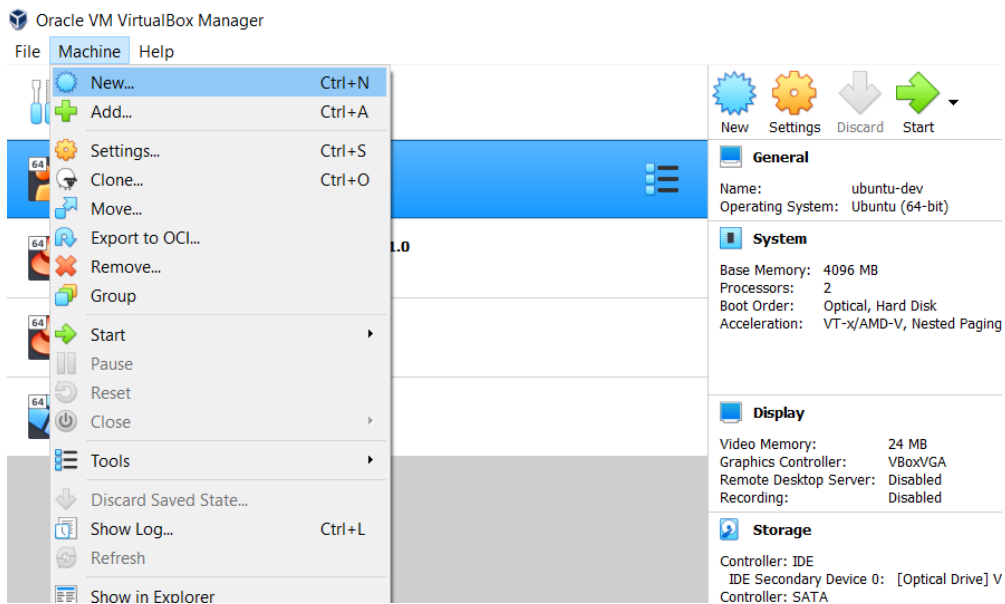


# Create a new VM

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

## ← Create Virtual Machine

Name and operating system

Name:

Machine Folder:

Type:

Version:

Memory size

4096 MB

4 MB 12288 MB

Hard disk

☐ Do not add a virtual hard disk

☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

Guided Mode

Create

Cancel

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.

? X

## ← Create Virtual Hard Disk

File location

C:/work/VirtualBox VMs/ubuntu workstation 18.04/ubuntu workstation 18.vmdk

File size

4.00 MB 70.00 GB 2.00 TB

Hard disk file type

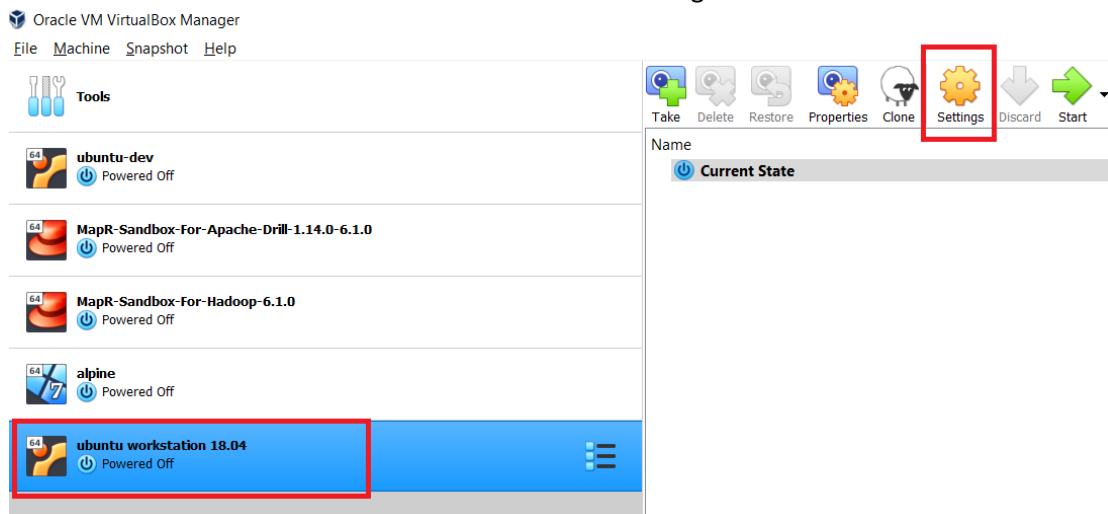
- ☐ VDI (VirtualBox Disk Image)
- ☐ VHD (Virtual Hard Disk)
- ☒ VMDK (Virtual Machine Disk)
- ☐ HDD (Parallels Hard Disk)
- ☐ QCOW (QEMU Copy-On-Write)
- ☐ QED (QEMU enhanced disk)

