Create a new VM

DISCLAIMER

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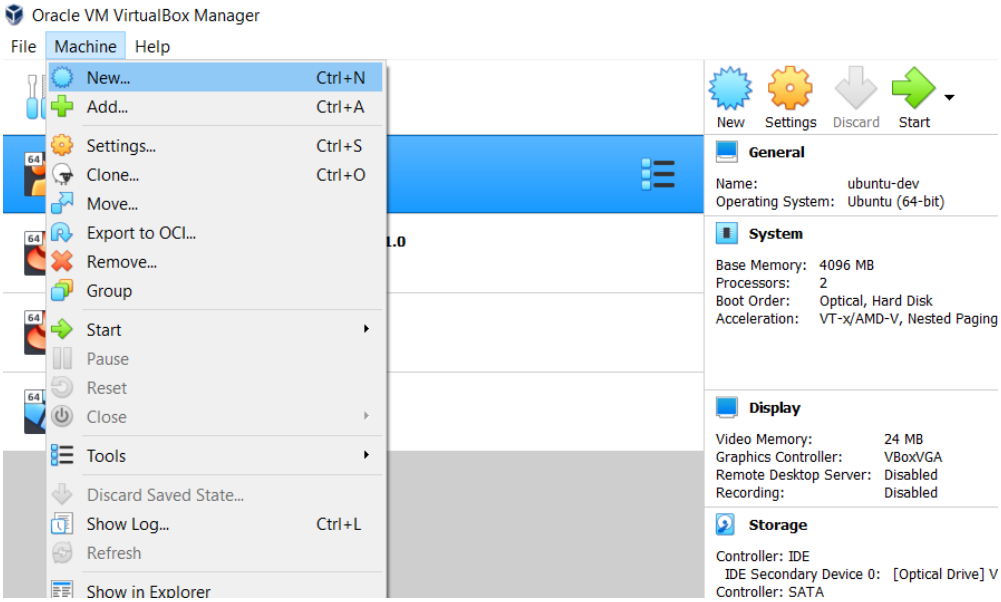
https://tech2talk.github.io/vms-and-containers/disclaimer.pdf

1. Download Ubuntu 18.04.5 64 bit desktop image from here.
   https://releases.ubuntu.com/18.04/ubuntu-18.04.5-desktop-amd64.iso

   This step is a download only step, you would not be able to execute this file. You would need this file later on for step 14 so remember the location where it is being saved.

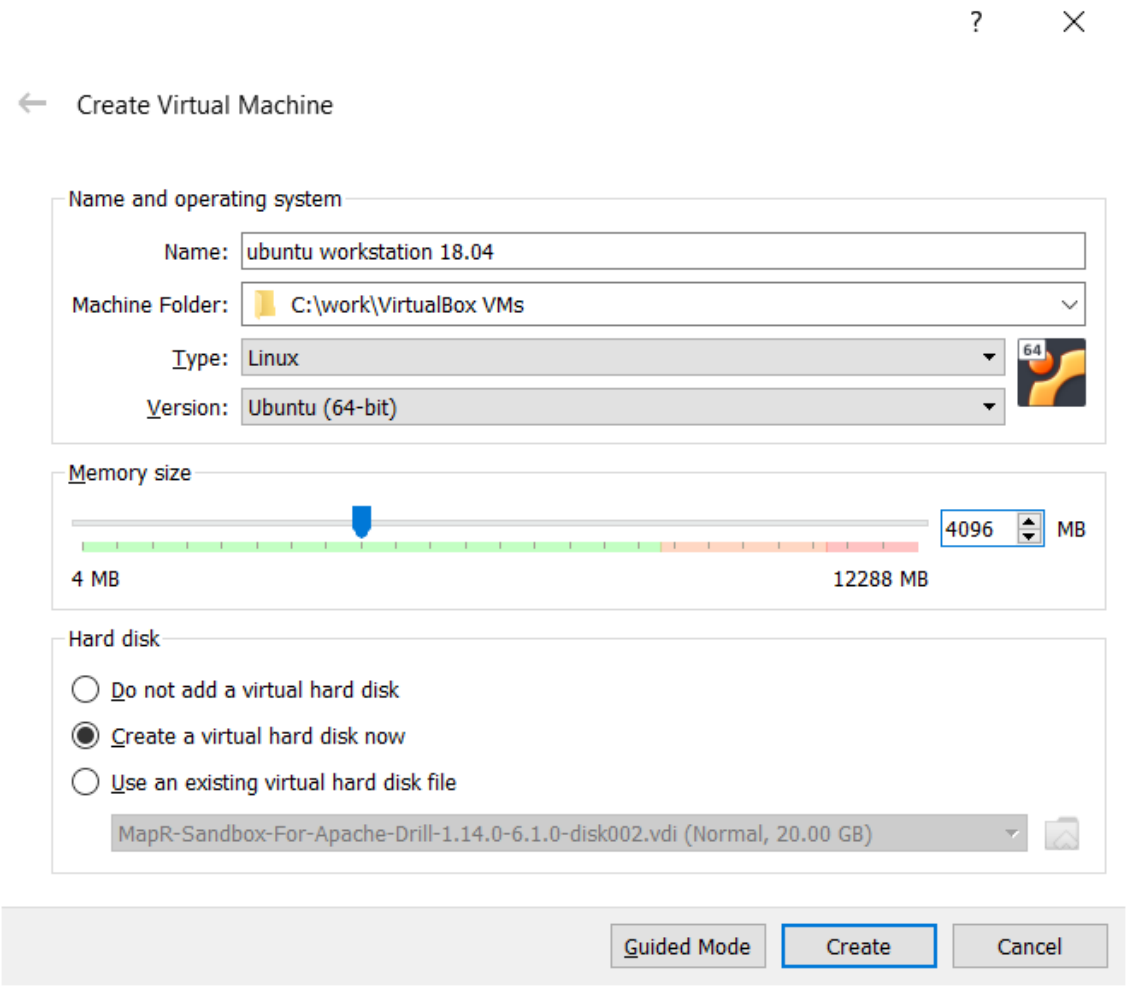
2. Start virtual box from start menu.

3. Create a new VM from “Machine” → “New“.



4. Select the following and then click Create.

   Name: ubuntu workstation 18.04
   Machine Folder: C:\work\VirtualBox VMs
   Memory size: 4096

