

NETWORK AND ADMINISTRATION LAB



USER DOCUMENTATION

VIRTUAL BOX SETUP AND OS INSTALLATION



DEEPAK V
S2 MCA
17

PRE REQUIREMENTS

1. System with Windows OS 7 or later.
2. Minimum 10GB of free storage space to allocate.
3. Minimum 1GB of memory space to allocate.
4. .iso file for OS installation. Choose according to system compatibility.
Here we are using Ubuntu 20.04 OS 64bit.
5. Processor of either Intel i3 or later or AMD Ryzen 3 or later.

HOW TO PICK OS FOR VM INSTALLATION?

1. Check minimum requirements specified by the OS.
2. Check processor version support i.e., 32bit or 64bit.
3. If you want specific OS version in Ubuntu
 - Open any browser.
 - Search Ubuntu Old versions.
 - Open Index of/releases.
 - Choose appropriate OS and support version.

THINGS TO KNOW BEFORE VM INSTALLATION

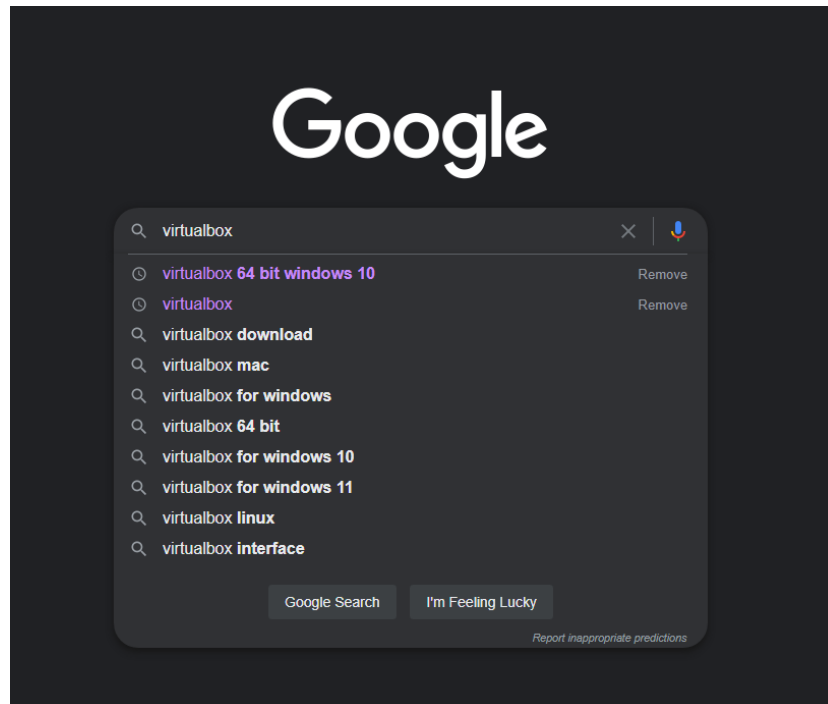
1. Choose Virtual Box according to your system specifications.
2. Follow the steps as mentioned below correctly.
3. Install only one OS at a time otherwise system may crash.
4. Install only those OS which is compactable to parent system.
5. This guide is only for Ubuntu installation so different OS differ in steps for OS installation.

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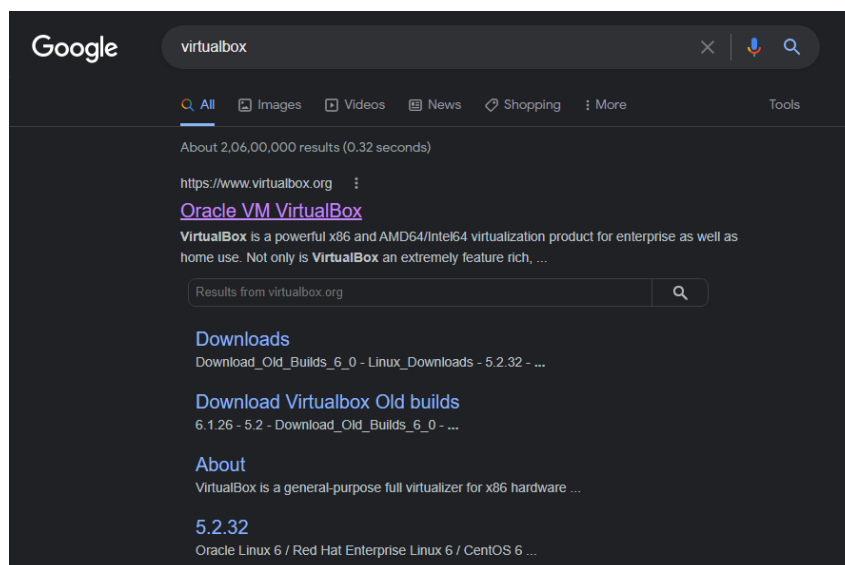
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1.DOWNLOAD THE VIRTUAL BOX

Step 1: Open any browser say Google Chrome and search for 'virtual box' to download the latest version. If your system supports only certain criteria like 32-bit OS or Windows old version search with specific criteria like 'virtual box for 32bit windows 7' like that.



Step 2: Search and choose the first option.



Step 3: Choose download virtual box with version number (Here, Download VirtualBox 6.1).



Step 4: Choose Windows Hosts for windows and download gets started automatically.

VirtualBox binaries

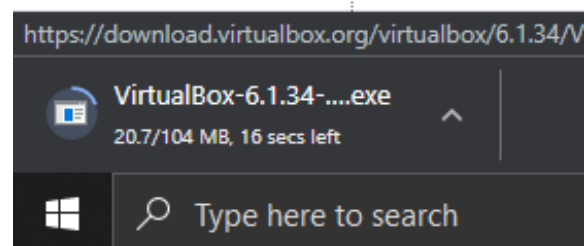
By downloading, you agree to the terms and condit

