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## 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

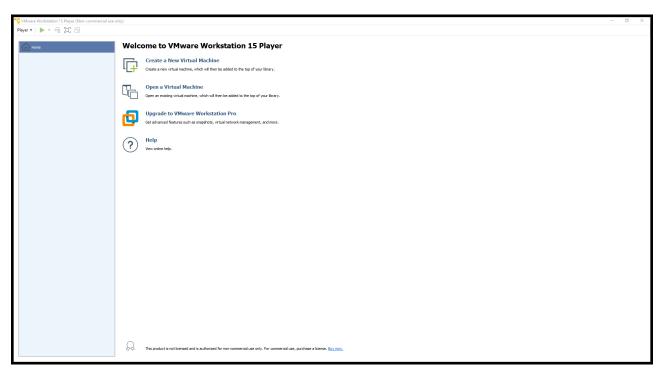


Figure 1. VM create wizard

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

New Virtual Machine Wizard			×
Welcome to the New Virtual Machine Wizard  A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?			
Install from:			
○ Installer disc:			
No drives available		~	
Installer disc image file (iso):			
E:\software\ubuntu-18.04.2	live-server-amd6	64.iso ∨	Browse
☐ Ubuntu 64-bit Server 18.0 This operating system will		(Mhat's this?)	
	•	(vvriacs trits:)	
I will install the operating system	em later.		
The virtual machine will be created with a blank hard disk.			
Help	< Back	Next >	Cancel

Figure 2. Select VM Image source

3. Provide VM default user information.

New Virtual M	achine Wizard			×
	<b>ll Information</b> used to install Ubuntu	ı 64-bit.		
Personalize Linu	x			
Full name:				
User name:				
Password:				
Confirm:				
Help		< Back	Next >	Cancel

