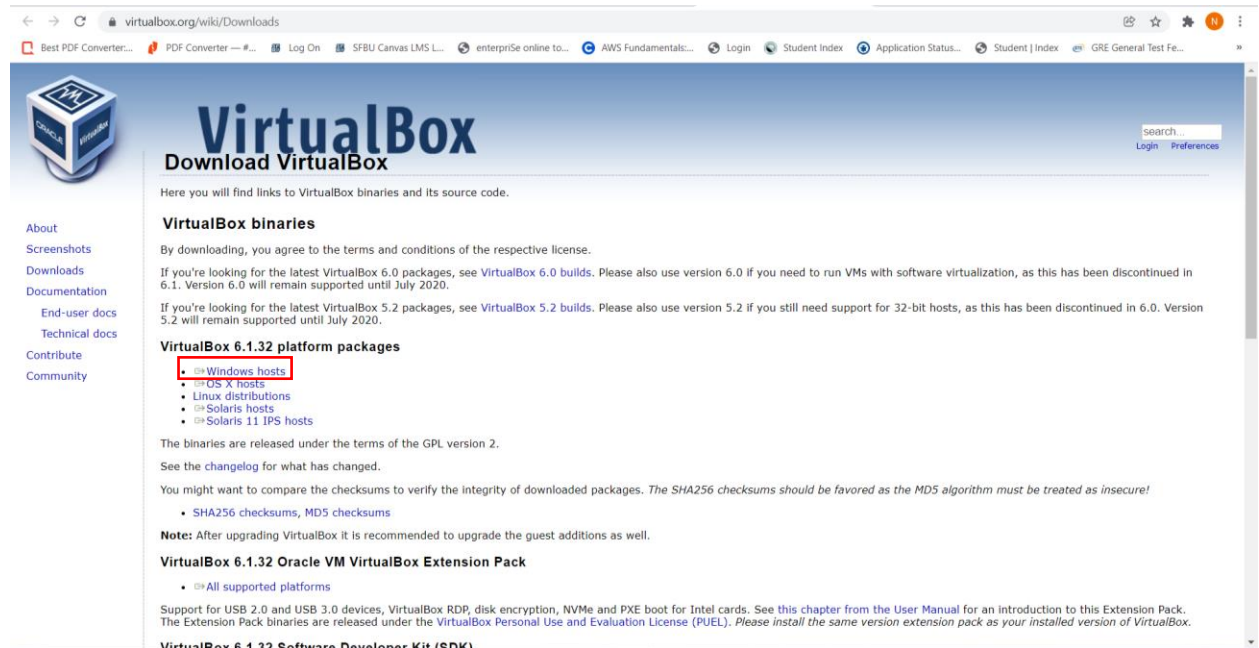


CS571 – Cloud computing Infrastructure

Setup Ubuntu 20.04 on VirtualBox on Windows 10

1. Download VirtualBox Windows host package from the official site

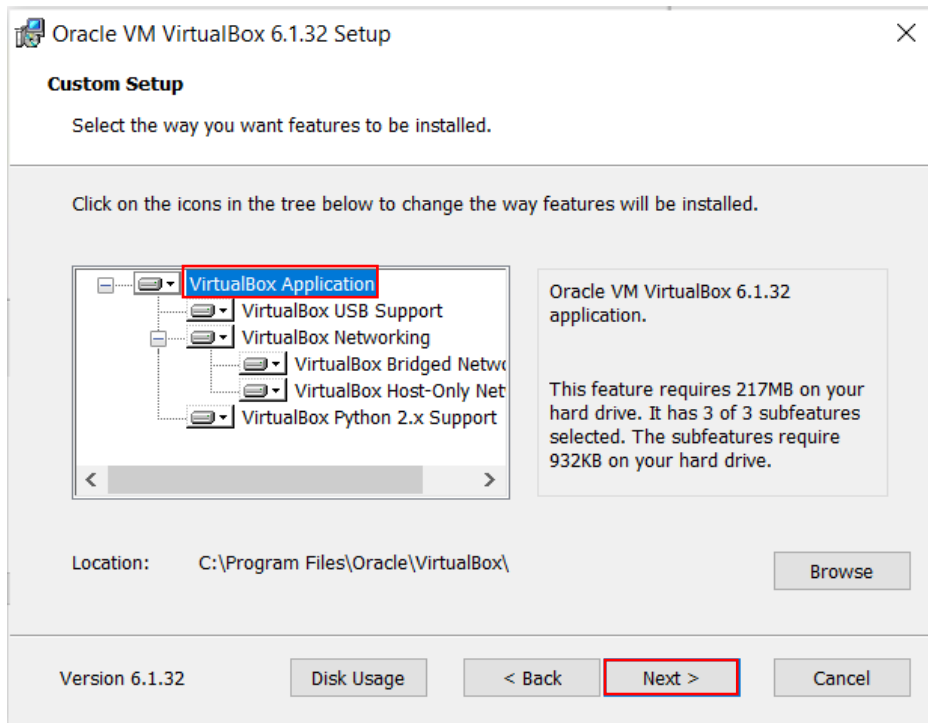
<https://www.virtualbox.org/wiki/Downloads>



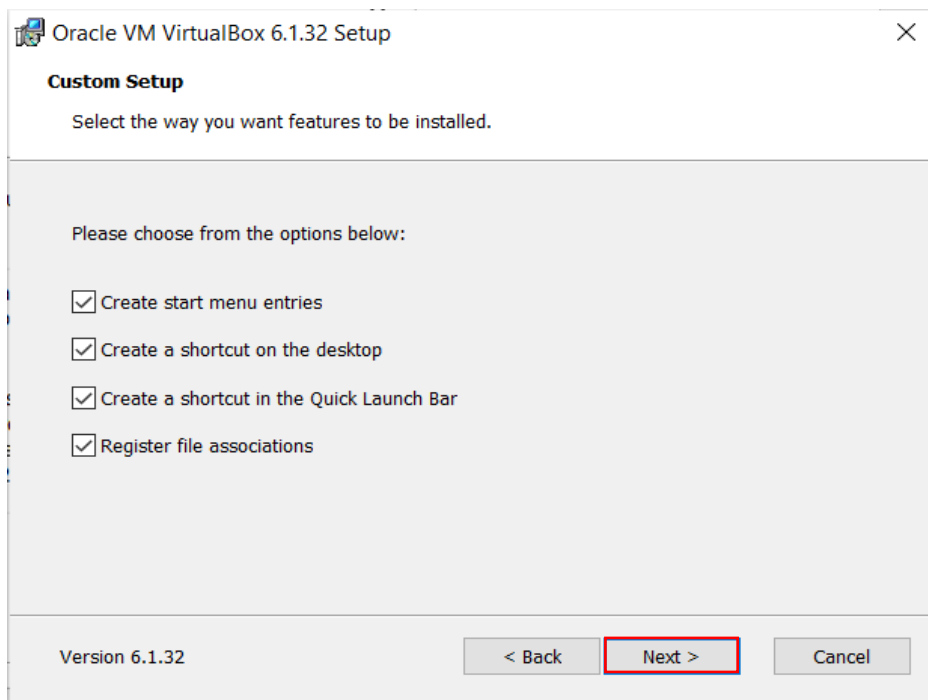
2. Run the downloaded VirtualBox-6.1.32-149290-Win.exe file and select Next



3. Select VirtualBox Application option and select Next



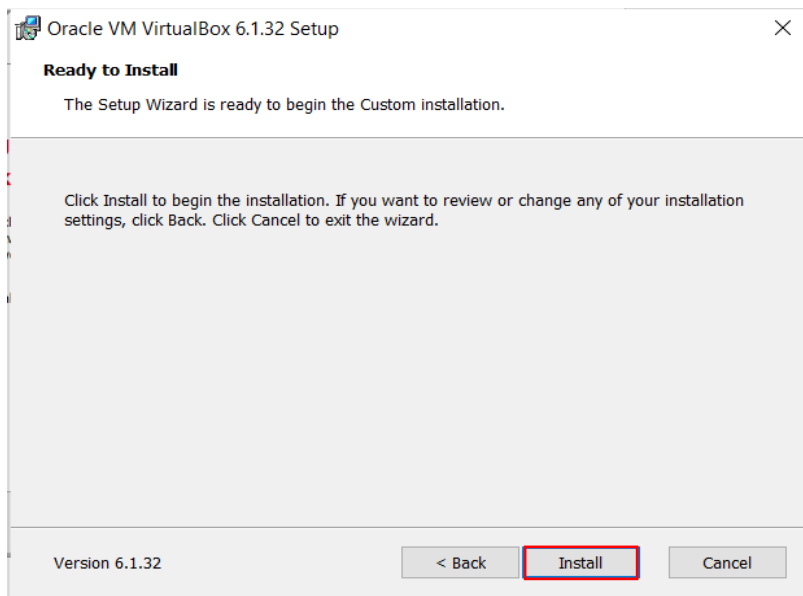
4. Keep selected all options by default and press Next



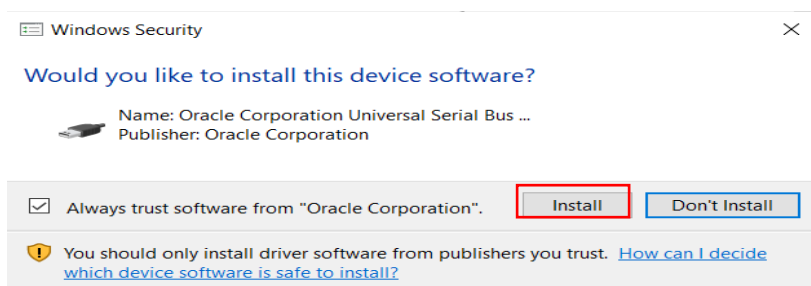
5. It is Network Interface warning, Press Yes



