Installing VirtualBox for Linux

1. FIRST CHECK THAT YOUR COMPUTER'S SPECS ALLOW FOR VIRTUALIZATION.

2. Go to <u>www.virtualbox.org/wiki/Downloads</u>



- 3. Choose the package based on which operating system your computer currently runs.
- 4. If you are using Windows, double-click the setup file and follow the prompts to install. If you are using a Mac, open the DMG file that you downloaded and drag the VirtualBox file to your Applications folder.
- 5. VirtualBox allows you to manage your various virtual machines, and easily create new ones. You can run VirtualBox directly from the installation program, or you can start it from the desktop icon.
- 6. Now go to <u>http://www.ubuntu.com/download/desktop</u>.
- 7. Choose your OS and click Download.
- 8. Choose whether you want to donate money to Ubuntu. (Not required)

- 9. Click Download.
- 10. Afterwards, launch VirtualBox from the Windows Start menu, click on New to create a new virtual machine. When the New Virtual Machine Wizard appears, click Next.

	11 /
😚 Oracle VM VirtualBox Manager	
File Machine Help	
	Details O Snapshots
New Settings Start Discard	
8	23
Create New Virtual Machine	mputer. The list is empty
Welcome to the New Virtual Machine Wizard!	
This wizard will quide you through the steps that are peressary to create a new virtual machine for VirtualBox.	
Use the Next button to go to the next page of the wizard and the Back button to return to the previous page can also press Cancel if you want to cancel the execution of this wizard.	e. You
Next Canc	el
	1.033

11. You can call the machine whatever you want. If you're installing Ubuntu, it makes sense to call it Ubuntu. You should also specify that the operating system is Linux.

		Welcome to Writedhot	8 2
Create New Virtua	l Machine	The left age of the sector is all of all the left age of the sector is all of the	Carlor -
VM Name and	OS Type		
Enter a name for the r	new virtual machine ar	nd select the type of the guest operating system	ı you plan to install ont
The name of the virtu	al machine usually indi	cates its software and hardware configuration. I	t will be used by all
VirtualBox component	s to identify your virtu	ual machine.	۵.
Name			
Ubuntu			
OS <u>T</u> ype			
Operating System:	Linux		• 💓
Version:	Ubuntu		
		<u>N</u> e	xt Cancel

12. VirtualBox will try to guess how much of your memory (or RAM) to allocate for the virtual machine. If you have 1 GB or less of RAM, I would advise you stick with the recommendation. If, however, you have over 1 GB, about a quarter of your RAM or less should be fine. For example, if you have 2 GB of RAM, 512 MB is fine to allocate. If you have 4 GB of RAM, 1 GB is fine to allocate. If you have no idea what RAM is or how much of it you have, just go with the default. Click Next.

8
tual machine.
512 N
2048 MB
Next Cancel

13. If this is your first time using VirtualBox, then you do want to Create new hard disk. Click next again.

Virtu	ual Hard Disk		
If you	wish you can now add a start-up di	isk to the new machine. You can either create a r	new virtual disk or selec
If you	need a more complex virtual disk se	etup you can skip this step and make the change	s to the machine setting
once t	he machine is created.		
The re	commended size of the start-up dis	k is 8.00 GB.	
VS	Start-up <u>D</u> isk		
0	<u>C</u> reate new hard disk		
0	Use existing hard disk		
	Empty		*] 🗟

vveicon	ne to the virtual disk c	eation wizard			
This wizard	l will help you to create a new v	rtual disk for your vi	rtual machine.		
Use the Ne press Can	ext button to go to the next pa cel if you want to cancel the ex	e of the wizard and ecution of this wizard	the Back button to ret d.	turn to the previous pag	e. You can a
Please cho virtualizati	ose the type of file that you wo on software you can leave this s	uld like to use for the etting unchanged.	e new virtual disk. If you	u do not need to use it v	vith other
File type					
VDI	(VirtualBox Disk Image)				
© VMD	K (Virtual Machine Disk)				
O VHD	(Virtual Hard Disk)				
	(Parallels Hard Disk)				

14. Theoretically, a dynamically expanding virtual hard drive is best, because it'll take up only what you actually use. There are situations, though, when installing new software in a virtualized Ubuntu, in which the virtual hard drive just fills up instead of expanding. So we recommend picking a Fixed-size storage.

/irtual disk storag	ge details				
Please choose whether th	ne new virtual disk file	e should be allocate	d as it is used or if it	should be created ful	y allocated.
A dynamically allocate shrink again automatically	ed virtual disk file will when space on it is	only use space on freed.	your physical hard o	lisk as it fills up, althou	gh it will not
A fixed size virtual disk f	file may take longer t	o create on some s	ystems but is often	faster to use.	
Storage details					
Oynamically allocate	ed				
Fixed size					

15. Ubuntu's default installation is less than 3 GB. If you plan on adding software or downloading large files in your virtualized Ubuntu, you should tack on some buffer.

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1 1 1	, , , , , , , , , , , , , , , , , , ,	8.00 GE
3	1 1 1	2.00 TB

16. Click Create and wait for the virtual hard drive to be created. This is actually just a very large file that lives inside of your Windows installation.



17. The next thing to do to make the (currently blank) virtual hard drive useful is to add the downloaded Ubuntu disk image (the .iso) boot on your virtual machine. Click on Settings and Storage. Then, under CD/DVD Device, next to Empty, you'll see a little folder icon. Click that.



18. Select the Ubuntu .iso you downloaded earlier.

🔅 Ubuntu - Settings		A course			8 23
🔅 Choose a virtual CI)/DVD disk f	ile			23
3 - Su	ısan Brownm	iller 🕨 Downloads	• 4 ₇	Search Downloads	Q
Organize 💌 Ne	ew folder				
 Favorites Desktop Downloads Recent Places Libraries Documents Music Pictures Videos Homegroup 	E	ubuntu-12.04-desktop-i386			
I Computer	File name	ubuntu-12 M-decton :296		All CD/DVD-ROM dick	images (💌
	rac norme.	abund-12.04-desktop-D00		Open 🚽	Cancel

19. Once you've selected it, click OK. Then double-click your virtual machine to start it up.

🔜 General	Storage	
 System Display Storage Audio Network Serial Ports USB Shared Folder: 	Storage Tree	Attributes CD/DVD Drive: IDE Secondary Master CD/DVD Live CD/DVD Information Type: Image Size: 701.29 MB Location: C:\Users\Susan Brownmiller\Dow. Attached To:
	Select a settings category from the list on to item to get more information.	he left-hand side and move the mouse over a settings

- 20. You may get a bunch of random warnings/instructions about how to operate the guest operating system within VirtualBox. Read those, and then you may also want to mark not to see those again.
- 21. Once it's started up, just follow the regular installation procedure as if you were installing Ubuntu on a real hard drive (instead of a virtual one).
- 22. Afterwards, in order to use your virtualized installation (instead of continually booting the live CD), double-check that the CD/DVD Device entry is Empty again.

🧾 General	Storage		
 Display Storage Audio Network Serial Ports USB Shared Folders 	Storage Tree IDE Controller Empty SATA Controller Ubuntu.vdi	Attributes Name: Type:	IDE Controller PIIX4
	Select a settings category from the list on the item to get more information.	e left-hand sid	de and move the mouse over a settings