Storage on physical hard disk

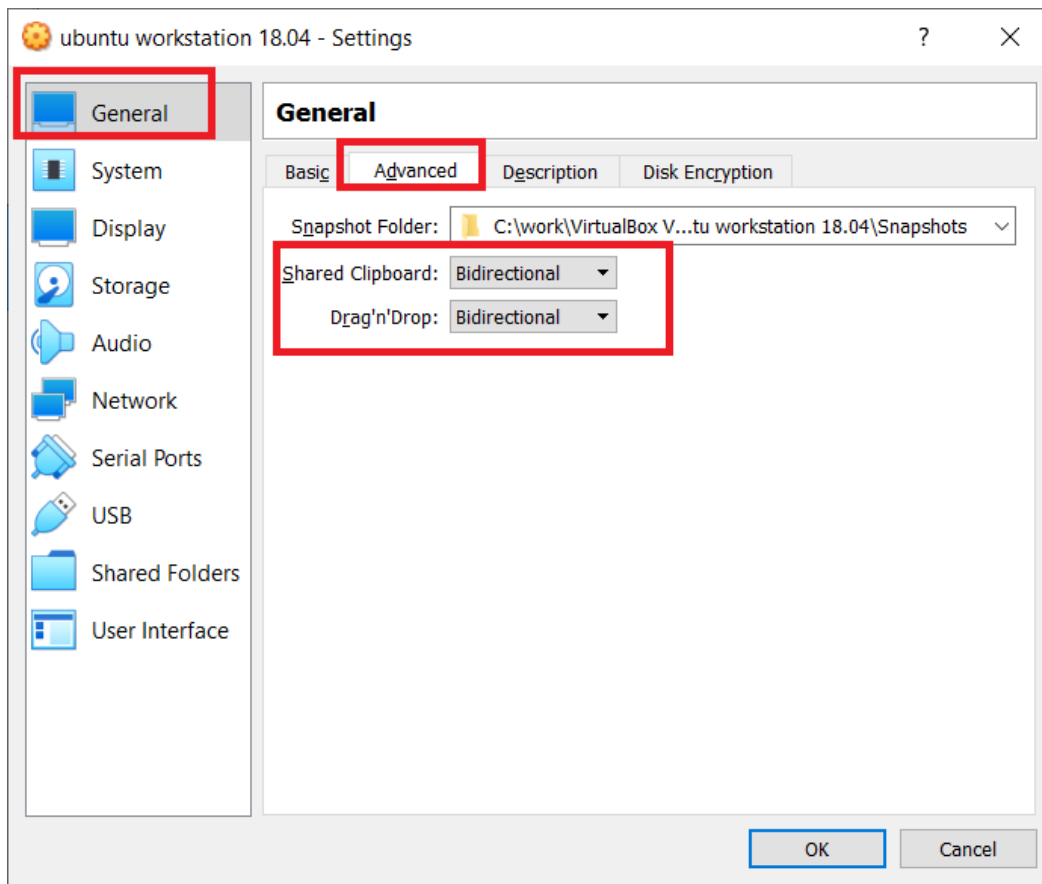
- ☐ Dynamically allocated
- ☒ Fixed size
- ☐ Split into files of less than 2GB

Guided Mode Create Cancel

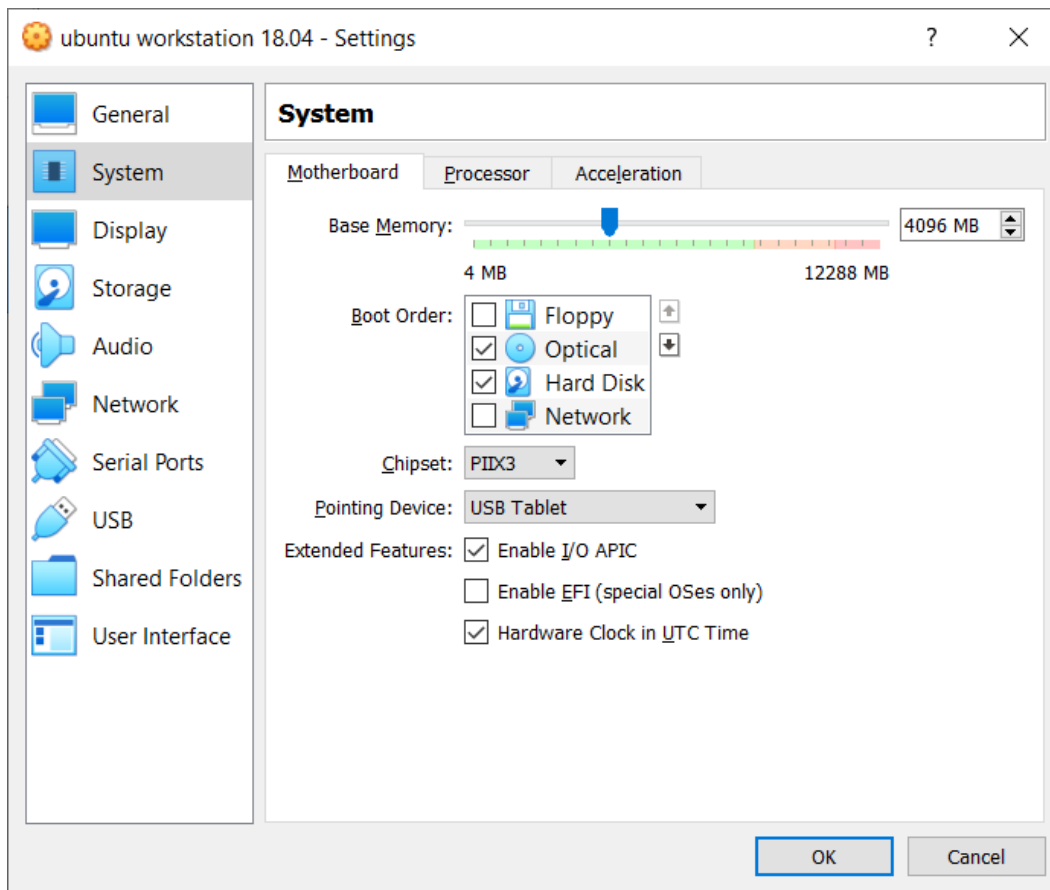
6. You should see a new VM. Click on it and then click settings.