6. Now, VirtualBox is ready to install, Press Install



7. Windows Security take permission to install Oracle Serial Bus software, Select Install



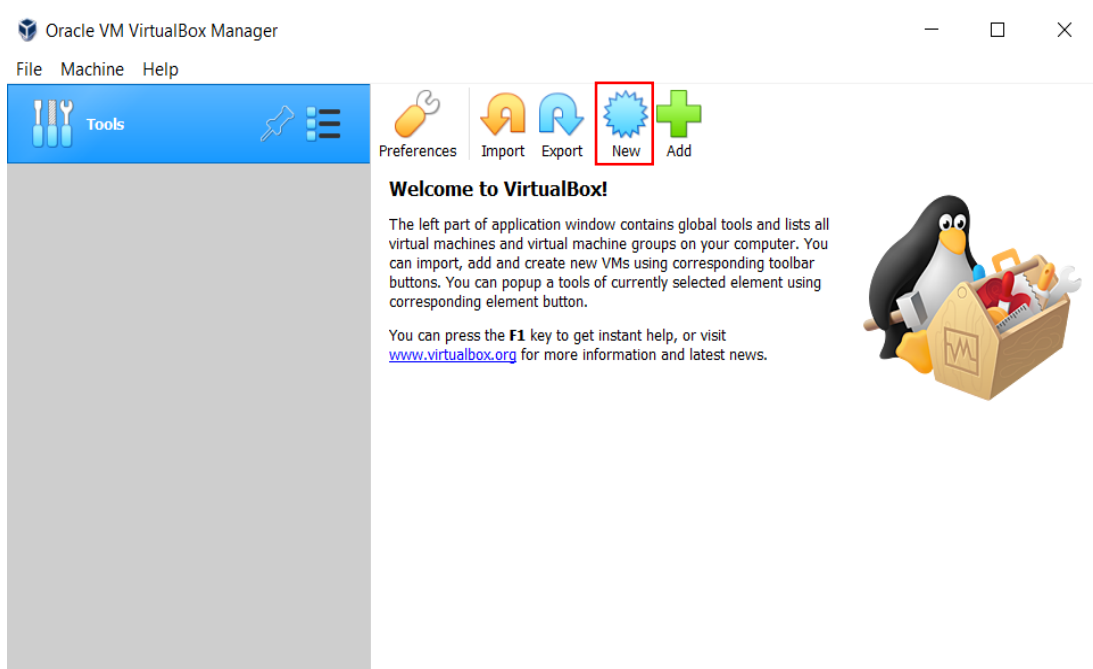
8. Finally, the VirtualBox is successfully installed and is ready to use, press Finish



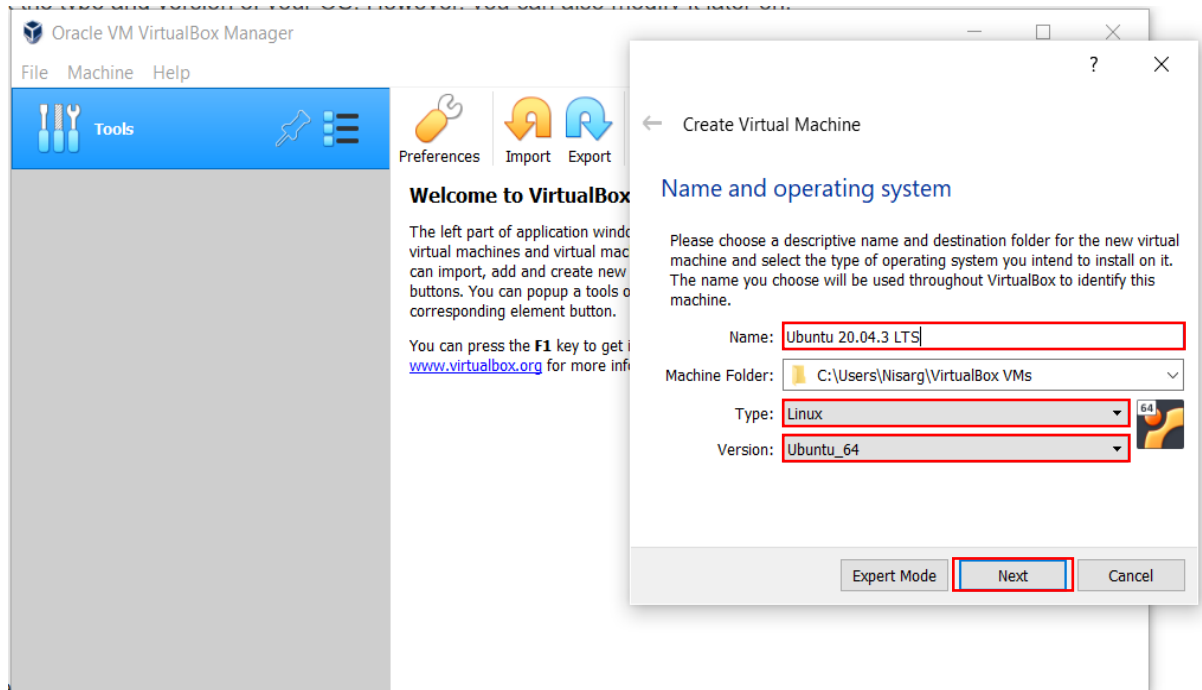
9. Download the Ubuntu 20.04.3 LTS ISO image file from the official site

<https://ubuntu.com/download>

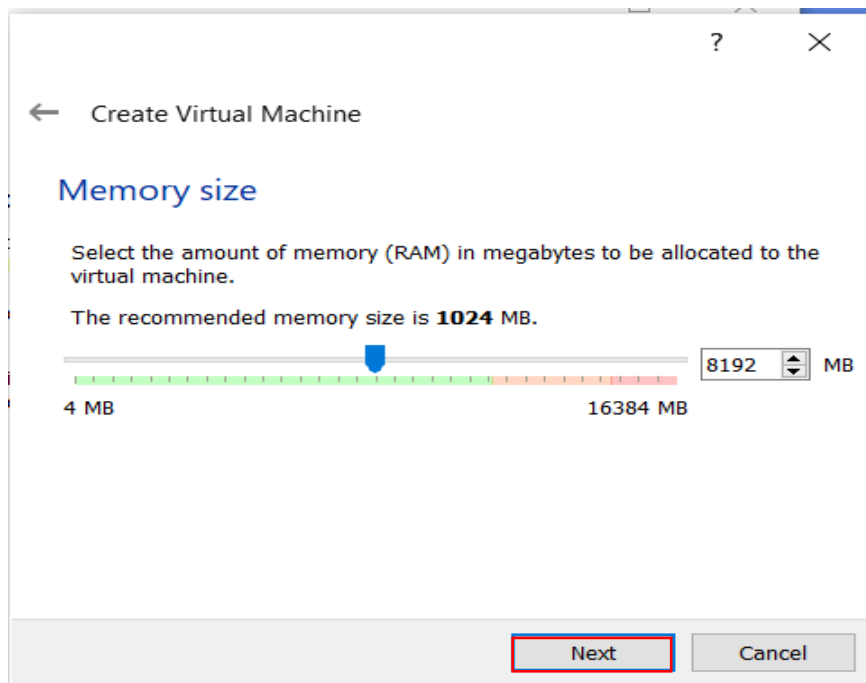
10. Now open the Virtual Box and select New



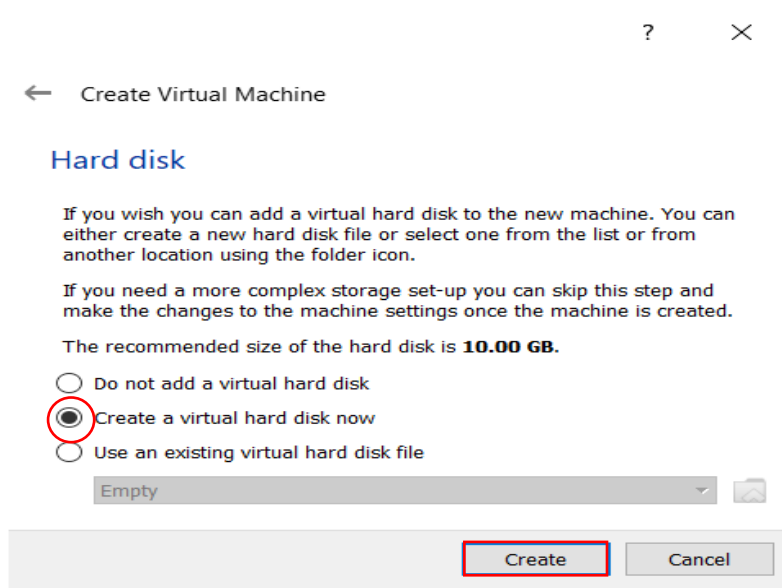
11. Enter the name of virtual machine and select the operating system and version based on your requirements.



