

Varun Khadayate

A016

B. Tech (CsBs) TY

## Aim

To install Windows 10/Kali Linux on VirtualBox and to make Windows 10/Kali Linux and Ubuntu communicate with each other

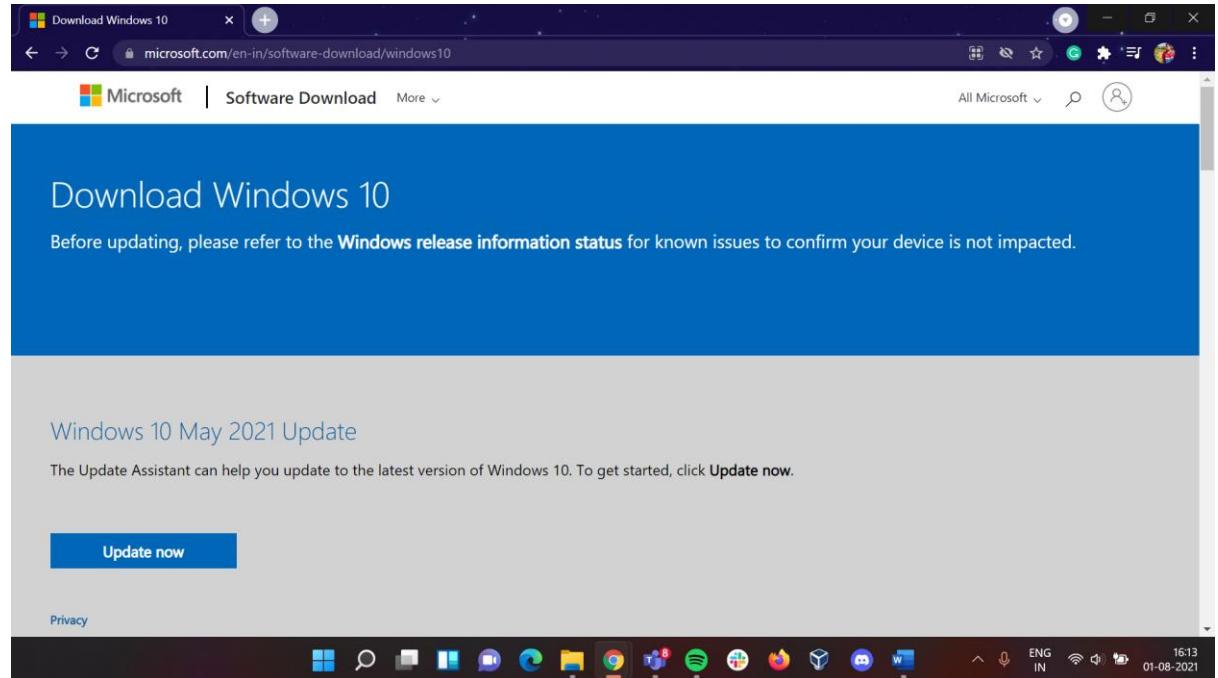
## Software Used

Windows 11, Chrome, Oracle VM, Ubuntu, Windows10.

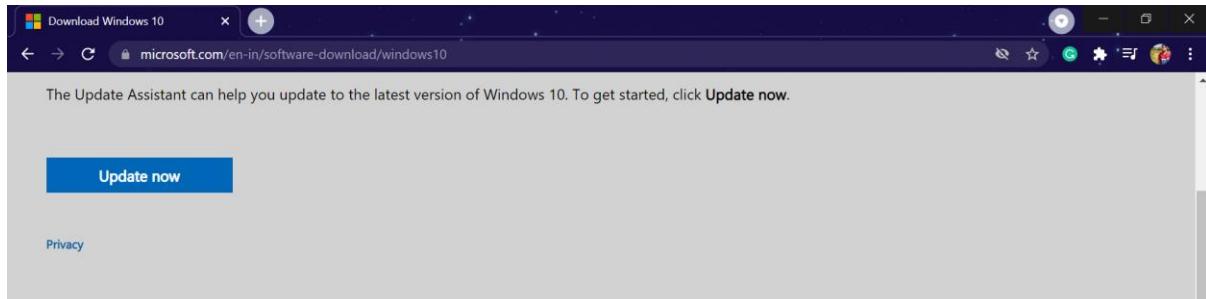
## Steps to install Windows 10 in Oracle Virtual Box/Machine

Visit Microsoft windows 10 Software Download official Website Link:

<https://www.microsoft.com/en-in/software-download/windows10>

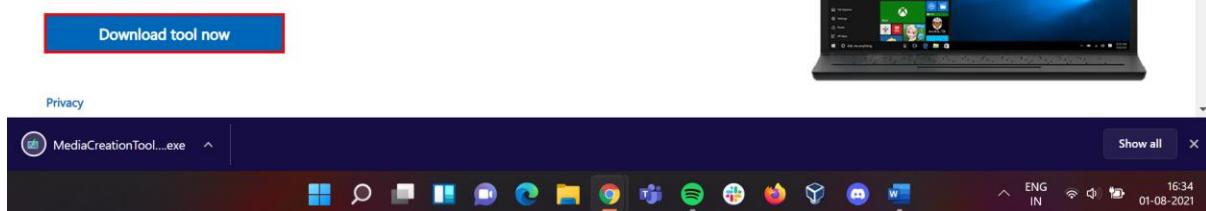


Here we will be downloading the Windows 10 Installation Media to download that click on **Download tool now** button below that and the download will start.



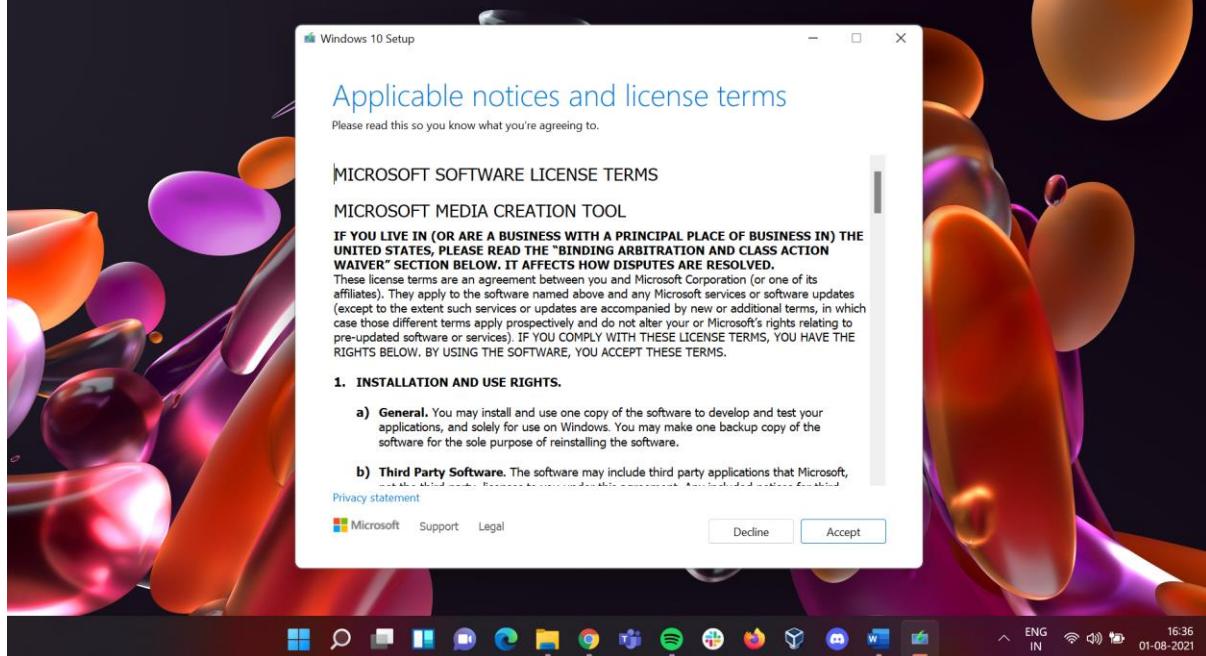
### Create Windows 10 installation media

To get started, you will first need to have a licence to install Windows 10. You can then download and run the media creation tool. For more information on how to use the tool, see the instructions below.

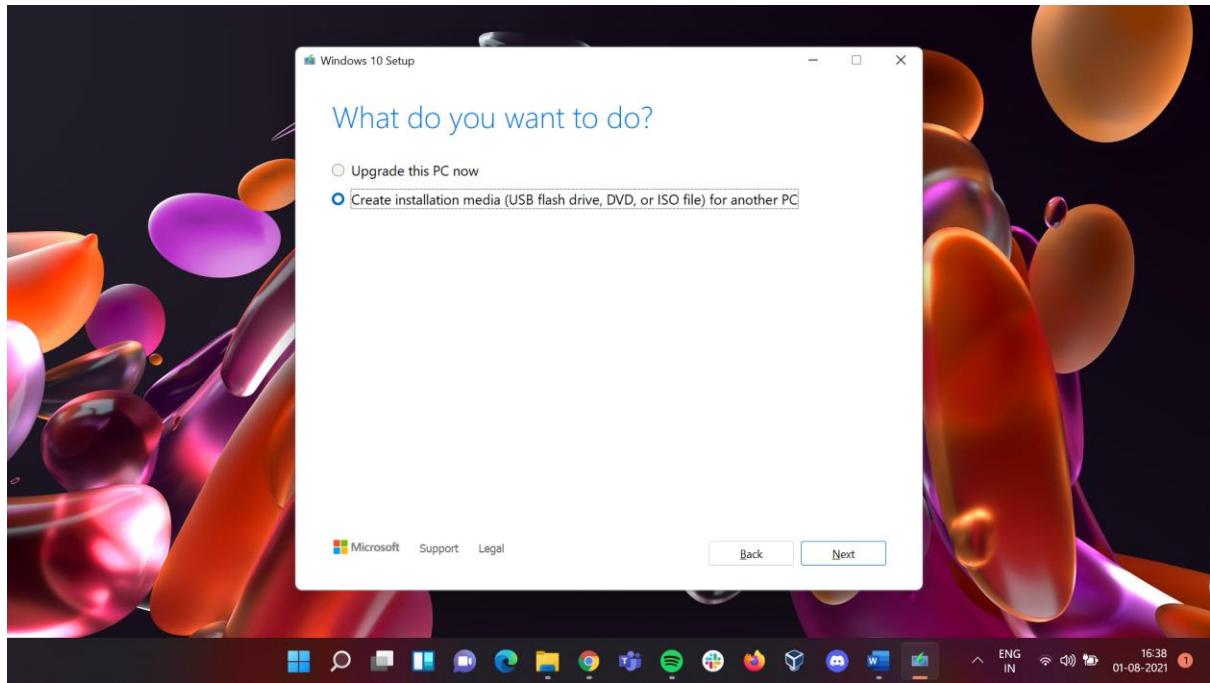


Once the tool named as “MediaCreationTool21H1” is downloaded open that and follow the below steps.

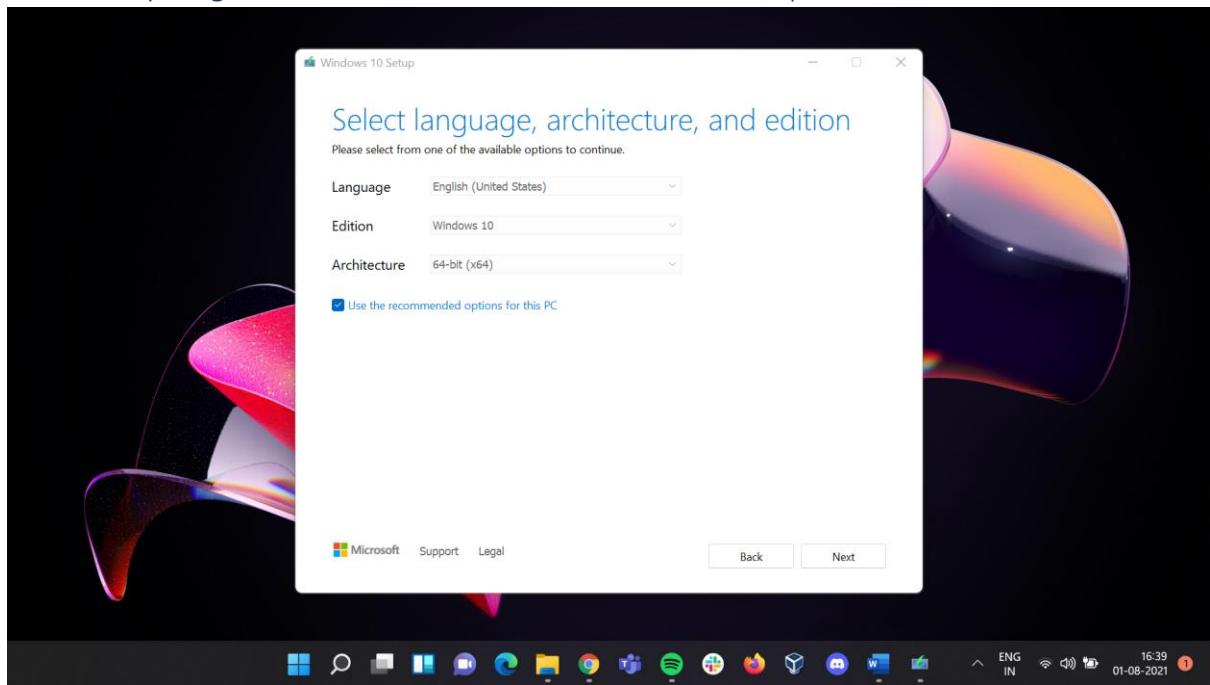
Click on **Accept** button to proceed further



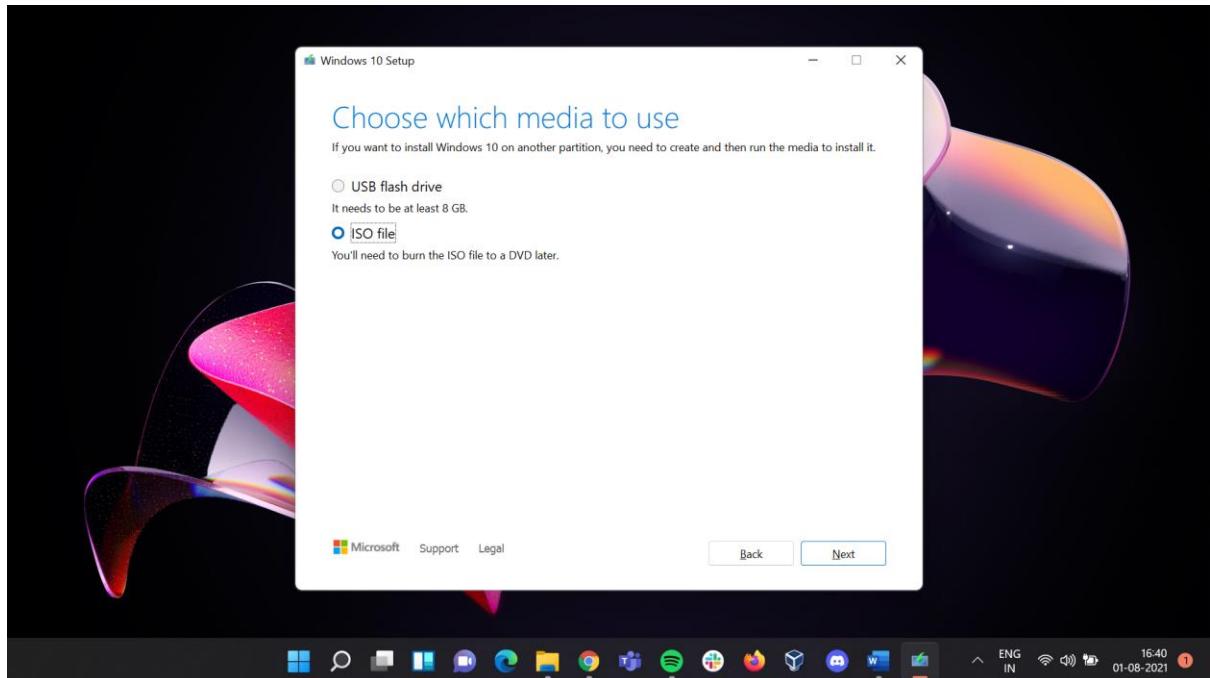
Click on **Create installation media (USB flash drive, DVD, or ISO file) for another PC** and then click on **Next** Button to proceed further.



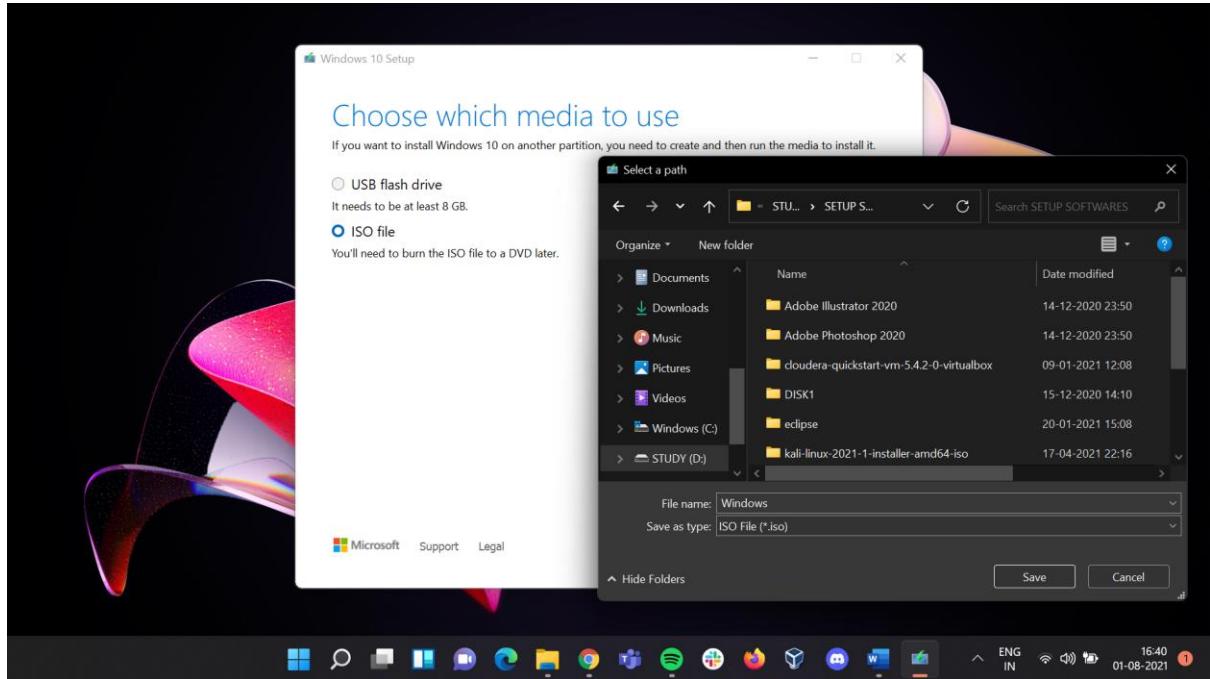
Leave everything as default and then click on **Next** Button to proceed further.