If you're looking for the latest VirtualBox 6.0 packa

If you're looking for the latest VirtualBox 5.2 packa

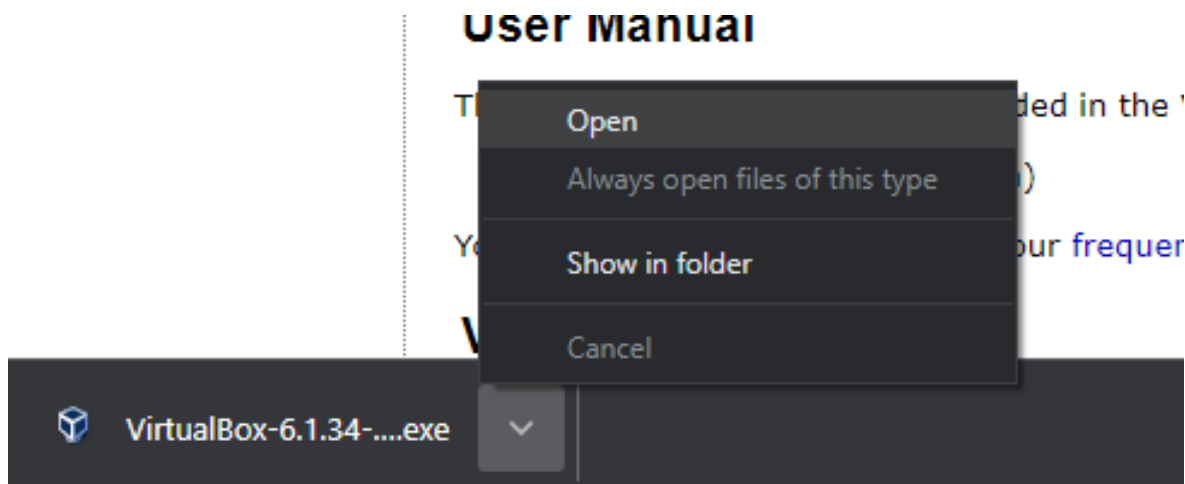
VirtualBox 6.1.34 platform packages

- [Windows hosts](#)
- [OS X hosts](#)
- [Linux distributions](#)
- [Solaris hosts](#)
- [Solaris 11 IPS hosts](#)

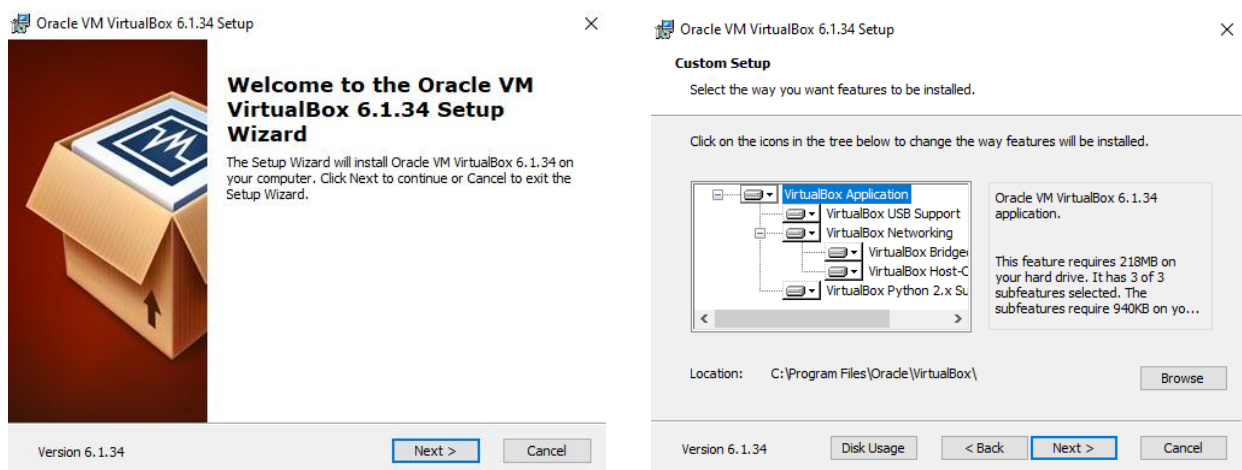


2.INSTALL THE VIRTUAL BOX

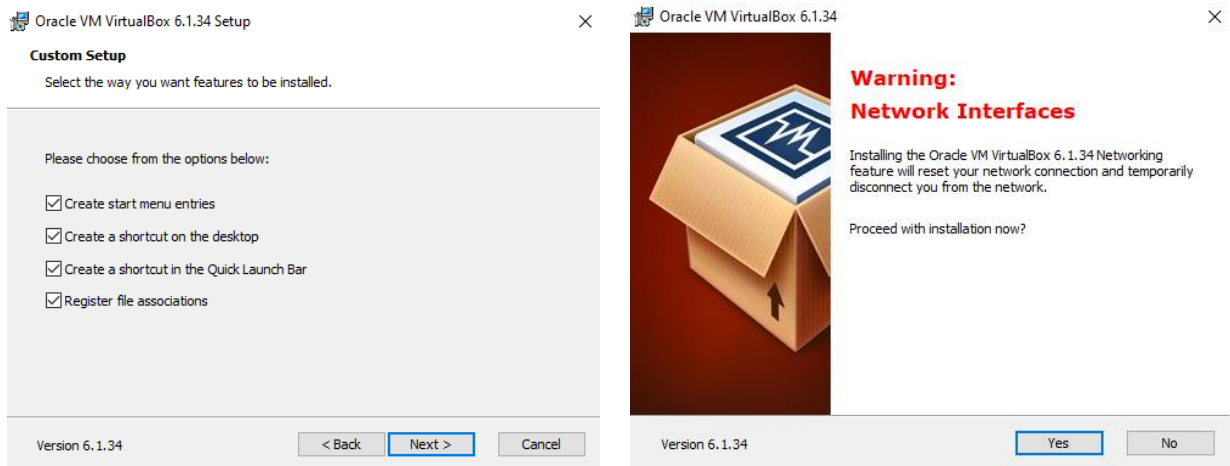
Step 1: Open Virtual Box form downloads.



