

# **Enterprise Standards and Best Practices for IT Infrastructure**

## **Lab Report**

**Lab 04 – Installation of ESXi 5 (VMware Hypervisor Installation)**

**Lab 05 – Creating a Virtual Machine on the Hypervisor**

**IT 120 62 966 – S.H.U.S.Wickramarathne**

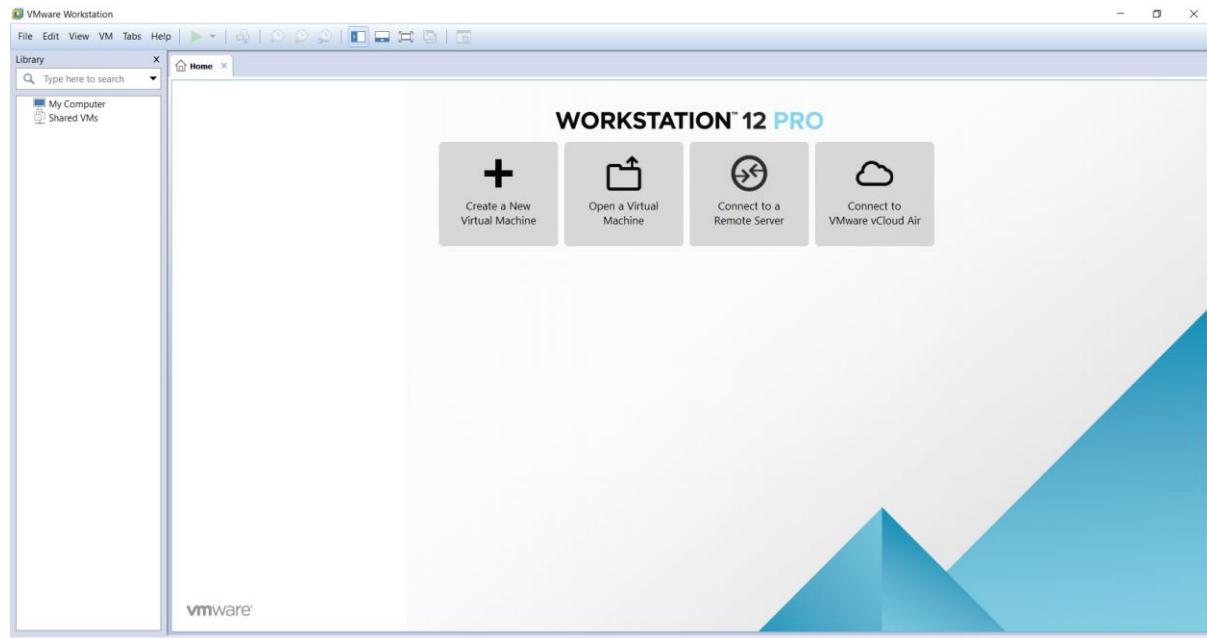
**WEEKEND IT**



**Sri Lanka Institute of Information Technology**  
**B.Sc. Special (Honors) Degree in Information Technology**  
**Specialized in Information Technology**

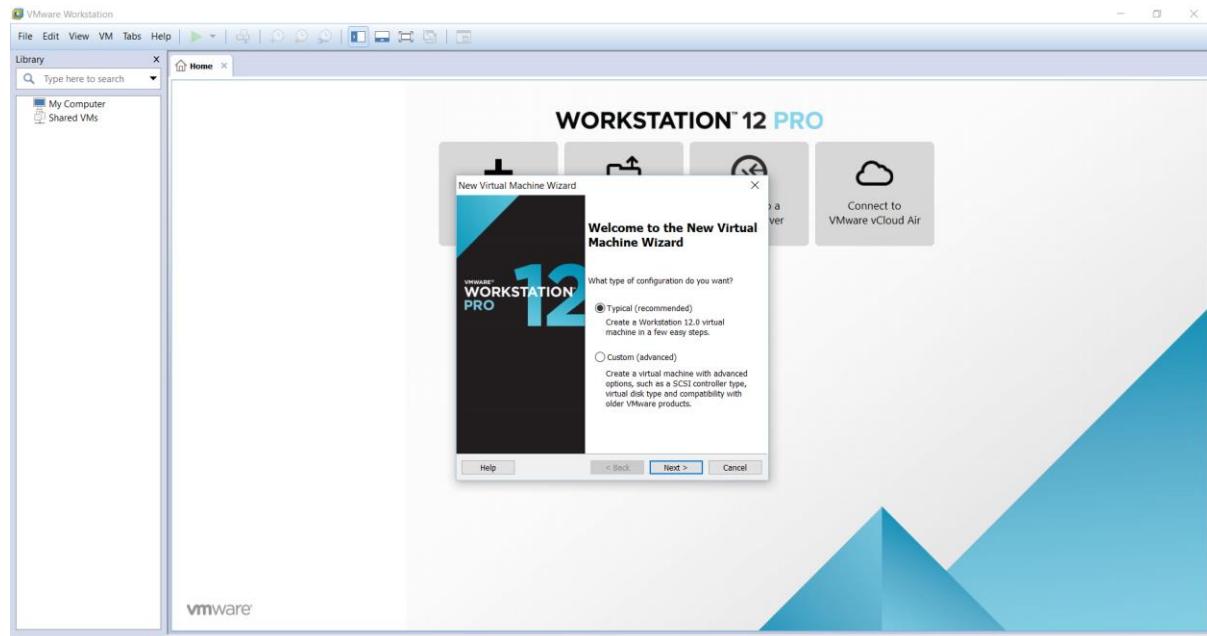
## Lab 04 - Installation of ESXi 5 (VMware Hypervisor Installation)

**Step 01:** Install VMware Workstation to get started with installing ESXi 5.



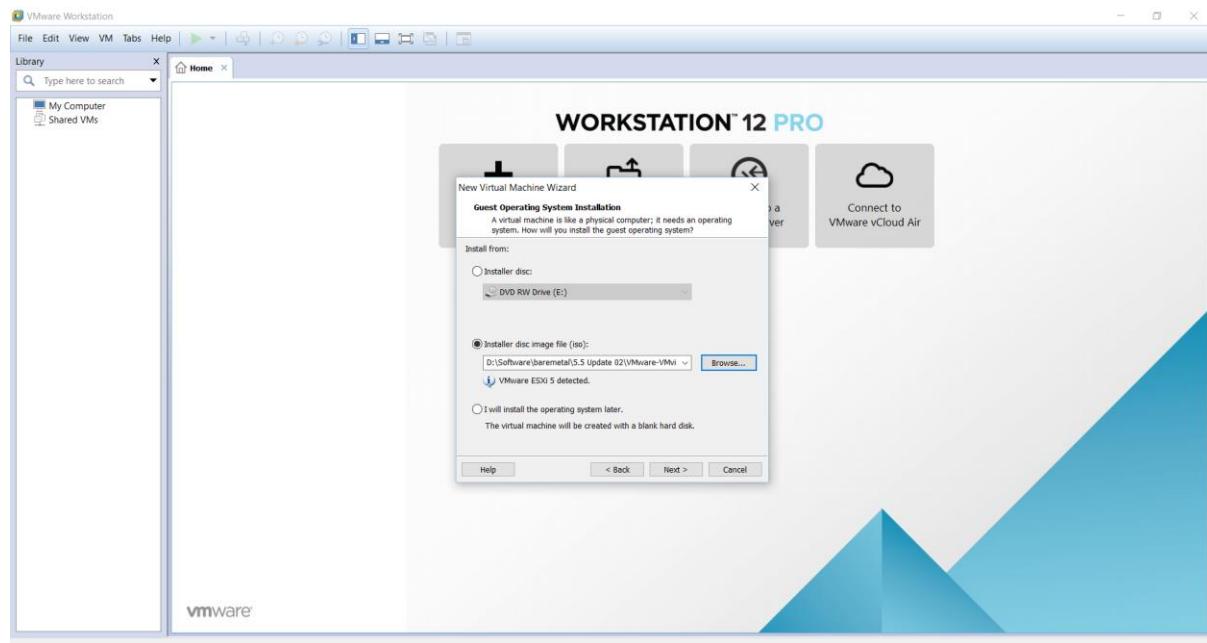
**Step 02:** Select 'Create a New Virtual Machine' from 'Home' tab.

Choose 'Typical' and click 'Next'.



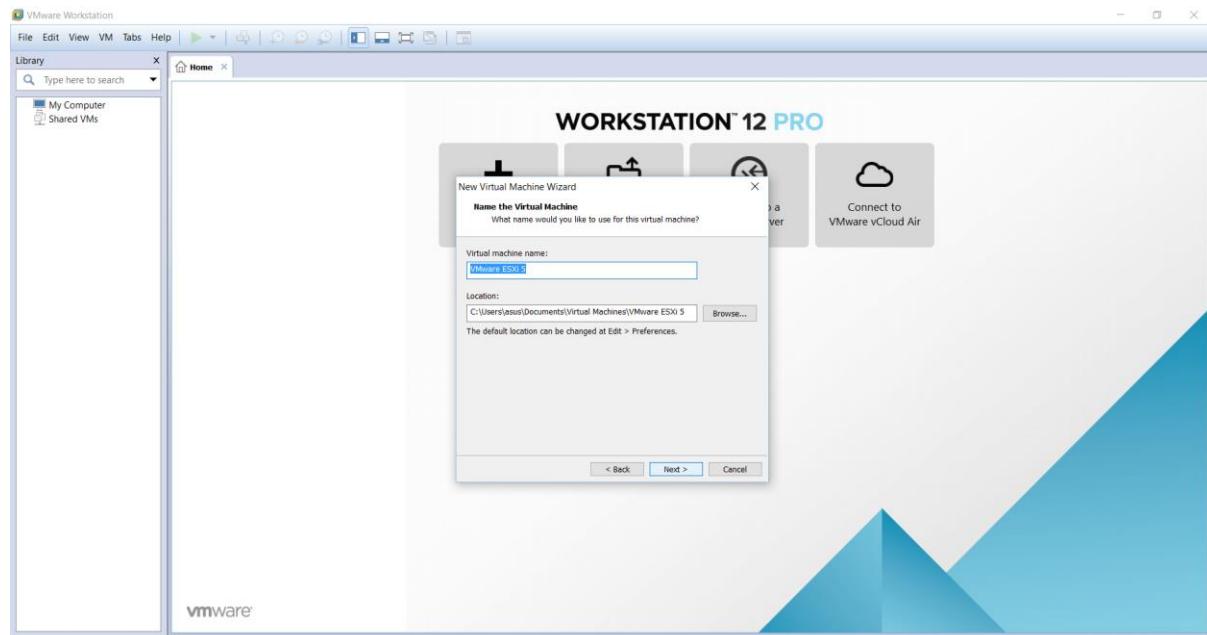
**Step 03:** Select ‘Installer disk image file (iso)’ from next window.

Browse for the ESXi 5 iso and click ‘Next’.



**Step 04:** Provide a name for the virtual machine.

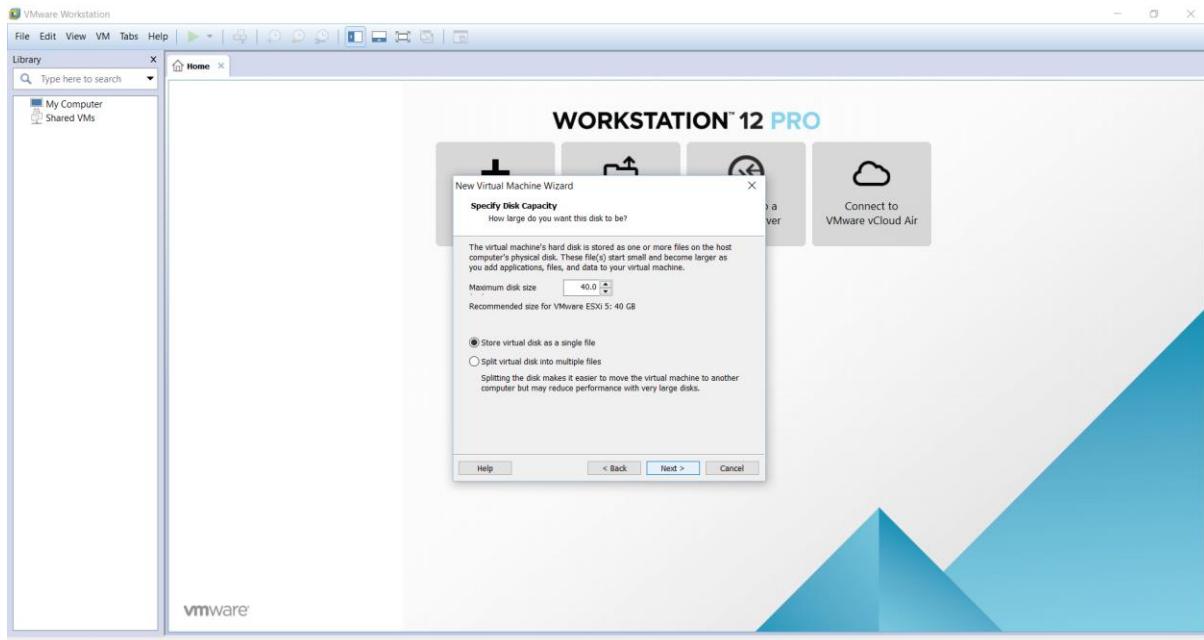
Browse for a location to save and click ‘Next’.