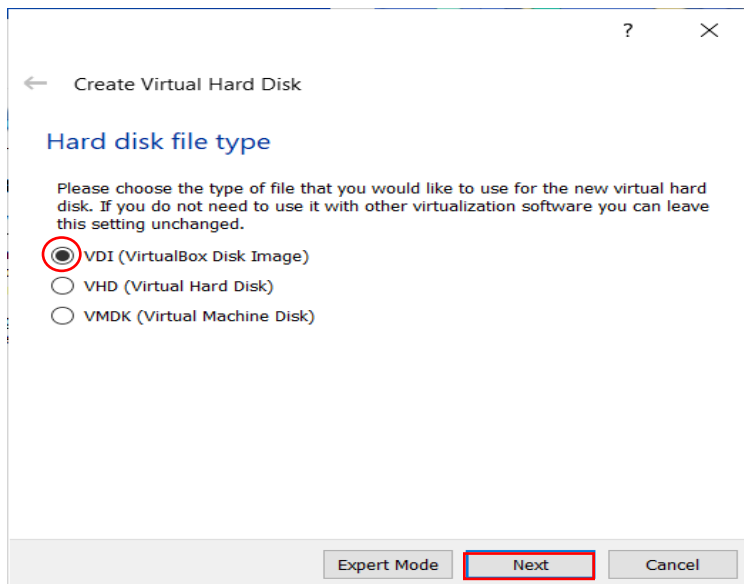
12. Select the half of the RAM size of your host system RAM size for better performance and continue Next.



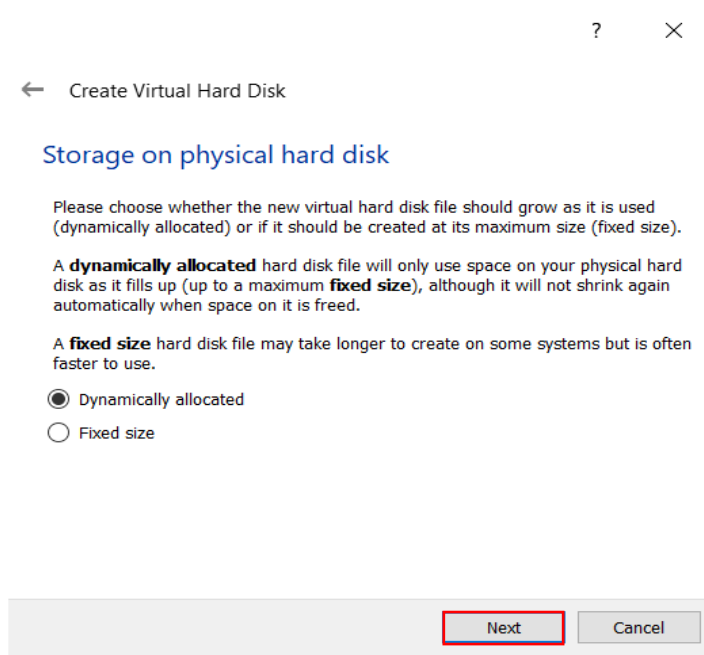
13. Leave it as default Hard disk settings and press Create button



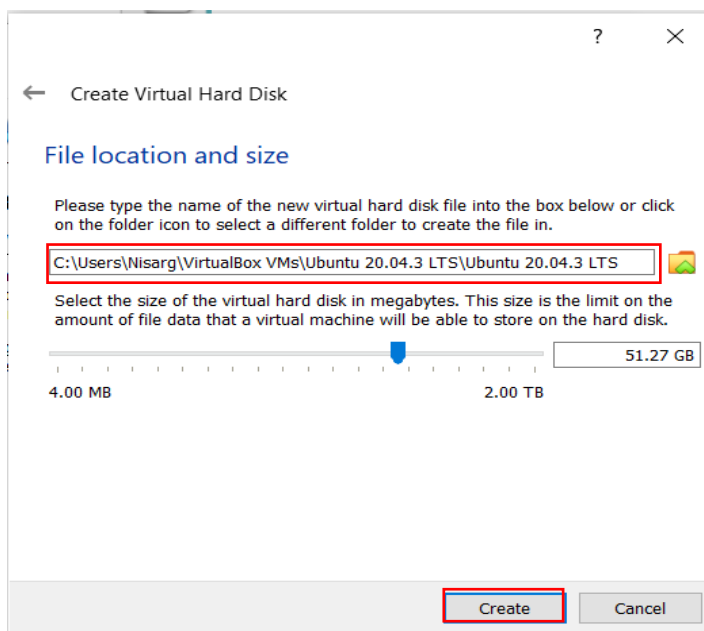
14. Select the VDI which is VirtualBox native file format. It creates a single .VDI files and stores a whole virtual operating system.



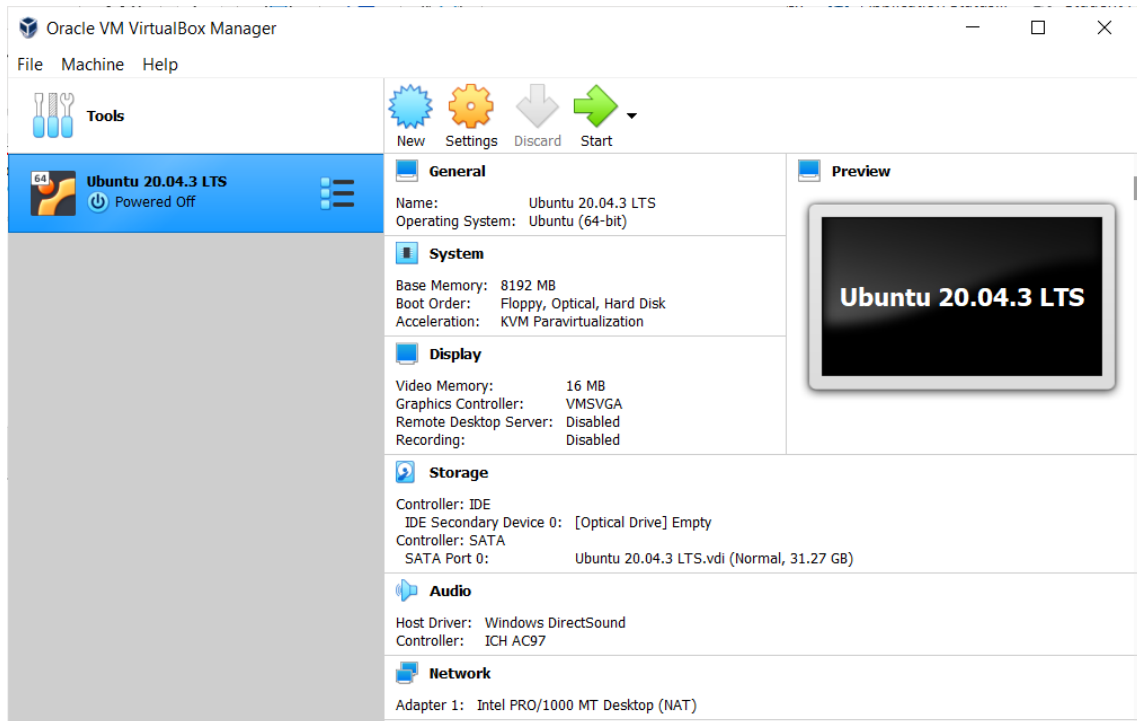
15. Select a "Dynamically Allocated" option to mount more space at a later stage



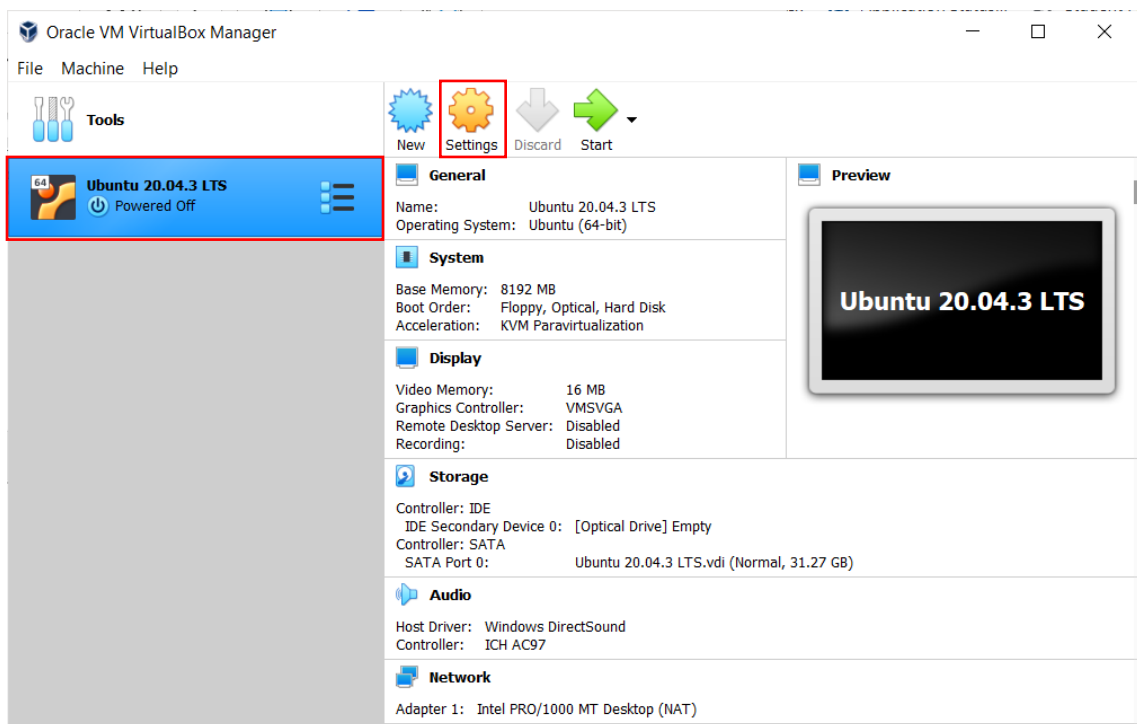
16. Select the path you want to store and allocate the size based on your requirements. Ubuntu recommends at least 25GB of free storage for smooth running, hence, I'll choose around 51GB. Click on Create.



