Installing Ubuntu on VirtualBox

A Guide to Setup Ubuntu VM

edureka!

Ubuntu VM

- A guide to setup Ubuntu VM

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Install Virtual Box

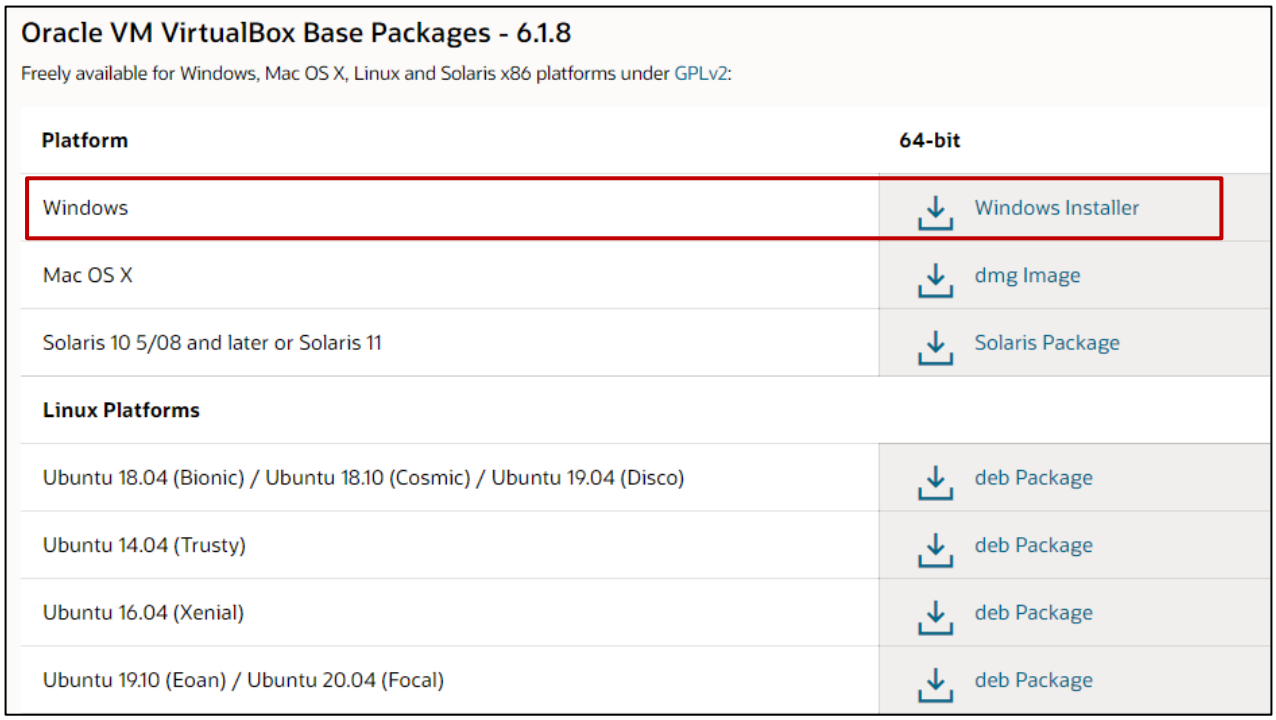
Pre-requisites:

- Minimum 4GB RAM (Suggested 8GB)
- Minimum processor Core i3 or above
- Minimum Free Disk Space 25GB
- Operating System of 64bit

Step 1: Download Virtual Box from the link given below based on your Operating System

http://www.oracle.com/technetwork/server-storage/virtualbox/downloads/index.html

Here we have shown installation for VirtualBox-6.1.8, same steps you can follow for the updated versions.

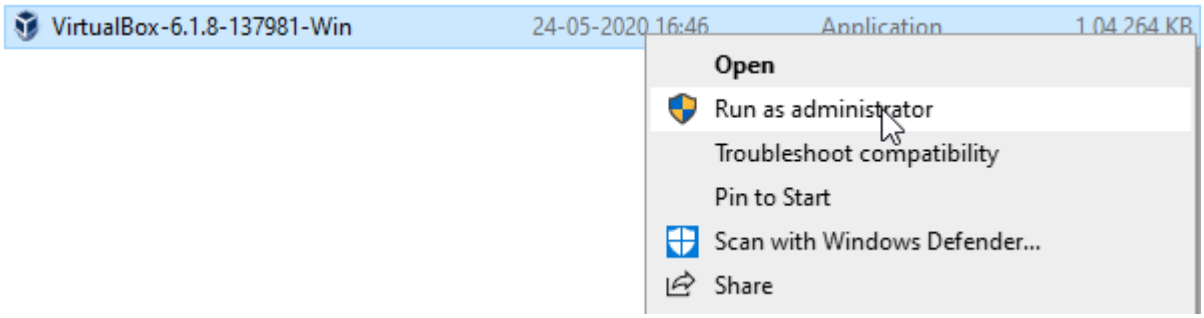


Oracle VM VirtualBox Base Packages - 6.1.8

Freely available for Windows, Mac OS X, Linux and Solaris x86 platforms under GPLv2:

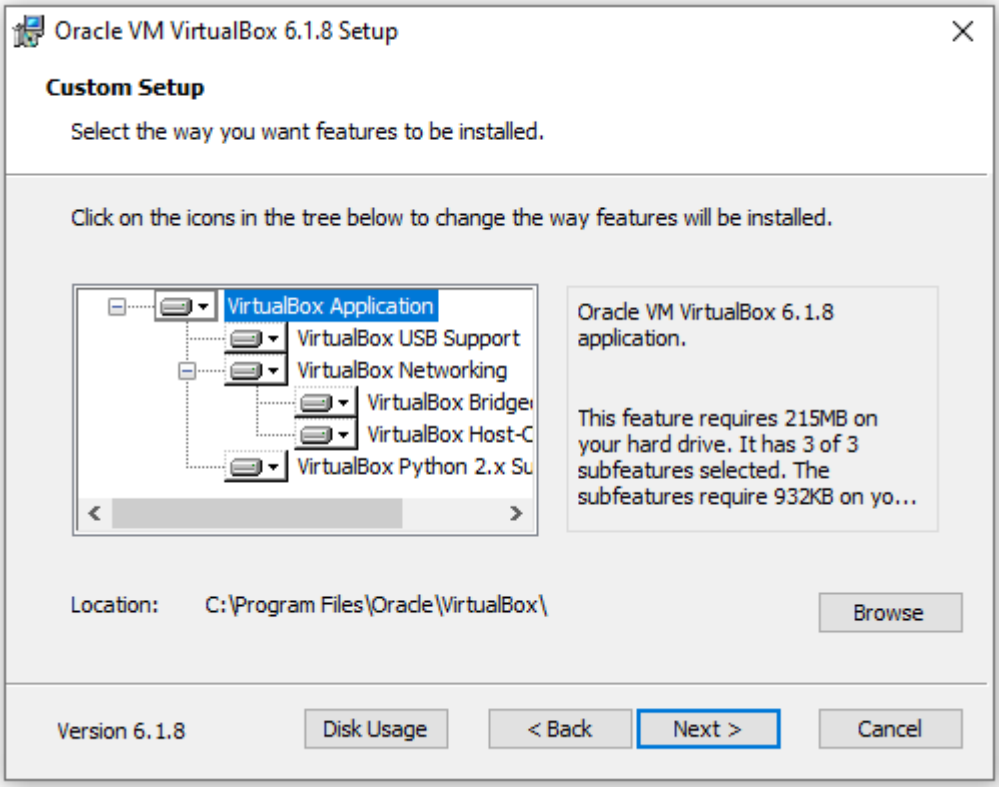
Platform	64-bit
Windows	Windows Installer
Mac OS X	dmg Image
Solaris 10 5/08 and later or Solaris 11	Solaris Package
Linux Platforms	
Ubuntu 18.04 (Bionic) / Ubuntu 18.10 (Cosmic) / Ubuntu 19.04 (Disco)	deb Package
Ubuntu 14.04 (Trusty)	deb Package
Ubuntu 16.04 (Xenial)	deb Package
Ubuntu 19.10 (Eoan) / Ubuntu 20.04 (Focal)	deb Package

Step 2: Select the .exe file that you have downloaded in the previous step and then click on ***Run as administrator***

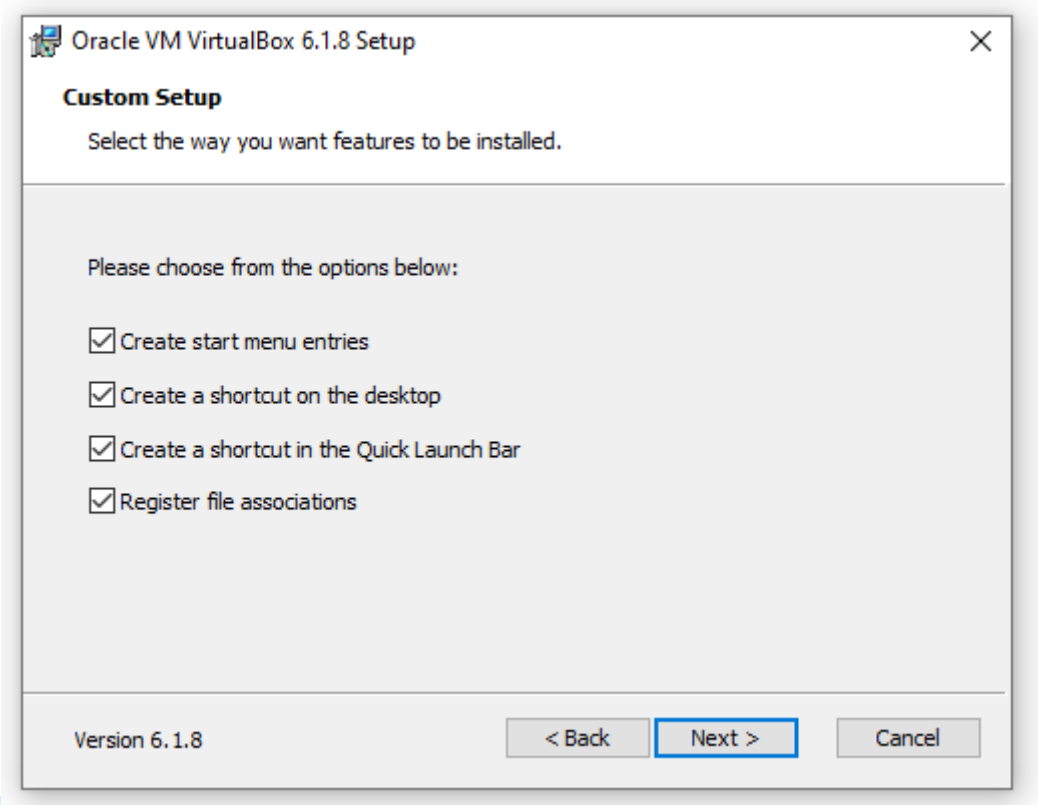


Step 3: Click **Next.**

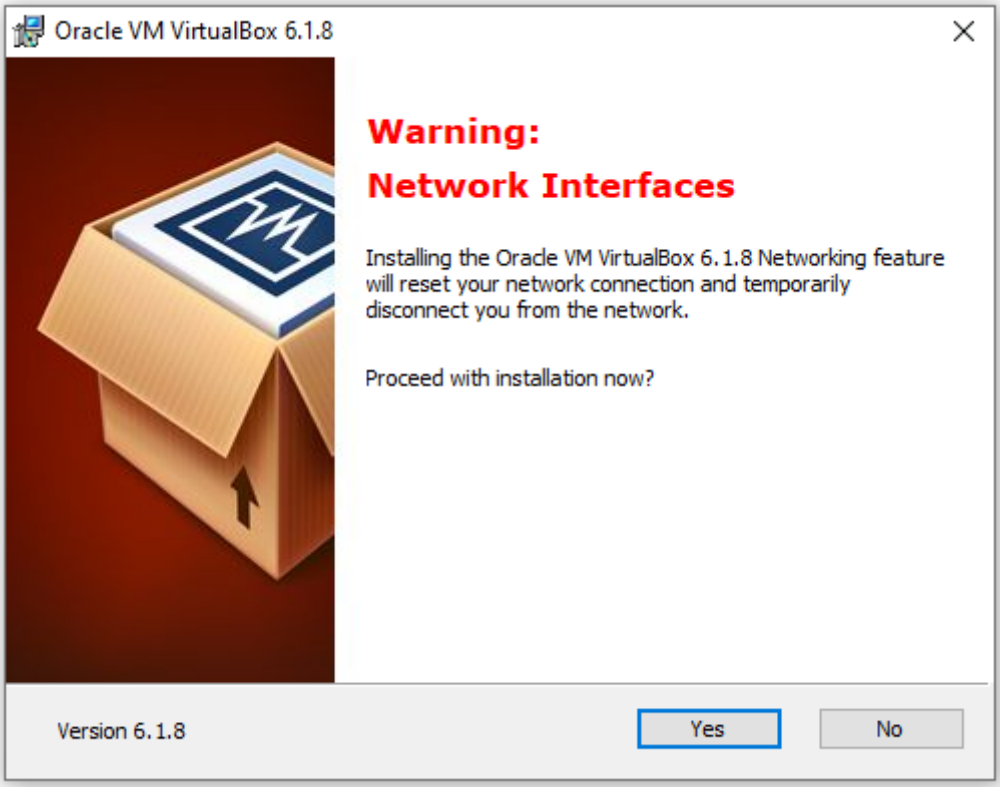
Step 4: Select the way you want your features to be installed and click ***Next***. You can also change the location as per your will.