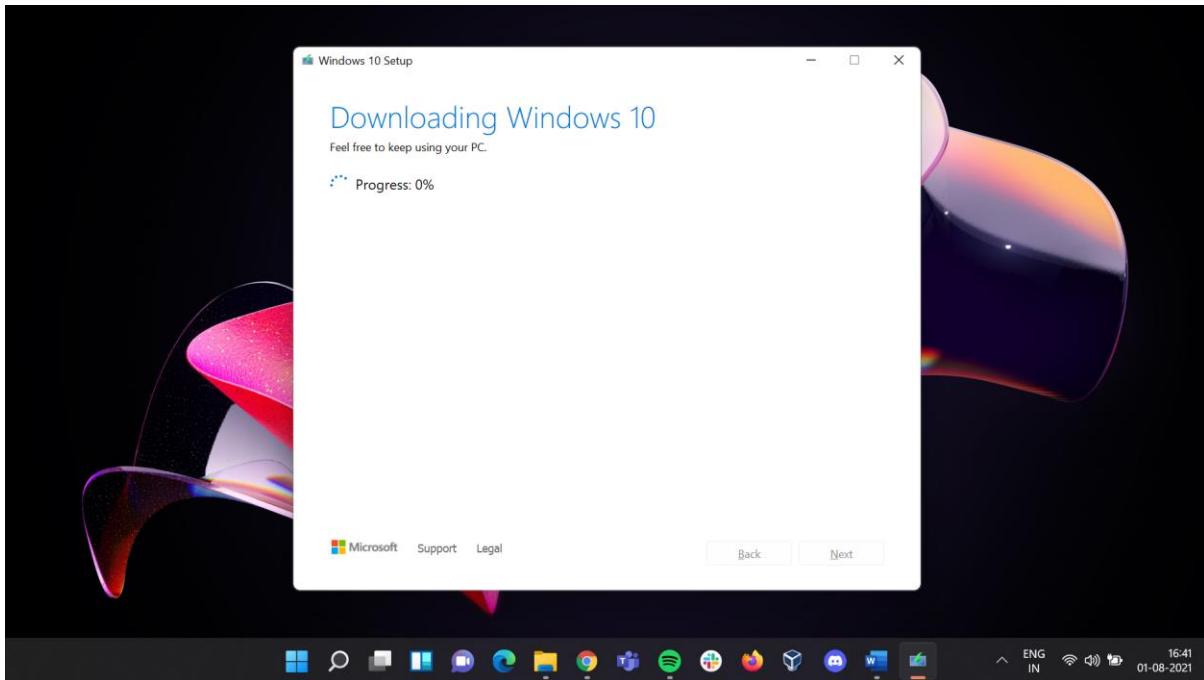
Click on **ISO File** and then click on **Next** Button to proceed further.



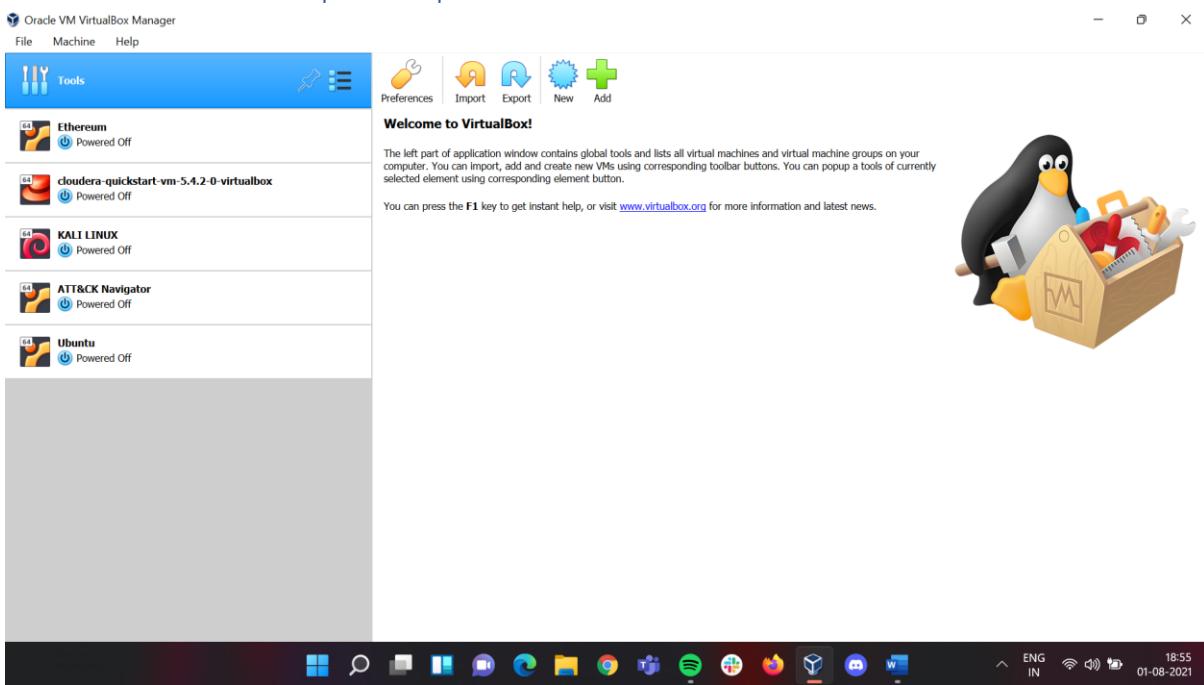
Save it to a preferred location in my case its “D:\SETUP SOFTWARES”



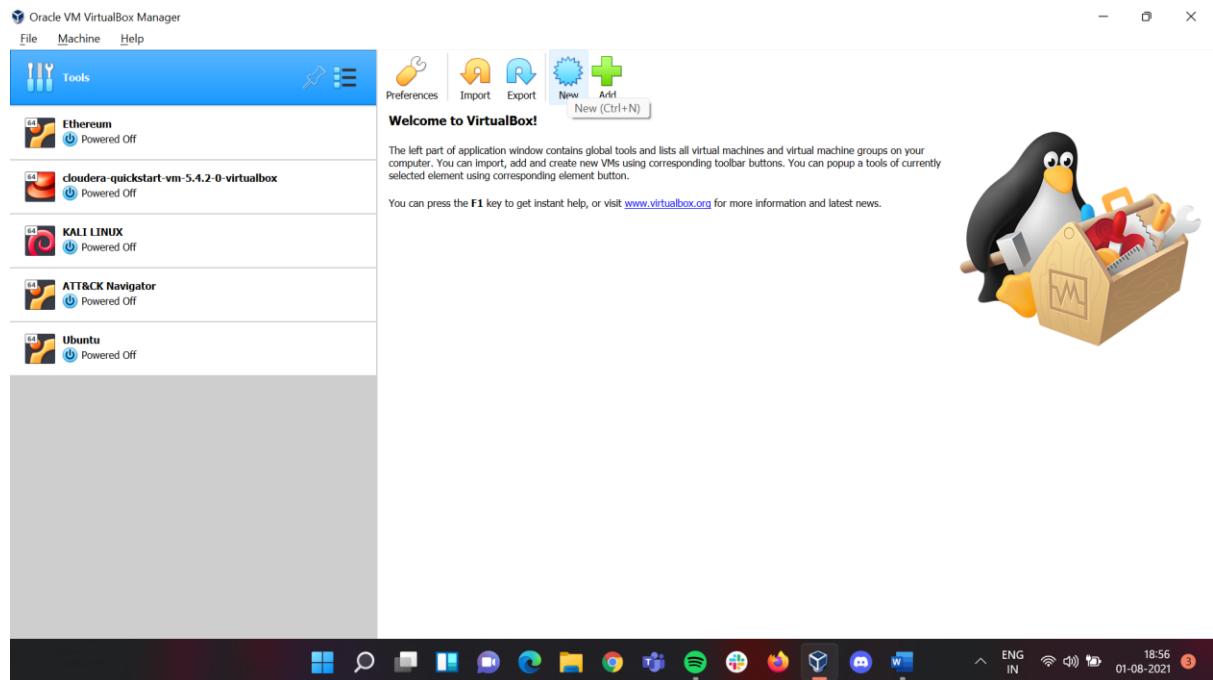
The downloading process will start and will take 2-3 hours to download it.



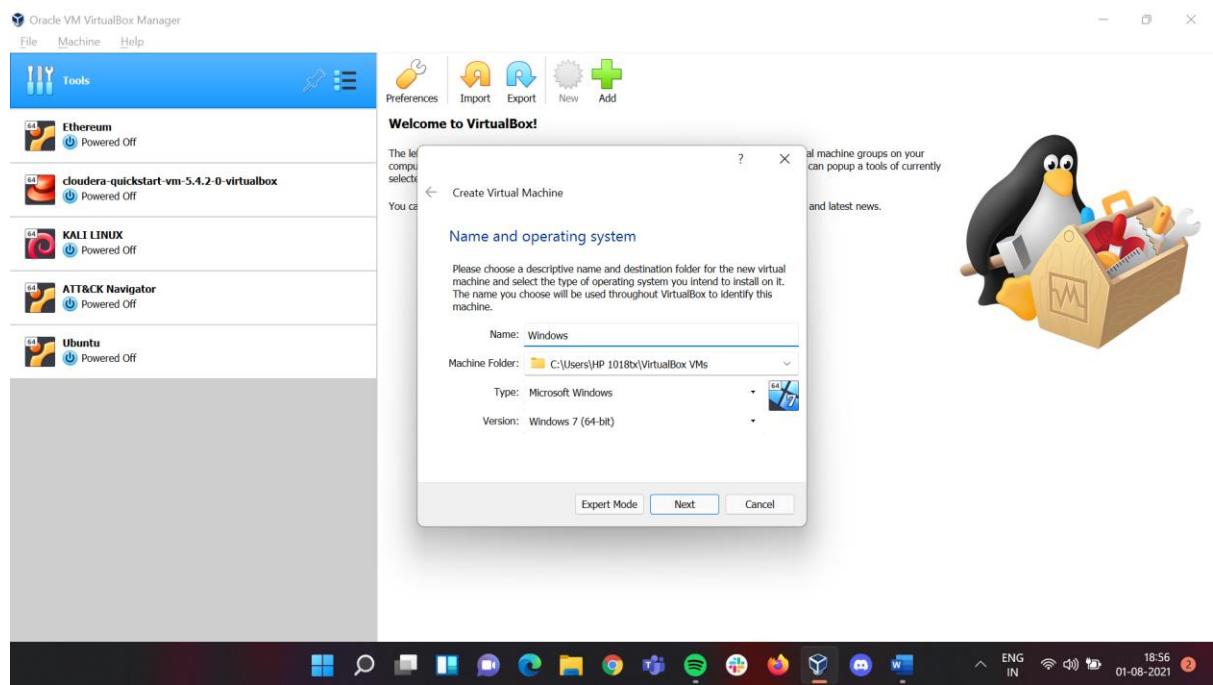
Once download is completed open the Oracle VM



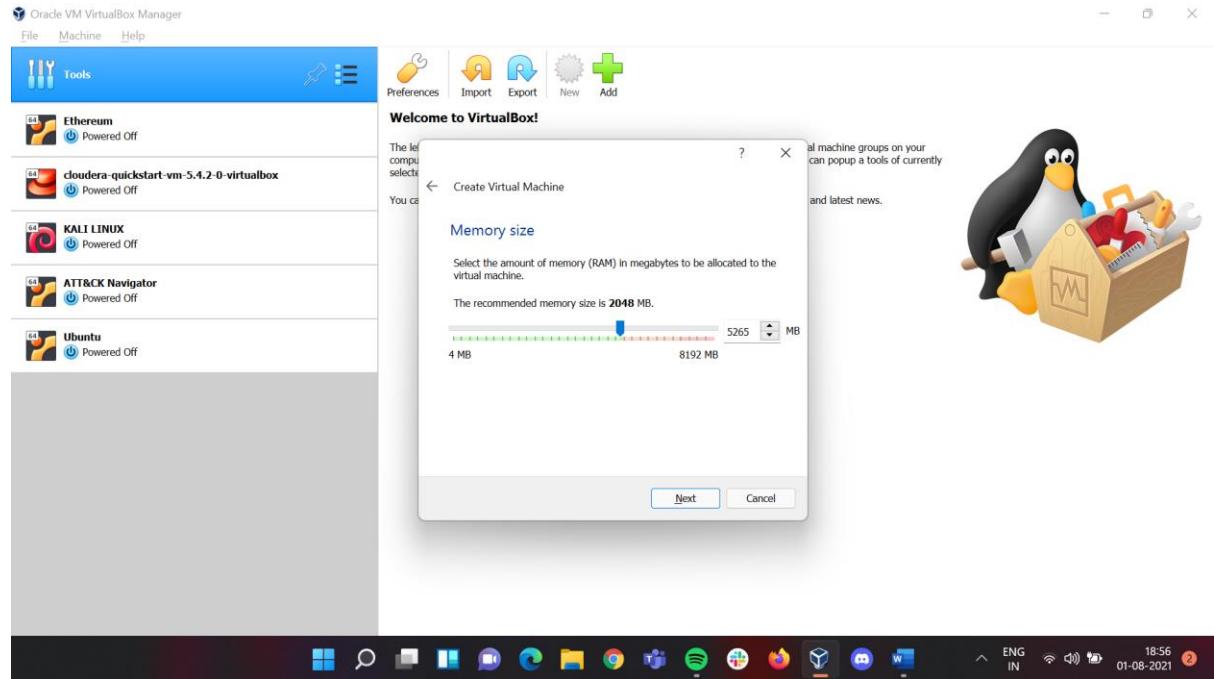
Under Tools click on New



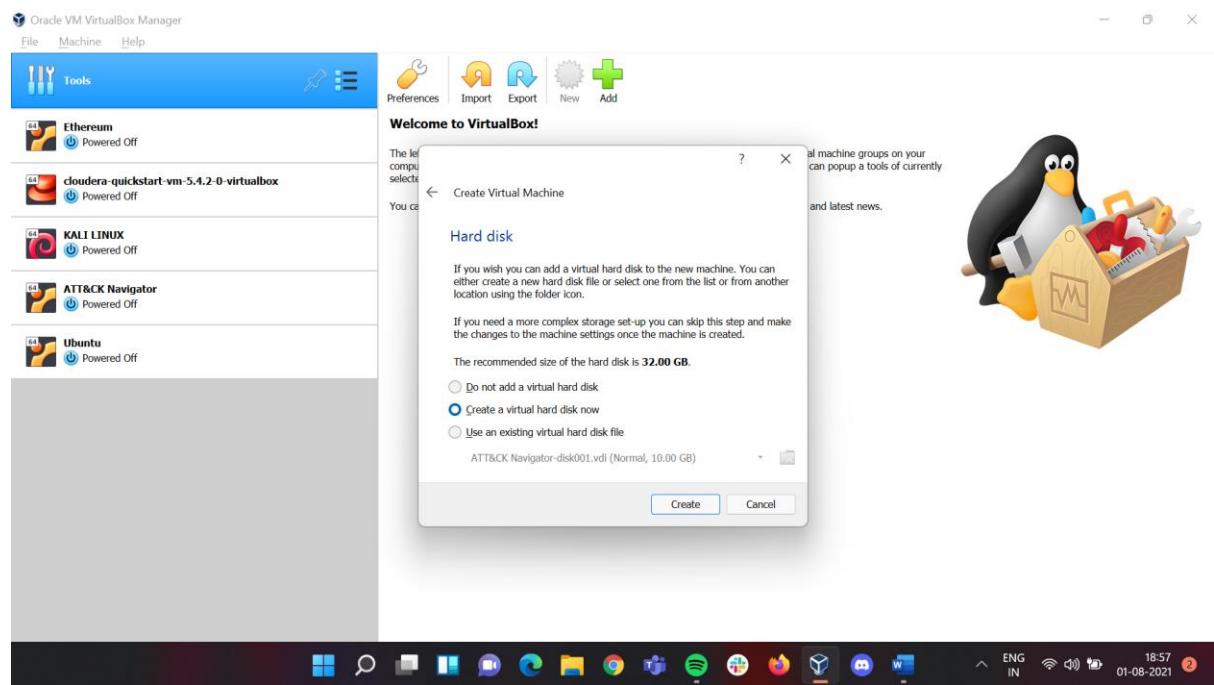
In Name and Operating System Sub-window under Name, name it as "Windows". And click on Next.