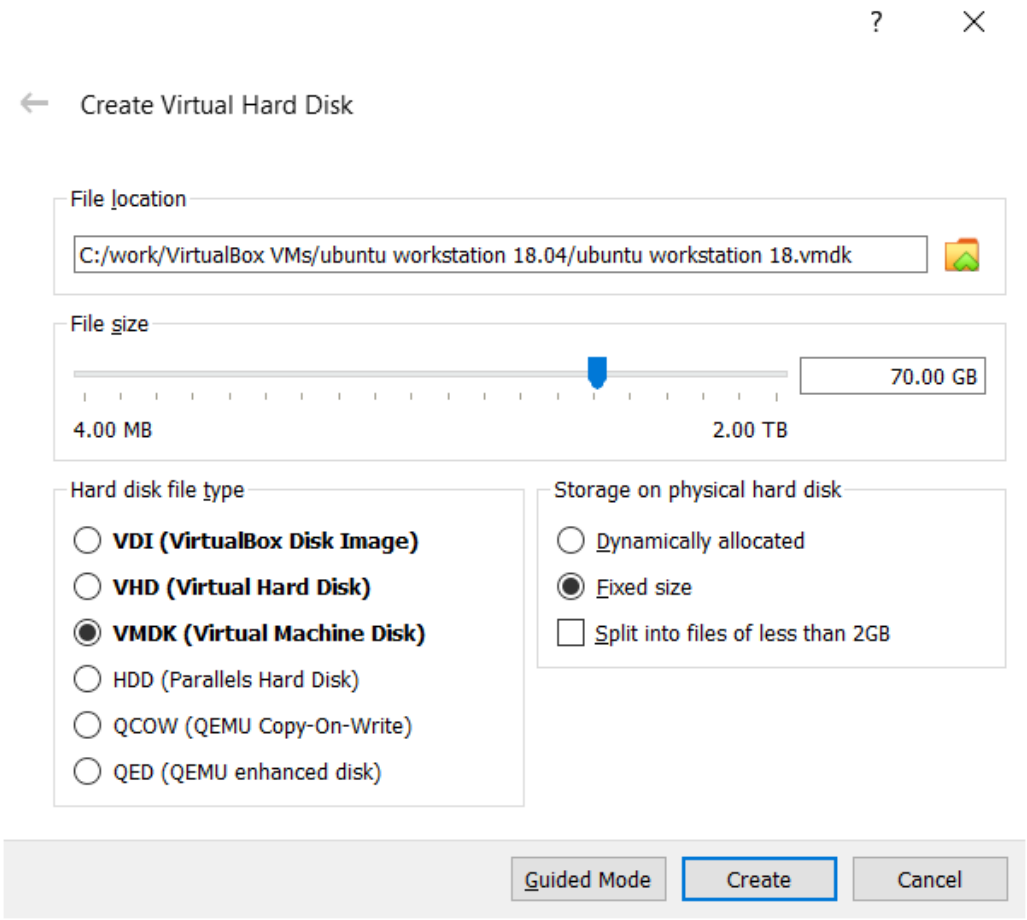


5. Next we will add Virtual Disk to this new machine.

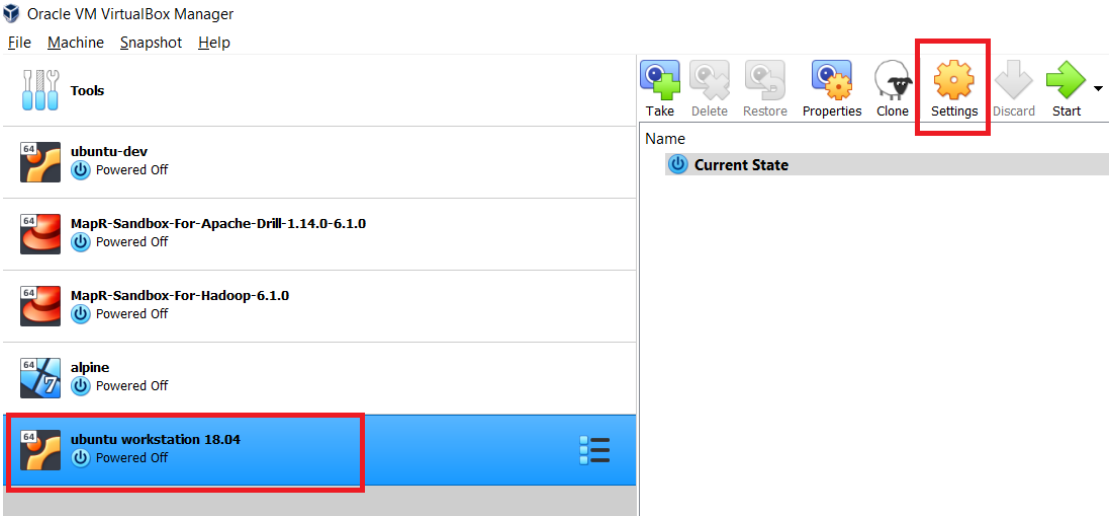
   Use the following settings

   File Size: 70 GB
   Hard disk file type: VMDK (virtual machine disk)
   Storage on physical hard disk: Fixed size.

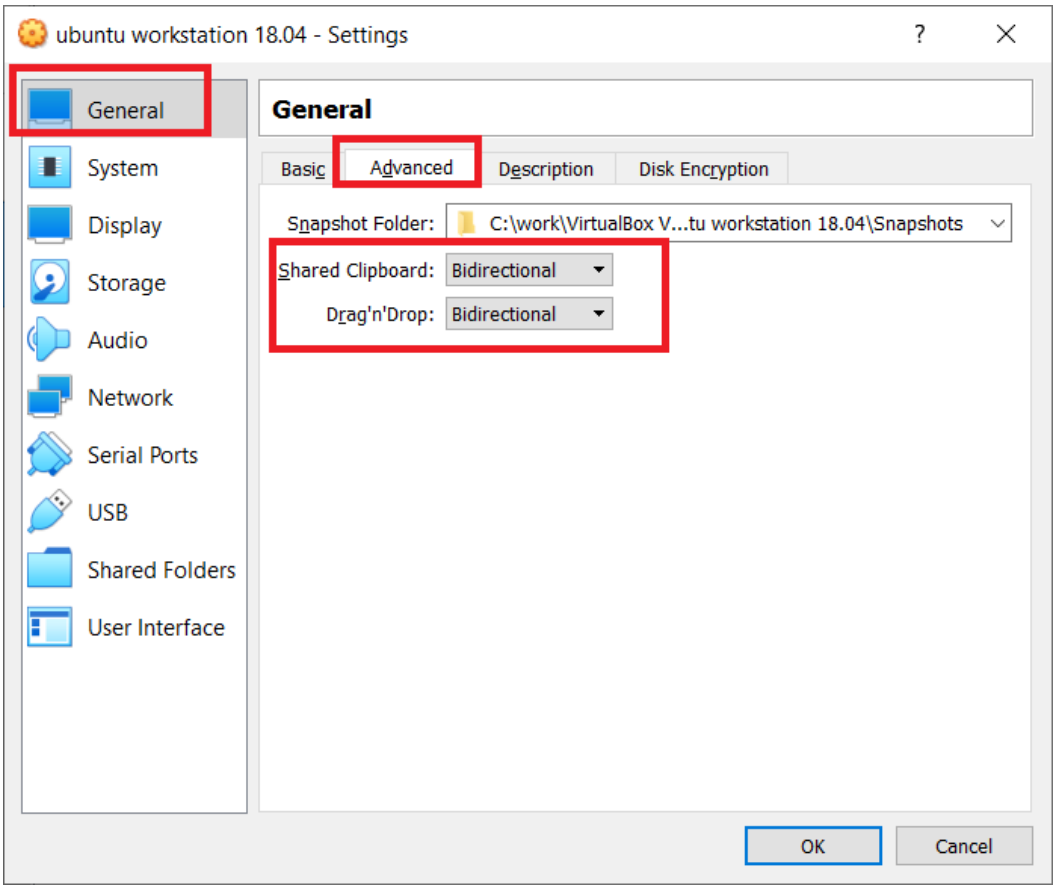
   Click Create after setting these configs. It will take some time to create a 70 GB file on the disk.