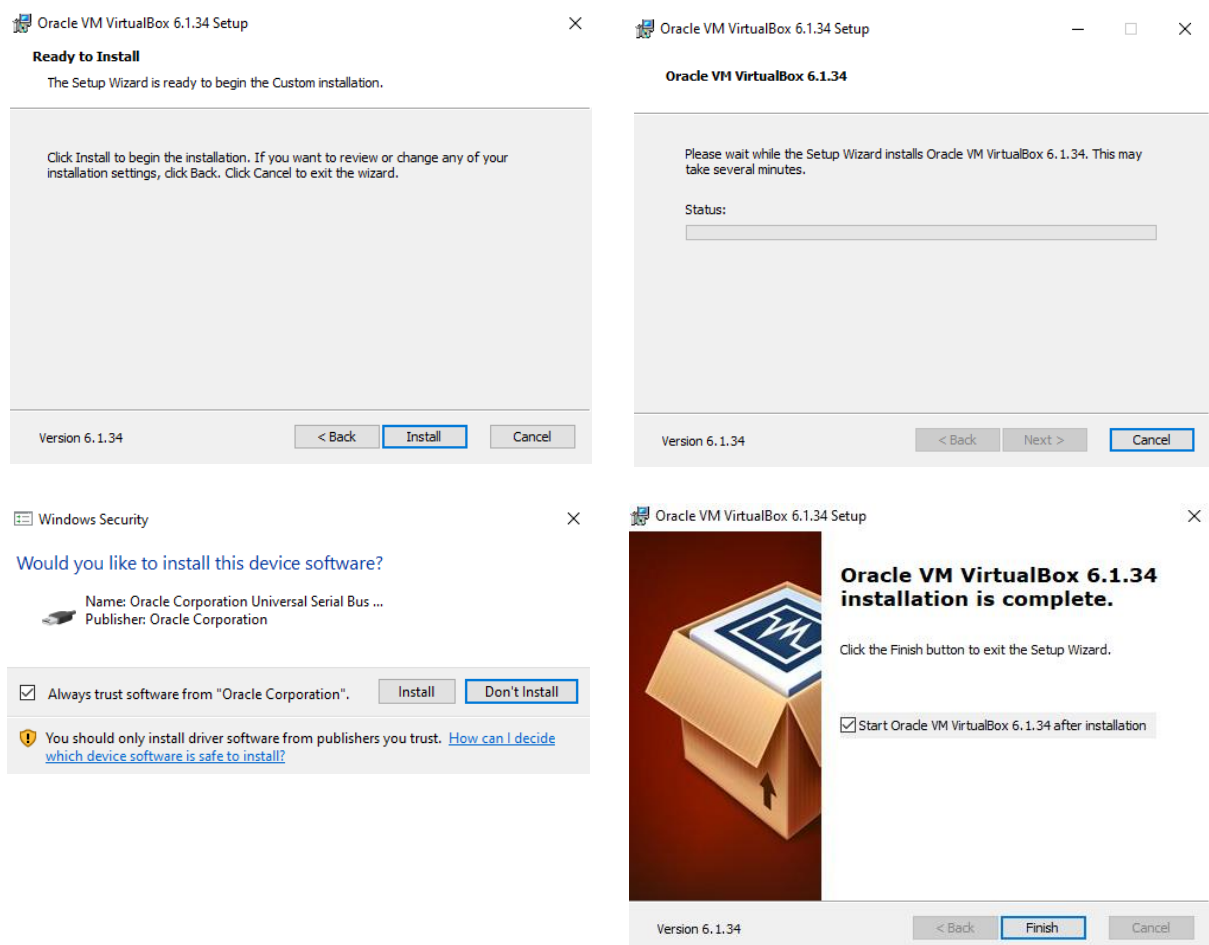
Step 2: First click next. If you wish to change location, you can change it.



Step 3: Then select all options and choose next. Then, press yes for installation.

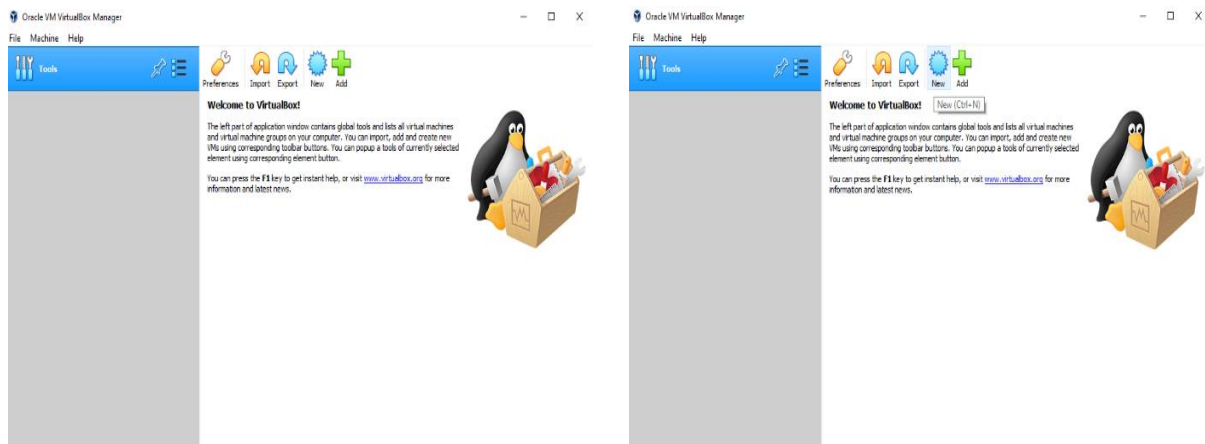


Step 4: Then select install for Virtual box and device. Then, click finish after installation.

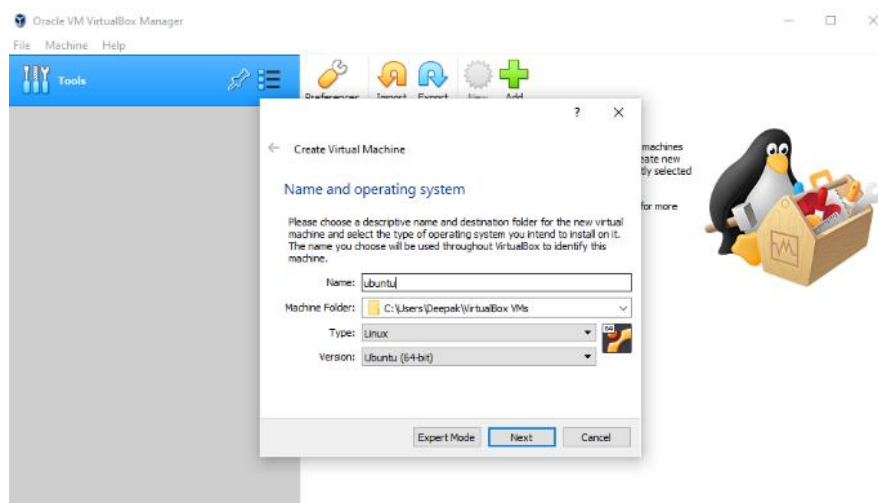


3.ASSIGN PARTITION ON VIRTUAL BOX FOR INSTALLING OS

Step 1: Open Virtual Box and choose New or simply Ctrl+N.

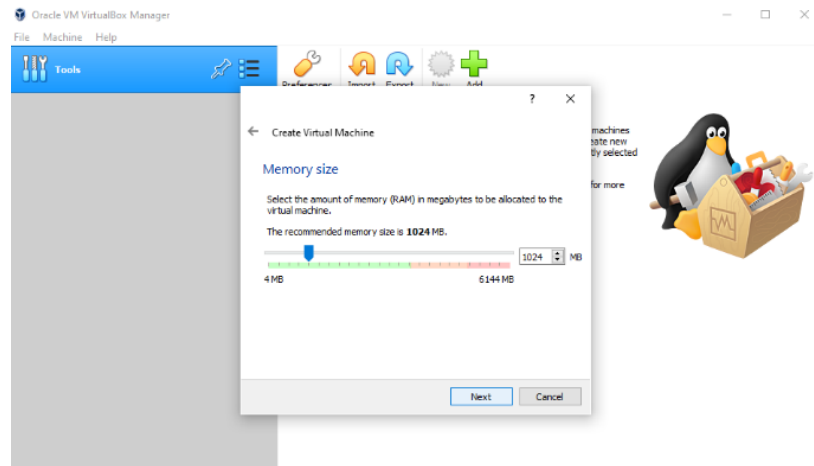


Step 2: After choosing New a popup box appears and you can choose name, folder where OS to be installed (Machine Folder) then type and version of the OS. Here, I am Choosing **Ubuntu OS of 64bit**.Then, click next.



