



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4<sup>th</sup> Year 2<sup>nd</sup> Semester 2014

Name: W.D.A.B.Madushani

SLIIT ID: IT13146566

Group Number:

Practical Session: WD

Practical Number: Lab 4

Date of Submission: 16/08/2016

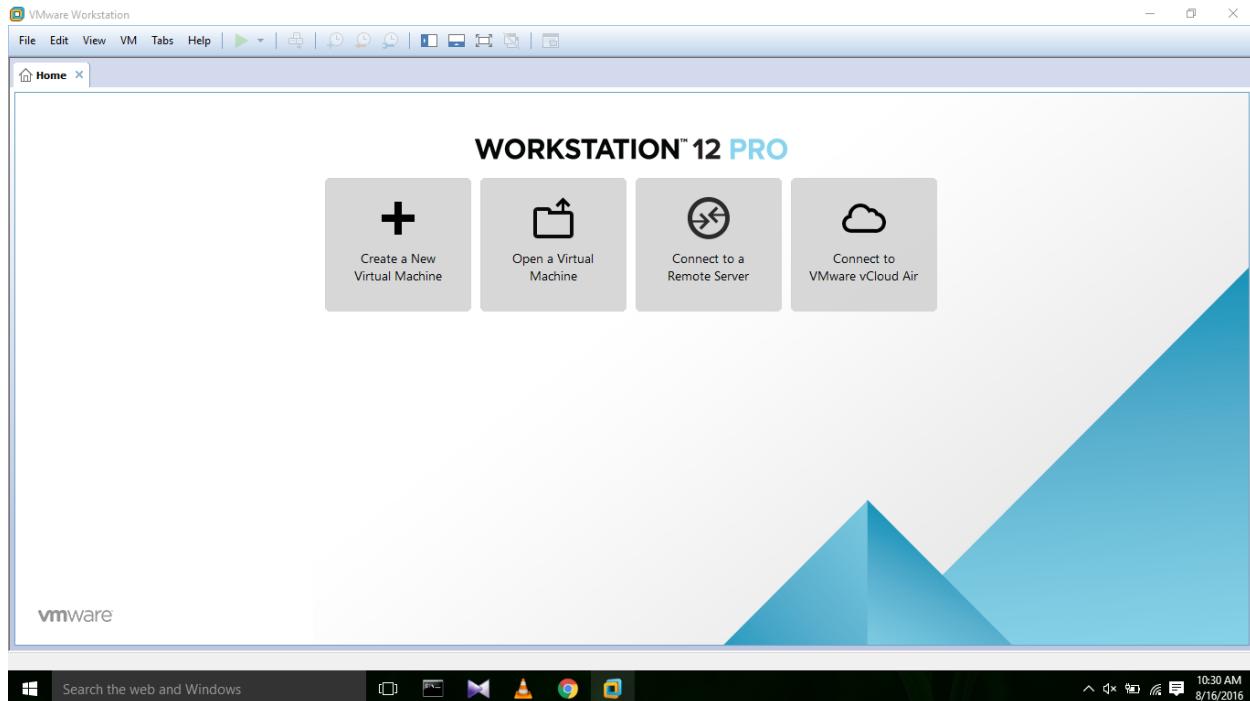
Date of Evaluation : \_\_\_\_\_

Evaluators Signature : \_\_\_\_\_

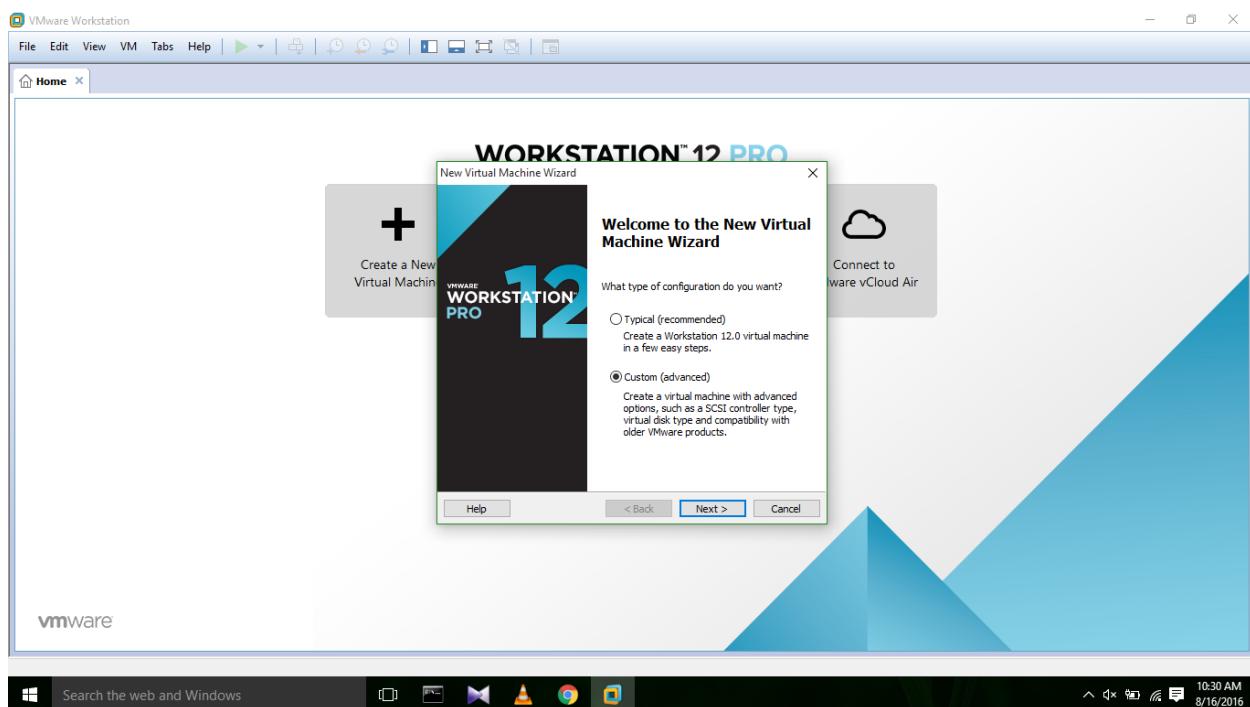
# Baremetal Virtual machine Installation

## Baremetal Installation process

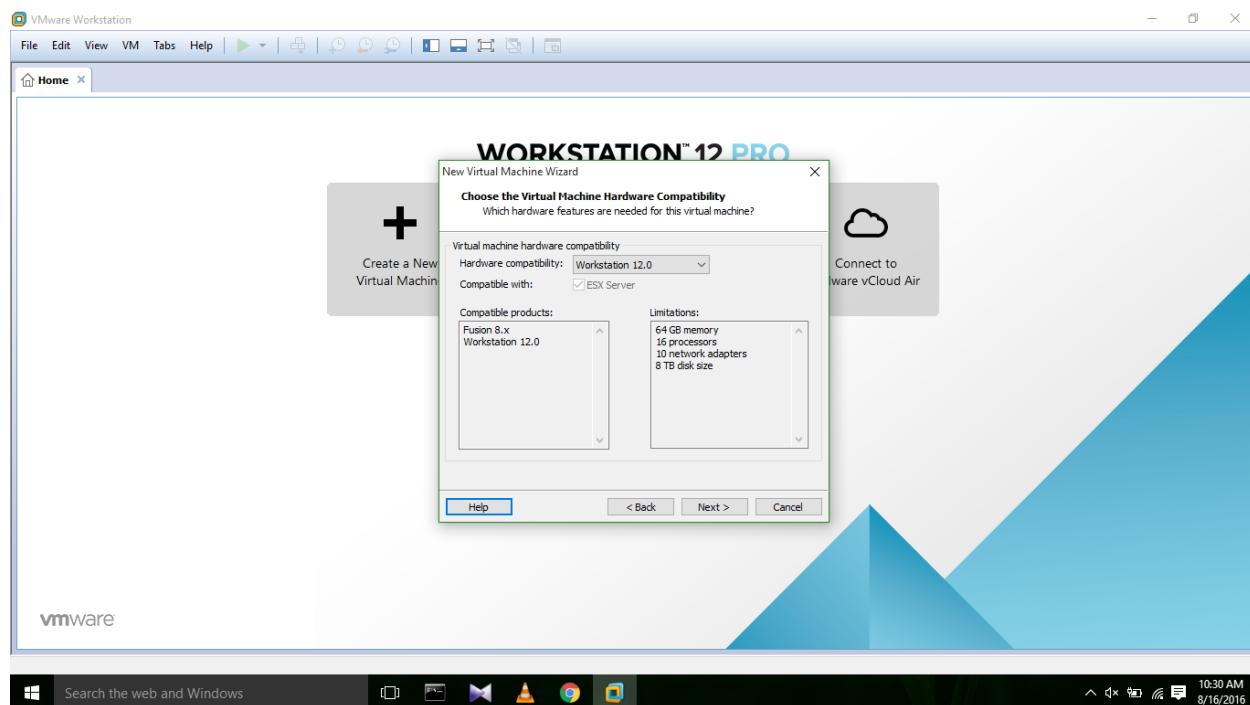
Open VMware(To create the server)



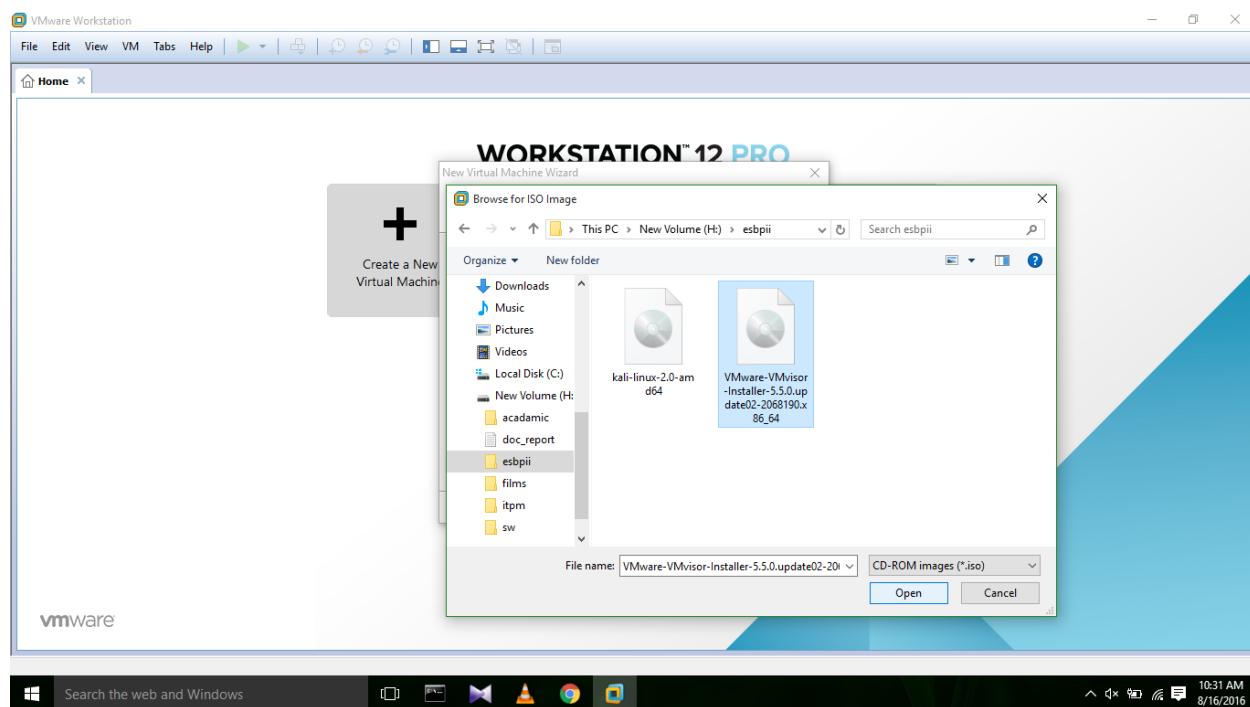
Select the configuration type as custom and select next.