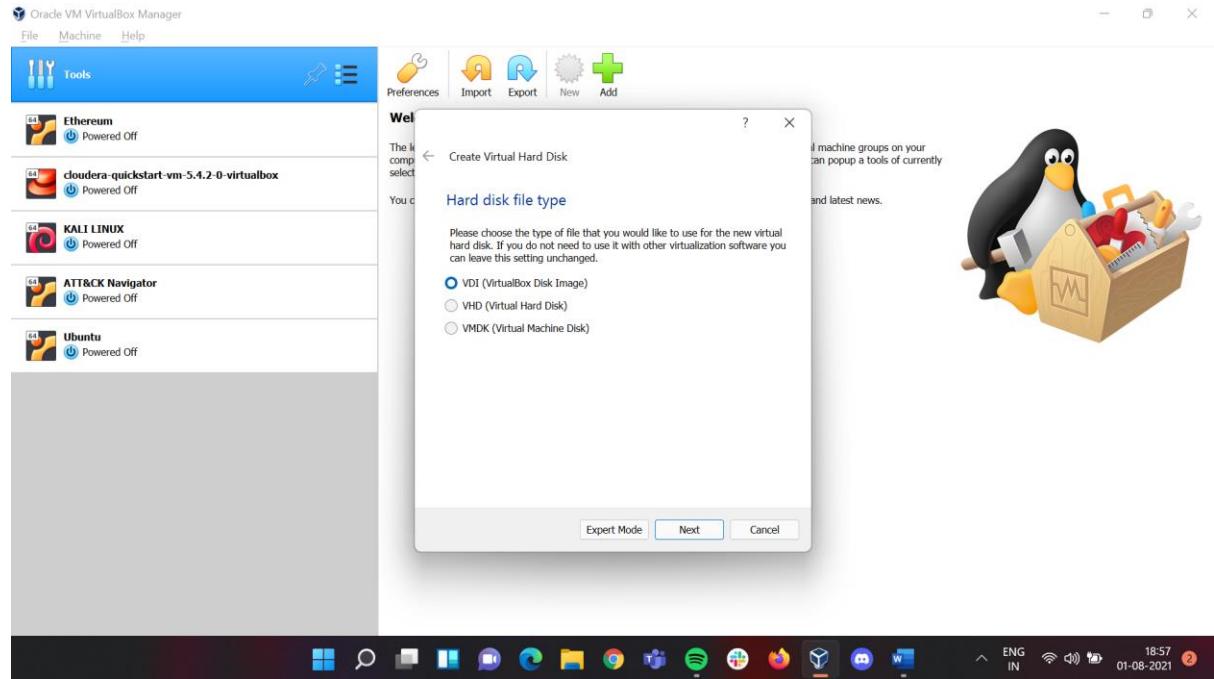
In **Memory Size** Sub-window set the memory size up to the **green bar** which in my case will be at **5265 MB**. After doing that click on **Next**.



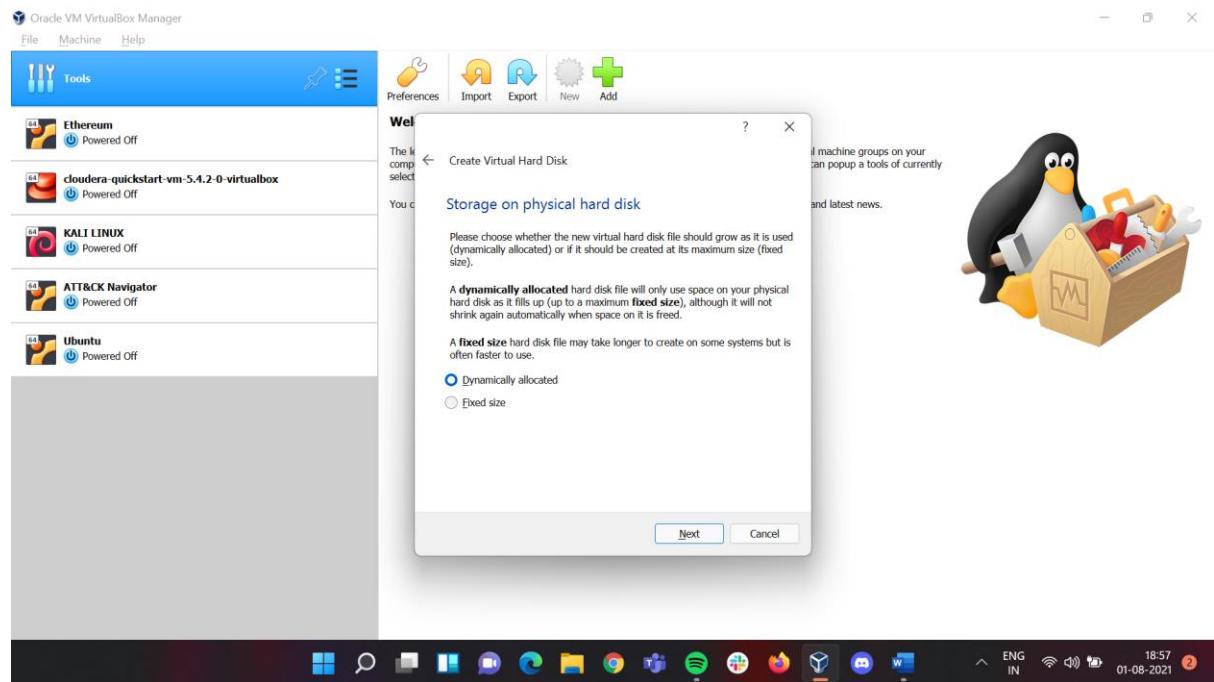
Under **Hard Disk** Sub-window leave it as default and click on **Create**.



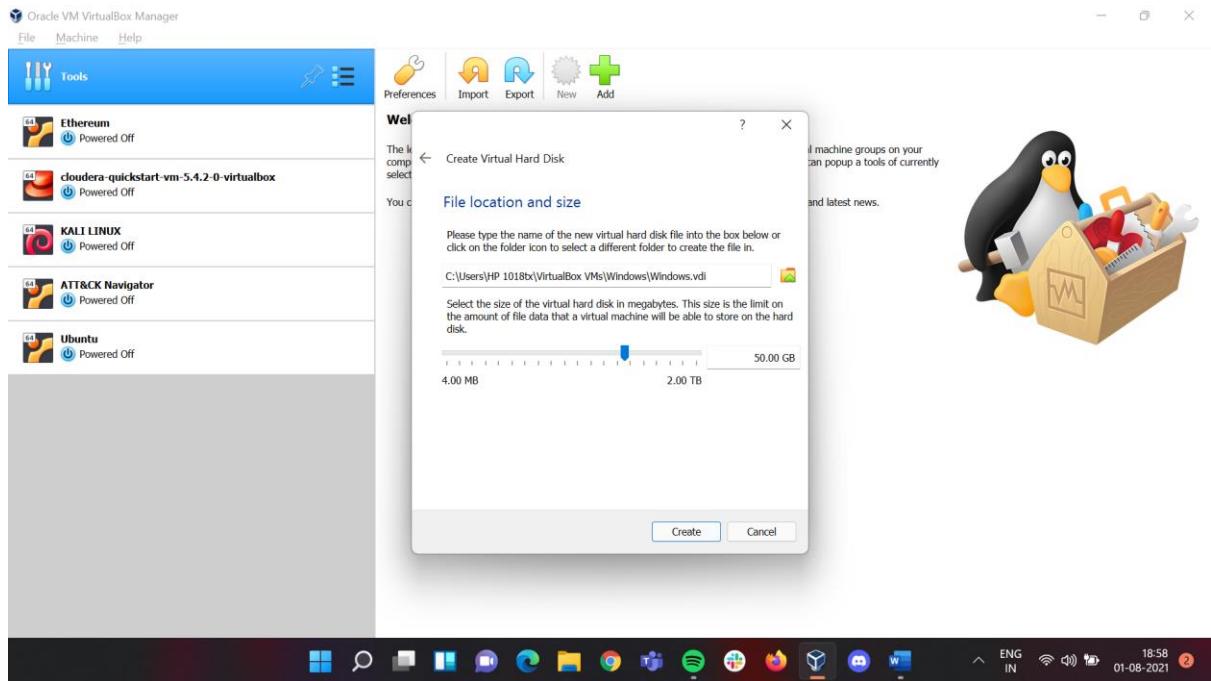
Under Hard Disk File Type Sub-window click on VDI (Virtual Disk Image). After that click on Next.



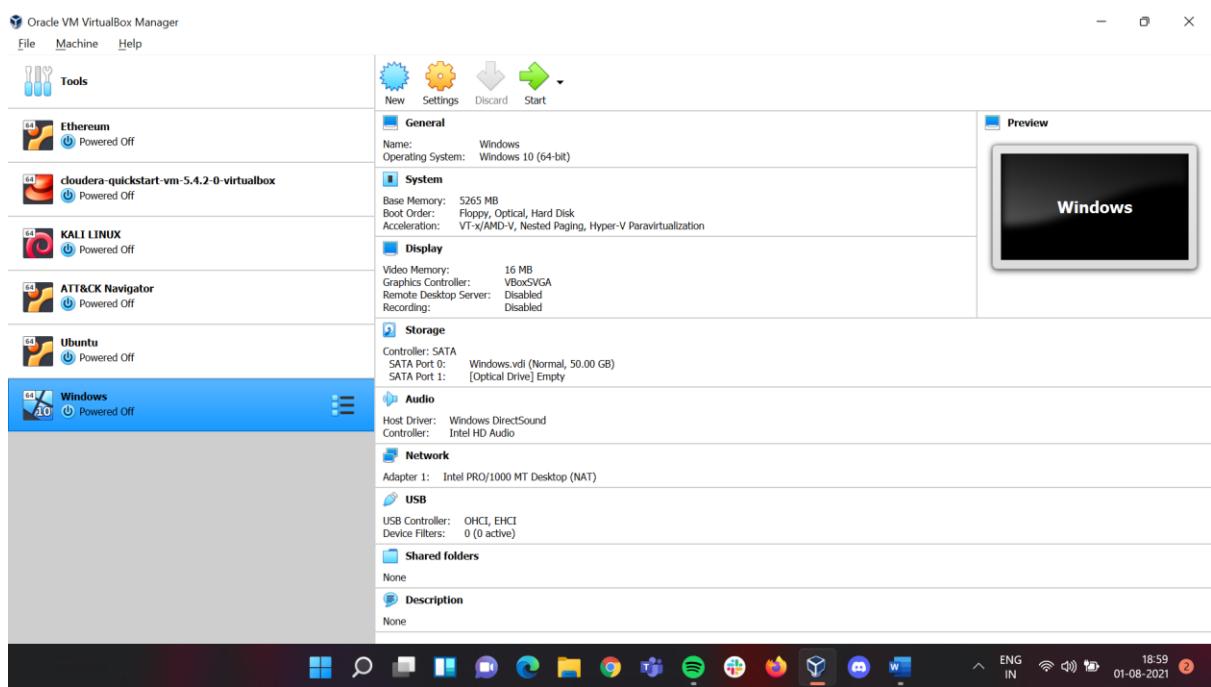
Under Storage on physical Hard Disk Sub-Window click on Dynamically Allocated. After that click on Next.



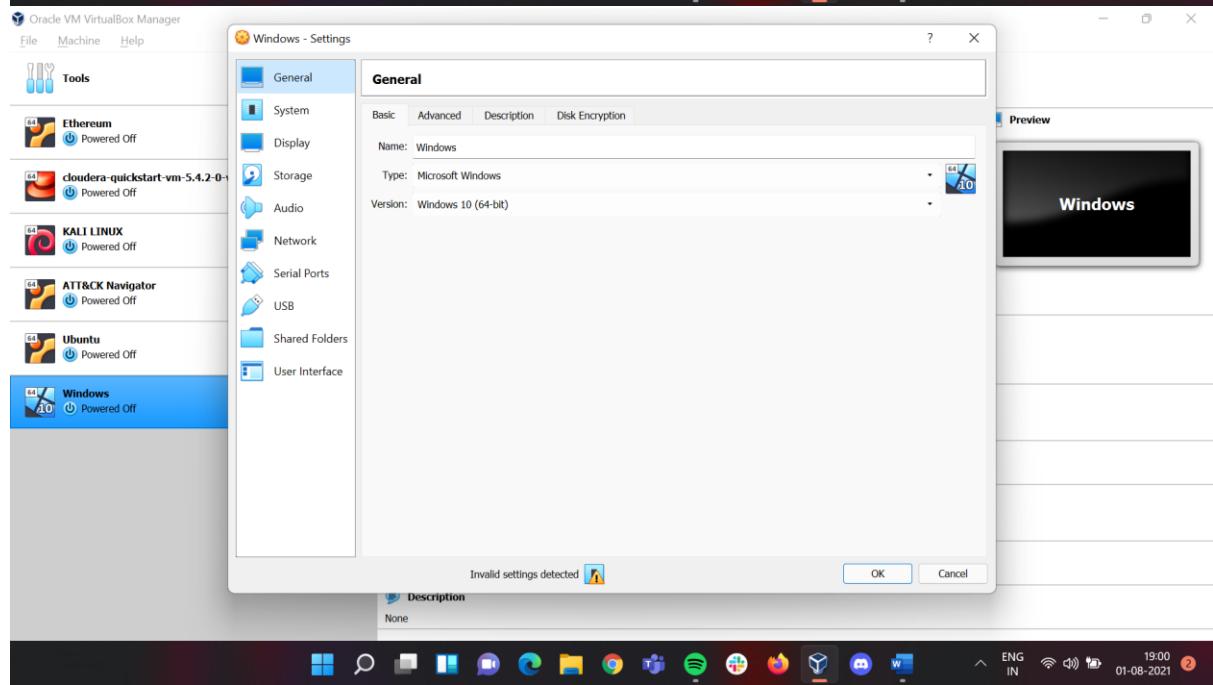
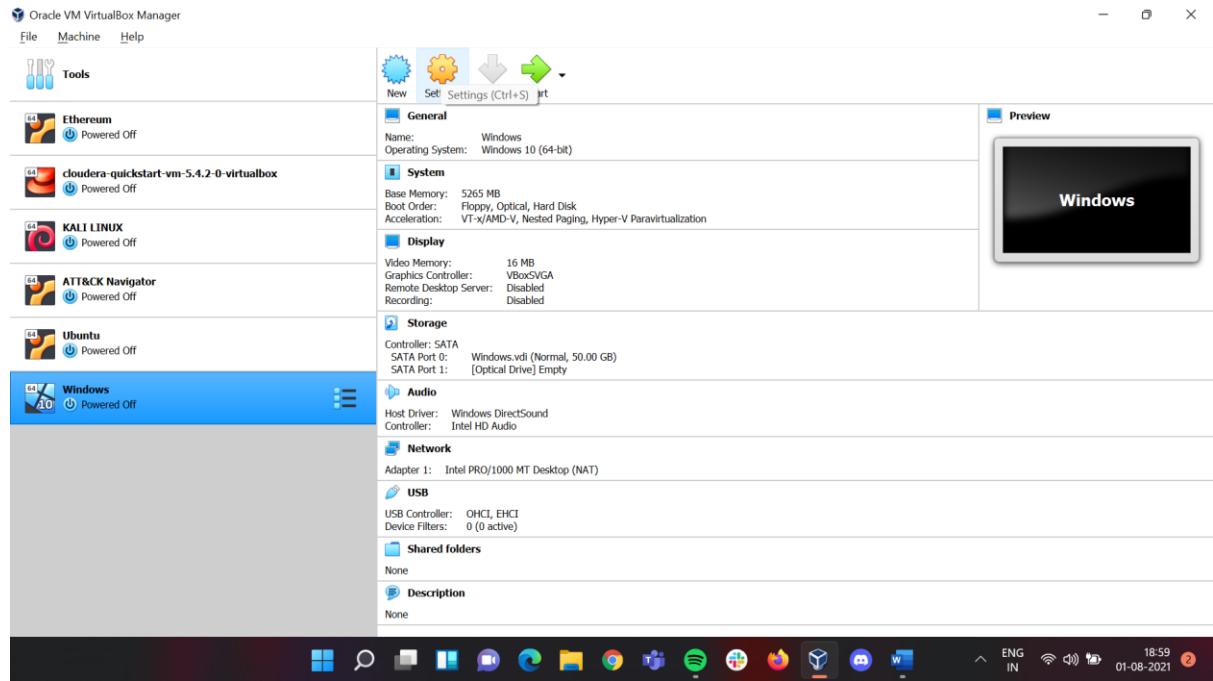
We are now at the last step. In the **File location and Size** Sub-Window change the memory size to **50.00 GB**. After that click on **Create**.



Now Windows has been added to Oracle VM.

