

Create a new VM

DISCLAIMER

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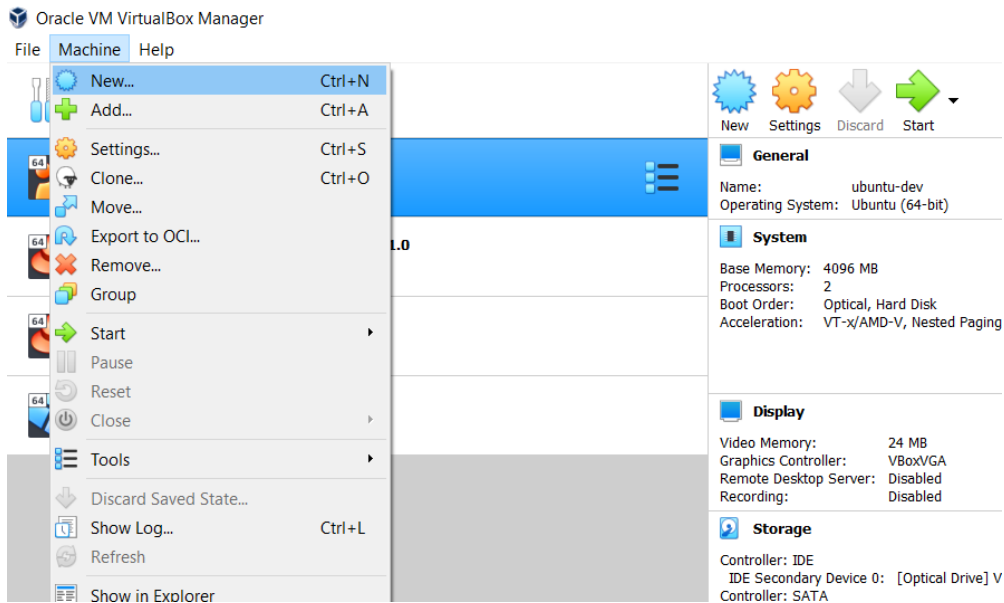
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This disclaimer is also available at the following link.

<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>
2. Start virtual box from start menu.
3. Create a new VM from “Machine” → “New”.