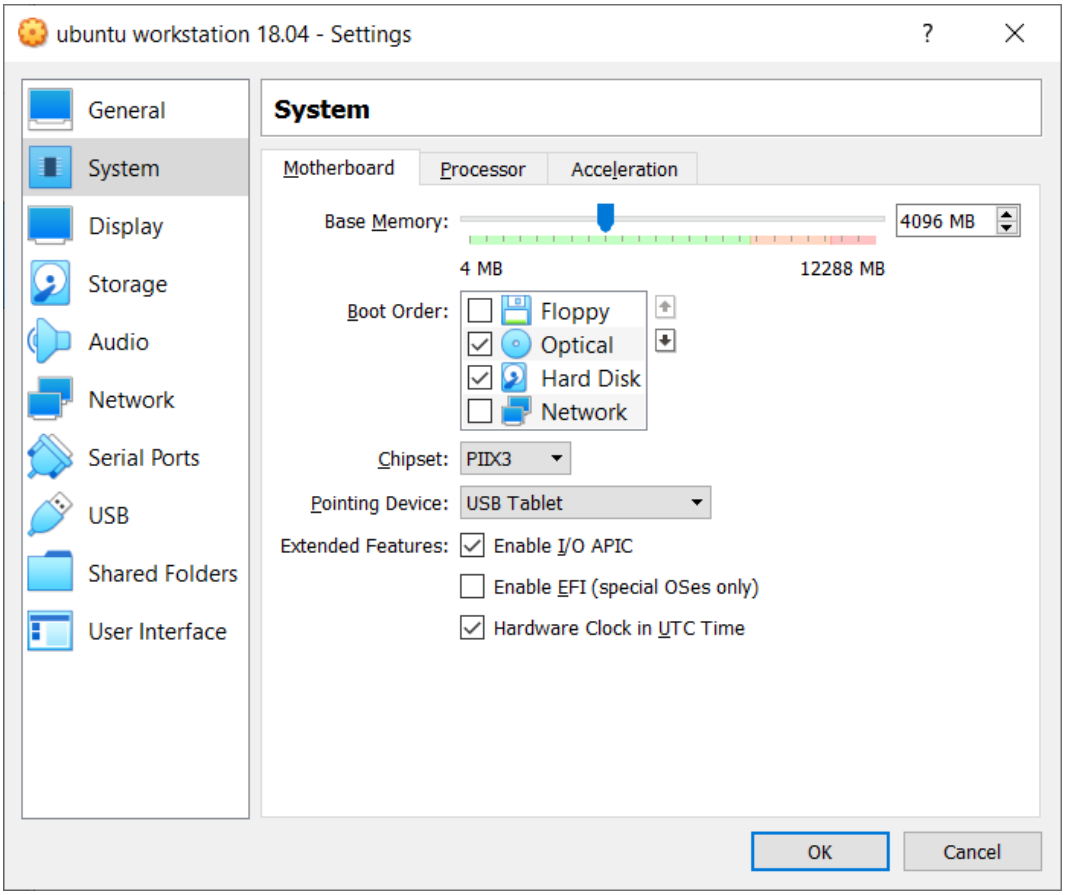
6. You should see a new VM. Click on it and then click settings.



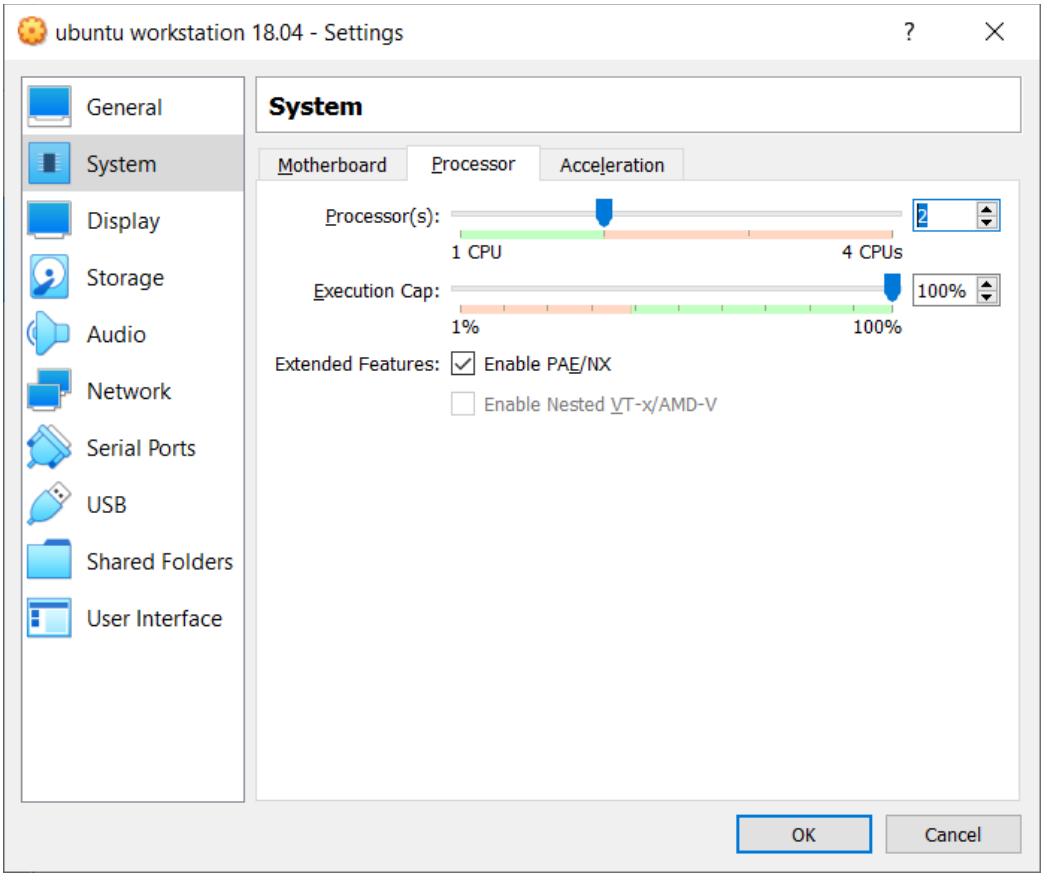
7. Under “General” → “Advanced” select Bidirectional if it not already selected.



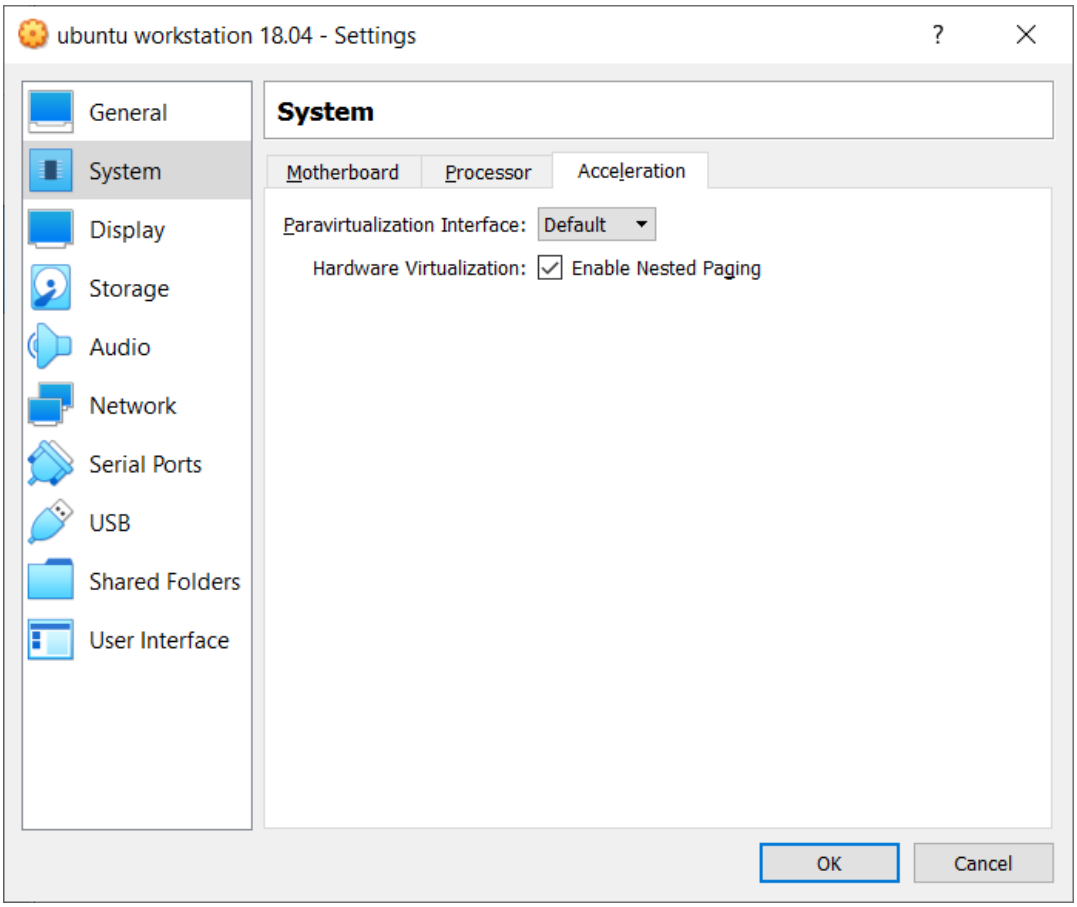
8. Under “System” → “Motherboard”, unselect floppy