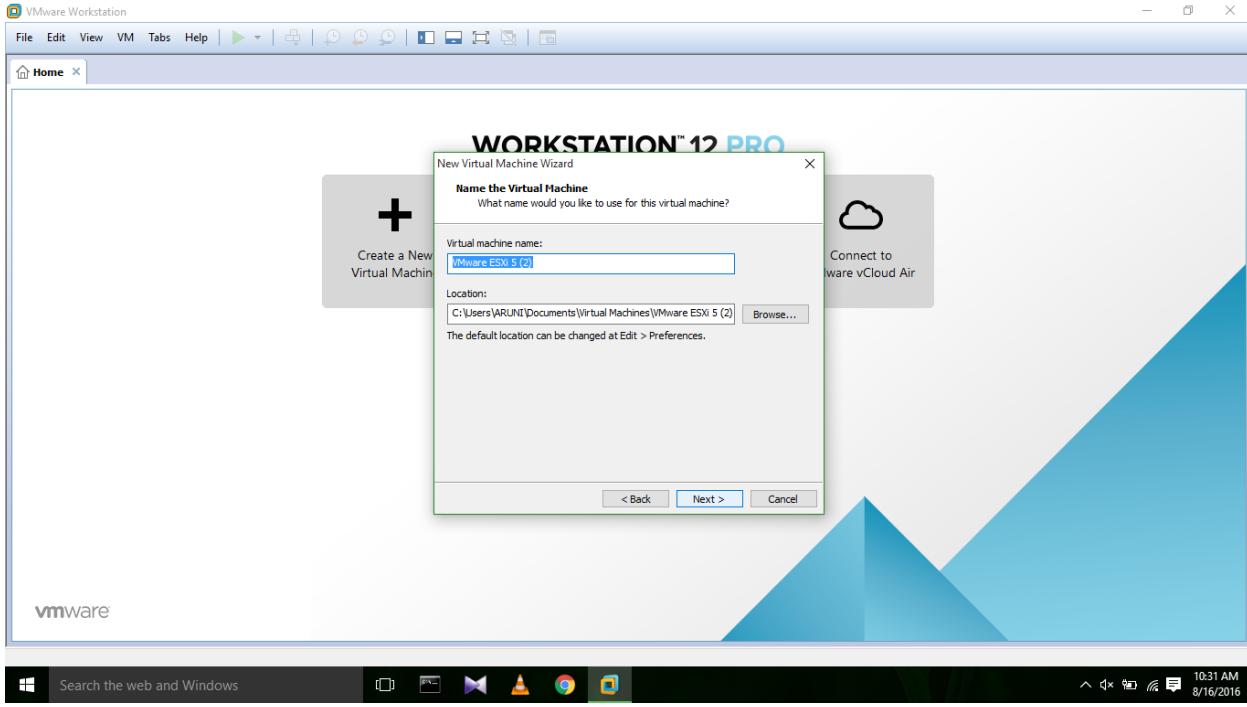
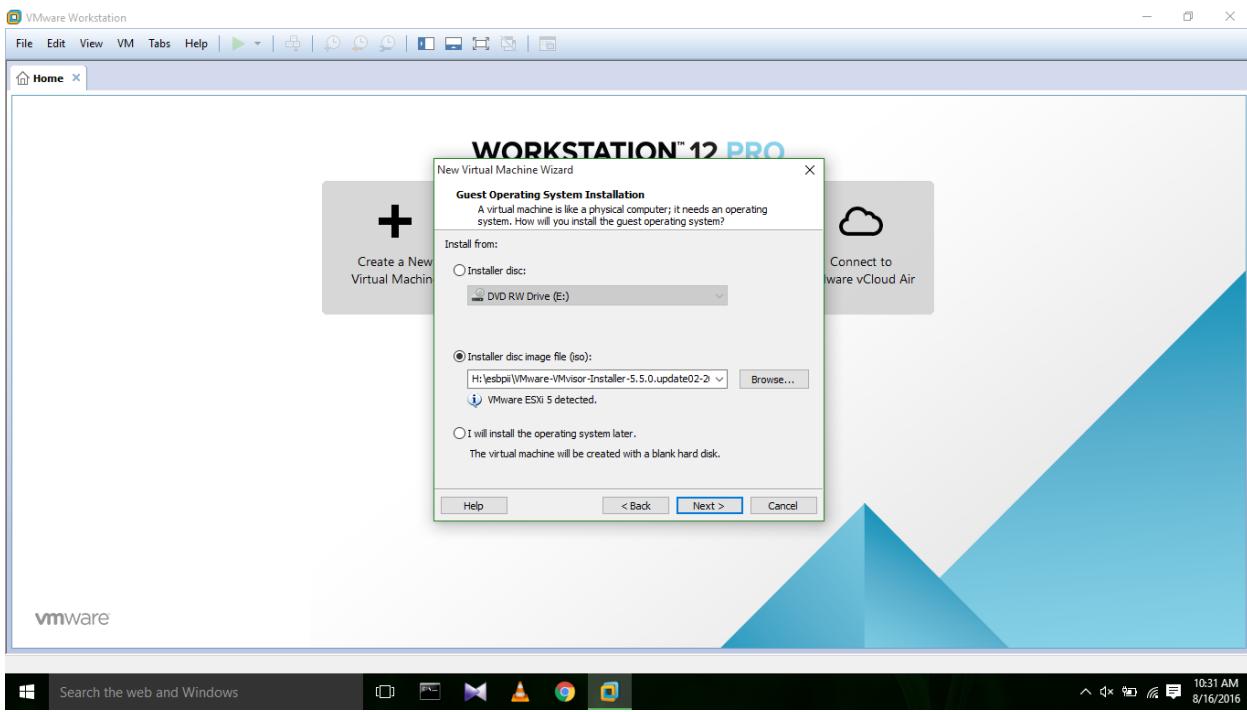


Choose the virtual machine compatibility as the figure and click next

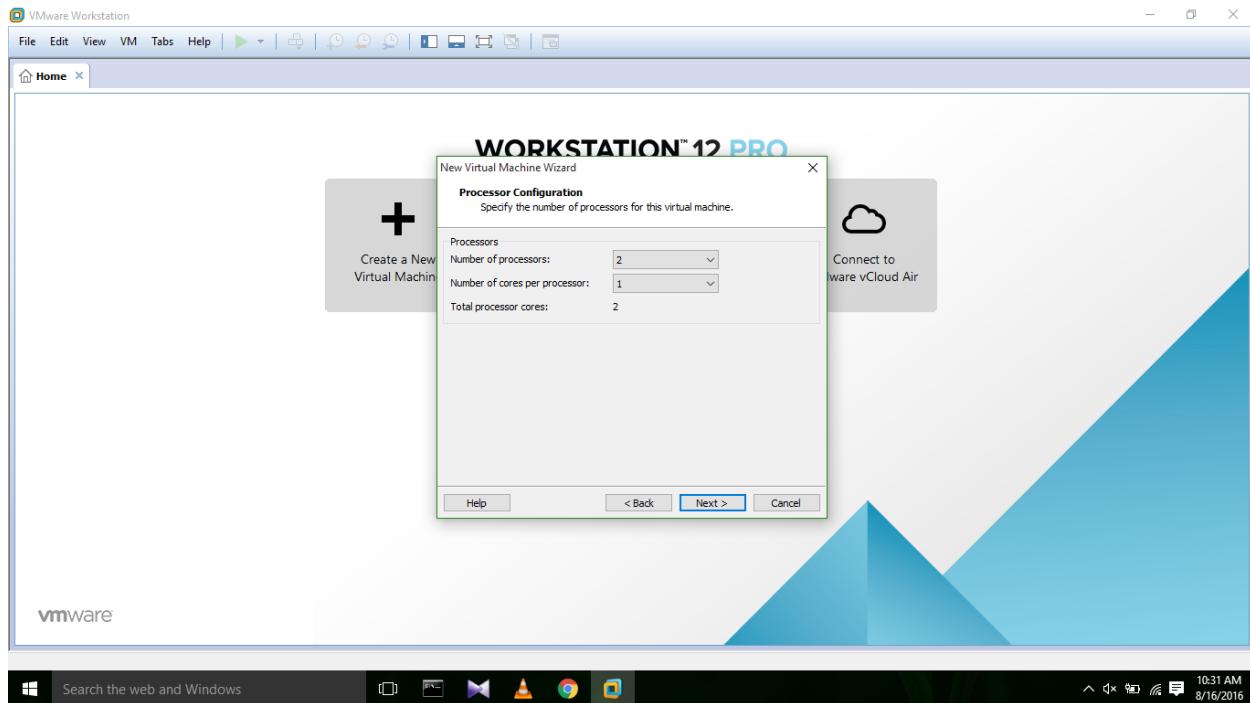


Browse the VMware-VMvisor-Installer-5.5.0.update02-2068190.x86\_64 from the machine and click on open

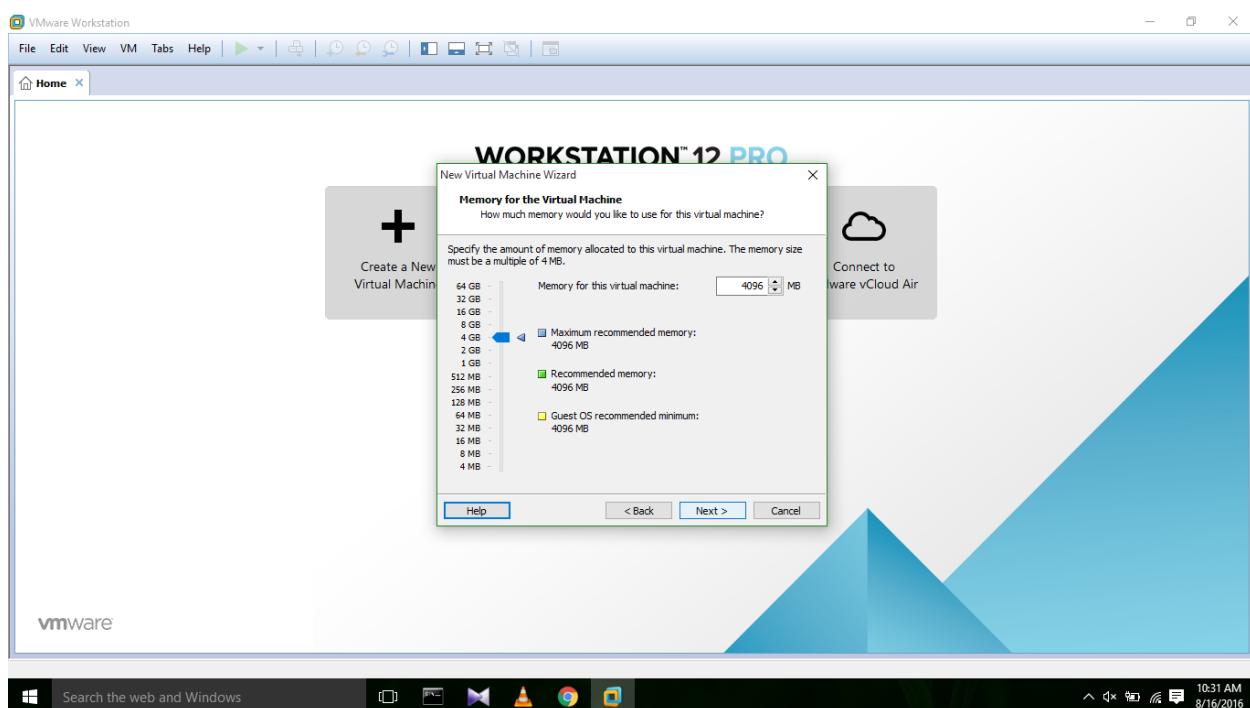




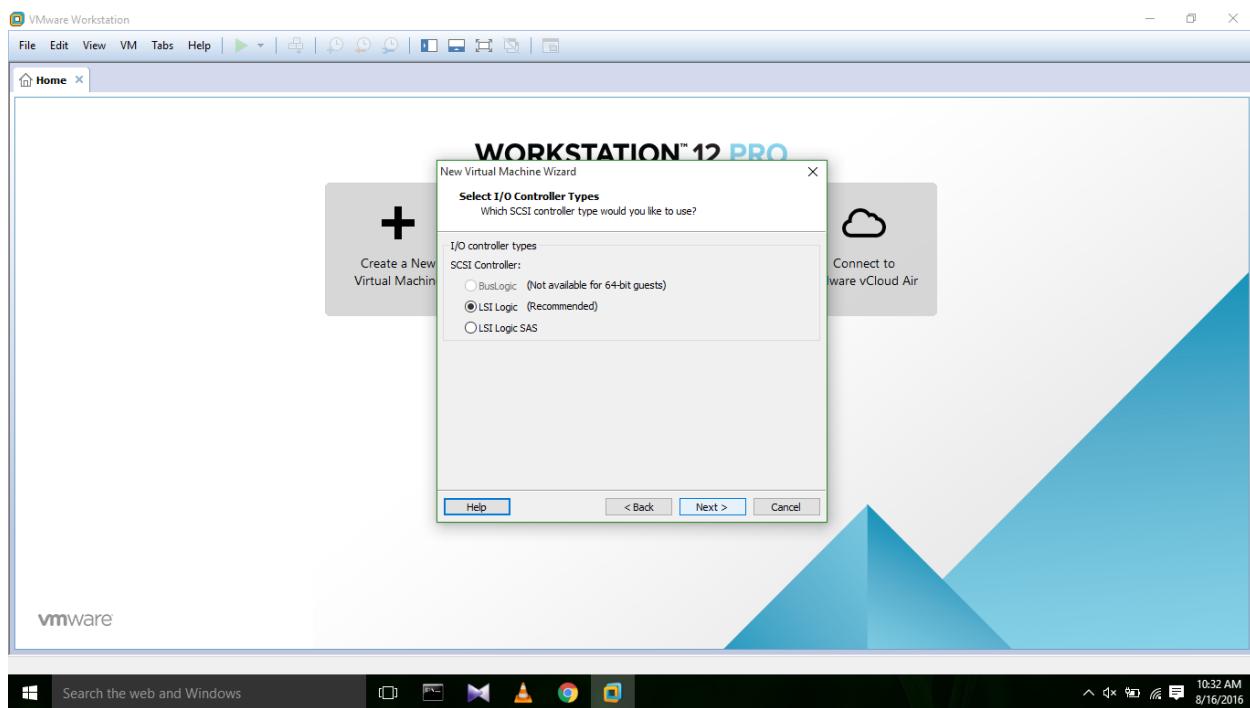
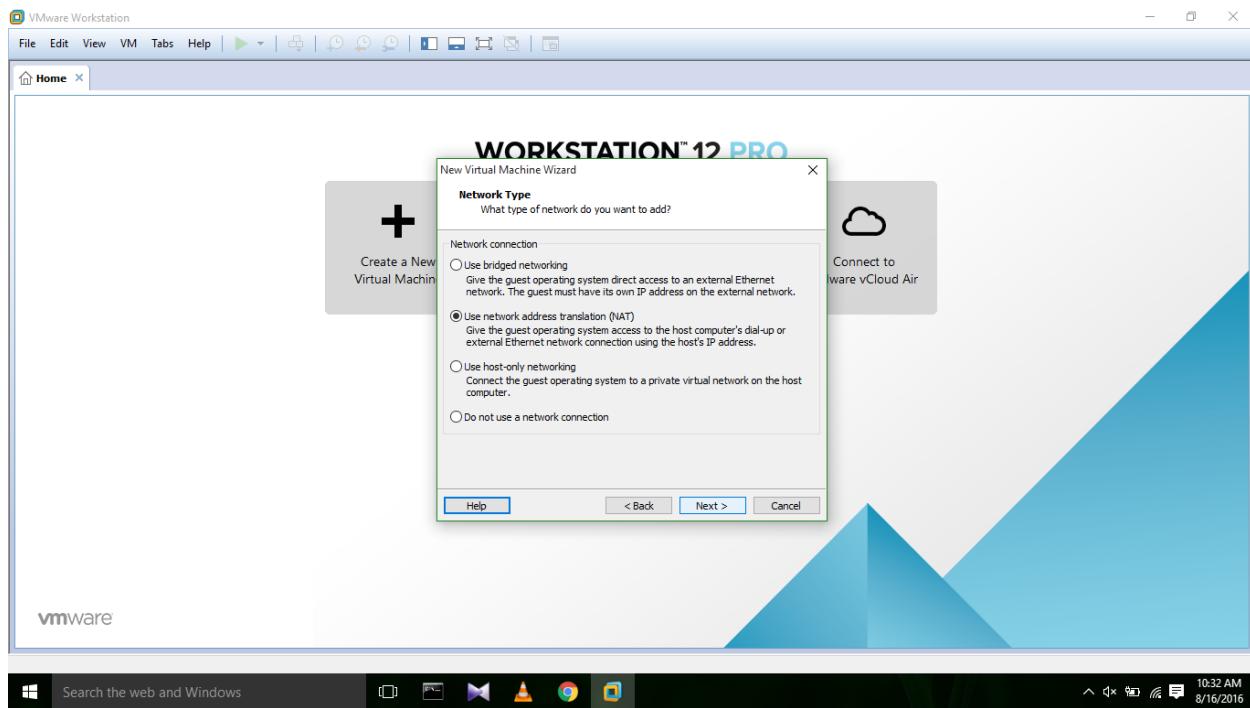
Choose processor configuration and click next