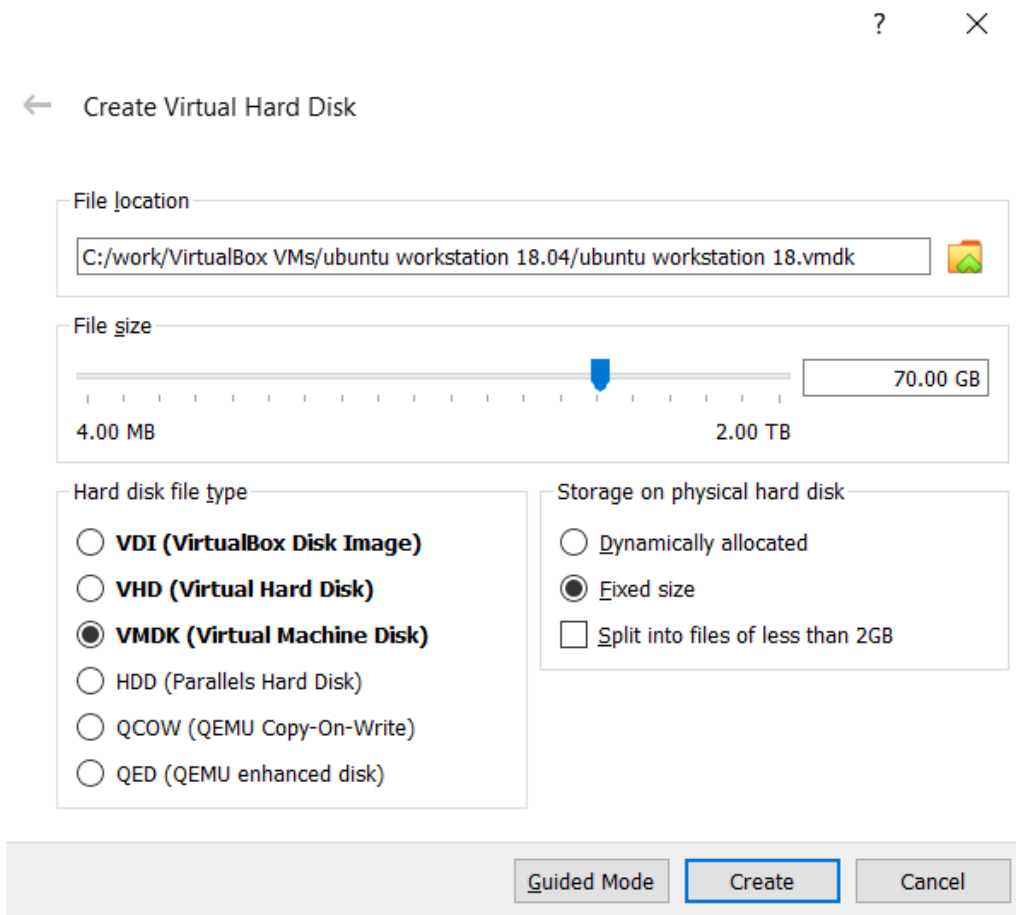


4. Select the following and then click Create.

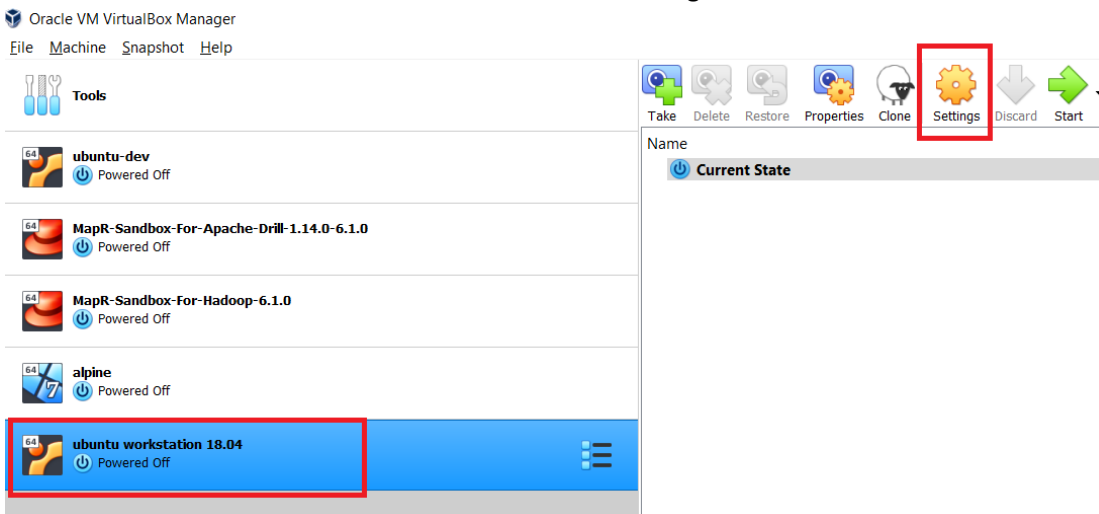
Name: ubuntu workstation 18.04

Machine Folder: C:\work\VirtualBox VMs

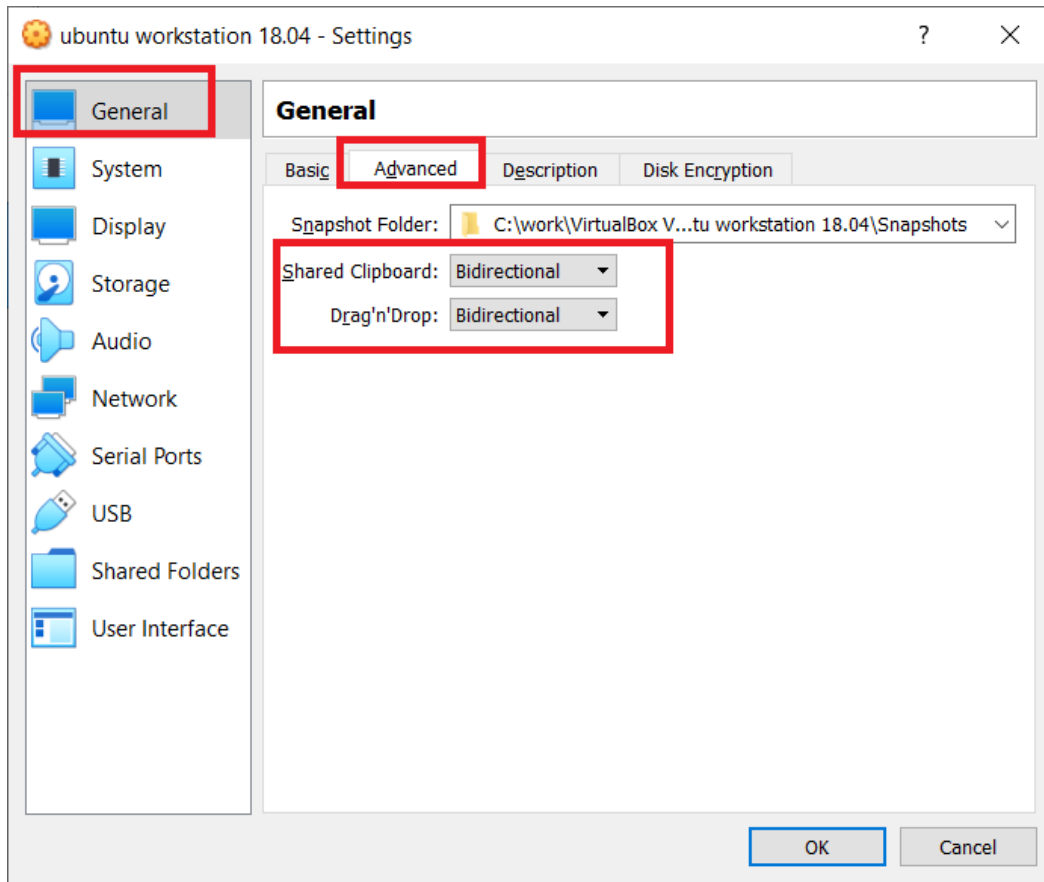
Memory size: 4096



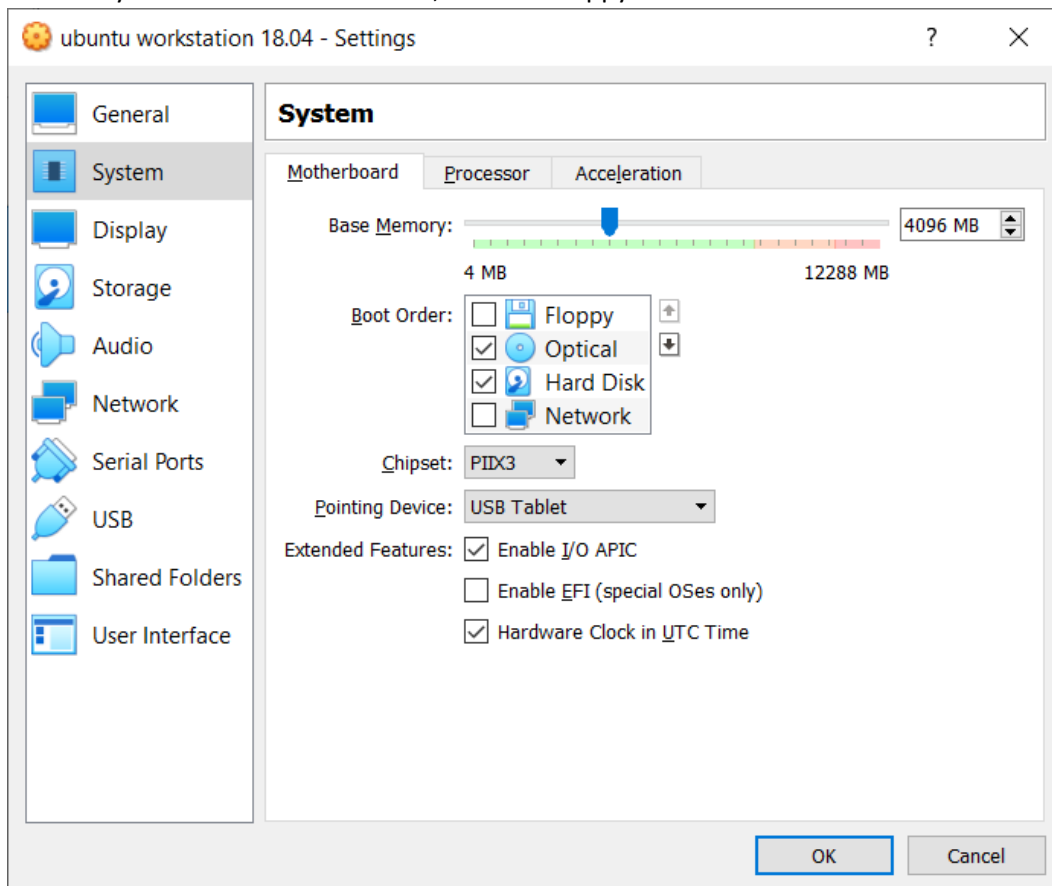
6. You should see a new VM. Click on it and then click settings.



