Table of Contents

Setup VM on vmware workstation

We will install `ubuntu 18.04 server` as host VM.

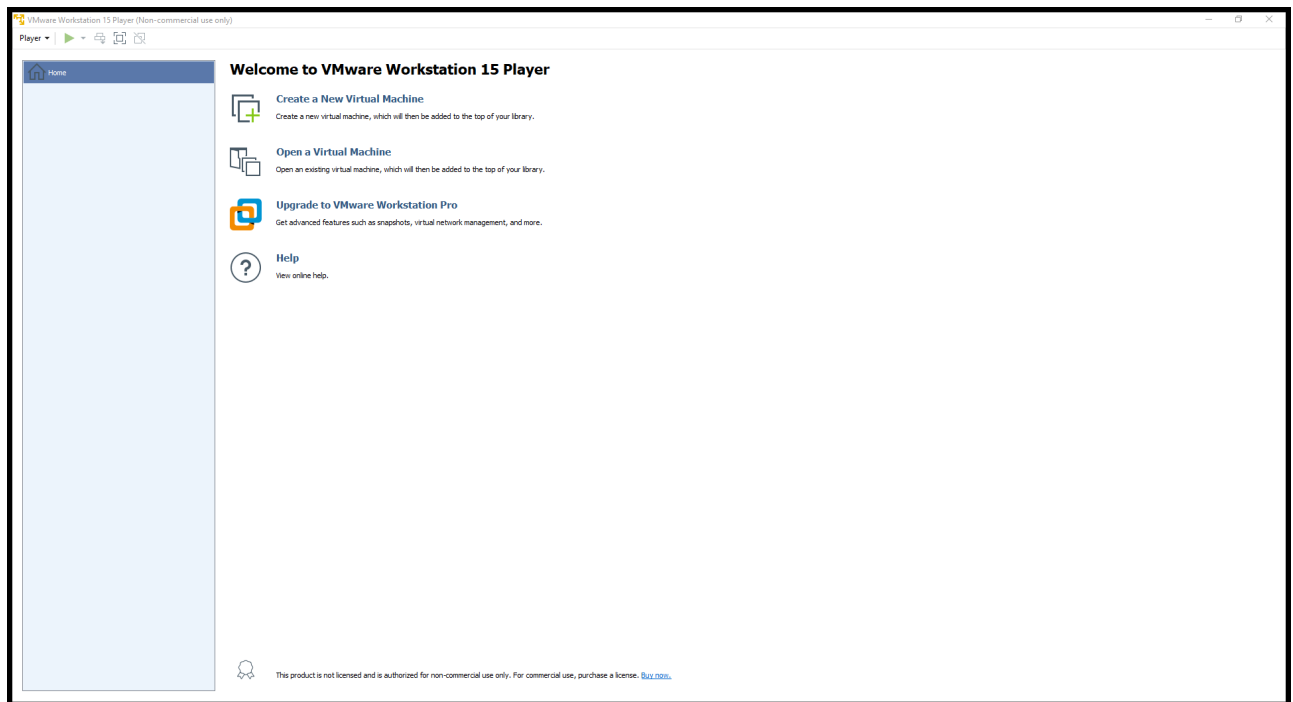1. Create new VM by clicking on `Create New Virtual Machine`

Figure 1. VM create wizard

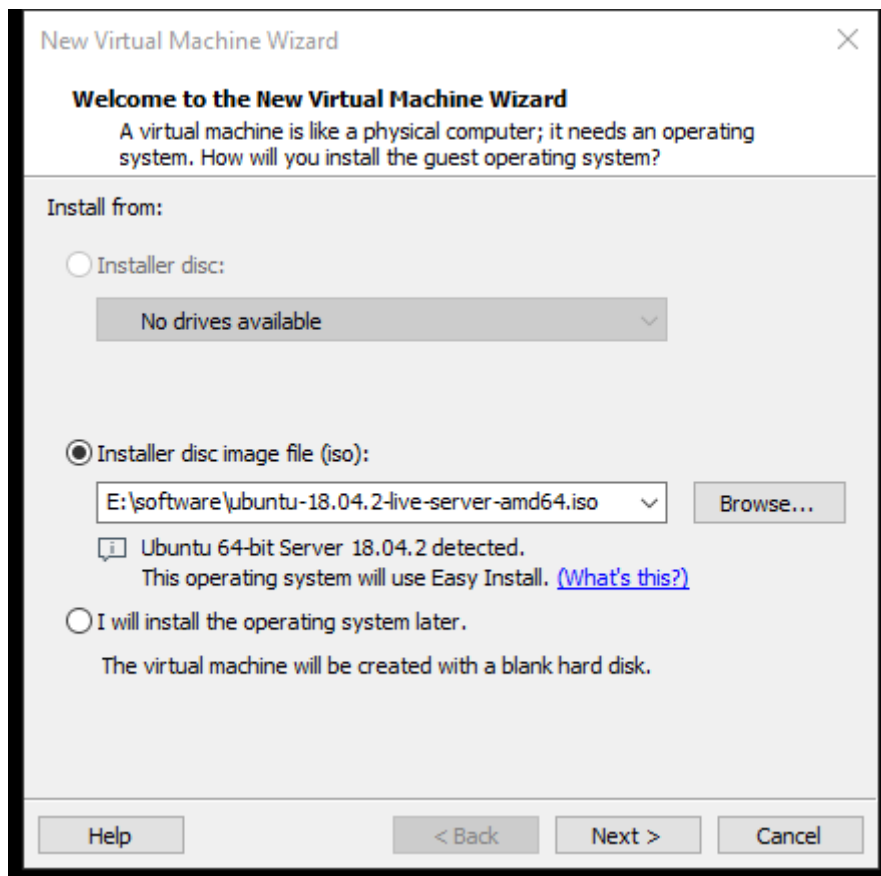2. Browse for and select `ubuntu server image` (ISO file) and click *next*

Figure 2. Select VM Image source
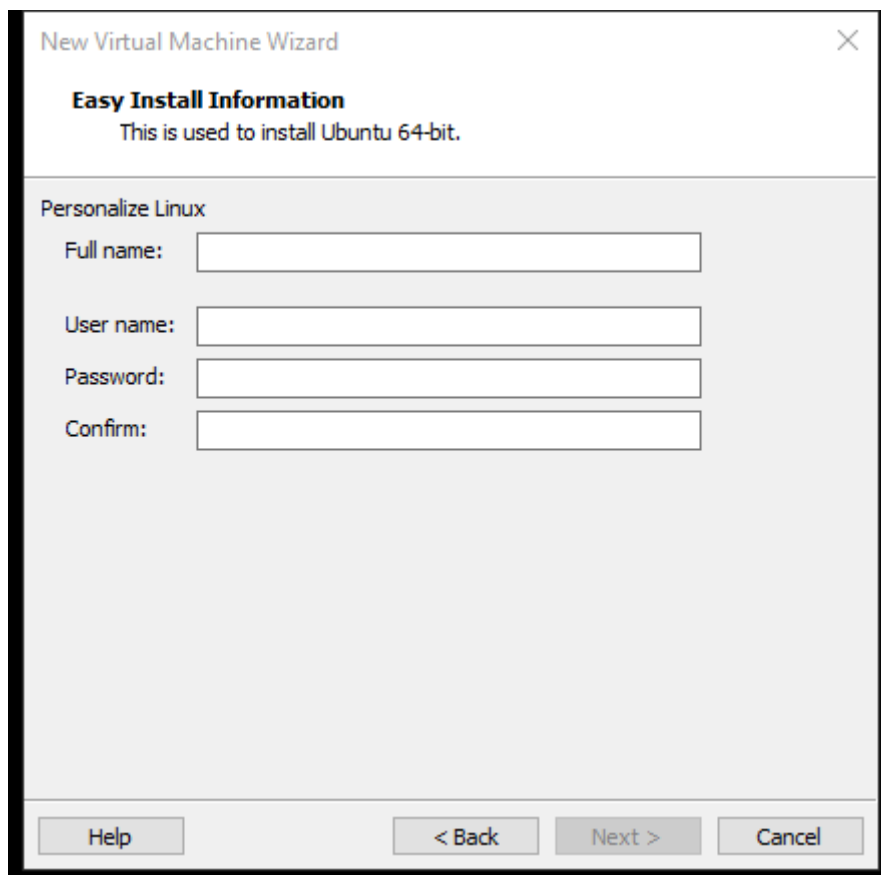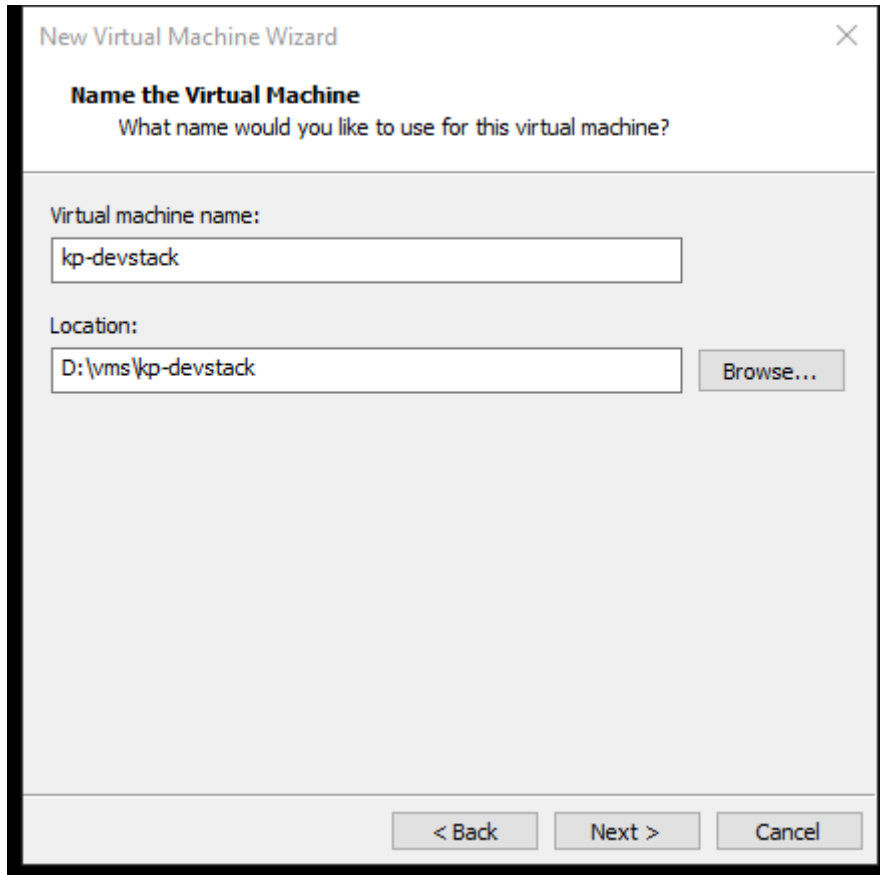
3. Provide VM default user information.