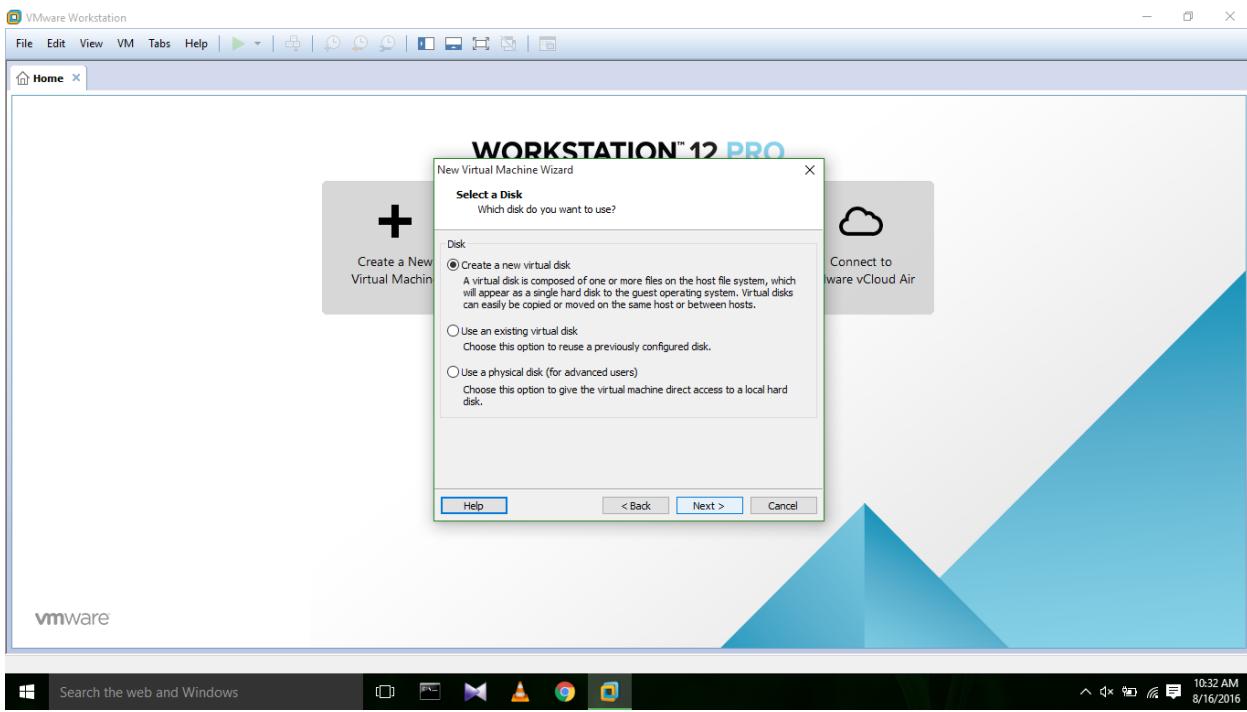


Allocate memory for the virtual machine. And click next button.

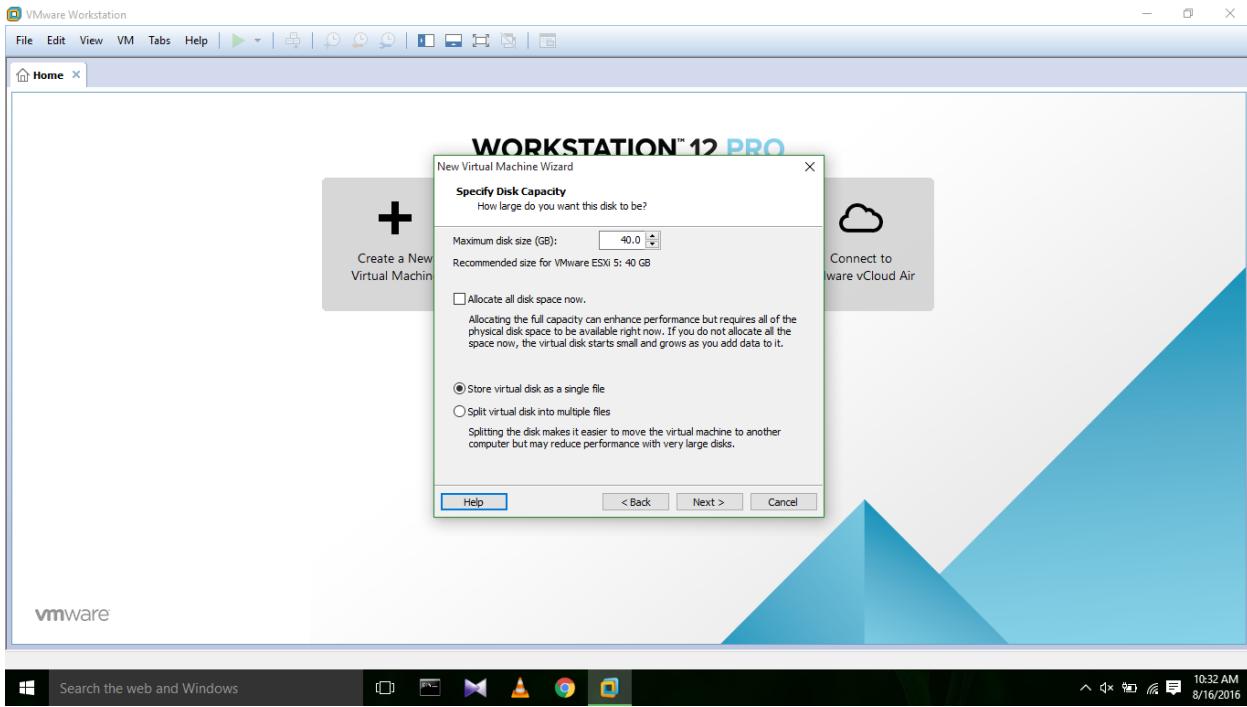


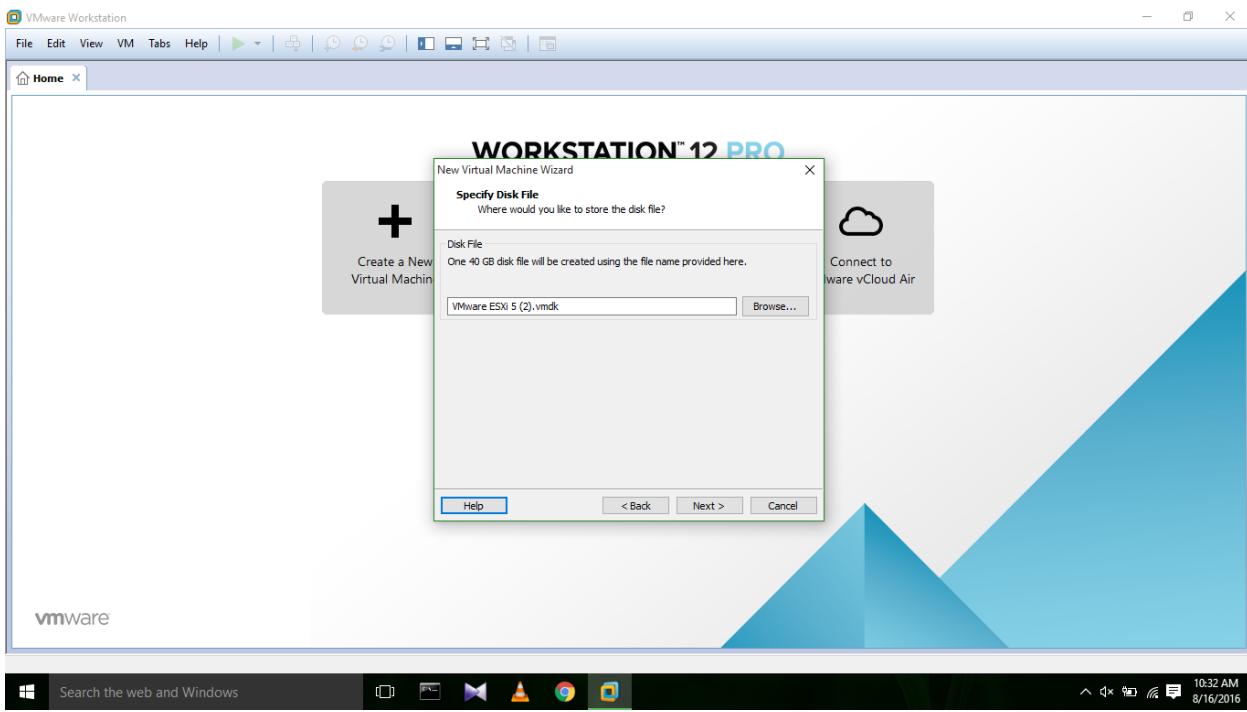
Select network type as figure and click next