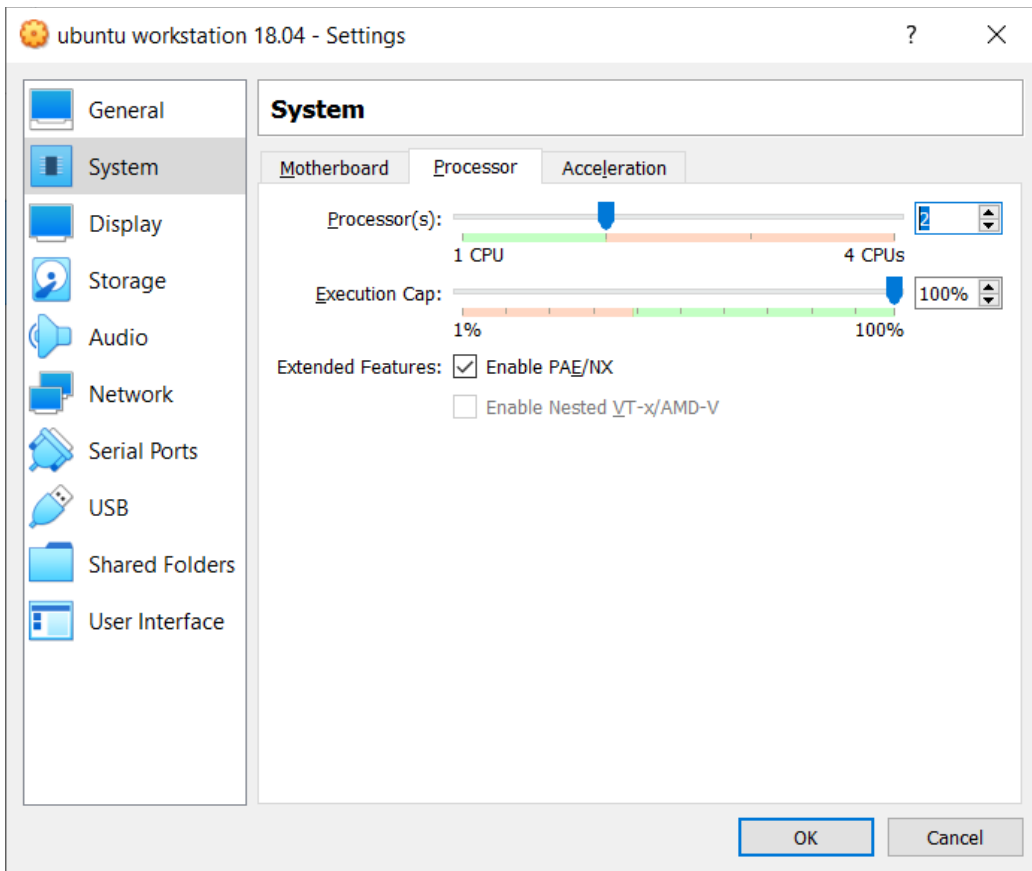
7. Under “General” → “Advanced” select **Bidirectional** if it not already selected.



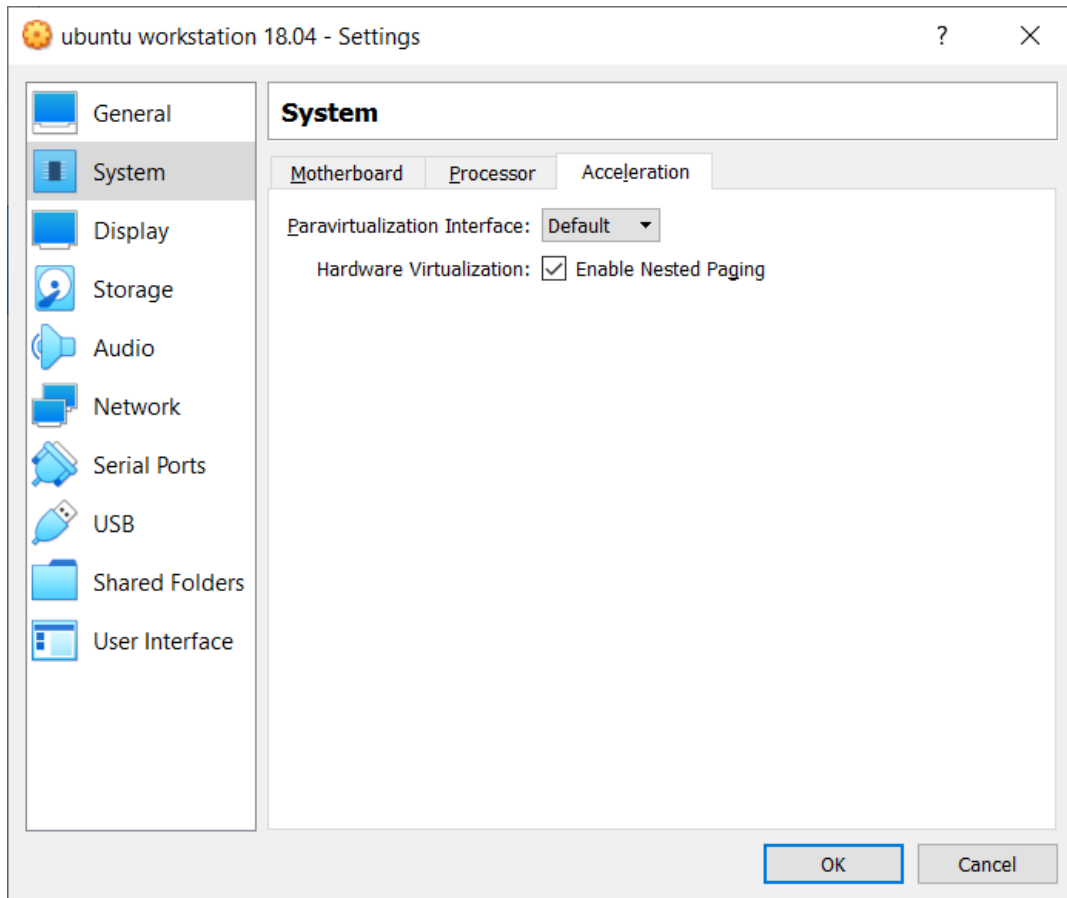
8. Under "System" → "Motherboard", unselect floppy