Figure 3. UserInfo wizard

4. Set VM name and disk location.

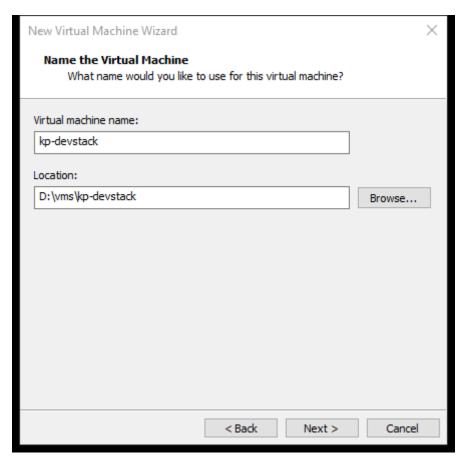


Figure 4. DiskInfo wizard

5. Set Disk size and select option store virtual disk as a single file

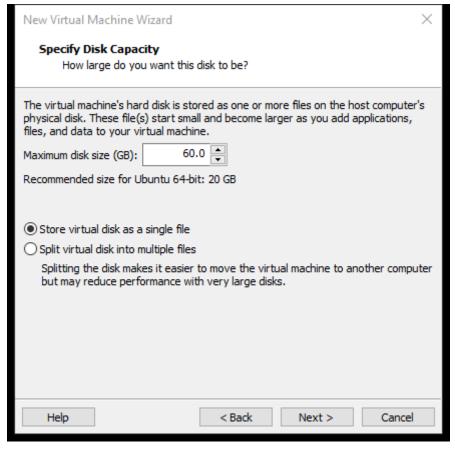


Figure 5. DiskInfo wizard

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

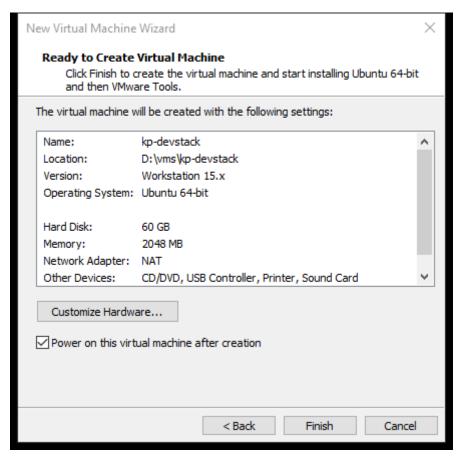


Figure 6. VM summary

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

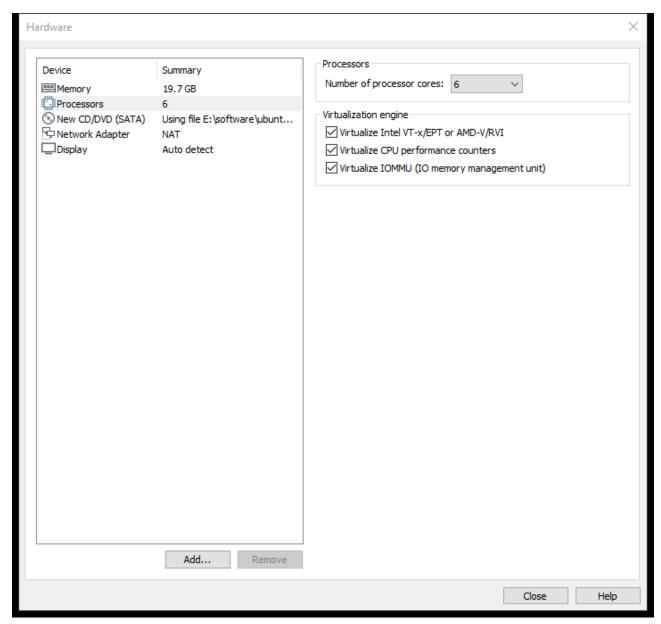


Figure 7. Hardware customization



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

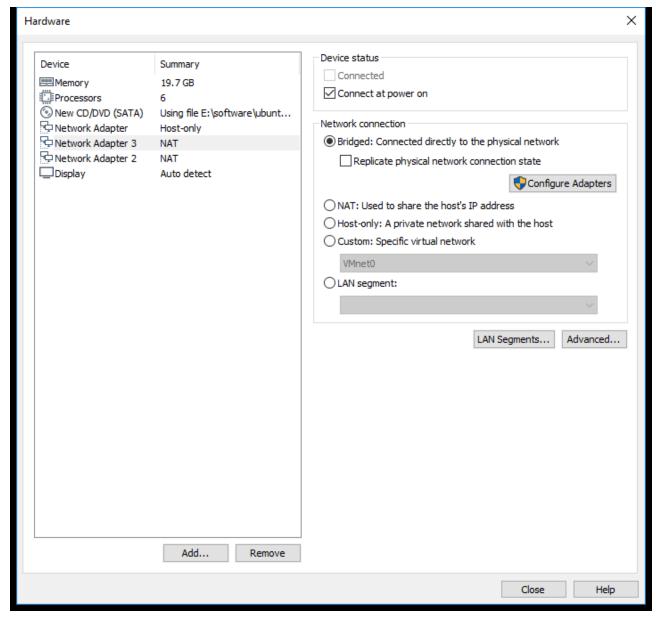


Figure 8. Network adapter settings

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

Automatic Bridging Settings	×
Select the host network adapter(s) you want to automatically bridge:	
☑ Dell GigabitEthernet	
Microsoft Wi-Fi Direct Virtual Adapter #4	
Microsoft Wi-Fi Direct Virtual Adapter #3	
☑ Intel(R) Wireless-AC 9462 #2	
☐ VirtualBox Host-Only Ethernet Adapter	
Realtek PCIe GBE Family Controller #2	
Bluetooth Device (Personal Area Network) #2	
OK Cancel Help	