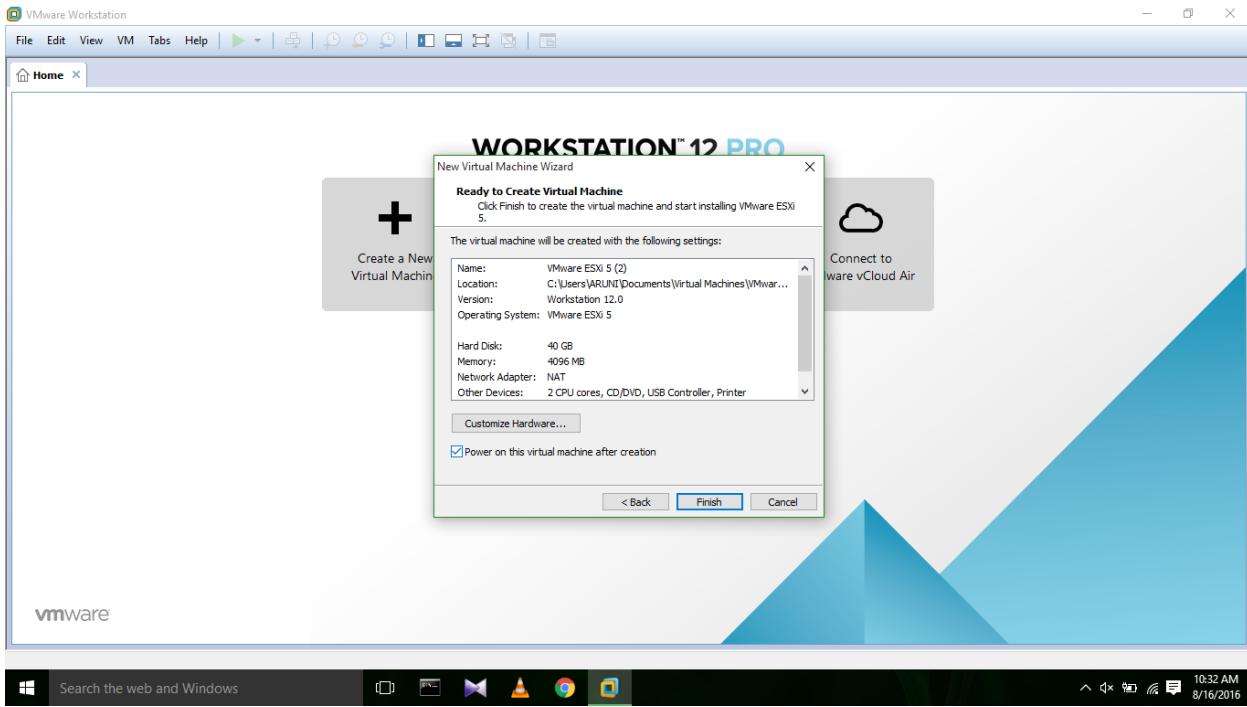


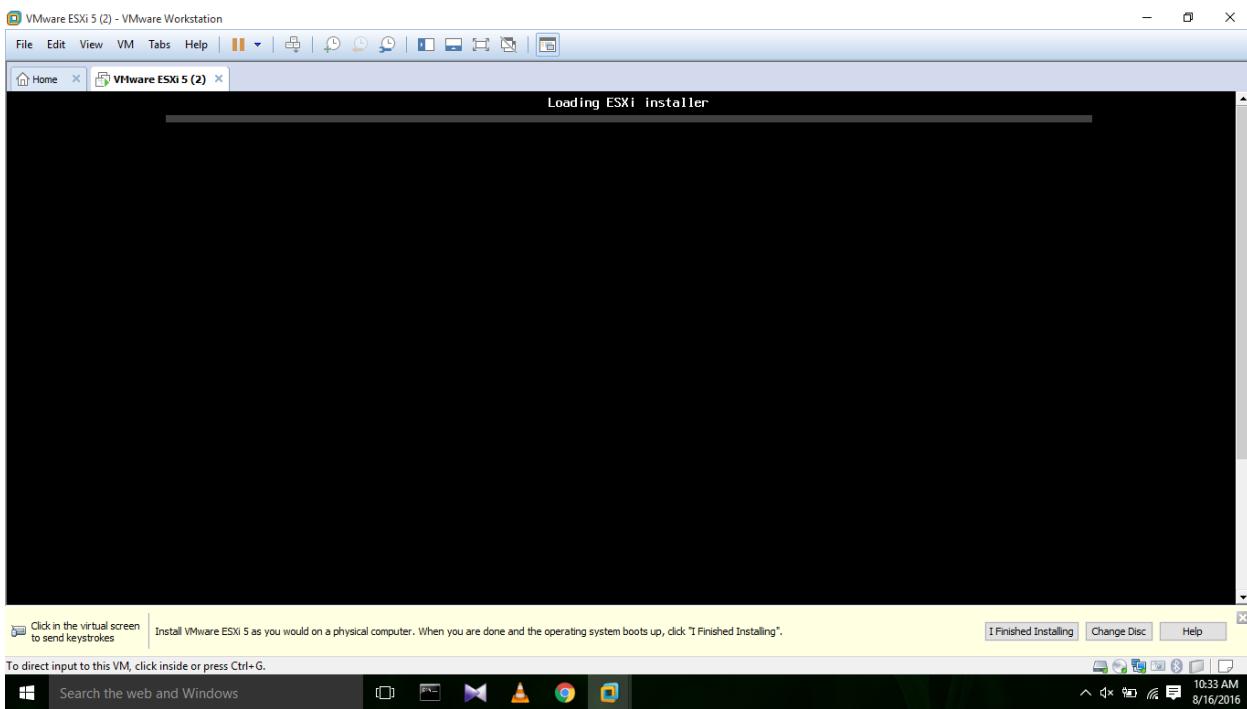
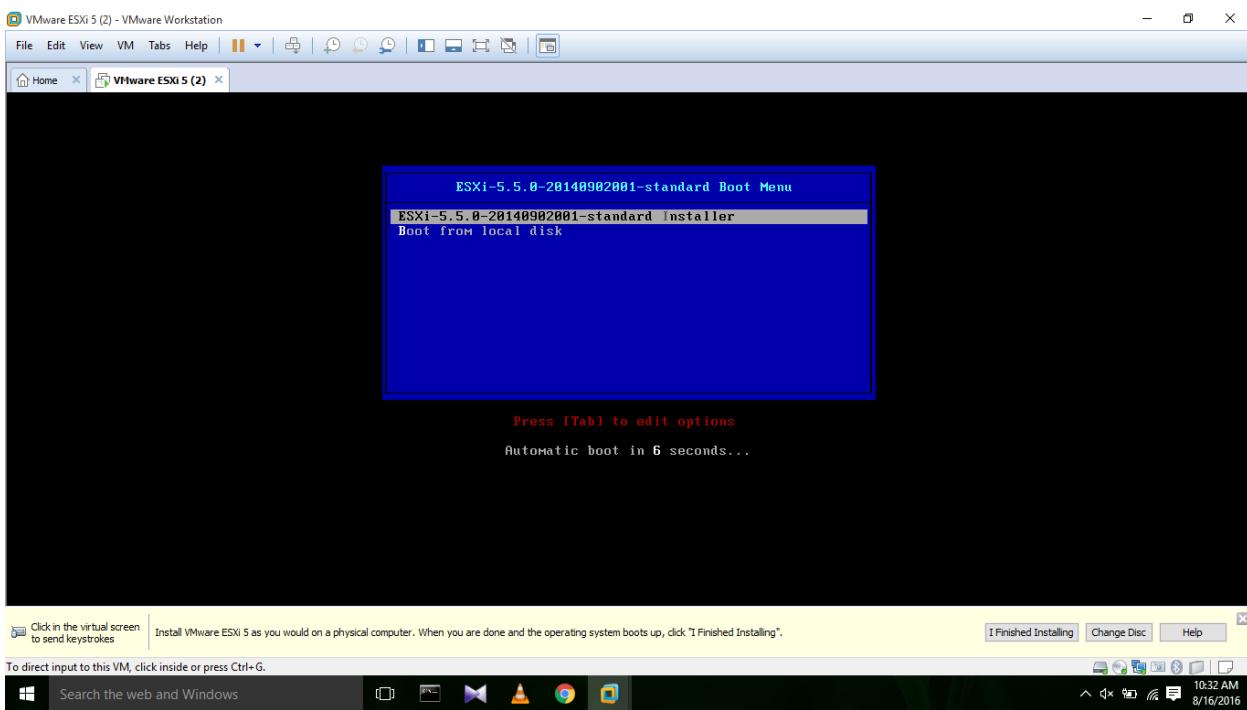
After above steps choose the disk capacity for the virtual machine and click next



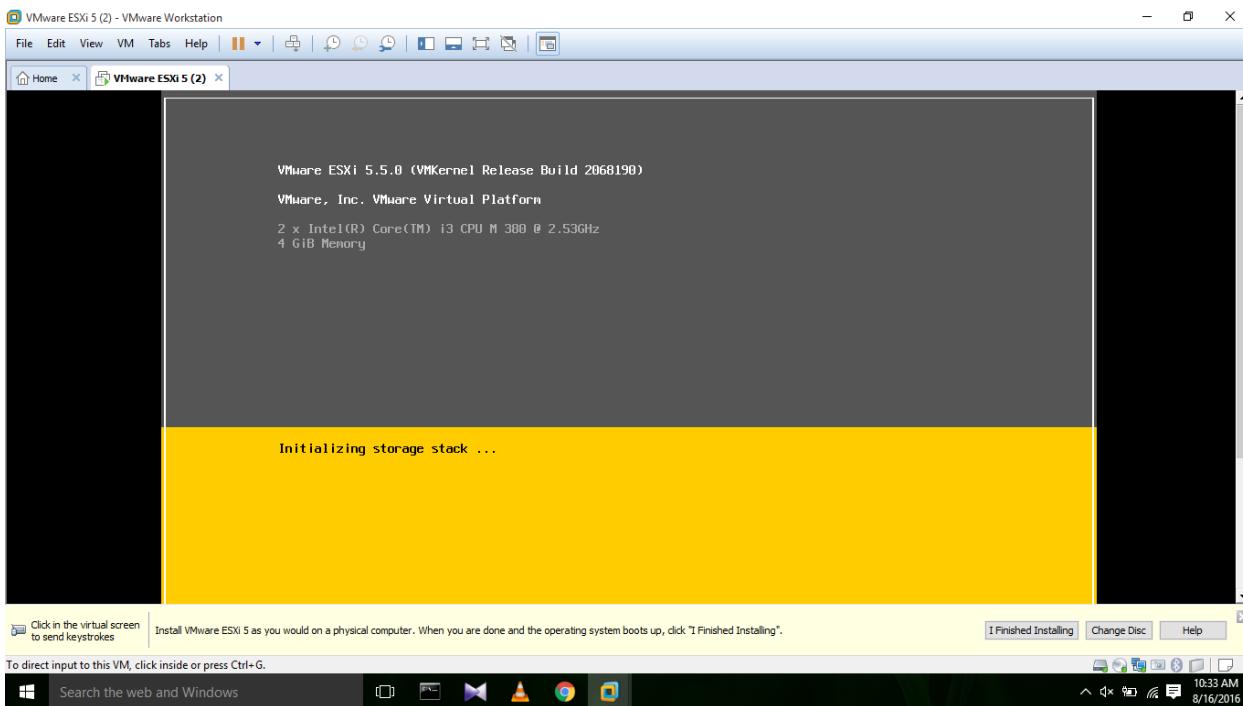


After doing above all steps successfully click on finish

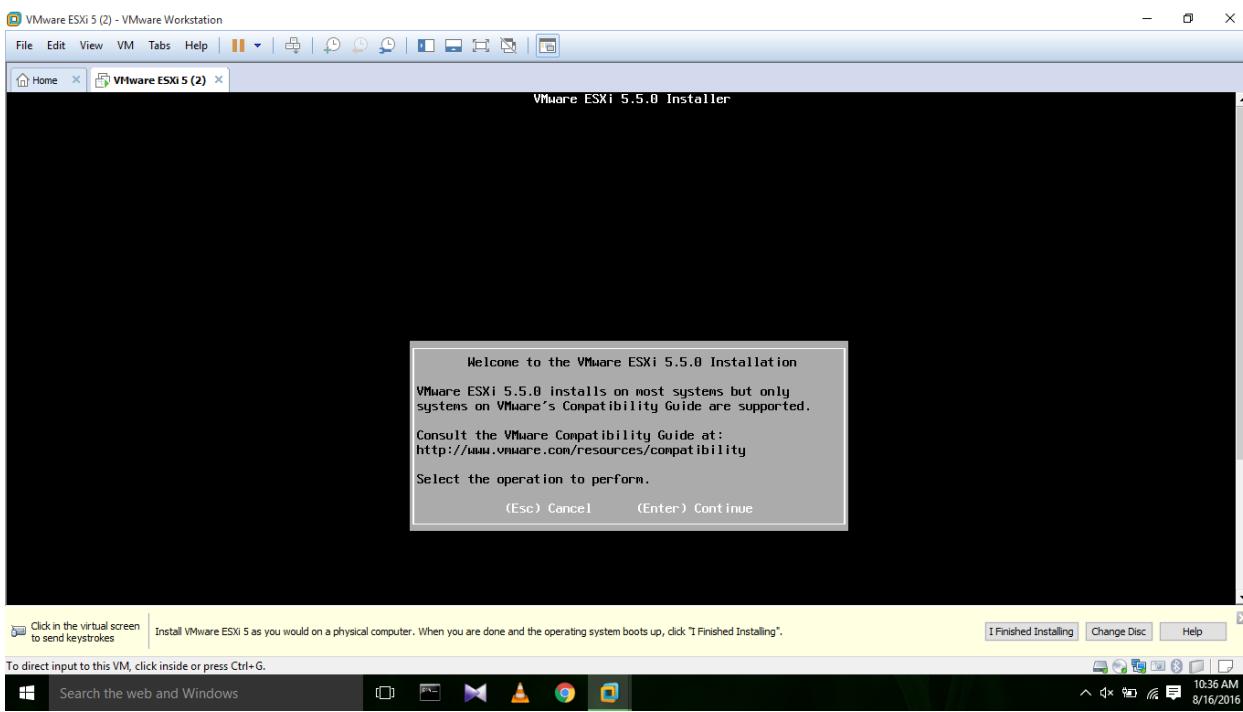




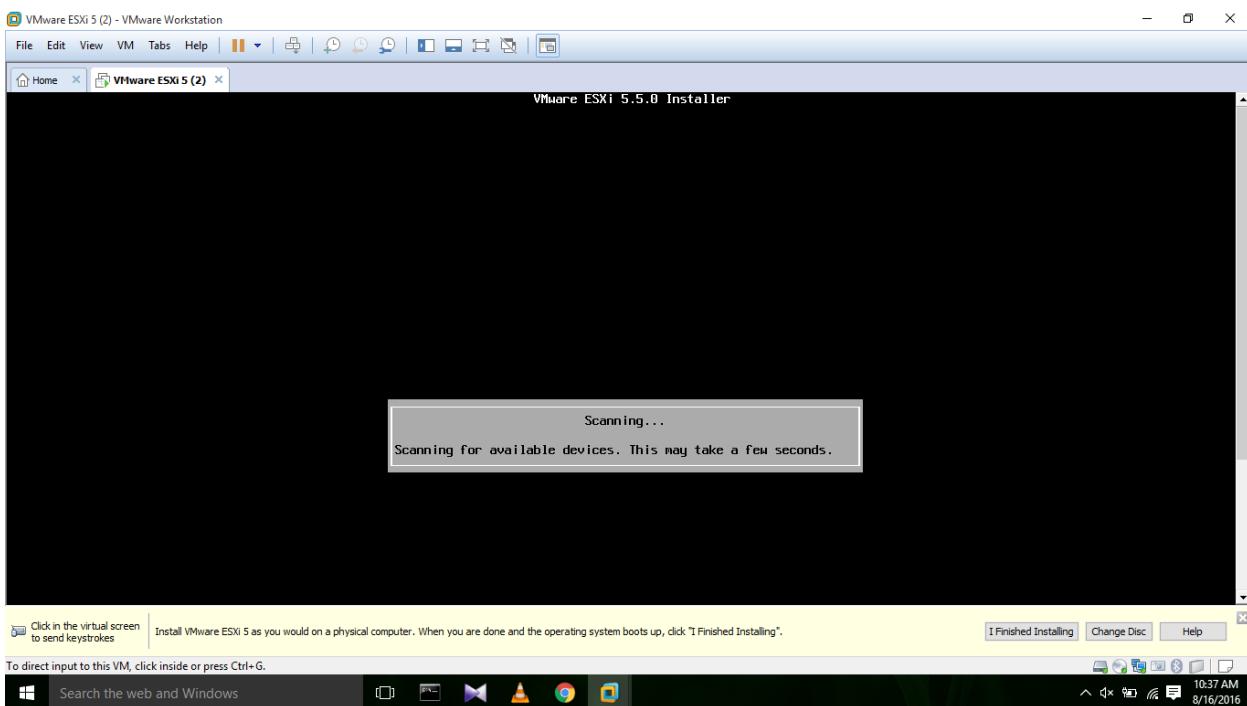
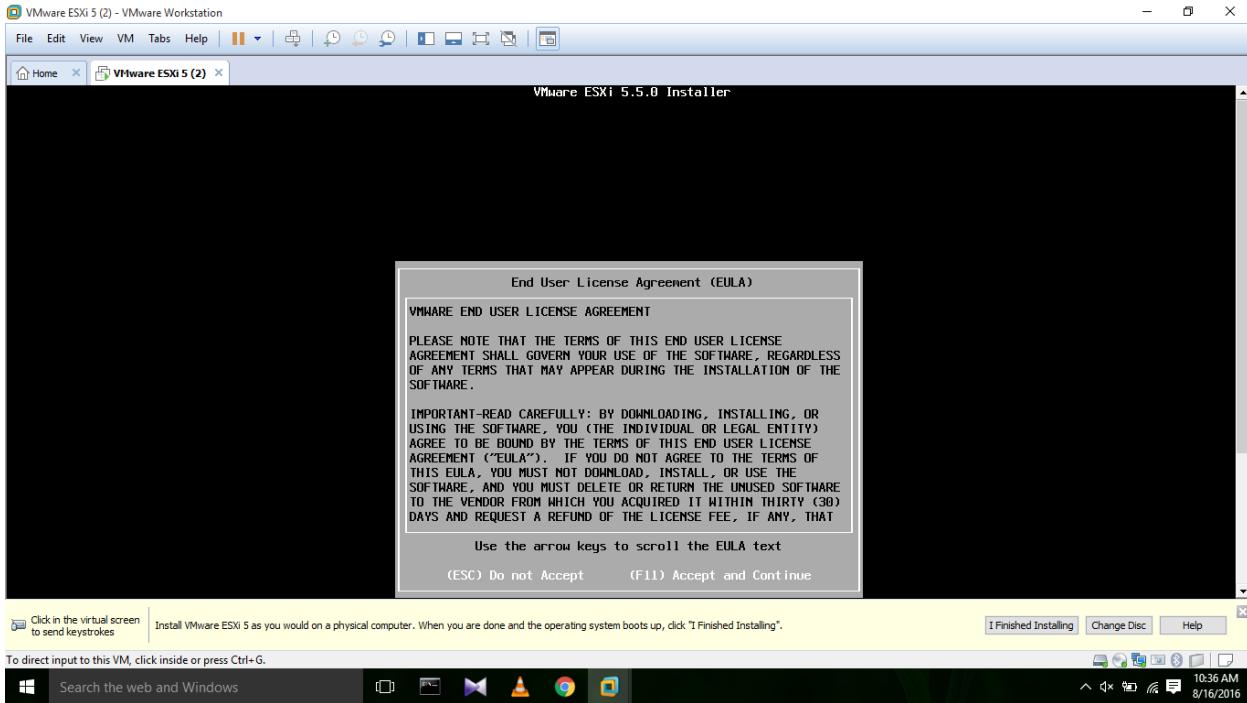
After successfully installation can see as next figure