**Step 05:** Specify the disk capacity.

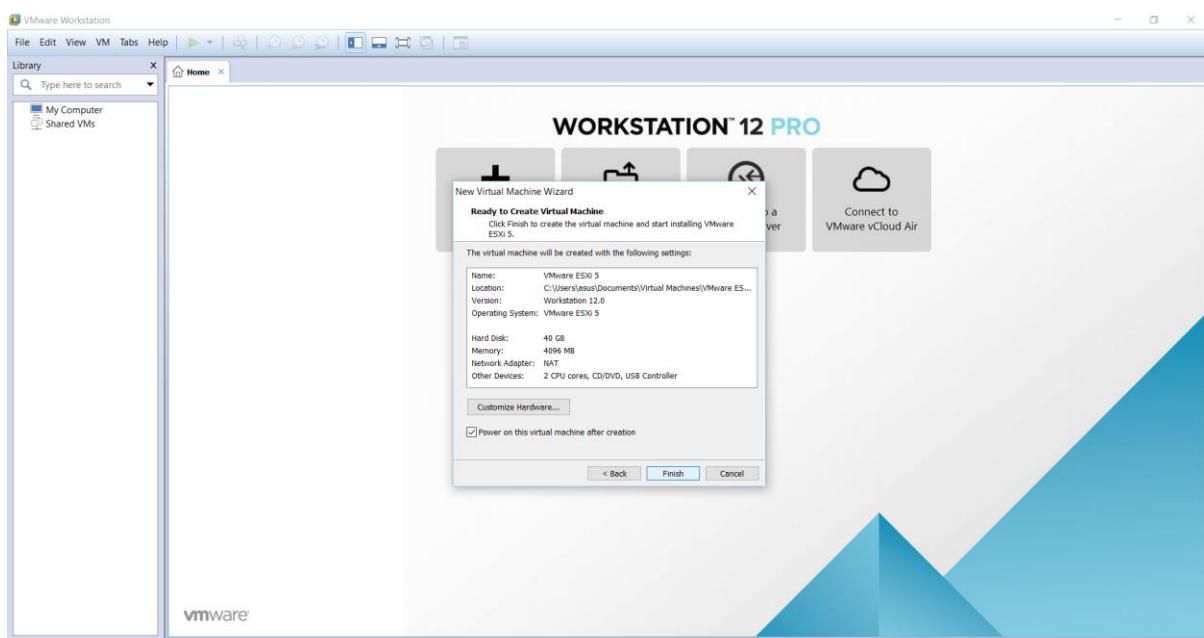
Keep the recommended size for VMware ESXi 5 as it is. (40 GB)

Choose ‘Store virtual disk as a single file’ and click ‘Next’.



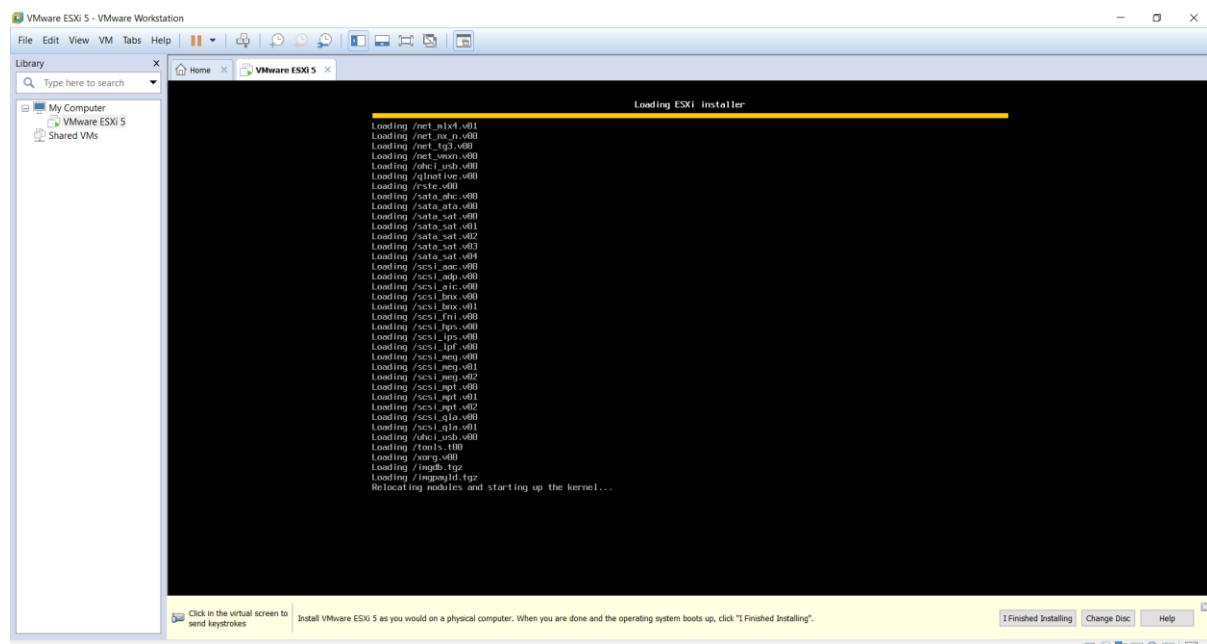
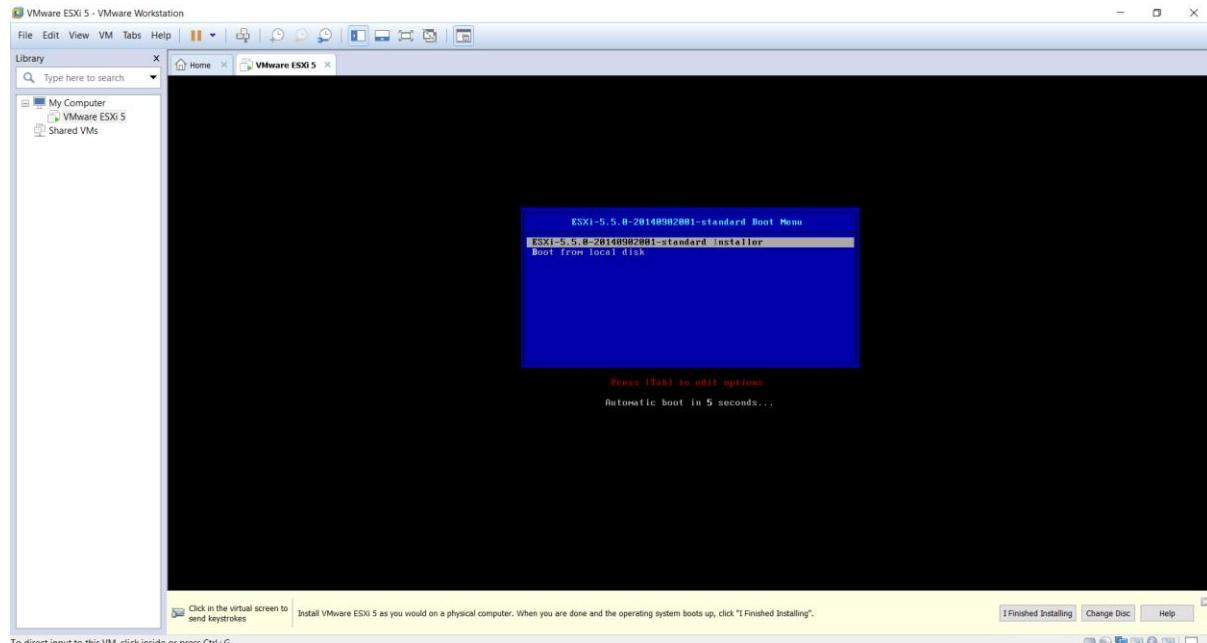
**Step 06:** Select ‘Power on this virtual machine after creation’.

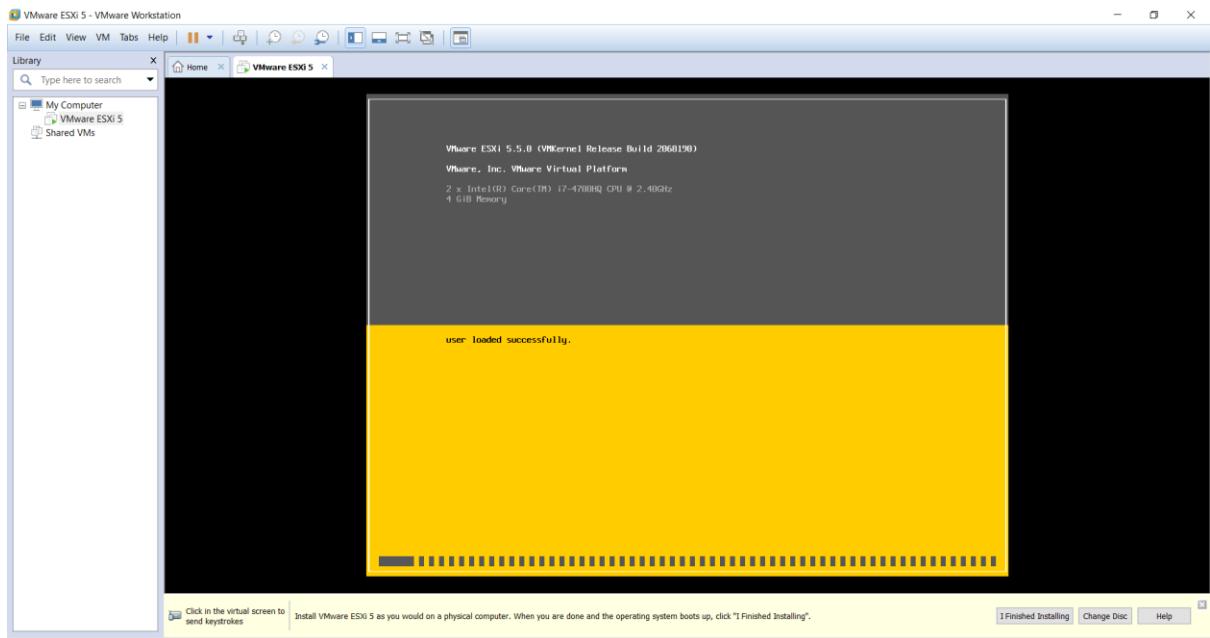
Check the settings and click ‘Finish’.



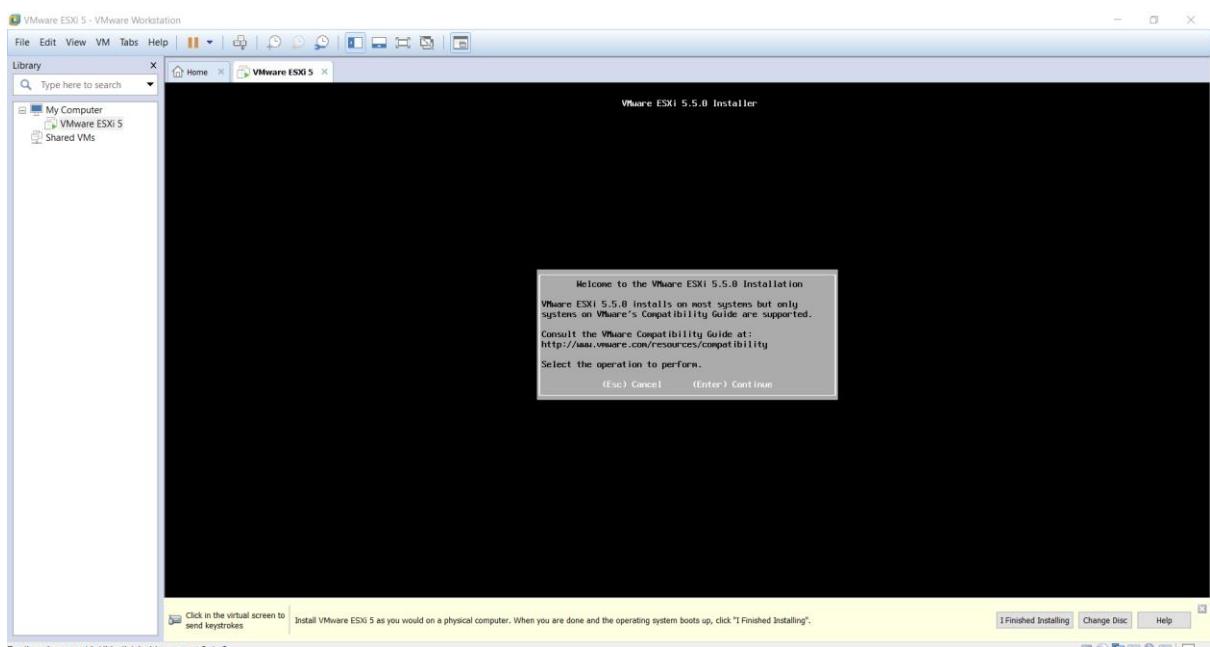
**Step 07:** Wait 5 seconds for automatic boot.

Then the installation will continue.

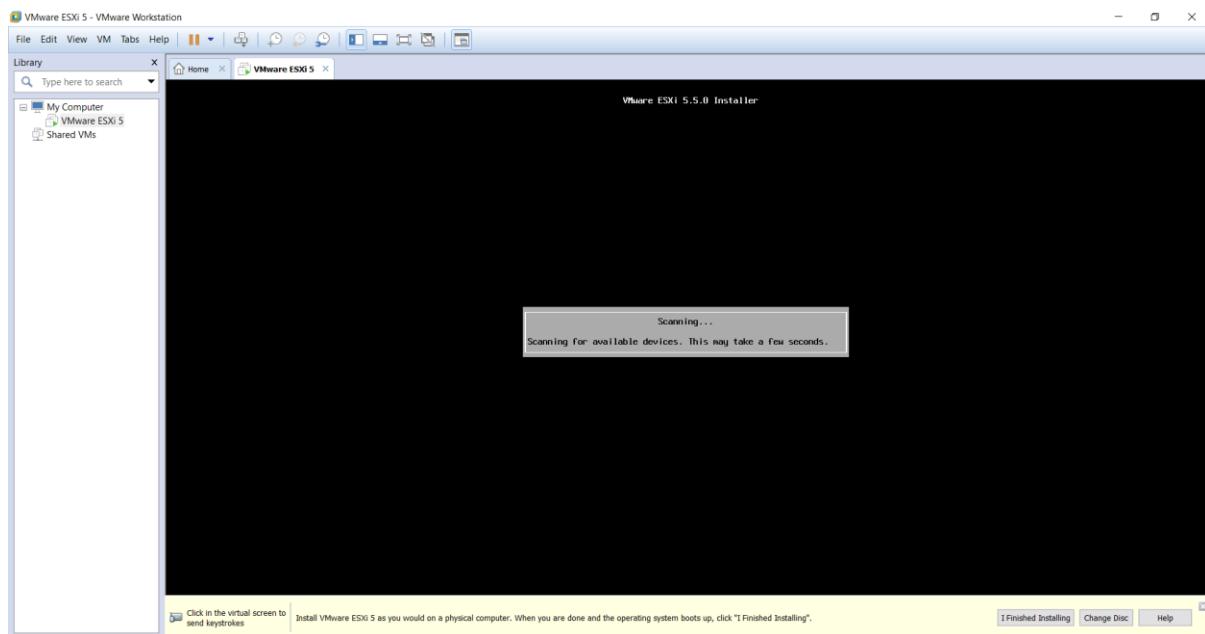
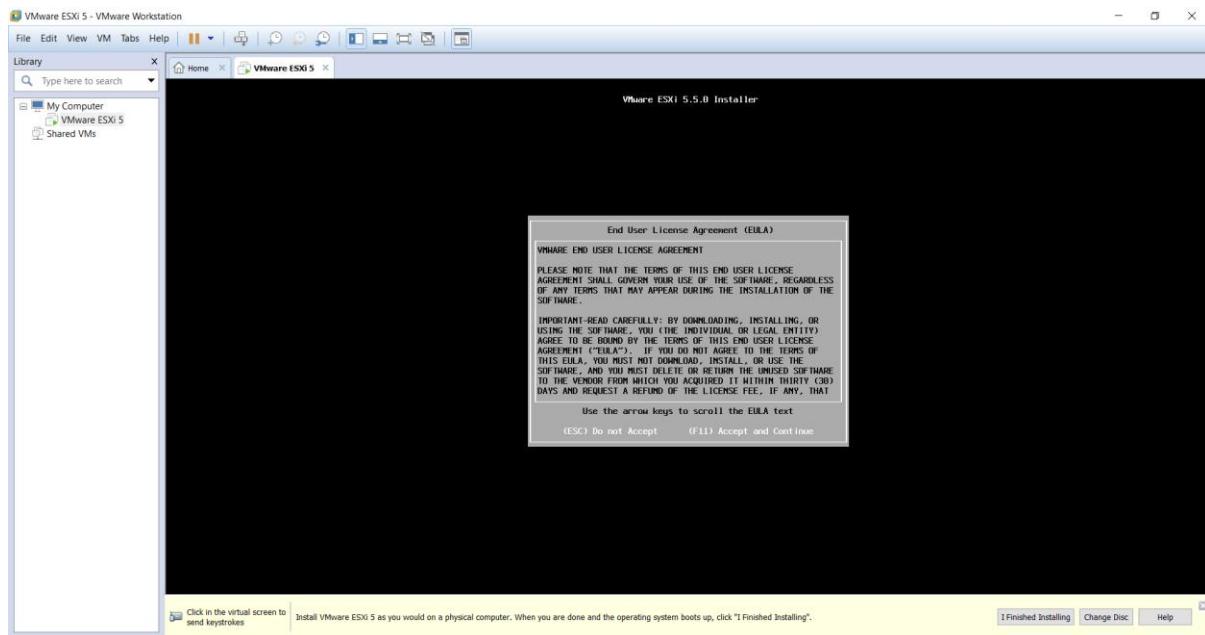