Figure 9. Bridged configuration

9. Once configuration is done, click on close

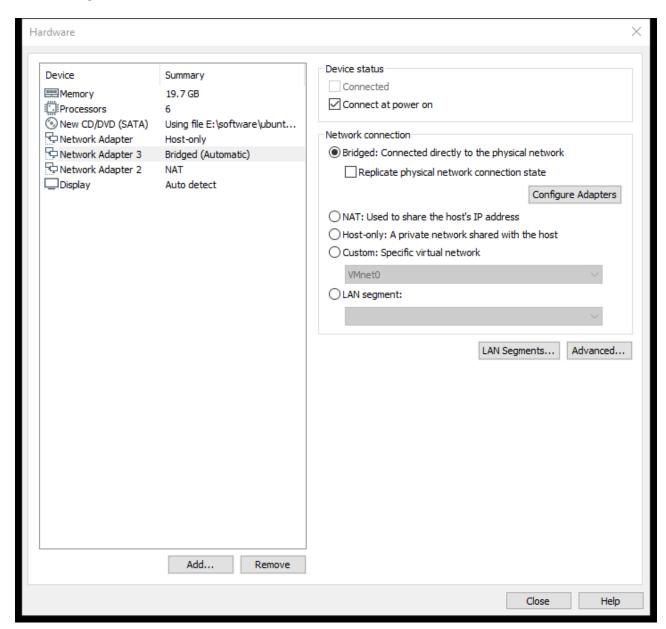


Figure 10. Final harwardware settings

10. click on finsh

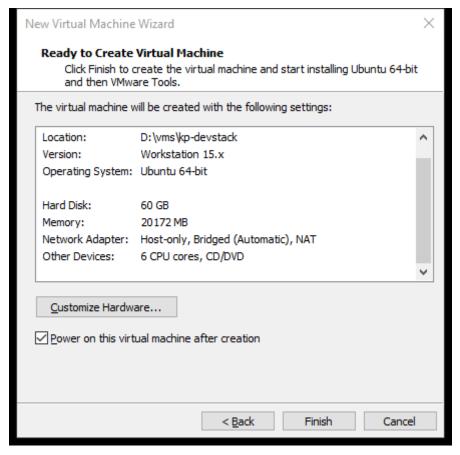


Figure 11. VM summary

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.

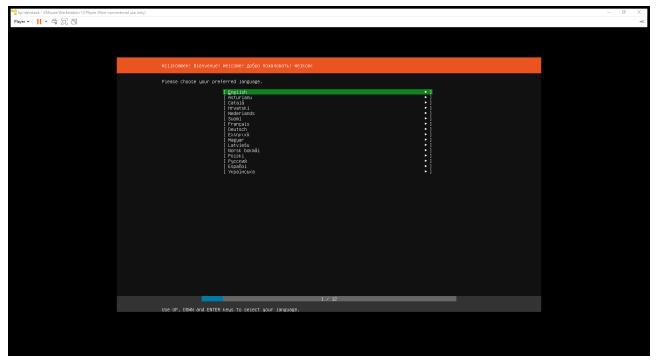


Figure 12. os setup language wizard

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*.