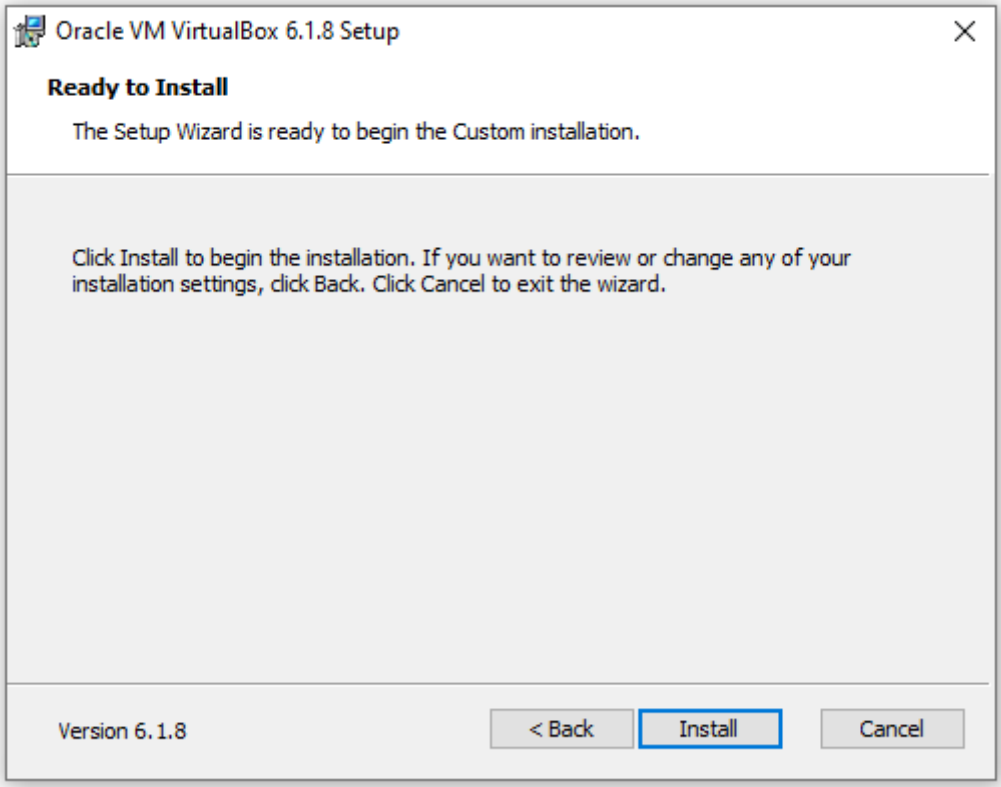
Step 5: Choose all the options and click ***Next***.

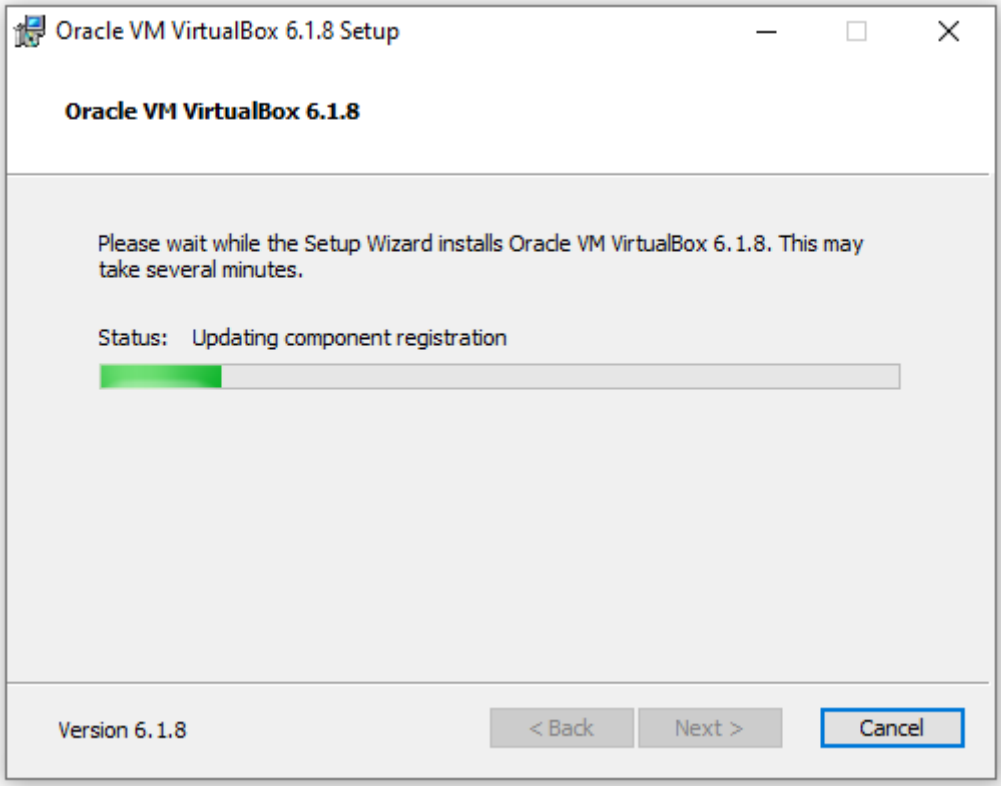


Step 6: Click ***Yes*** to install Virtual Box 6.1.8.

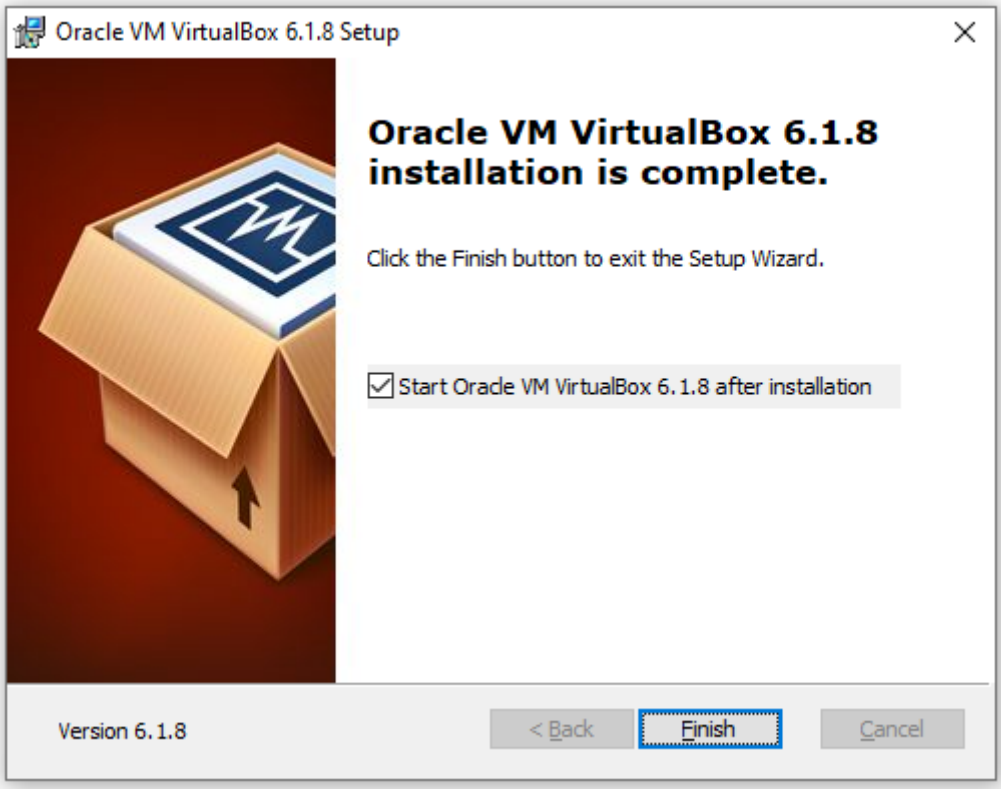


Step 7: Click ***Install*** to begin the installation.

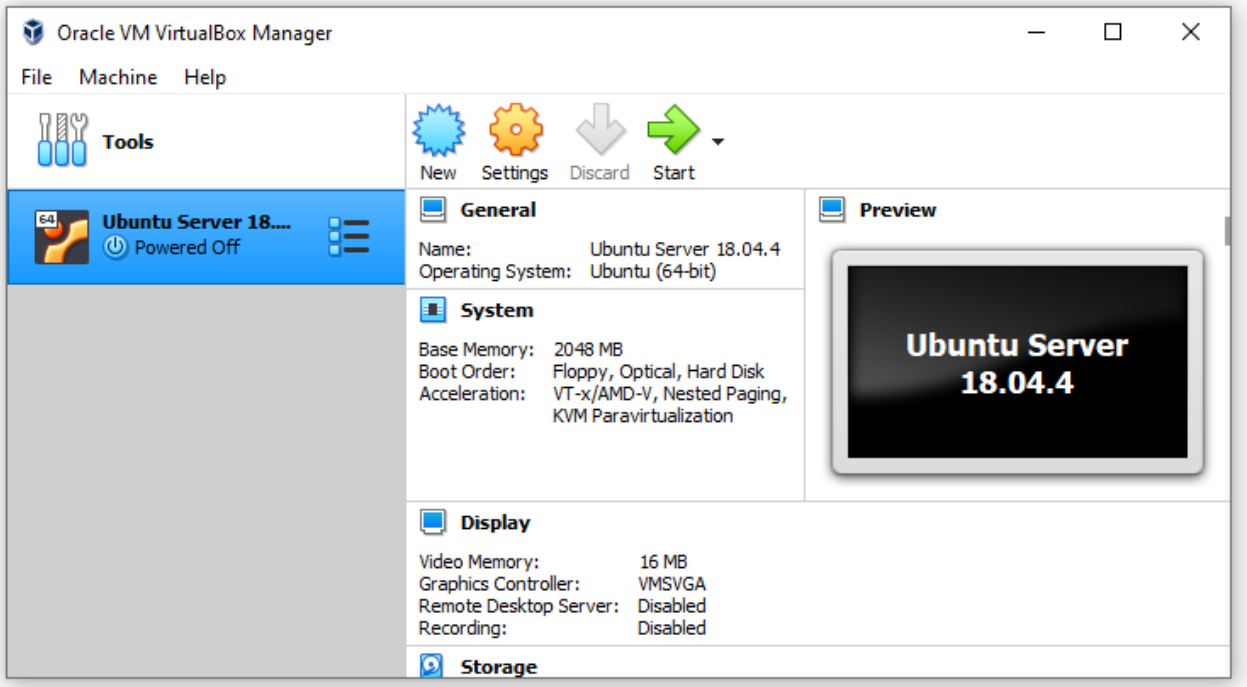




Step 8: Click ***Finish*** and start the Virtual Box.



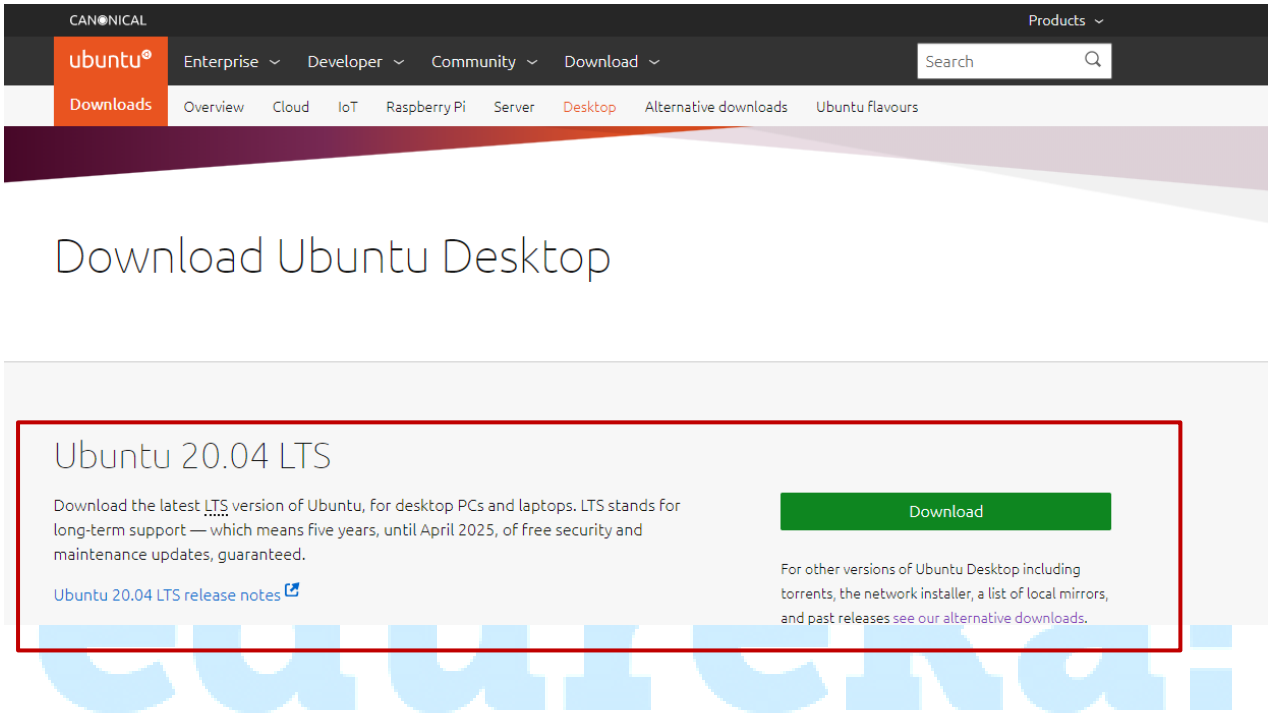
With this screen, your Oracle VM Virtual Box Manager has been downloaded and installed successfully. In your case, you might not have any VMs listed on VirtualBox window.