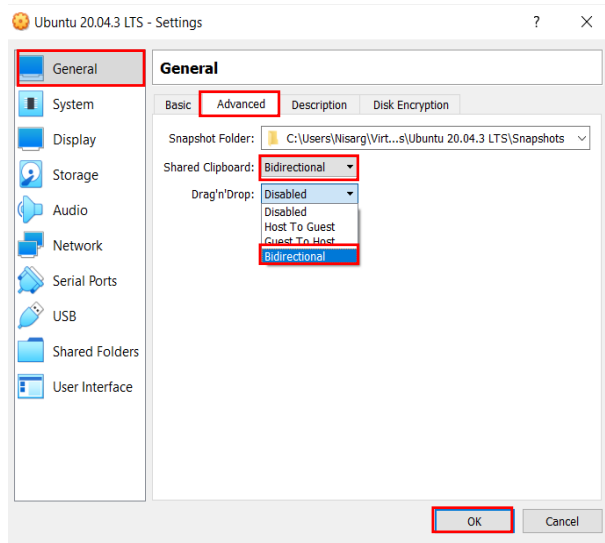
17. Virtual machine is now created. On the right side, you can check all the settings and system information about your machine.



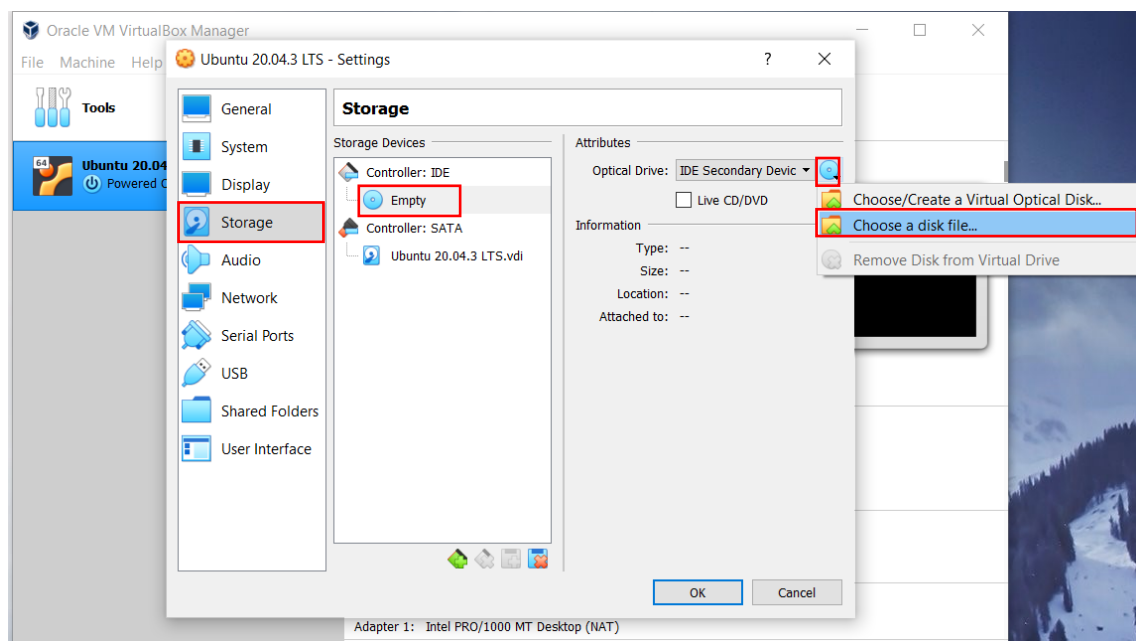
18. To configure advance settings so, select the virtual machine and choose settings on the right side of virtual machine



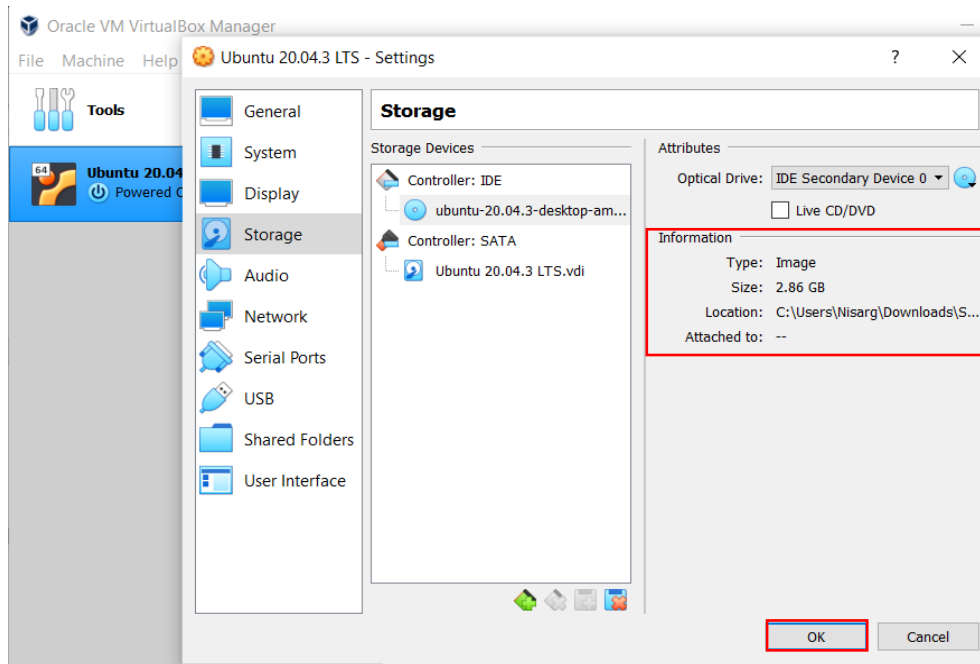
19. In the General settings go to Advanced and select Bidirectional for Shared Clipboard and Drag's Drop function. Bidirectional option allows you to access file between host OS and Virtual machine OS. Then, press OK.



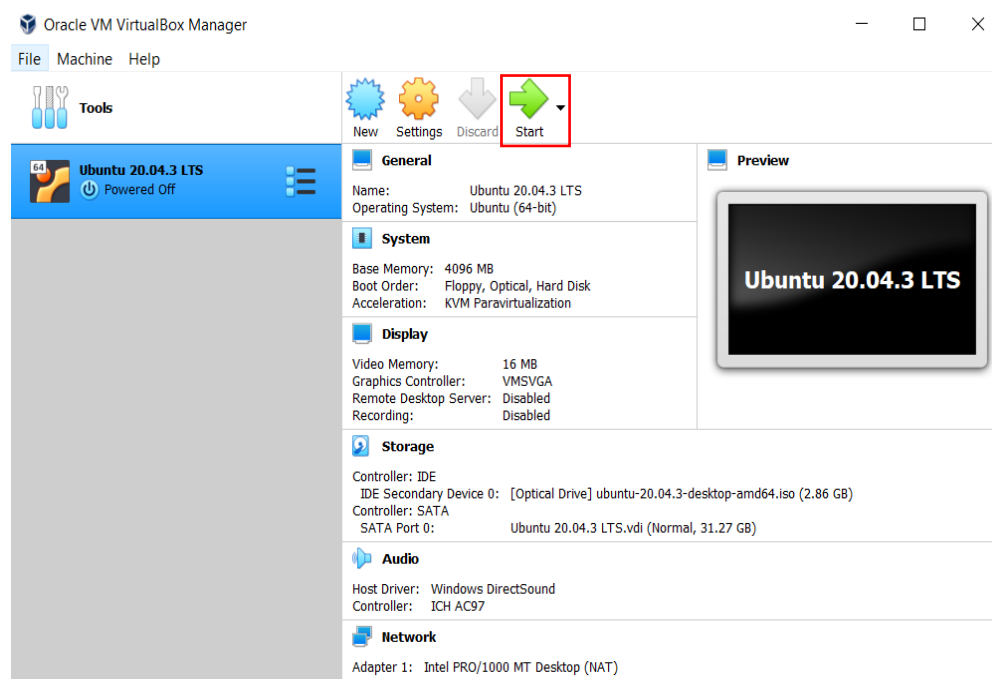
20. Load Ubuntu 20.04.3 ISO file Into Virtual Machine. Go to the storage section and then click on the disk icon to import the downloaded Ubuntu 20.04.3 image. The moment you click on the “choose a disk file”, a file dialog will open. Select the Ubuntu ISO from the dialog and load it into your virtual machine. Click OK to save everything and we are now ready to start the Ubuntu installation.