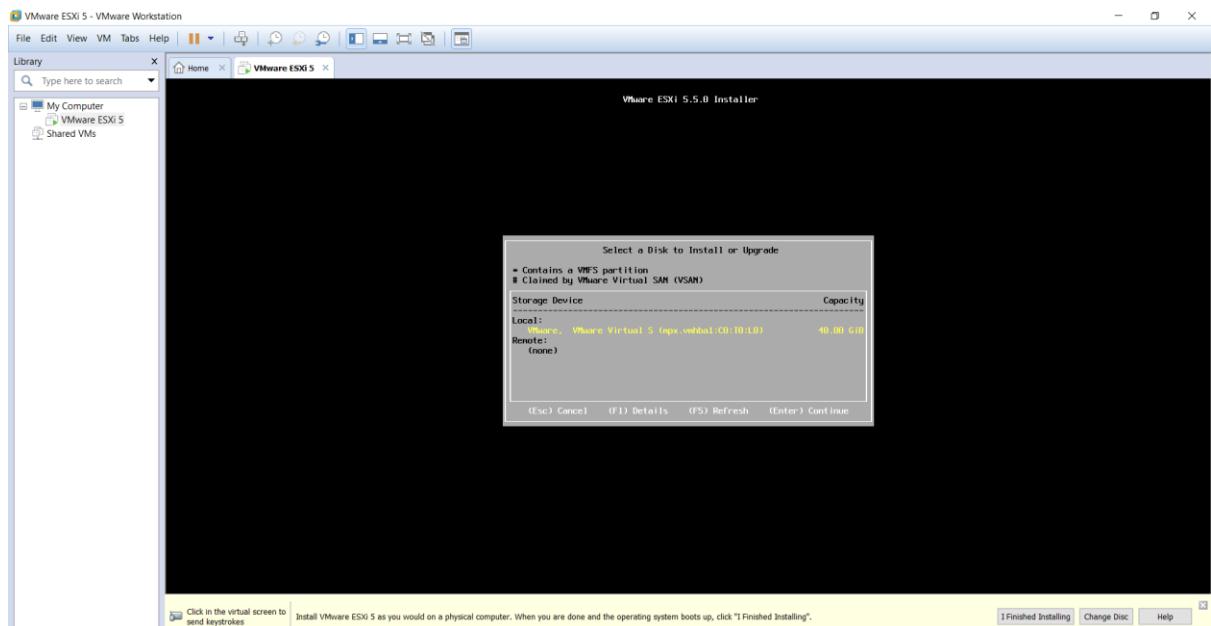
## Step 08: Press 'Enter' button to continue installation.



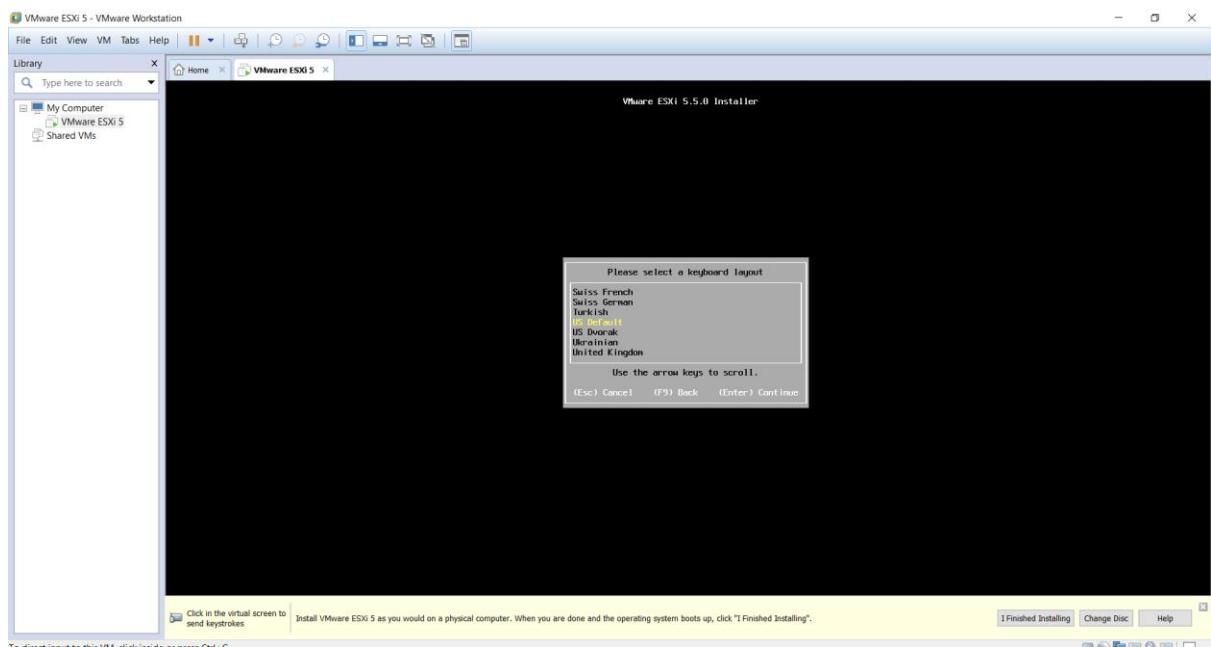
**Step 09:** Press ‘F11’ to accept VMware End User License Agreement and continue.



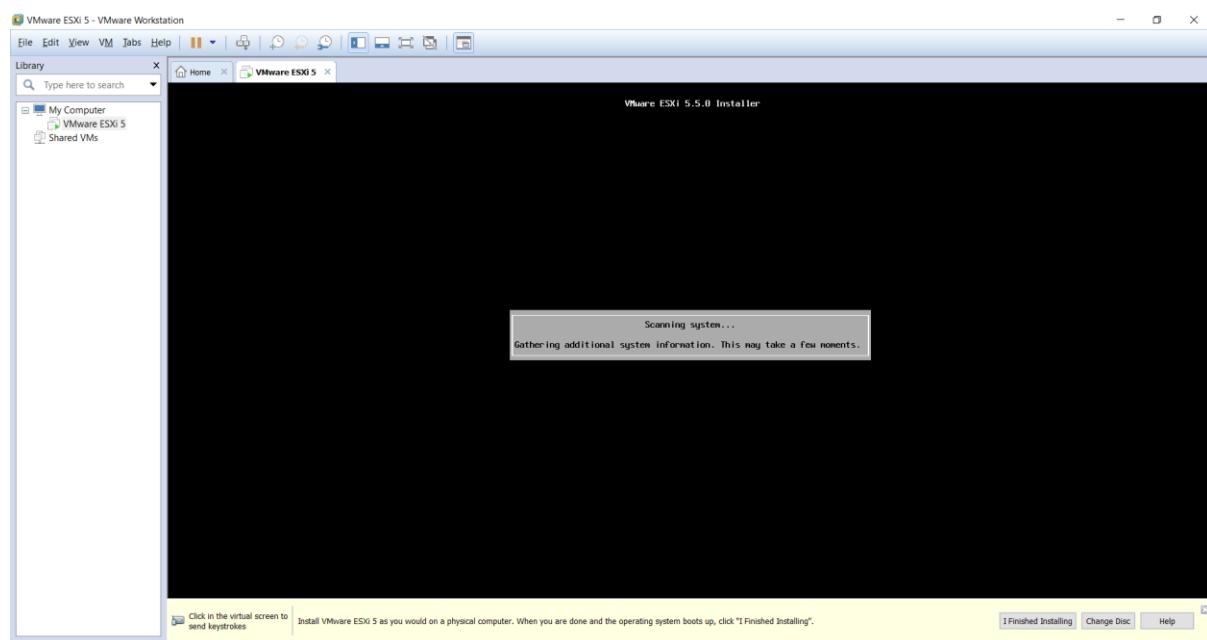
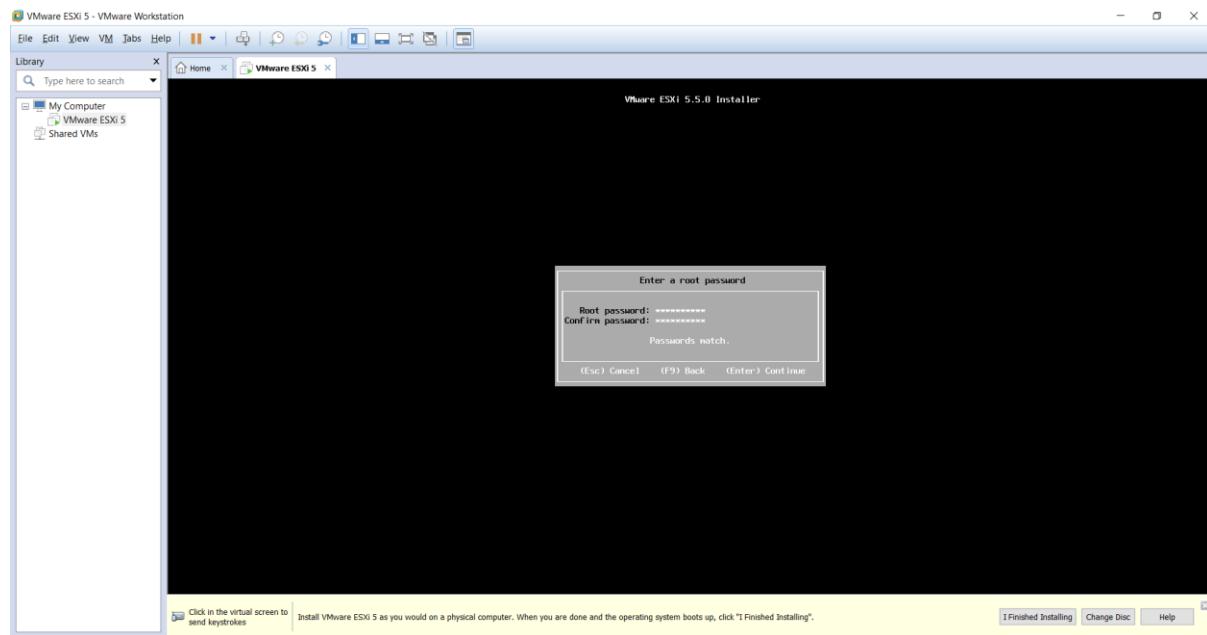
**Step 10:** Press ‘Enter’ to continue.