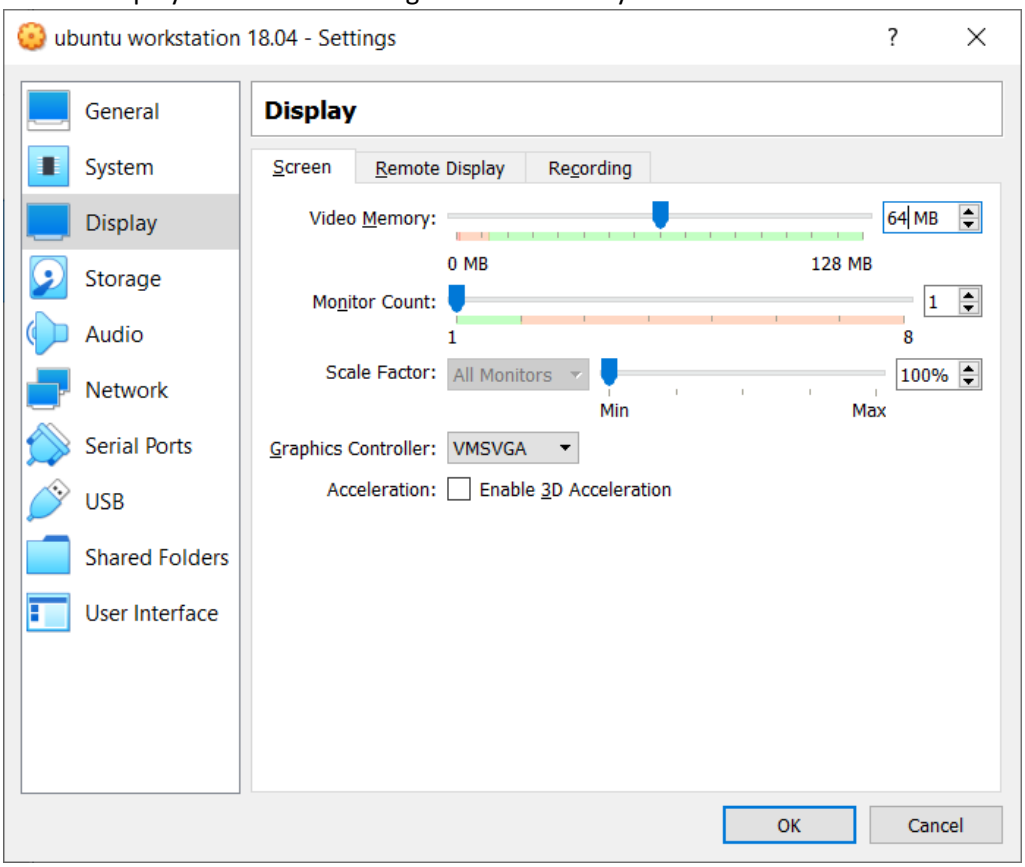
9. Under “System” → “Processor”, increase the value to 2 and selected “Enable PAE/NX”
   Note: you may not have this option as it depends on the type of actual CPU of your laptop.



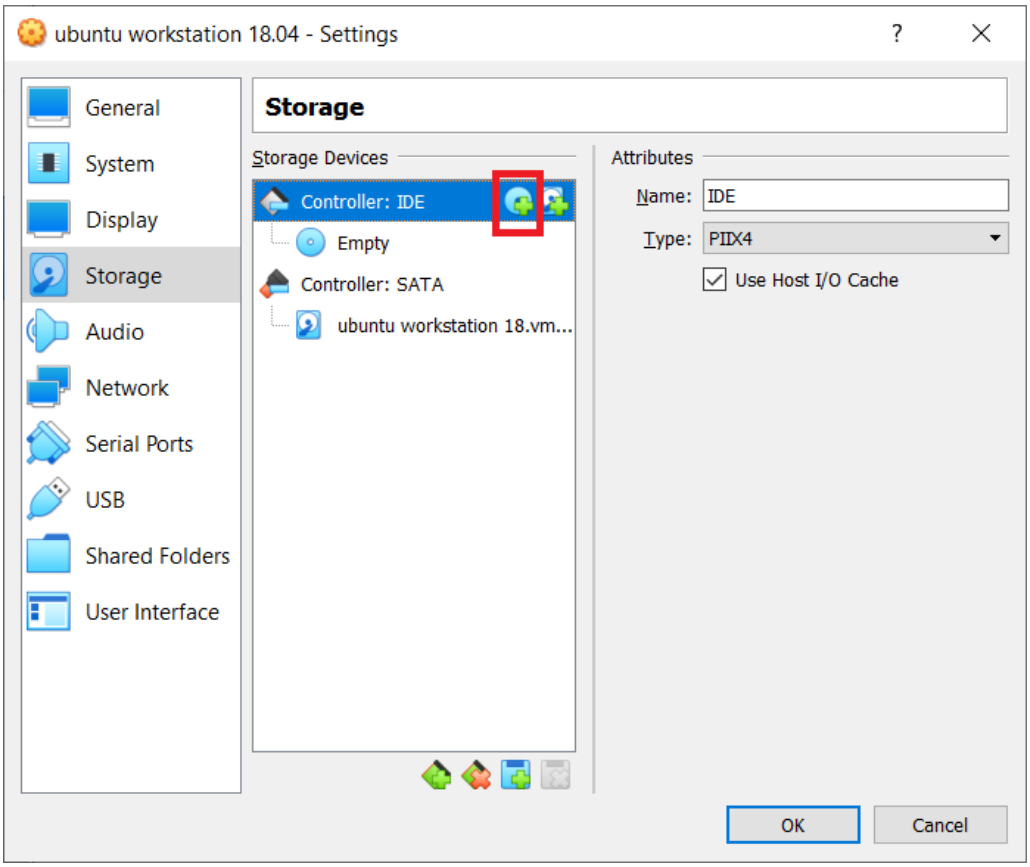
10. Under “System” → “Acceleration” check the “Enable Nested Paging” if it is not enabled.
    Note: you may not have this option as it depends on the type of actual CPU of your laptop.



