

LAB: LINUX VM INSTALLATION

CS3500 OPERATING SYSTEM



Steps:

Step 1: Download Ubuntu 20.04 (Preferably) ISO file from

<https://releases.ubuntu.com/20.04>






Select Desktop image, if server image is chosen, It will not install a graphical user interface.

Step 2: Download the Oracle VM VirtualBox from

<https://www.oracle.com/in/virtualization/technologies/vm/downloads/virtualbox-downloads.html>

Step 3: Select package according to your current OS installed and it's version

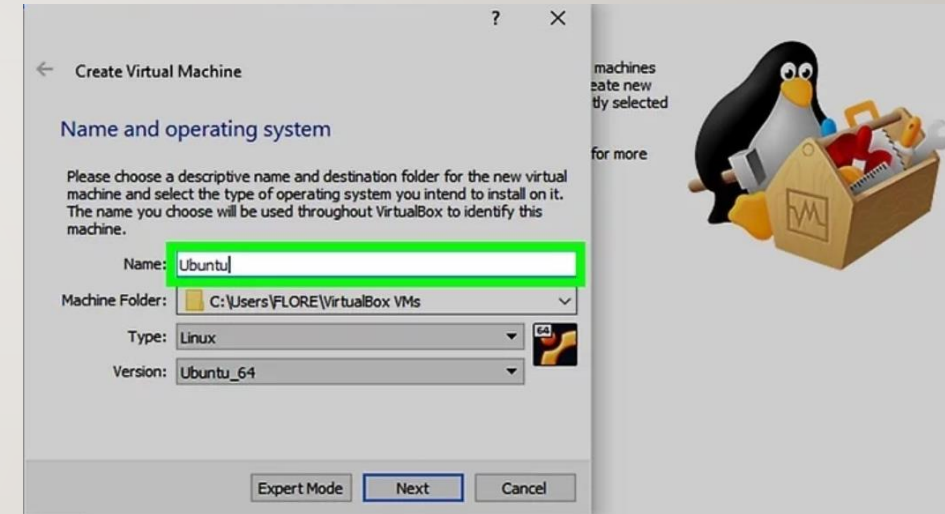
Eg: If you are installing on top of Windows (64-bit) OS, select first shown in the figure below:

Platform	64-bit
Windows	 Windows Installer
Mac OS X	 dmg Image
Solaris 10 5/08 and later or Solaris 11	 Solaris Package
Linux Platforms	
Ubuntu 18.04 (Bionic) / Ubuntu 18.10 (Cosmic) / Ubuntu 19.04 (Disco)	 deb Package
Ubuntu 16.04 (Xenial)	 deb Package

Steps (Cont):

Step 4: After successful installation of VM, Open VirtualBox. Double-click (or click once on a Mac) the VirtualBox app icon.

Step 5: Click New. Doing so opens a pop-up menu.



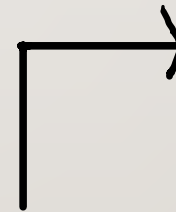
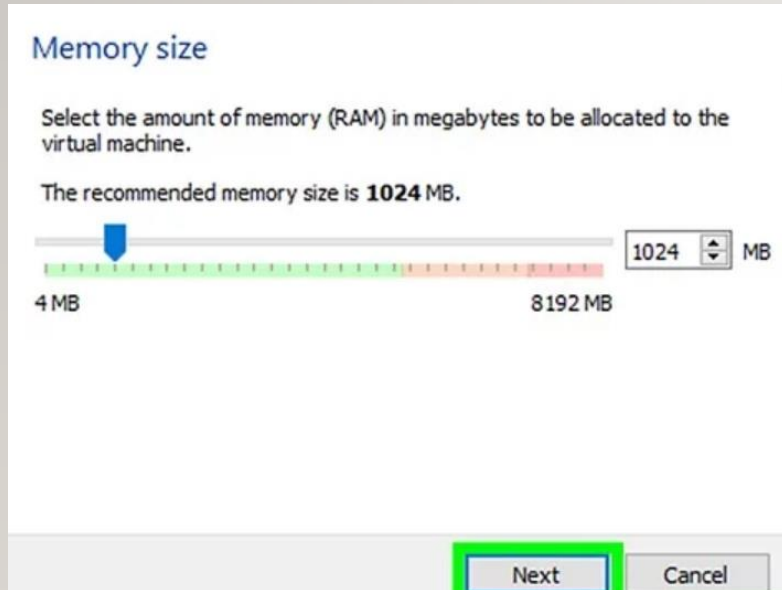
Add is used if you already have the template. You can clone. When creating first time, use new.