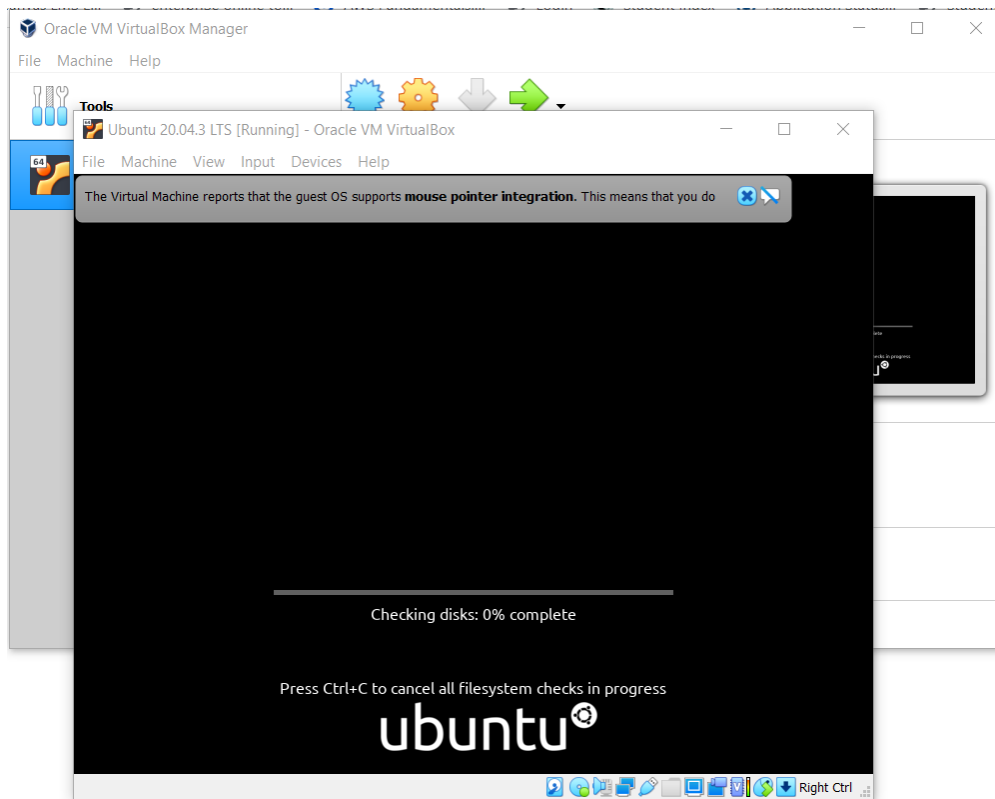


21. Installing Ubuntu in Virtual Machine (VM). We've now reached the final stage. make sure it's displaying the ISO file you've downloaded in step 9.

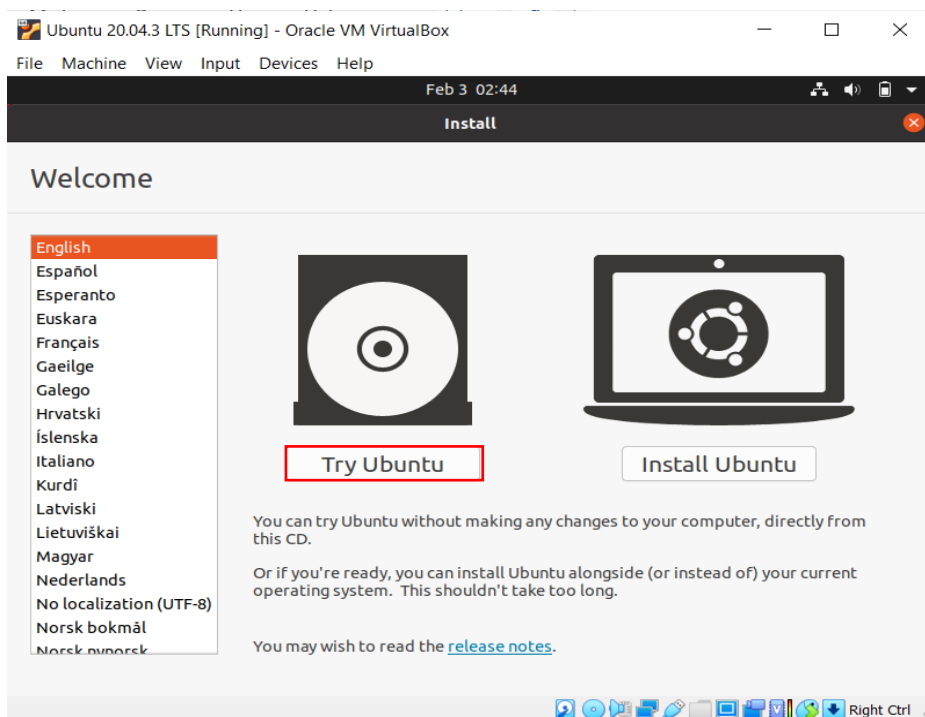


22. Now click on the start button and you'll notice a black and white screen with an animated rolling wheel and Ubuntu logo at the bottom. It means your Ubuntu installer is about to start.

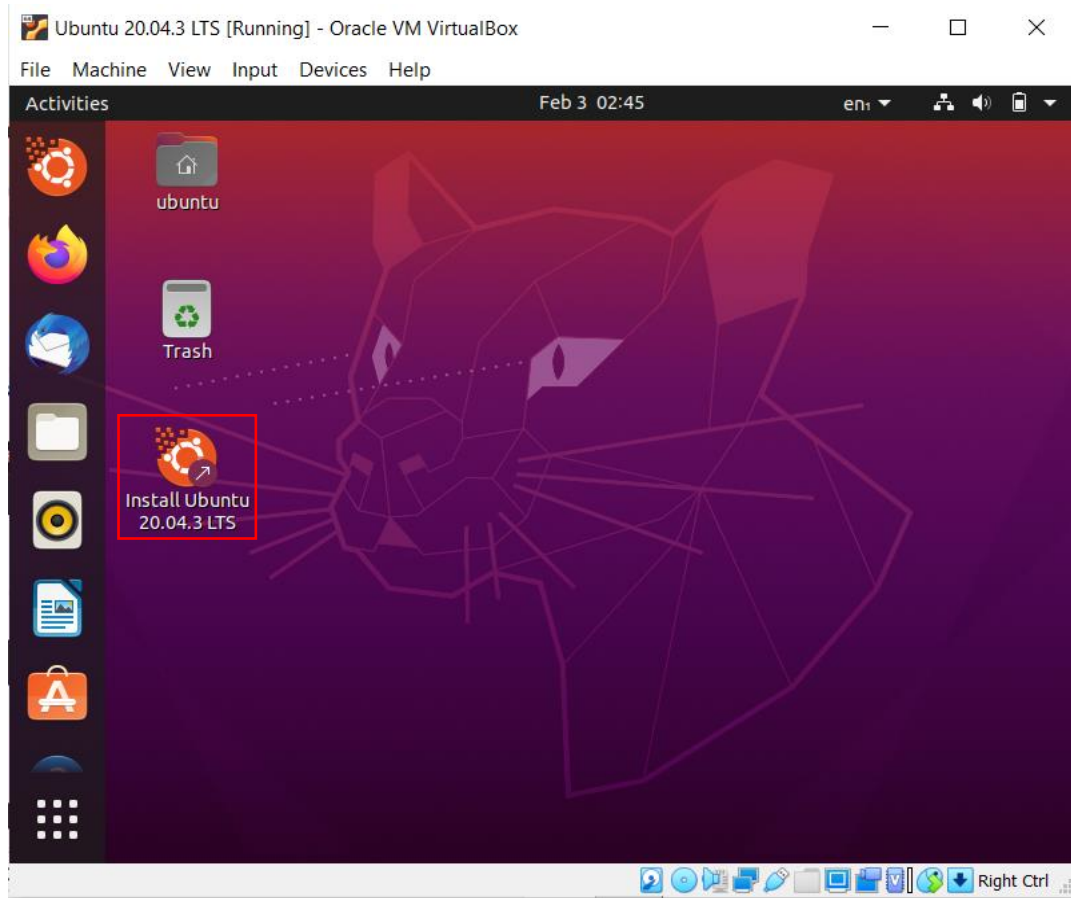




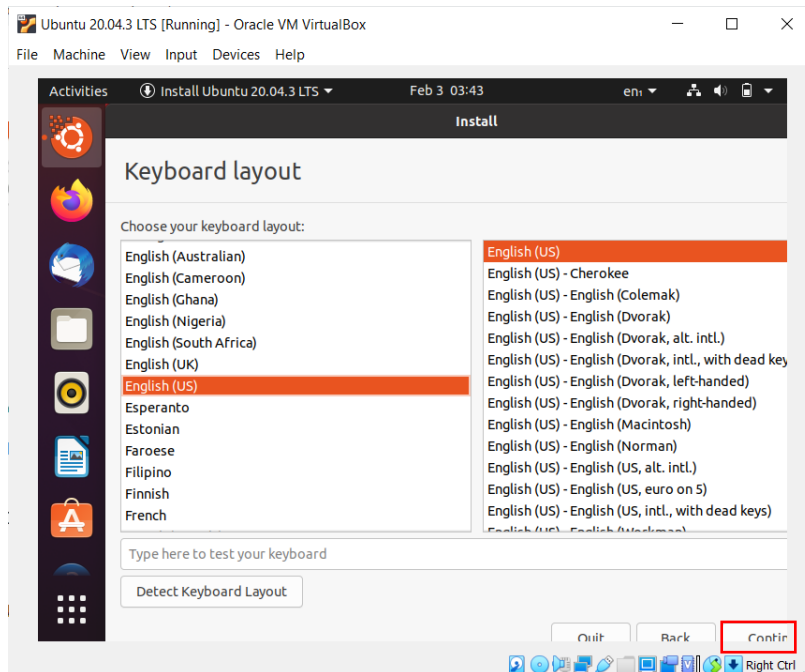
23. After a few seconds or a minute, the Ubuntu installer will display two options to proceed further.