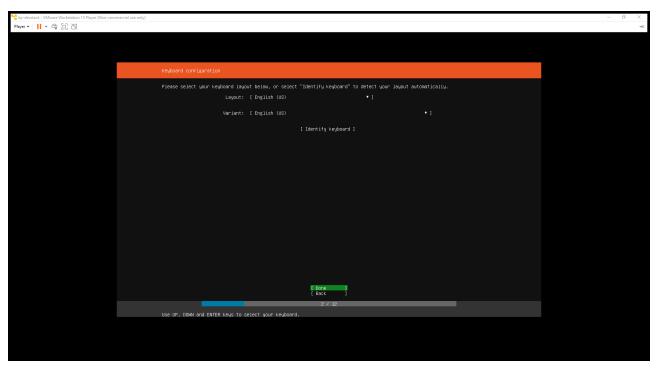


Figure 13. os setup keyboard layout wizard

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

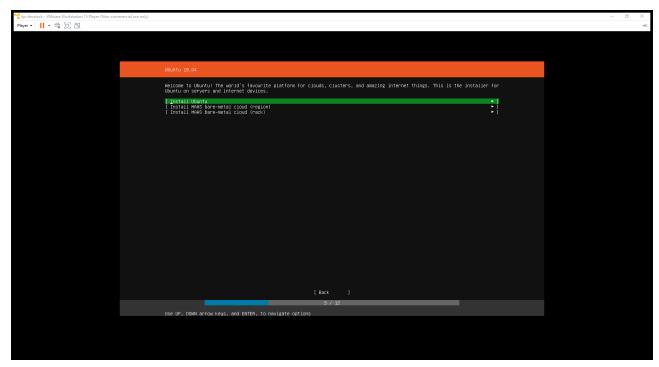


Figure 14. os setup network settings wizard

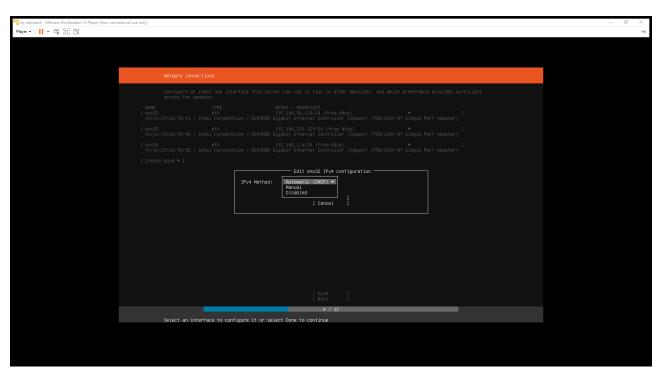


Figure 15. static ip settings wizard

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

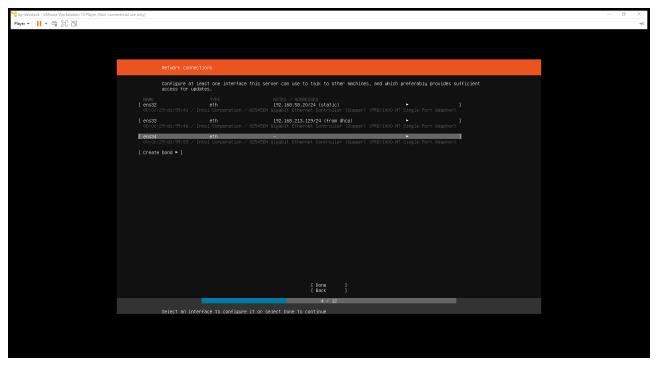


Figure 16. interface settings summary

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

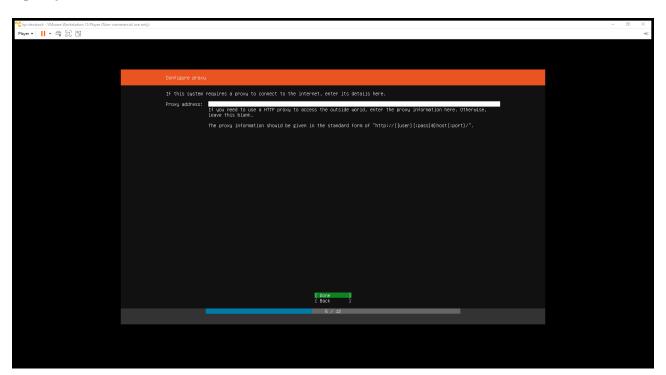


Figure 17. proxy settings wizard

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

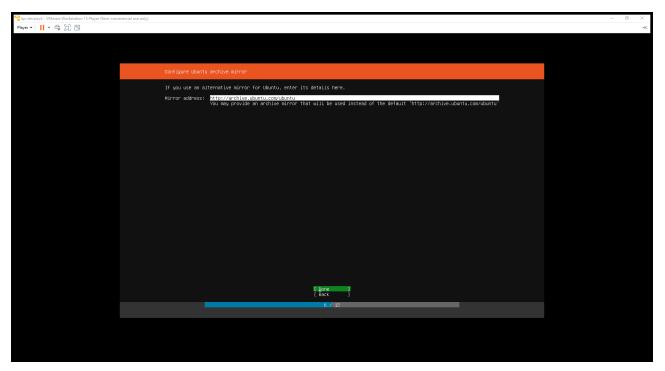


Figure 18. ubuntu archive settings wizard

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* 

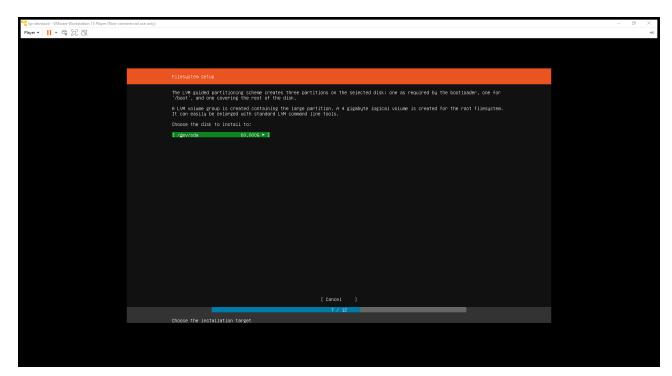


Figure 20. filesystem setup wizard



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  $\rightarrow$  -vg  $\rightarrow$ -lv by pressing *up* arrow and then press *enter*, select option edit from drop down and update the value to entire drive