Figure 3. UserInfo wizard

4. Set VM name and disk location.

Figure 4. DiskInfo wizard

5. Set Disk size and select option `store virtual disk as a single file`
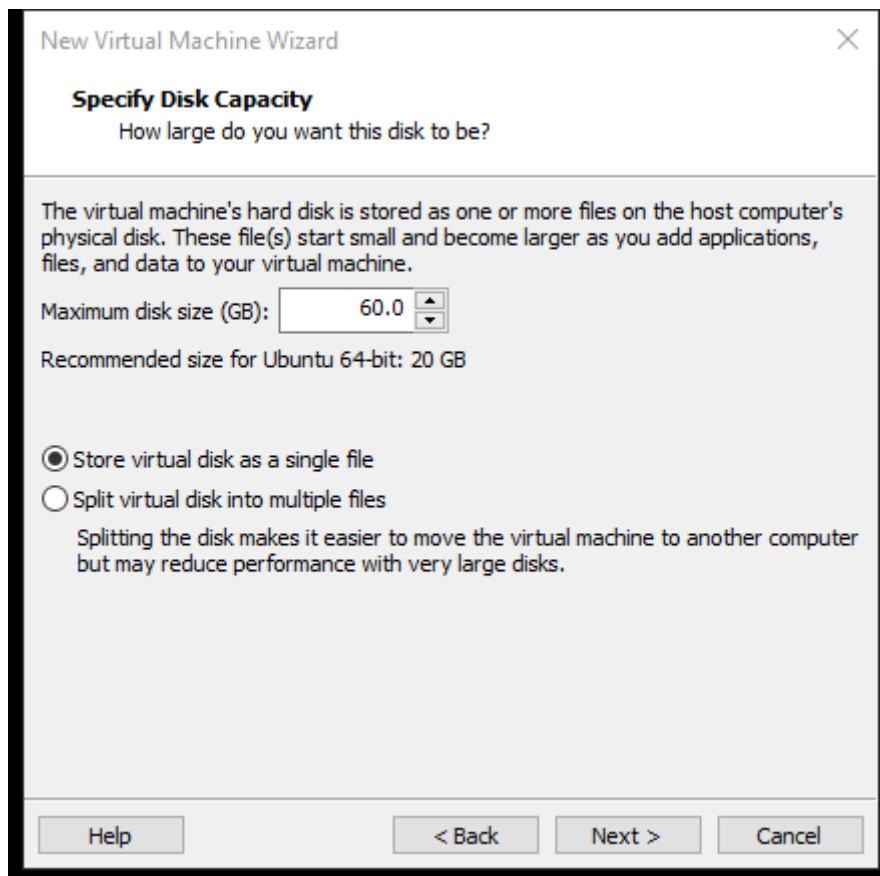
Figure 5. DiskInfo wizard

6. Click on *customize hardware* as we need to increase RAM and enable Virtualization parameters
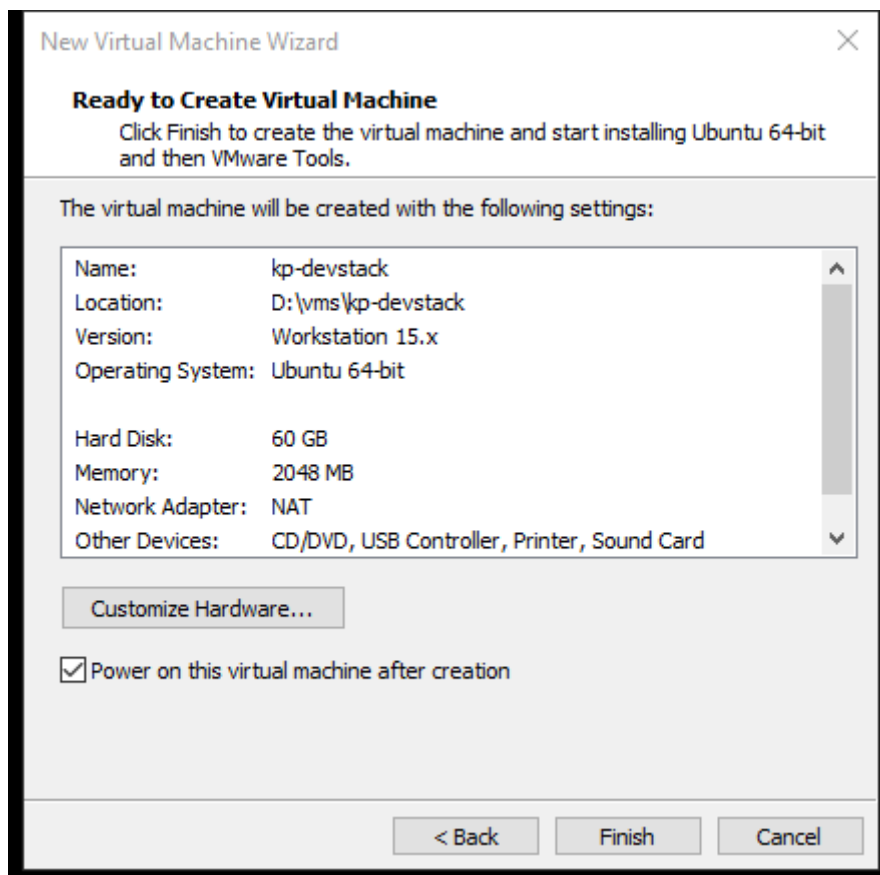

Figure 6. VM summary

7. Increase RAM size, processor count and select all options of virtualization engine.
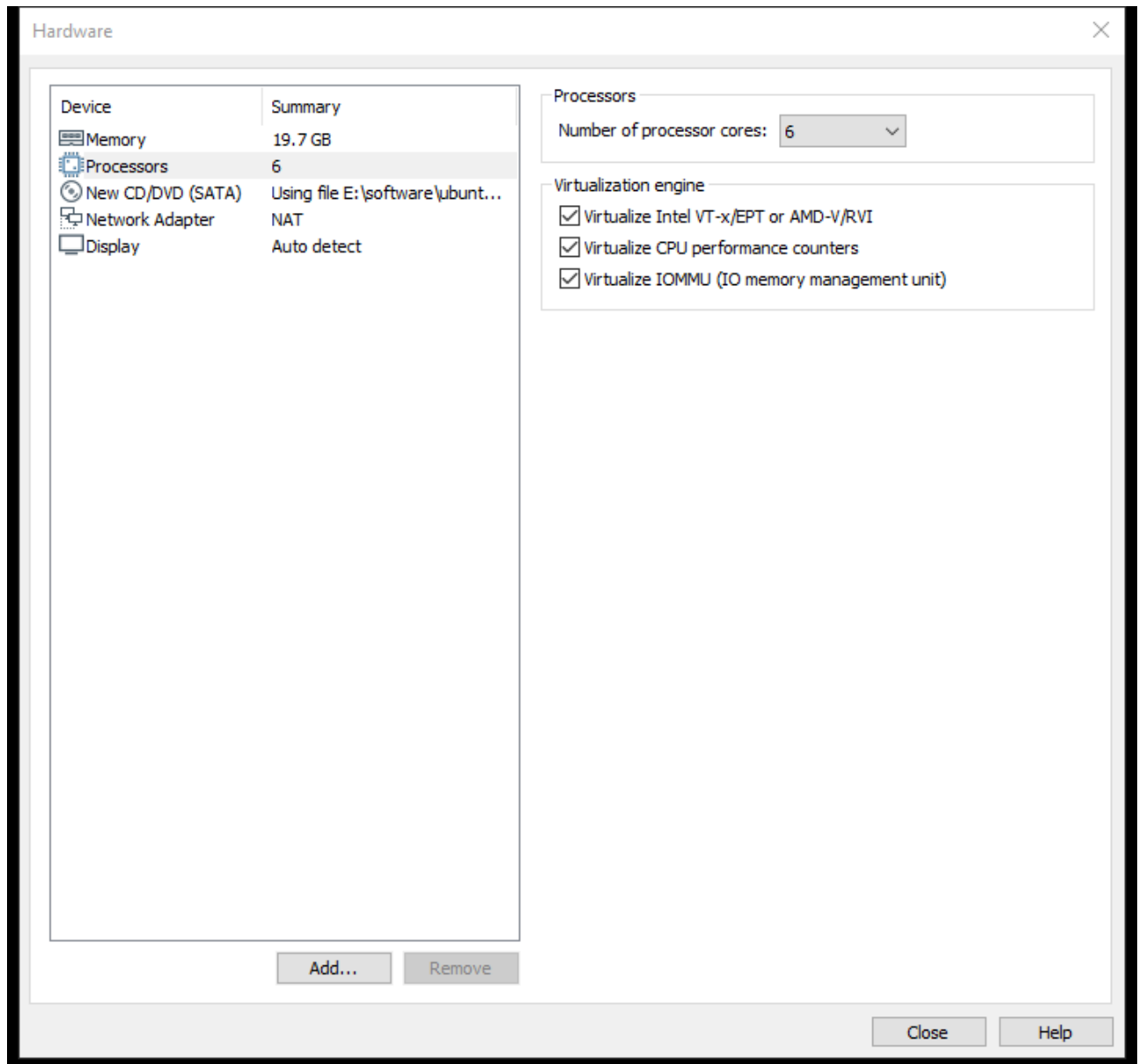

Figure 7. Hardware customization

> ❗ You need to enable virtualization parameters for nested kvm to work.