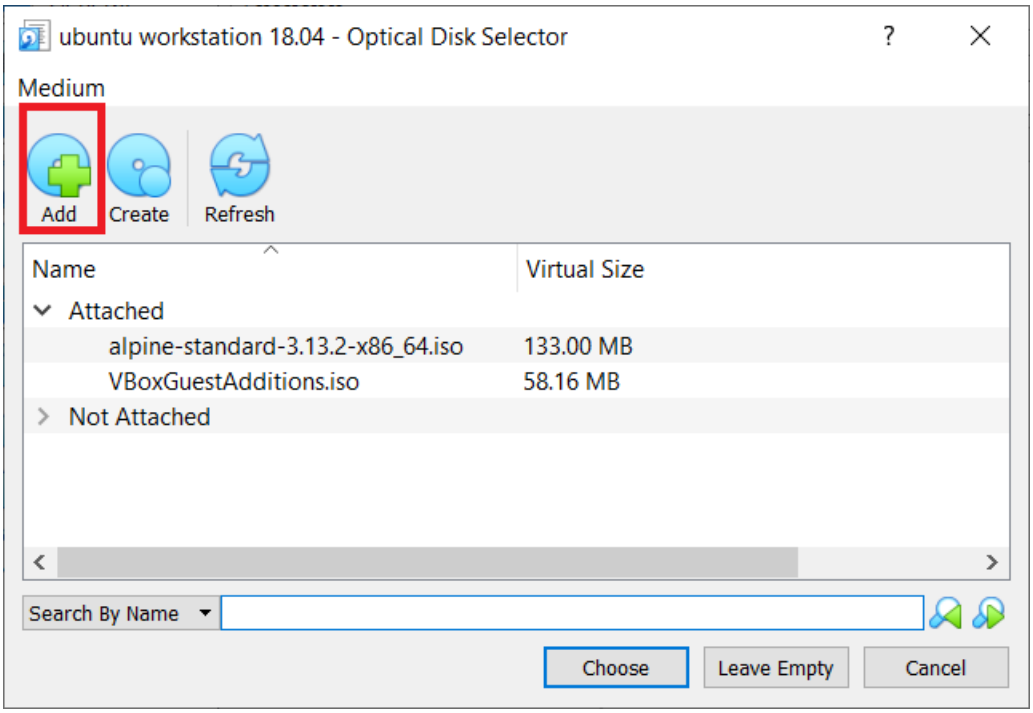
11. Under “Display” → “Screen” changed video memory to 64 MB.



12. Under “Storage” → “Controller: IDE”, click first + sign.

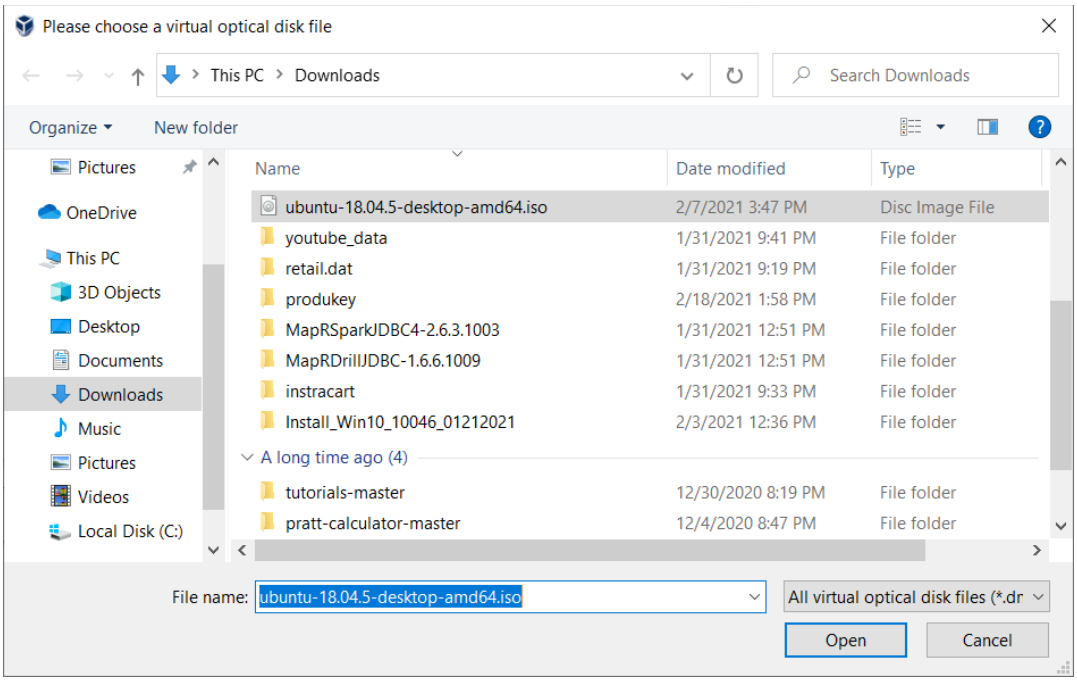


13. Click Add

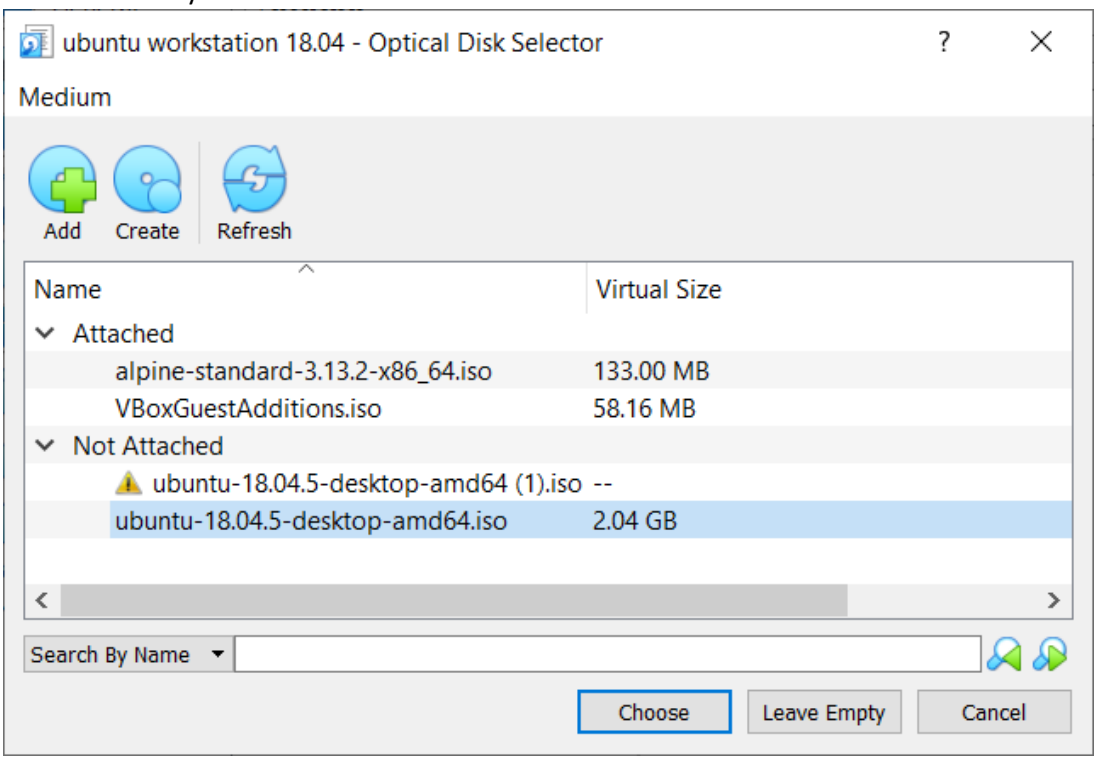


14. Select “ubuntu-18.04.5-desktop-amd64.iso” and then click open. You may have to navigate to the location where the ubuntu file was saved (from Step 1).