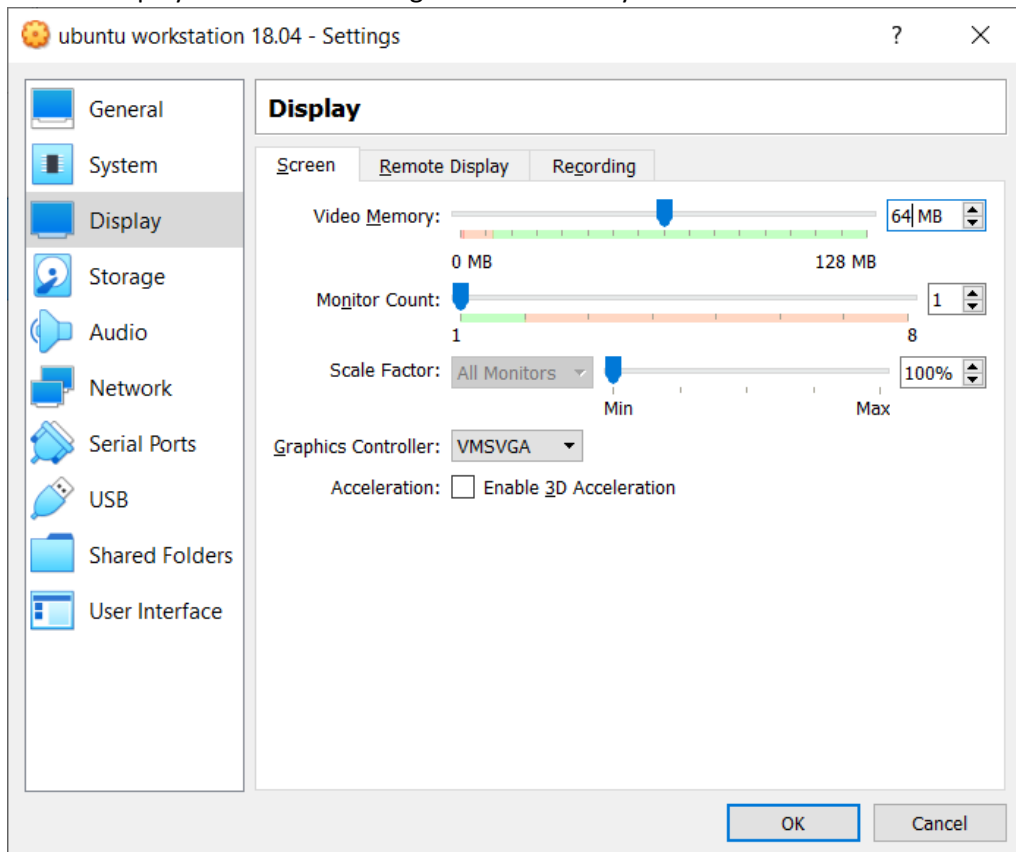
9. Under “System” → “Processor”, increase the value to 2 and selected “Enable PAE/NX”
Note: you may not have this option as it depends on the type of actual CPU of your laptop.



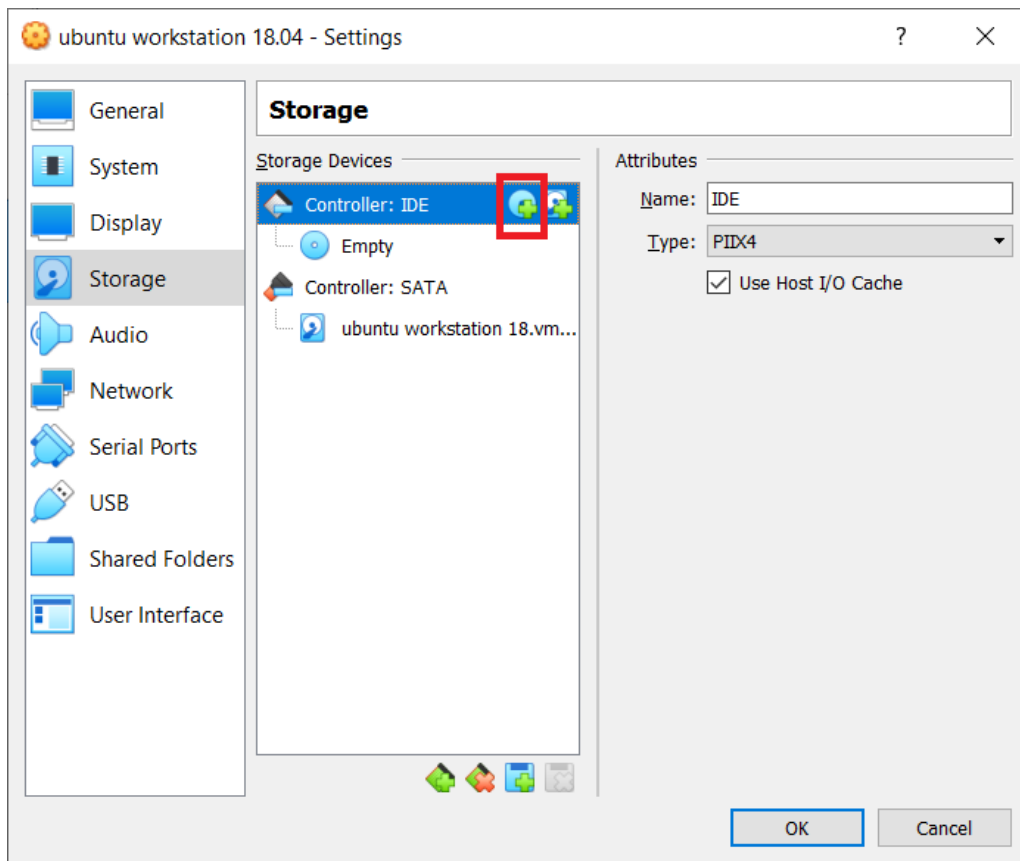
10. Under “System” → “Acceleration” check the “Enable Nested Paging” if it is not enabled.
Note: you may not have this option as it depends on the type of actual CPU of your laptop.