Step 6: Enter a name for your virtual machine. Type whatever you want to name your virtual machine (e.g., Ubuntu) into the "Name" text field that's near the top of the pop-up menu. Select Linux as the "Type" value. Select Ubuntu as the "Version" value. Click Next.

Steps (Cont.)

Step 7: Select an amount of RAM to use. The ideal amount of RAM will automatically be selected when you get to this page.

Make sure not to increase the RAM into the red section of the slider; try to keep the slider in the green. Click Next.

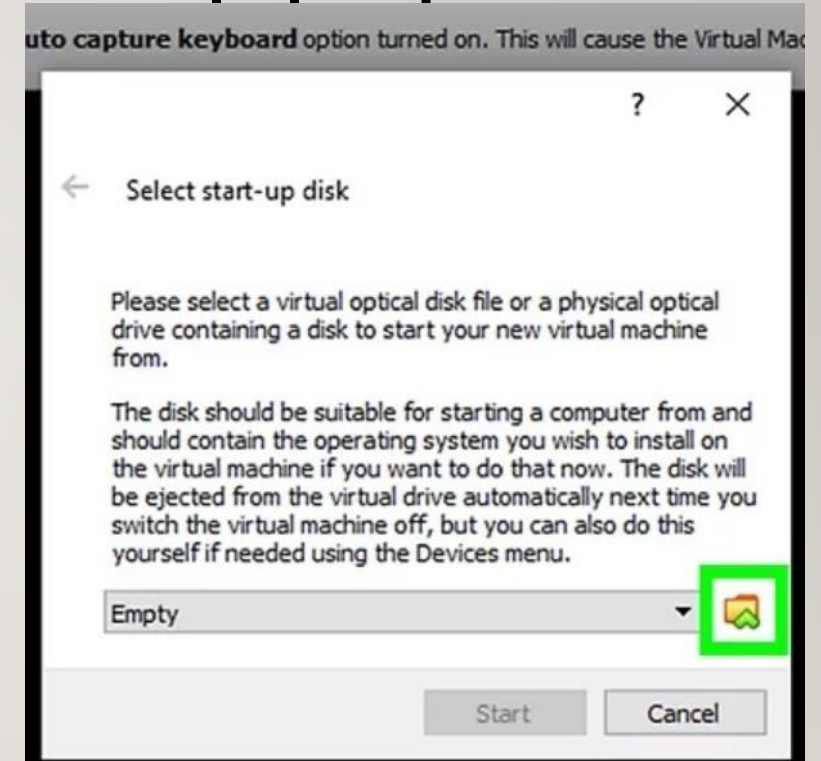
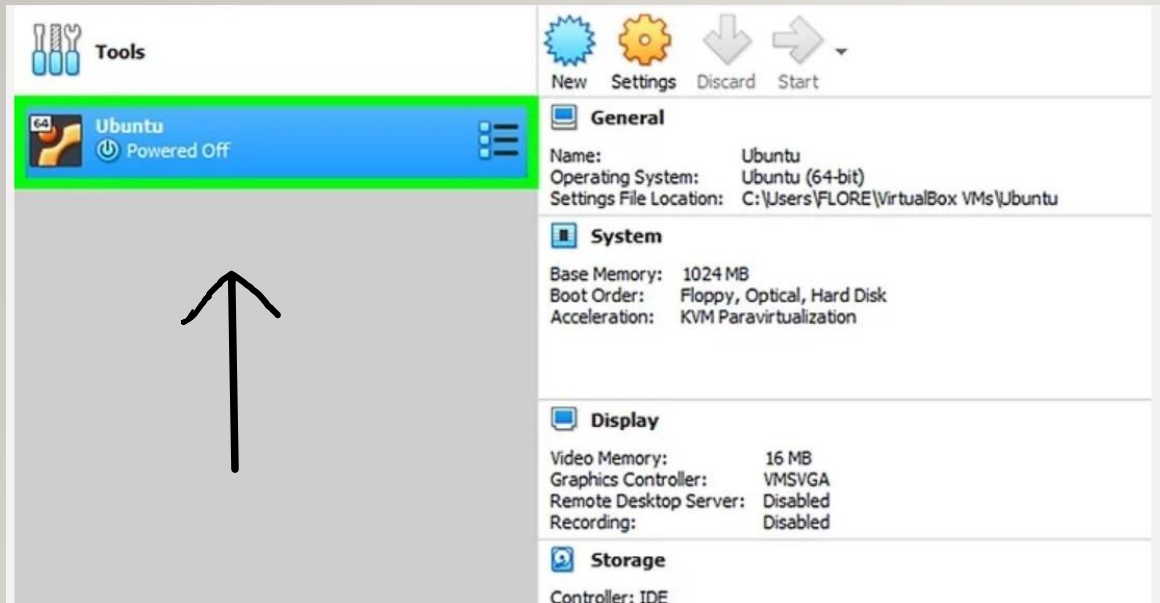