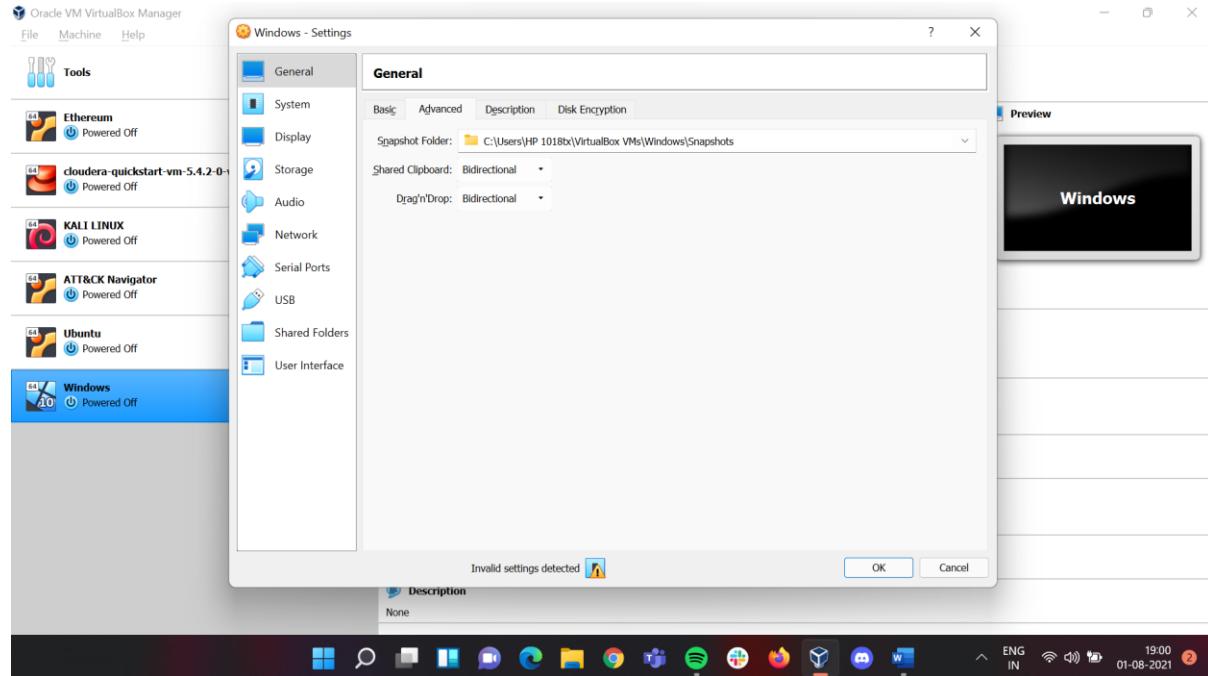


Here click on **Settings**

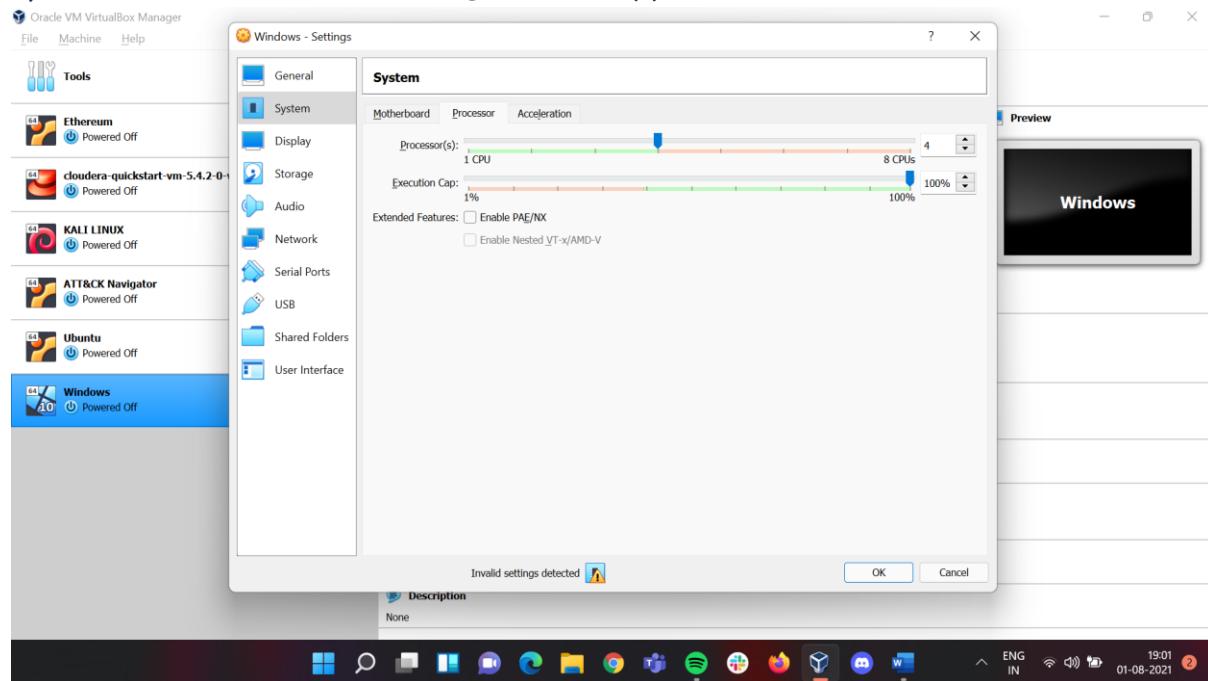


On the **Settings** Sub-window under

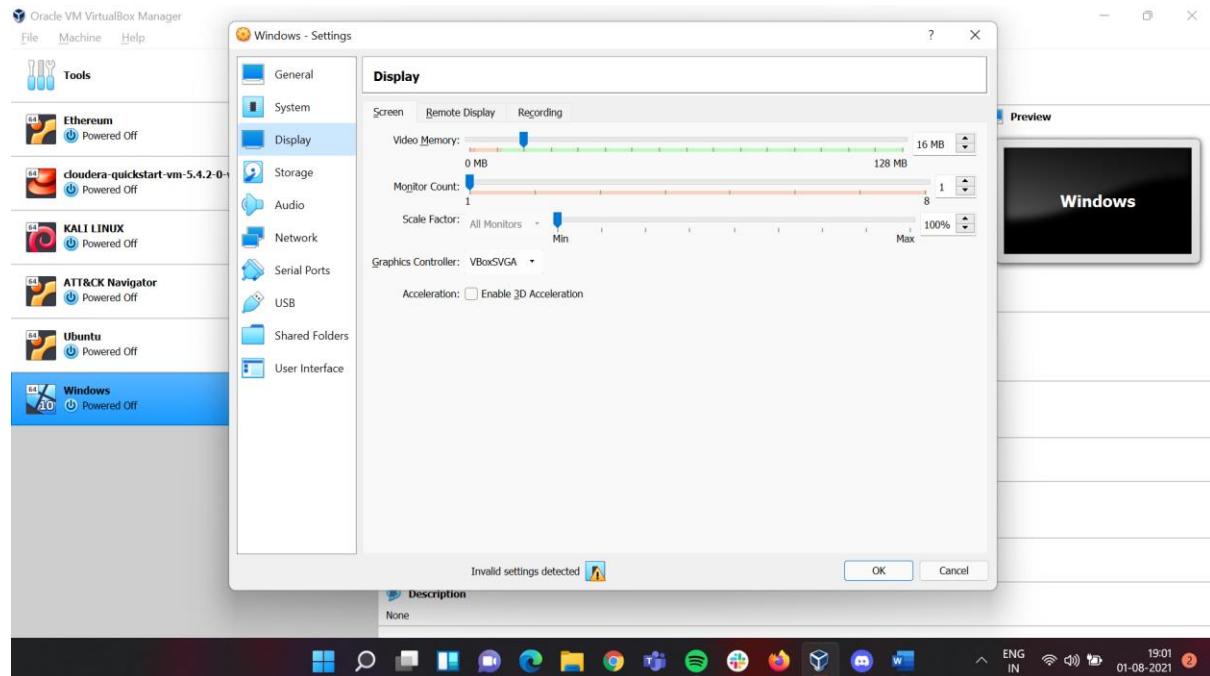
**General** click on **Advanced** and change **Shared Clipboard** and **Drag'n'Drop** from **Disabled** to **Bidirectional**.



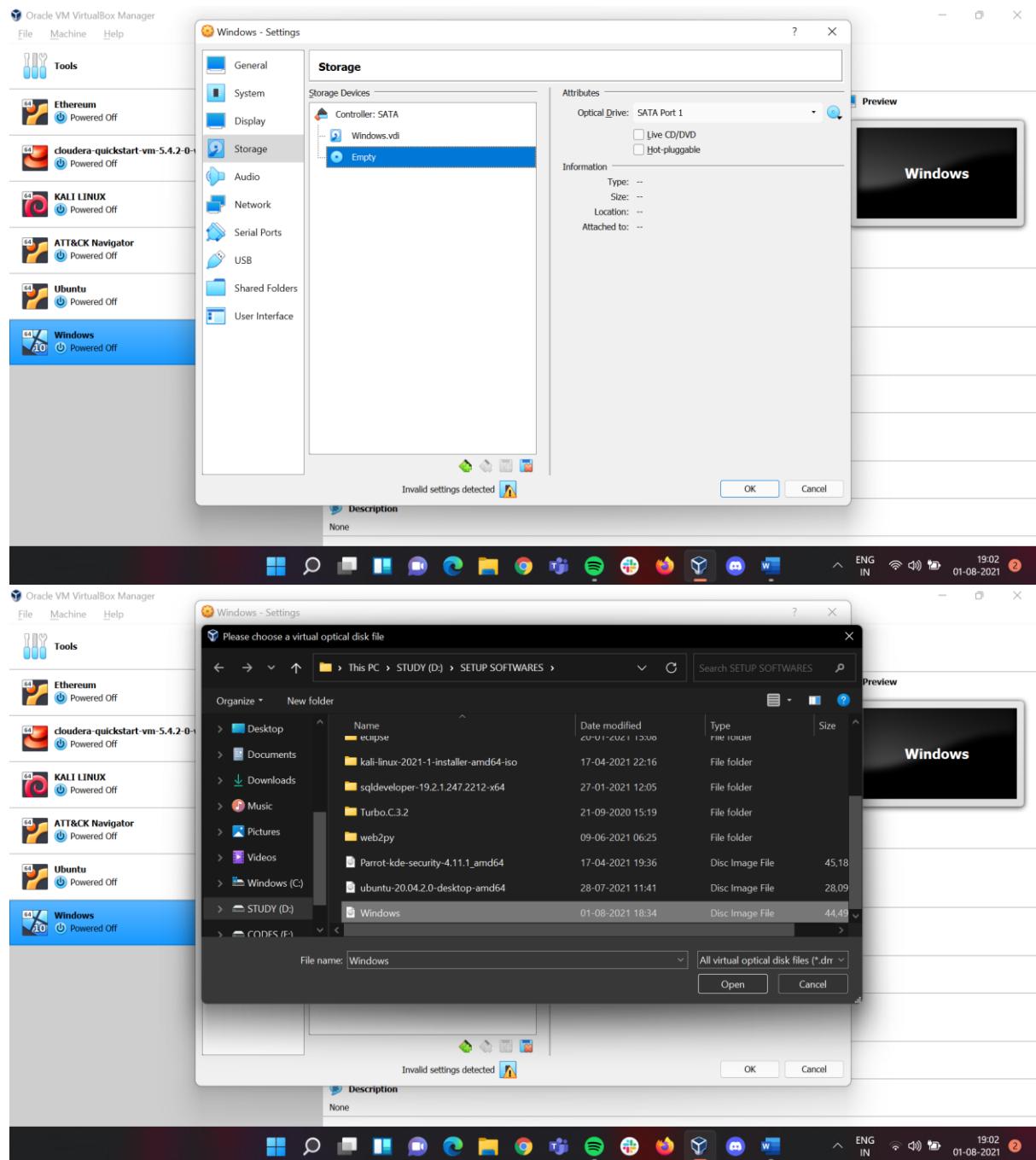
System click on Processor and change Processor(s) from 1 CPU to 4 CPU.



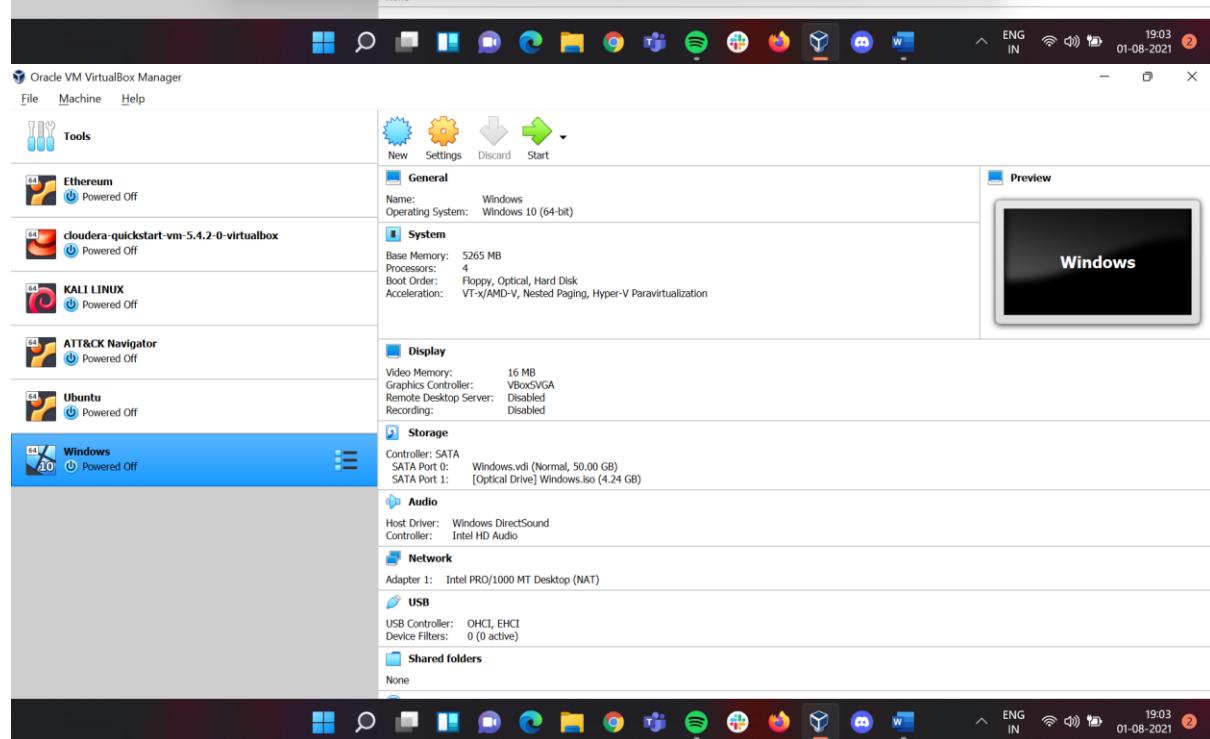
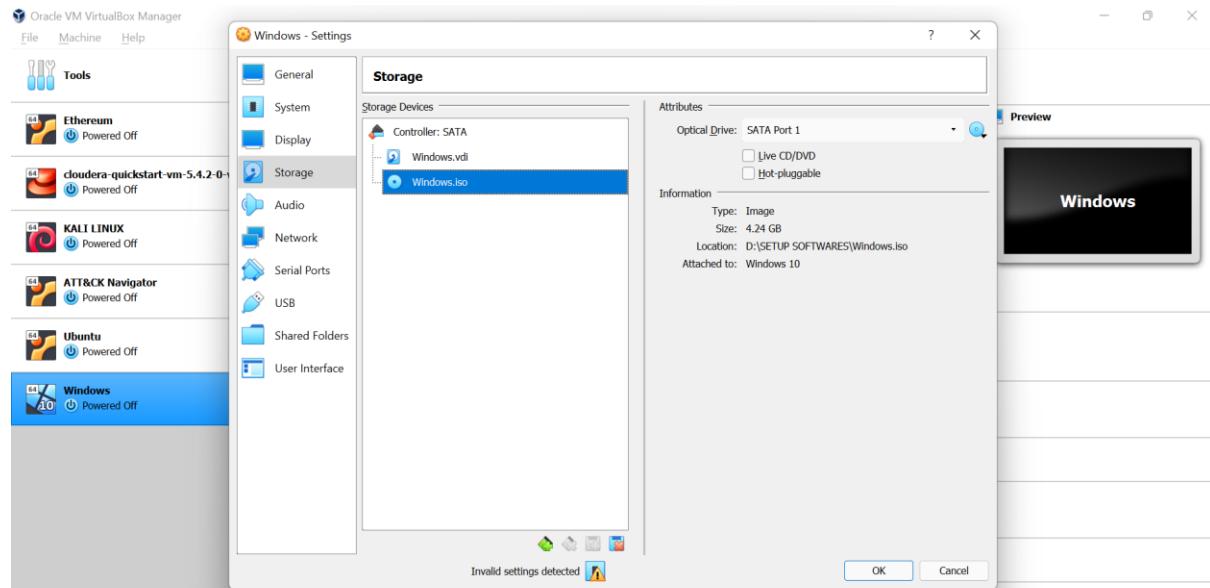
## Display leave it as default



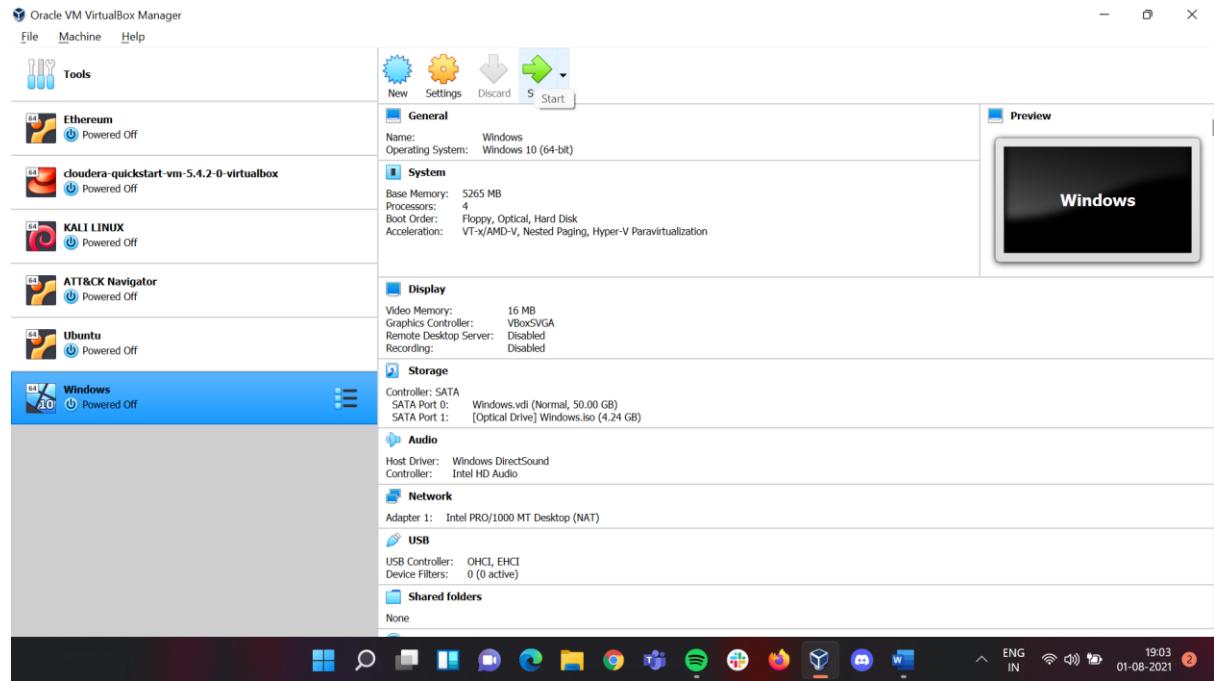
Storage click on Controller : SATA – Empty here we have to add the ISO file we downloaded for that click on the disk icon then on Choose a disk file and choose the ISO file



Once added click on **Ok** and then the main page will open.