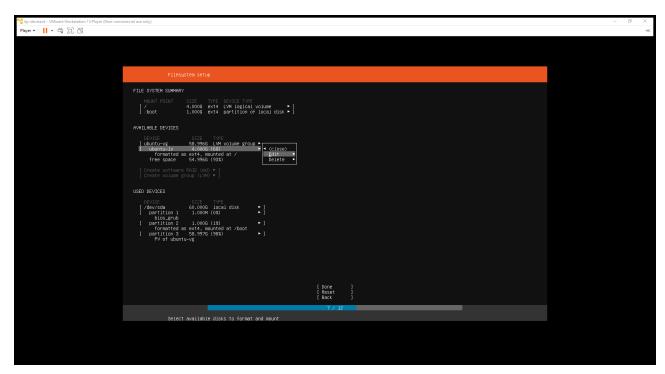


Figure 21. LVM configuration wizard

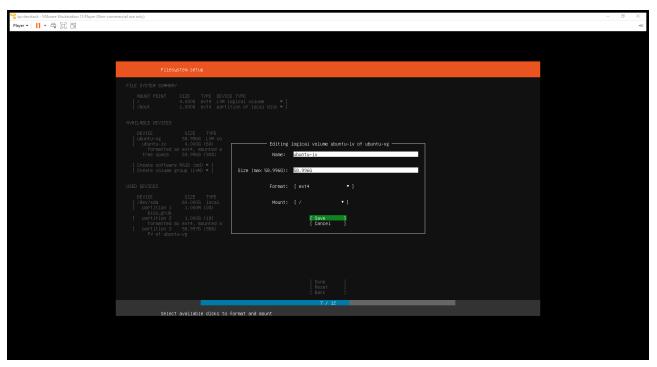


Figure 22. LVM configuration wizard

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

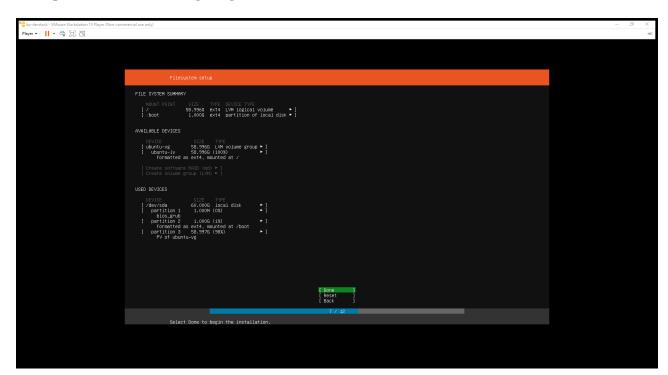


Figure 23. File system configuration summary

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

			_
kp-devstack - VMware Workstation 15 Player (Non-commerci	al use only)	- 0	×
Player ▼       ▼ 号 囯 泡			<<
	Profile setup		
	11 of the Second		
	Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a		
	Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.		
	Your name:		
	Your server's name:		
	The name it uses when it talks to other computers.		
	Pick a username:		
	Choose a password:		
	Confirm your password:		
	7 / 12		
	Install in progress: acquiring and extracting image from cp:///media/filesystem –		

Figure 24. Profile setup wizard

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

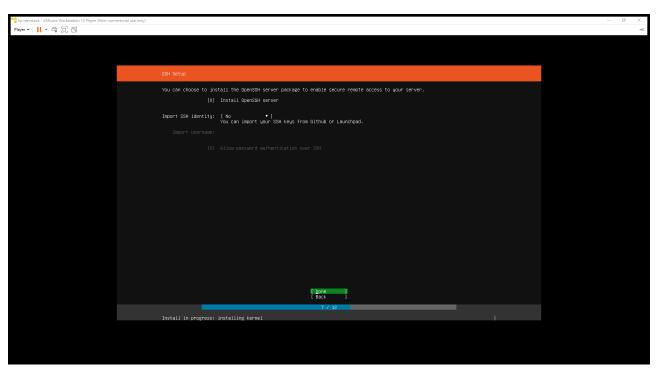


Figure 25. SSH server configuration

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

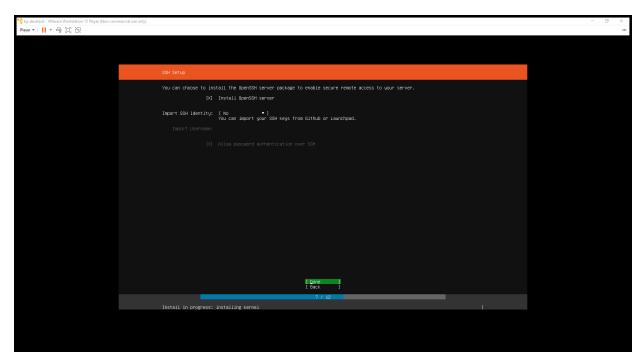


Figure 26. Installation summary