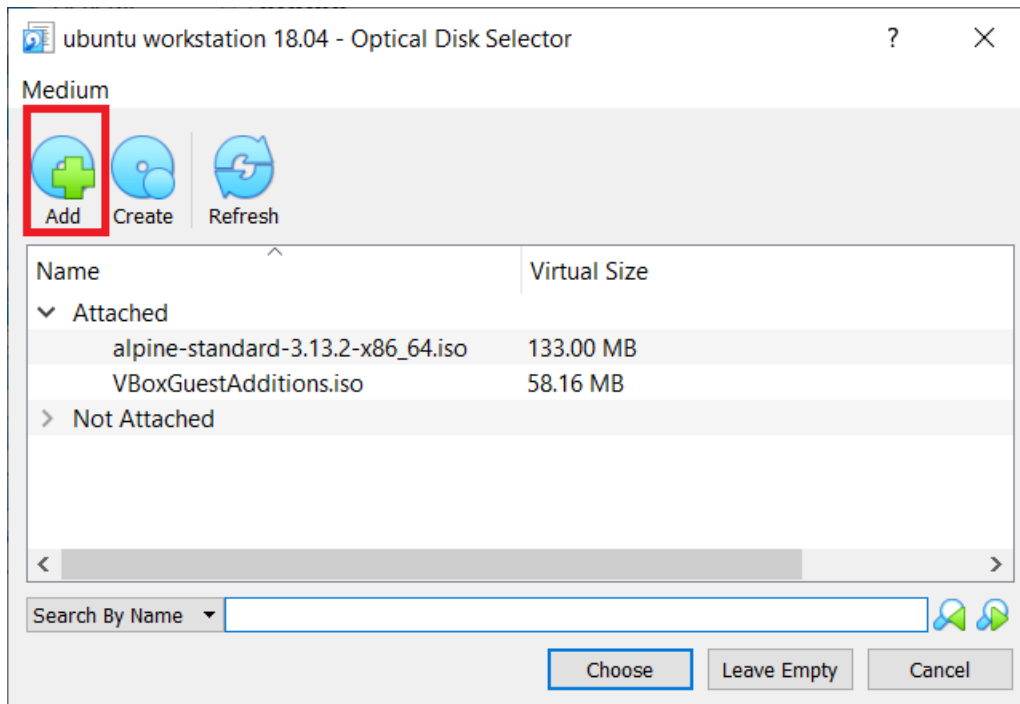
11. Under “Display” → “Screen” changed video memory to 64 MB.



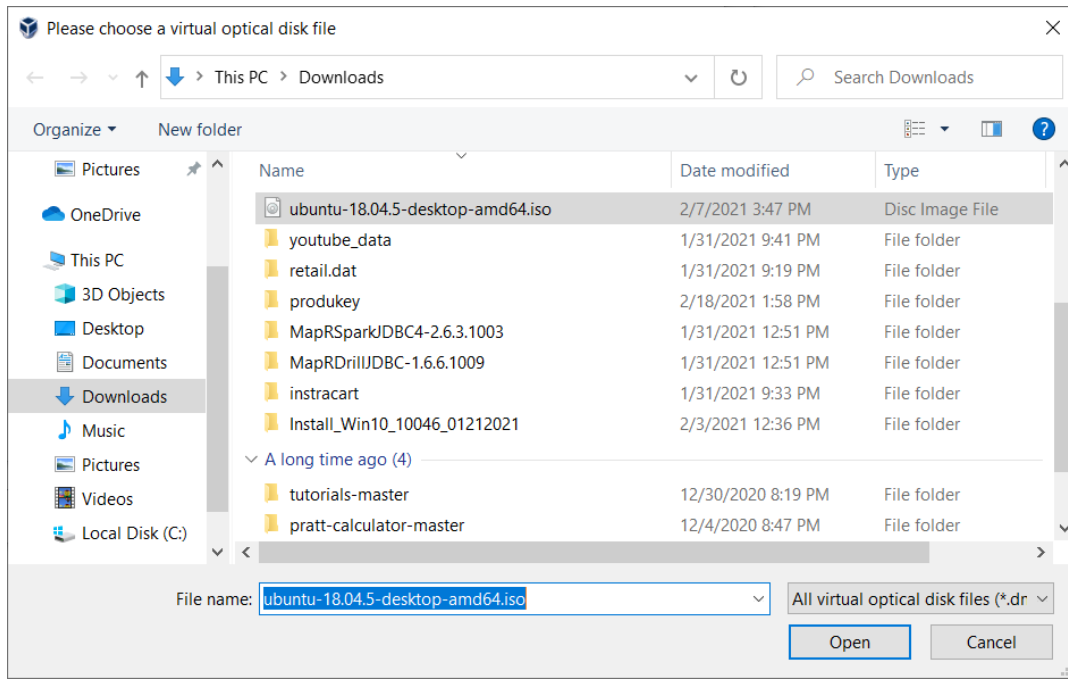
12. Under “Storage” → “Controller: IDE”, click first + sign.