Remember, choose only those OS which meets with the minimum requirements specified and choose only the version which supports your device's processor else its leads to software crashes and installation failures.

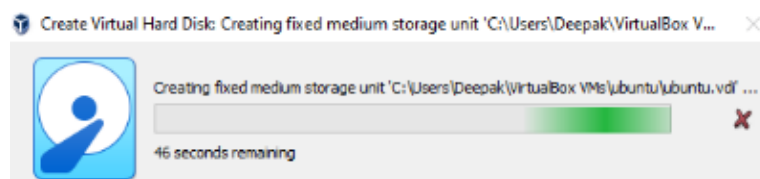
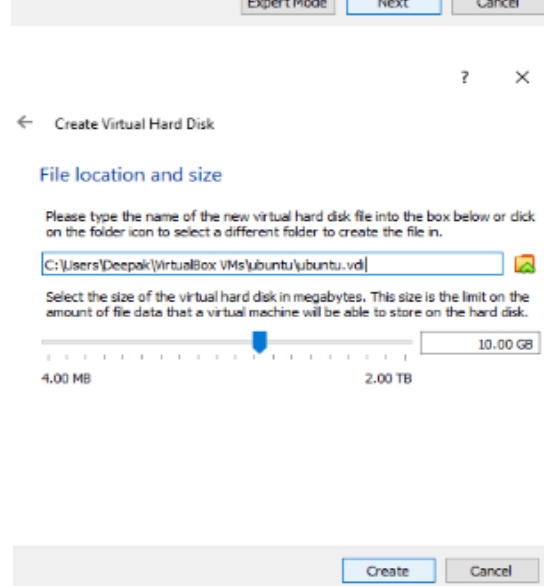
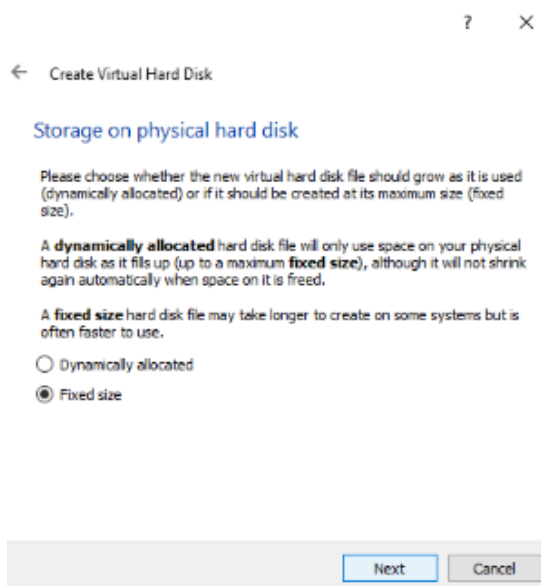
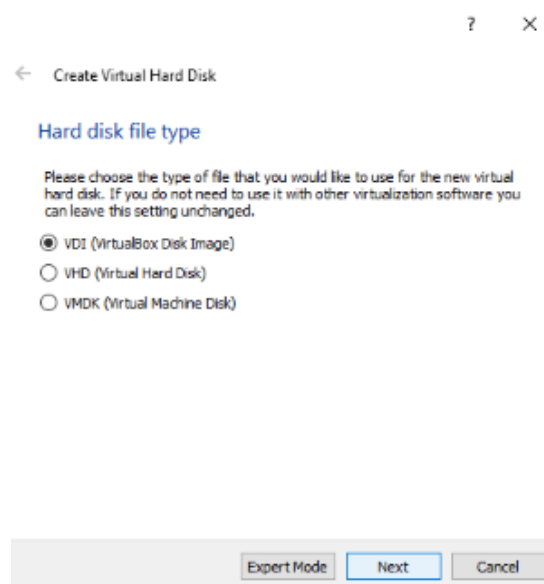
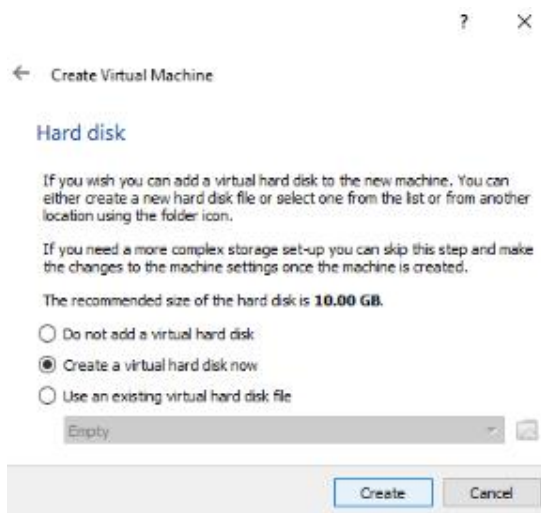
Step 3: Choose appropriate memory size minimum recommended is 1GB(1024MB).



Remember, choose memory size by looking forward the needs of both parent and child OS. Some OS may differ in minimum recommended memory size. So, choose wisely.

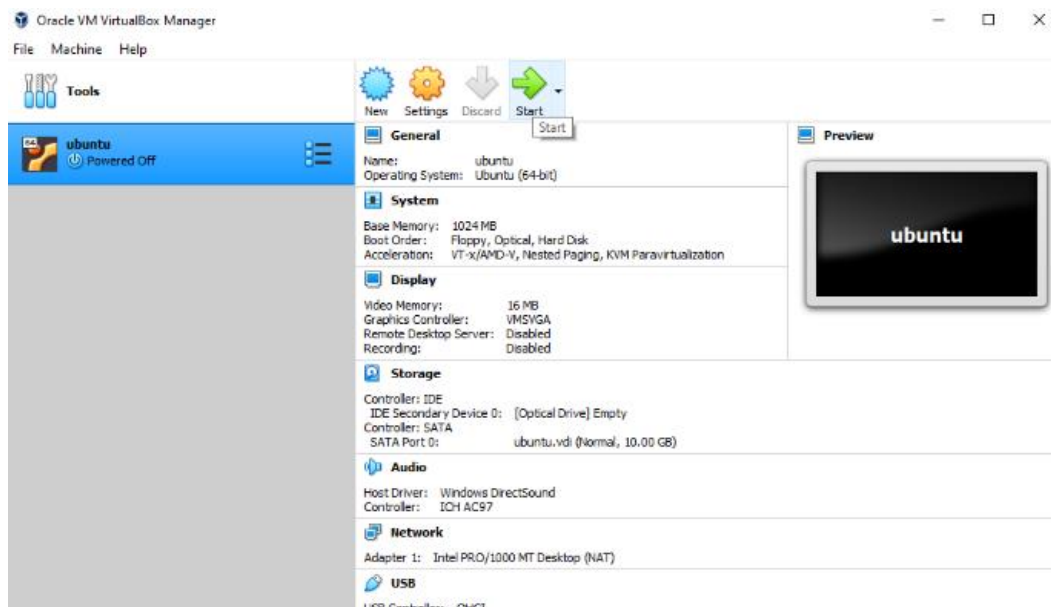
Step 4:

- i. You can either choose create virtual hard drive(recommended) or use an existing virtual hard drive file.
- ii. Choose VirtualBox Disc Image(VDI).
- iii. You can choose either dynamically allocated or fixed size according to your needs.
- iv. You can change file location to run your OS if needed and choose the hard drive space wisely according to OS specification and your needs. Here, minimum is 10.00GB
- v. After all the above configuration a partition or we can say a virtual machine space is allocated for installing an OS.