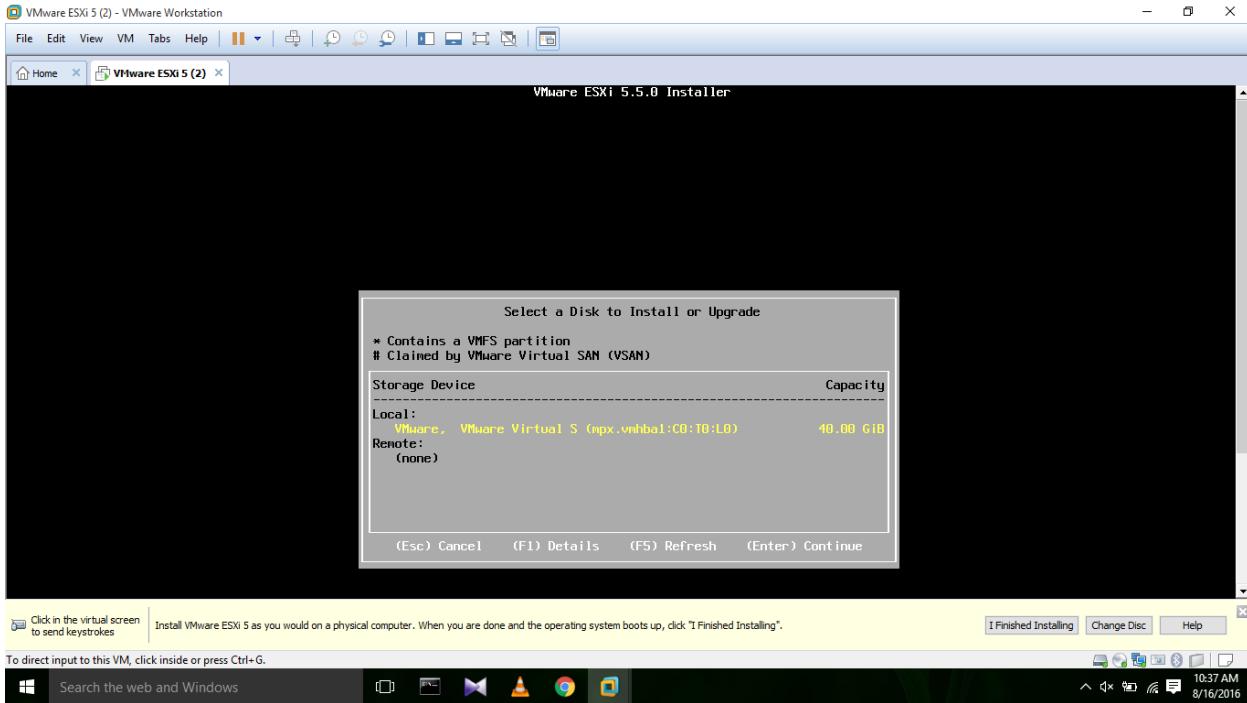
Click enter button



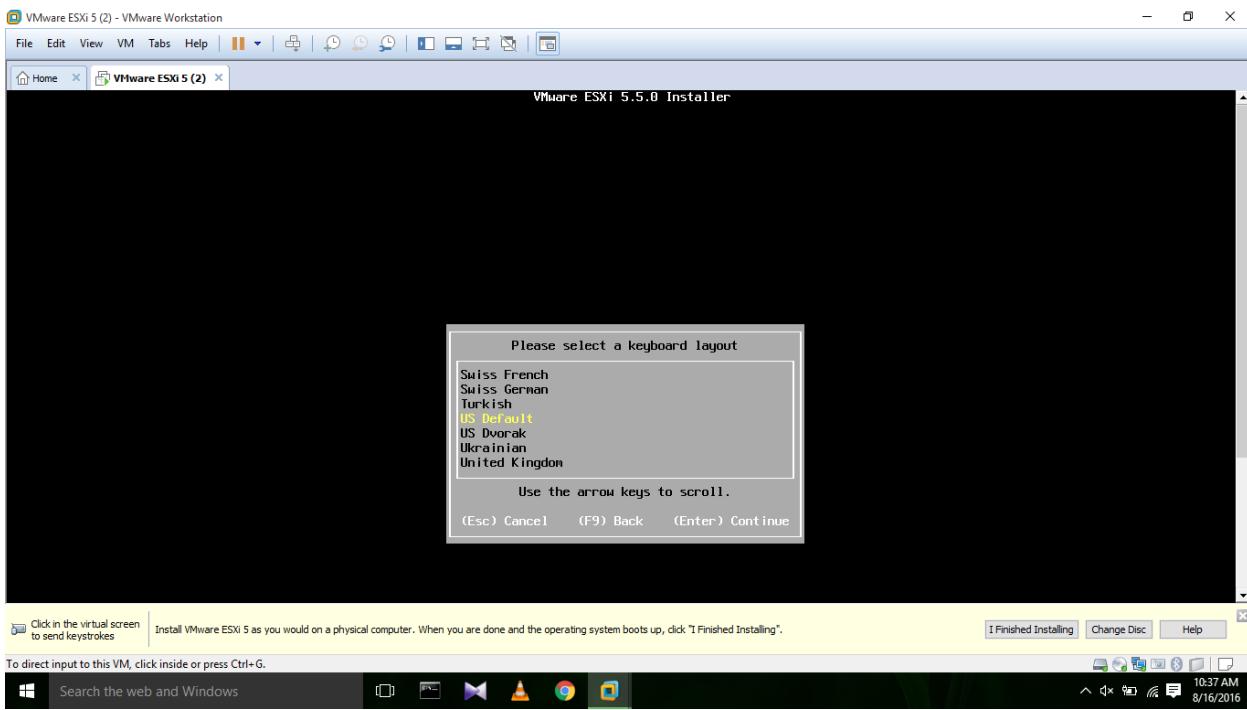
To accept enter f11



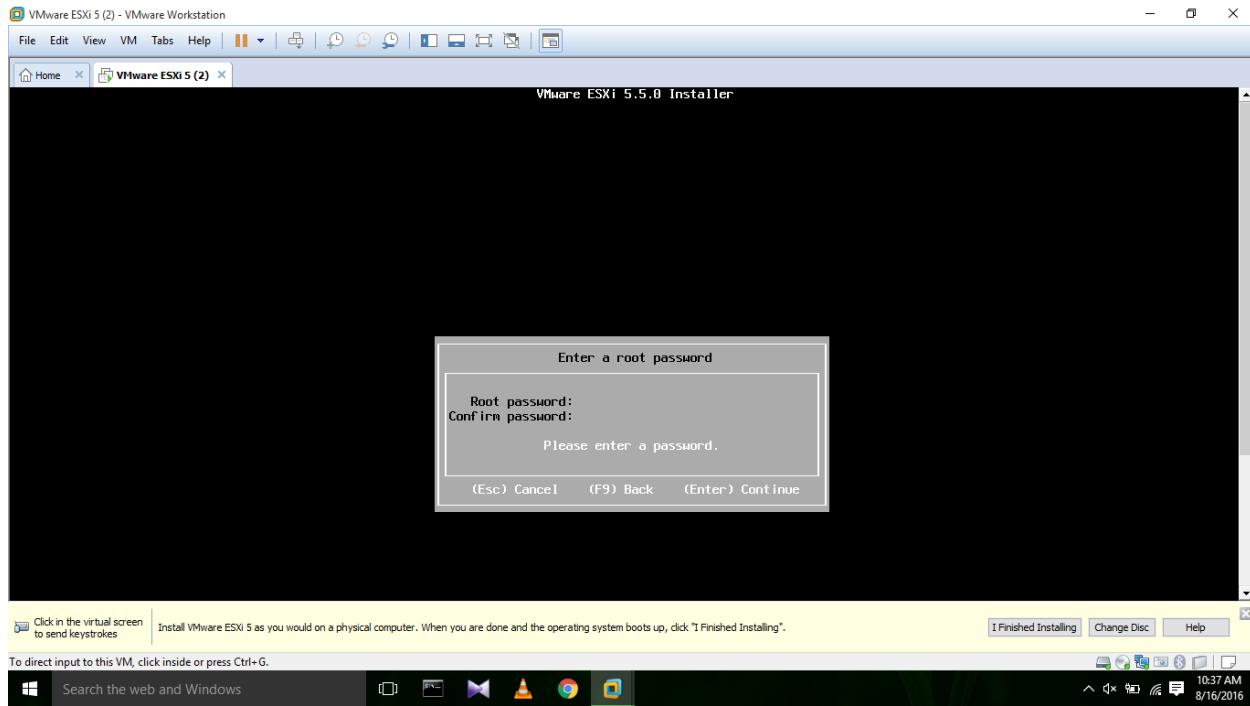
Press enter to continue the process



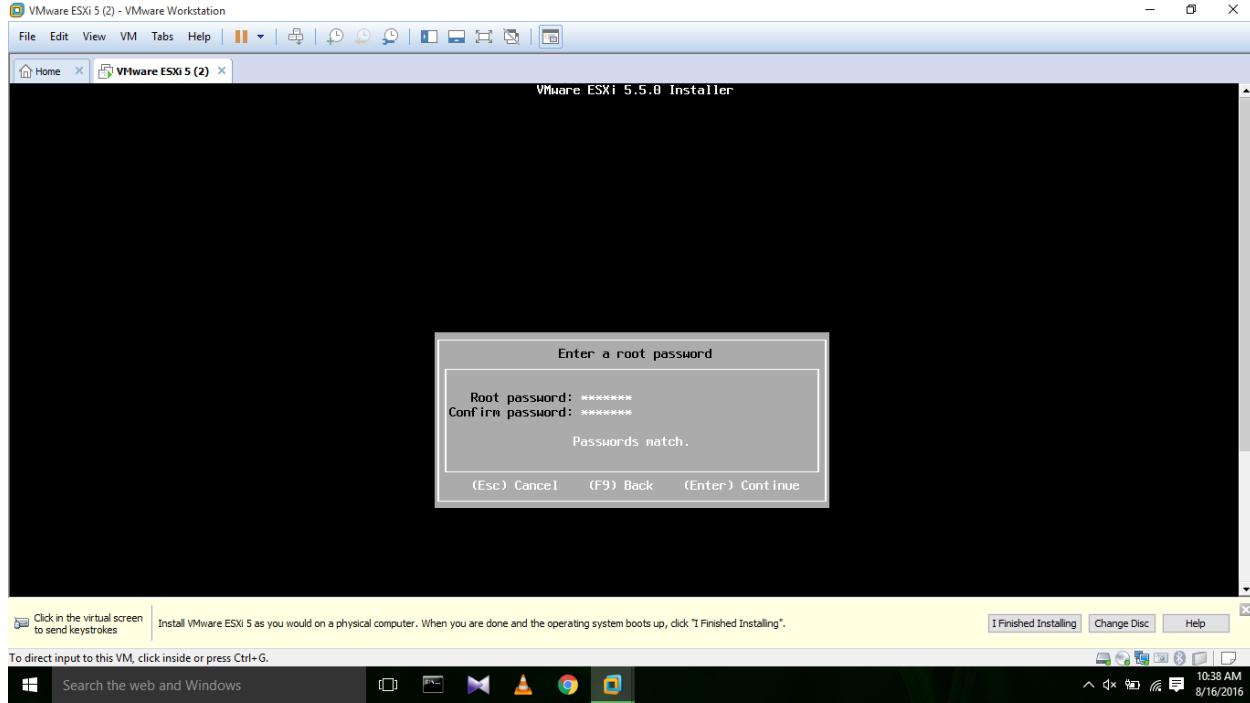
Then select enter to keyboard layout as US default