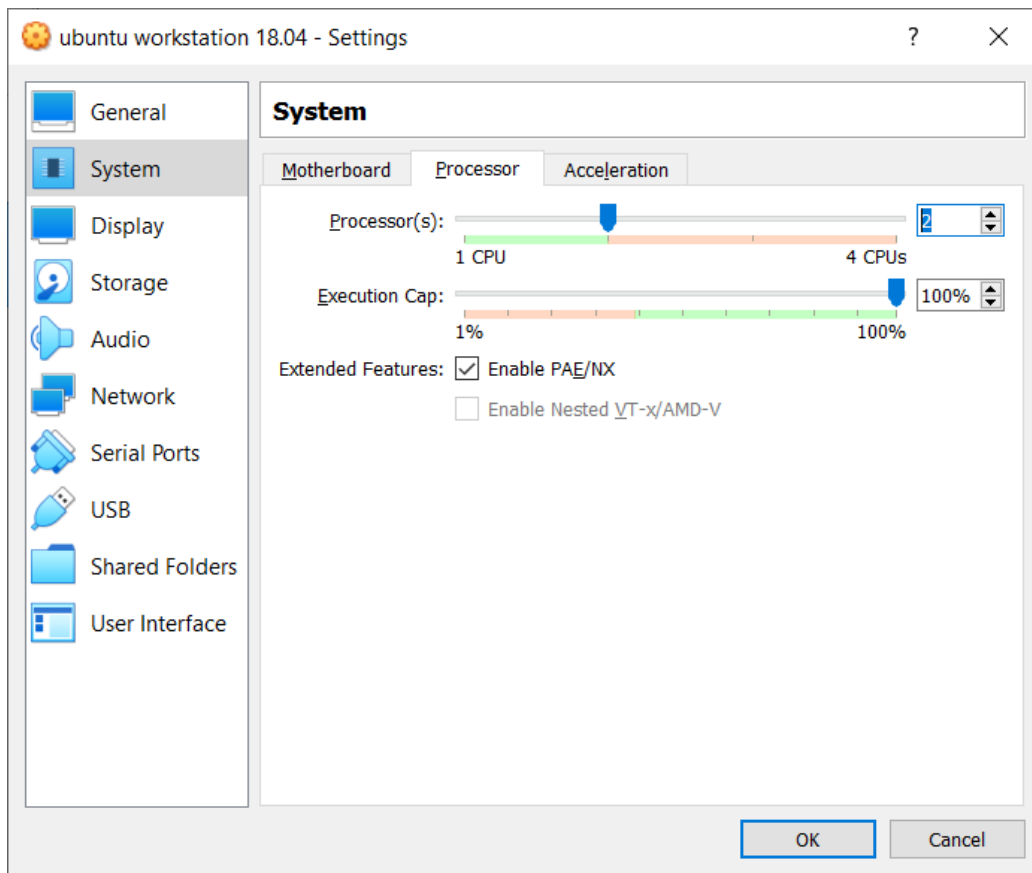
7. Under “General” > “Advanced” select **Bidirectional** if it not already selected.



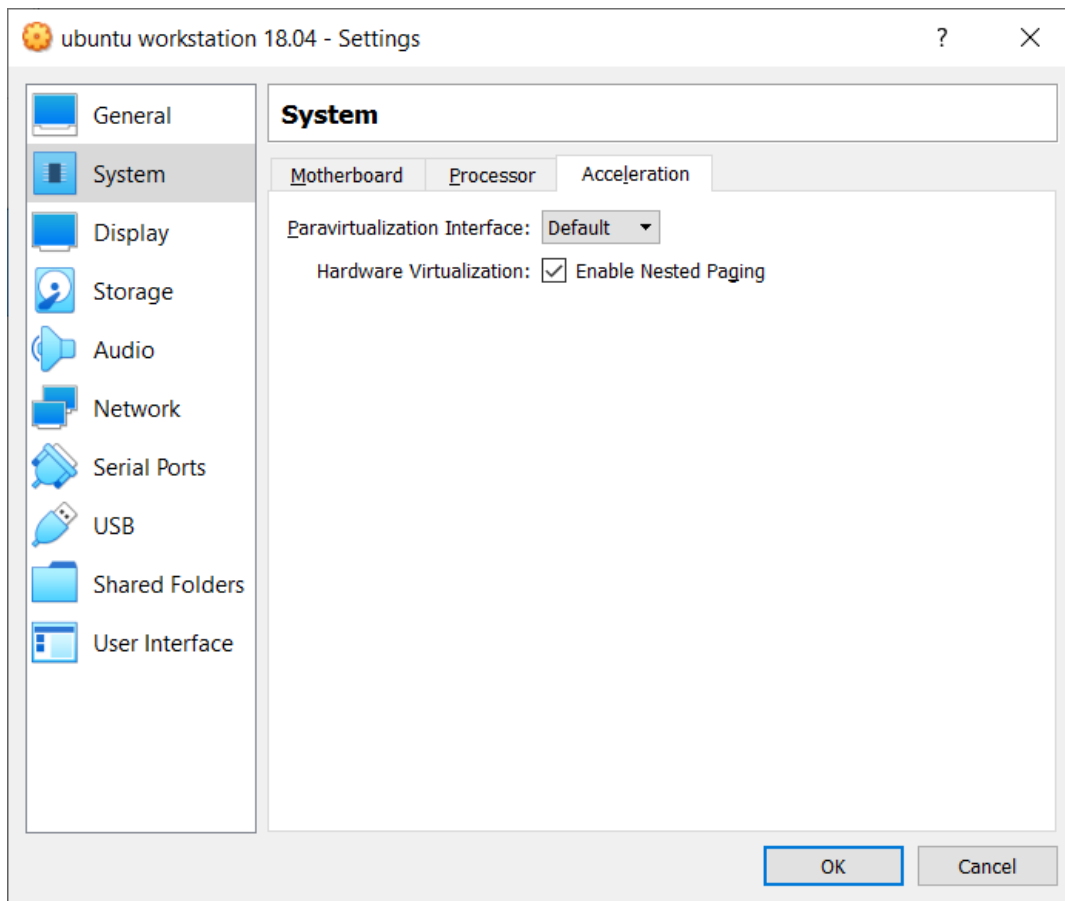
8. Under "System" > Motherboard, unselect floppy