Step 8: Create your virtual machine's virtual hard drive.

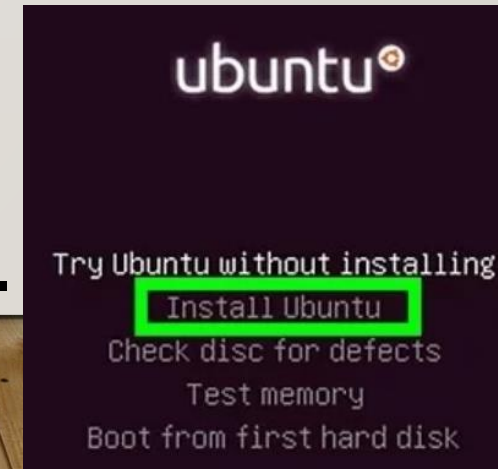
Create → Next → Next → Select an amount of space to use → Create

Steps (Cont.)

Step 9: *Double click on your virtual machine name. A menu pops up:



Step 10: Click the folder-shaped icon. Select your Ubuntu ISO (downloaded in step1).
Click Start :Ubuntu will begin running. Click Install Ubuntu.



Steps (Cont.)

Step 11: Check both boxes on the "Preparing to install Ubuntu" page. This will ensure that everything Ubuntu needs to run will be installed. Click continue.

Step 12: Check the "Erase disk and install Ubuntu" box. Click Install Now → Continue.

Step 13: Setup time zone, language.

Step 14: Create your account using username and password.

Step 15: Wait for Ubuntu to finish installing. This process may take anywhere from a couple of minutes to half an hour depending on the speed of your computer.

Step 16: You will be prompted to restart the virtual machine.



Steps (Cont.)

Step 17: Install basic utilities such as

→gcc : **sudo apt install gcc**

→make: **sudo apt install make**

*In case you are installing on top of Ubuntu OS, Step 9 will varies slightly.

→Go to the settings dialog → Storage → Controller : IDE → Empty.

→In Attributes on the left side, change the optical drive to the location of downloaded
Ubuntu ISO image (20.04).

Rest same.

Note: All illustrations and steps are followed from :

<https://www.wikihow.com/Install-Ubuntu-on-VirtualBox>