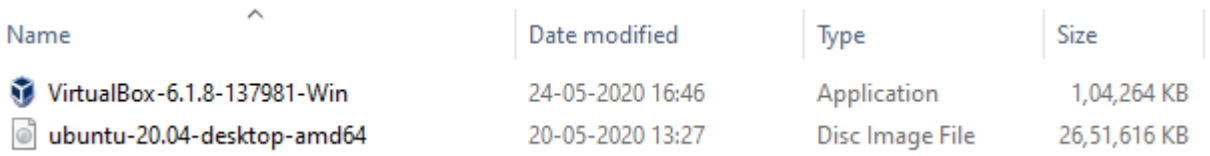
Install Ubuntu

Step 1: Download the installation image. Go to the link given below and download the necessary version of the Ubuntu installer.

https://ubuntu.com/download/desktop



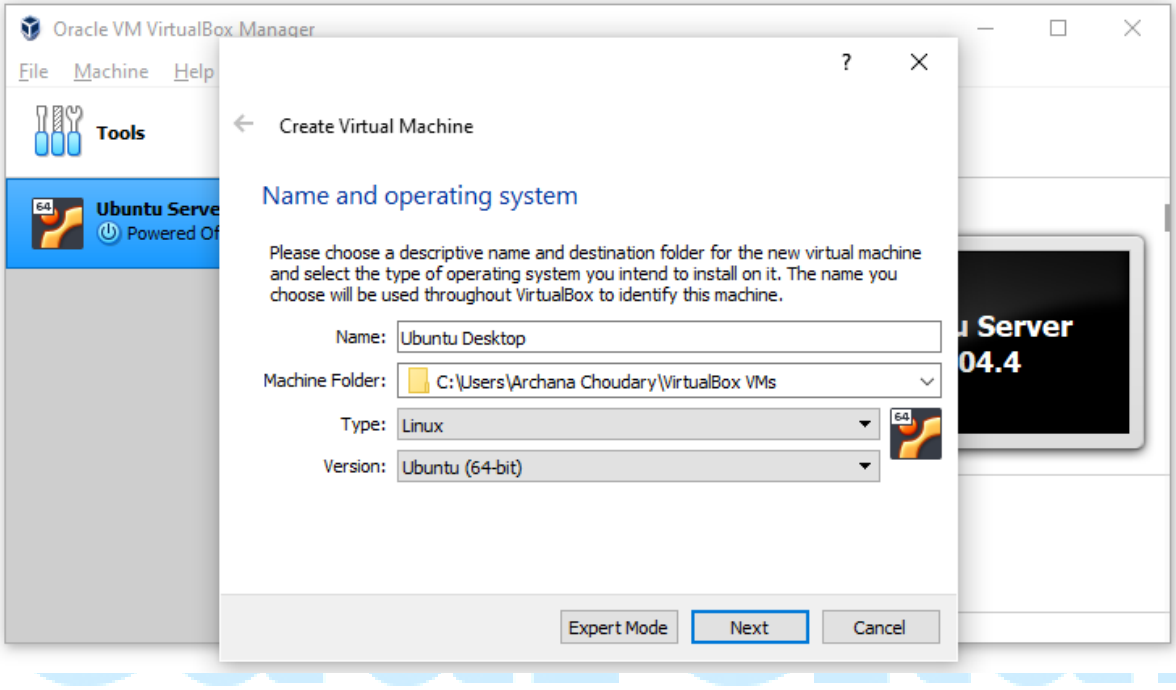
Step 2: Click on the ***Download*** button and save the ISO file to the custom location. In this case, the name of the file is *ubuntu_20.04_desktop-amd64*.



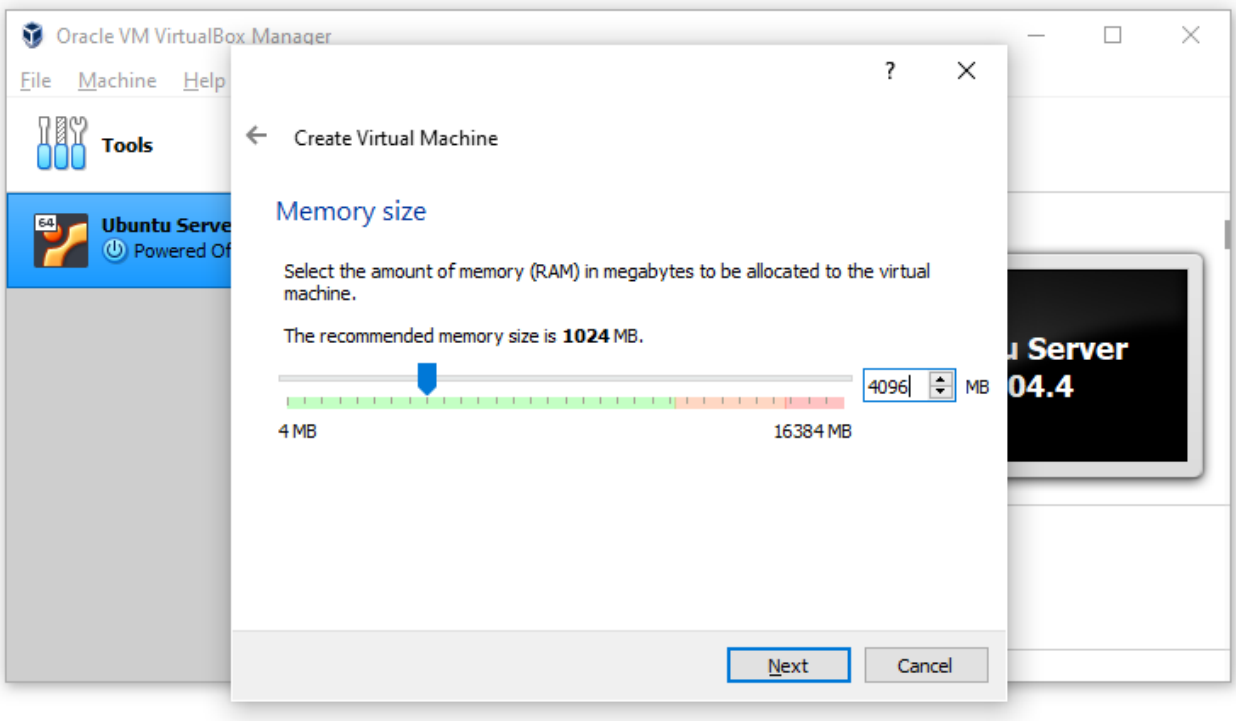
Create a new VM on VirtualBox

Step 3: To create a new virtual machine on VirtualBox, open VirtualBox and click on ***New (Machine > New)*** or press ***Ctrl+N.***

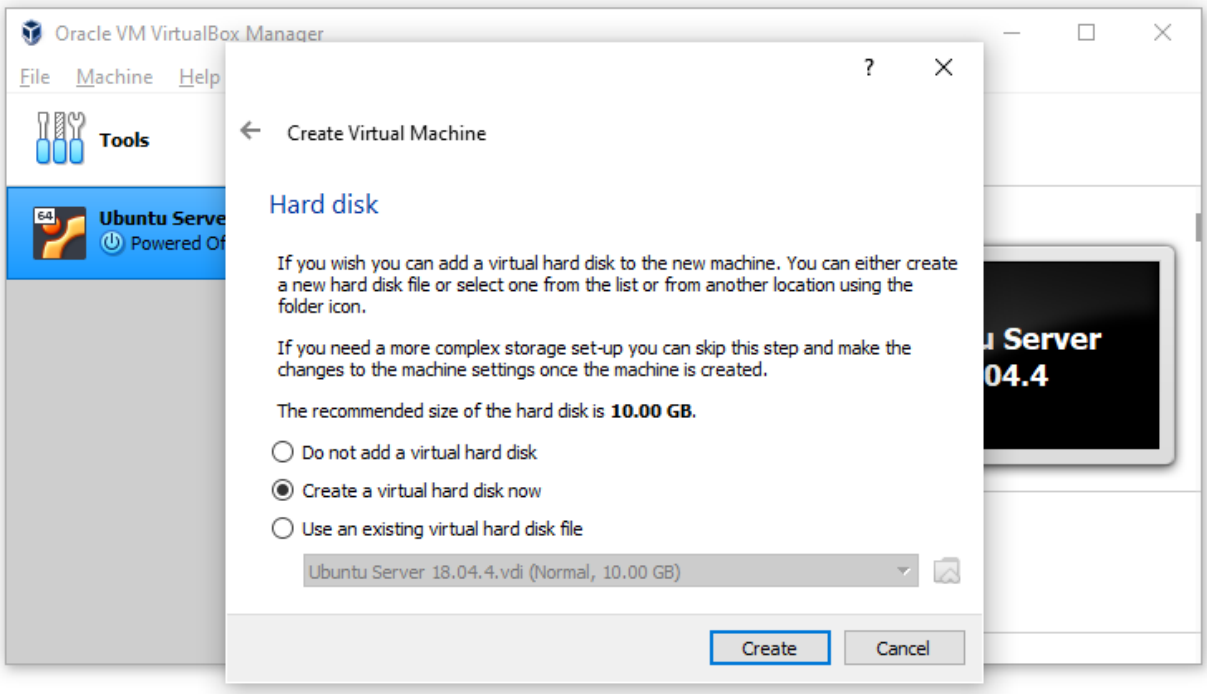
Step 4: In the ***Create Virtual Machine*** window, set the options for Ubuntu VM as shown below.



Step 5: Set the memory size to 4GB of RAM (Minimum 4GB recommended). Make sure to leave enough memory for your host operating system to behave normally.



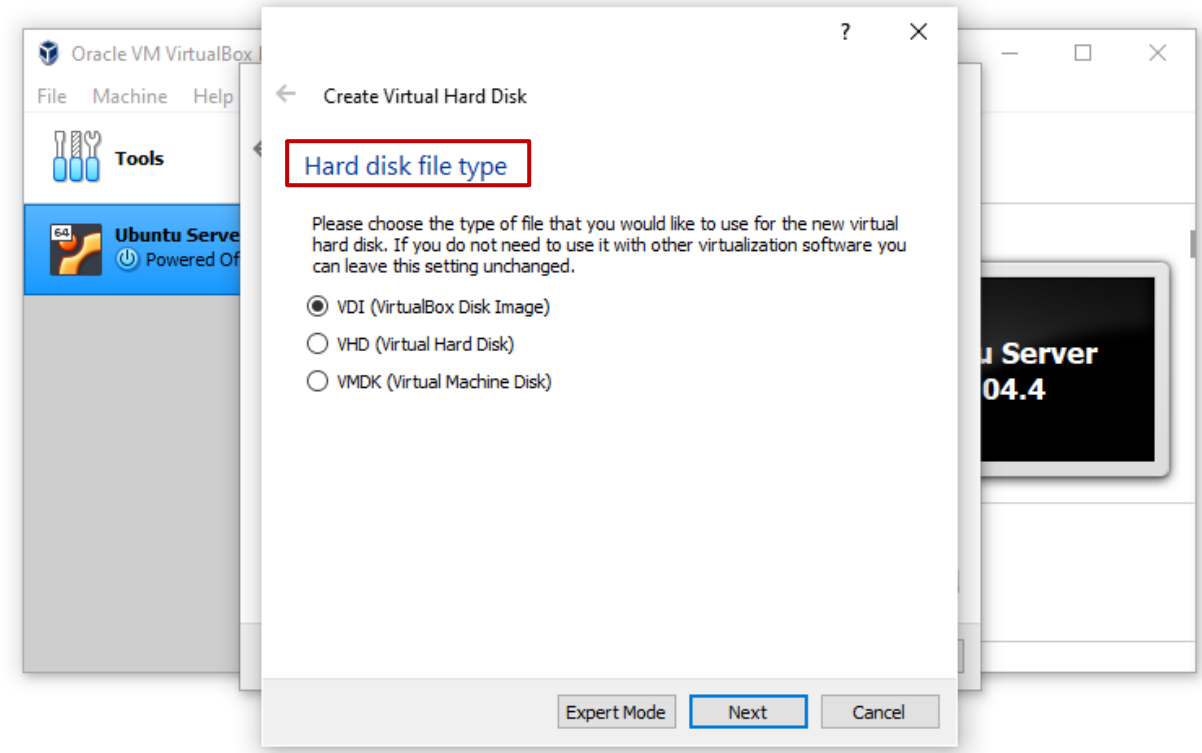
Step 6: Select the ***Create a virtual hard disk now*** option and click on ***Create***.