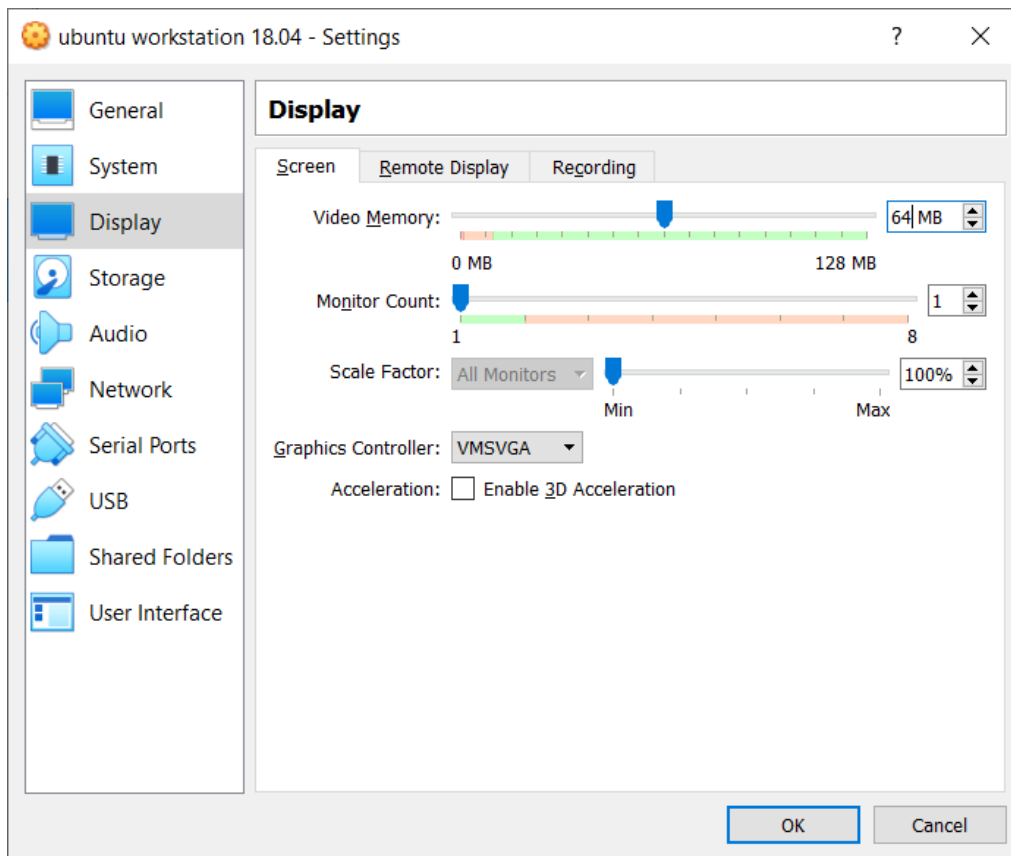
9. Under “System” > “Processor”, increase the value to 2 and selected “Enable PAE/NX”  
Note: you may not have this option as it depends on the type of actual CPU of your laptop.



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.