> 💡 You can remove controllers such as usb, sound, printer and remove 3D support in display section

8. Add two additional network adapters, configure `network connection types` as shown in below table.

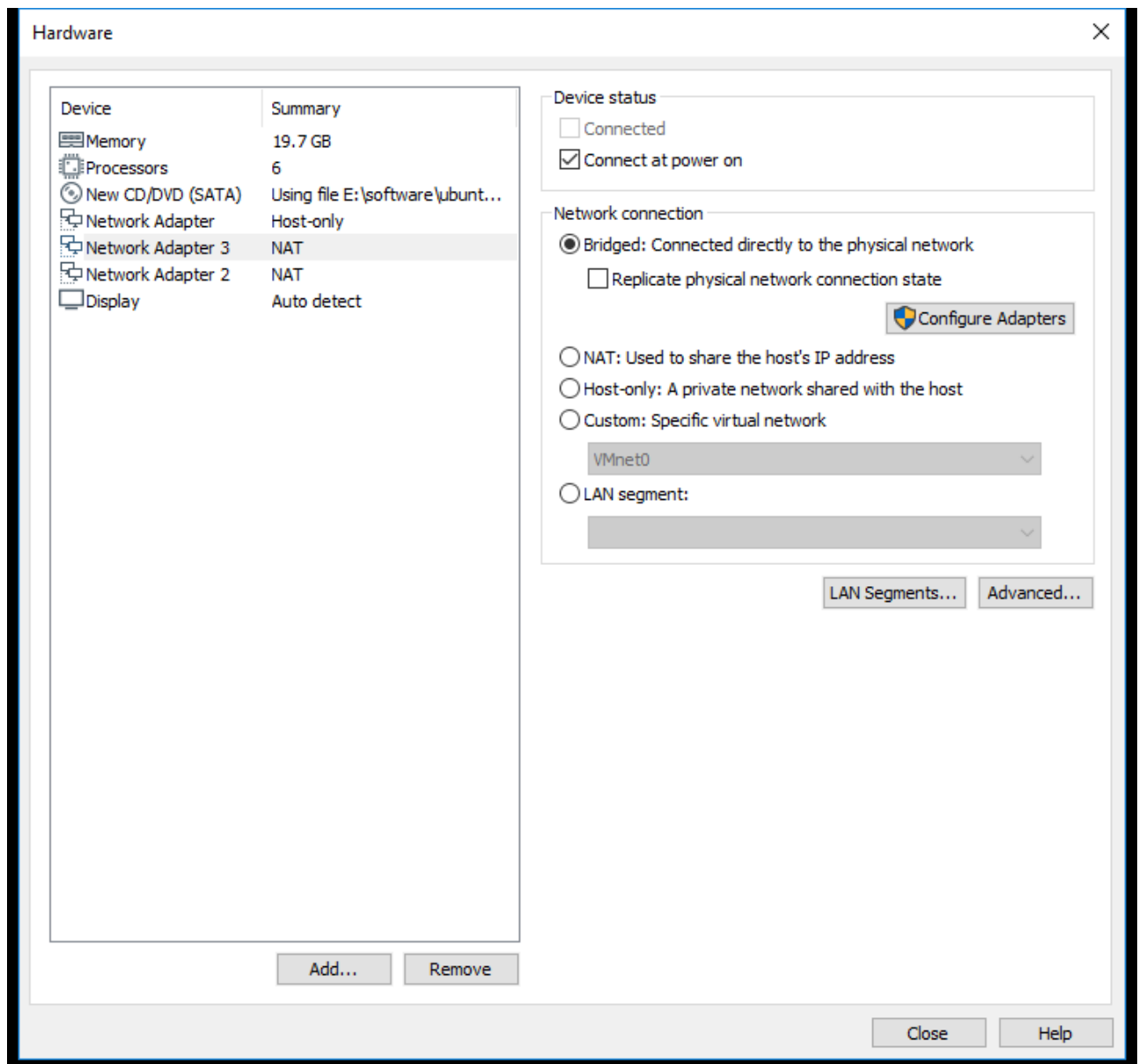| Name	Connection Type
Network Adapter	Host only
Network Adapter 2	NAT
Network Adapter 3	Bridged

Figure 8. Network adapter settings

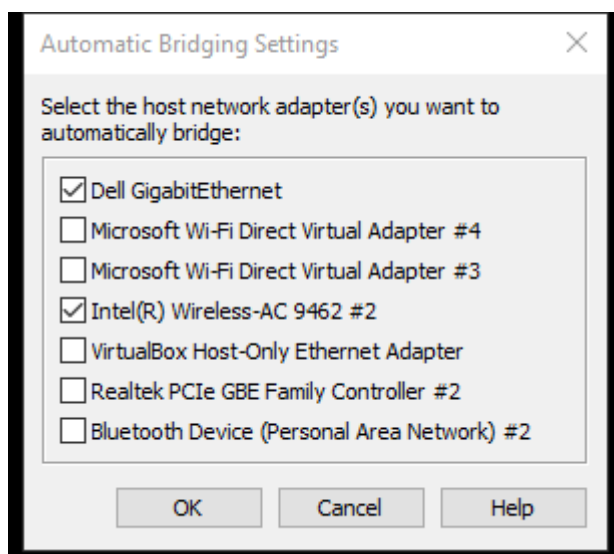while configuring bridged configuration you can customize host network adapter the bridging applies to.

Figure 9. Bridged configuration

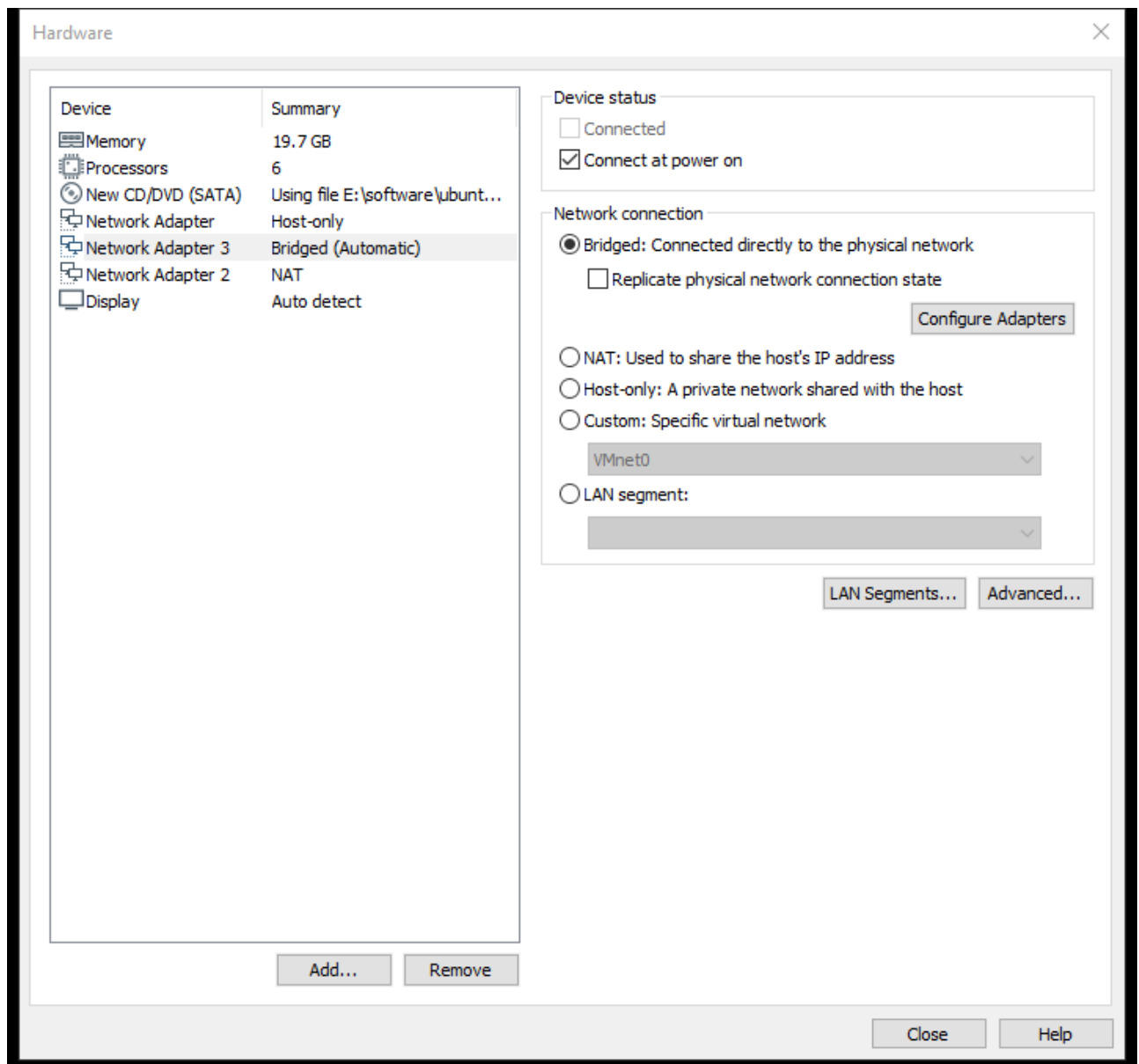9. Once configuration is done, click on *close*