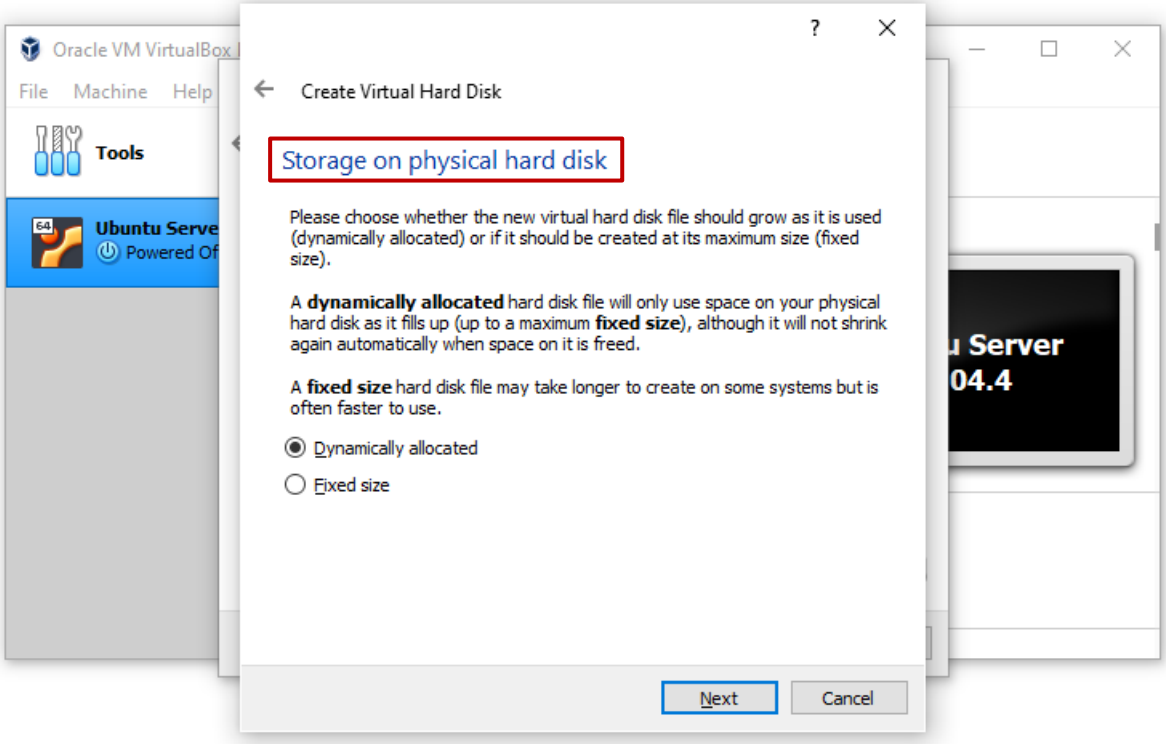


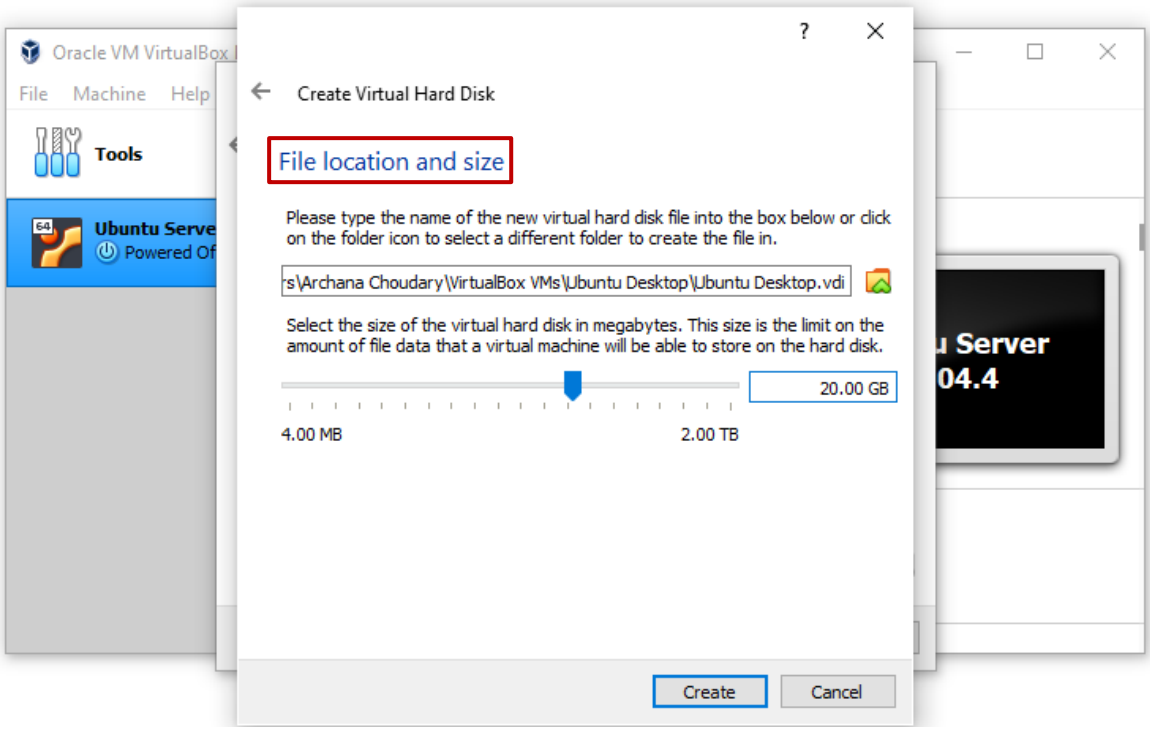
Step 7: On ***Create Virtual Hard Disk*** screen, choose the following options:

1. Hard disk file type: VDI (VirtualBox Disk Image). Click on ***Next***.
2. Storage on physical hard disk: Dynamically allocated. Click on ***Next***
3. File size: 20 GB or more.

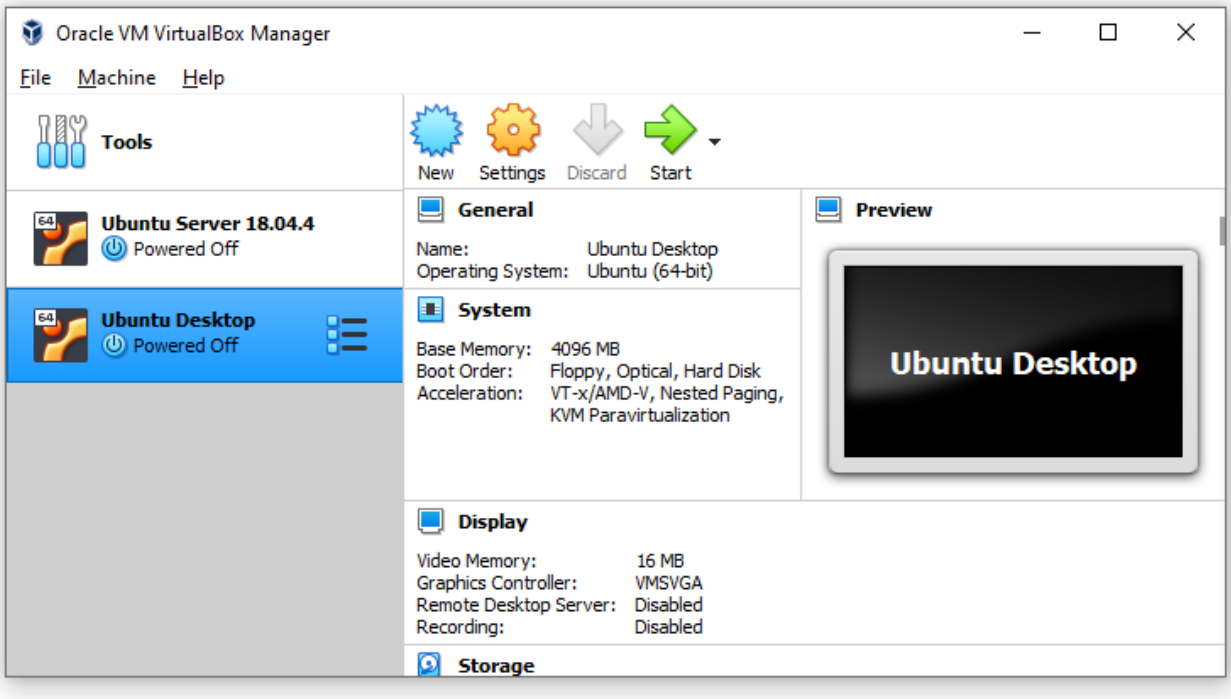
Finally, click on ***Create*** to finish creating a new VM to install Ubuntu on VirtualBox.