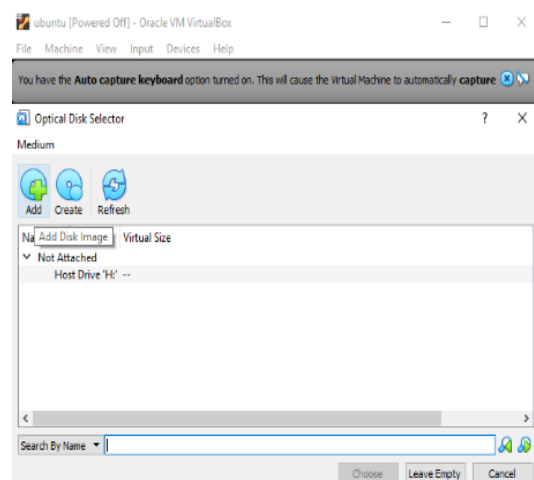
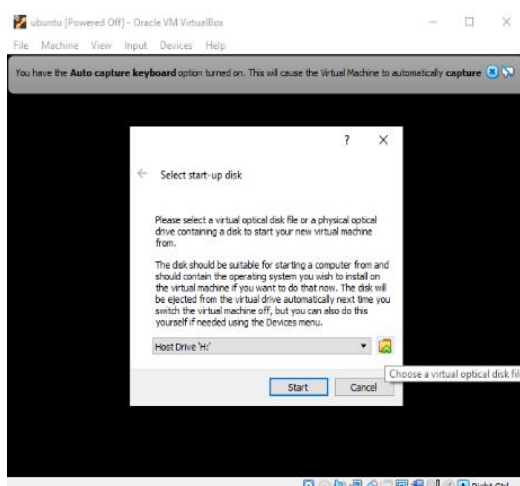


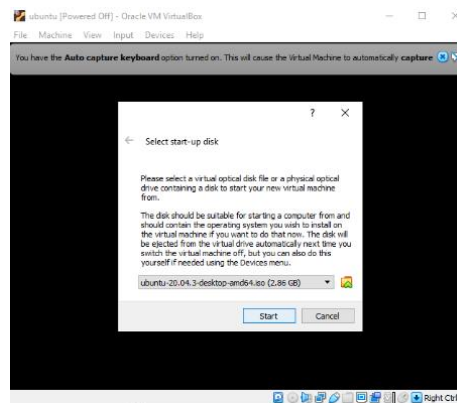
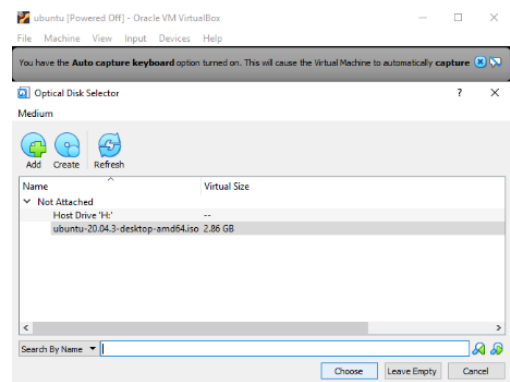
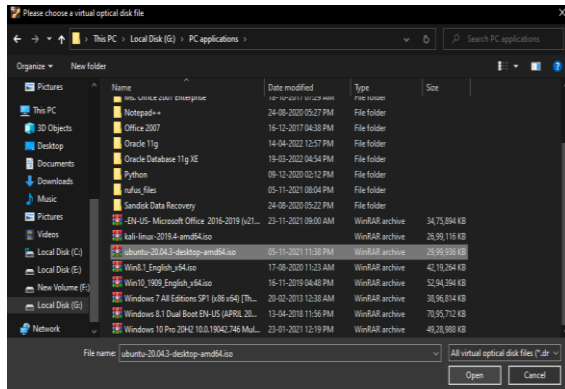
4. OS INSTALLATION (Ubuntu OS v20.04 64bit)

Step 1: By selecting the virtual machine click start.

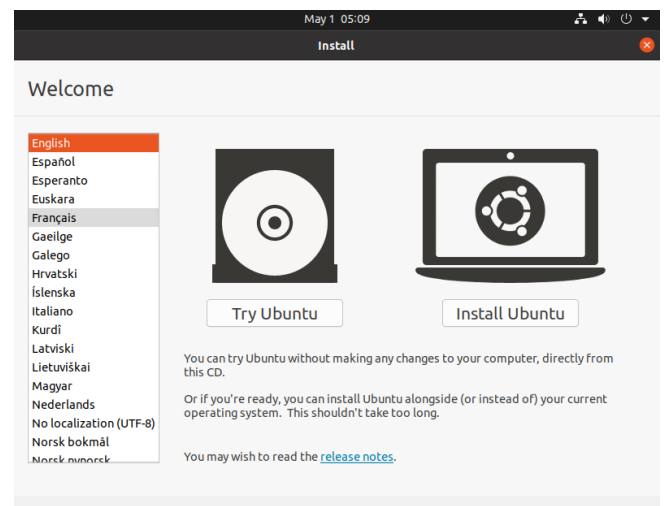
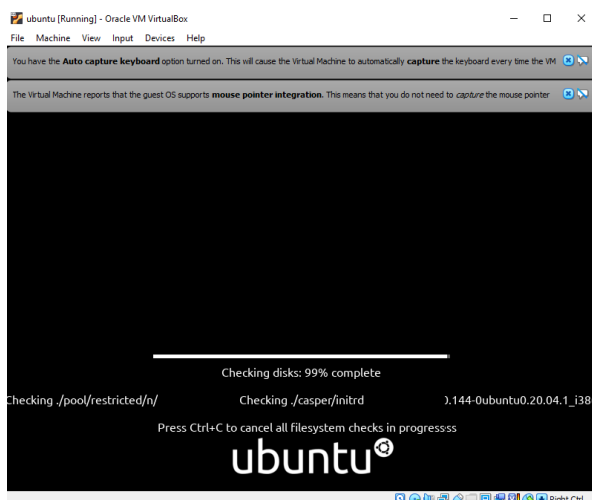


Step 2: Select folder icon and choose the .iso file of the intended OS to be installed (folder icon->Add->Browse to .iso file location->open->choose iso) and click start to install.