Figure 10. Final harwardware settings
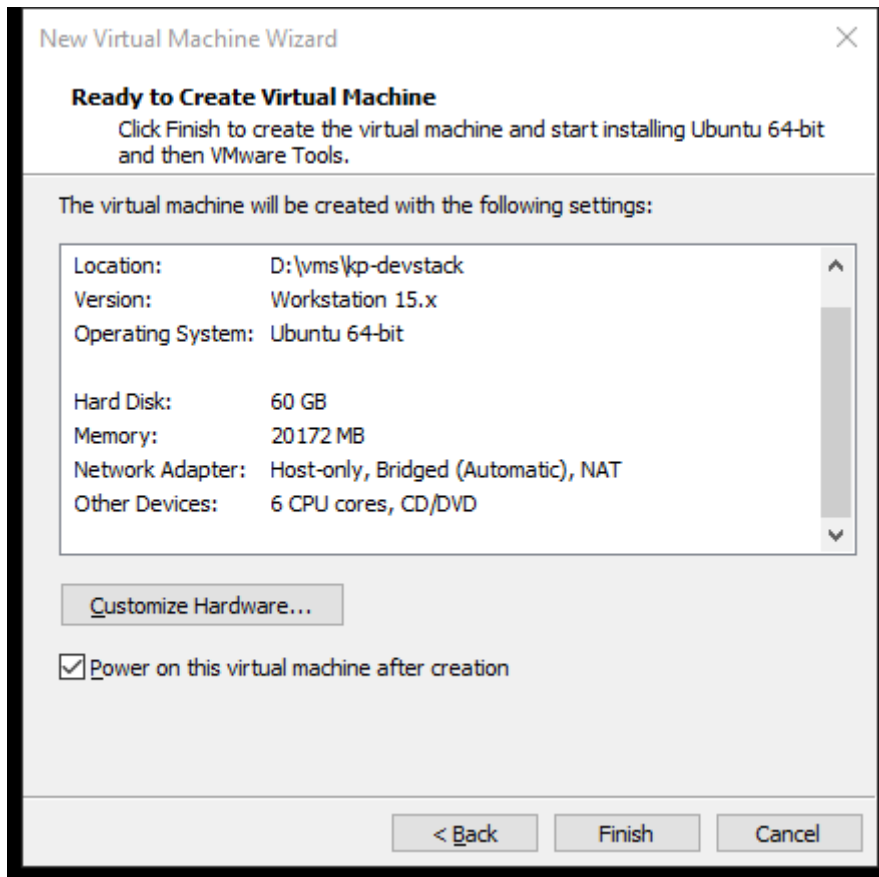
10. click on *finsh*

Figure 11. VM summary

on clicking of *finish* button application will setup disk space allocate hardware and will reboot appliance and we will be presented with ubuntu OS installation wizard.

Setup Ubuntu OS

1. On Image load we will be promted to select languare, set the desired language.
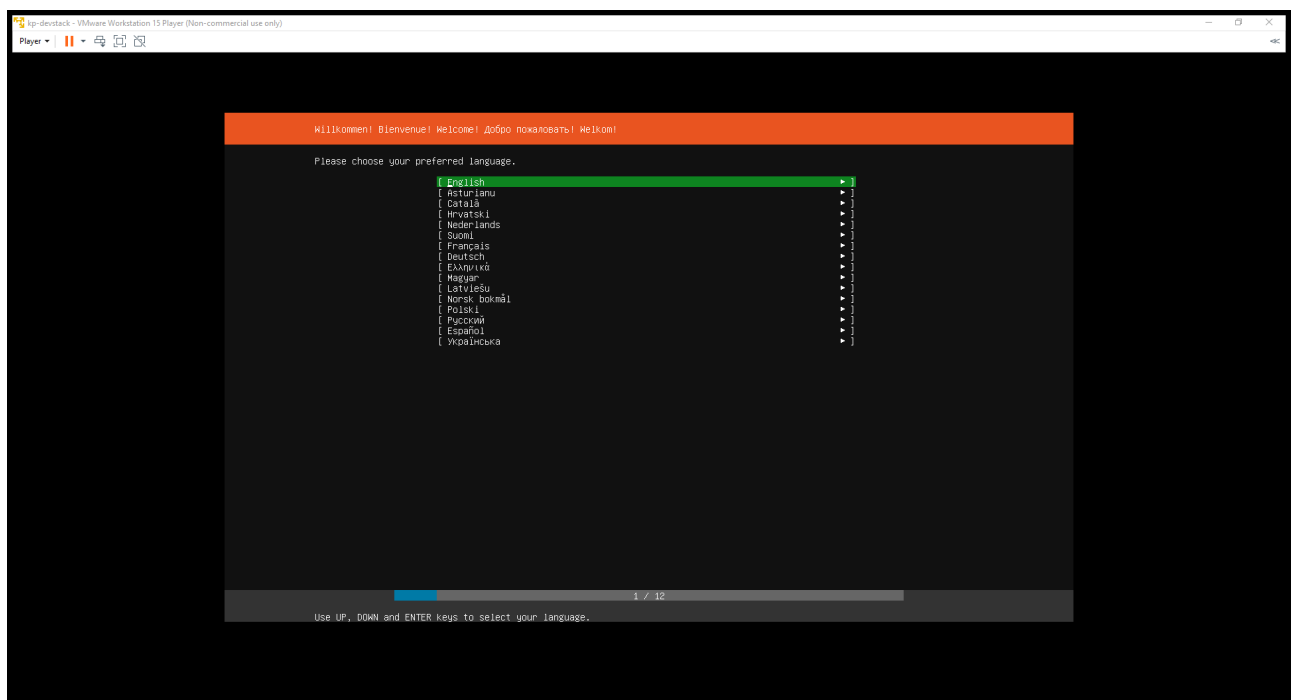

Figure 12. os setup language wizard

2. Next we will be prompted to select keyboard layout, let the default configuration be as it is. Navigate to *Done* using tab and press *enter*.
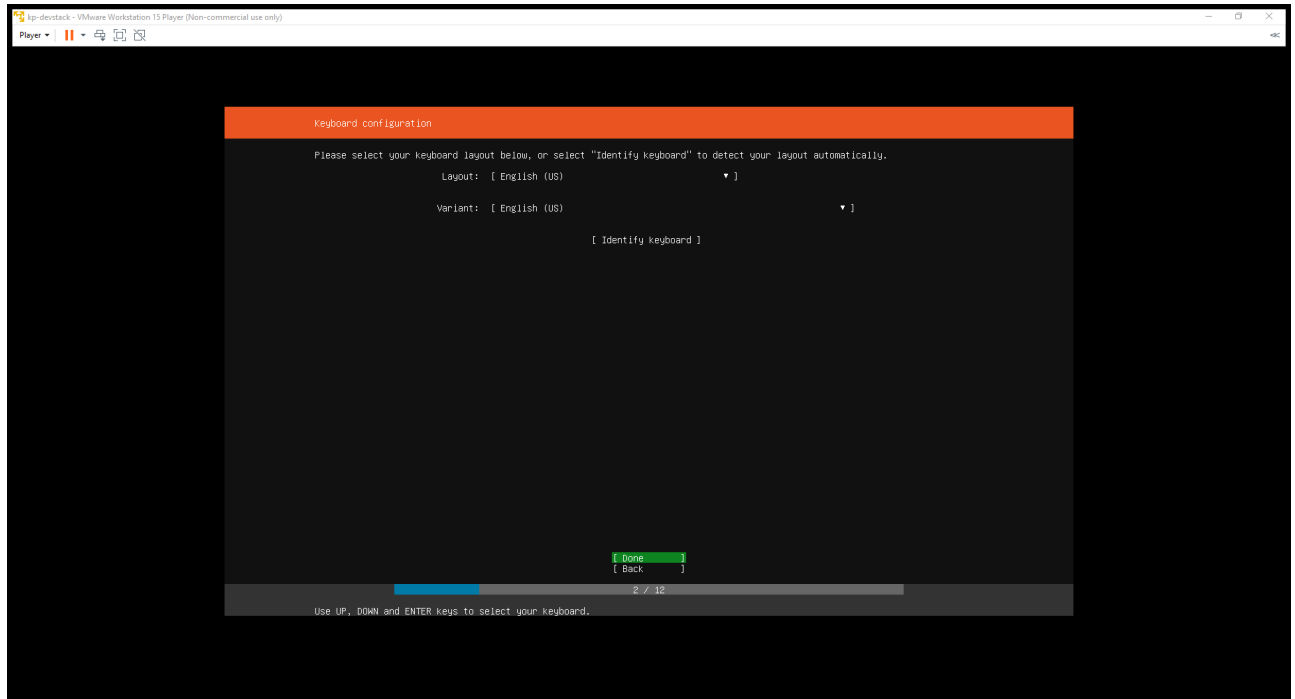

Figure 13. os setup keyboard layout wizard

3. Next we will be navigated to network interface wizard. navigate by pressing arrow button to select a interface, once interface is highlighted press enter and a drop down menu list appears, configure network settings as shown in below table.