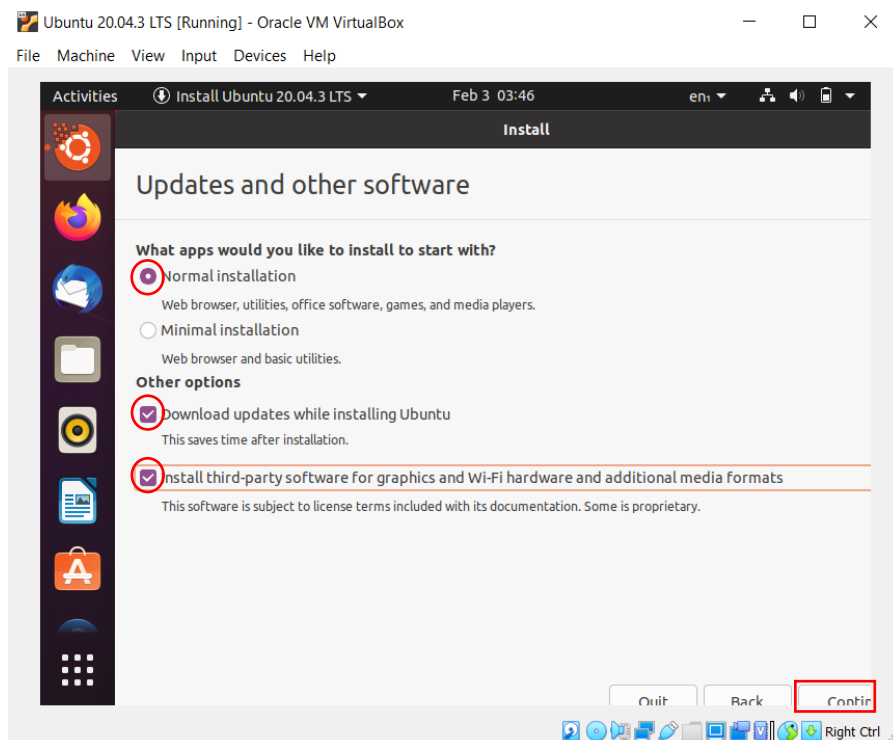
24. “Try Ubuntu” leads directly to the desktop and gives a sneak-peak of the operating system. You can choose this option if you’re planning to install Ubuntu later but just want to test for temporary. However, Ubuntu offers a launcher icon named “Install Ubuntu 20.04 LTS” to initiate the installation from inside the Desktop.



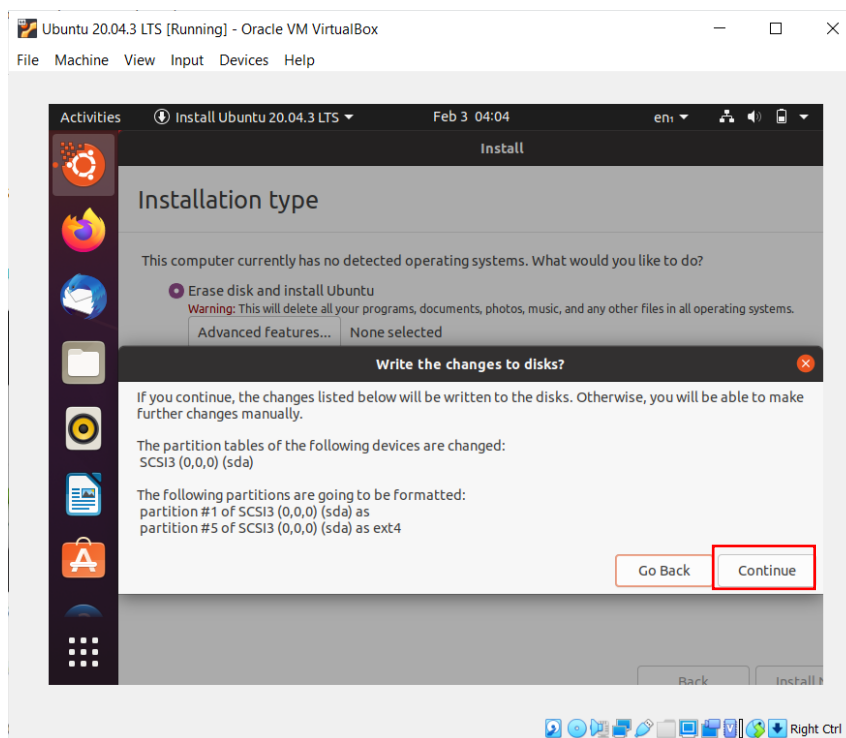
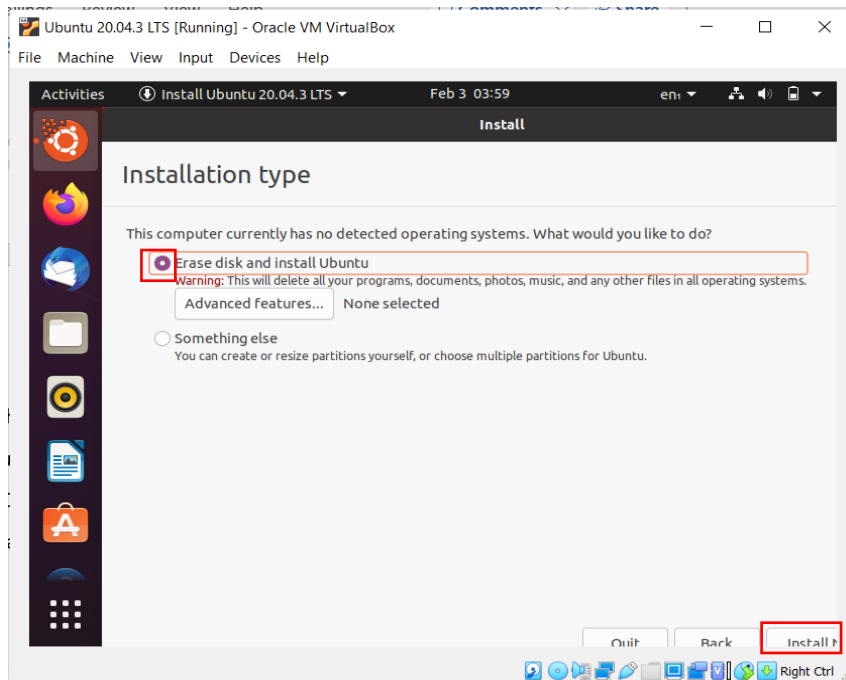
25. Choose “Install Ubuntu” and continue with the installation process. On the first screen, choose the keyboard layout of your native language and press Continue.



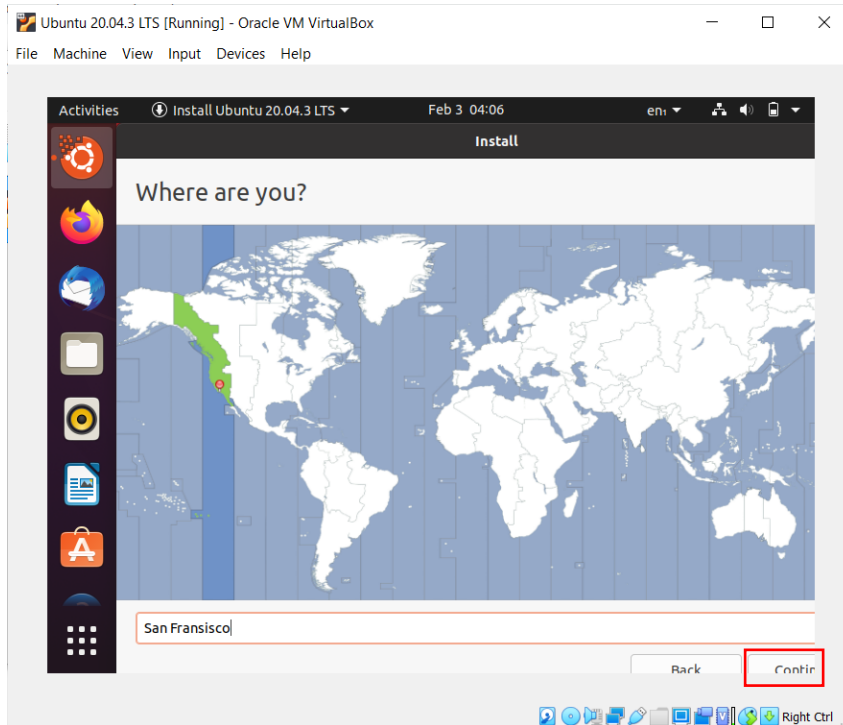
26. The next window allows you to select between the normal and minimal installation. In the Minimal installation, you only get selected applications while normal installation includes almost all software and tools. And if you're connected to the internet, don't forget to check the other options. It will ease your lot of work by installing all the required drivers during installation.