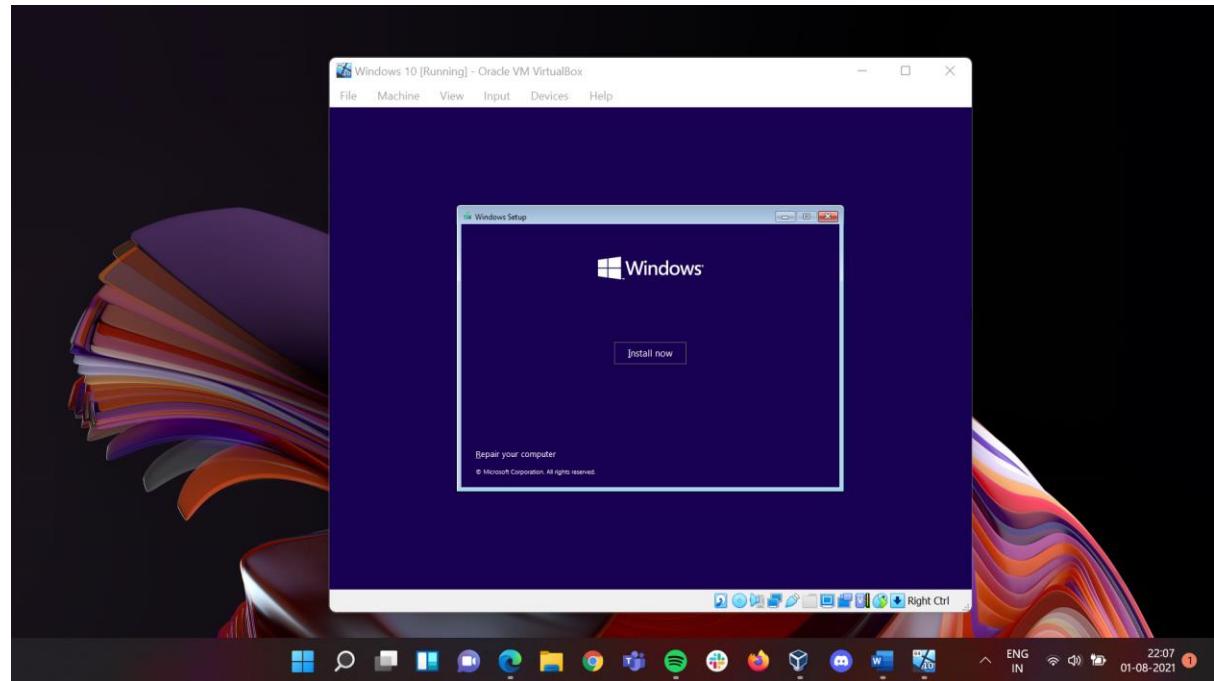


Once the above steps are followed click on **Start**.

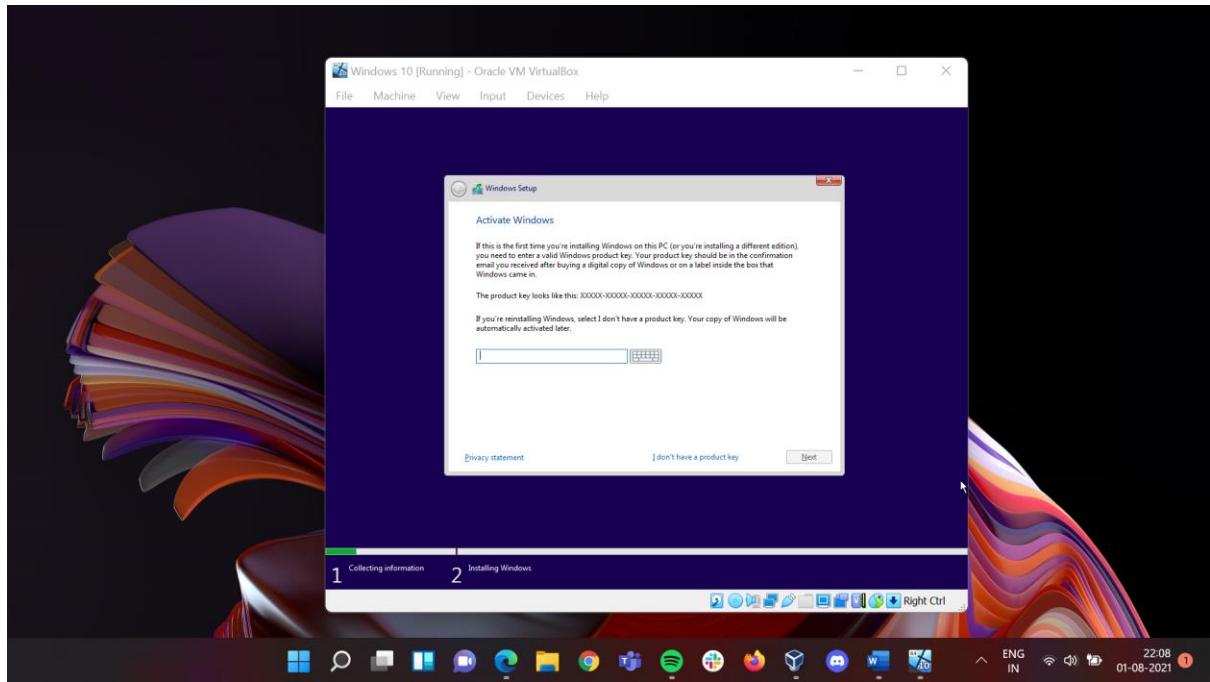


Once clicking on **Start** a new window will open with Windows and follow the following steps

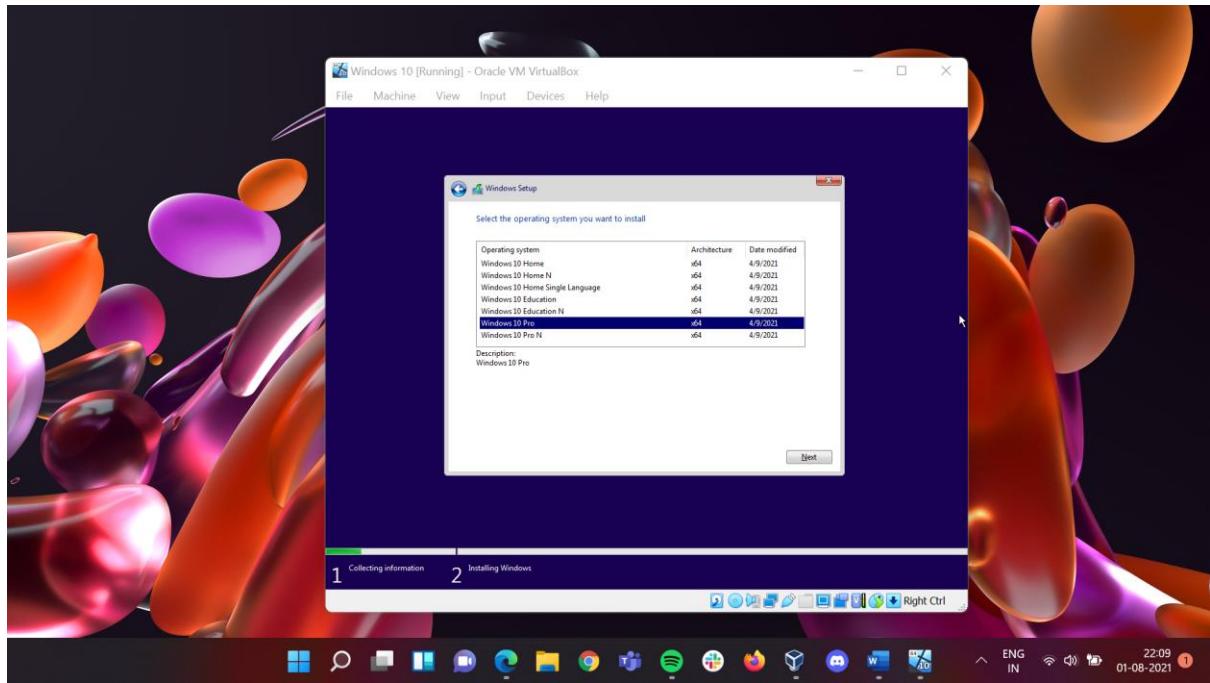
Click on **Install Now** Button



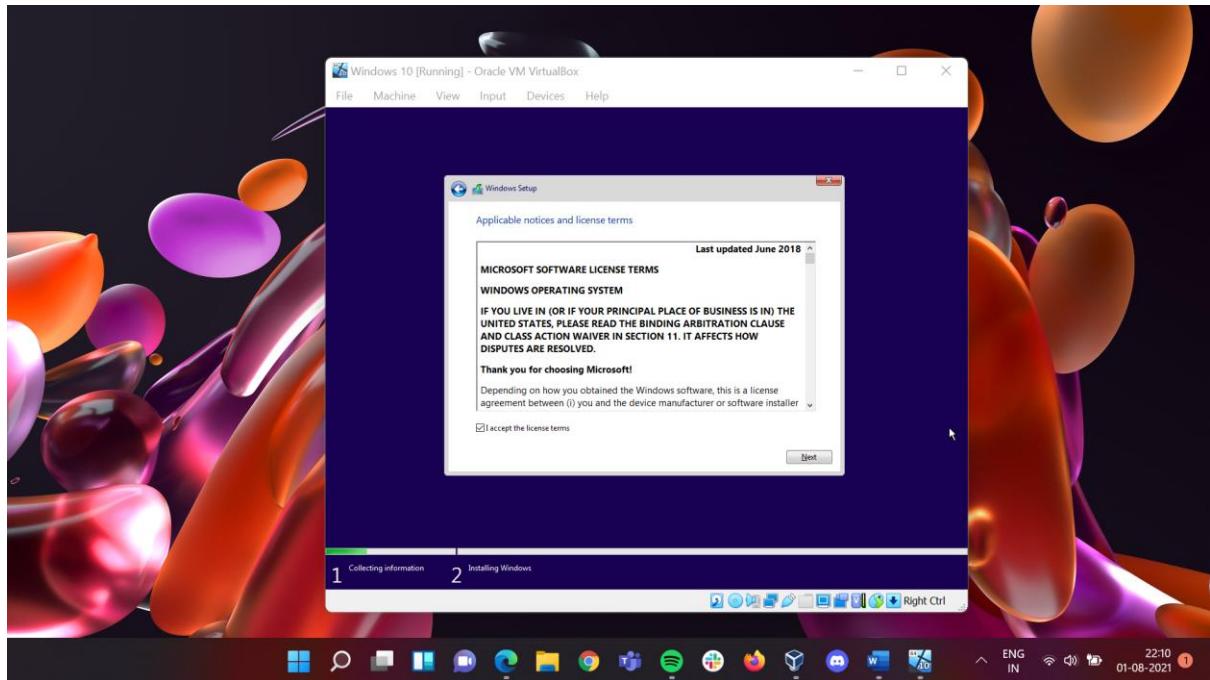
Since we don't have a product key click on **I don't have a product key** to proceed further



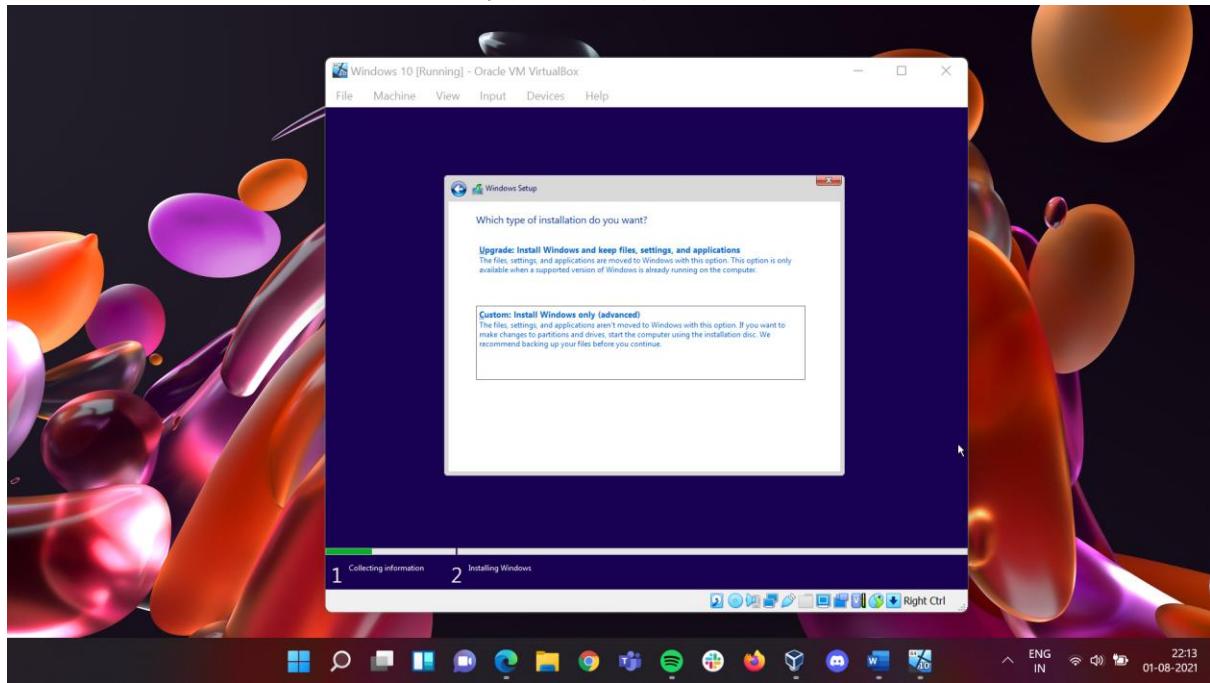
Here click on **Windows 10 Pro Edition** and then click on **Next** to proceed further.



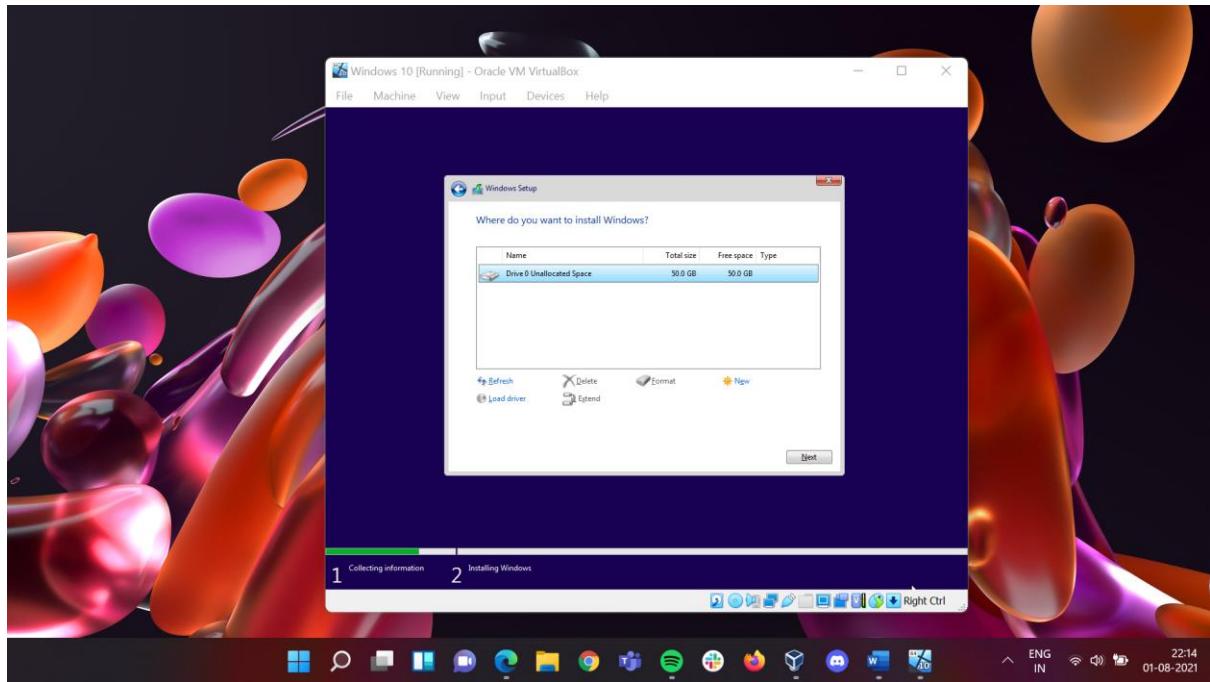
Accept the License Terms and click on **Next** to proceed further.



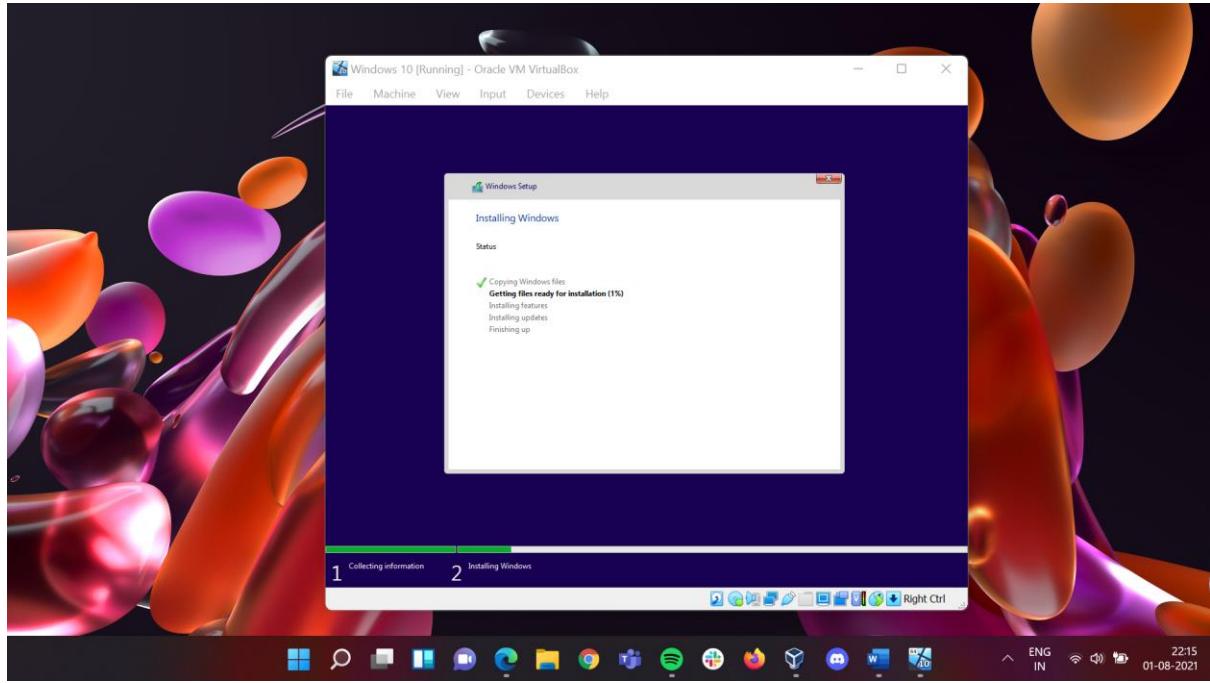
Click on **Custom: Install Windows Only (Advanced)** to proceed further