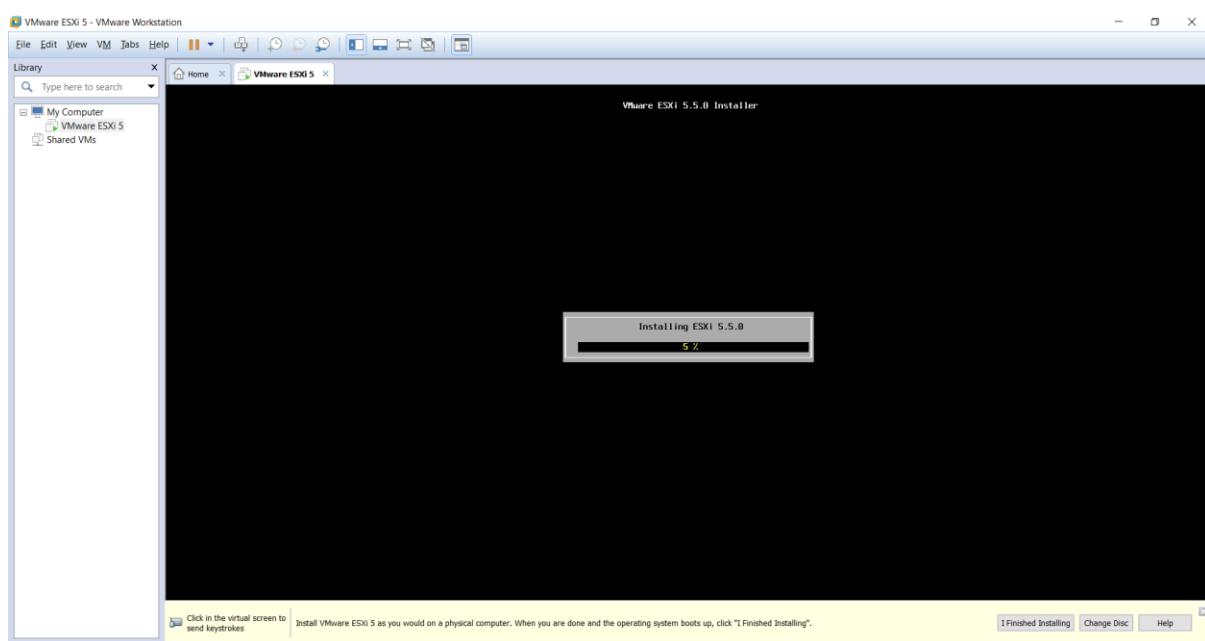
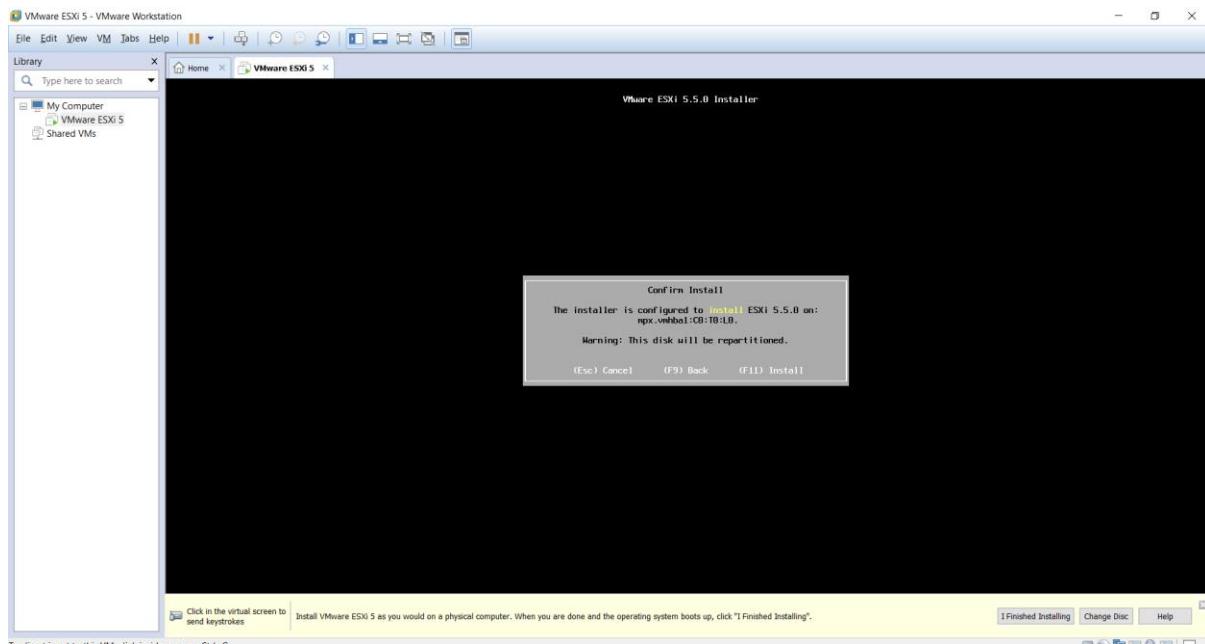
**Step 11:** Select the keyboard layout and press ‘Enter’ to continue.



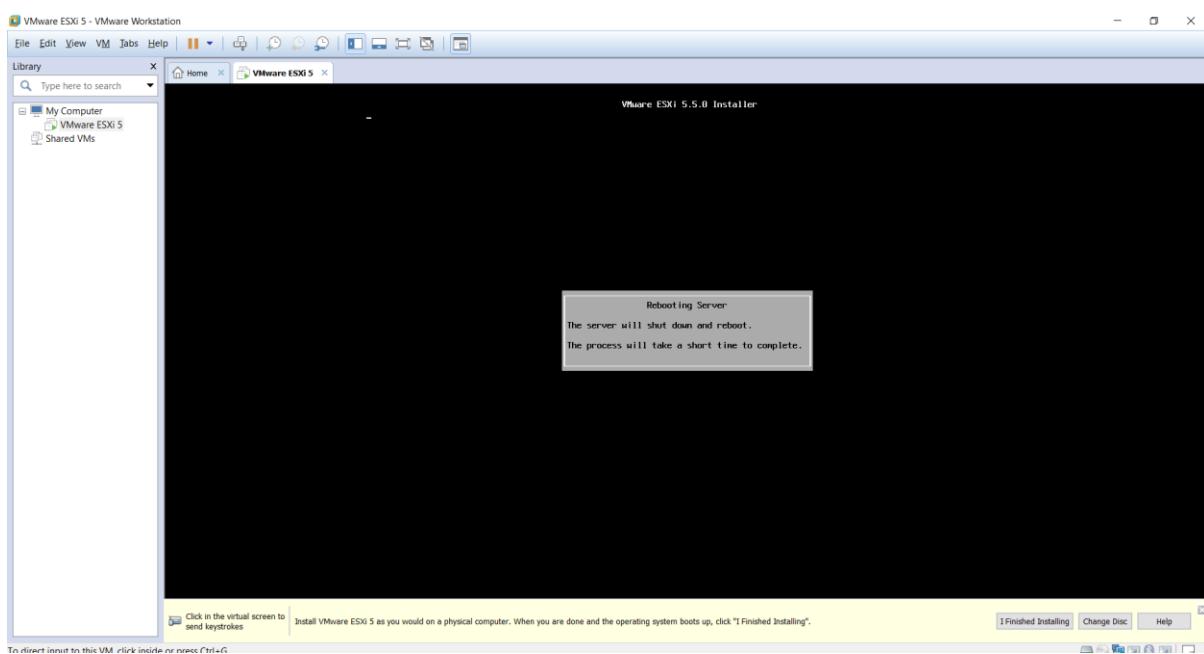
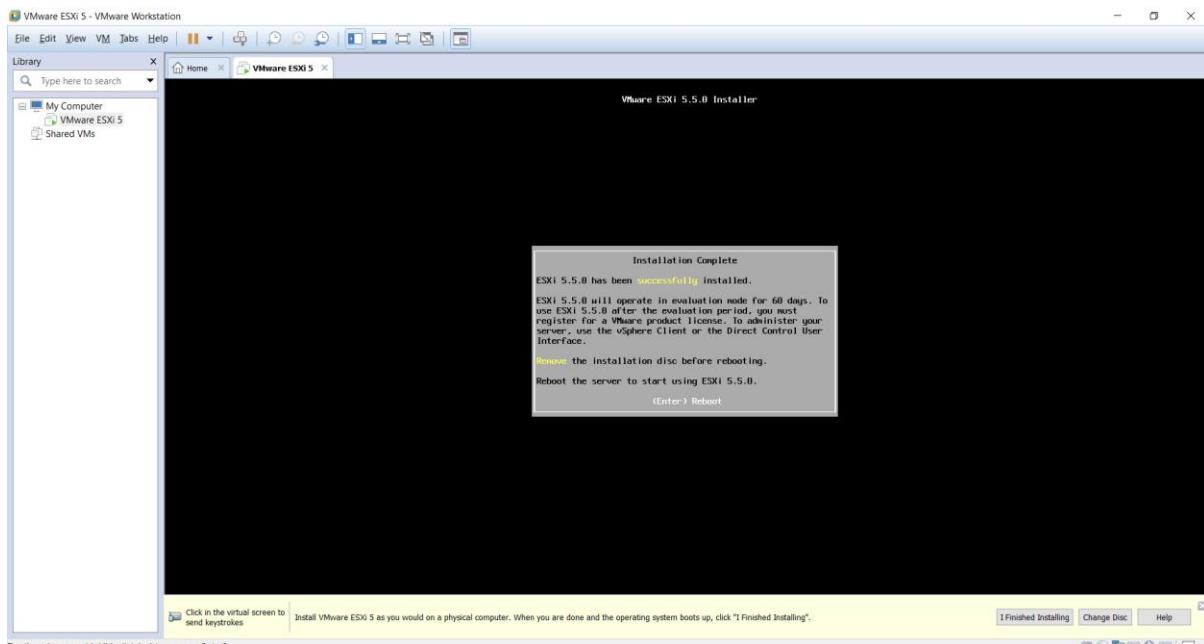
**Step 12:** Provide a root password and press ‘Enter’ to continue.

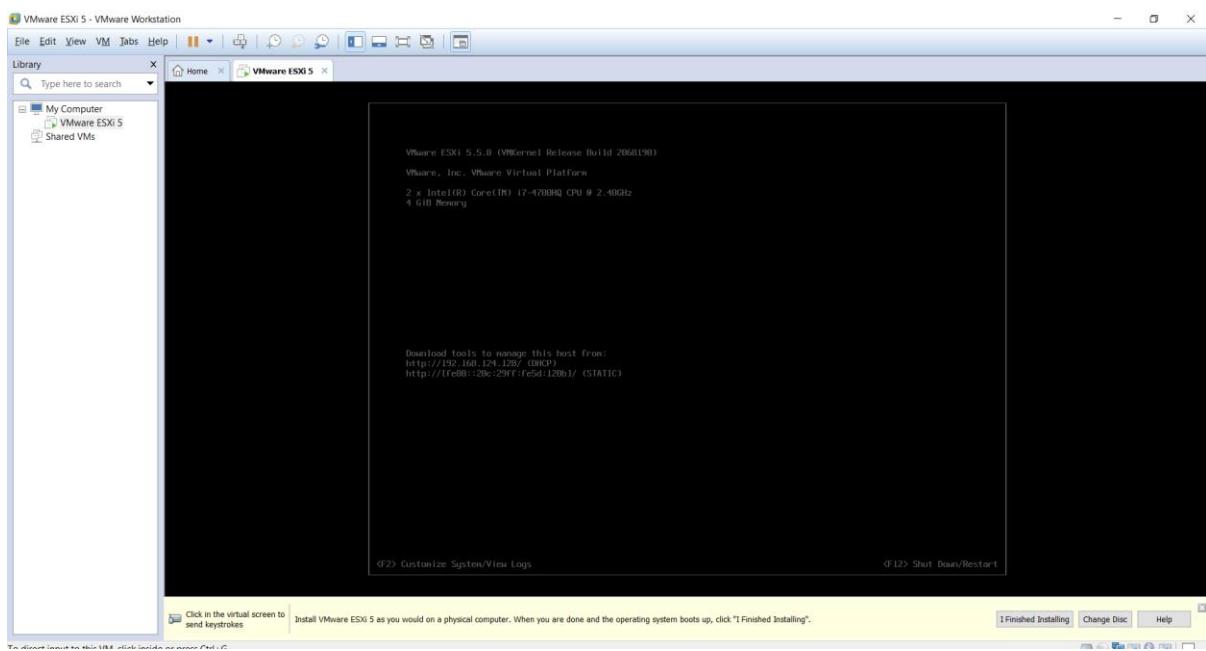
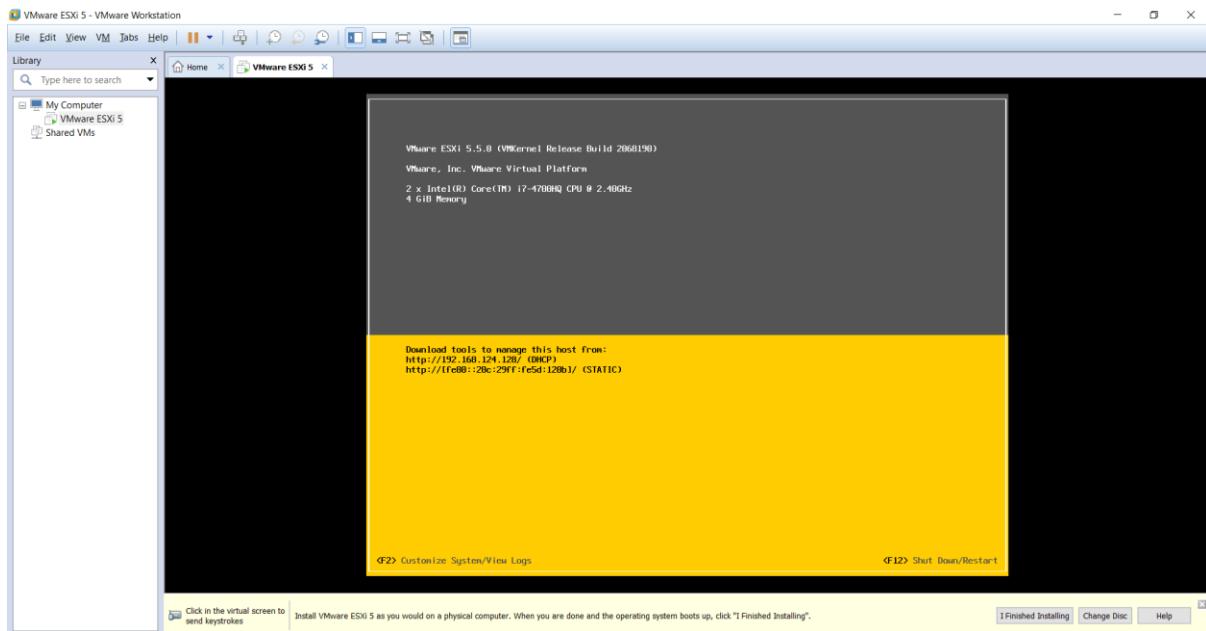


**Step 13:** Press ‘F11’ to confirm install.



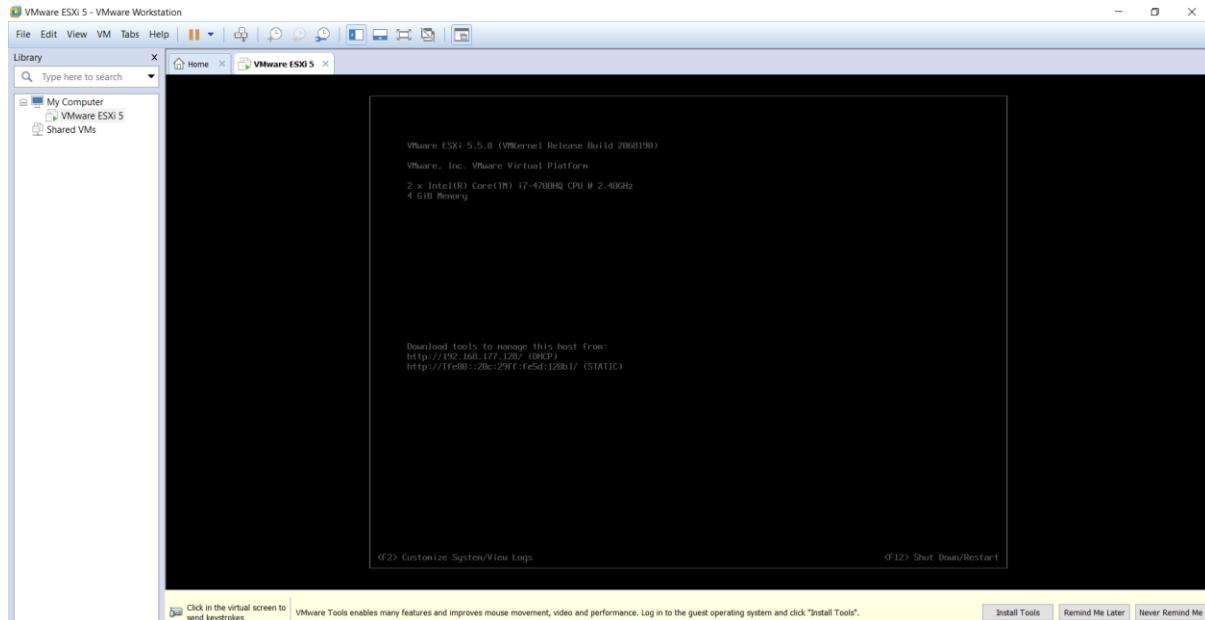
**Step 14:** Press ‘Enter’ to reboot from ‘Installation Complete’ window.