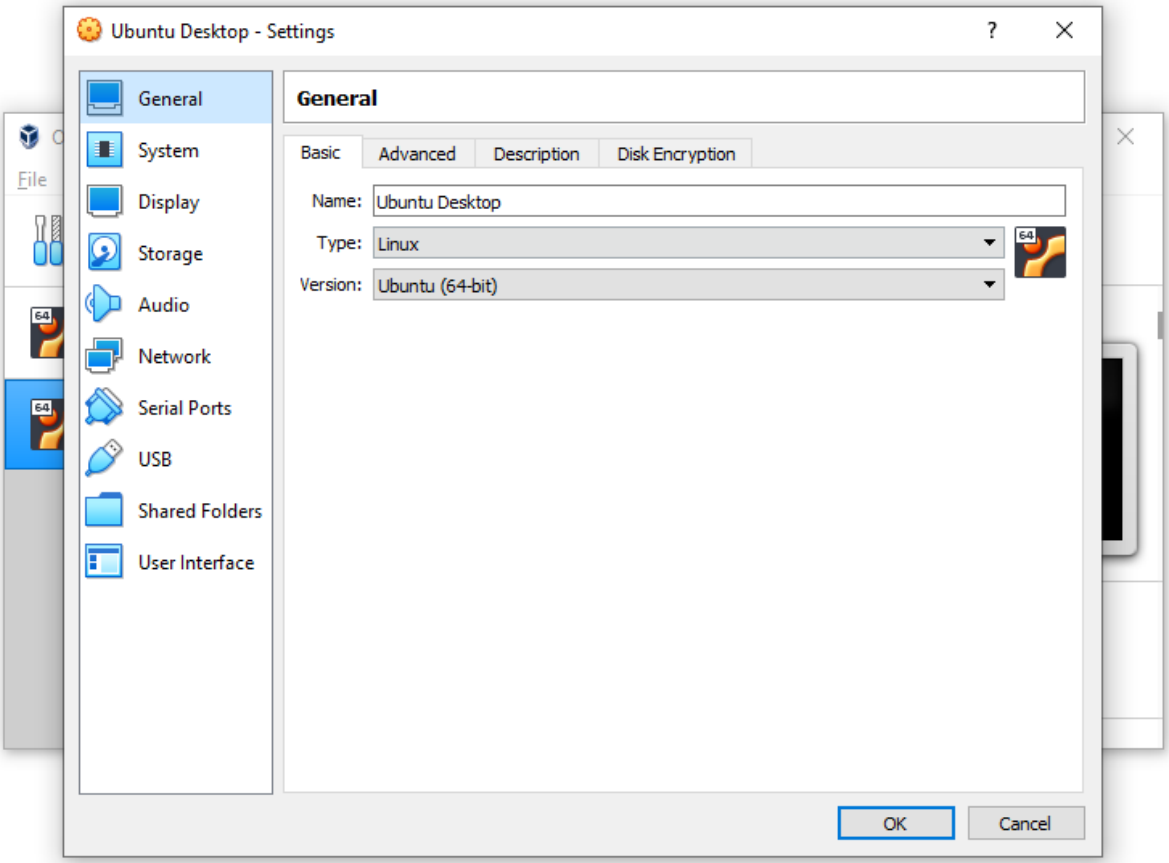




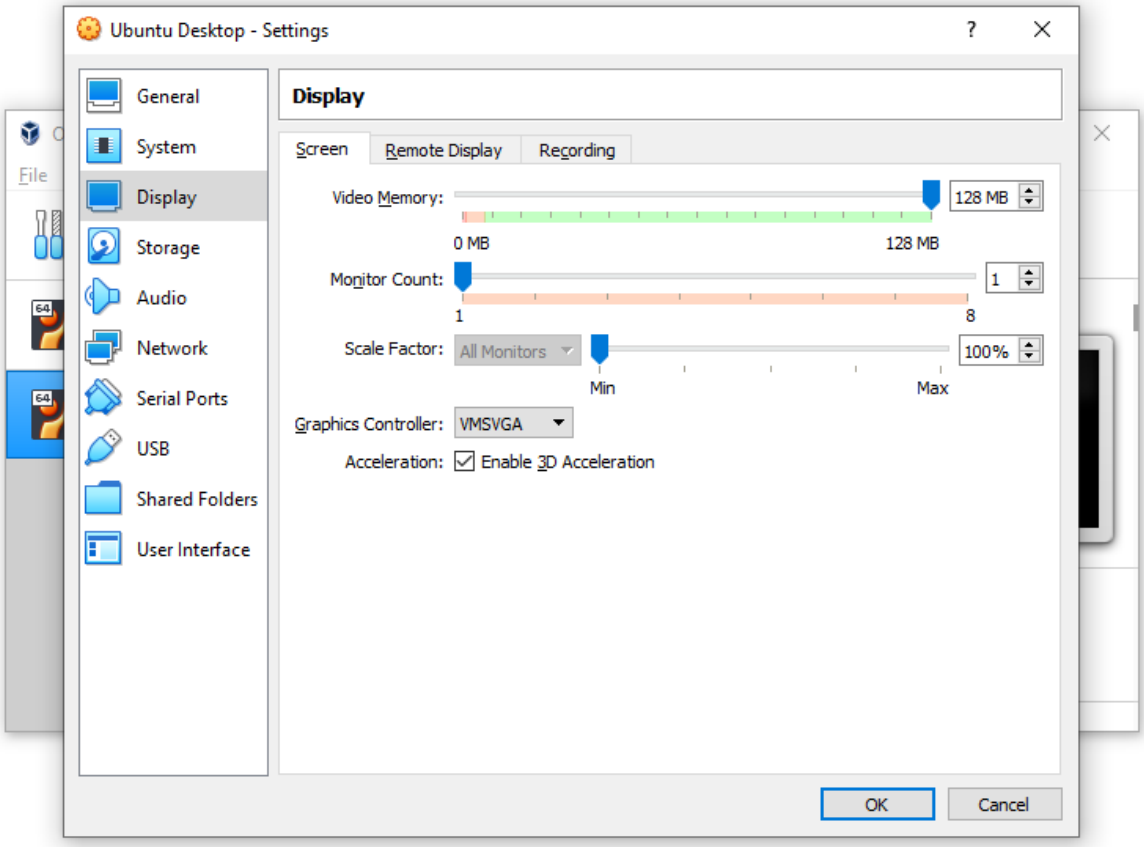
Step 8: Once the virtual machine is created, you can see that its name is displayed in the list of VMs in the main VirtualBox window. Next step is to configure the virtual machine.



Step 9: To edit the VM settings, select your new VM (Ubuntu Desktop in this case) and click ***Settings (Machine > Settings or press Ctrl+S)***.



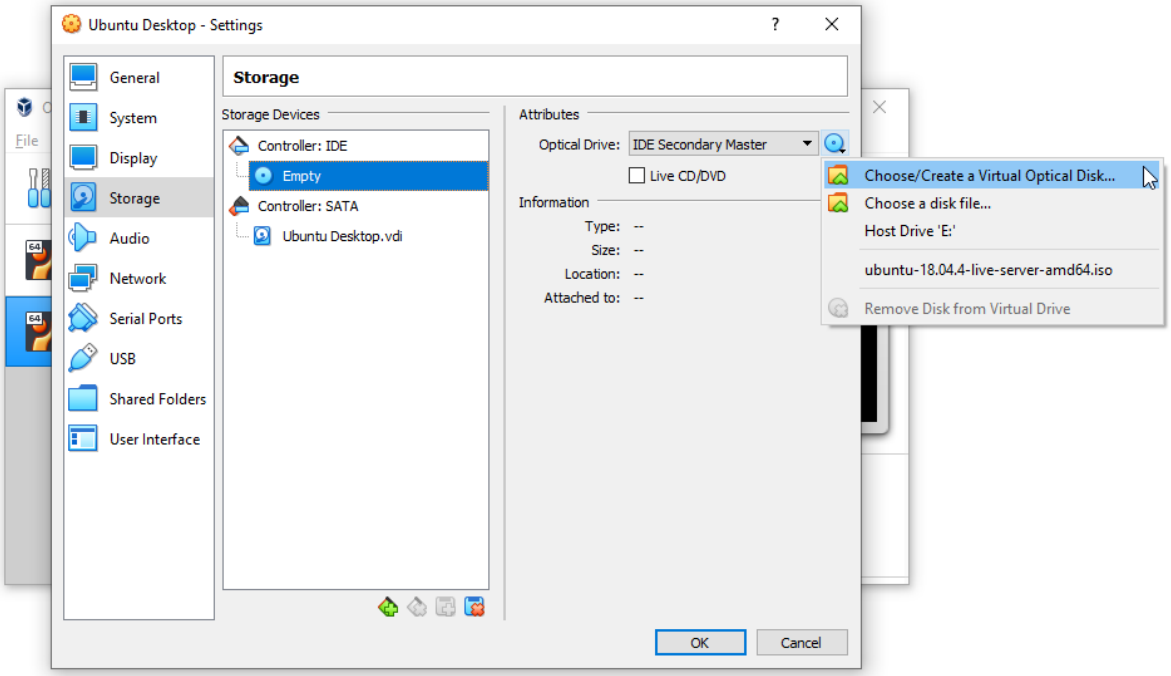
Step 10: Go to the ***Display*** section and select the ***Screen*** tab. Set video memory to 128MB and enable 3D acceleration as shown below. Then click on ***OK*** to save the settings.



Step 11: Go to ***Storage*** section and under ***Storage Devices*** select your virtual controller used for connecting a virtual DVD drive. Click the ***Empty*** status.

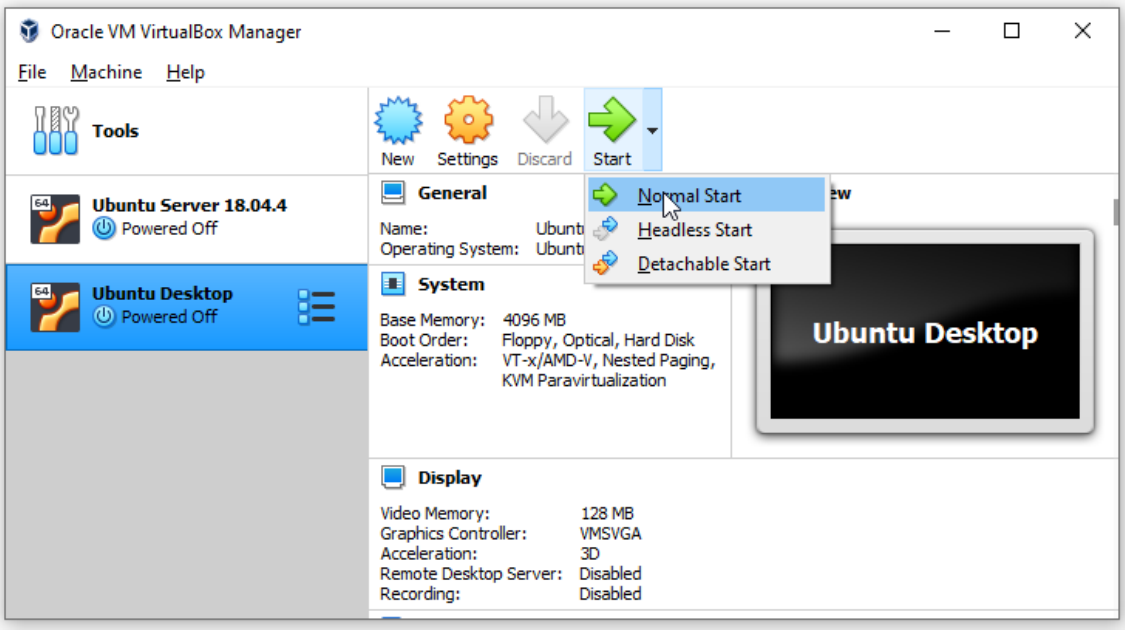
In the right pane, under the attribute section, for Optical Drive near the IDE Secondary Master, click the *disc icon*. In the menu that appears, click ***Choose Virtual Optical Disk File*** and browse the Ubuntu installation ISO image file that you downloaded in the previous steps (*ubuntu_20.04_desktop-amd64*).

Click on ***OK*** and now your VM is ready to install Ubuntu on VirtualBox.