Click on **Next** to proceed further

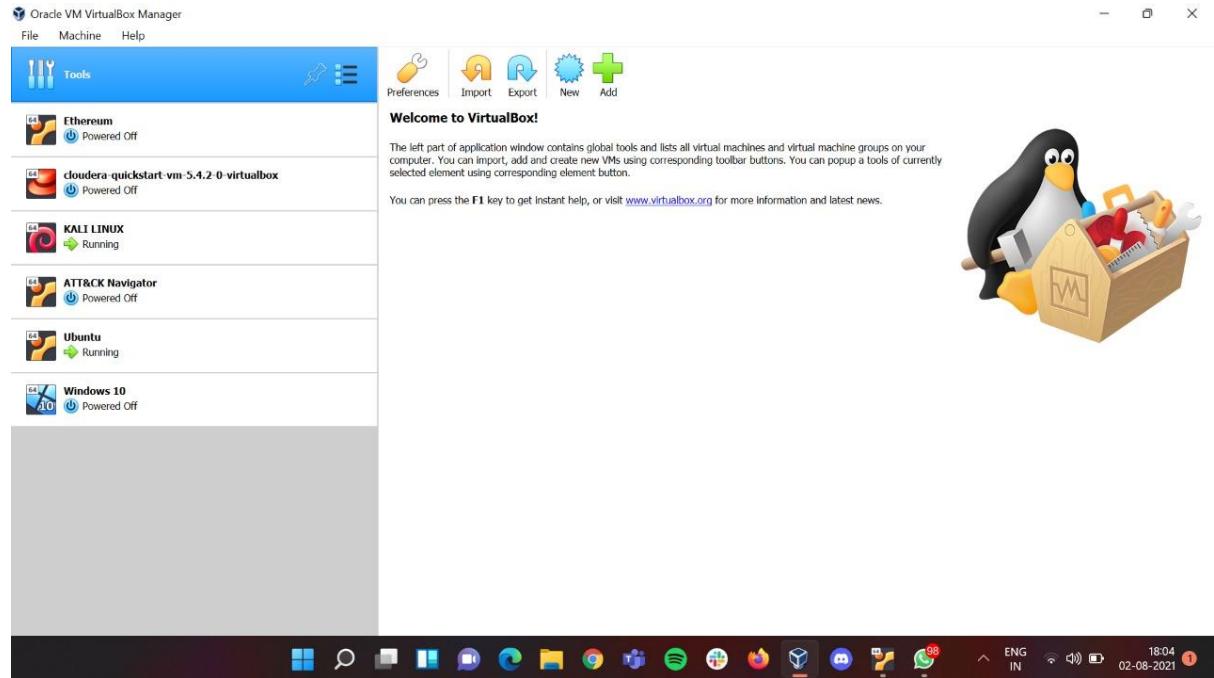


The Installation process will start

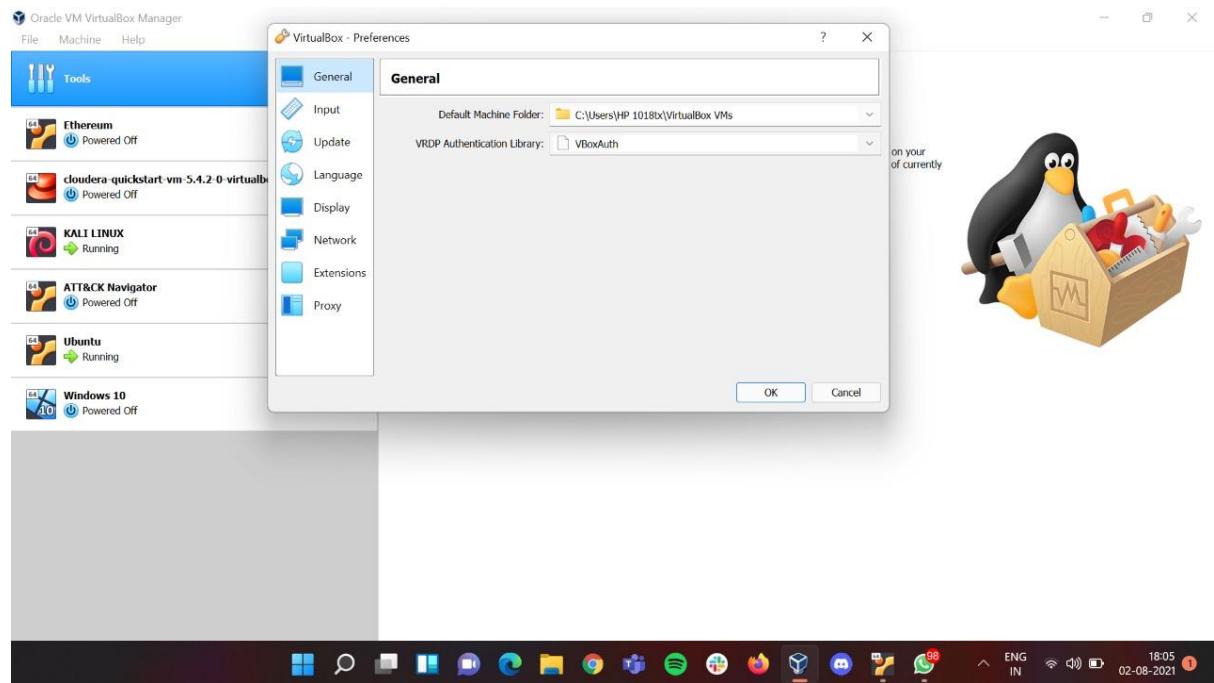


Since the installation is not being completed here, I will be using Kali Linux here

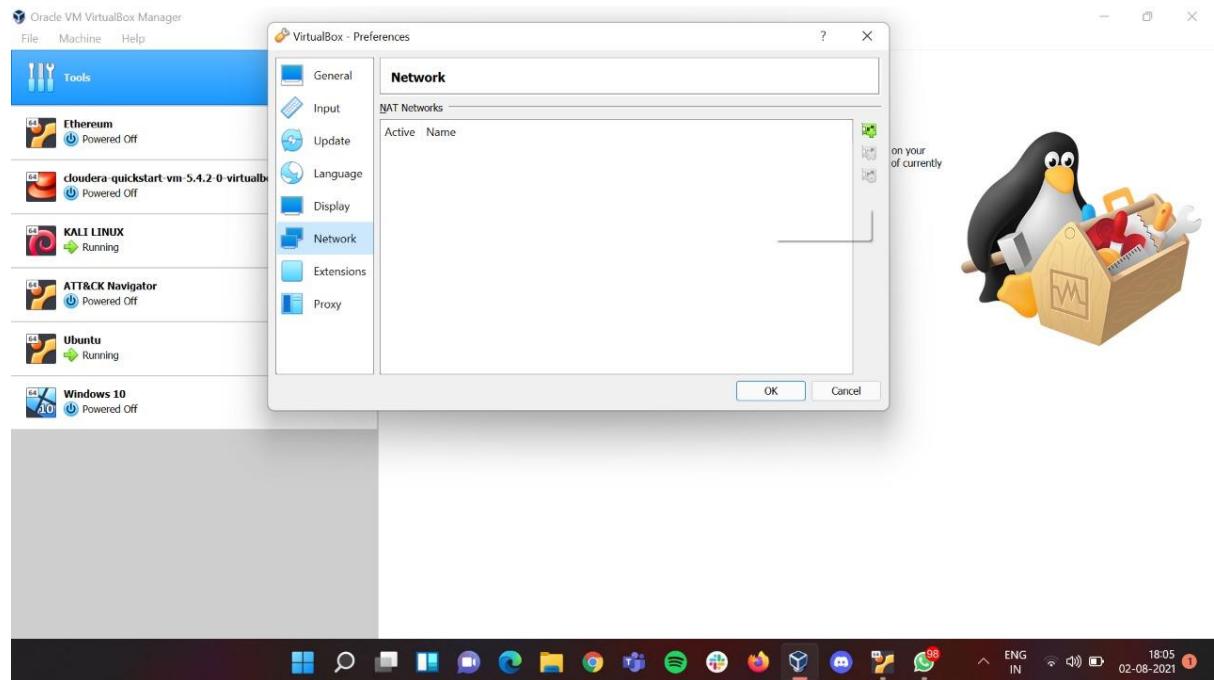
Now open the Oracle Virtual Machine



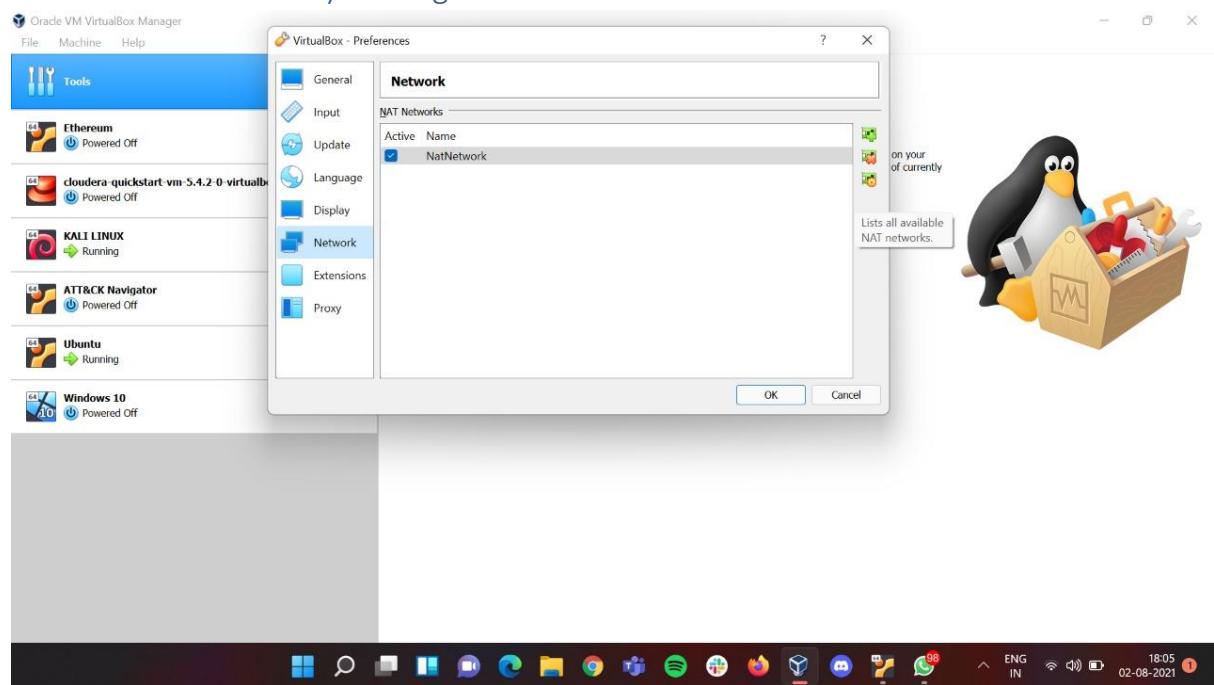
Click on Preferences from the Toolbar.



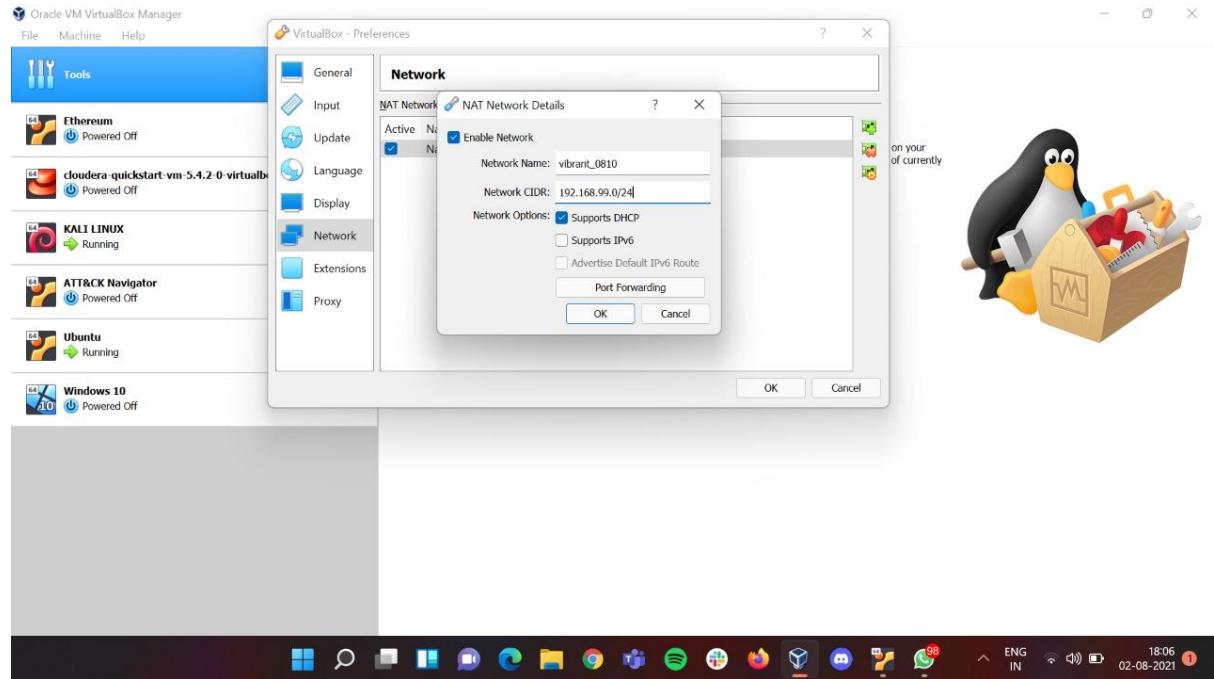
## Click on Network.



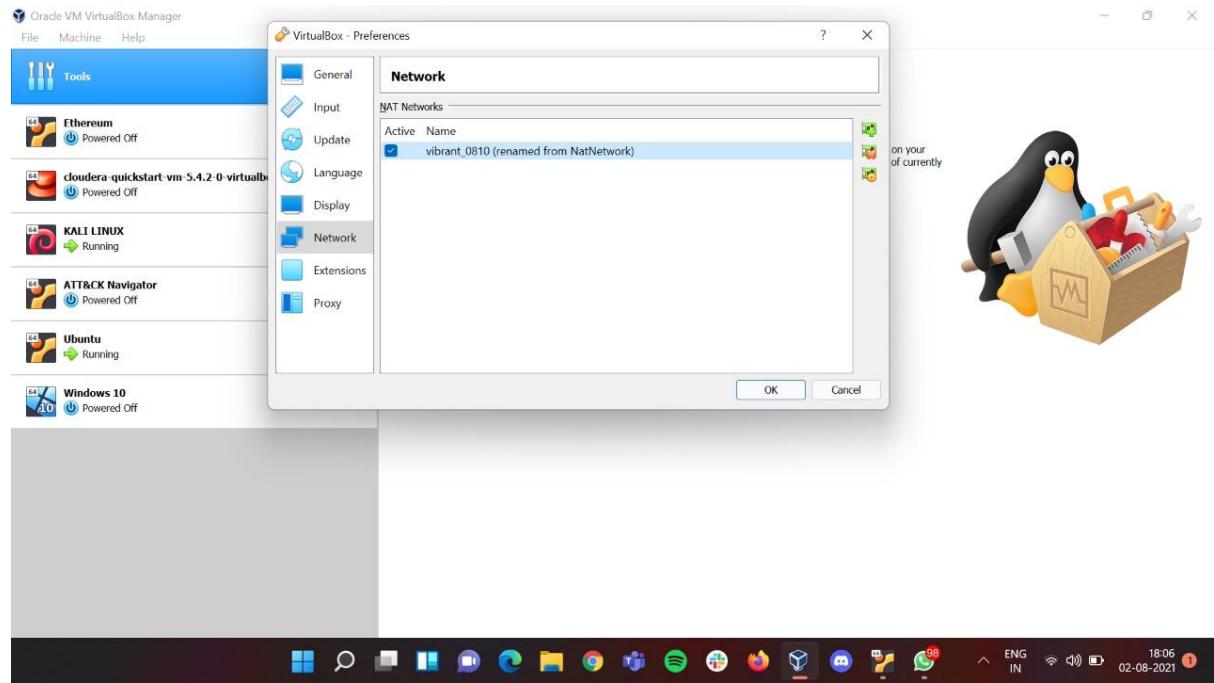
Add a network there by clicking on icon



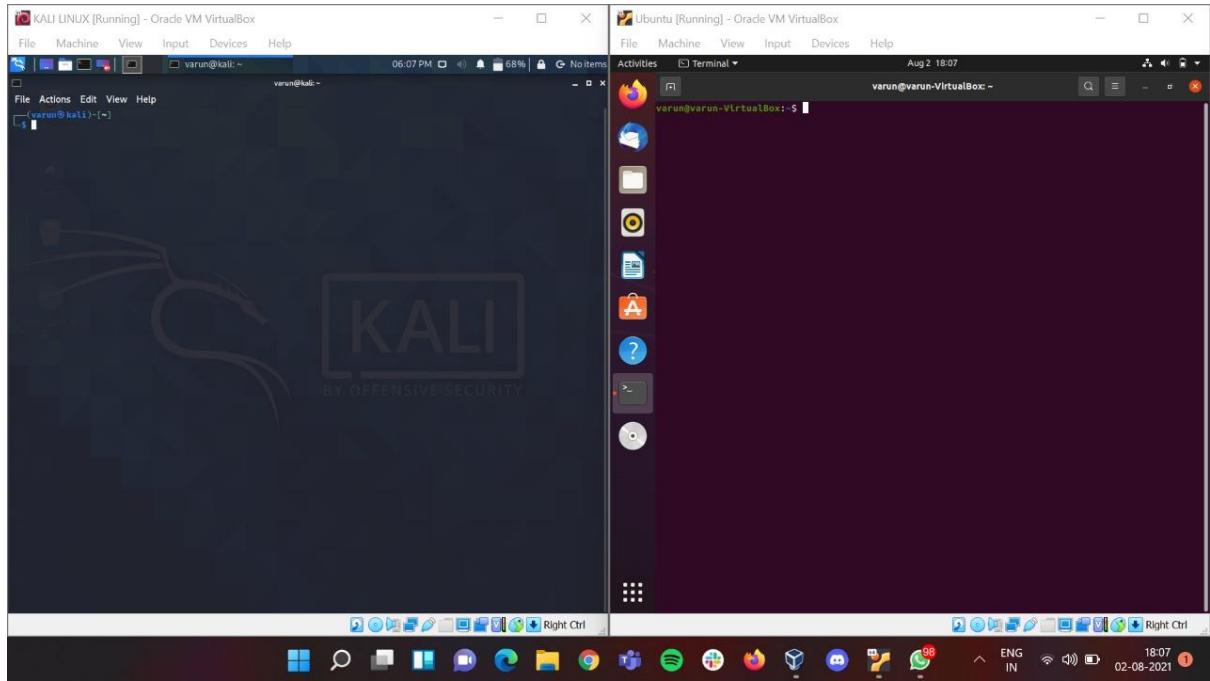
Doble click on **NatNetwork** and change the **Network Name** to **vibrant\_0810** and **Network CIDR** to **192.168.99.0/24** and then click on **OK** button.