## Lab 05 - Creating a Virtual Machine on the Hypervisor

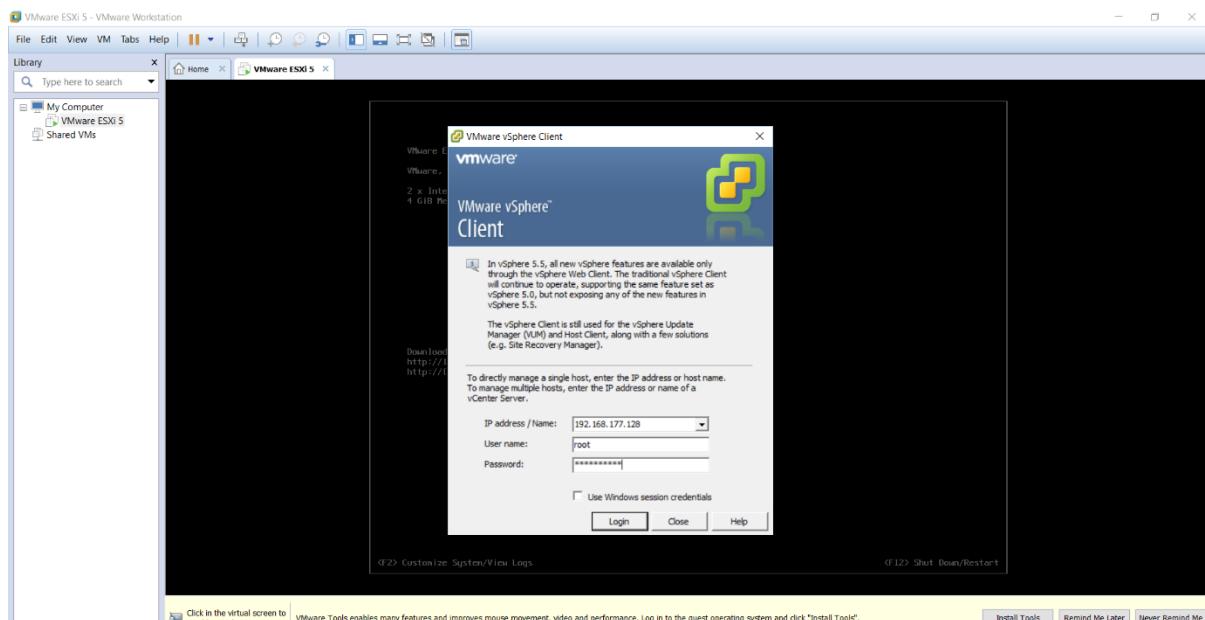
### **Step 01:** Power on ESXi 5 from VMware Workstation.



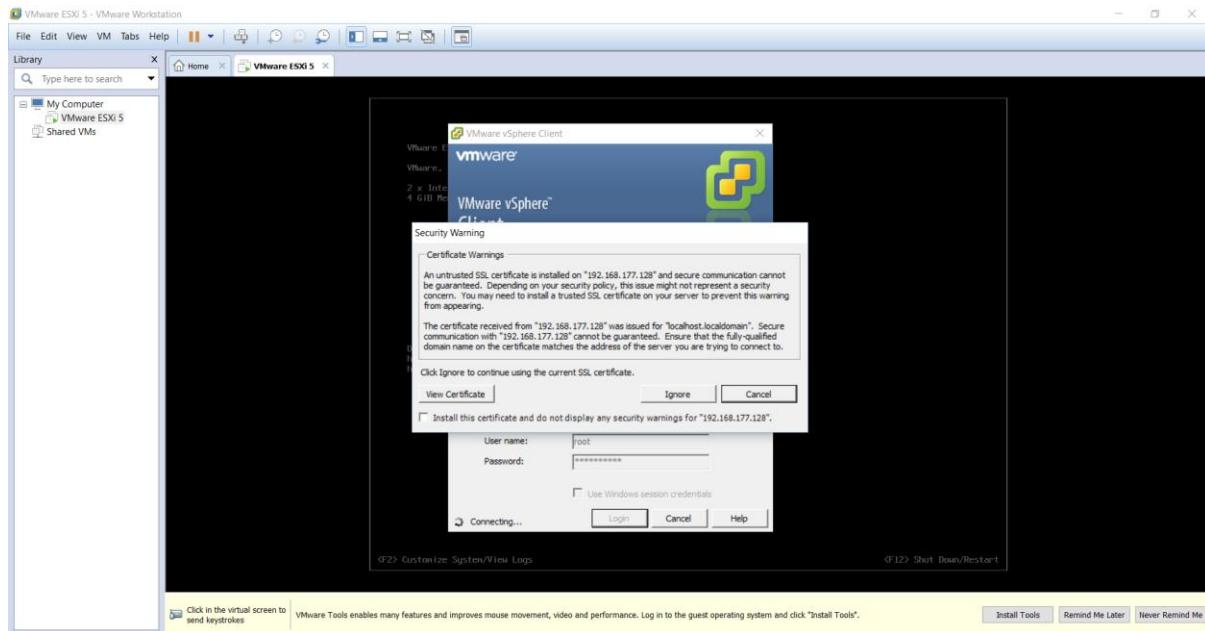
### **Step 02:** Install VMware vSphere Client software and start it.

Provide the IP address of ESXi 5 host, the root username and password.

Click 'Login'.

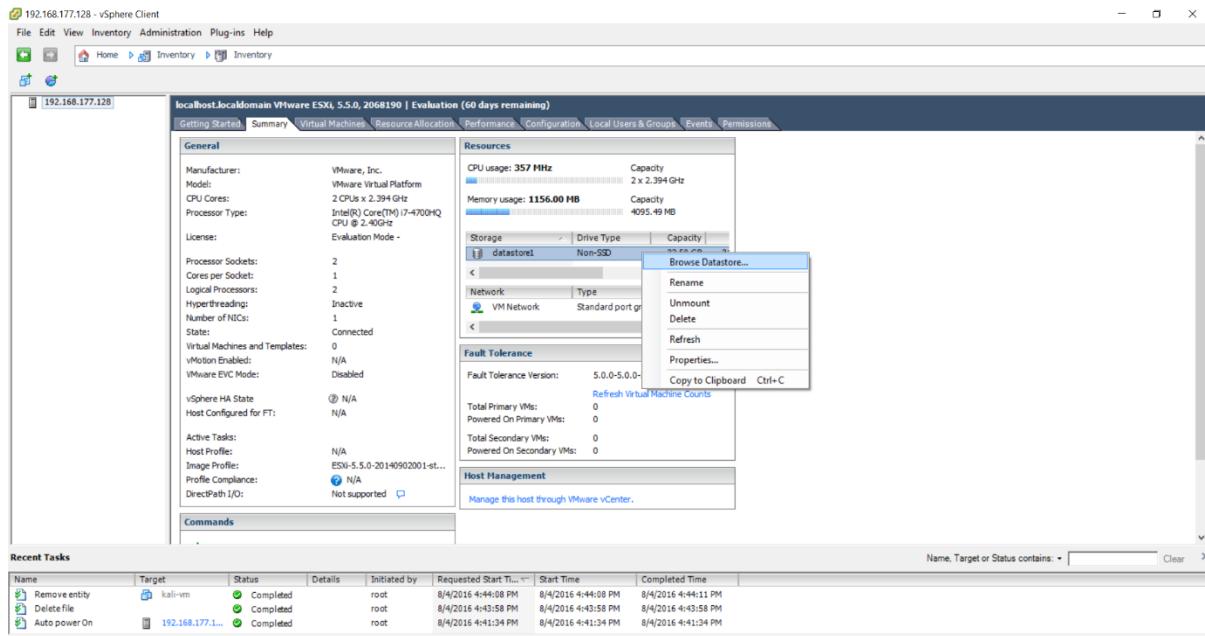


### Step 03: Ignore the SSL certificate security warning.

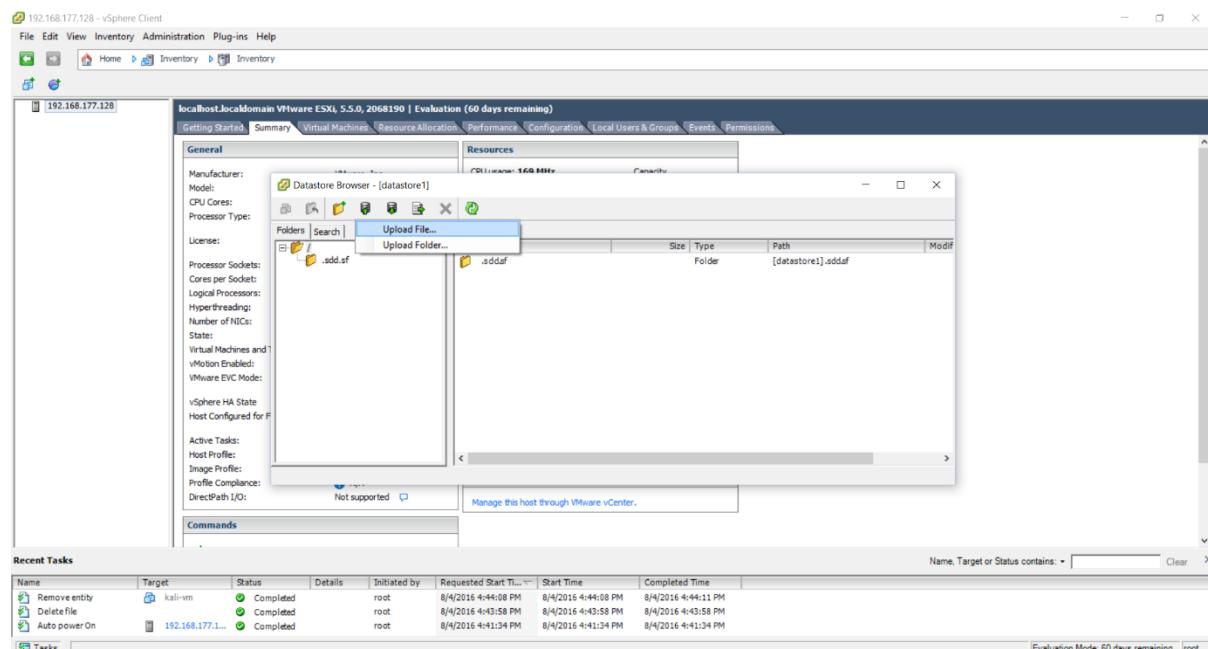


### Step 04: Go to the ‘Summary’ tab.

Right click on ‘datastore1’ from ‘Storage’ category and choose ‘Browse Datastore...’