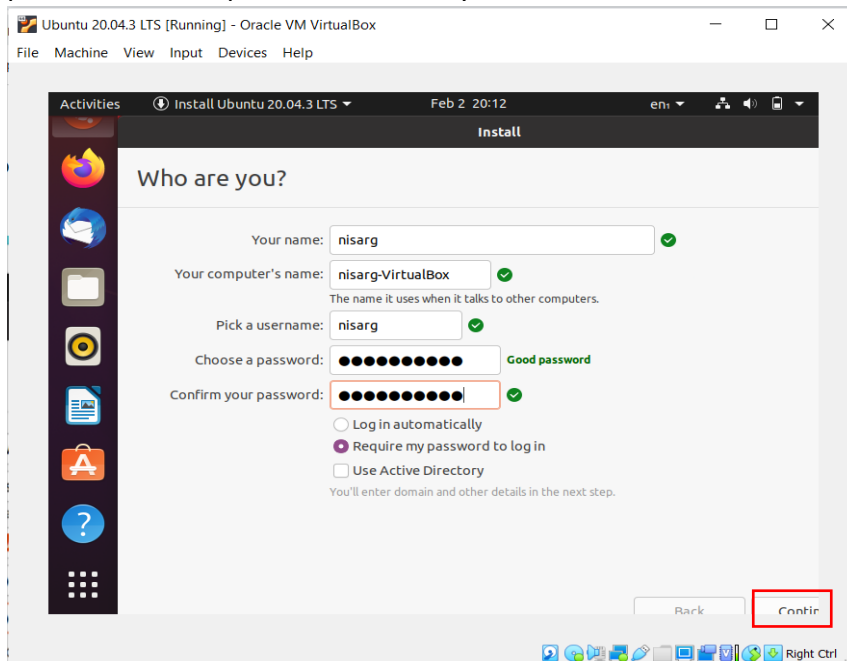
27. Here comes the main part of choosing the installation type that decides the Ubuntu disk partition. “Erase disk and install Ubuntu” is an easy road to follow. Basically, it automatically creates a partition table. Clicking on “Install Now” prompts the permission dialog to write changes on disks and create an automatic partition table.



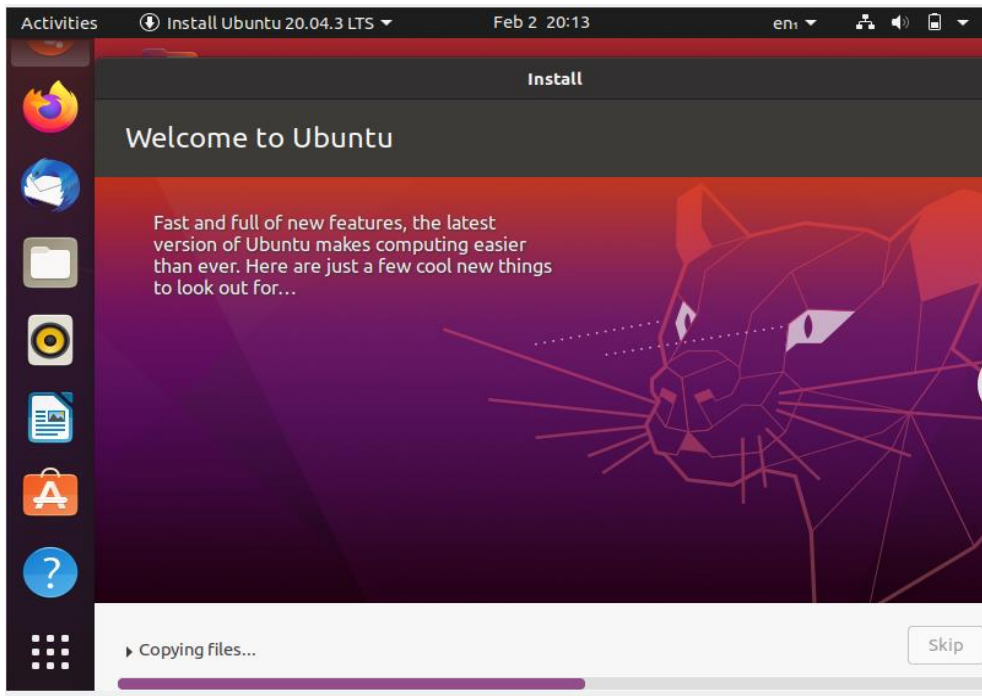
28. This step involves setting up a virtual machine with basic configurations. If you're connected to the internet, the Ubuntu installer will automatically detect and set your location. You can change it either using a map or input field.



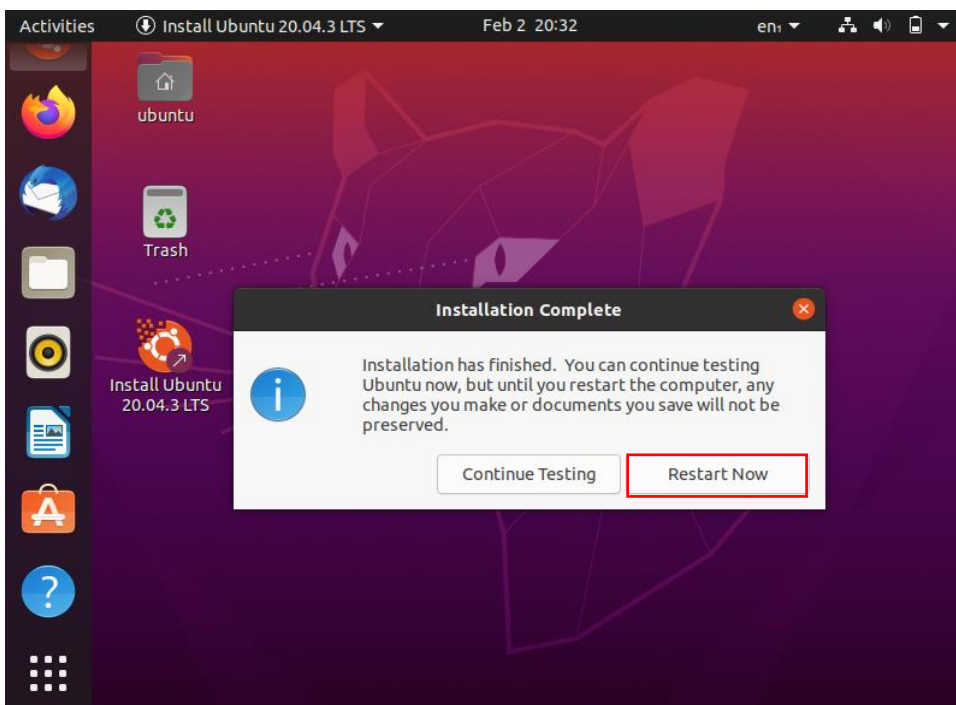
29. Set your username and password to login to the system. Make sure you choose a strong password with alphanumeric and symbols.



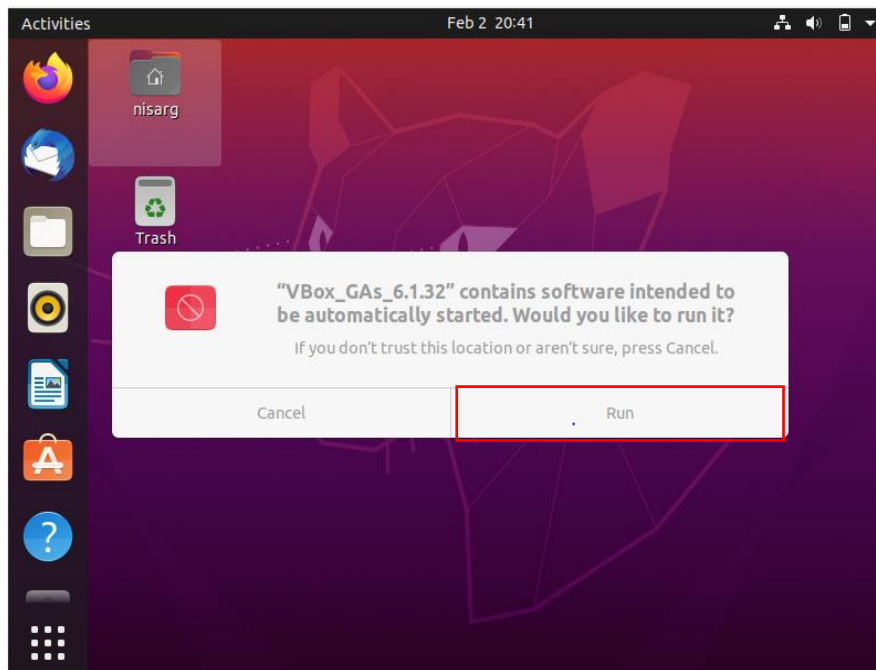
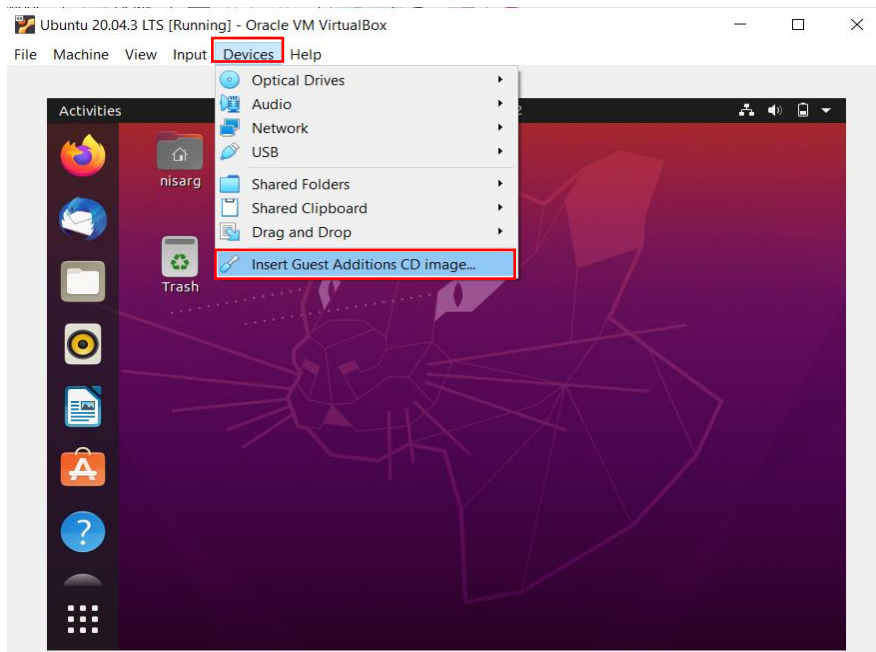
30. Click on Continue and the installation will start. Till then you can enjoy the slideshow going through all the software tools and applications.