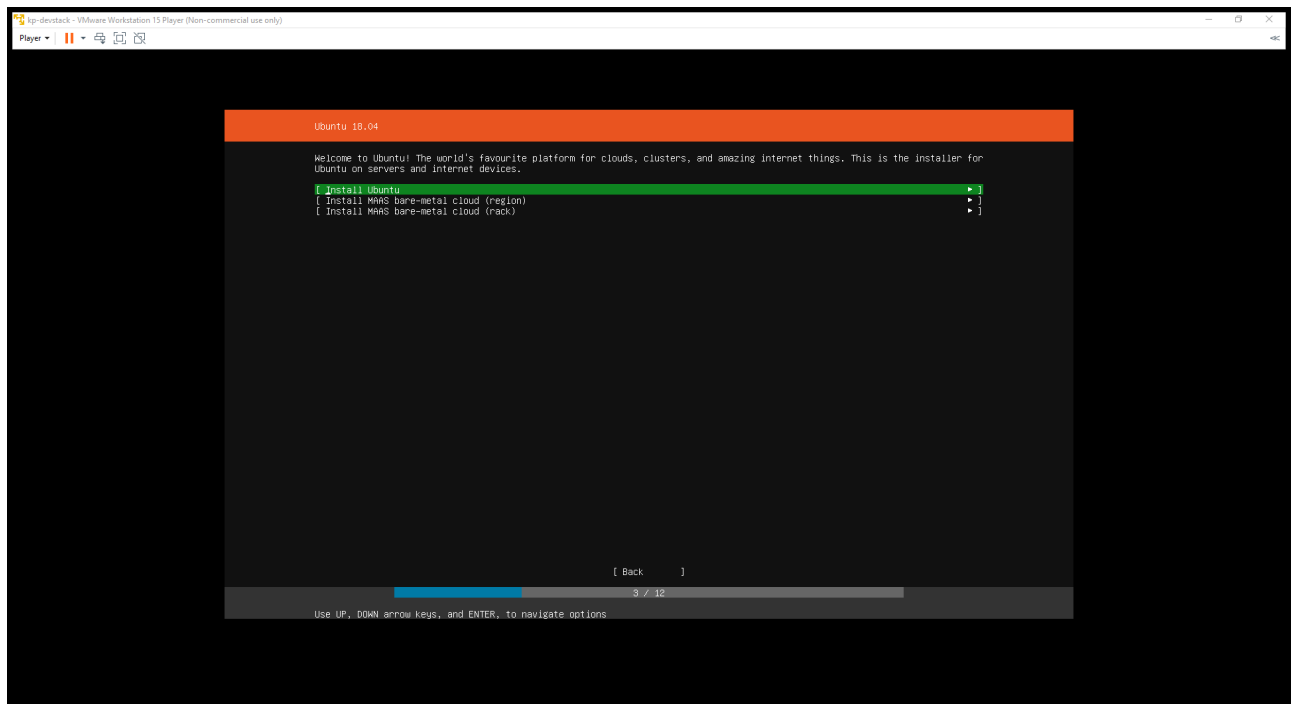| Interface	Settings
ens32	we need set static ip to this interface, select manual option from drop down and enter static ip address from subnet, you can get the subnet from the dhcp ip already assigned to this interface (shown in second diagram below)
ens33	interface will get ip from DHCP, hence no change is required
ens34	We need to disable this interface and bring up/down manually, hence select option `disable` from option

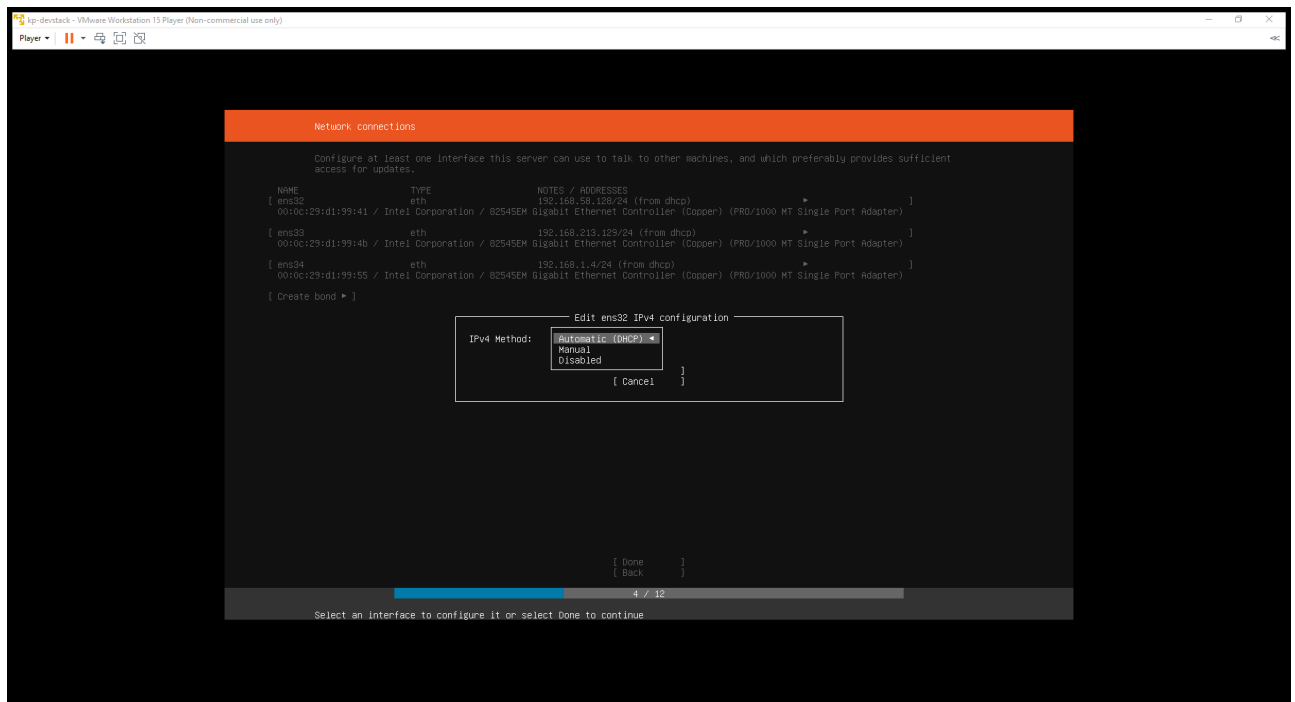*Figure 14. os setup network settings wizard*

Figure 15. static ip settings wizard

4. Below is network interface summary settings, once interface settings configured, navigate to *Done* button and press *enter*
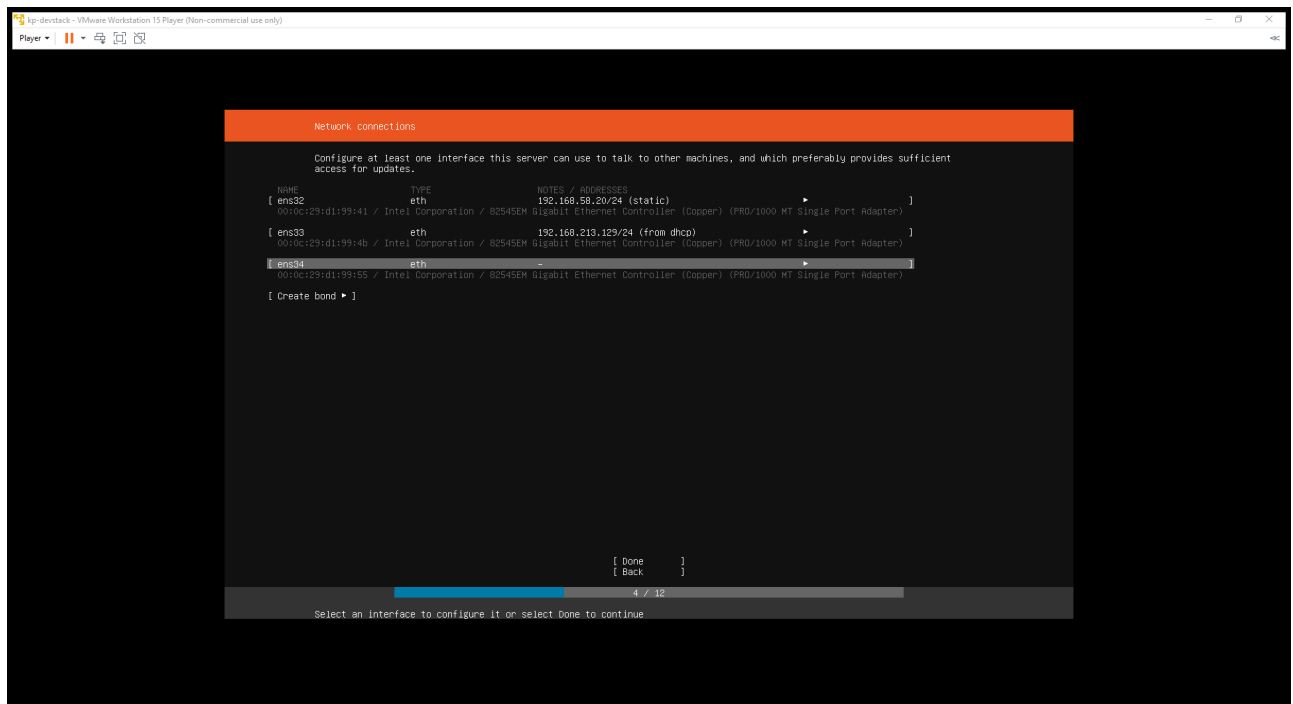
Figure 16. interface settings summary