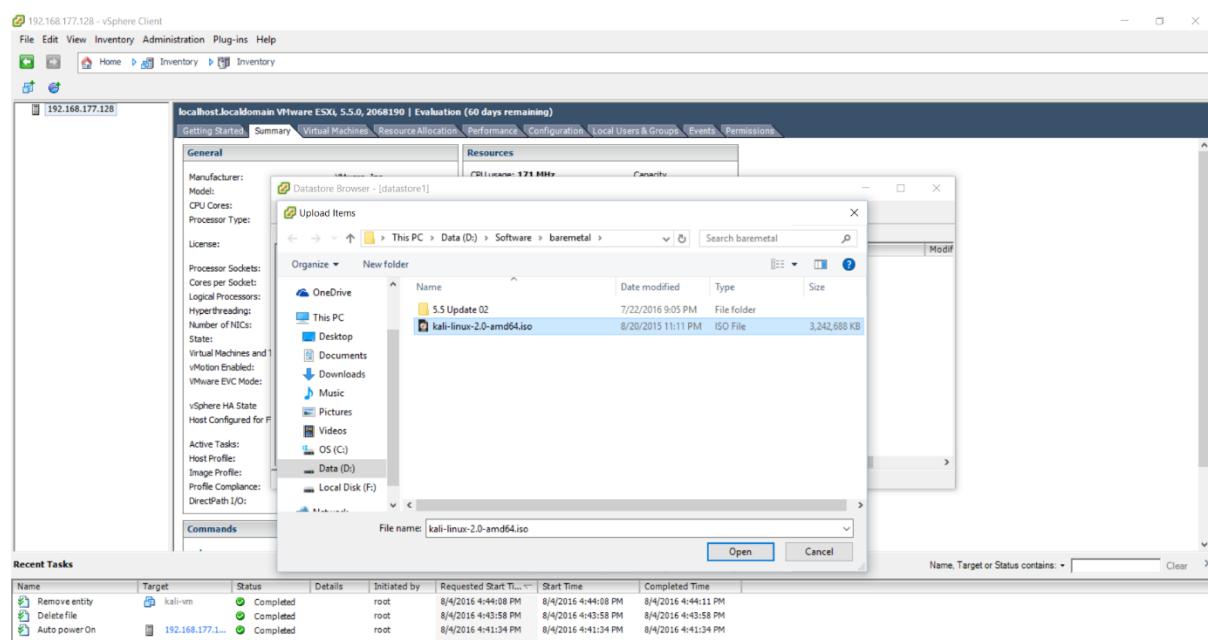


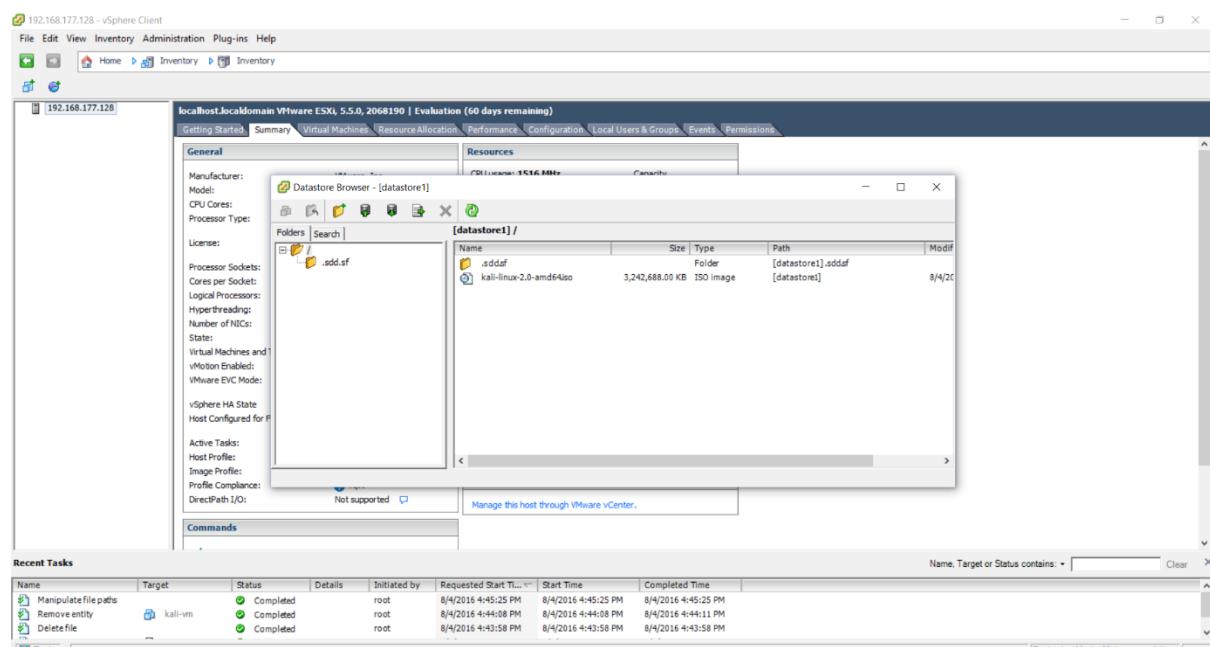
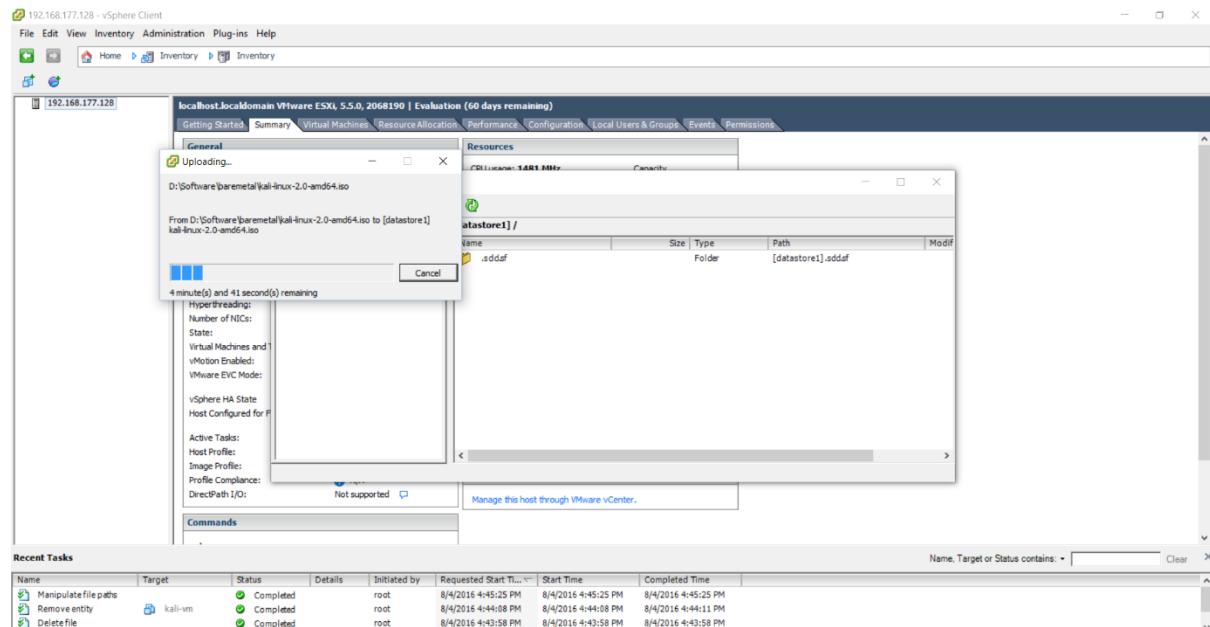
**Step 05:** Choose ‘Upload File’ from ‘Upload files to this datastore’ icon.



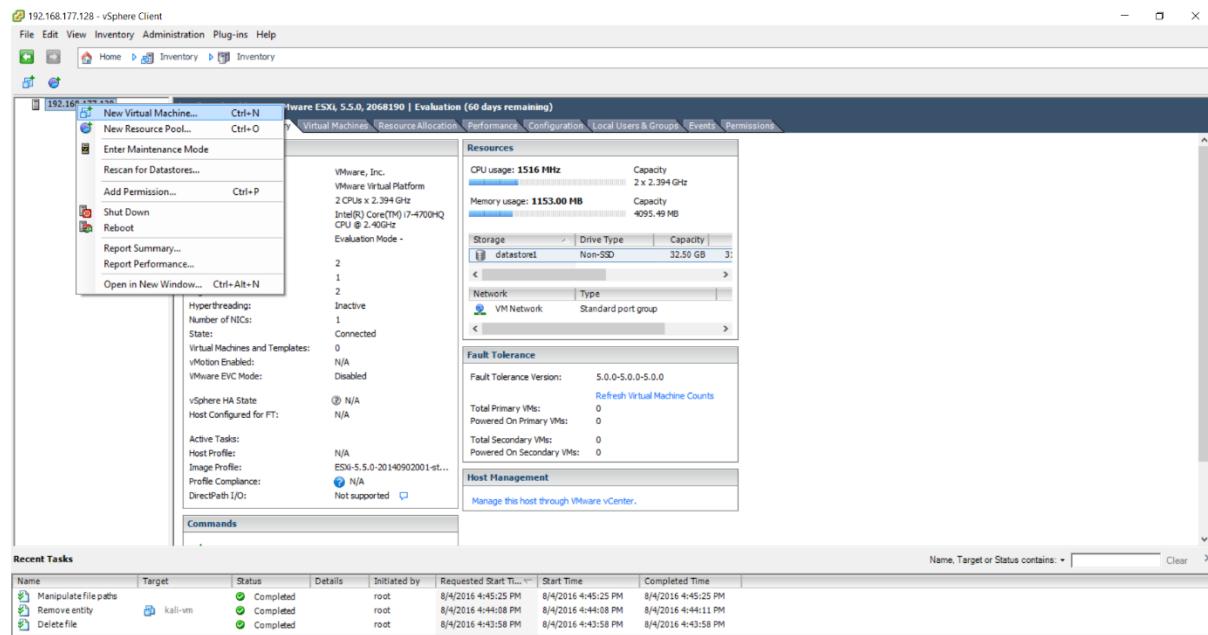
**Step 06:** Browse for the ISO file of an OS and open it.

Then close the window after uploading is finished.

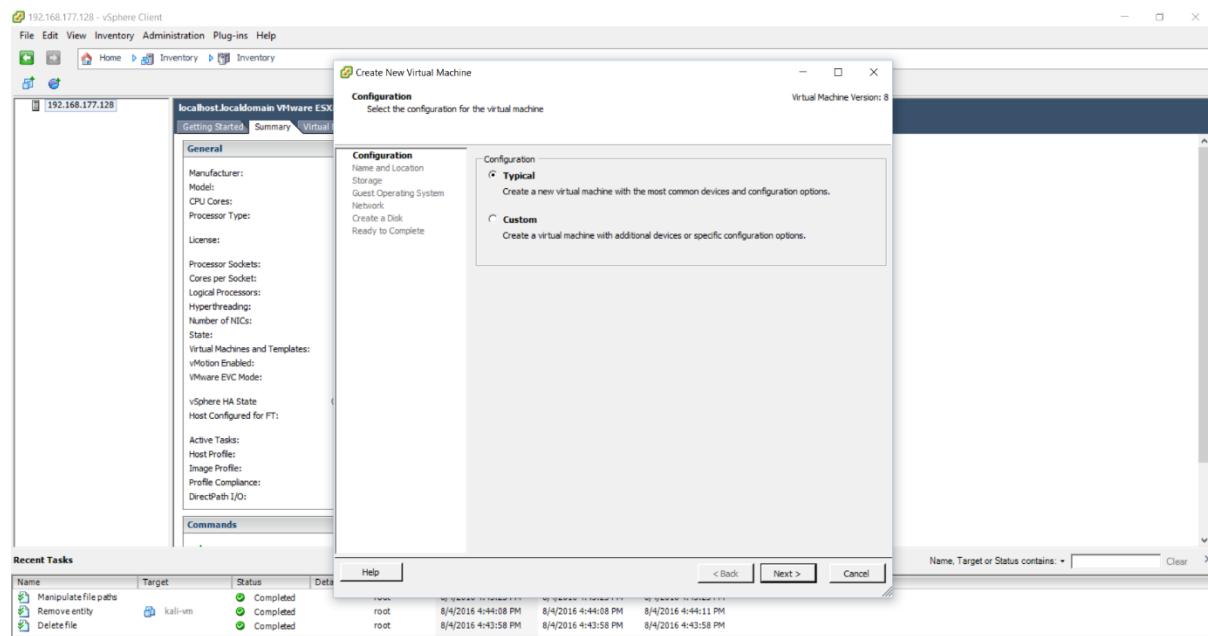




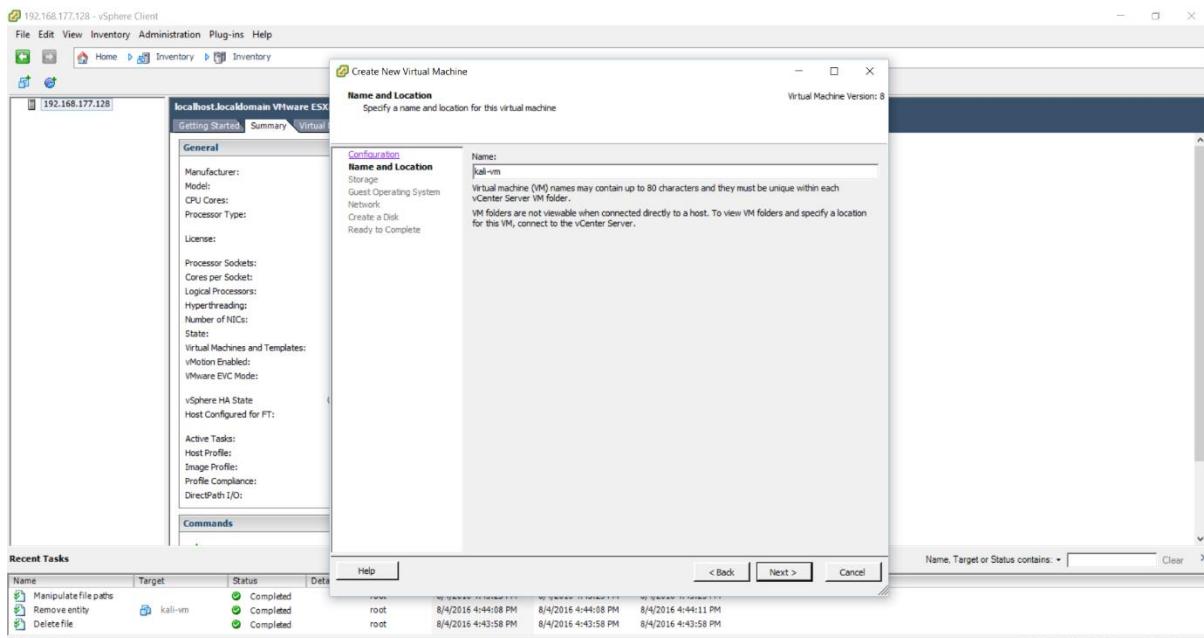
**Step 07:** Right click on the host and choose ‘New Virtual Machine’.



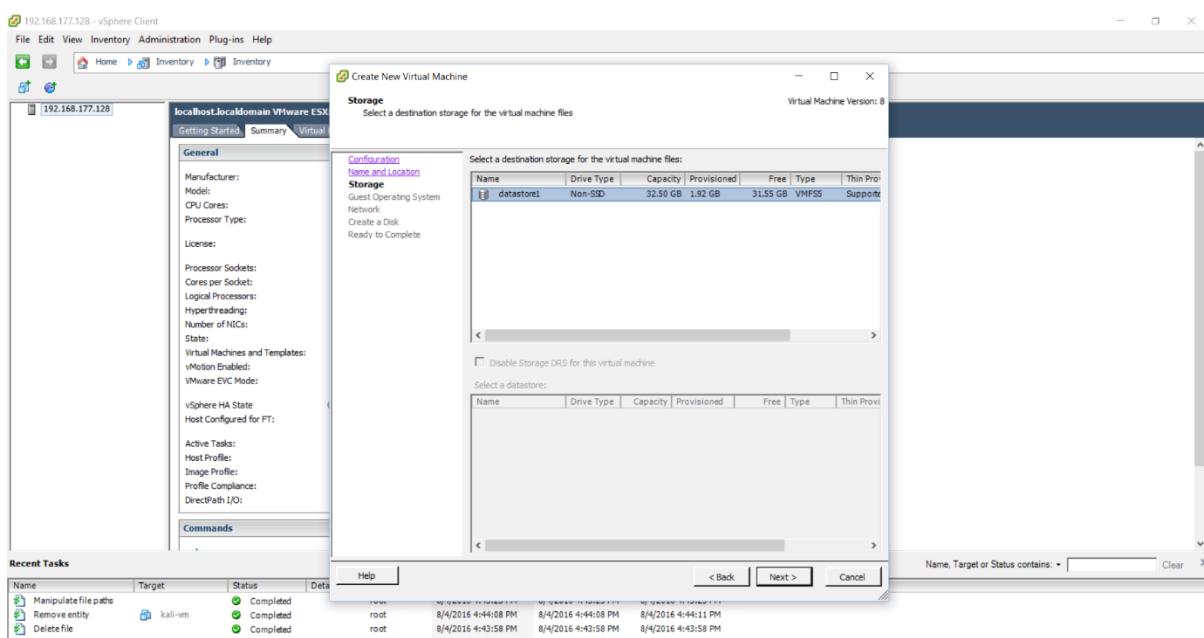
**Step 08:** Select ‘Typical’ under ‘Configuration’ and click ‘Next’.