After click on **OK** button, you can see the changed network name there. Click on **OK** button to proceed further.

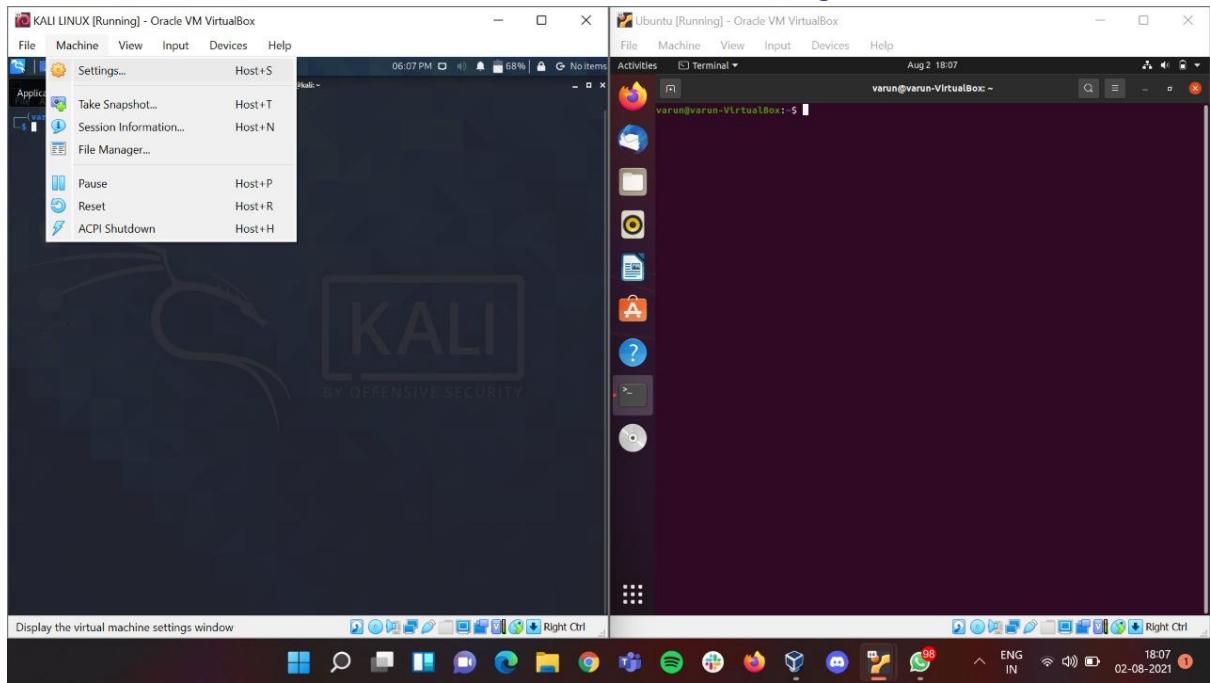


Now open Kali Linux and Ubuntu windows side by side.

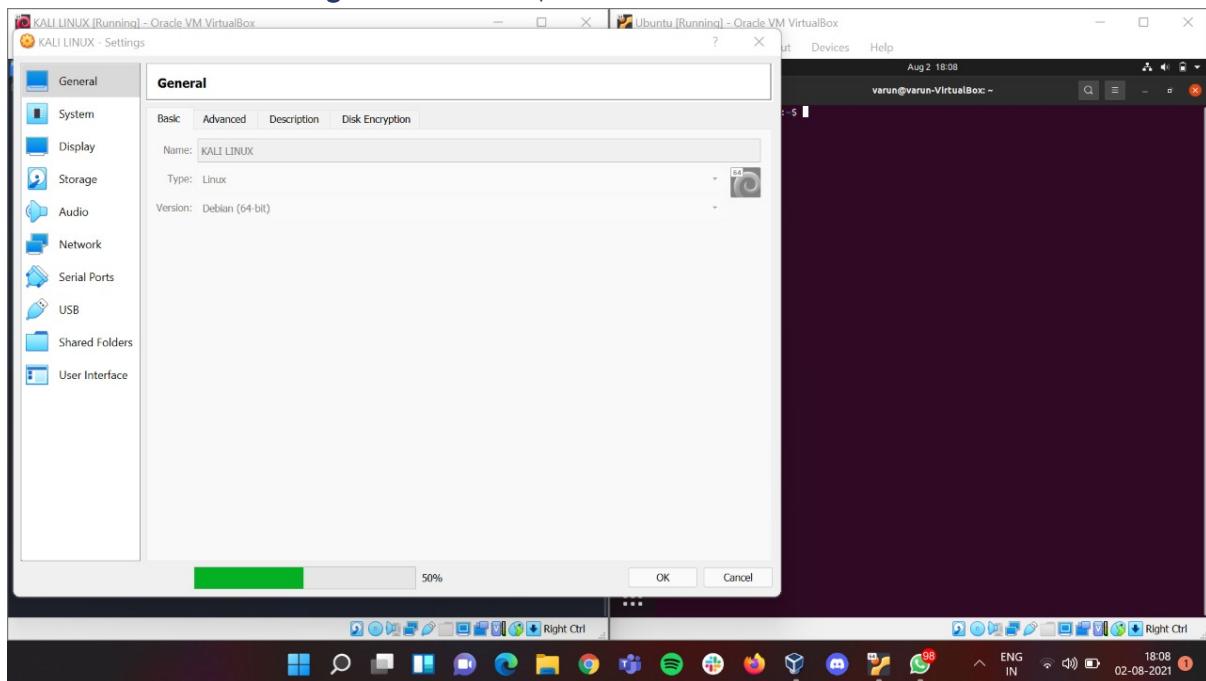


Now will add the network added in Kali. To do that follow the steps below.

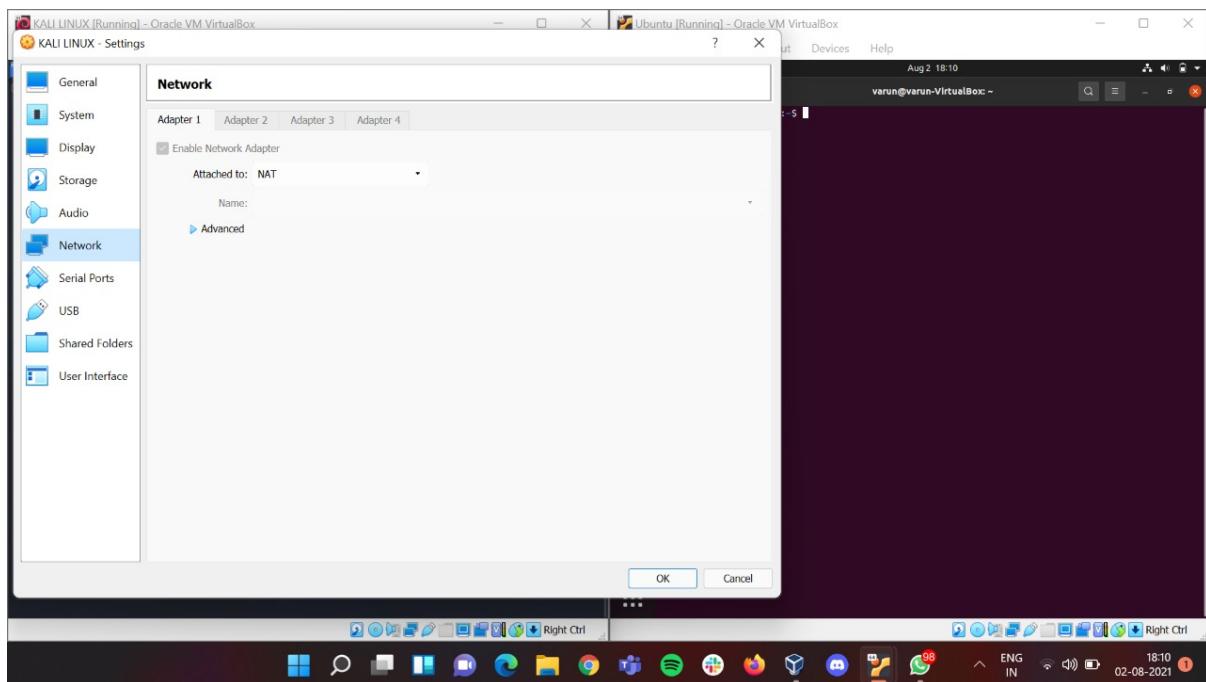
From Kali Linux Toolbar click on Machine on that click on Settings.



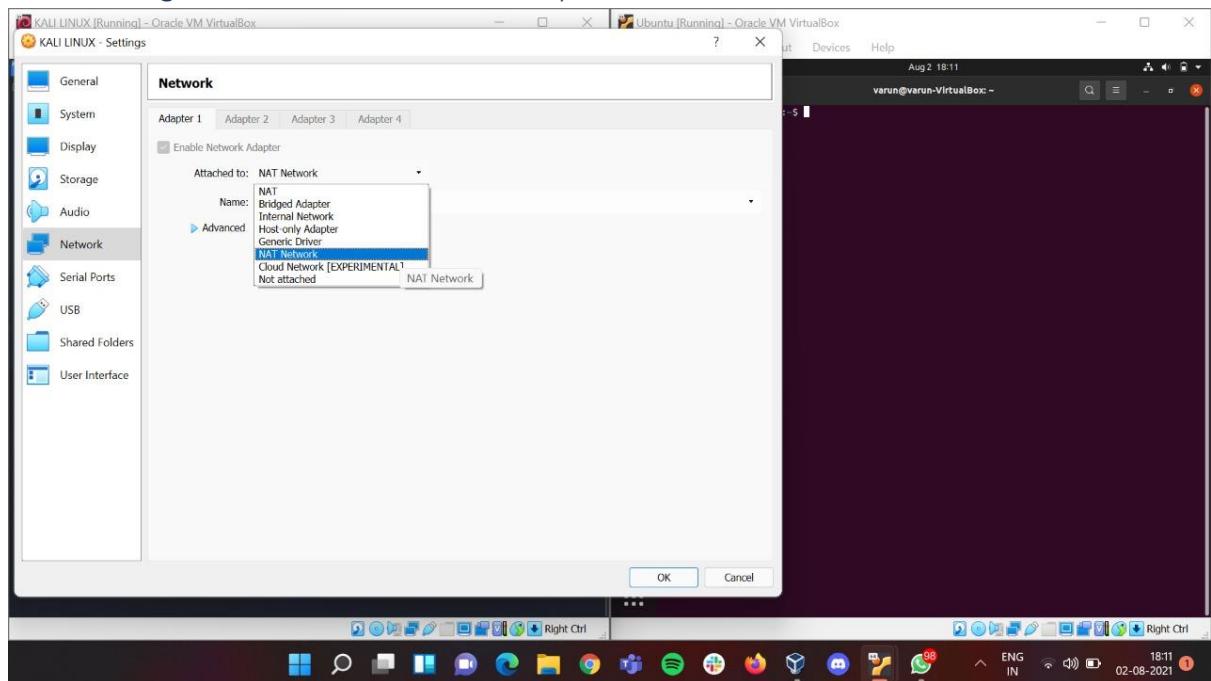
Now the Kali Linux Settings window will open.



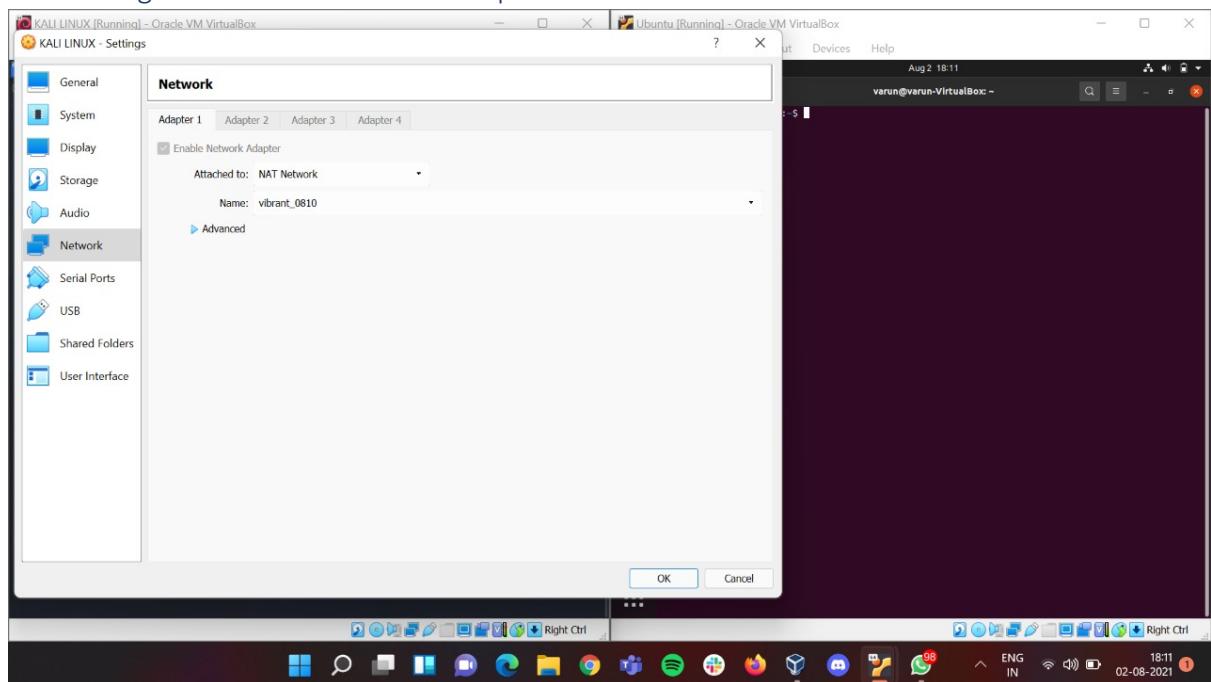
Click on Network section



After clicking on that from Attached to Dropdown box click on NAT Network

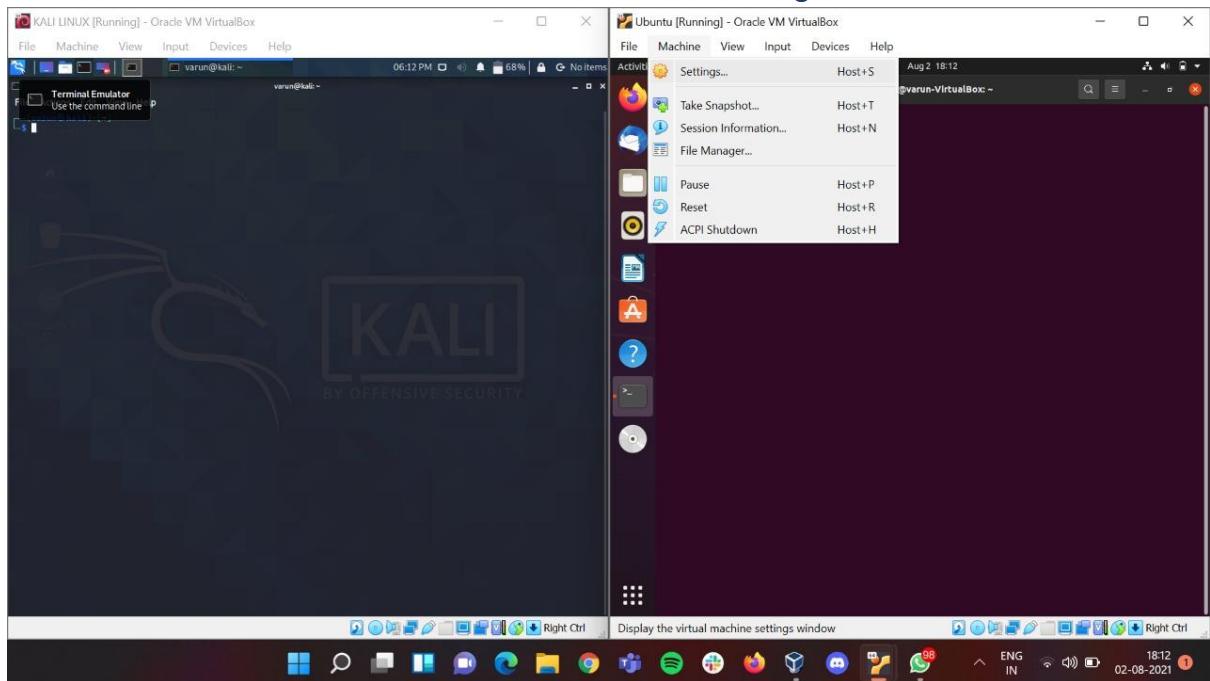


After doing that click on OK Button to proceed further.

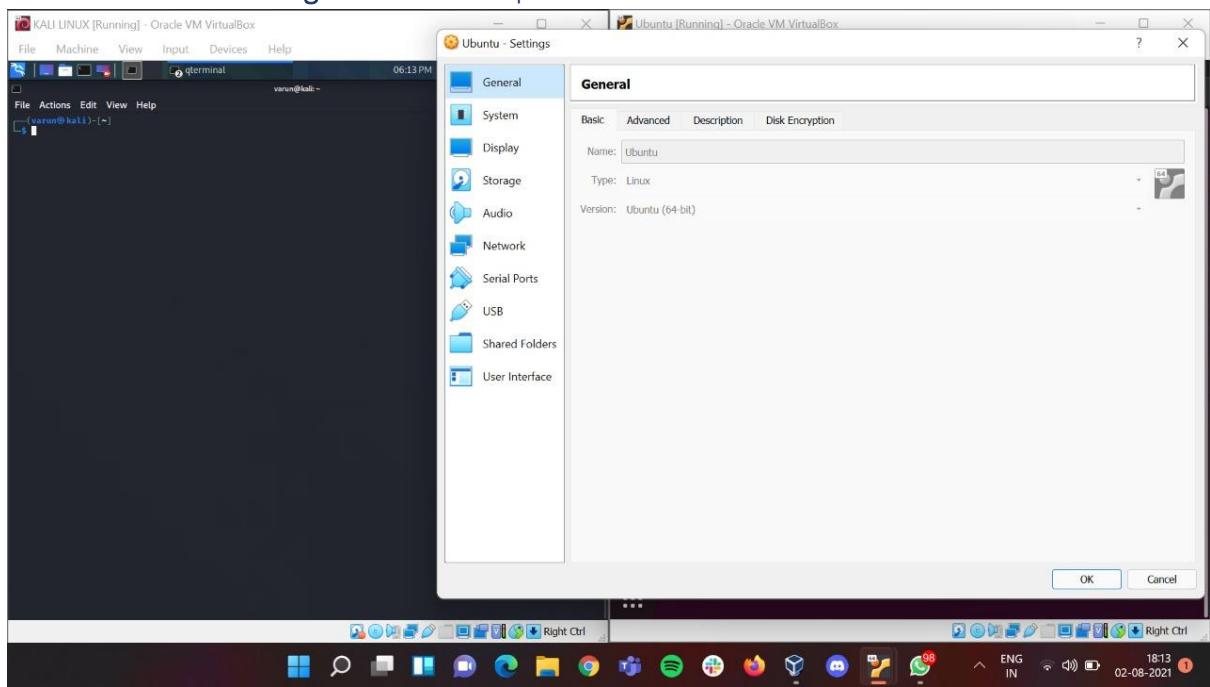


Now will do the same in Ubuntu. To do that follow the steps below.