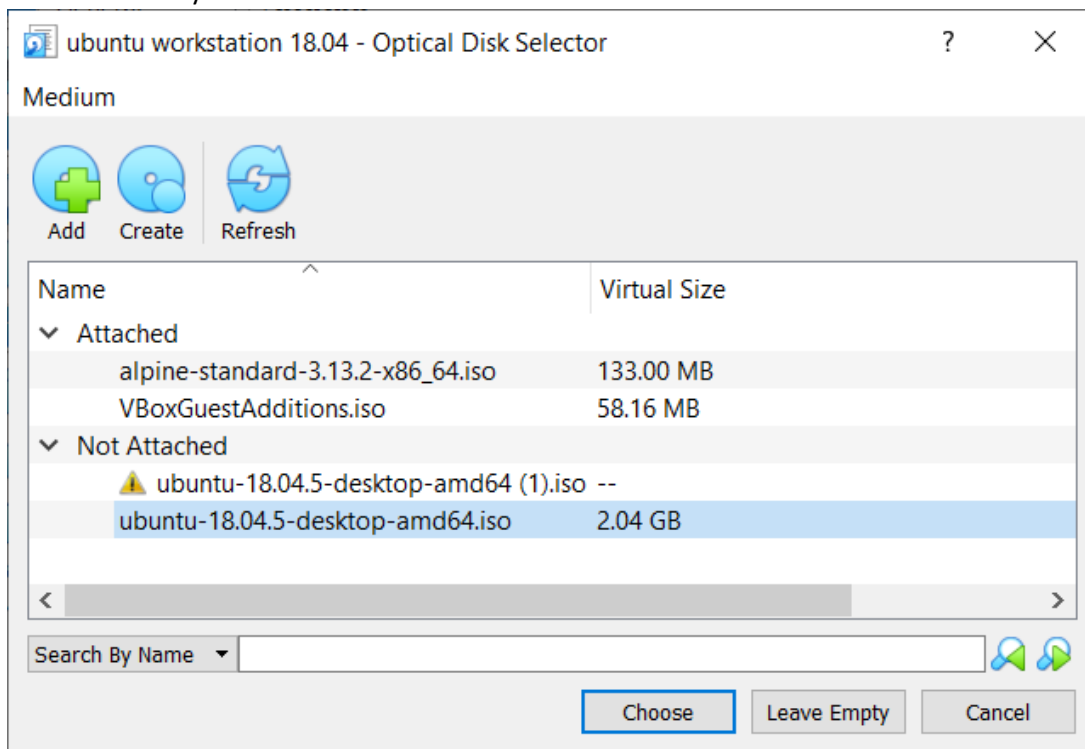
13. Click Add



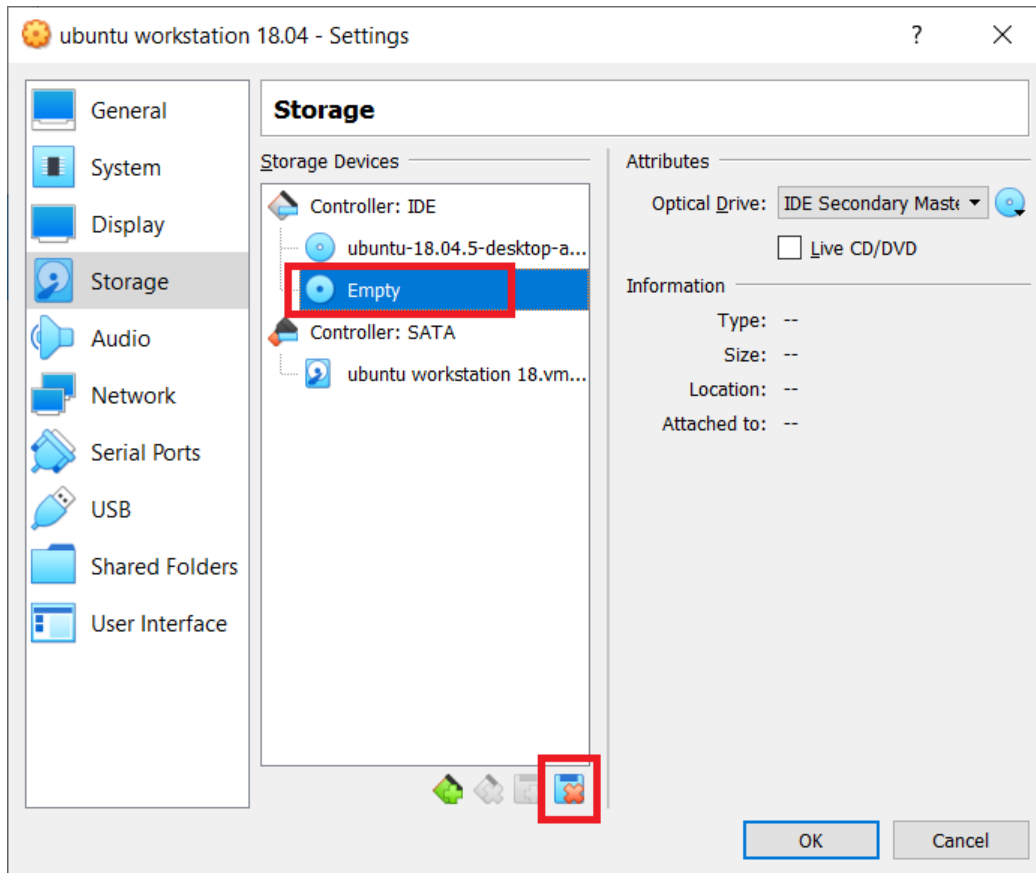
14. Select “ubuntu-18.04.5-desktop-amd64.iso” and then click open.



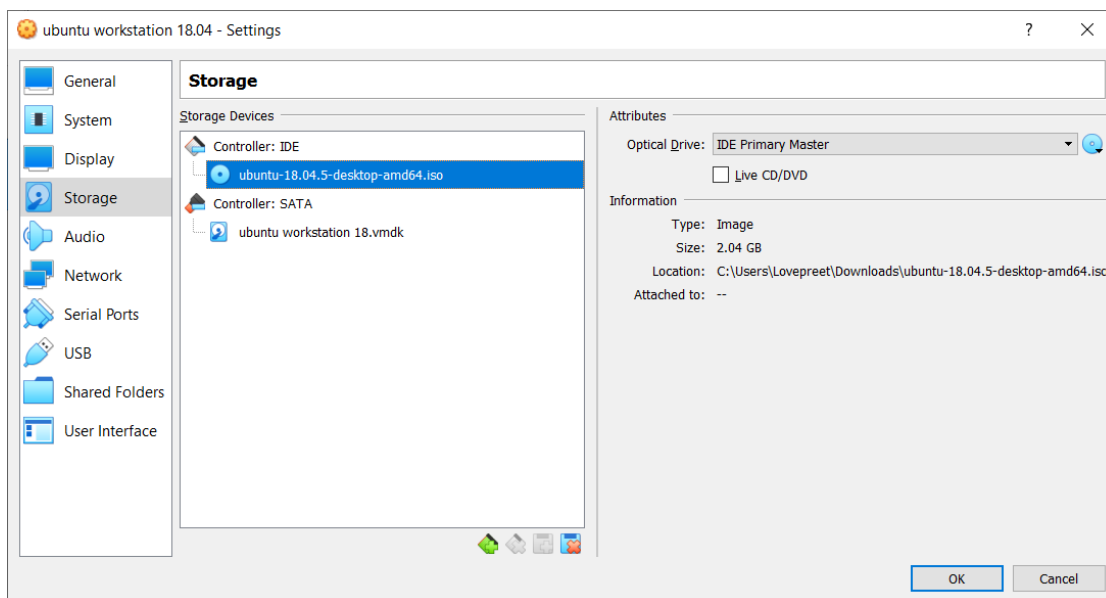
15. Select the newly created disk and click choose