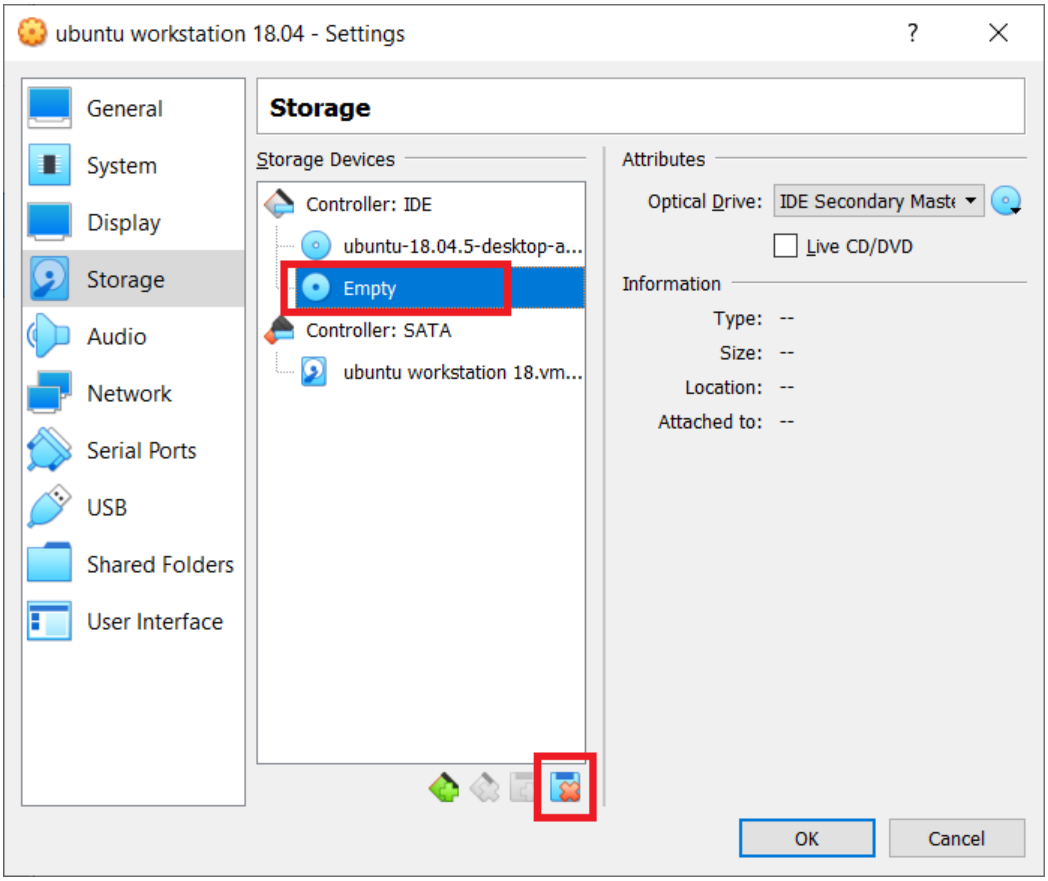
    If you don’t see the file then re-download it using instructions from Step1.



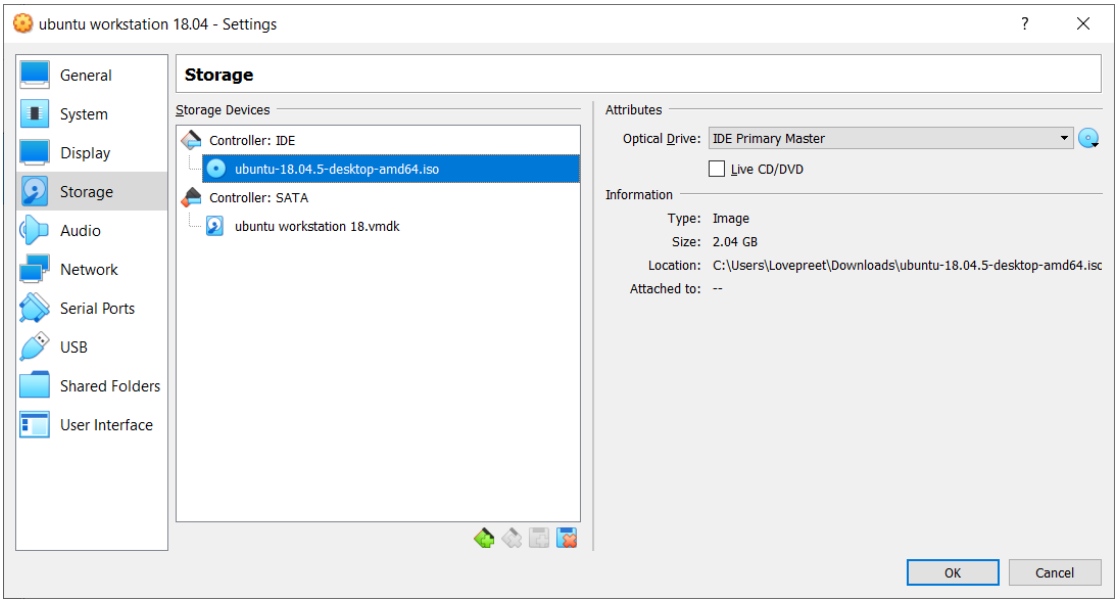
15. Select the newly created disk and click choose



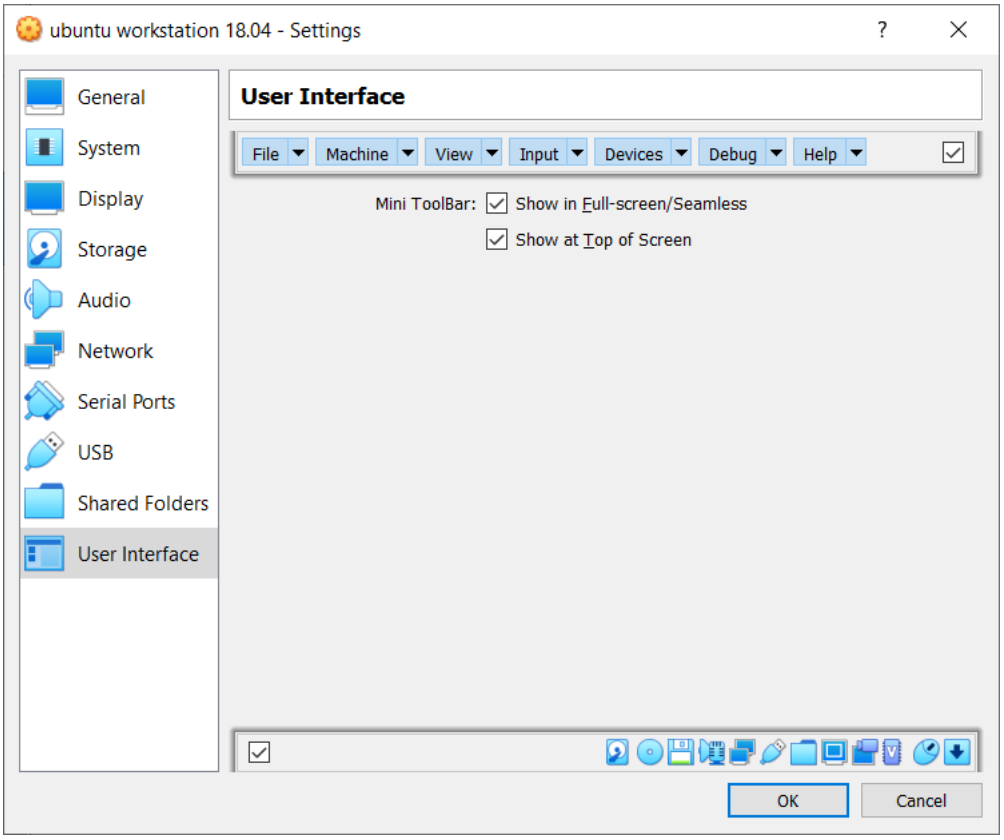
16. Click on the Empty disk and then delete it.