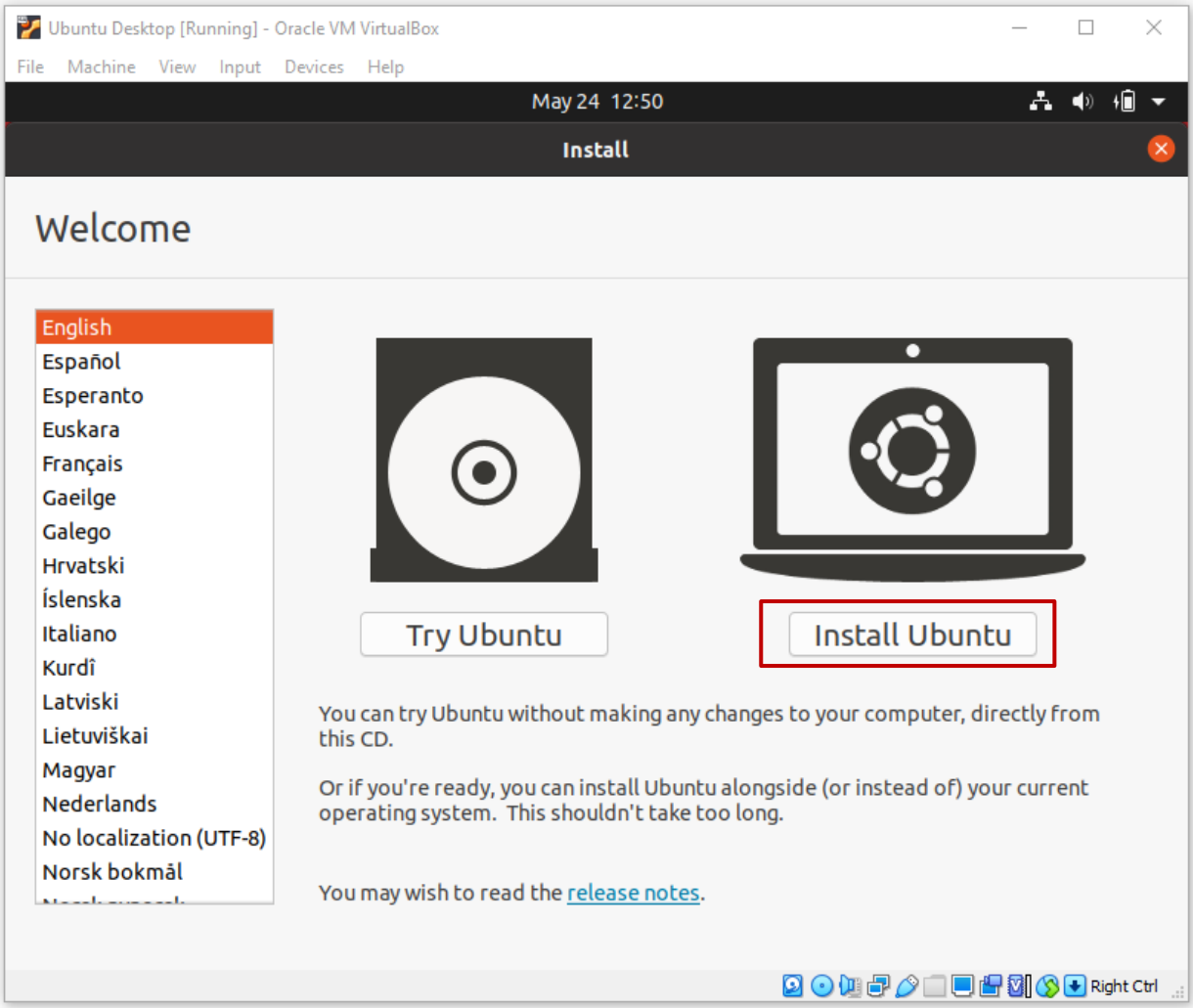


Install Ubuntu VM on VirtualBox

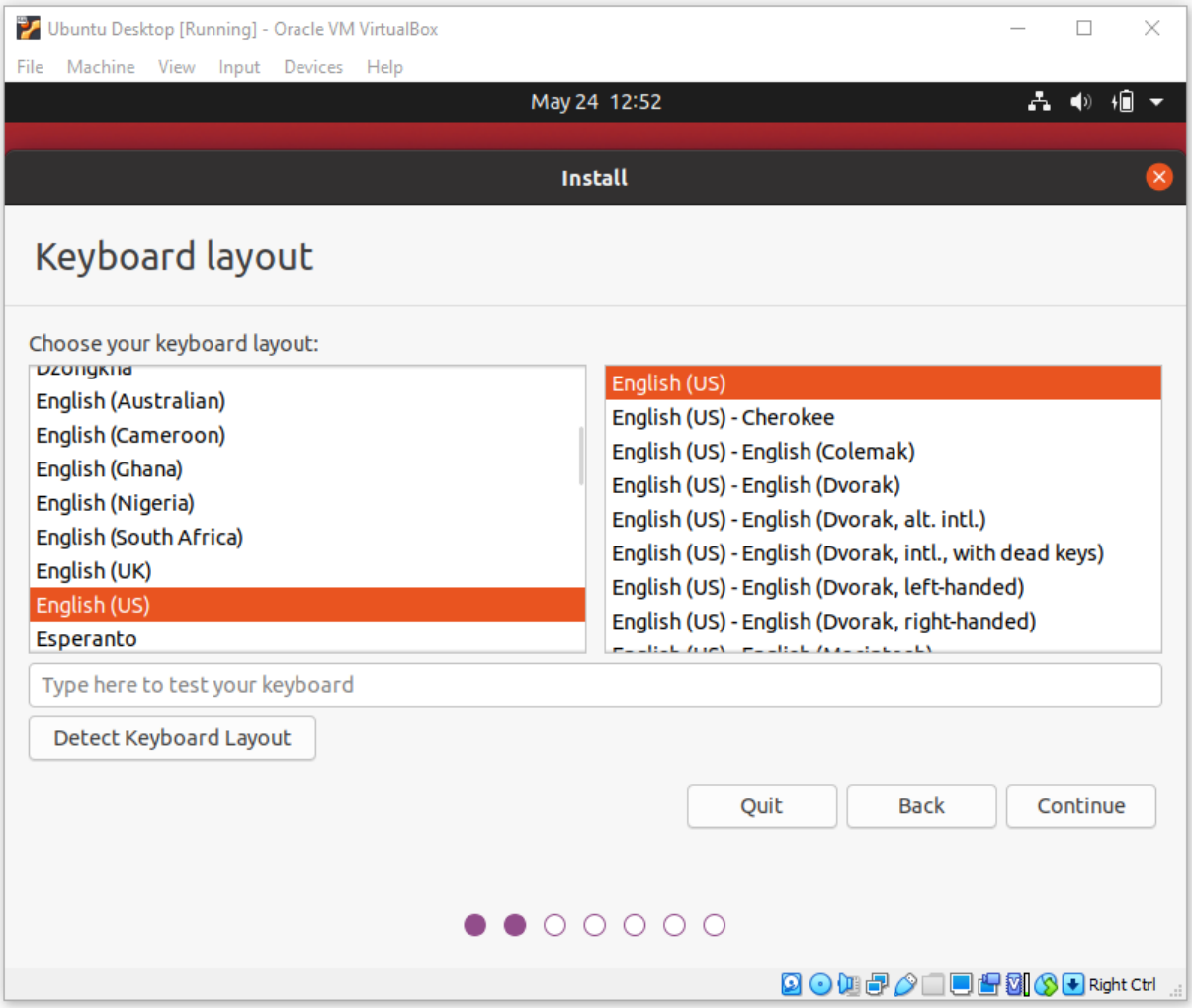
Step 1: Select your Ubuntu VM and click on ***Start***. This opens ISO Ubuntu installation page. The first screen that you see is Welcome screen.



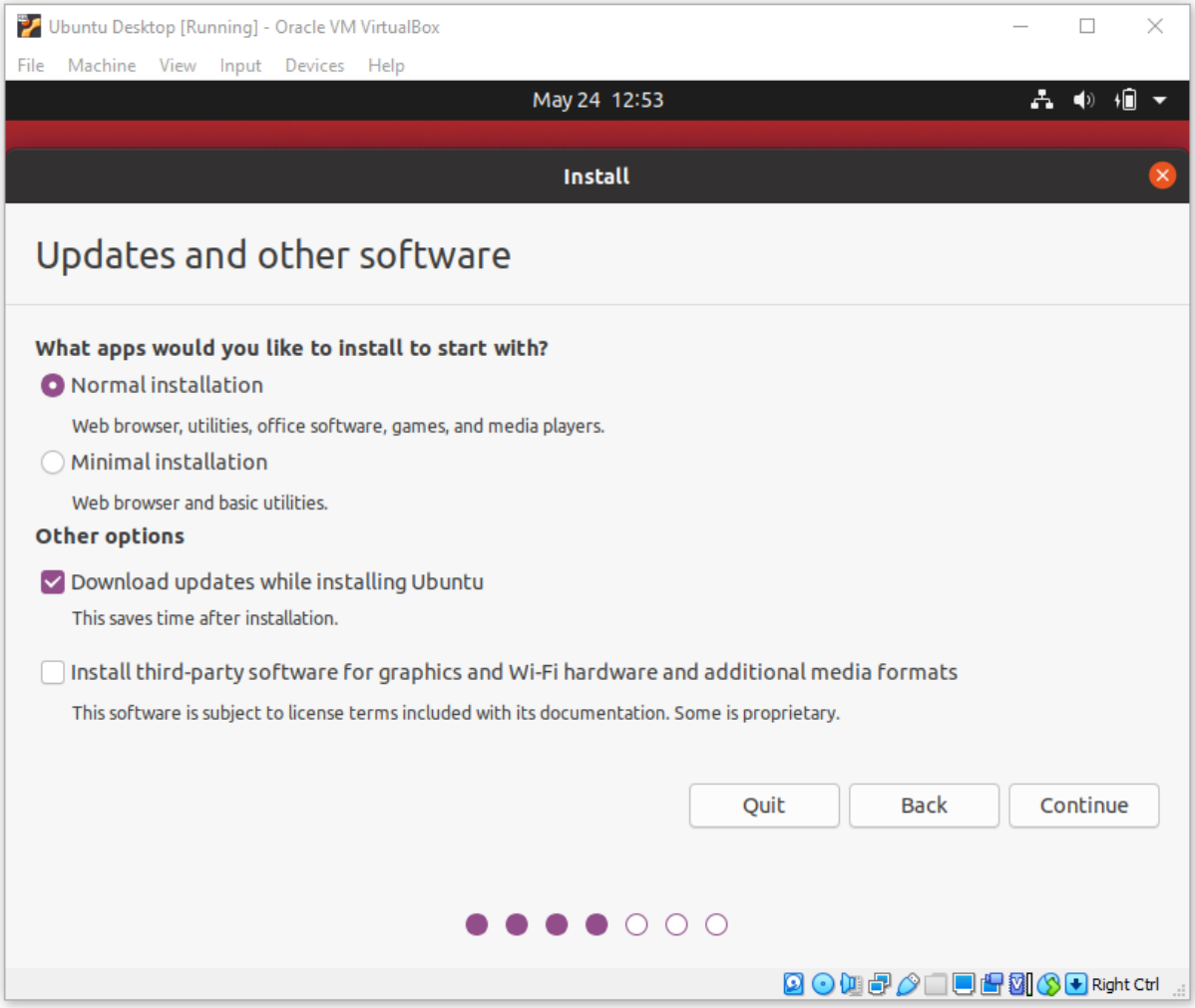
Step 2: Select the language of your choice for displaying information in the installer interface. Then click ***Install Ubuntu***.



Step 3: Choose the keyboard layout and select the language of your choice (English (US) in this case). Click on ***Continue***.

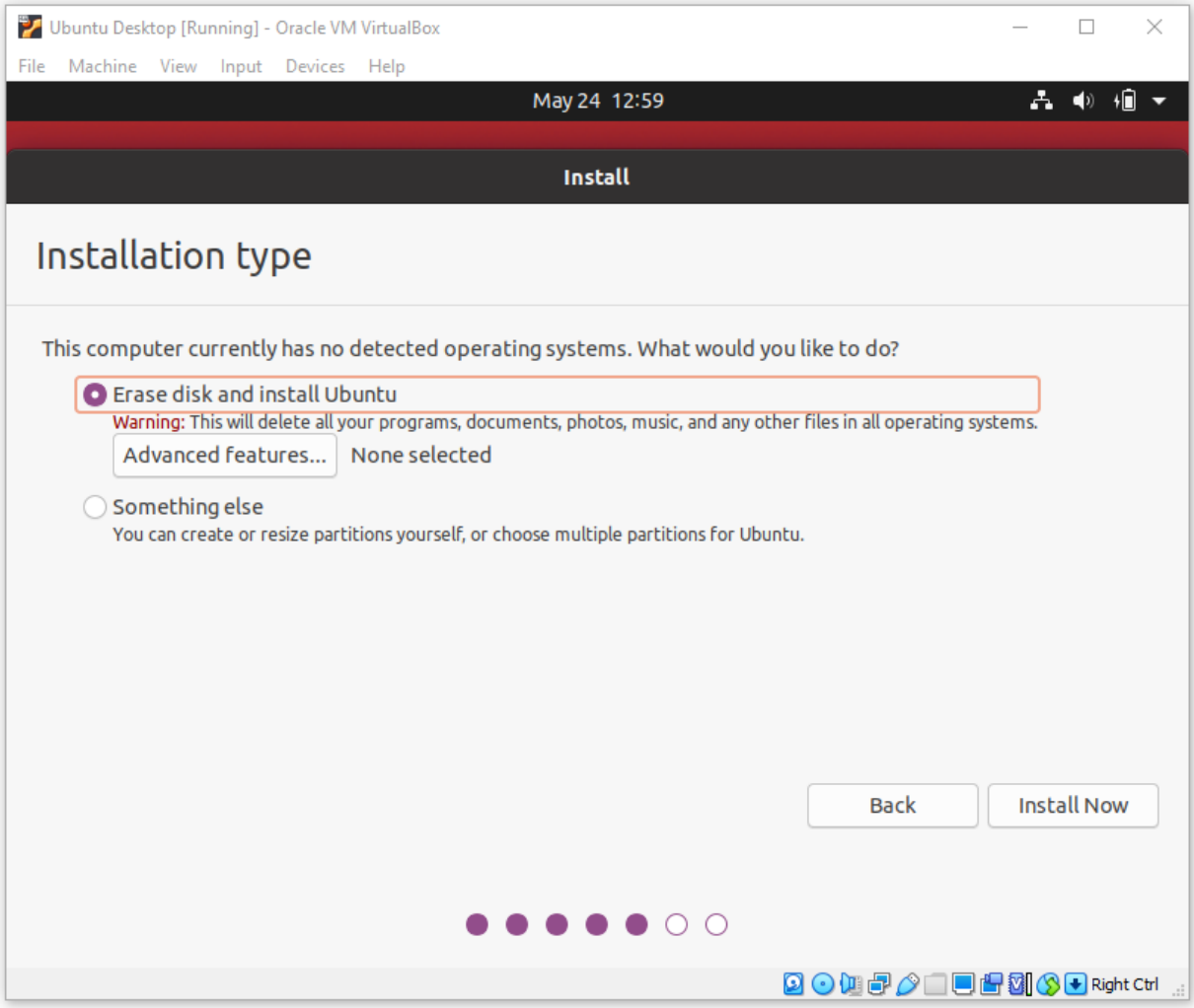


Step 4: On the next screen, select ***Normal Installation***.

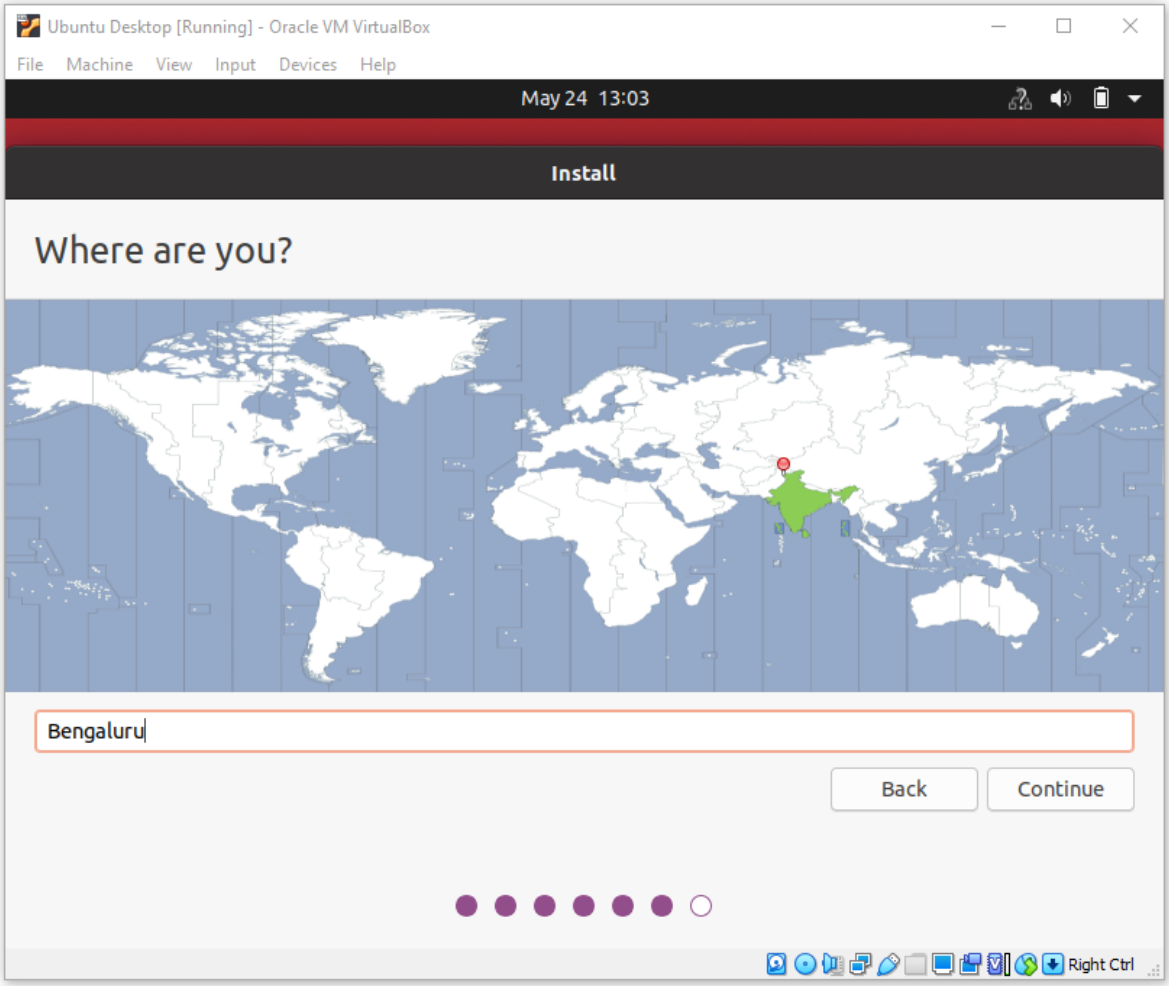


Step 5: The ***Installation type*** screen contains options for preparing a disk for Ubuntu installation. Select the default option ***Erase disk and install Ubuntu***. This will automatically allocate disk space to Ubuntu. Click on ***Install Now***.