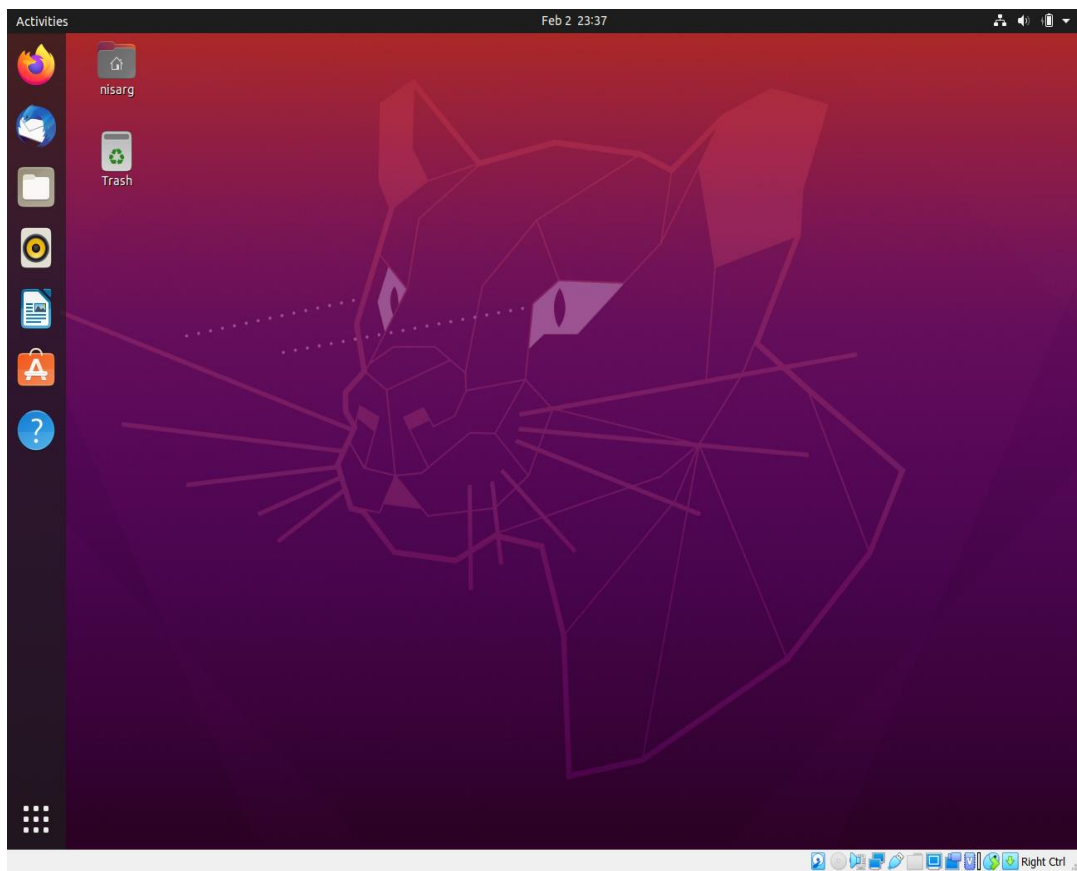
31. If your installation is complete with no intermediate obstacle, a success notification will pop up. You can now restart and login to your Ubuntu virtual machine.



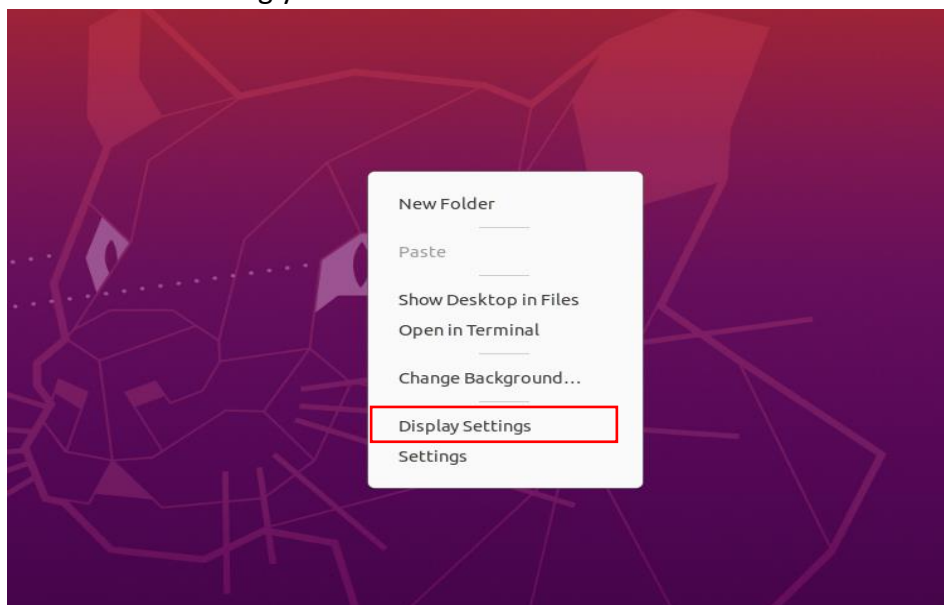
32. Setting Up Full Screen for Ubuntu Virtual Machine In VirtualBox. Install Guest Addition software comprised of device drivers and system apps. It basically helps the Ubuntu virtual machine to integrate closer with the host operating system and configure various settings. To install, go to the Ubuntu virtual machine menu bar > devices > insert guest additions CD. Click on run to give permission to install VirtualBox Guest Addition software.

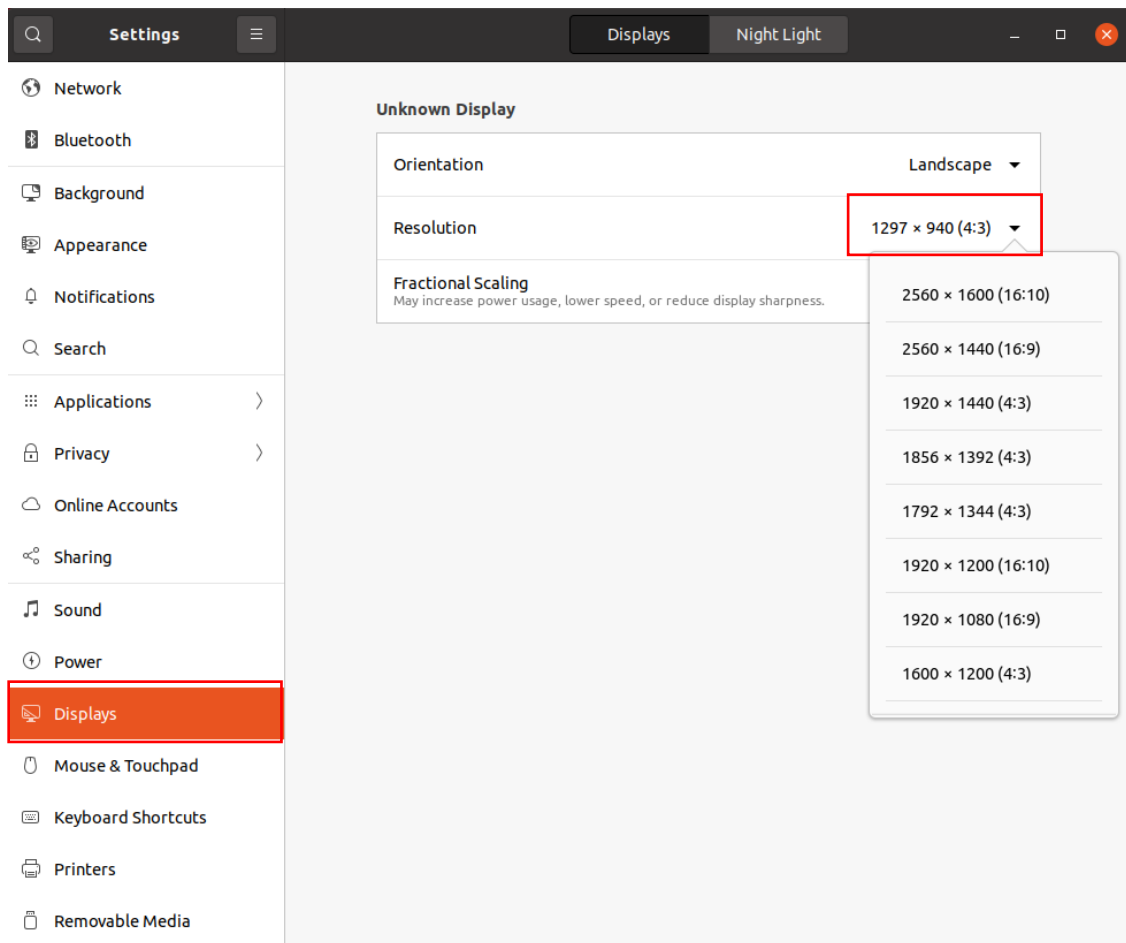


33. This helps to mount the Guest Additions ISO file inside the virtual machine. You can now go to the menu bar > view > full screen and your desktop will switch to a large screen.



34. For further screen configuration, you can also go to Ubuntu settings and change the resolution accordingly.





Enjoy Ubuntu 20.04 LTS!!!