**Step 09:** Provide a name for the virtual machine and click ‘Next’.

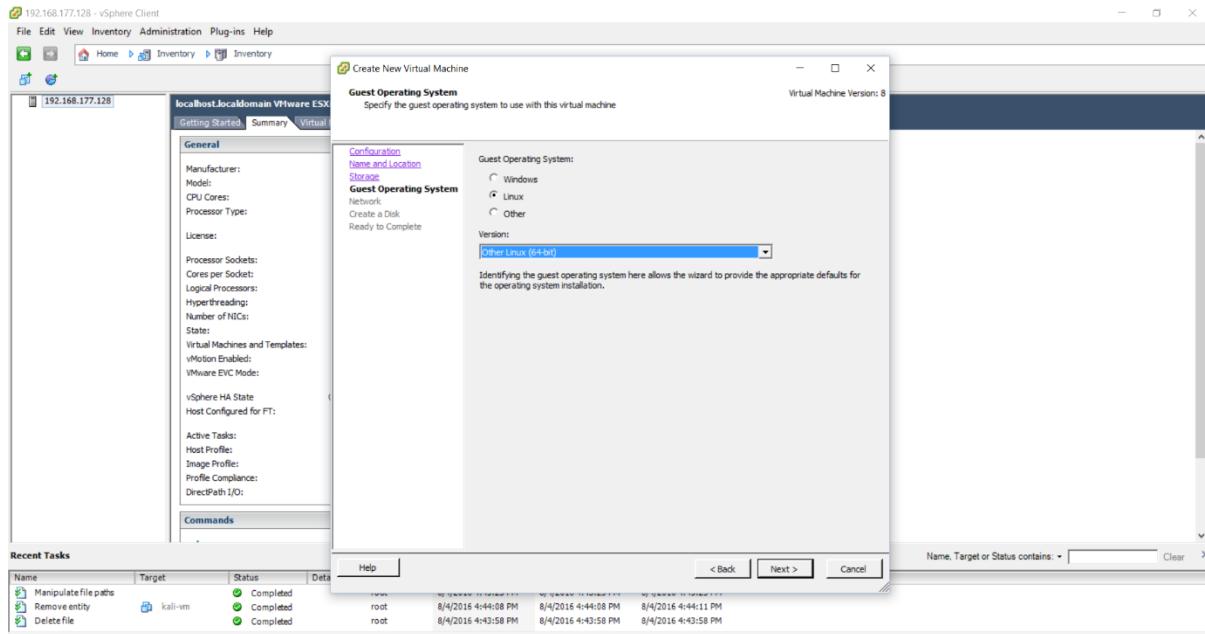


**Step 10:** Click ‘Next’ on ‘Storage’ section.

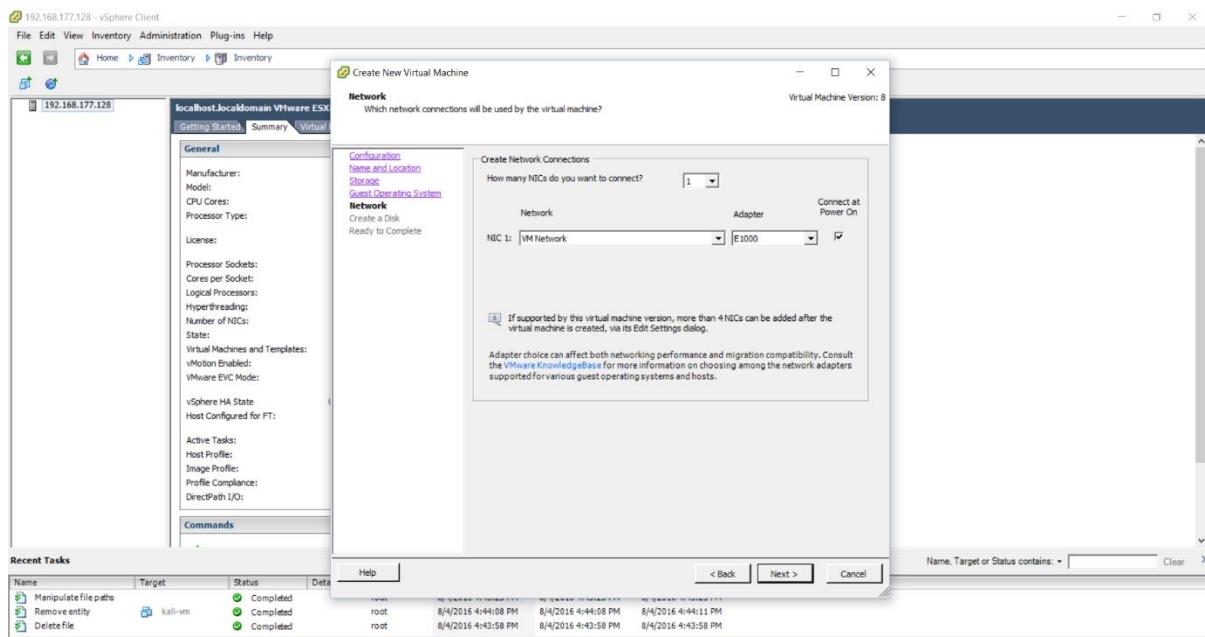


## Step 11: Select ‘Linux’ under ‘Guest Operating System’.

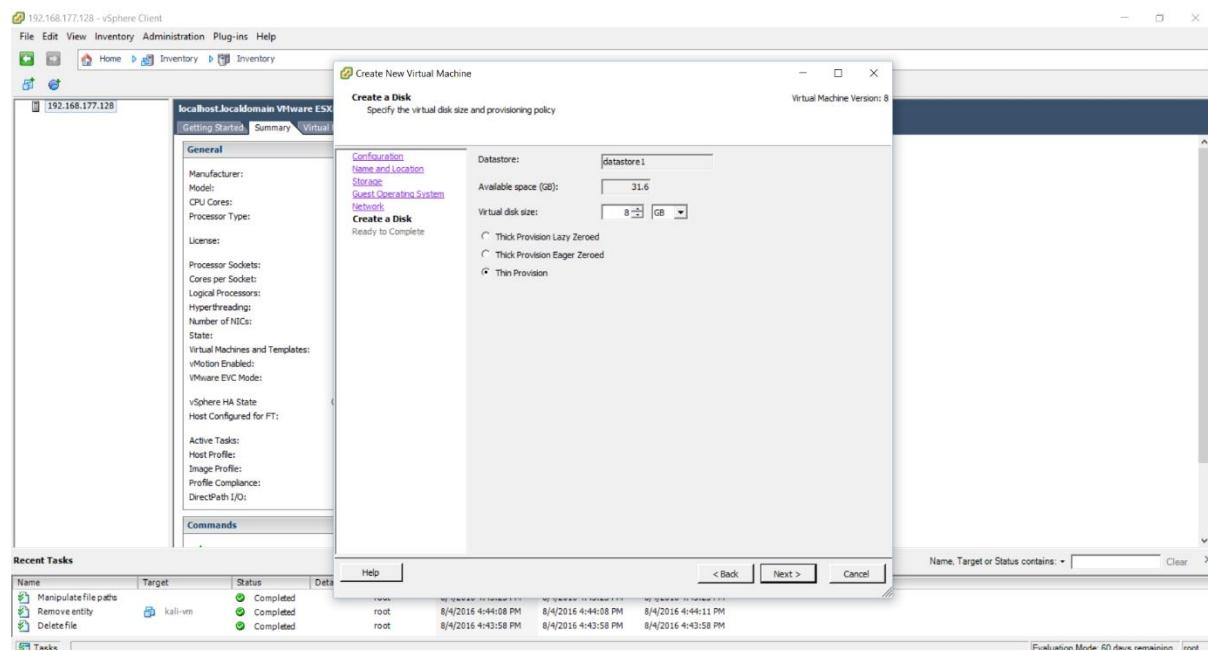
Choose ‘Other Linux (64-bit)’ and click ‘Next’.



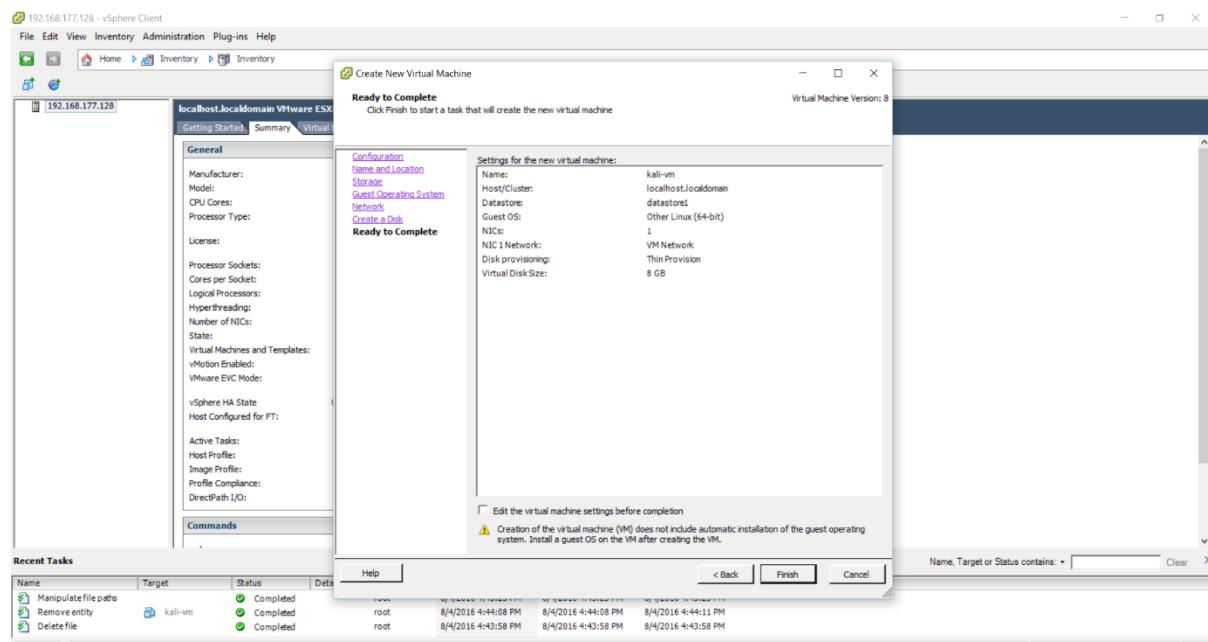
## Step 12: Click ‘Next’ on ‘Network’ section.



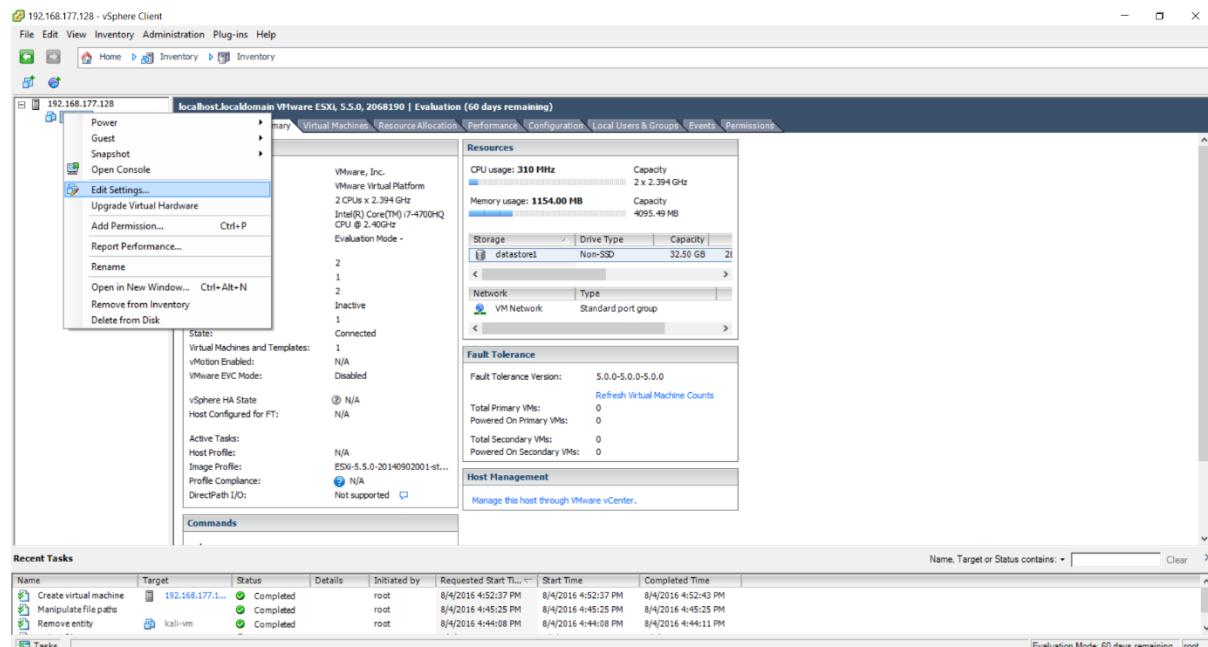
**Step 13:** Select ‘Thin Provision’ on ‘Create a Disk’ section and click ‘Next’.



**Step 14:** Click ‘Finish’.



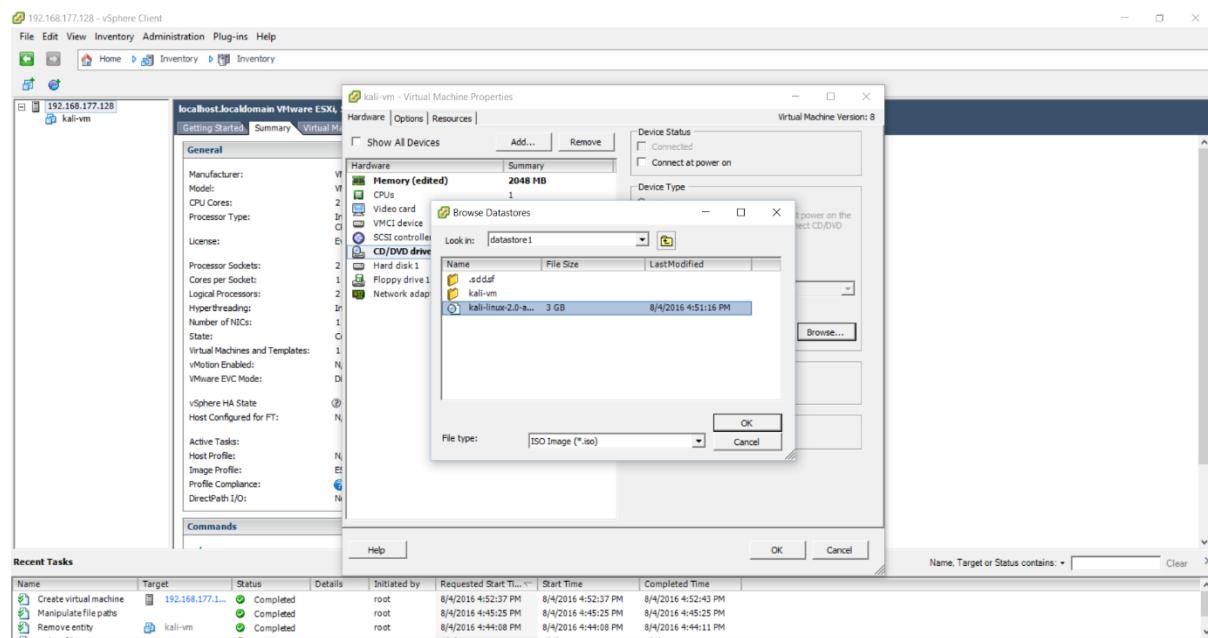
**Step 15:** Right click on the created virtual machine and choose ‘Edit Settings...’