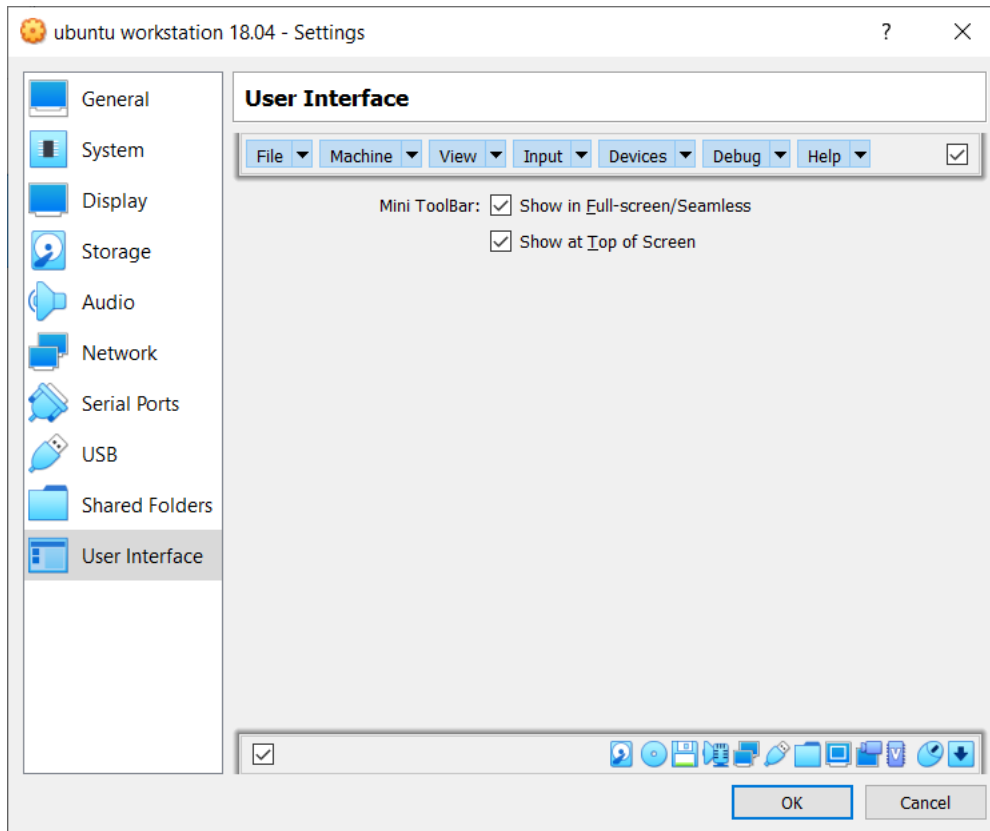
16. Click on the Empty disk and then delete it.



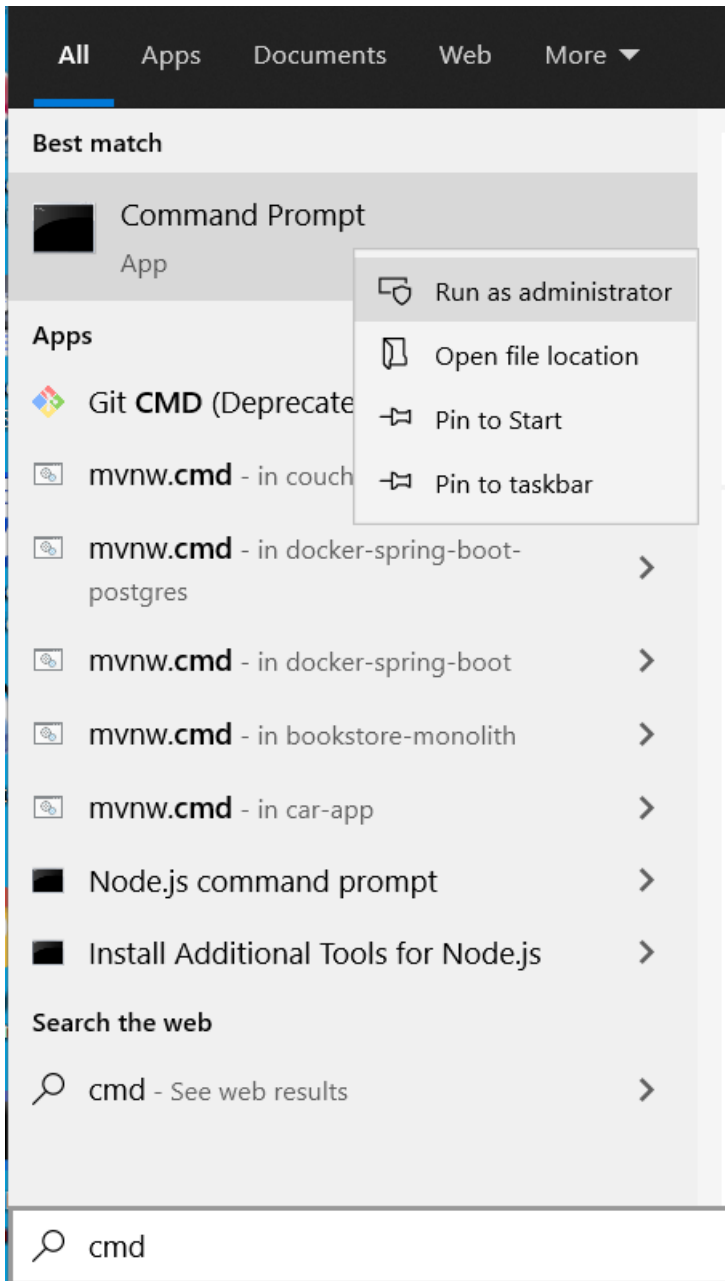
17. Your final storage config should look like following screen.