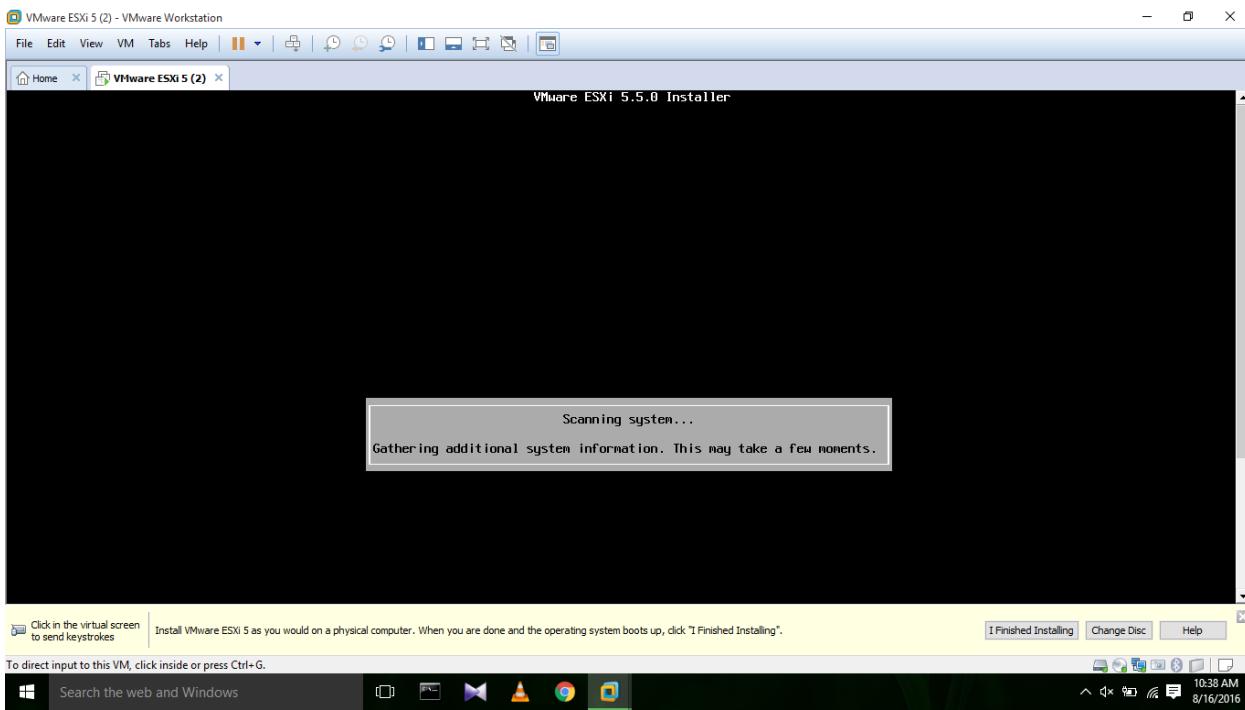


Then it will prompt the box to enter a root password

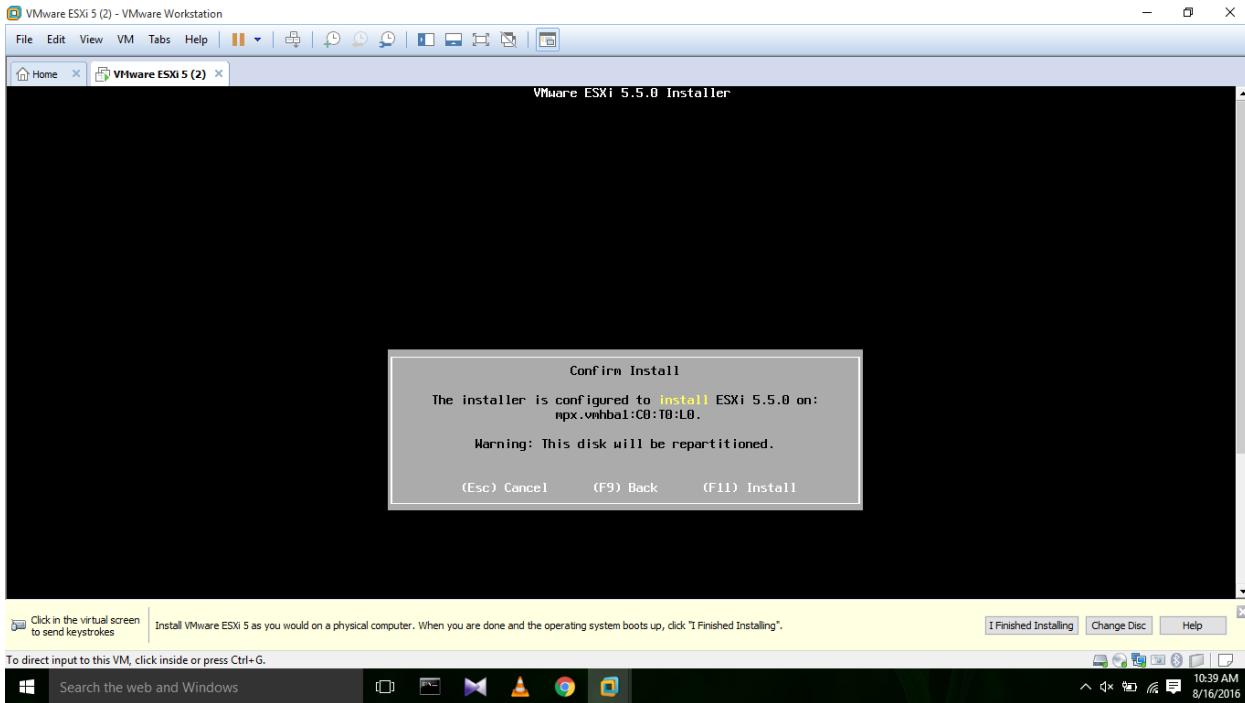


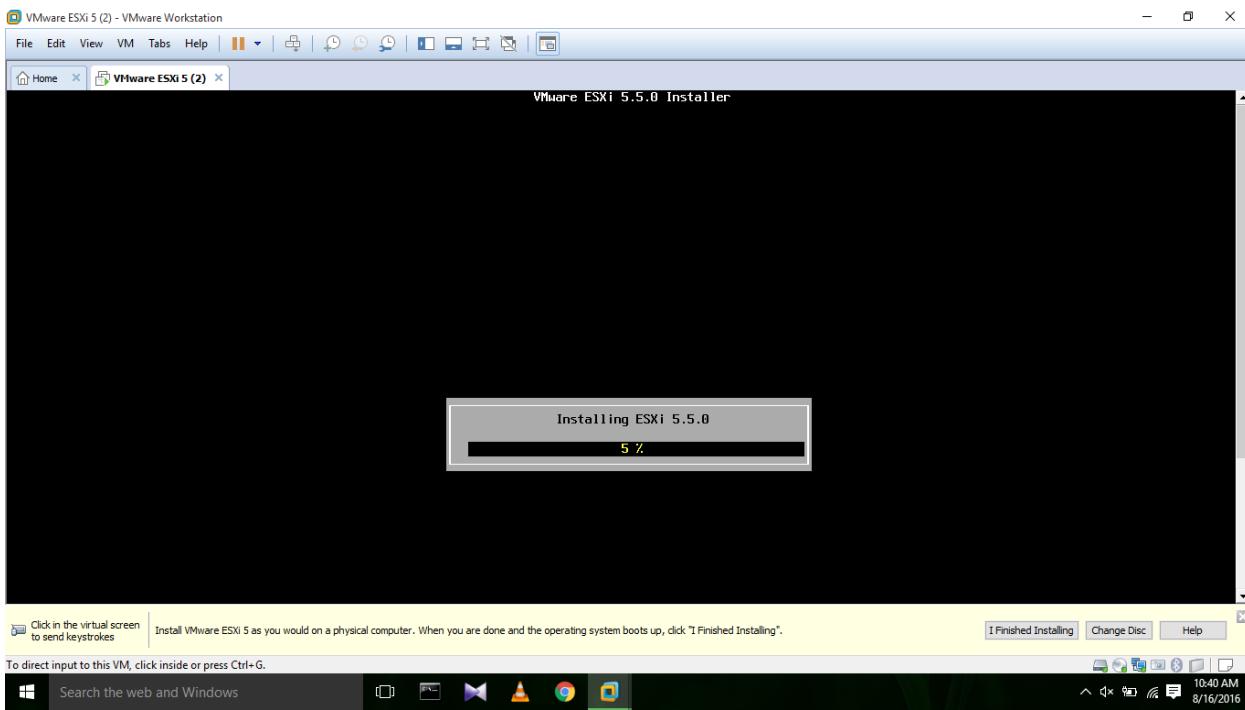
Enter a root password and press enter



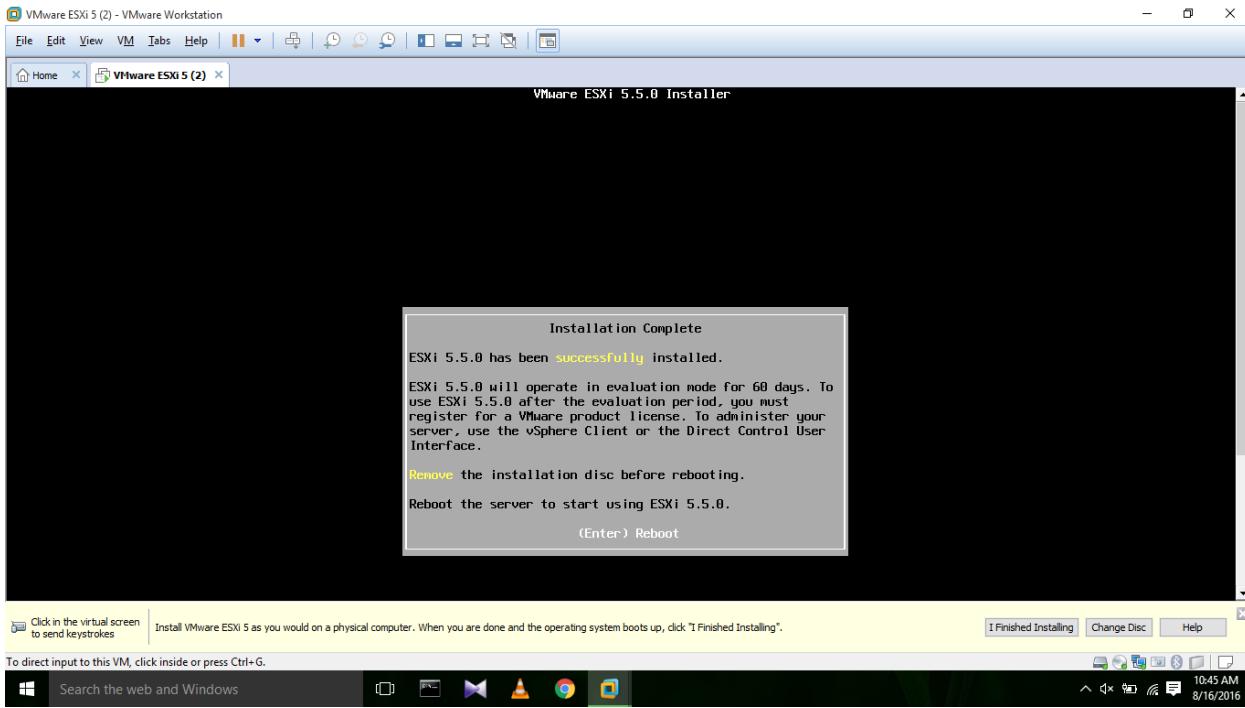


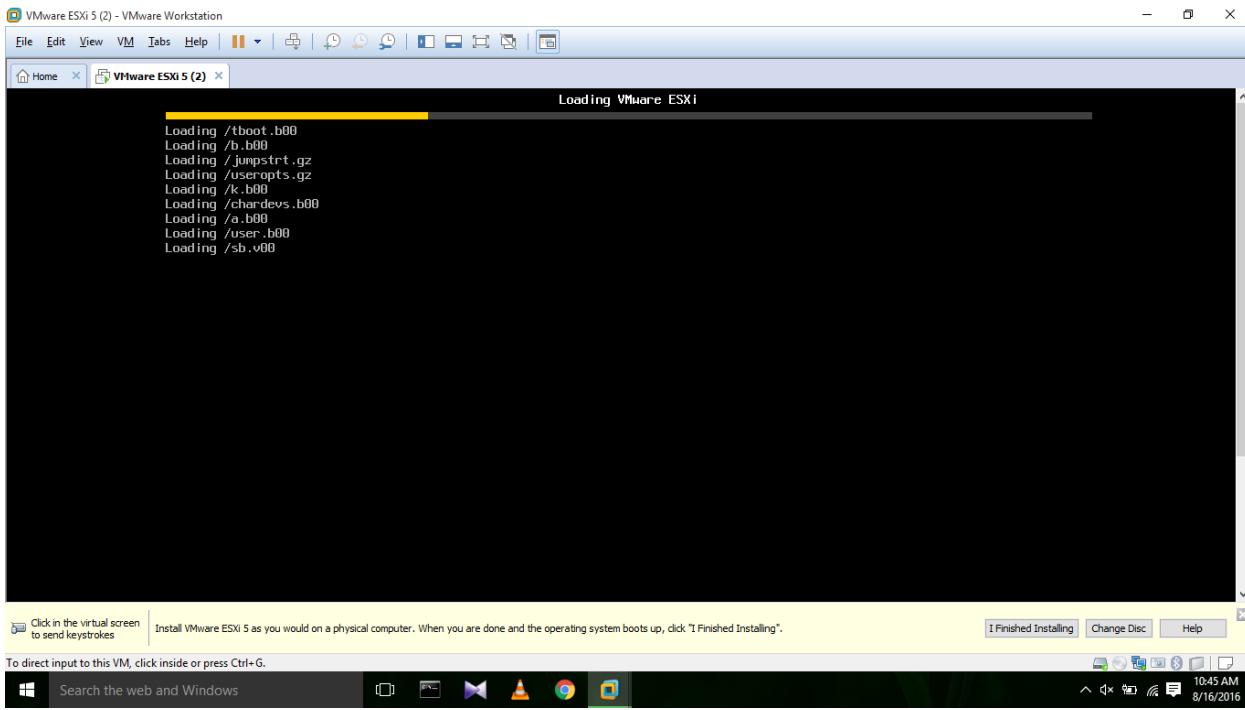
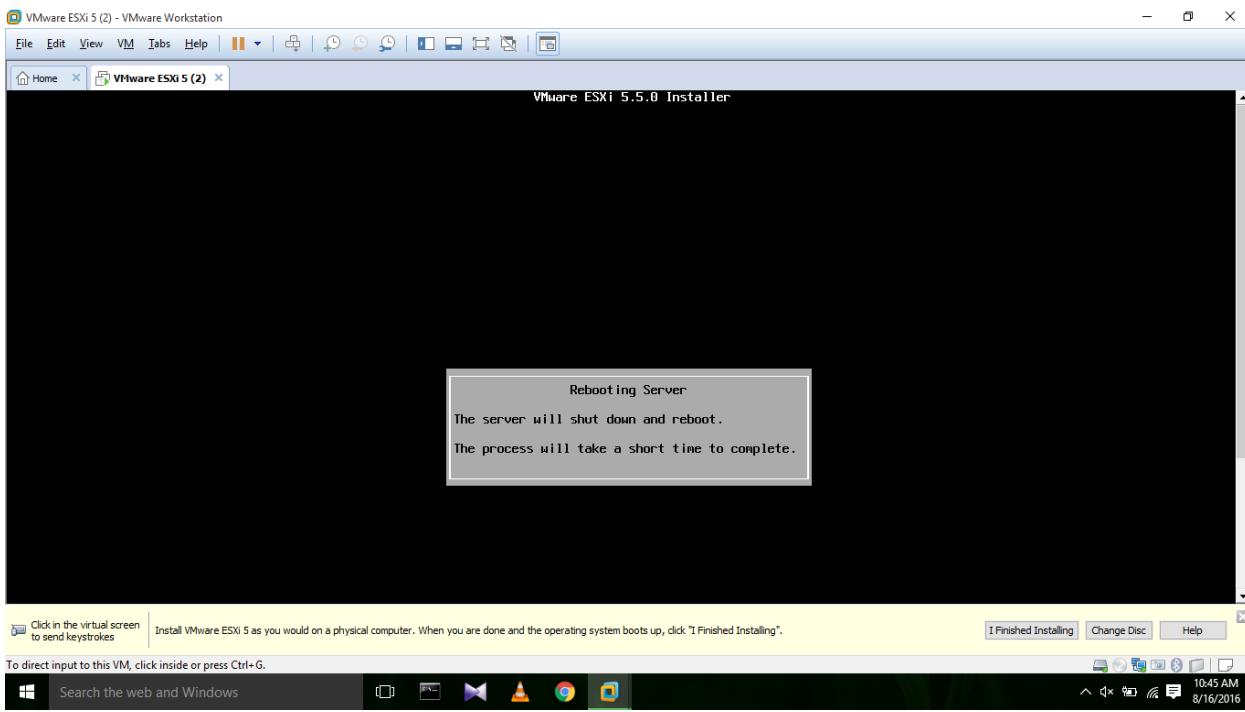
To confirm the install press f11 button