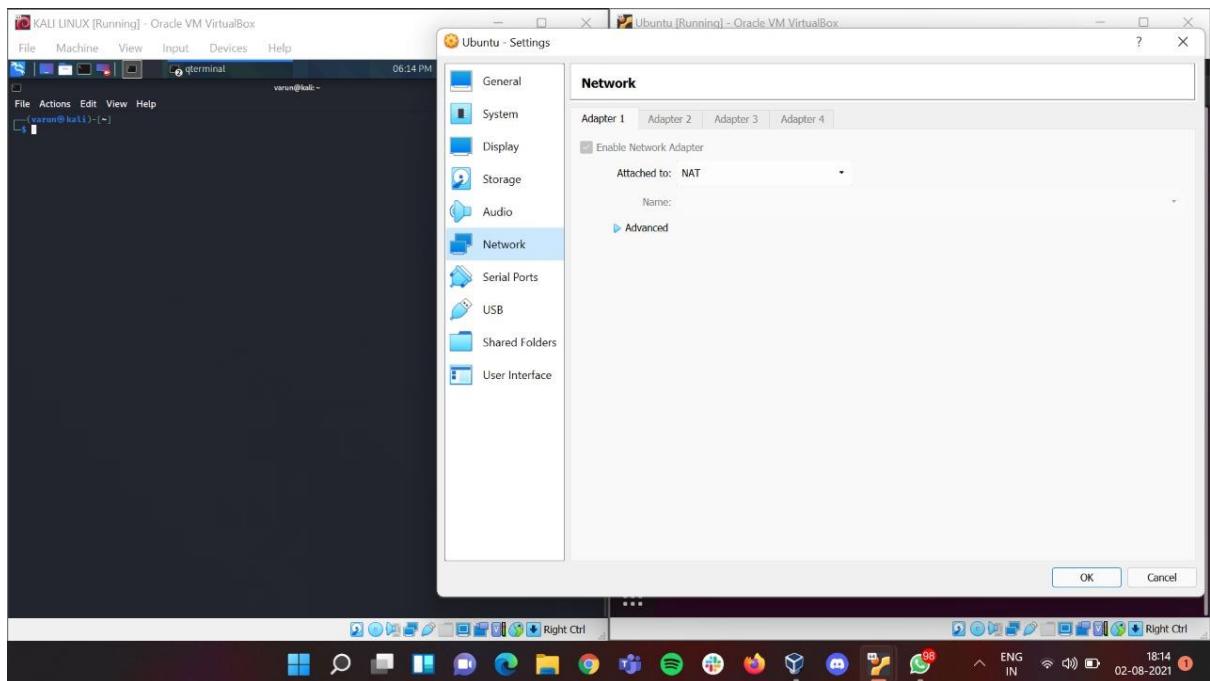
From Ubuntu Toolbar click on Machine on that click on Settings.



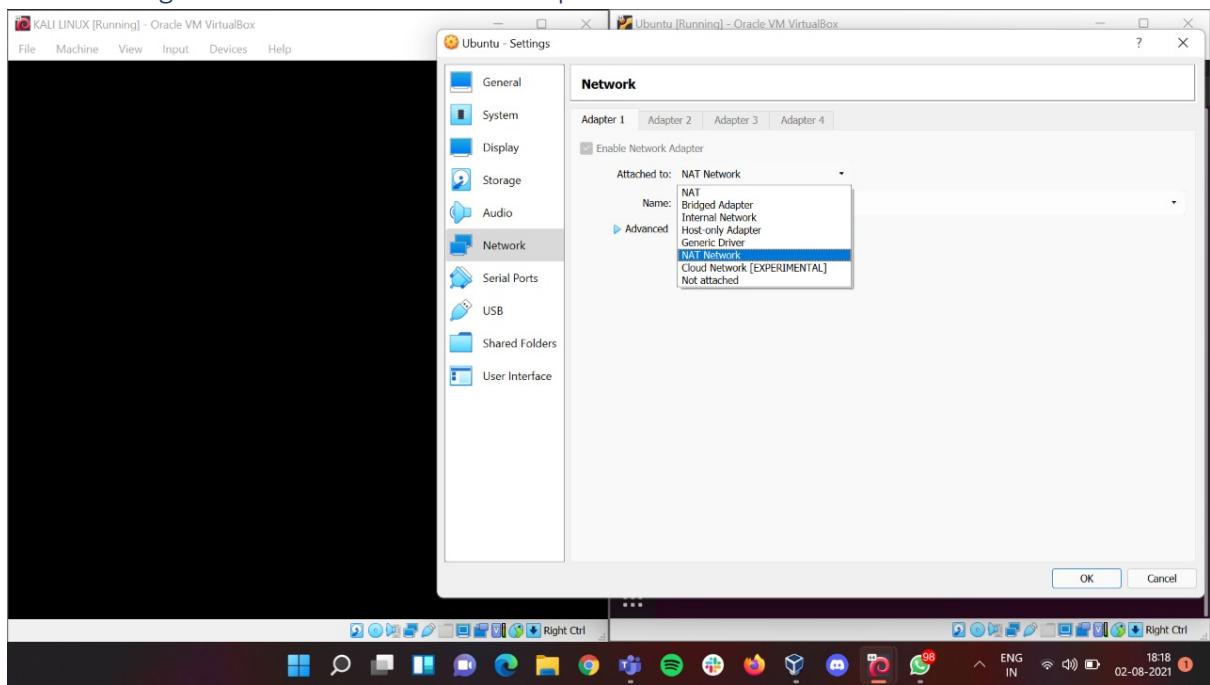
Now the Ubuntu Settings window will open.



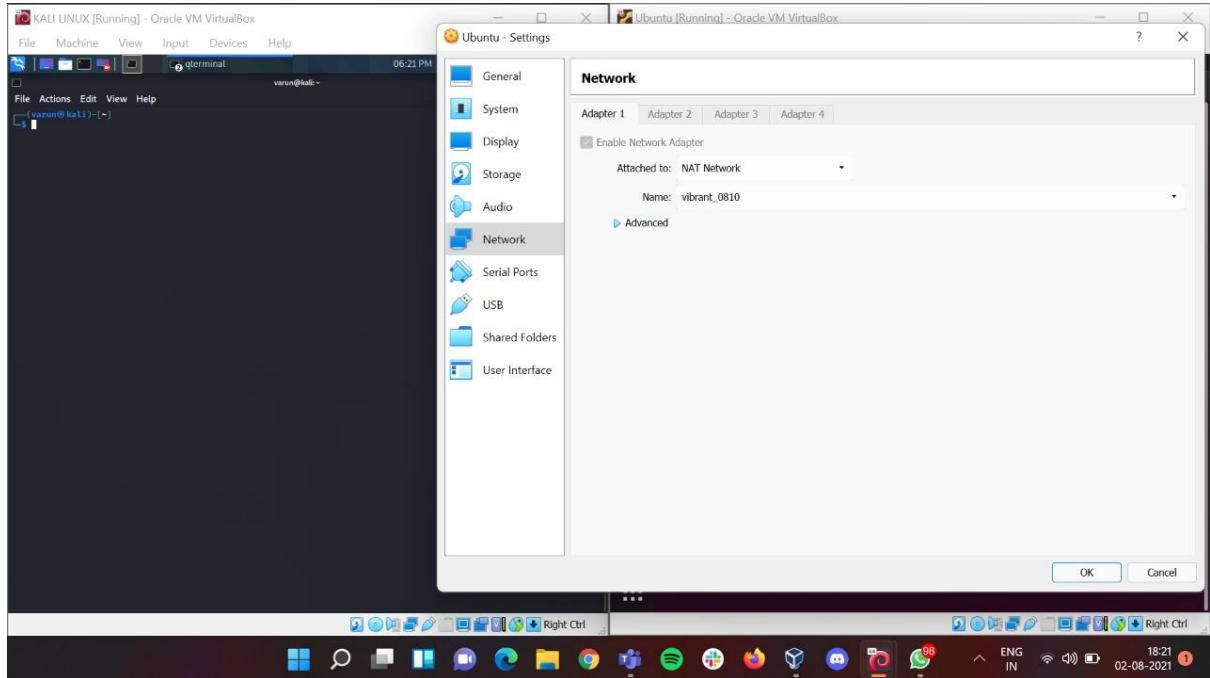
Click on **Network** section



After clicking on that from Attached to Dropdown box click on NAT Network

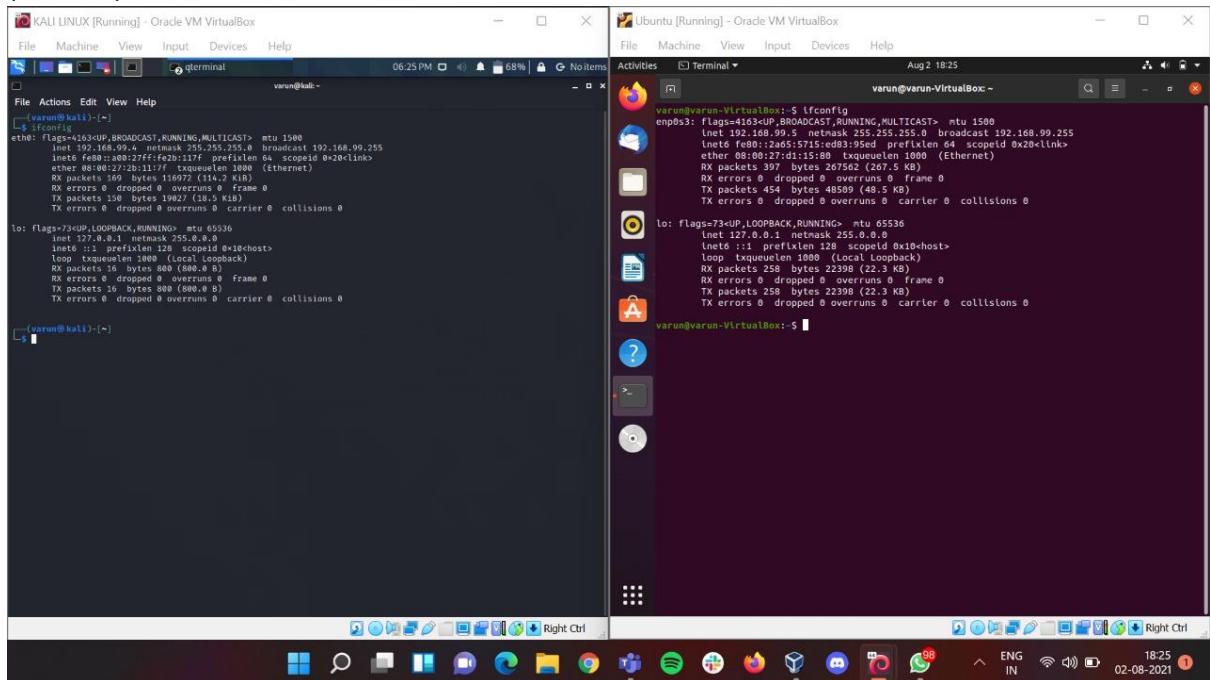


After doing that click on **OK** Button to proceed further.

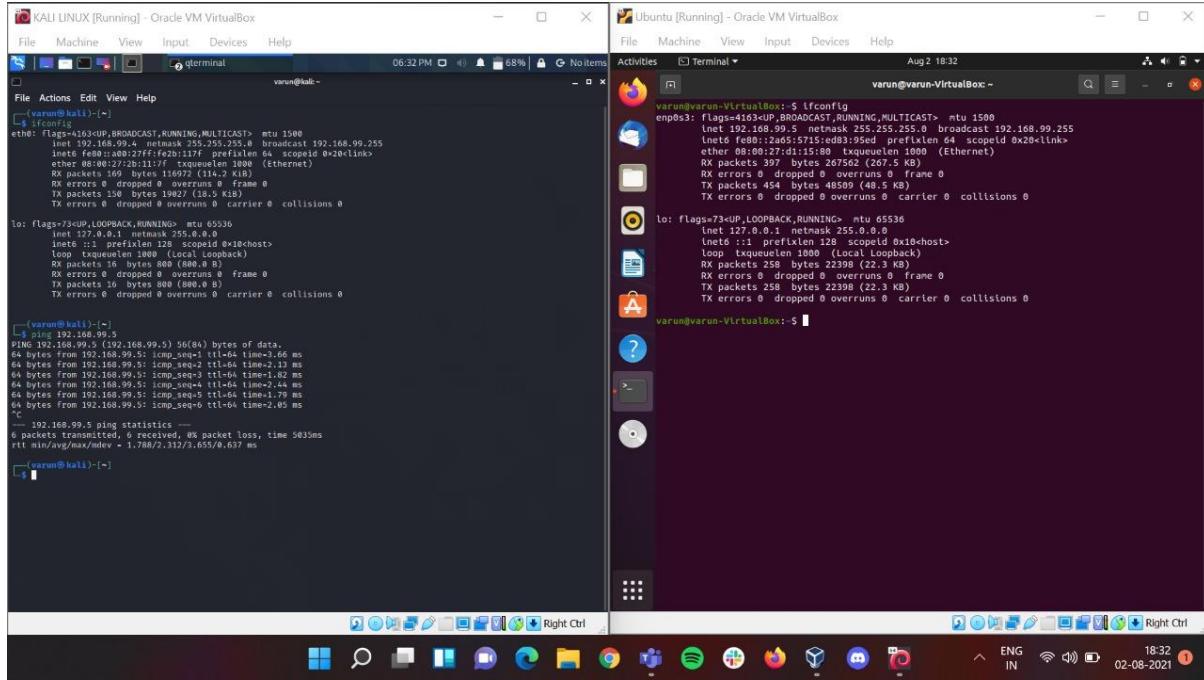


Since now the added network is added in Kali Linux and Ubuntu follow the following steps now.

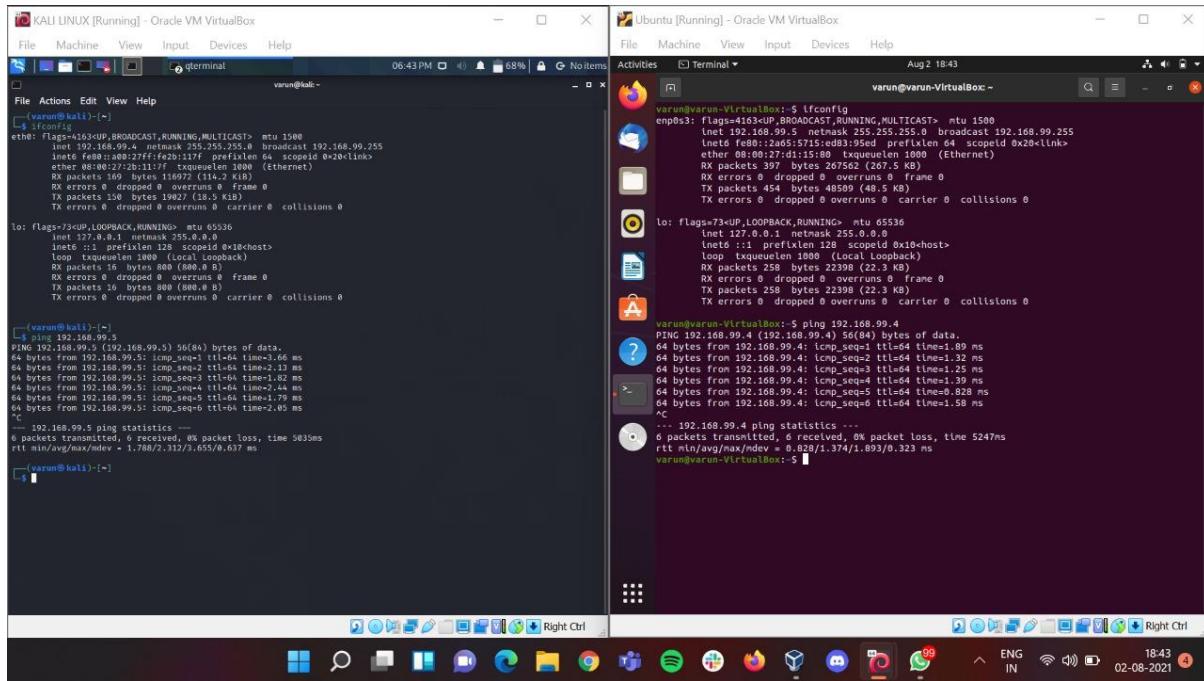
Enter **ifconfig** command in both **Kali Linux** and **Ubuntu** and you will get the below output and here you can check the new IP Address added viz **192.168.99.4** (**Kali Linux**) and **192.168.99.5** (**Ubuntu**).



Now enter ping 192.168.99.5 command in Kali Linux to make it communicate with Ubuntu Network. Press **ctrl + c** to stop the sequence.



Now enter ping 192.168.99.4 command in Ubuntu to make it communicate with Kali Linux Network. Press **ctrl + c** to stop the sequence.



Hence, we can make Kali Linux and Ubuntu communicate with each other

## Conclusion

Hence, we were able to install Windows 10/Kali Linux on VirtualBox and to make Windows 10/Kali Linux and Ubuntu communicate with each other.