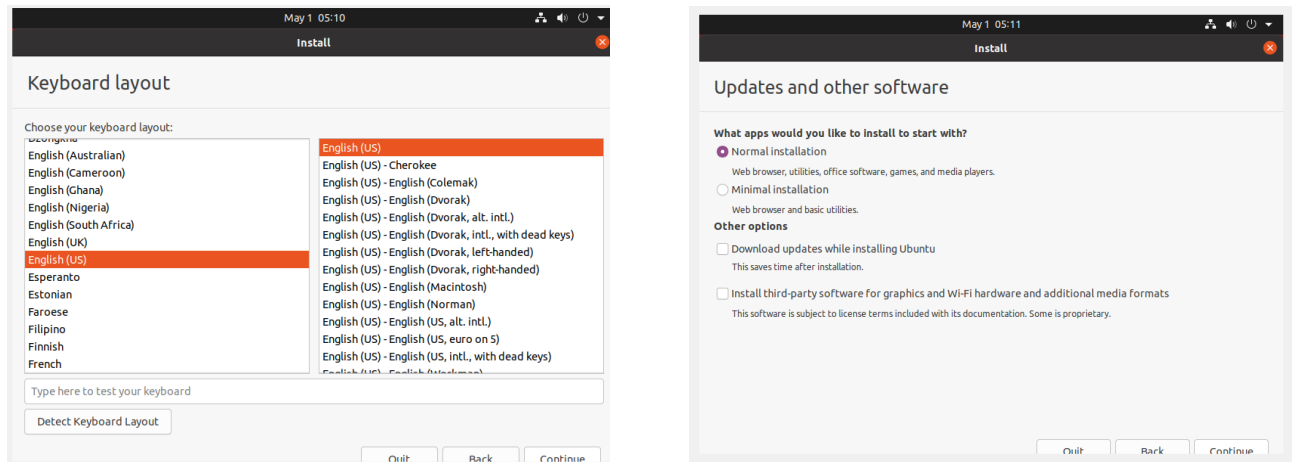




Step 3: Here after loading click install Ubuntu.

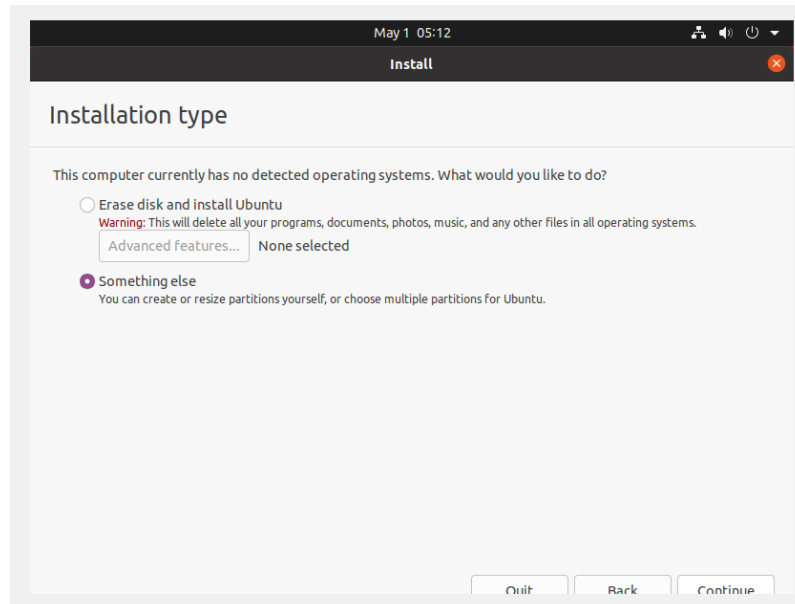


Step 4: Choose Appropriate Keyboard layout and choose continue likewise choose normal installation and you can choose updates and third party software for installation.

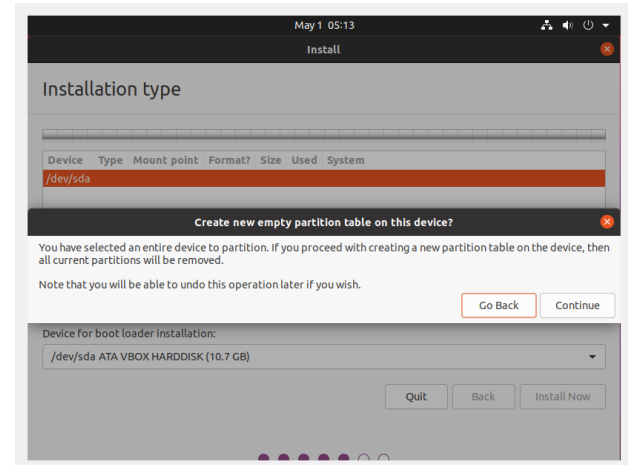
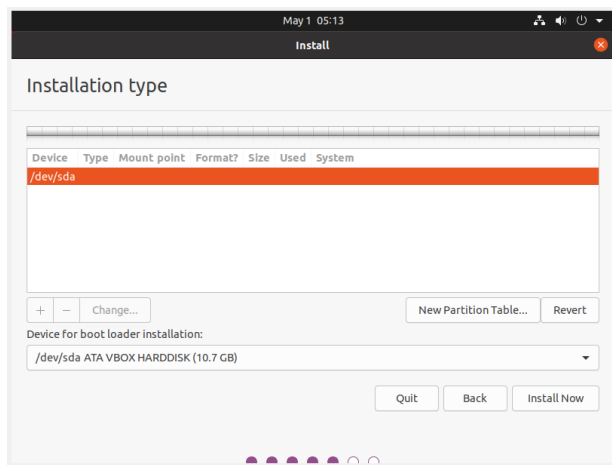


Remember, for updates and third party software installation active internet connection is required.

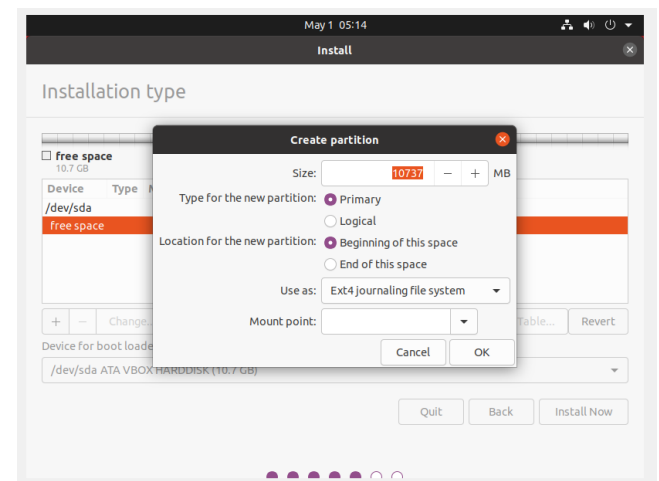
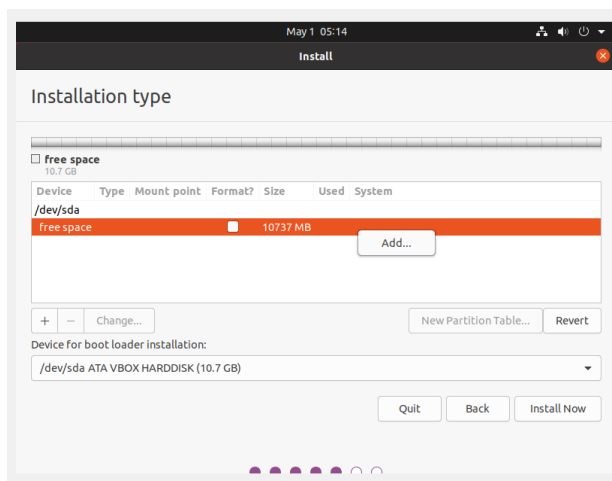
Step 5: Choose installation type something else and continue.