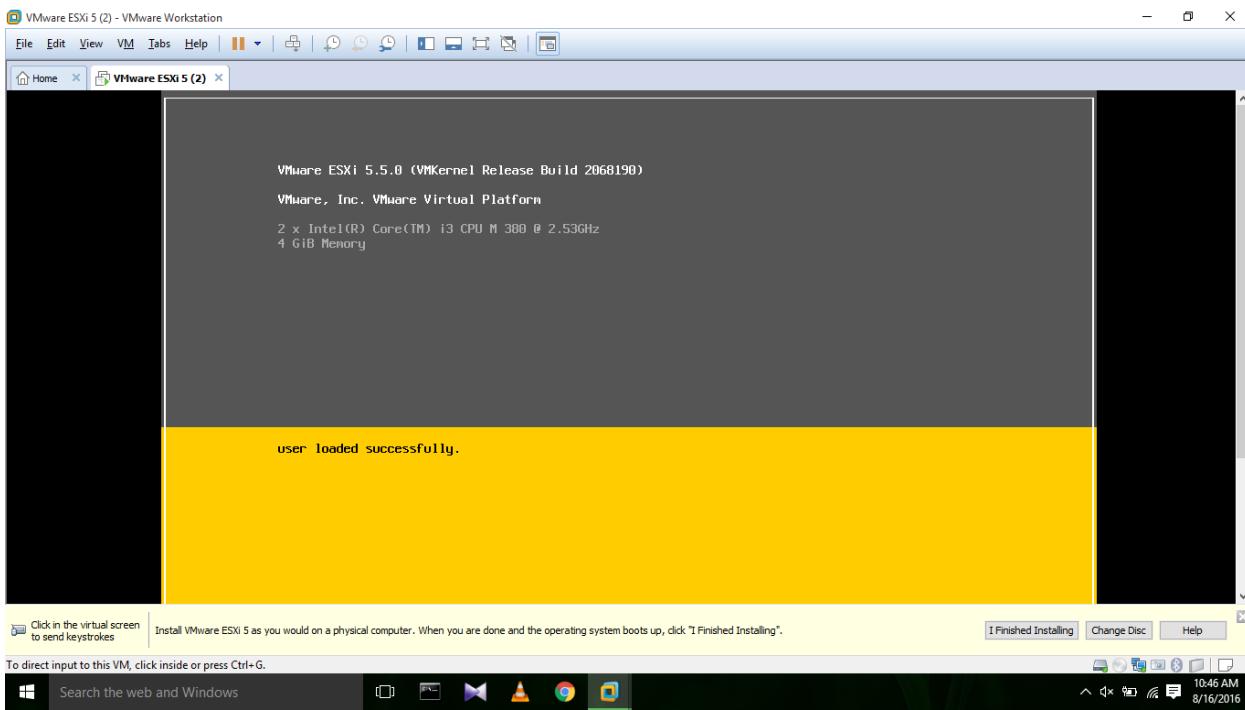




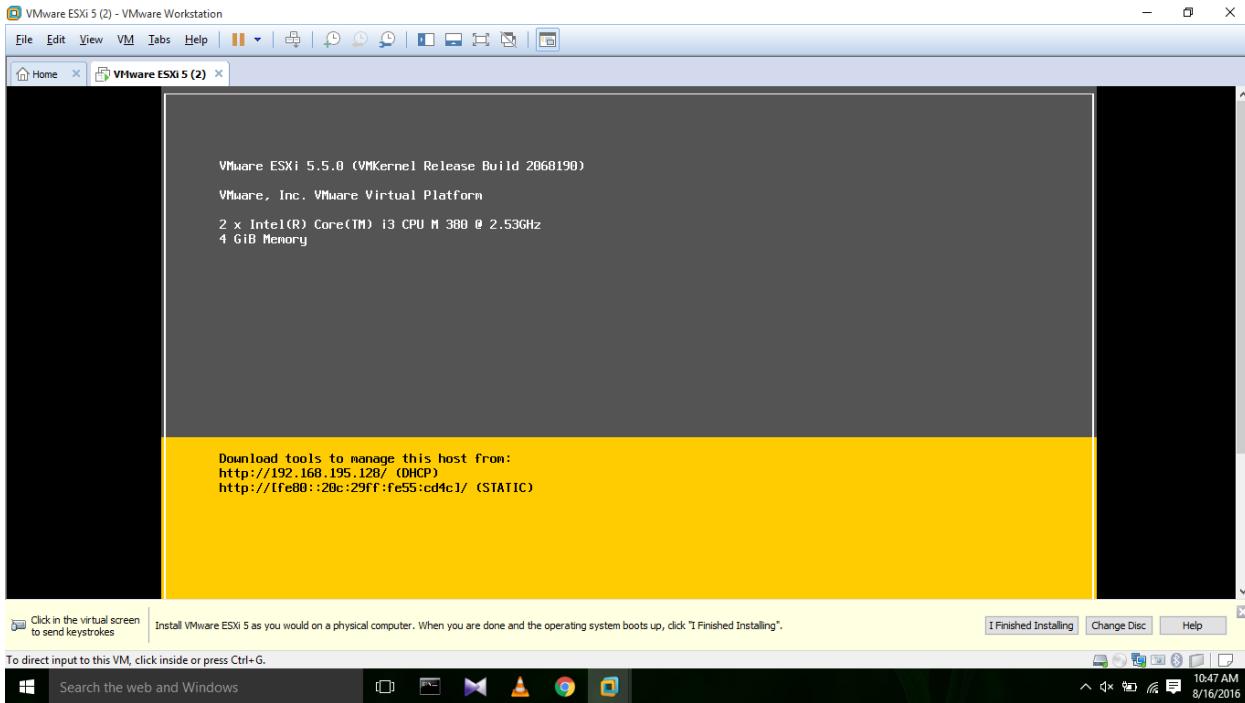
After EXSi 5.5.0 successfully installed have to reboot .for that press enter

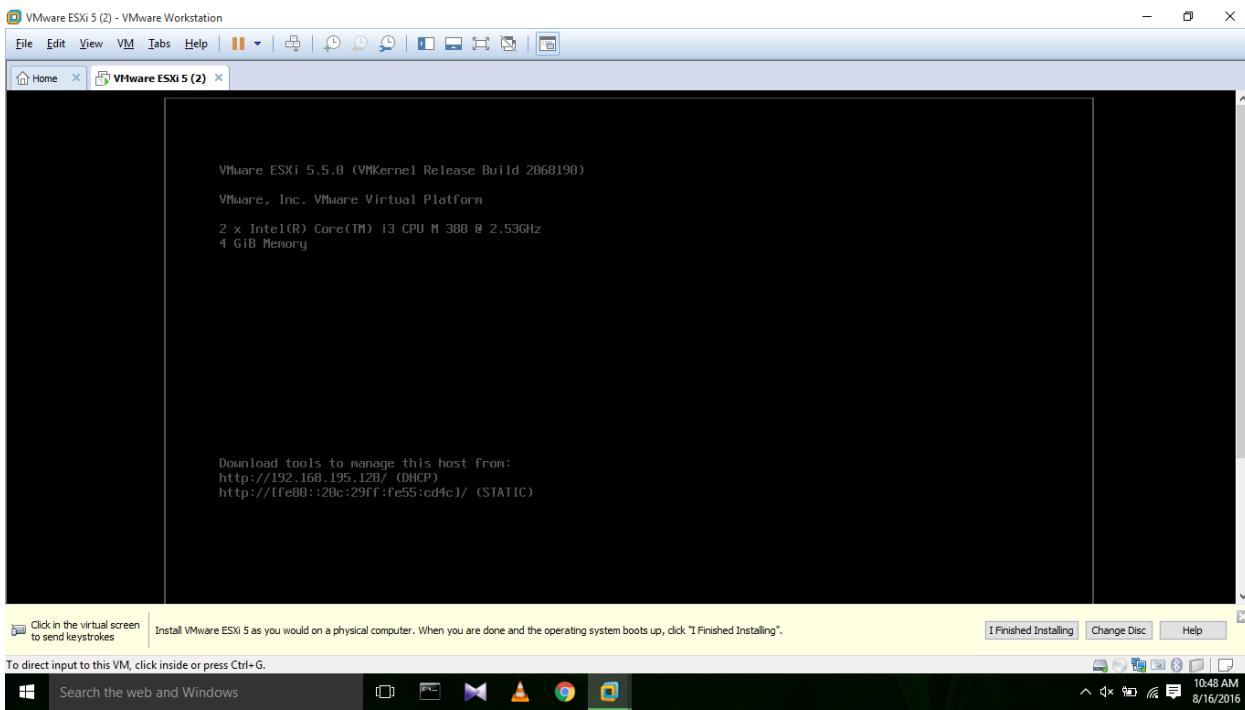






After loaded successfully you'll get the IP address





To download vSphere client search by the URL displayed before.

**Getting Started**

If you need to access this host remotely, use the following program to install vSphere Client software. After running the installer, start the client and log in to this host.

Please note that the traditional vSphere Client does not support features added to vSphere in the 5.1 and 5.5 releases. The traditional vSphere Client is intended for use if you need to connect directly to an ESXi host, are performing certain vSphere Update Manager operations, or are running vCenter Plug-ins that support only the vSphere Client such as vCenter Site Recovery Manager or vCenter Multi-Hypervisor Manager.

You can take advantage of the fullest range of functionality introduced or updated in this release by using the vSphere Web Client.

- [Download vSphere Client](#)

To streamline your IT operations with vSphere, use the following program to install vCenter. vCenter will help you consolidate and optimize workload distribution across ESX hosts, reduce new system deployment time from weeks to seconds, monitor your virtual computing environment around the clock, avoid service disruptions due to planned hardware maintenance or unexpected failure, centralize access control, and automate system administration tasks.

- [Download VMware vCenter](#)

If you need more help, please refer to our documentation library:

- [vSphere Documentation](#)

**For Administrators**

**vSphere Remote Command Line**

The Remote Command Line allows you to use command line tools to manage vSphere from a client machine. These tools can be used in shell scripts to automate day-to-day operations.

- [Download the Virtual Appliance](#)
- [Download the Windows Installer \(.exe\)](#)
- [Download the Linux Installer \(.tar.gz\)](#)

**Web-Based Datastore Browser**

Use your web browser to find and download files (for example, virtual machine and virtual disk files).