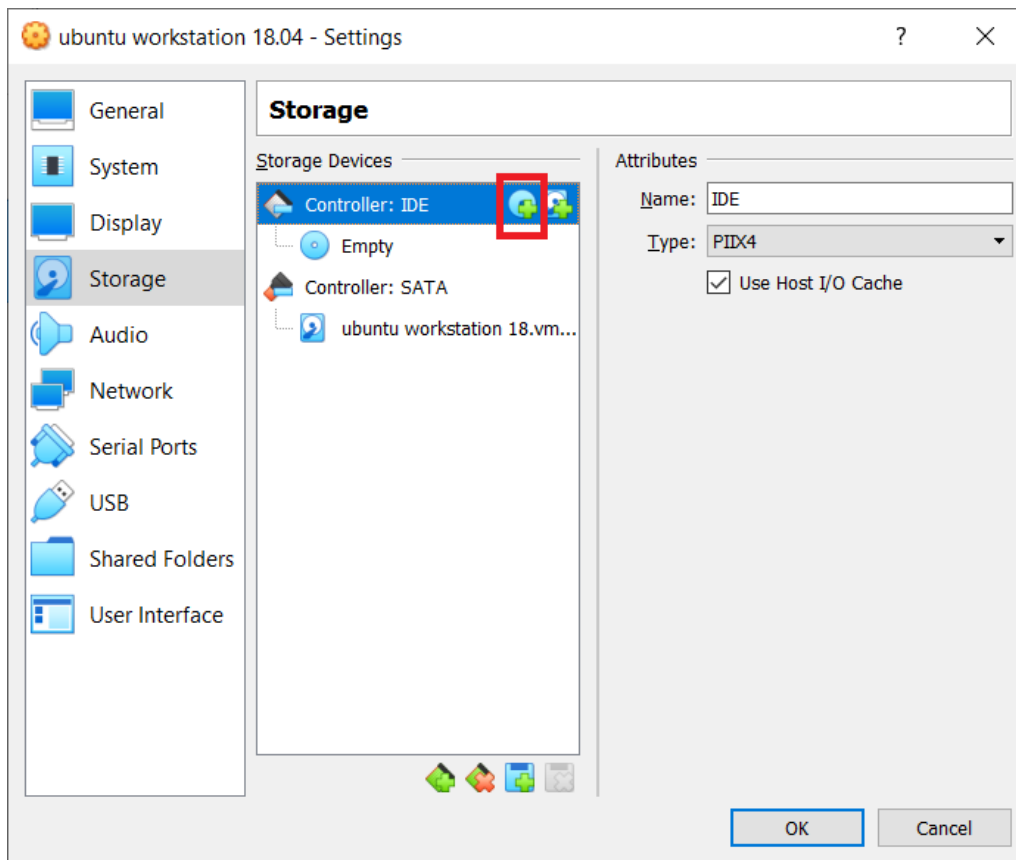


11. Under "Display" > "Screen" changed video memory to 64 MB.

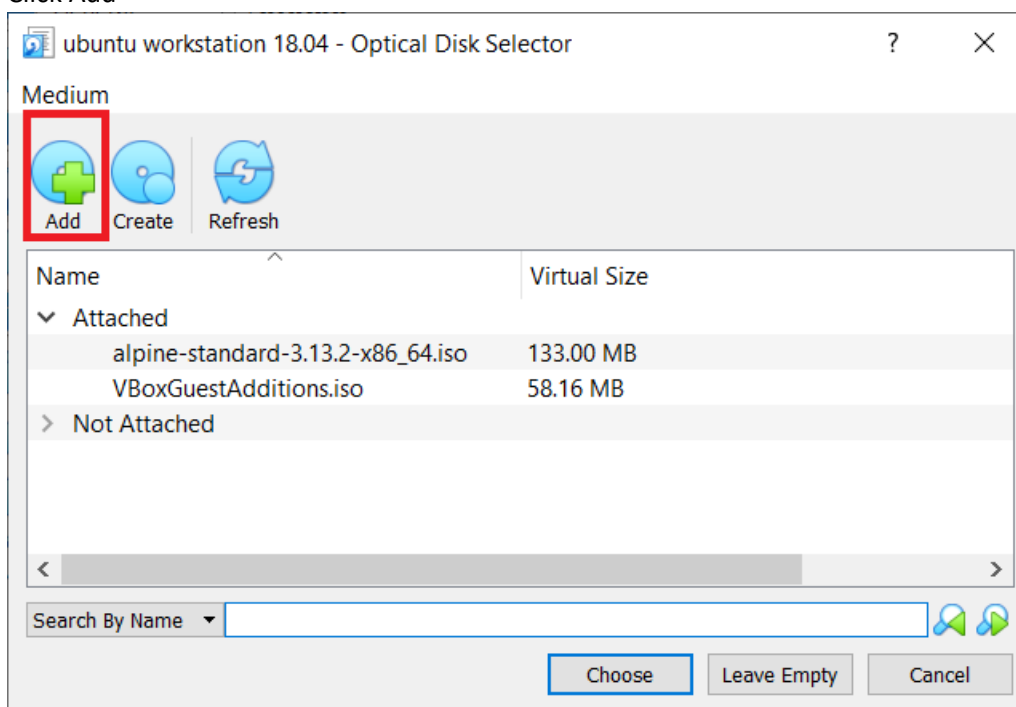


12. Under "Storage" > "Controller: IDE", click first + sign.

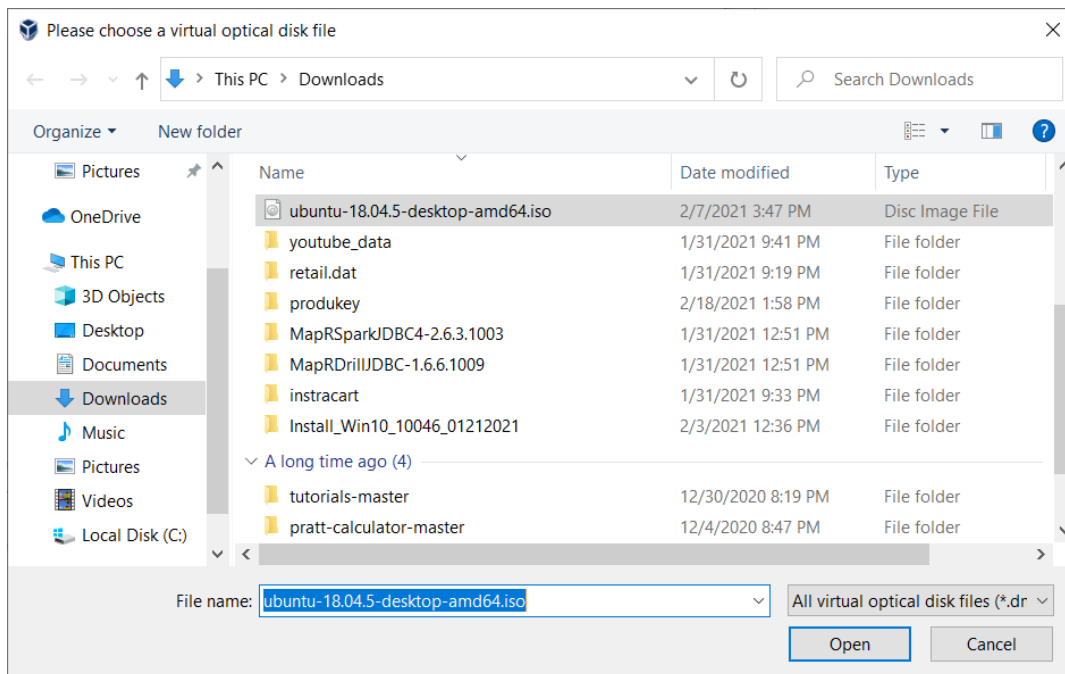