5. Skip through proxy settings dialog by pressing enter on *done,* until unless you need to configure a proxy.
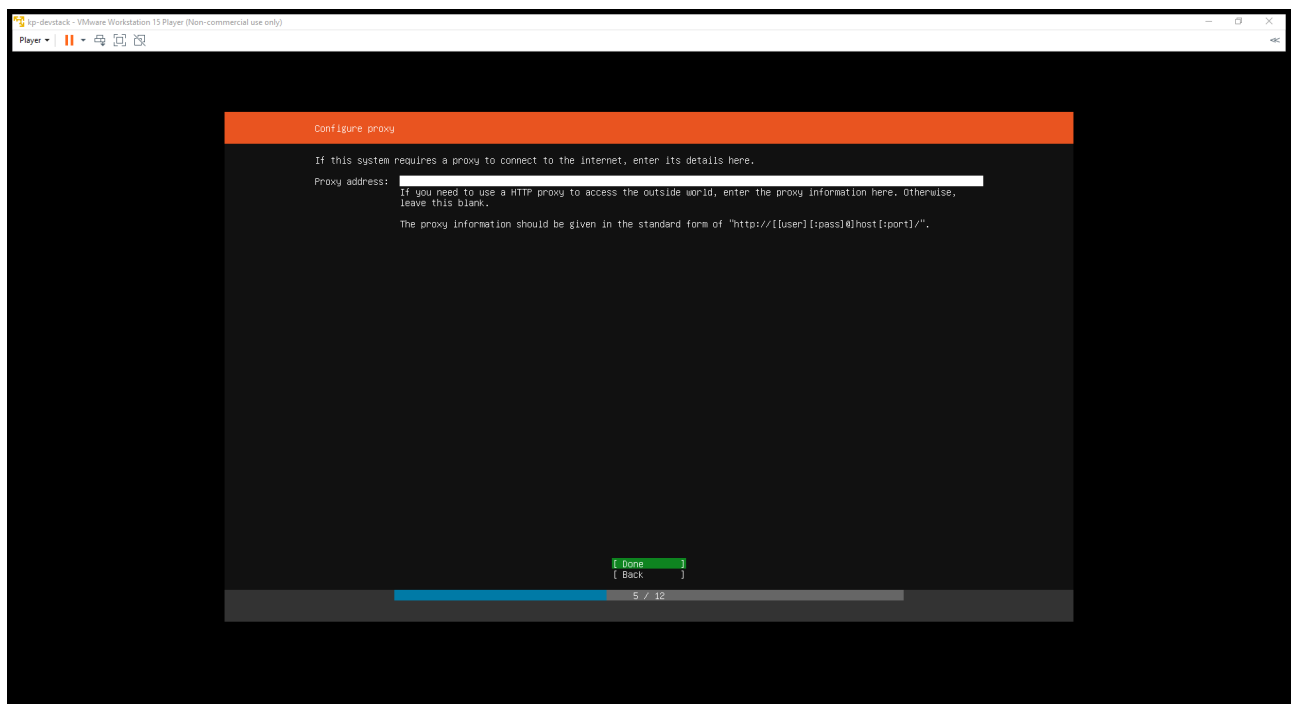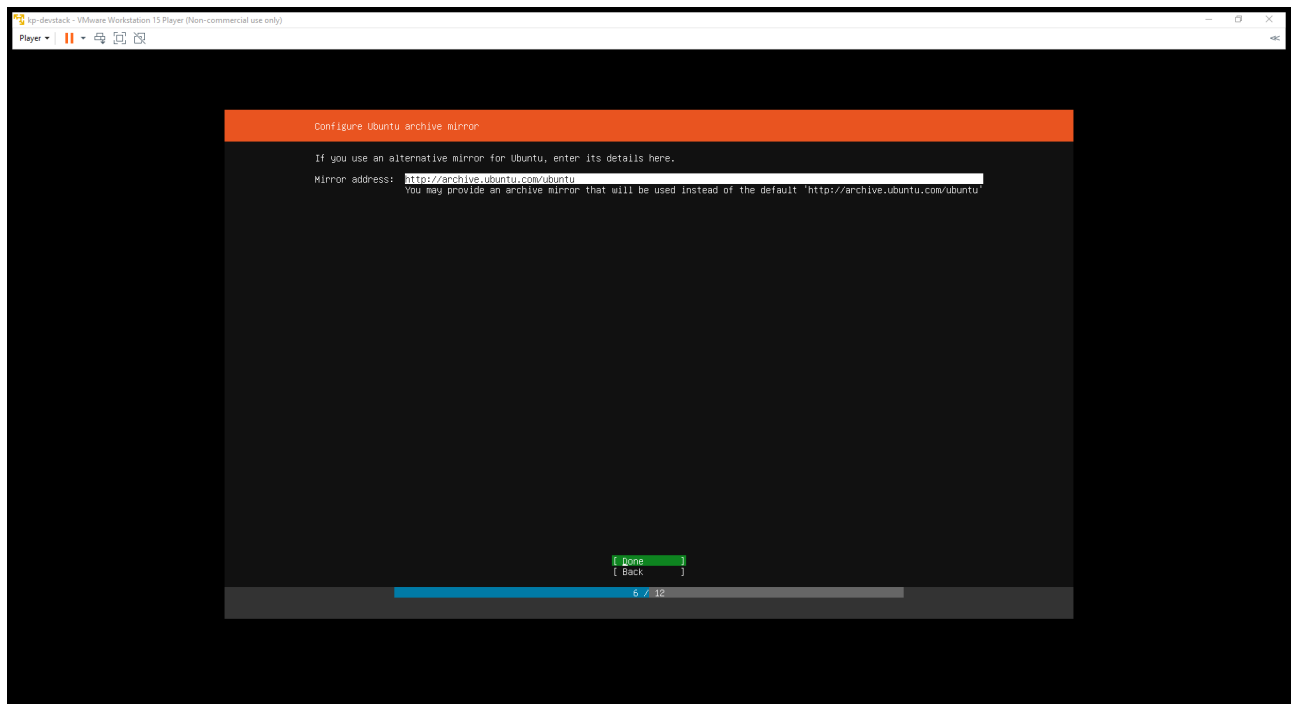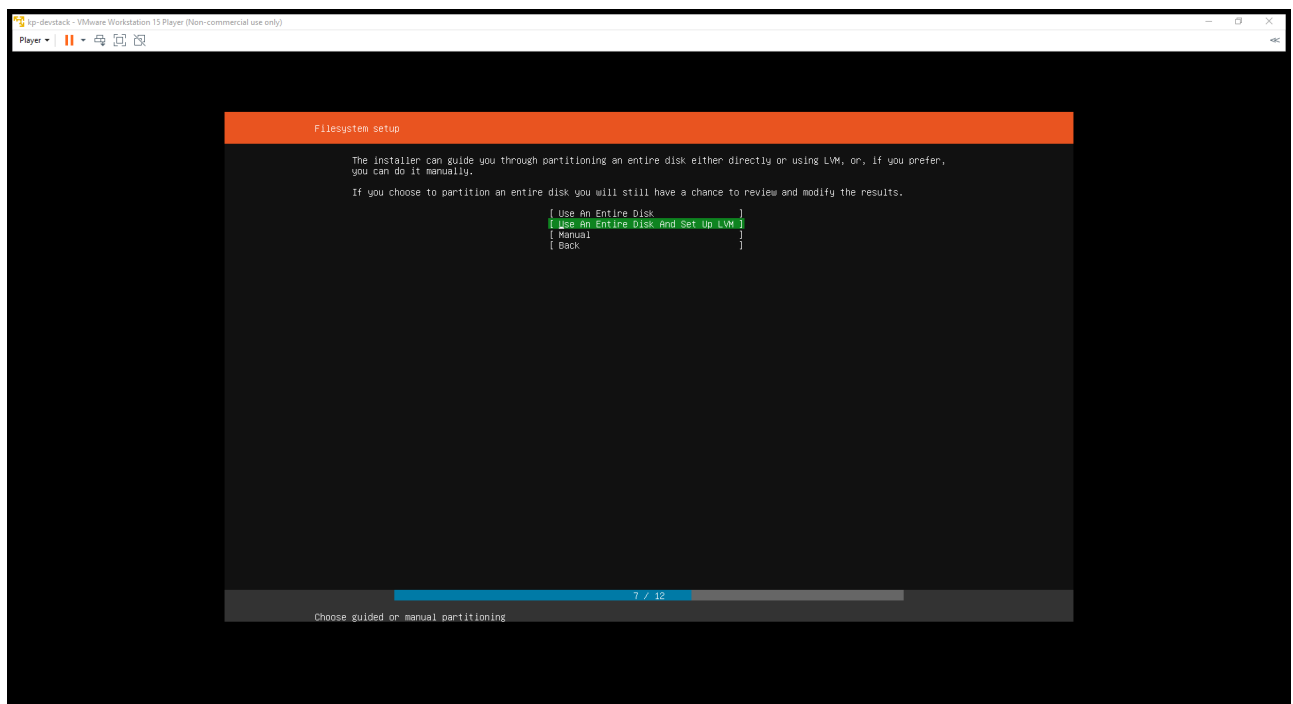

Figure 17. proxy settings wizard

6. Skip through ubuntu archive mirror page by pressing enter on *done.*

Figure 18. ubuntu archive settings wizard

7. Next we will be prompted to configure file system, select `use entire disk and with lvm` option and press *enter*.

Figure 19. filesystem setup wizard

8. Since we have only one disk, file system setup wizard displays only one drive, select the drive and press *enter*
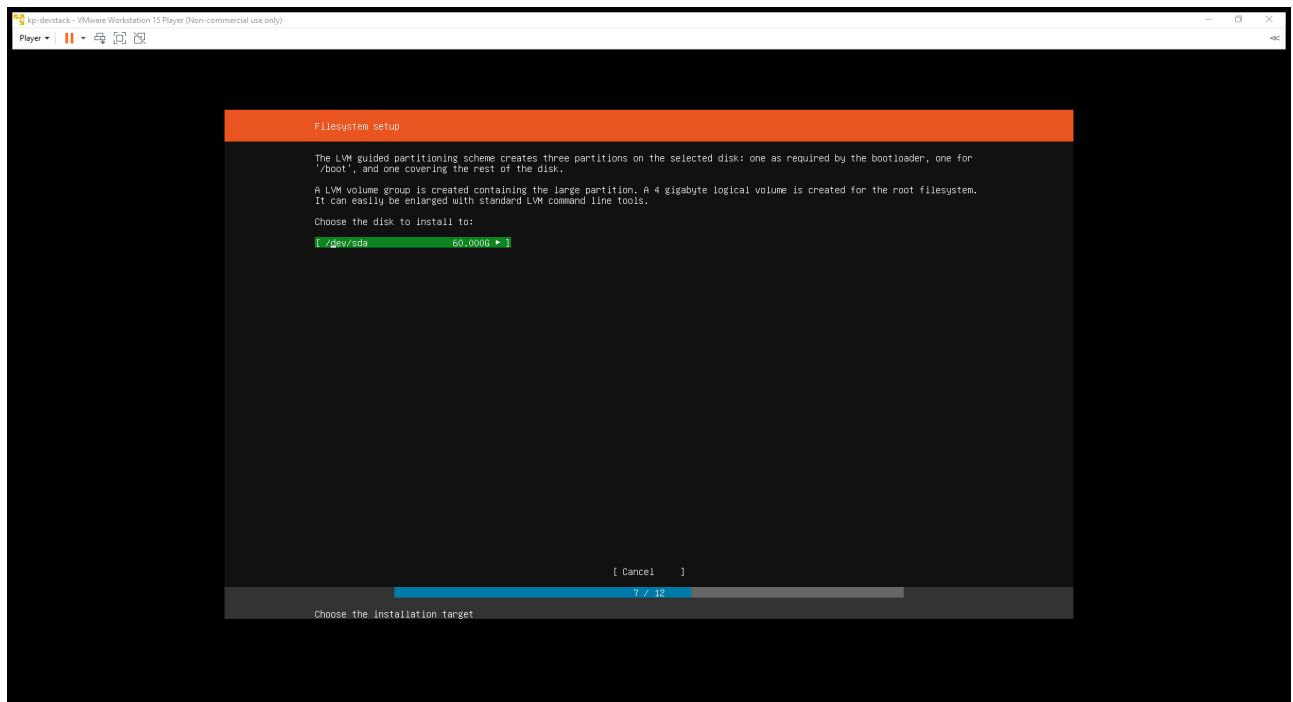
Figure 20. filesystem setup wizard

🔥 When selecting LVM make sure you've selected added entire disk to VG by default in 18.04 4GB is selected. You can extend the drive at later point of time as well.

