
<ul> <li>System</li> <li>Displey</li> <li>Storage</li> <li>Audio</li> <li>Audio</li> <li>Network</li> <li>Serial Ports</li> <li>USB</li> <li>Shared Folders</li> <li>User interface</li> </ul>	Storage Tree Controller: IDE Controller: SATA Controller: SATA SMOB11g.vdi	Attributes Optical Drive: IDE Secondary Mas Use CD/DVD Information Type: Intege Size: 3.42 GB Location: D:(Software(DEL6.) Attached to: Database 11g	aar 🔹 🤆
	E 🖬 🕹 😂		

In "Attributes" section click on the DVD disk icon and choose DVD .iso file. Note that name of the file shows in the Storage Tree. Then press 'OK":

### **Linux Installation**



😂 ASMDB11g [Running] - Oracle VM VirtualBox – 🗖 🗙
File Machine View Input Devices Help
isboore: registered new interface driver hub nYouhave the <b>Auto capture keyboard</b> option tuned on. This will cause the Virtual Machine to automatically <b>capture</b> the keyboard 🛞 🚫
PCT: Using ACPT for THQ Fouting NetLabel: Initializing NetLabel: domain hash size = 128 NetLabel: protocols = UNLABELED CIPSOv4 NetLabel: unlabeled traffic allowed by default Switching to clocksource kvm-clock pnp: PnP ACPT init ACPT: bus type pnp registered pnp: PnP ACPT: found 4 devices ACPT: ACPT bus type pnp unregistered NET: Registered protocol family 2 NET: Registered protocol family 2
TCP established hash table entries: 524288 (order: 11, 8388608 bytes) TCP bind hash table entries: 65536 (order: 8, 1048576 bytes) TCP: Hash tables configured (established 524288 bind 65536) TCP reno registered NET: Registered protocol family 1 pci 0000:00:00:00.0: Limiting direct PCI/PCI transfers pci 0000:00:01.0: Activating ISA DMA hang workarounds pci 0000:00:06.0: PCI INT A -> GSI 22 (level, low) -> IRQ 22 pci 0000:00:06.0: PCI INT A disabled Trying to unpack rootfs image as initramfs
드 

Do not perform the media test. Choose "Skip" button:

Start the virtual machine by clicking the "Start" button on the toolbar. The resulting console window will contain the Oracle Linux boot screen.



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network then enter ipaddress.

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XOURD TO CONTRACTION	
	( ) BOI
. 2042-540	Select the Asia/Kolkata
	Enter root password
Weak Password	
You have provided a weak password: it i based on a dictionary word	s
<u>Cancel</u> <u>U</u> se Anyway	Click on use anyway

Mail:-info@premieronlinetrainings.com Contact Number: - +91 9000774266 Nue All Lynne Harris £i 100 \$2e5 \$3ec Select Create custom layout and next PRINT Please Select A Device Ger Hand Rock/ Service 00000 /uris 20000 / 10000 42200 2000 /true 144.4 \_\_\_\_\_ Pear wint / wine Click on create and ICP/USEDUSING INT Then create the Linux mount points.

Format Warnings	
The following pre-existing devices have been select formatted, destroying all data.	red to be
/dev/sda partition table (MSDOS)	Som
<u>C</u> ancel <u>E</u>	ormat Select format
Writing storage configuration to dist           Image: Market state in the partition of the partin of the partin of the partition of the partition of the partiti	k ed will ted or
Go <u>b</u> ack <u>W</u> rite changes to	disk
Port (Section Control of Con	Select write changes to disk
(den) Boderstaten	Click on next

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Don't create 'oracle' account, this will be done later..

#### **Click on Forward**



Press on Finish

Congratulations! The Linux has been installed

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5.

### Install Guest additions.

Guest Additions are optional, but highly recommended. Guest Additions allow better integration of mouse support and clipboard bidirectional copying. Another important feature is support of shared folders making files in Host OS visible to Guest. The remaining of this document assumes that Guest Additions are installed.