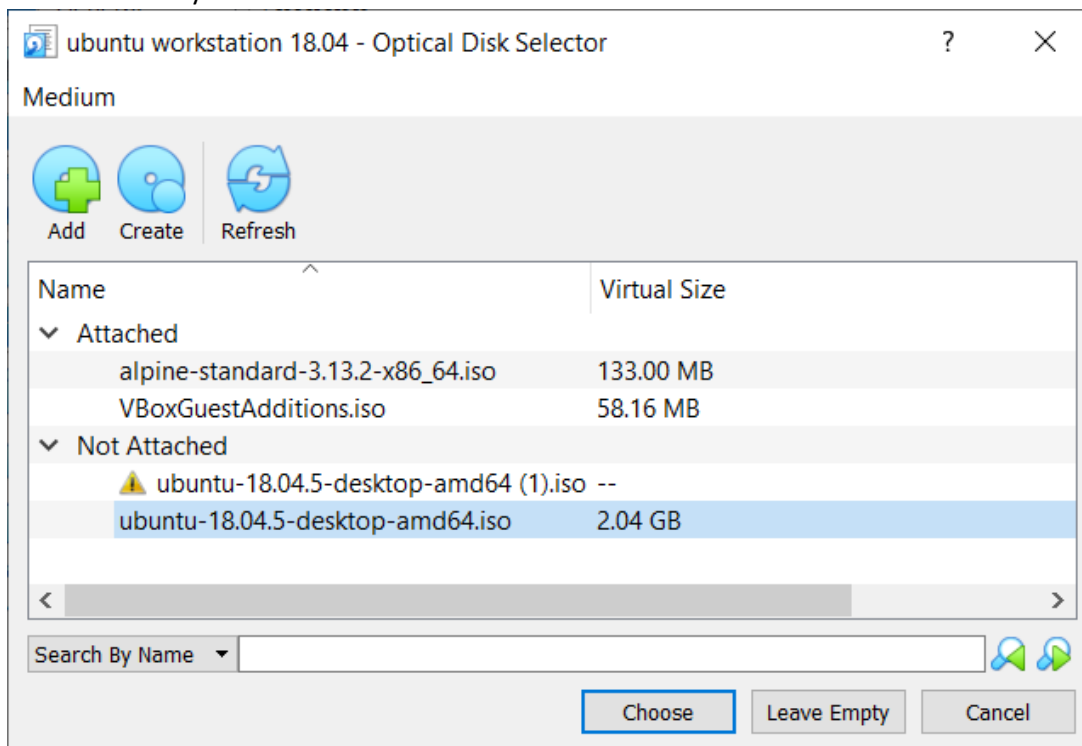
13. Click Add



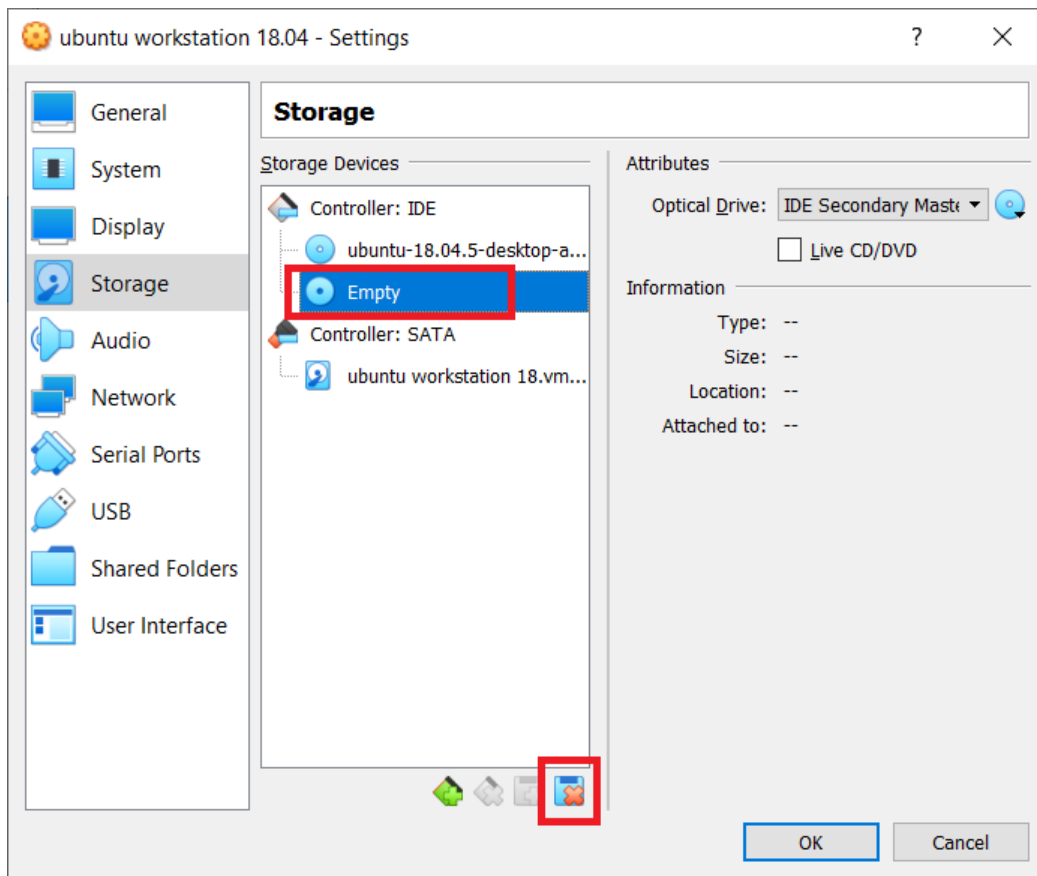
14. Select "ubuntu-18.04.5-desktop-amd64.iso" and then click open.



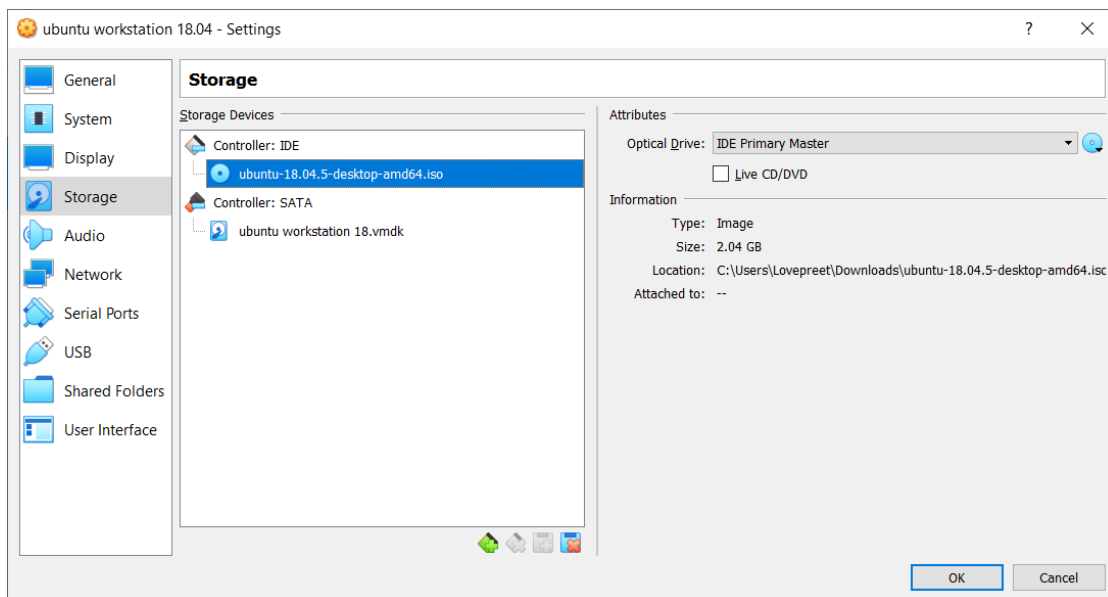
15. Select the newly created disk and click choose