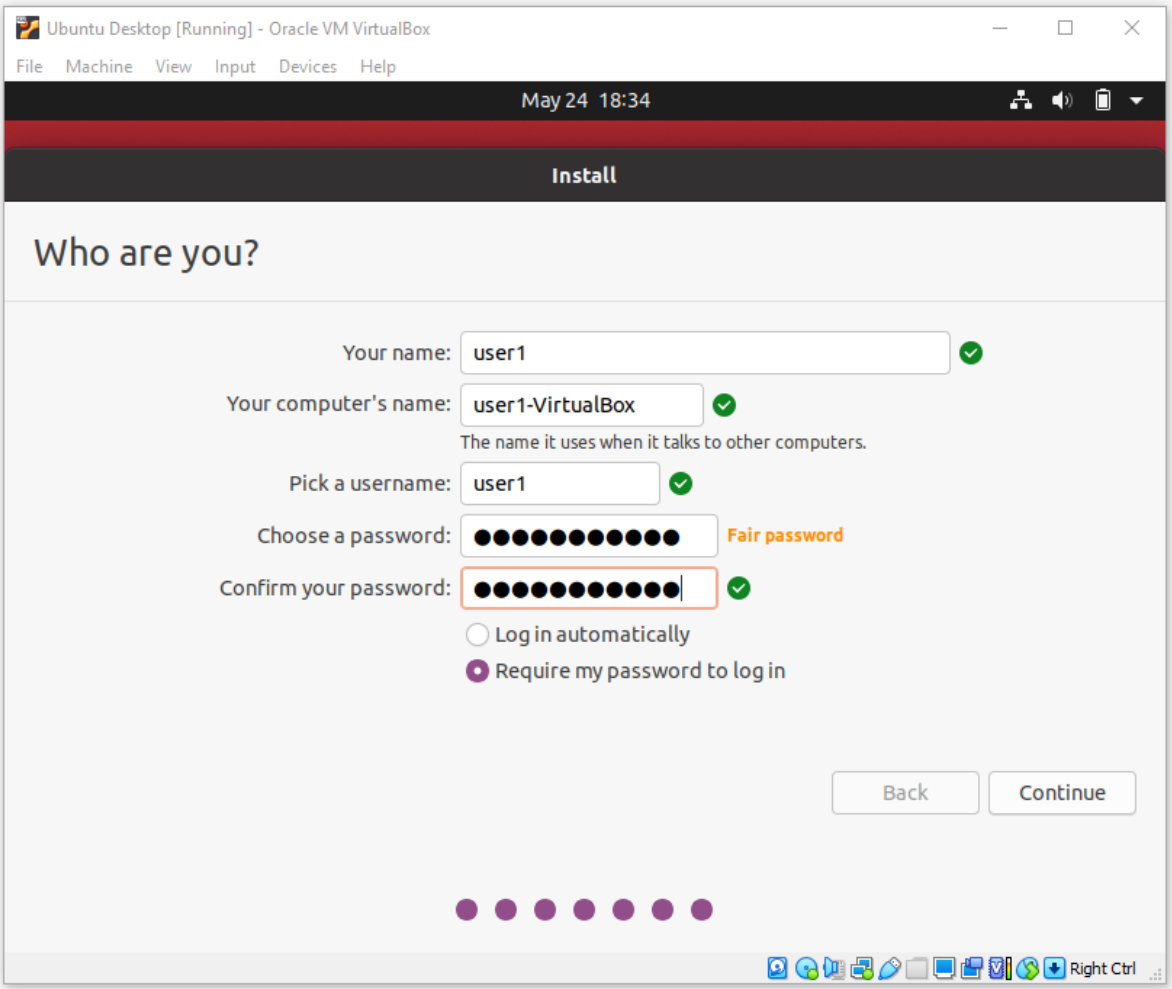
When the confirmation screen pops up, click on ***Continue*** to proceed with the installation.



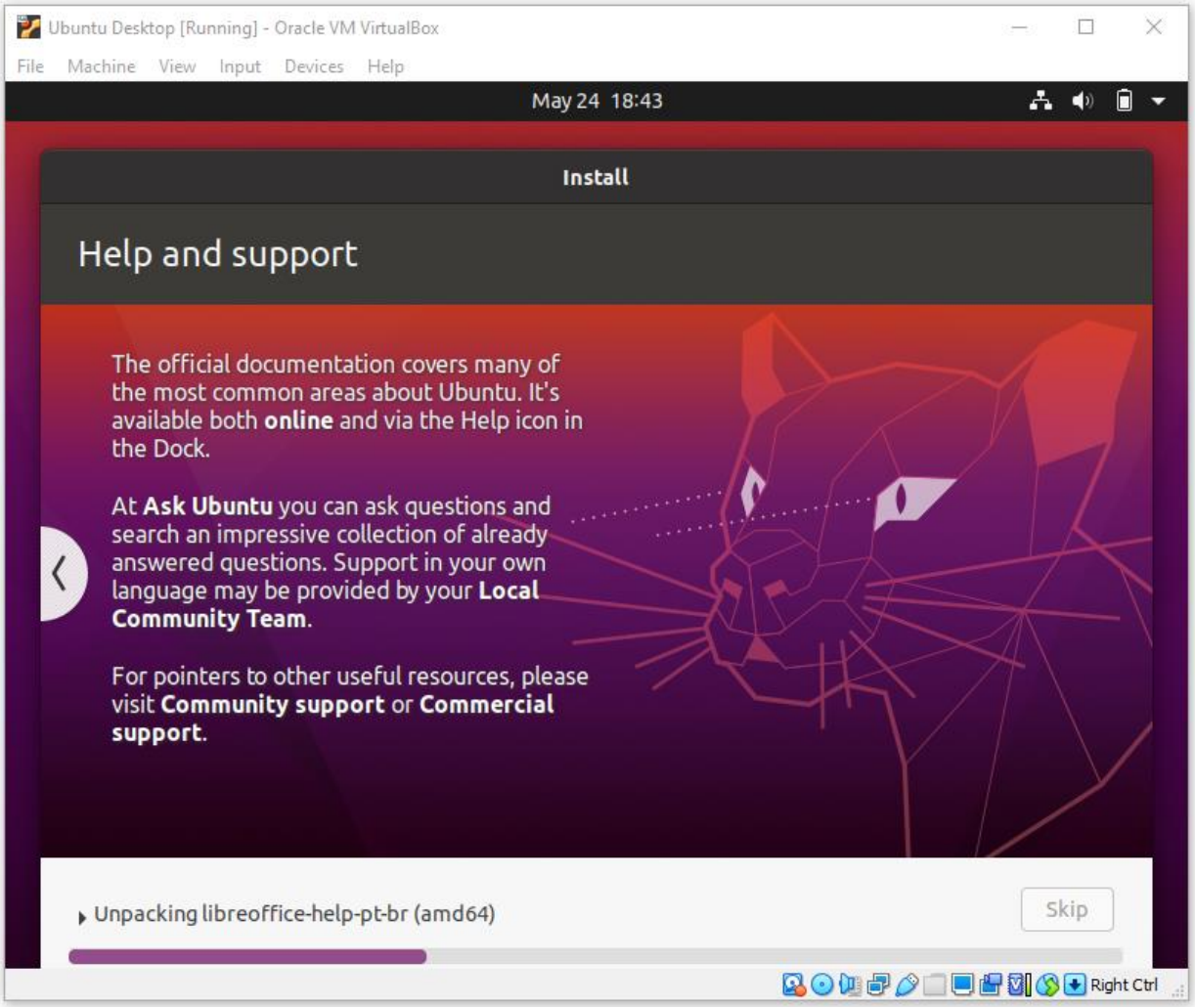
Step 6: On the **"Where are you?"** screen, select your location and click on ***Continue***. Note that time will be set automatically for the location you choose.



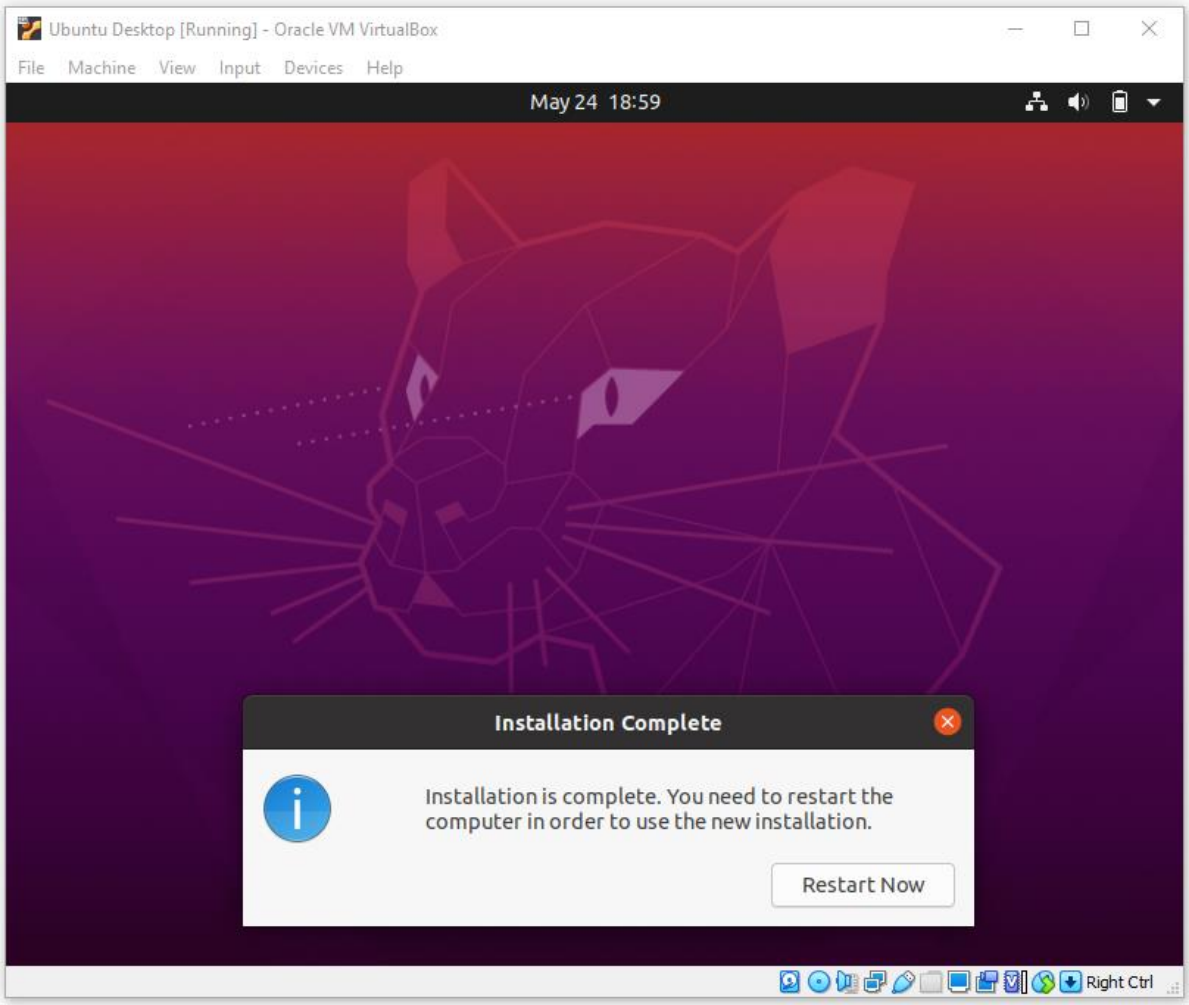
Step 7: On the ***"Who are you?"*** screen, configure the following details. Enter your user name, computer's name and a password. Click on ***Continue***.