In order to install Guest Additions, reboot just created VM, login as root. Then in the window menu select Devices | Install Guest Additions. Go through the download until you see DVD Autorun screen:

Consector	
TEAL'S HERE'S	
- And -	You have just inserted a medium with
0	software intended to be automatically started. Choose what application to launch.
Vac Aberron 114, 11028	Select how to open "VEGAADDTTONS, 3.1.1.4_130228" and whether to perform this action is the future for other media of type "UNIX selfaware".
	🗣 Open Autorus Prompt 🛛 🖉
	🗋 Anays perform this action
	Det Devel DK Press on OK
	FIESS OF OK
0	VBOXADDITIONS_5.1.4_110228
•	VBOXADDITIONS_5.1.4_110228 ×
	VBOXADDITIONS_5.1.4_110228 × This medium contains software
•	VBOXADDITIONS_5.1.4_110228 × This medium contains software intended to be automatically started. Would you like to run it?
0	VBOXADDITIONS_5.1.4_110228 × This medium contains software intended to be automatically started. Would you like to run it?
	VBOXADDITIONS_5.1.4_110228       ×         This medium contains software intended to be automatically started. Would you like to run it?         The software will run directly from the medium
	VBOXADDITIONS_5.1.4_110228       ×         This medium contains software intended to be automatically started. Would you like to run it?         The software will run directly from the medium "VBOXADDITIONS_5.1.4_110228". You should never run software that you don't trust.
	VBOXADDITIONS_5.1.4_110228       ×         This medium contains software intended to be automatically started. Would you like to run it?         The software will run directly from the medium "VBOXADDITIONS_5.1.4_110228". You should never run software that you don't trust.
	VBOXADDITIONS_5.1.4_110228       ×         This medium contains software intended to be automatically started. Would you like to run it?         The software will run directly from the medium "VBOXADDITIONS_5.1.4_110228". You should never run software that you don't trust.         If in doubt, press Cancel.
	VBOXADDITIONS_5.1.4_110228       ×         This medium contains software intended to be automatically started. Would you like to run it?         The software will run directly from the medium "VBOXADDITIONS_5.1.4_110228". You should never run software that you don't trust.         If in doubt, press Cancel.
	VBOXADDITIONS_5.1.4_110228       ×         This medium contains software intended to be automatically started. Would you like to run it?         The software will run directly from the medium "VBOXADDITIONS_5.1.4_110228". You should never run software that you don't trust.         If in doubt, press Cancel. <u>Cancel</u> <u>Run</u>

Press "Run" to start installation.

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Note. If the installation is fail complaining on missing kernel-uek-devel package providing a 'yum' command to install this package. Run this command - that's why we need Internet access. Also install another package: 'yum install gcc'. Then reinstall Guest Additions by double-clicking on VBOXADDITIONS DVD icon on the desktop, and clicking "Open Autorun Prompt" button.

Reboot the machine. Now you should be much happier about the VirtualBox!

**Disable the firewall:** Linux Main menu | System | Administration | Firewall. Click on "Disable" icon, then on "Apply".

<b>F</b>		Firewall Configura	tio	n		□ ×
<u>File Options Help</u>						
Wizard Apply F	Reload	Enable Disable				
Trusted Services	1	ro you can dofino which corvicos	250	tructed Tructed con	vices are accessible t	rom
Other Ports	all	hosts and networks.	are	d dated, il dated sel	vices are accessible i	1 GIN
Trusted Interfaces		Service	$\sim$	Port/Protocol	Conntrack Helper	
Masquerading	C	Amanda Backup Client		10080/udp	amanda	
Port Forwarding ICMP Filter	Ľ	Bacula		9101/tcp, 9102/tcp 9103/tcp	h	m.c
Custom Rules		Bacula Client		9102/tcp		
		DNS.		53/tcp, 53/udp		
		FTP		21/tcp	ftp	
	1			993/tcp		
		IPsec		/ah, /esp, 500/udp		
		Mail (SMTP)		25/tcp		
		Multicast DNS (mDNS)		5353/udp		
		Network Printing Client (IPP)		631/udp		
		Network Printing Server (IPP)		631/tcp, 631/udp		
	A	Allow access to necessary servi	ices	, only.		
The firewall is disable	d. (m	odified)				