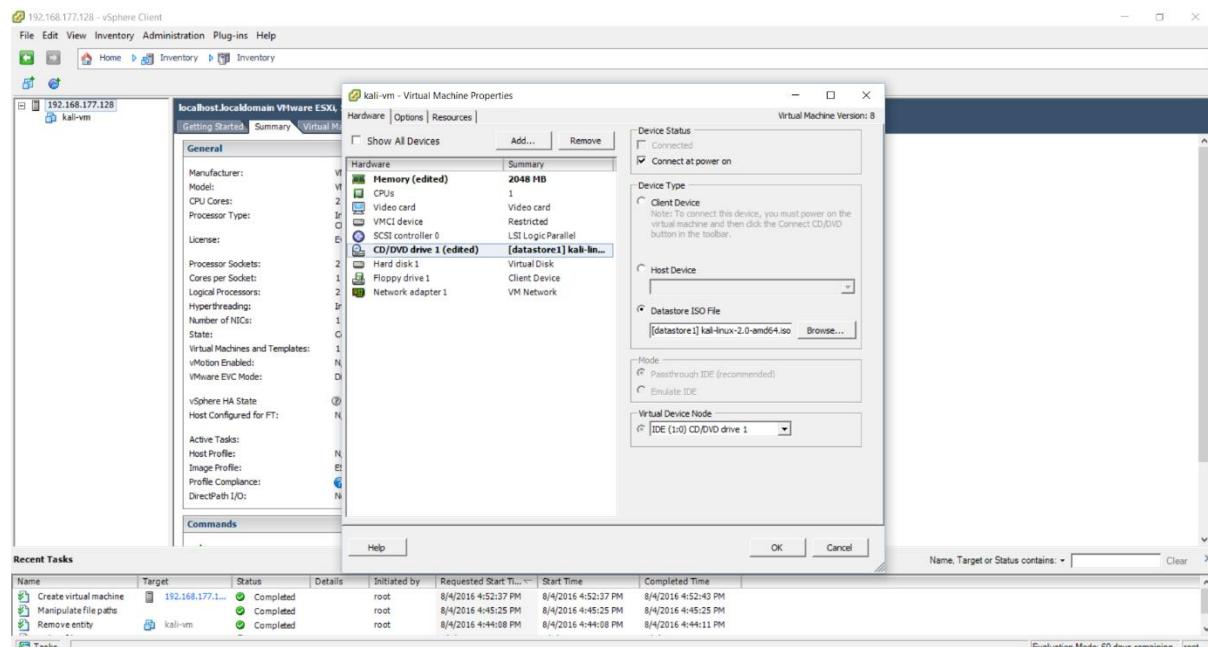
**Step 16:** Change the memory size to 2048 MB.

Select ‘CD/DVD drive 1’ and choose ‘Datastore ISO File’.

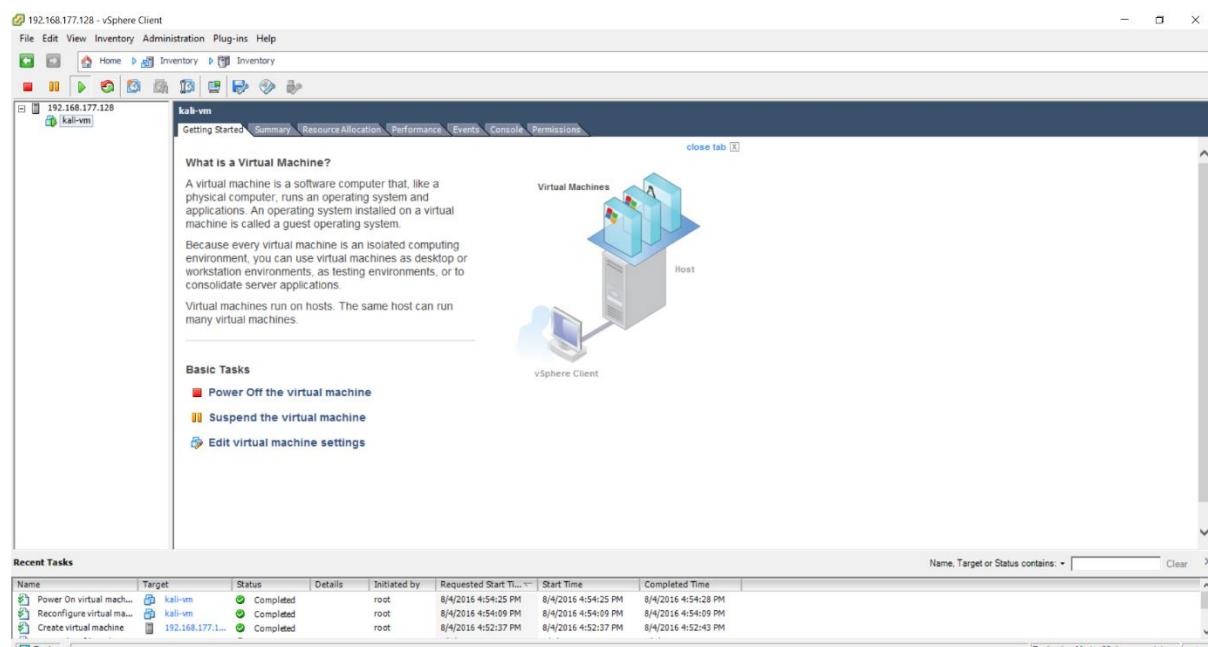
Browse for the ISO file from the datastore.



**Step 17:** Select ‘Connect at power on’ from ‘Device Status’ and click ‘OK’.

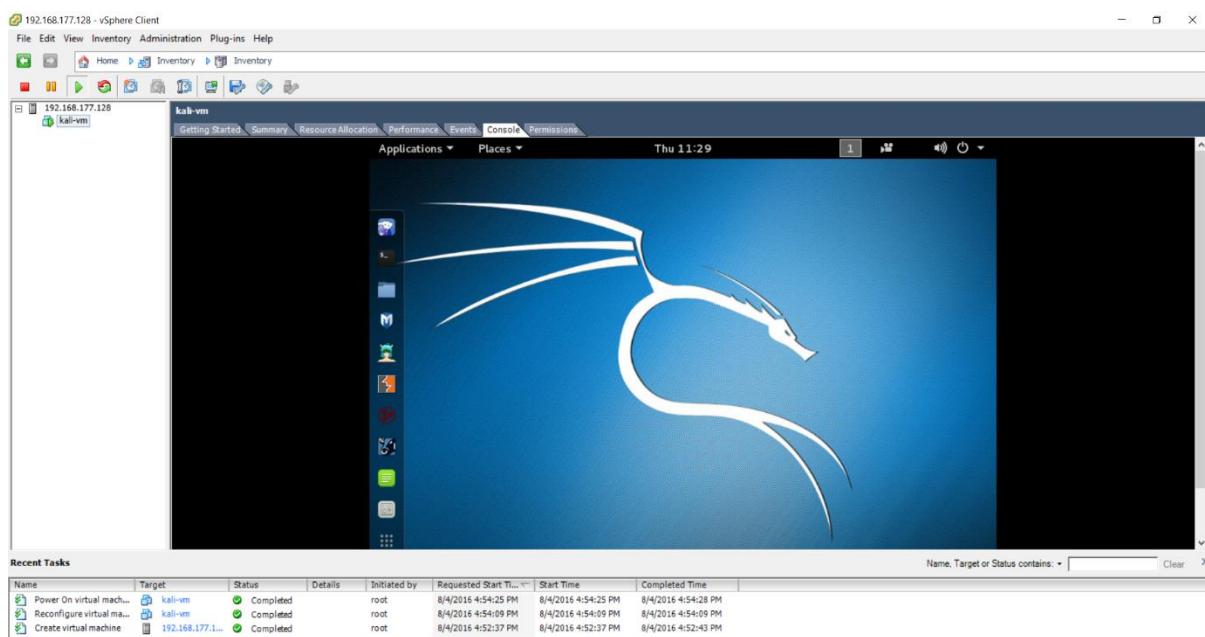
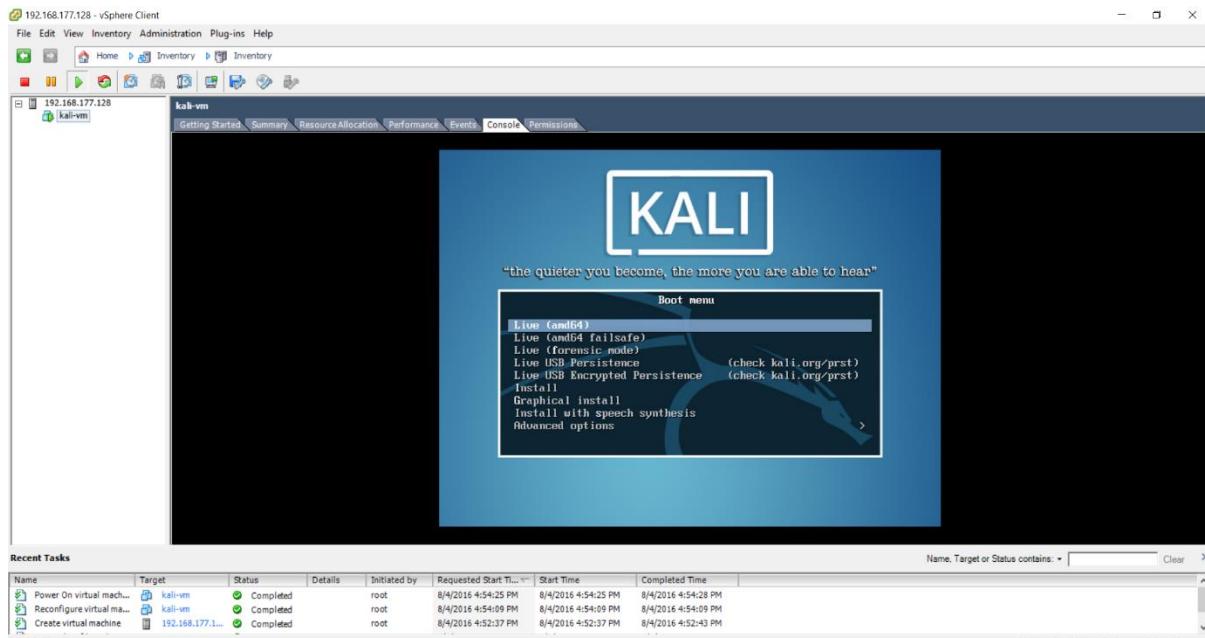


**Step 18:** Power on the virtual machine.

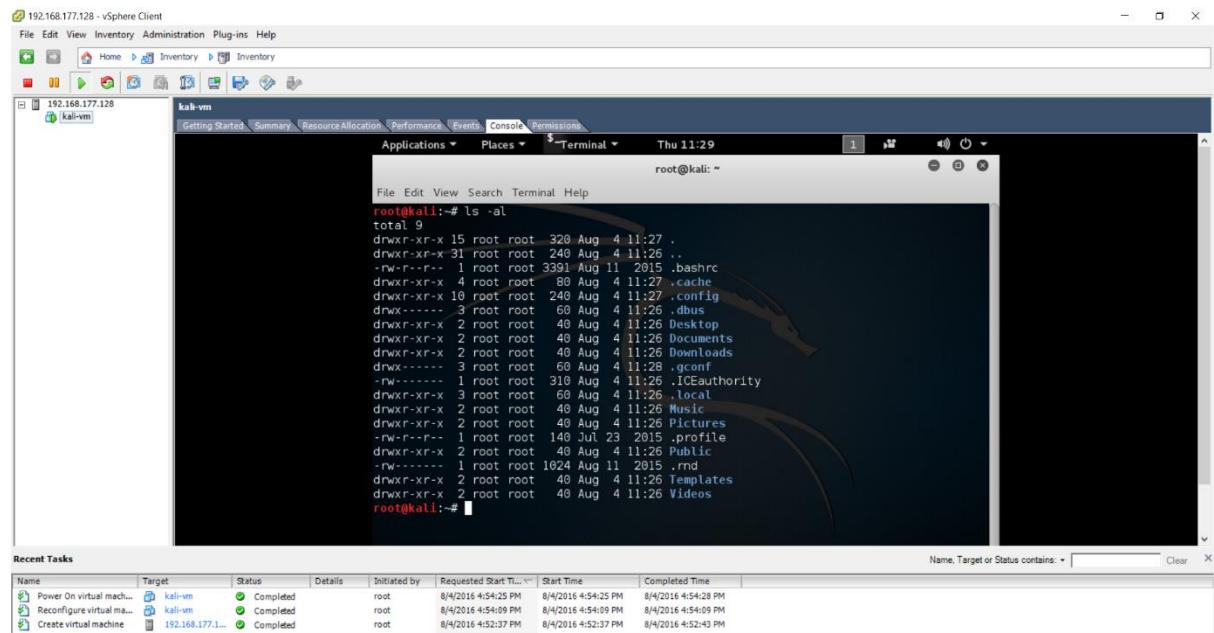


**Step 19:** Go to the ‘Console’ tab and choose ‘Live (amd64)’.

Press ‘Enter’ to start installing ‘Kali’ on the created virtual machine.



## Step 20: Open the terminal and type commands to check functioning.



## Step 21: Power off 'Kali'.

Shut Down 'ESXi'.