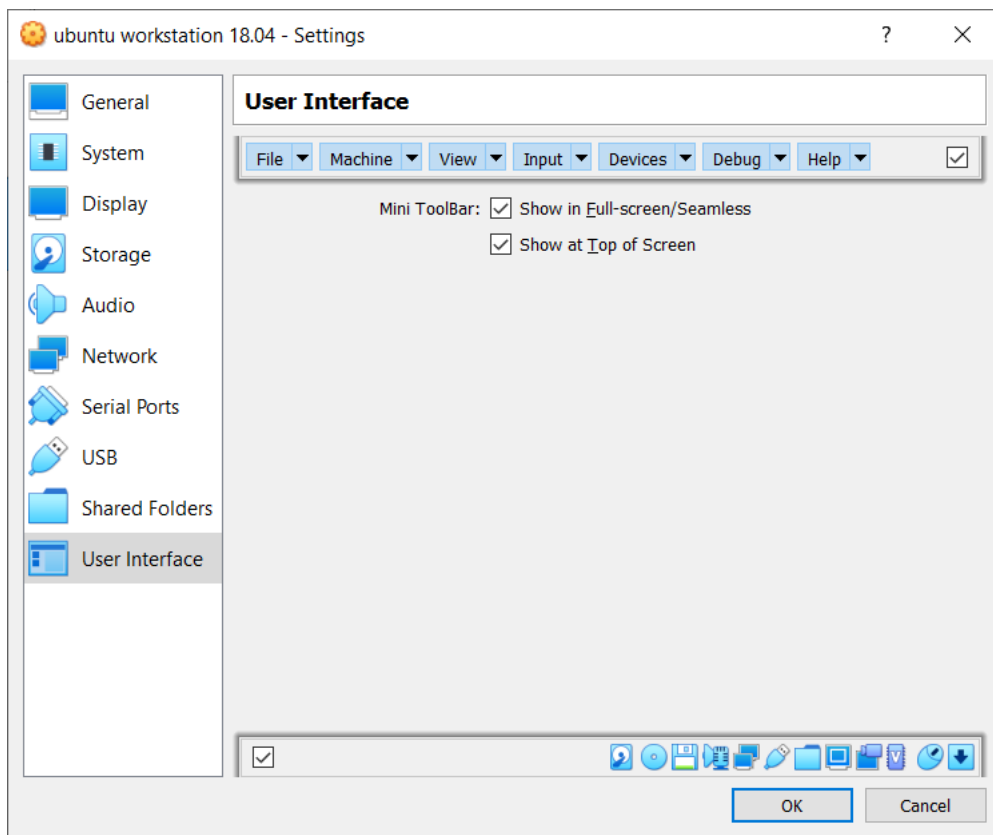
16. Click on the Empty disk and then delete it.