To set entire disk for usage navigate to `Available device` → `-vg` →`-lv` by pressing *up* arrow and then press *enter*, select option `edit` from drop down and update the value to entire drive
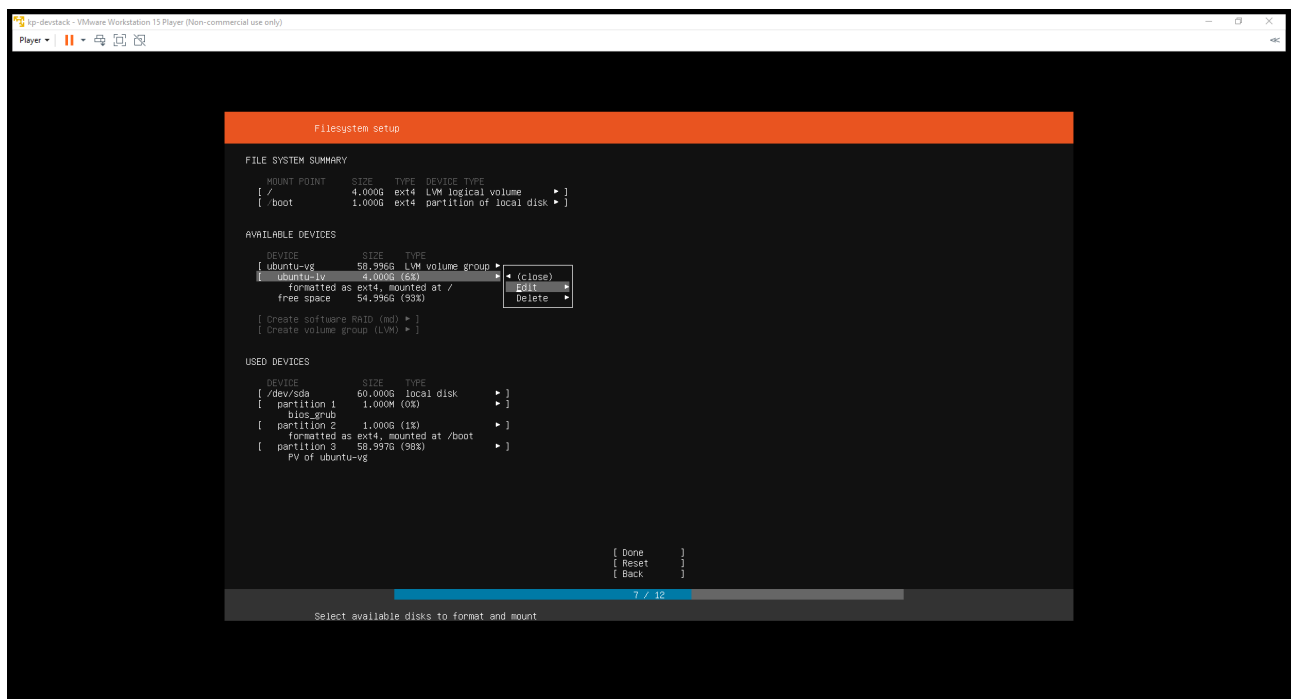

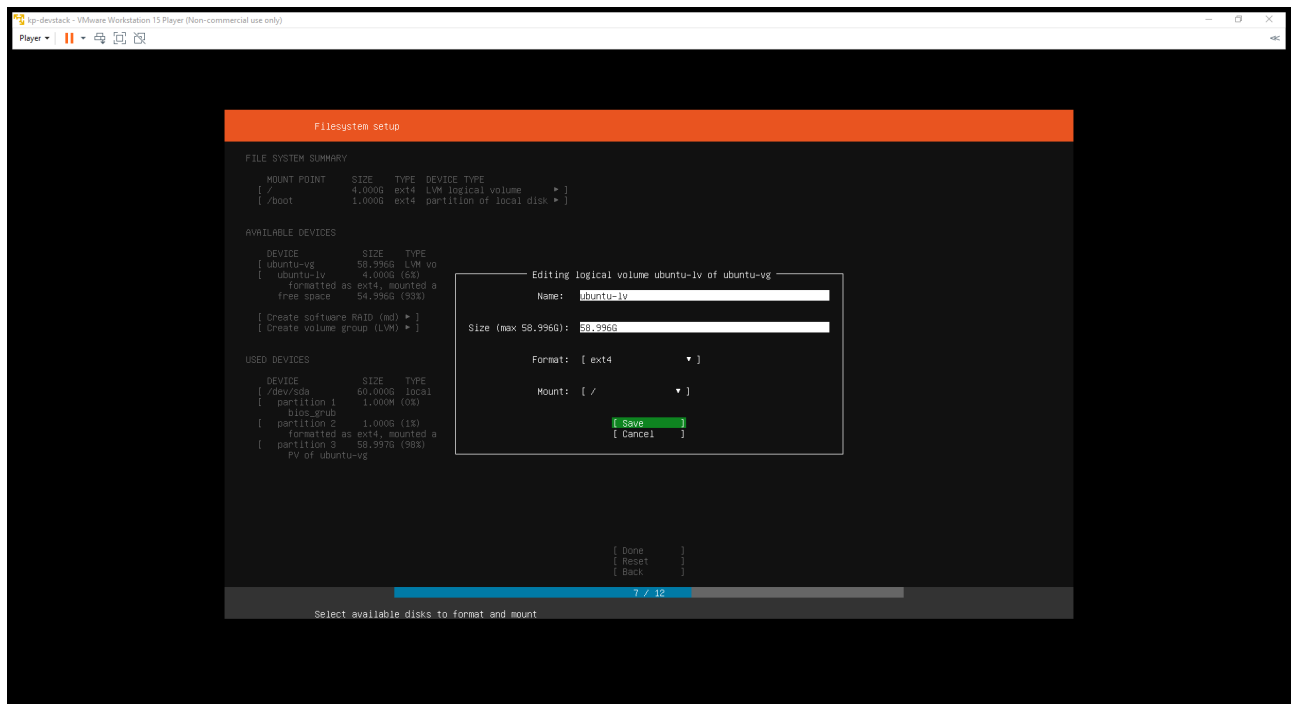*Figure 21. LVM configuration wizard*

Figure 22. LVM configuration wizard

9. A summary window will shown describing the Disk Partitions, once file system configuration is done press *enter* after navigating to *done*
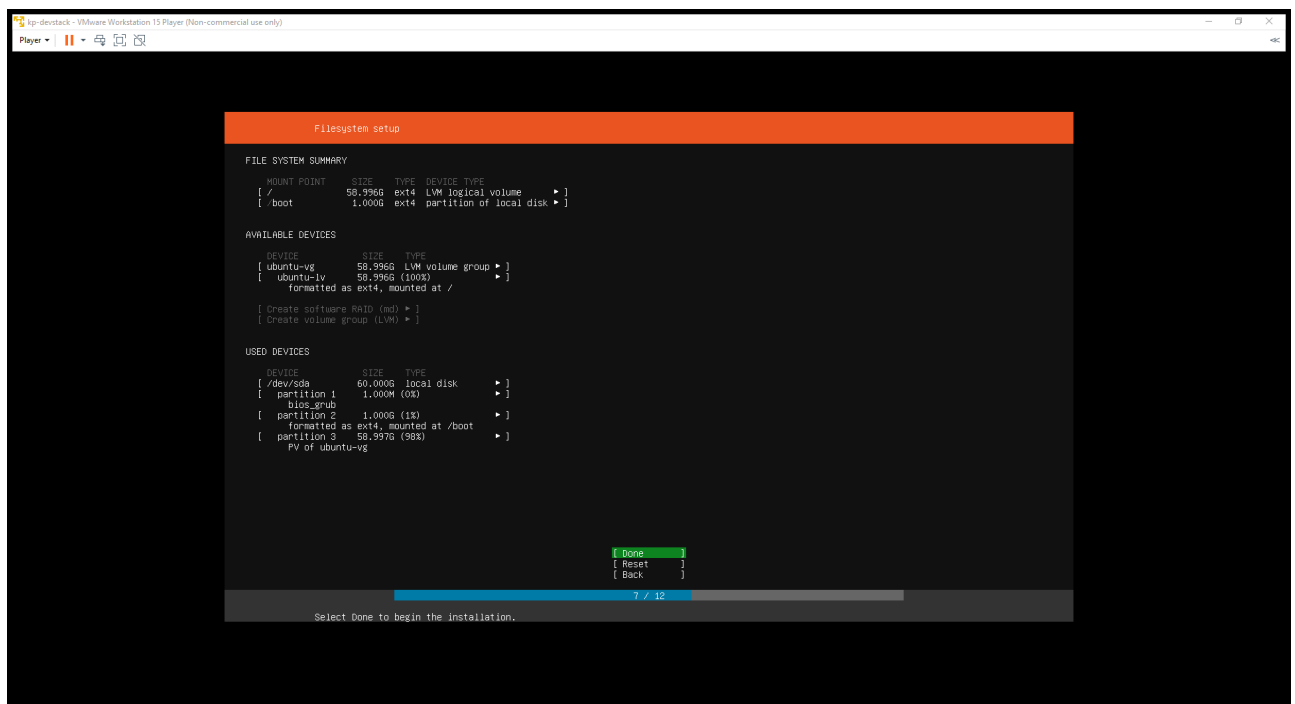