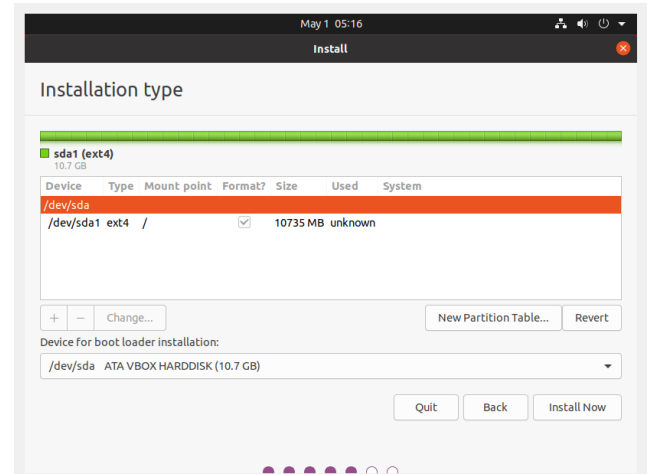
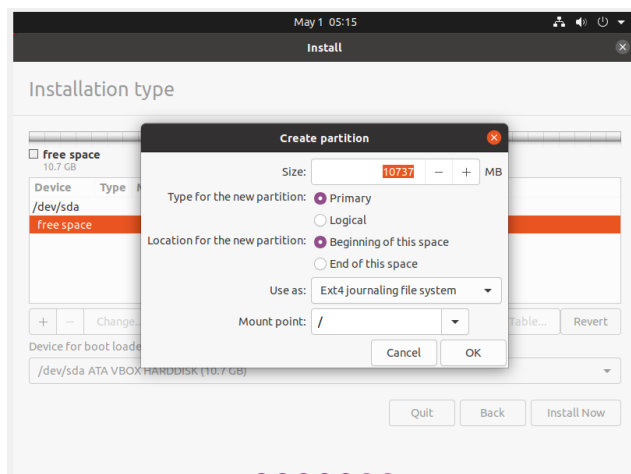
Step 6: Select new partition table and select continue.



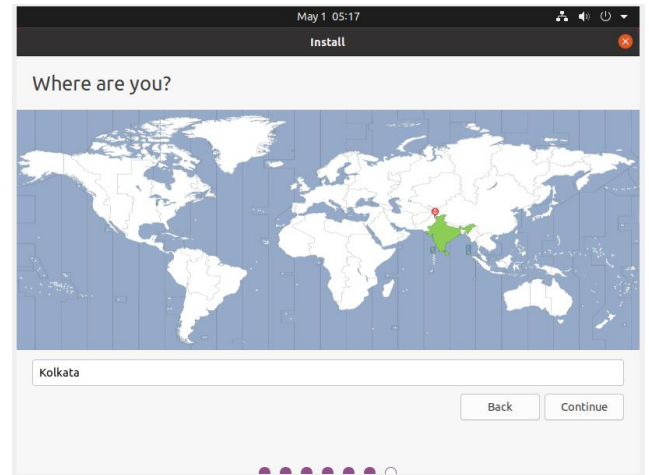
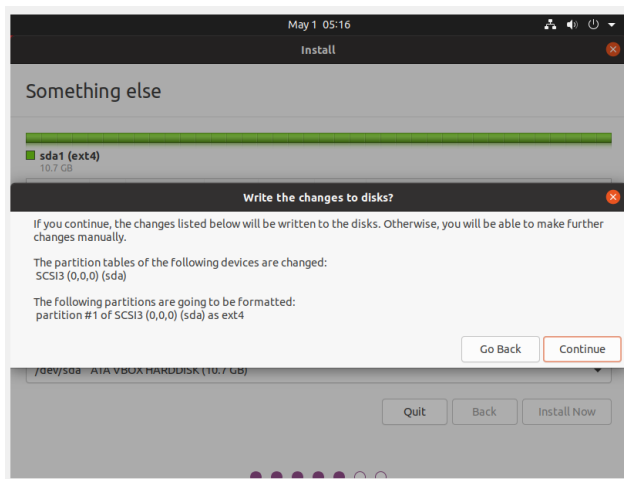
Step 7: Now we can see the allotted space of 10GB (On 3.4.iv) is available so right click on it and choose add. After choosing a pop up box appears.



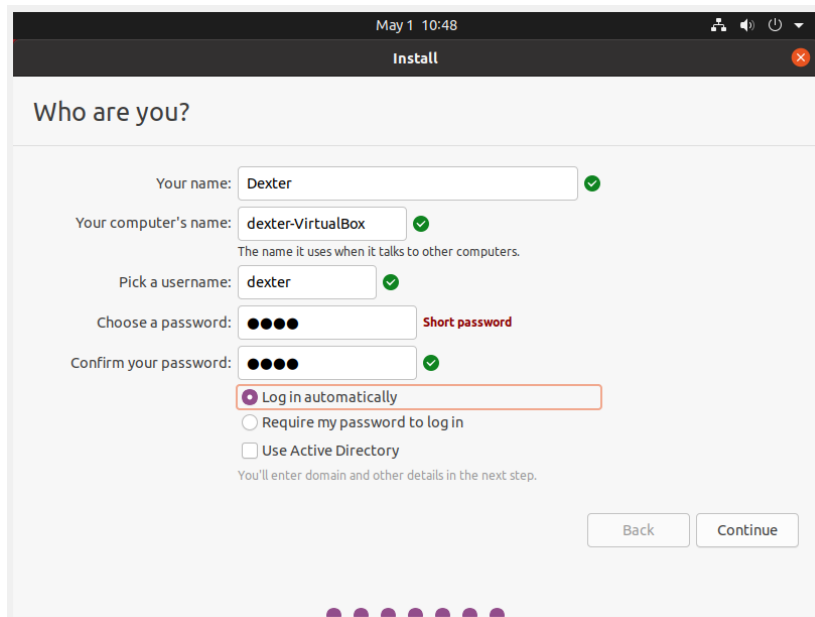
Step 8: Choose Mount point as / then click OK and we can see the 10GB space is taken for installing the OS. Select Install Now.