17. Your final storage config should look like following screen.



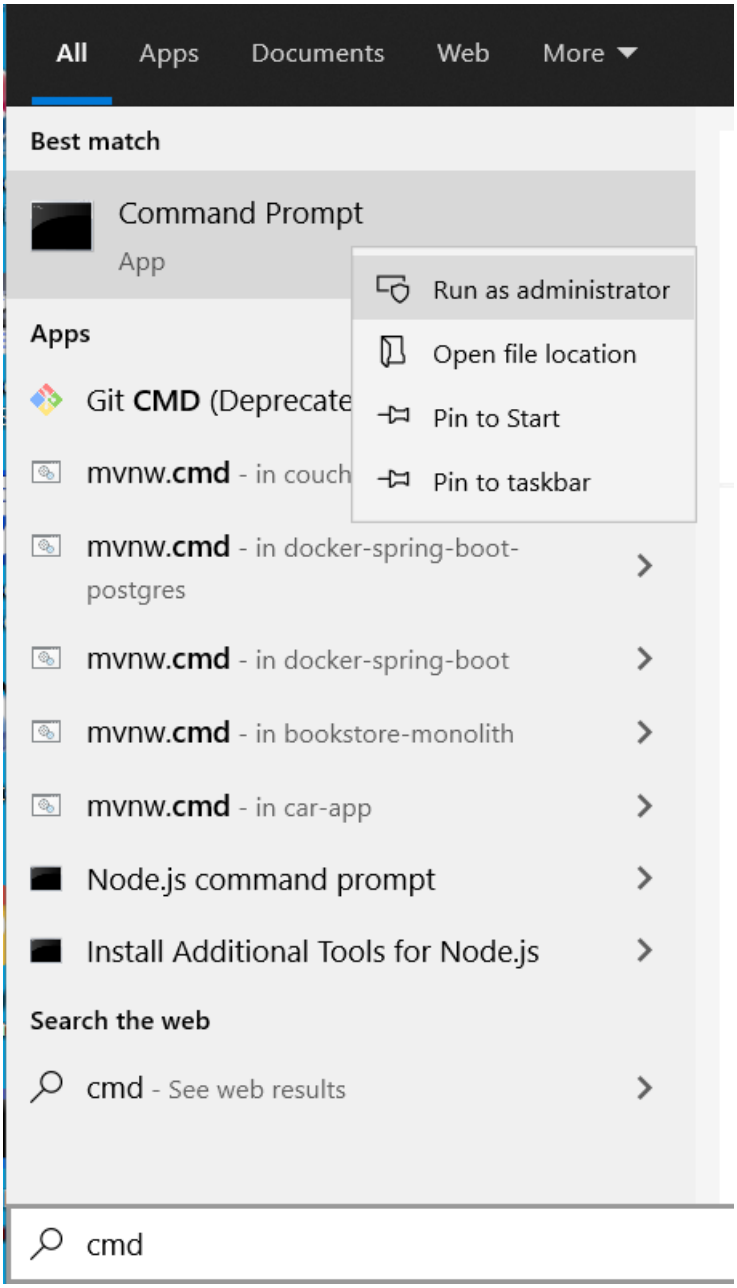
18. Under "User Interface", select "Show at Top of Screen" and then click OK at the bottom.



19. If you are a macOS/Apple user then skip to step 26, windows users should continue with the following steps.

20. At this point, close or exit out of VritualBox completely.

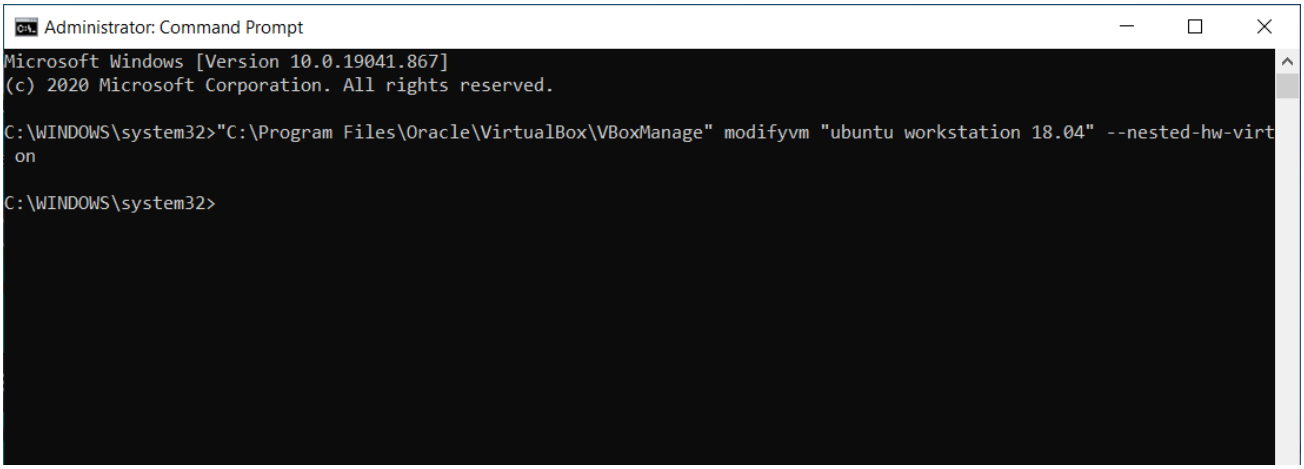
21. Next, click "Start" menu button of your Windows and type "cmd"
Right click on "Command Prompt" and click "Run as administrator"



22. Click “Yes” to the “user control” message.

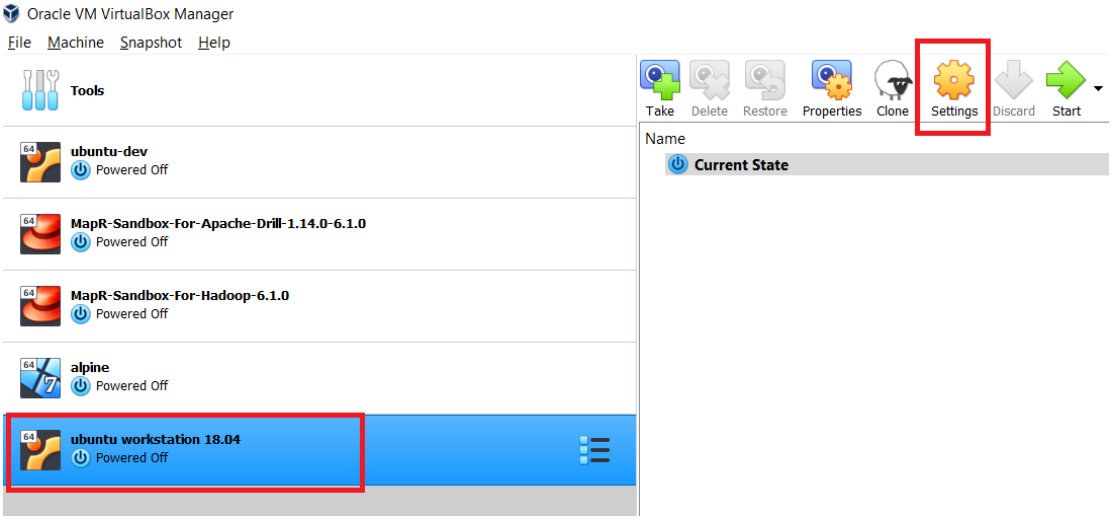
23. Copy and paste the following command to command prompt and hit enter.
    This will enable the hardware virtualization support if available.