Figure 23. File system configuration summary

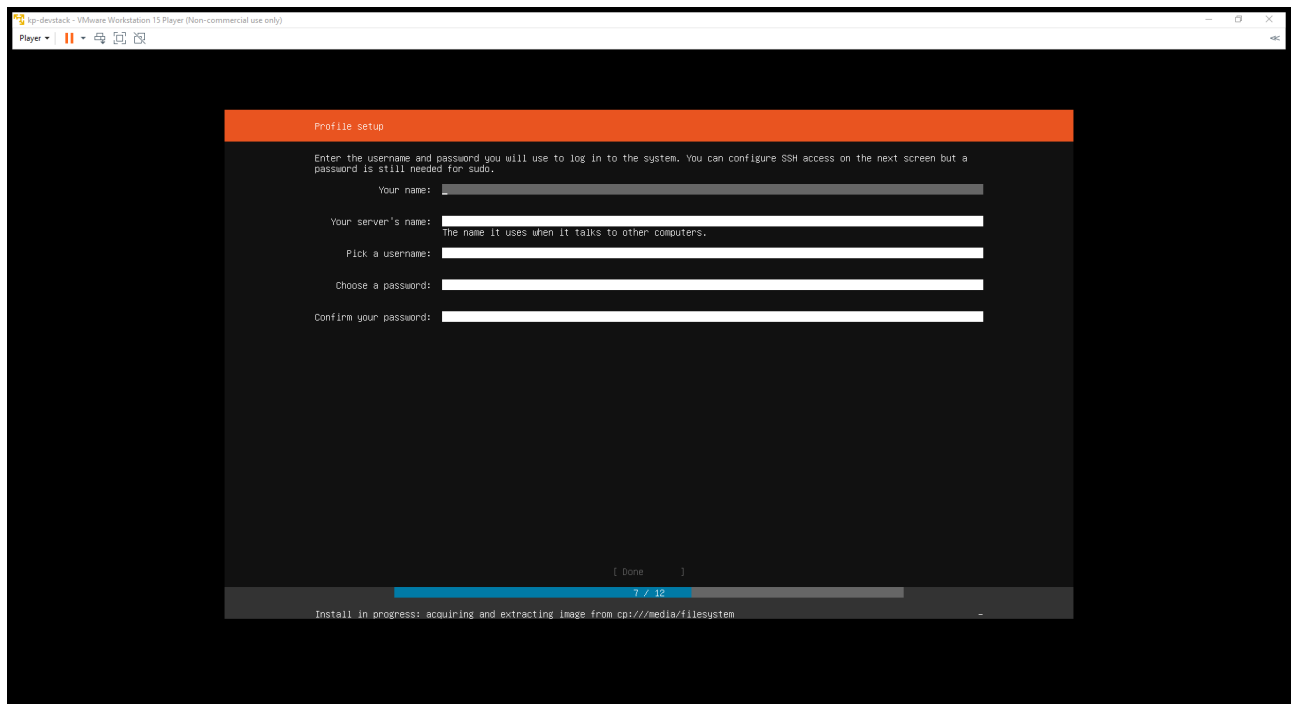10. Next `Profile setup` window comes up, fill all the details.

Figure 24. Profile setup wizard

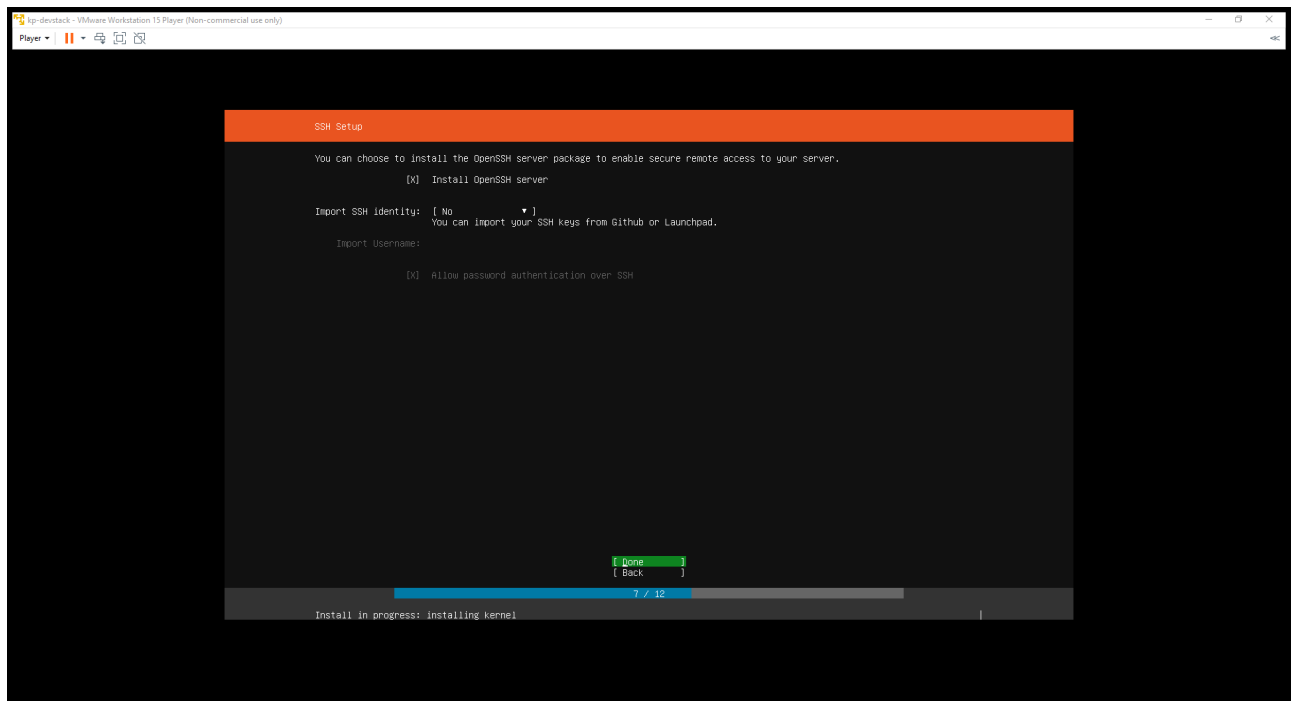11. Select option `install ssh server` before navigating to next page

Figure 25. SSH server configuration

- Once you navigate from ssh server installation window, it would take sometime to setup OS. Once Setup completes, would prompt to install grub, select yes to install grub, finally after installation click on Reboot
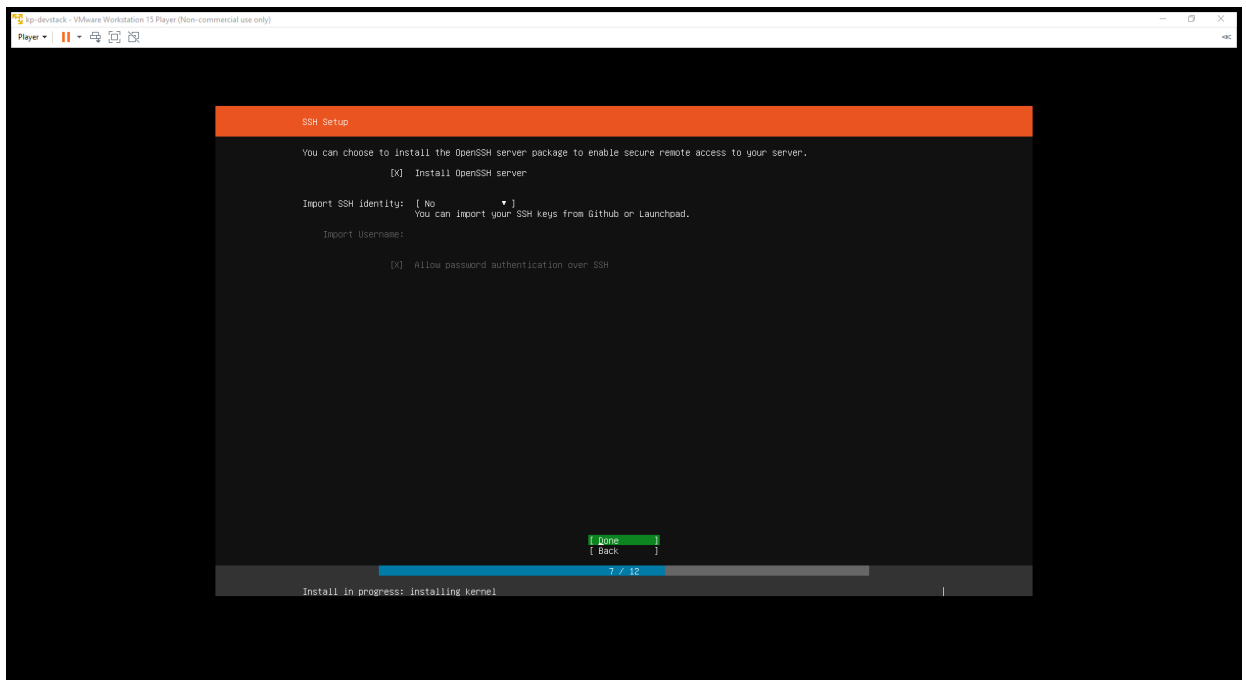
Figure 26. Installation summary