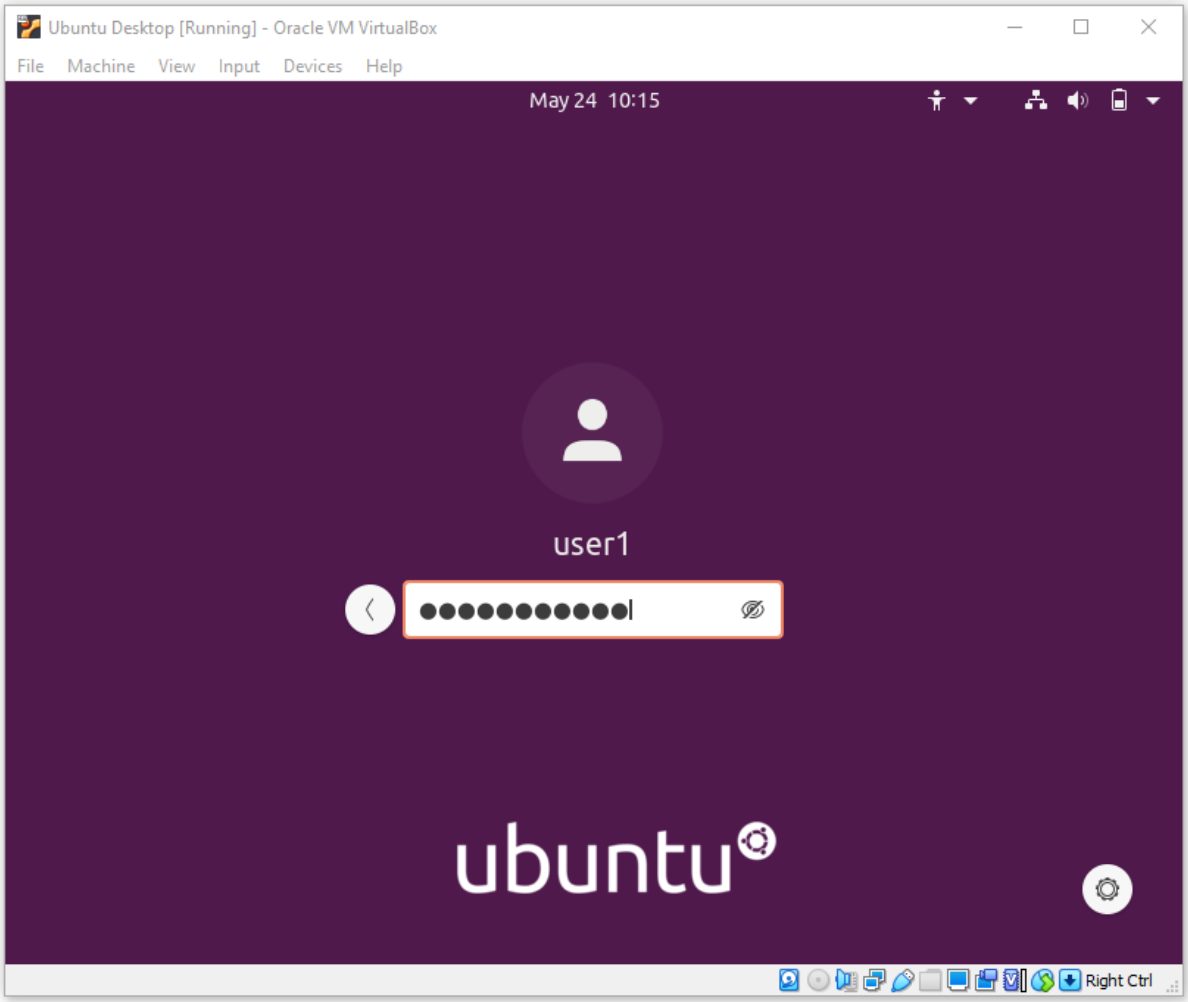
Note: During installation, you can see some useful tips on the screen as shown below.



Step 8: Once the installation is complete, you will see a notification window. Restart your VM with Ubuntu on VirtualBox.

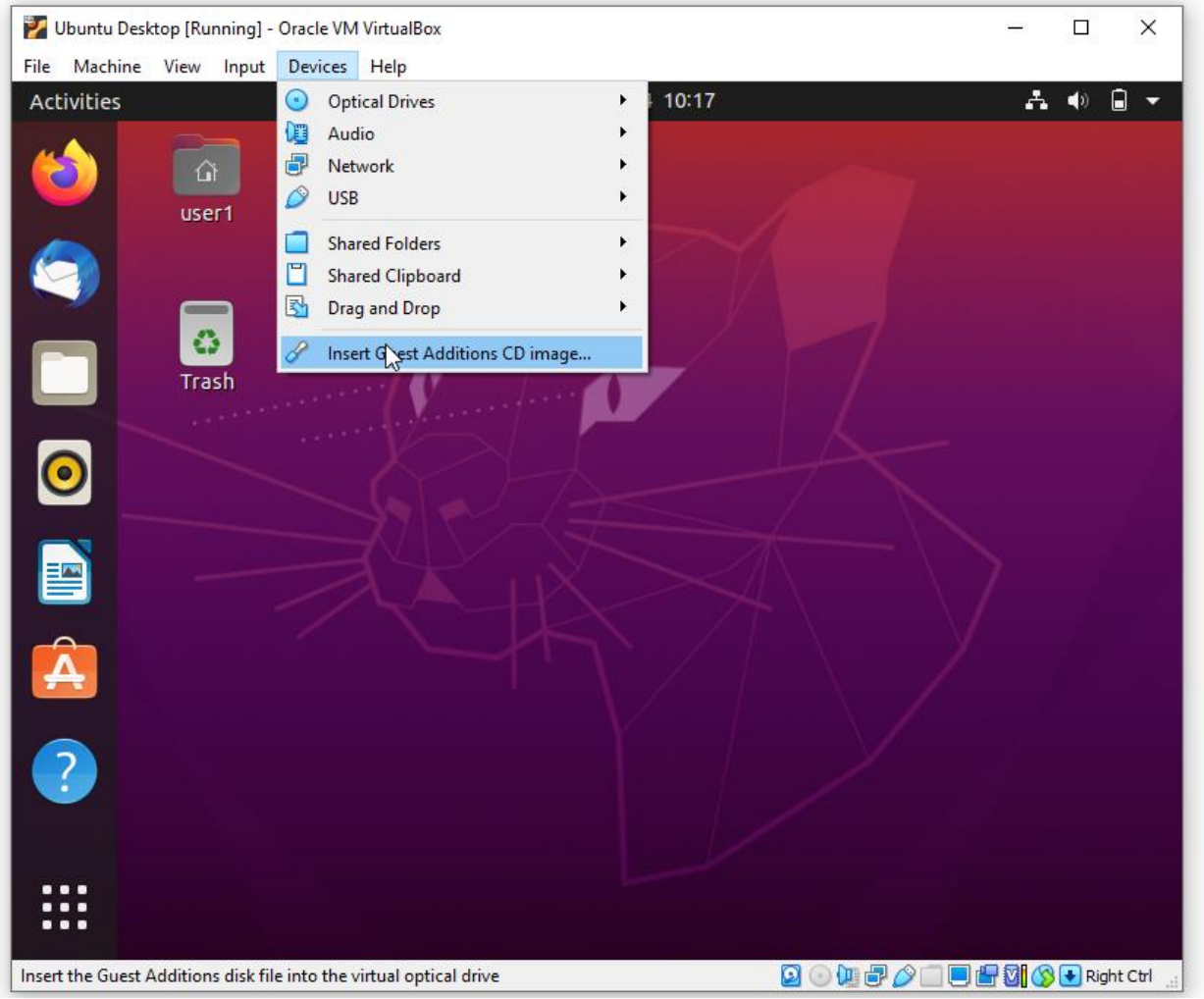


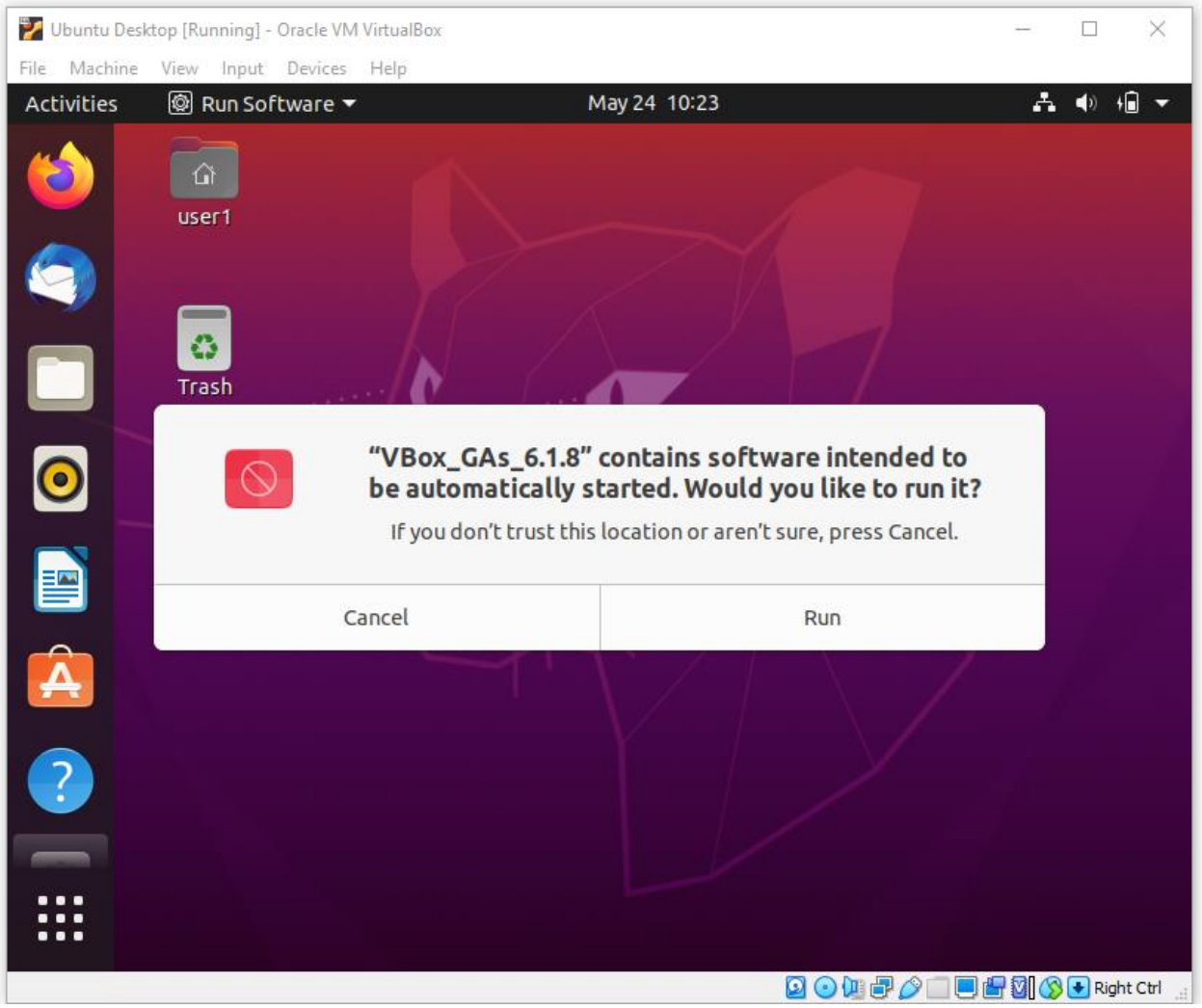
Step 9: Once you restart the VM, you will see the login screen. Enter the password that you have set up during installation and click ***Enter***.



Step 10: Lastly, install ***VirtualBox Guest Additions***. It is a set of drivers and system utilities intended to improve usability and performance of your VM.

To install VirtualBox Guest Additions, go to ***Devices*** and hit ***Insert Guest Additions CD*** image. Click on the ***Run*** button to start installing.


Ubuntu Desktop [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
10:17
Optical Drives
Audio
Network
USB
Shared Folders
Shared Clipboard
Drag and Drop
Insert Guest Additions CD image...
user1
Trash
Insert the Guest Additions disk file into the virtual optical drive
Right Ctrl



Step 11: At times, when you try to install VirtualBox Guest Additions, you might get a warning message saying "***Please install the gcc make perl packages***". In order to install these packages, execute the command:

sudo apt-get install build-essential gcc make perl dkms

Reboot the system. Once the system is rebooted, go the folder specified below:

cd ***/media/user1/VBox_GAs_6.1.8/***

Note: Make sure to give your username when navigating. In this case, the username is ***user1***.

Manually run the Linux installer of VirtualBox Guest Additions using:

sudo ./VBoxLinuxAdditions.run

That is it! Your Ubuntu VM is ready to use.