    "C:\Program Files\Oracle\VirtualBox\VBoxManage" modifyvm "ubuntu workstation 18.04" --nested-hw-virt on



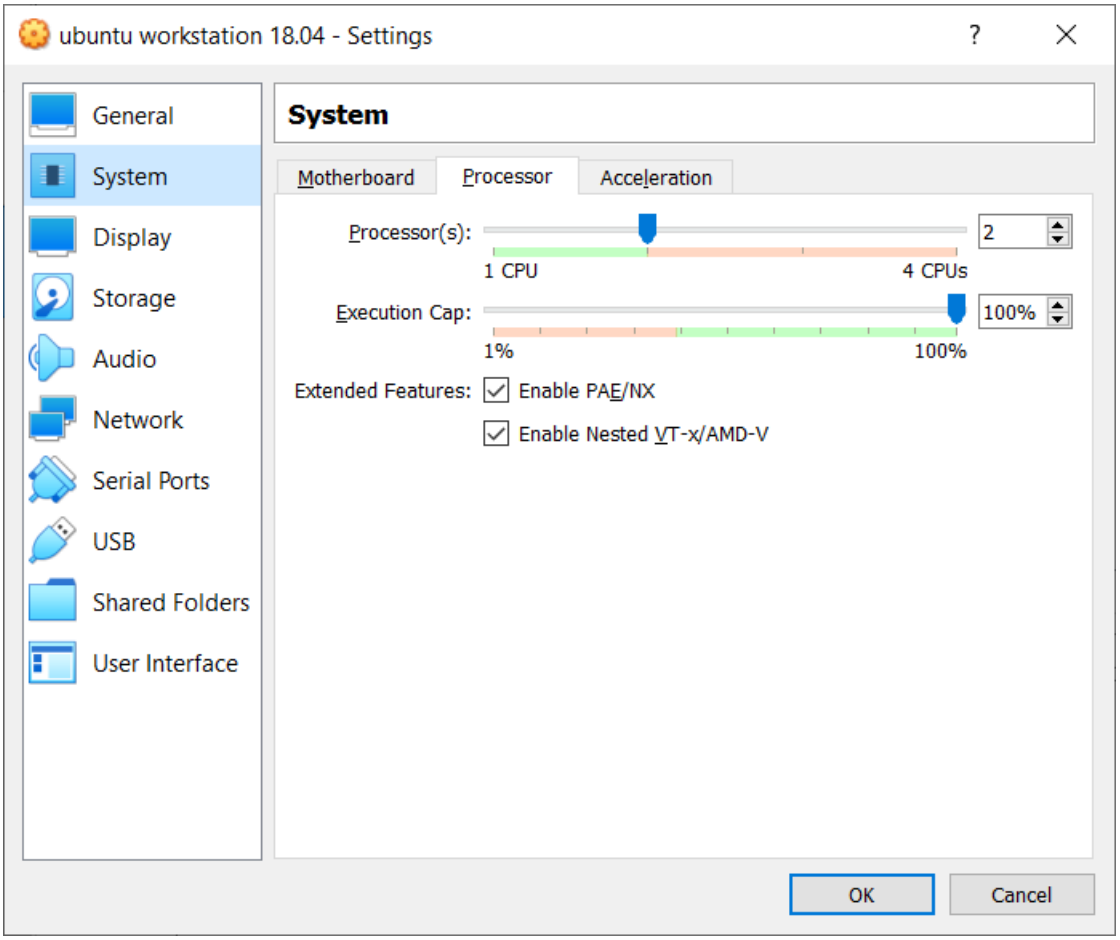
24. Start VirtualBox from Start menu.

25. Select “Ubuntu workstation 18.04” and click settings.

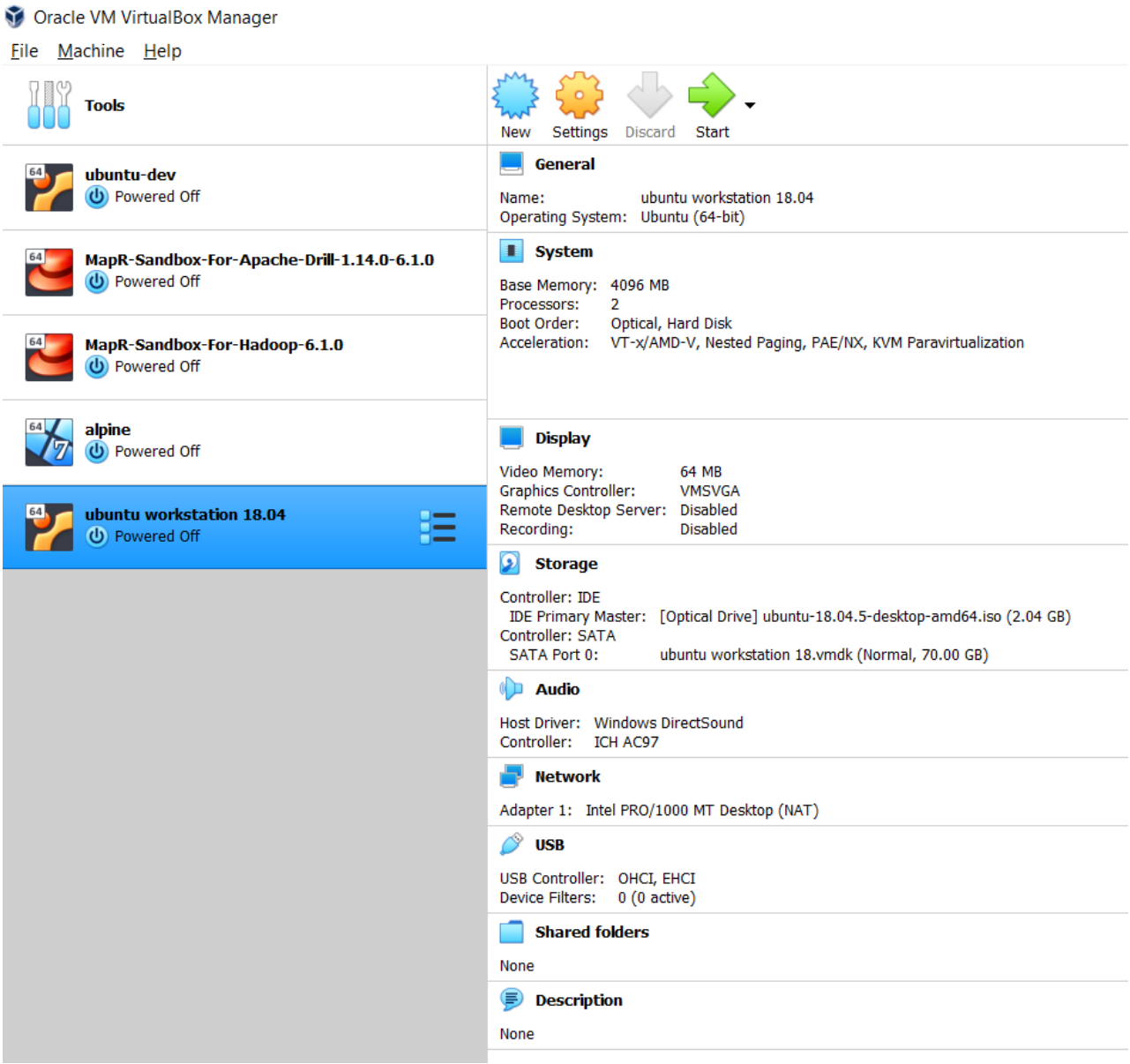


26. Go under “System” → “Processor” and check if “Enable Nested VT-x/AMC-V” is enabled.
    Note: If it is still disabled then your processor does not support this feature so you can ignore it.

    Note: If you are a macOS/Apple user, try to enable this option on the following screen. Ignore it if you can’t enable it.



27. Now your virtual machine is ready. You should see summary similar to the following screen print.



28. Next, we are going to install Ubuntu on this VM using these steps.