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

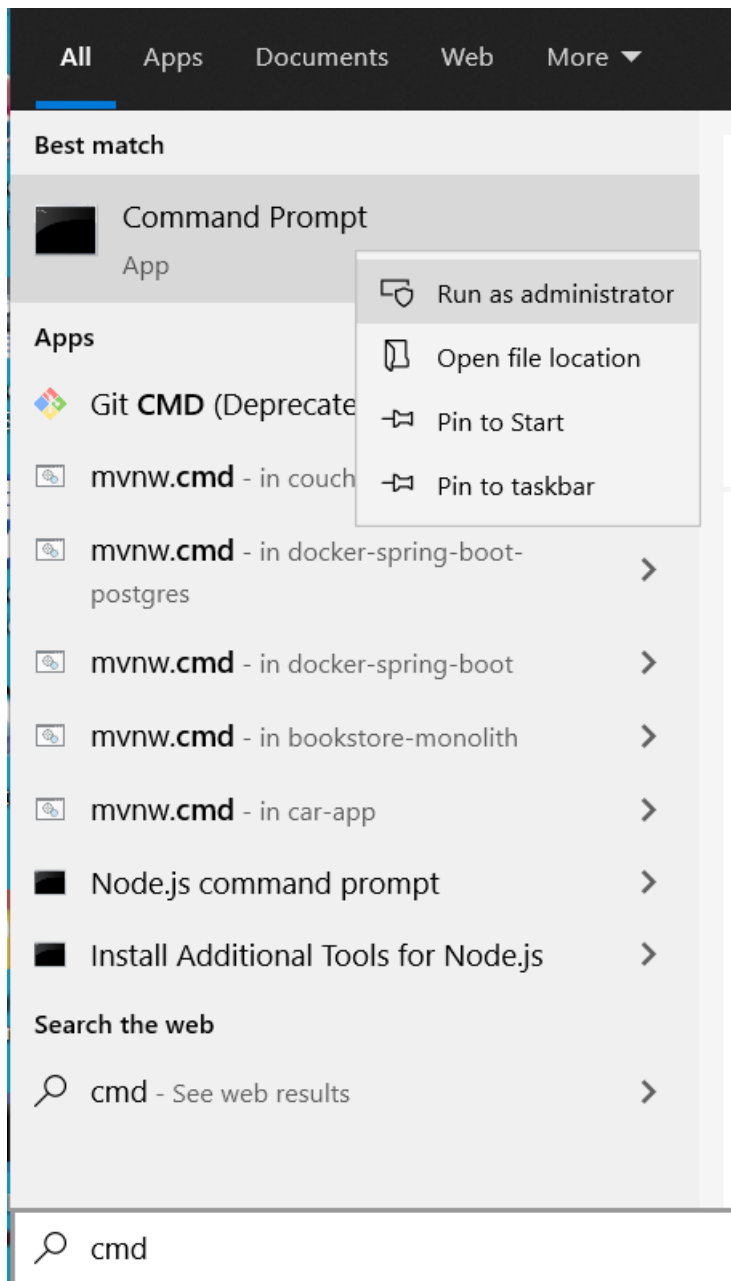


18. Under “User Interface”, select “Show at Top of Screen” and then click OK at the bottom.



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

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



21. Click "Yes" to the "user control" message.
22. 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
```

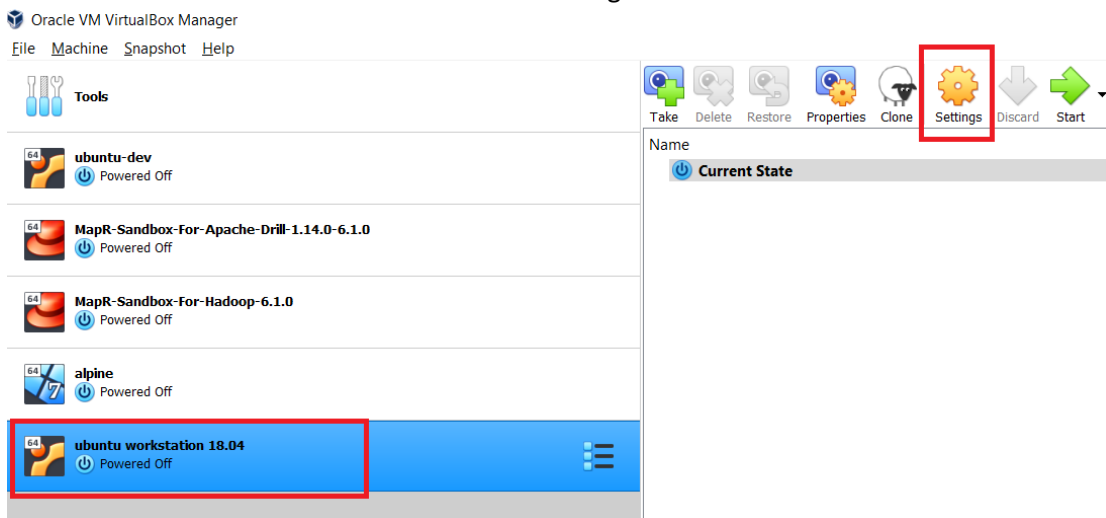
```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

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

C:\WINDOWS\system32>
```

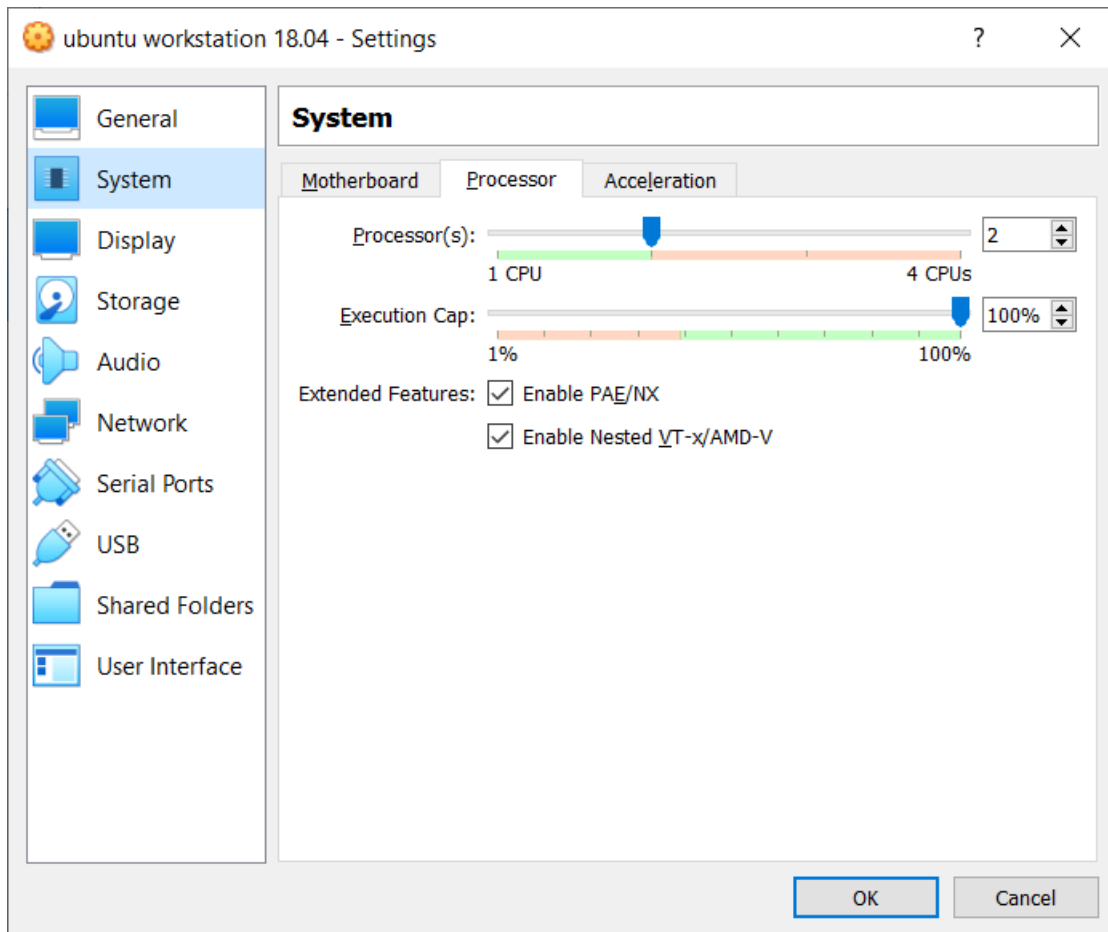
23. Start VirtualBox from Start menu.

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













25. Go under “System” > “Processor” and check if “Enable Nested VT-x/AMC-V” is enabled.

Note: If it is still disabled then you processor does not support this feature so you can ignore it.



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

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

27. Next go to Step3 document.