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 VirtualBox 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
```

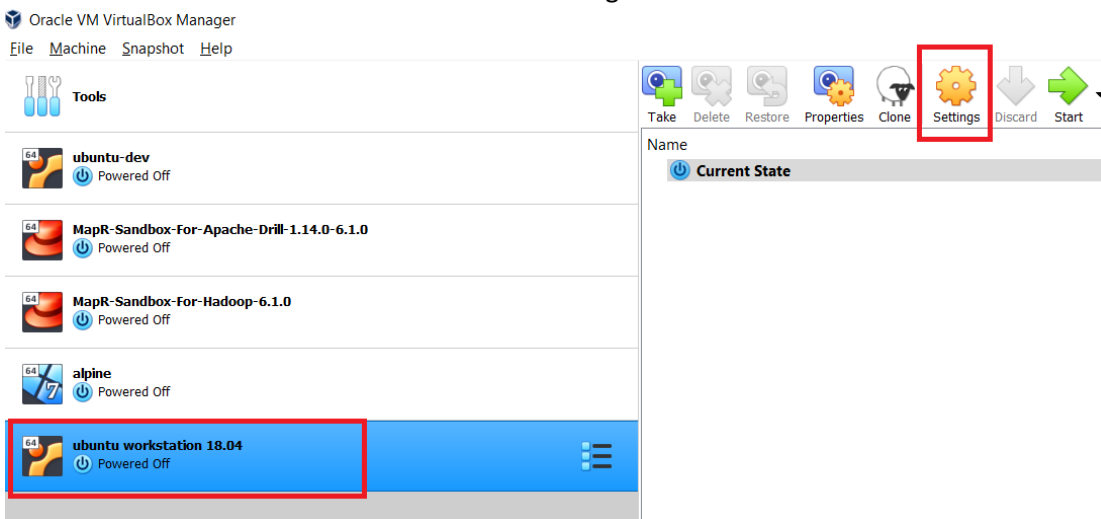
```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>"C:\Program Files\Oracle\VirtualBox\VBoxManage" modifyvm "ubuntu workstation 18.04" --nested-hw-virt
on

C:\WINDOWS\system32>
```

24. Start VirtualBox from Start menu.

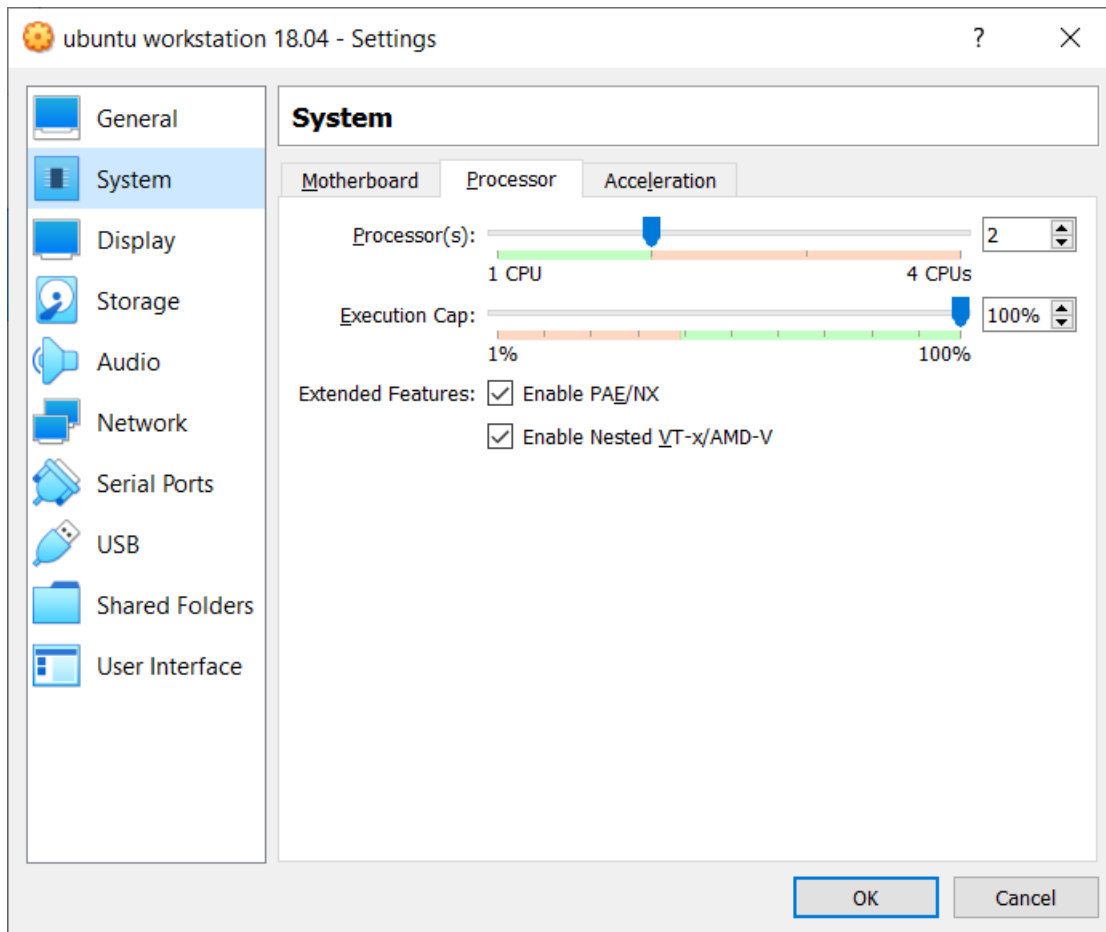
25. Select “Ubuntu workstation 18.04” and click settings.


















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.

 Tools	    New Settings Discard Start
 ubuntu-dev  Powered Off	General Name: ubuntu workstation 18.04 Operating System: Ubuntu (64-bit)
 MapR-Sandbox-For-Apache-Drill-1.14.0-6.1.0  Powered Off	System Base Memory: 4096 MB Processors: 2 Boot Order: Optical, Hard Disk Acceleration: VT-x/AMD-V, Nested Paging, PAE/NX, KVM Paravirtualization
 MapR-Sandbox-For-Hadoop-6.1.0  Powered Off	
 alpine  Powered Off	Display Video Memory: 64 MB Graphics Controller: VMSVGA Remote Desktop Server: Disabled Recording: Disabled
 ubuntu workstation 18.04  Powered Off	Storage Controller: IDE IDE Primary Master: [Optical Drive] ubuntu-18.04.5-desktop-amd64.iso (2.04 GB) Controller: SATA SATA Port 0: ubuntu workstation 18.vmdk (Normal, 70.00 GB)
	Audio Host Driver: Windows DirectSound Controller: ICH AC97
	Network Adapter 1: Intel PRO/1000 MT Desktop (NAT)
	USB USB Controller: OHCI, EHCI Device Filters: 0 (0 active)
	Shared folders None
	Description None

28. Next, we are going to install Ubuntu on this VM using [these steps](#).