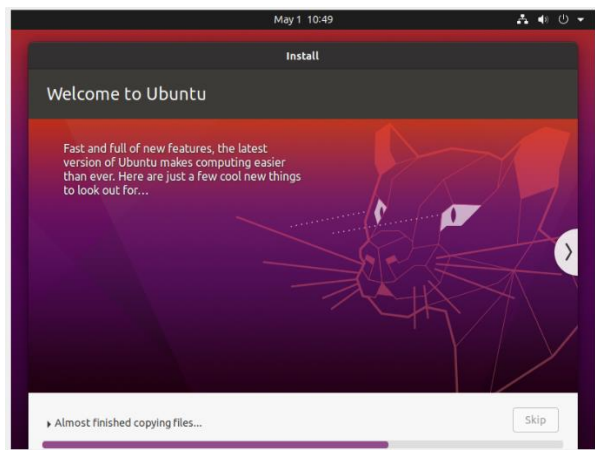
Step 9: Select continue and set Time Zone and select continue.



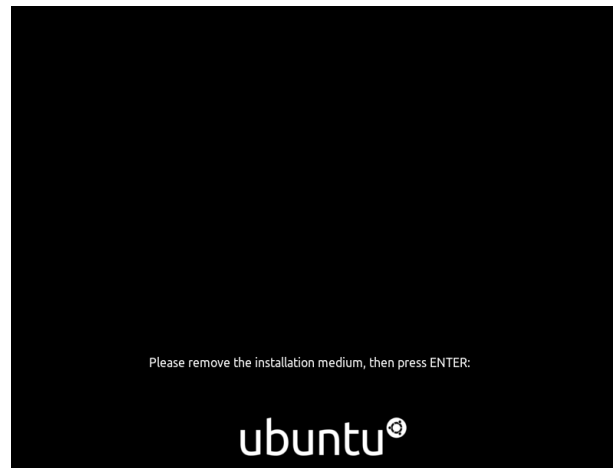
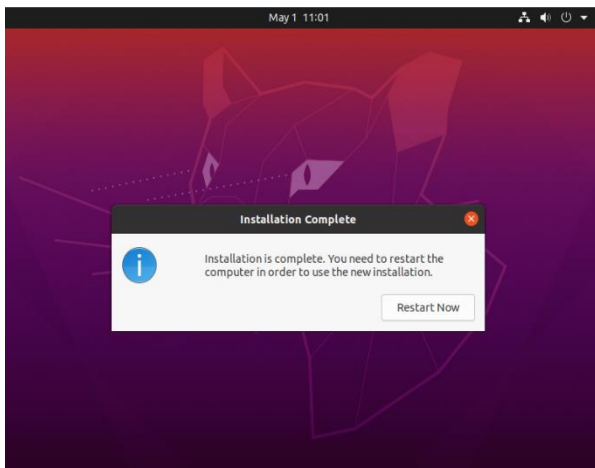
Step 10: Fill the System name and login credentials then press continue and login options is your preference.



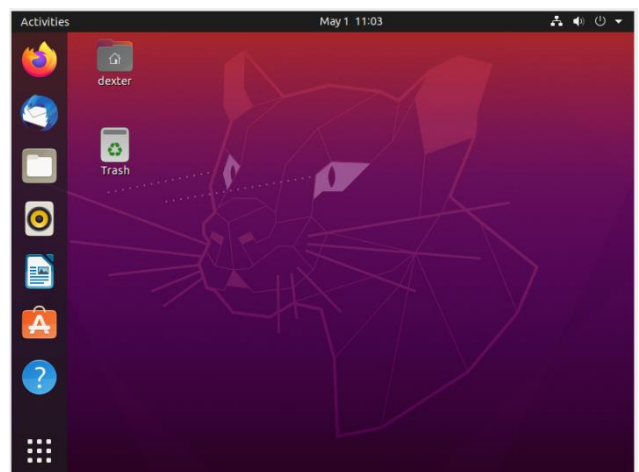
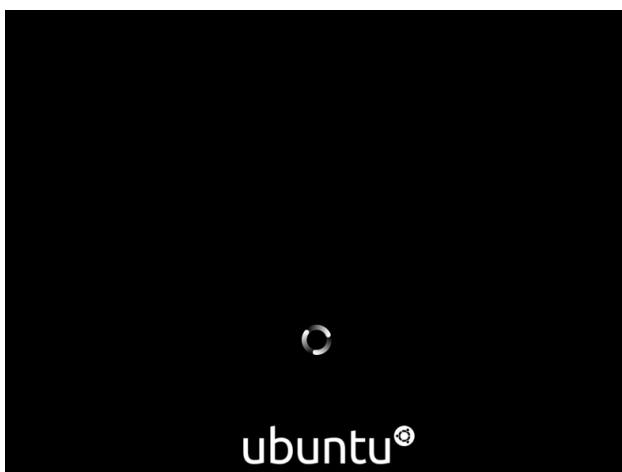
Step 11: Wait for installation process to complete it takes few minutes.



Step 12: After installation popup box pops out and click Restart Now and press enter key.

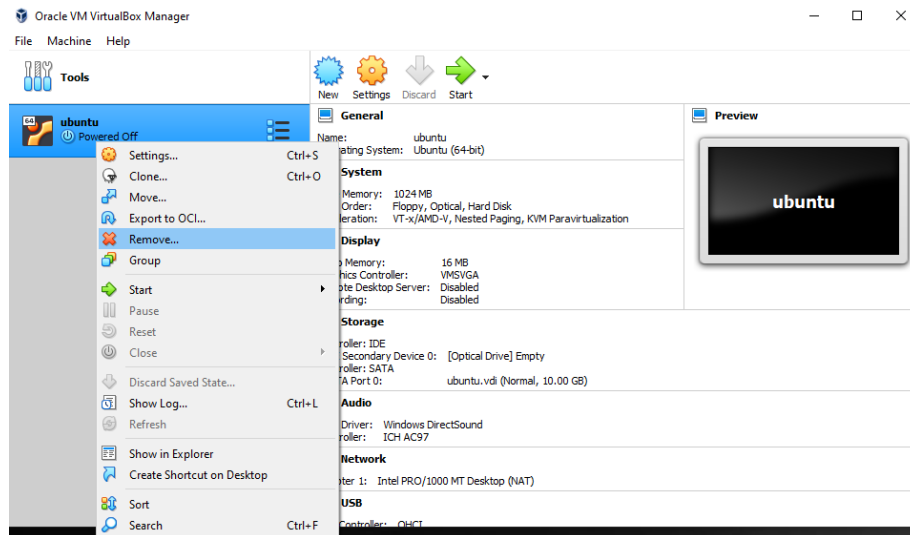


Step 13: Now Ubuntu OS v20.04 64bit is installed and ready to use.



5. REMOVE VIRTUAL MACHINE

Step 1: Right click on Virtual Machine(VM) you want to remove and choose remove option.



Step 2: Choose Delete all files for delete OS, partition etc...; Remove only just removes the OS. Choose according to your choice.