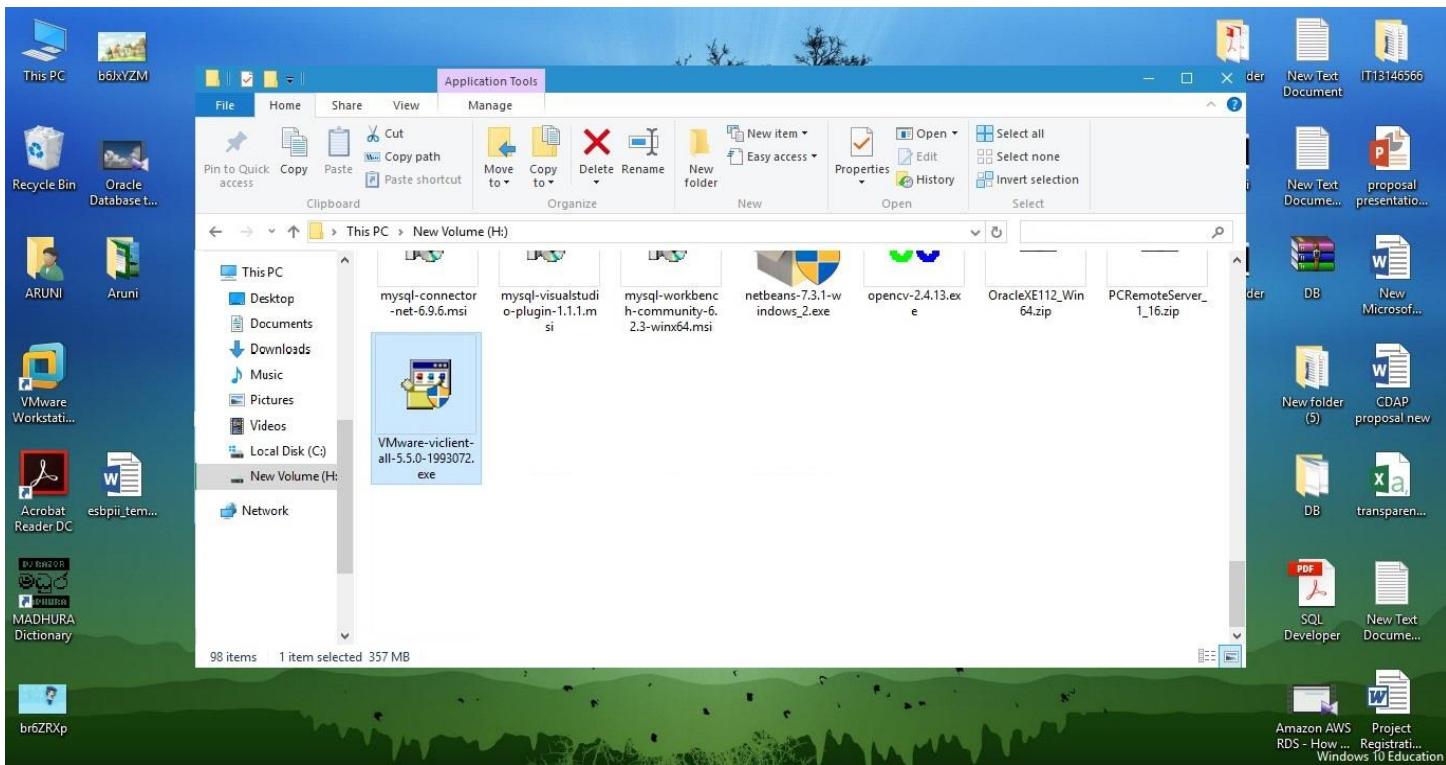
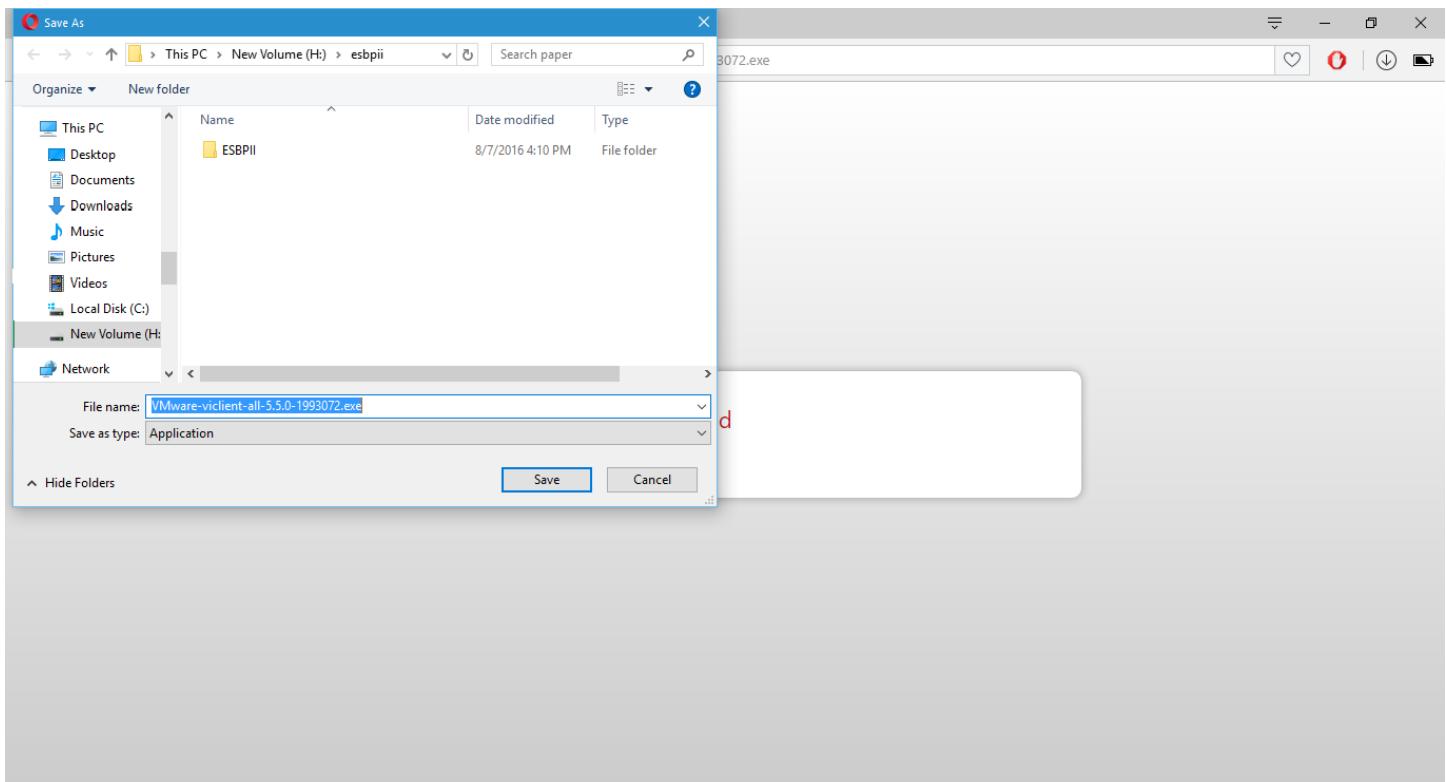
- [Browse datastores in this host's inventory](#)

**For Developers**

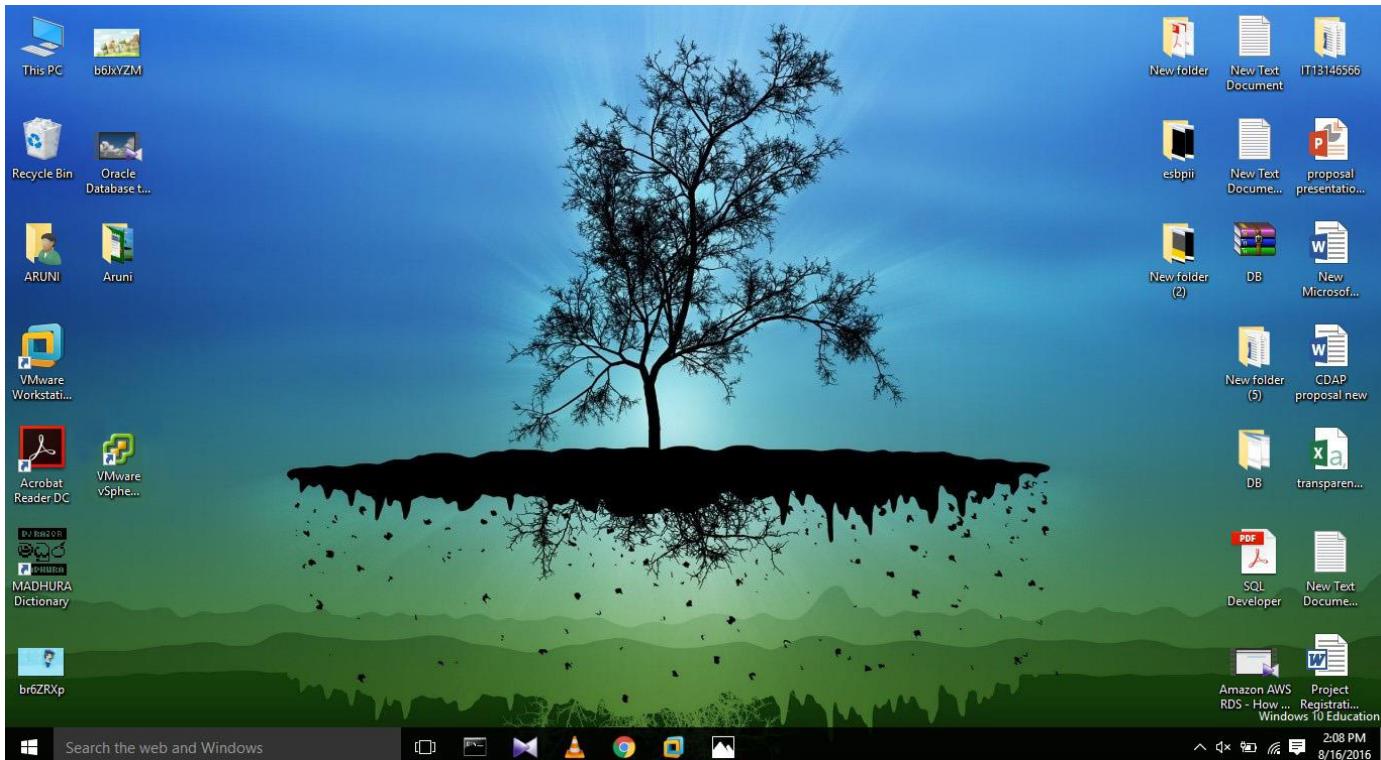
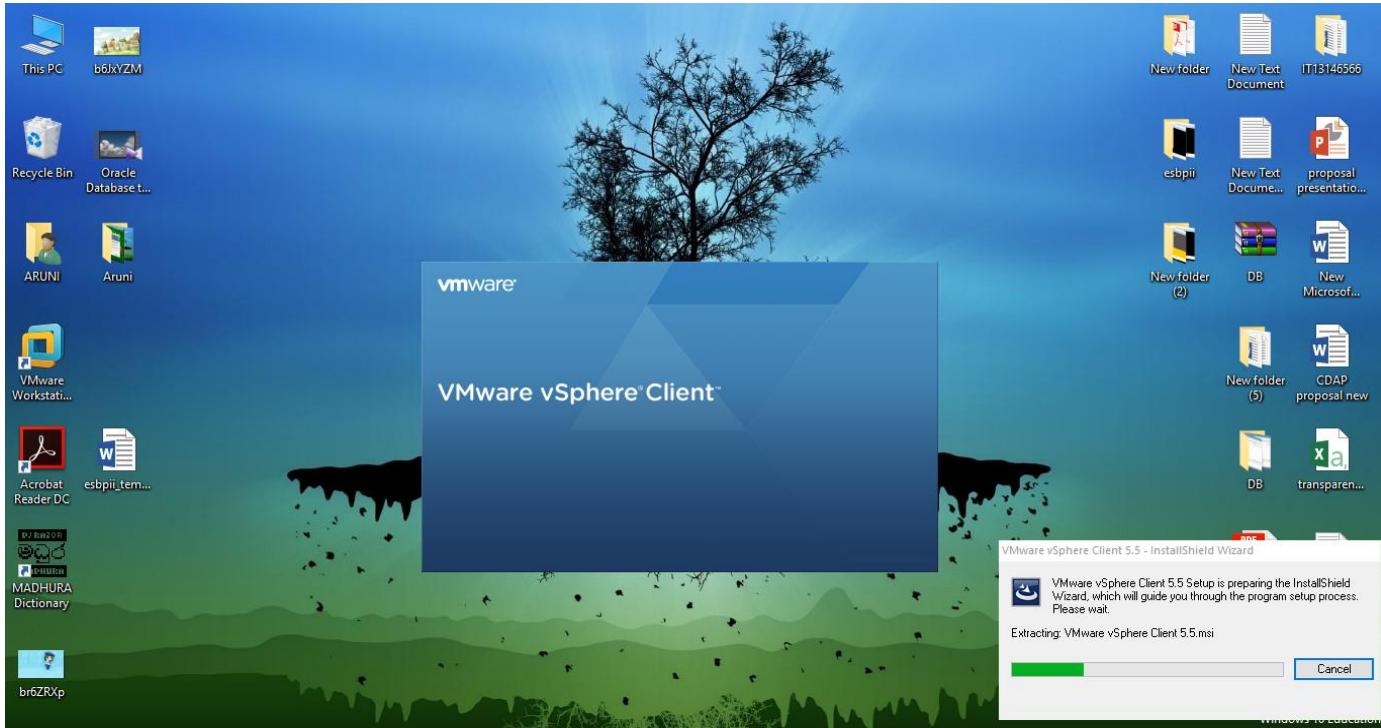
**vSphere Web Services SDK**

Learn about our latest SDKs, Toolkits, and APIs for managing (vSphere, ESXi), and VMware vCenter. Get sample code, reference documentation, participate in our Forum Discussions, and view our latest Sessions and Webinars.

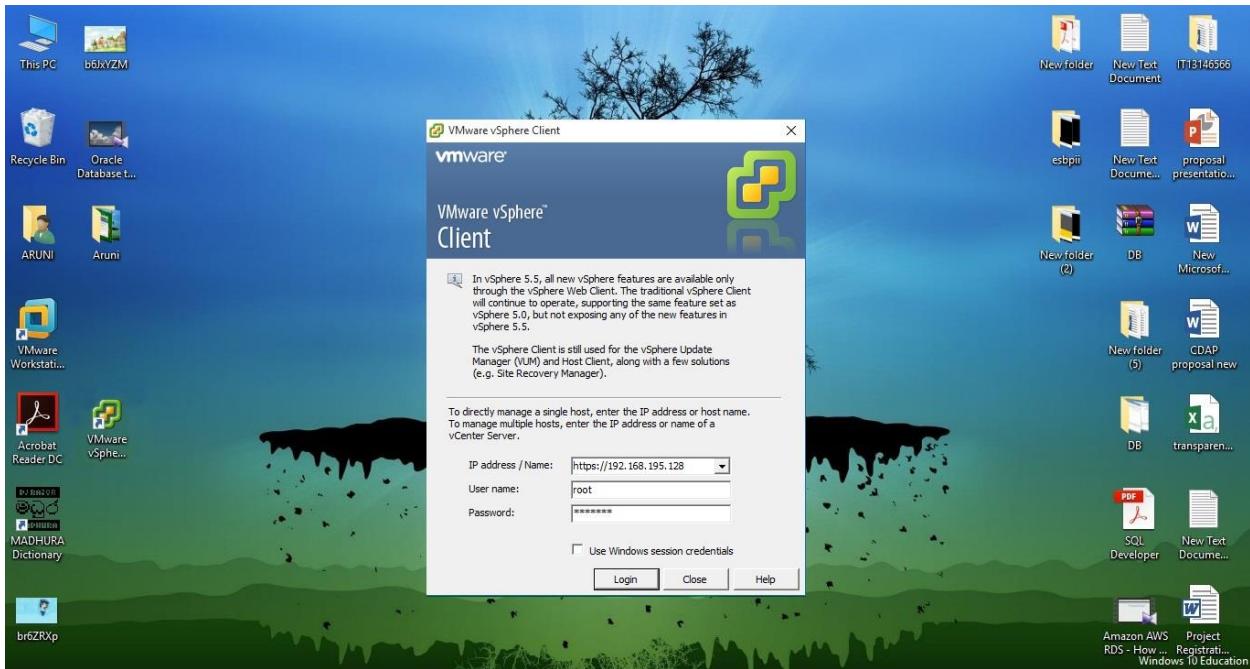
- [Learn more about the Web Services SDK](#)
- [Browse objects managed by this host](#)

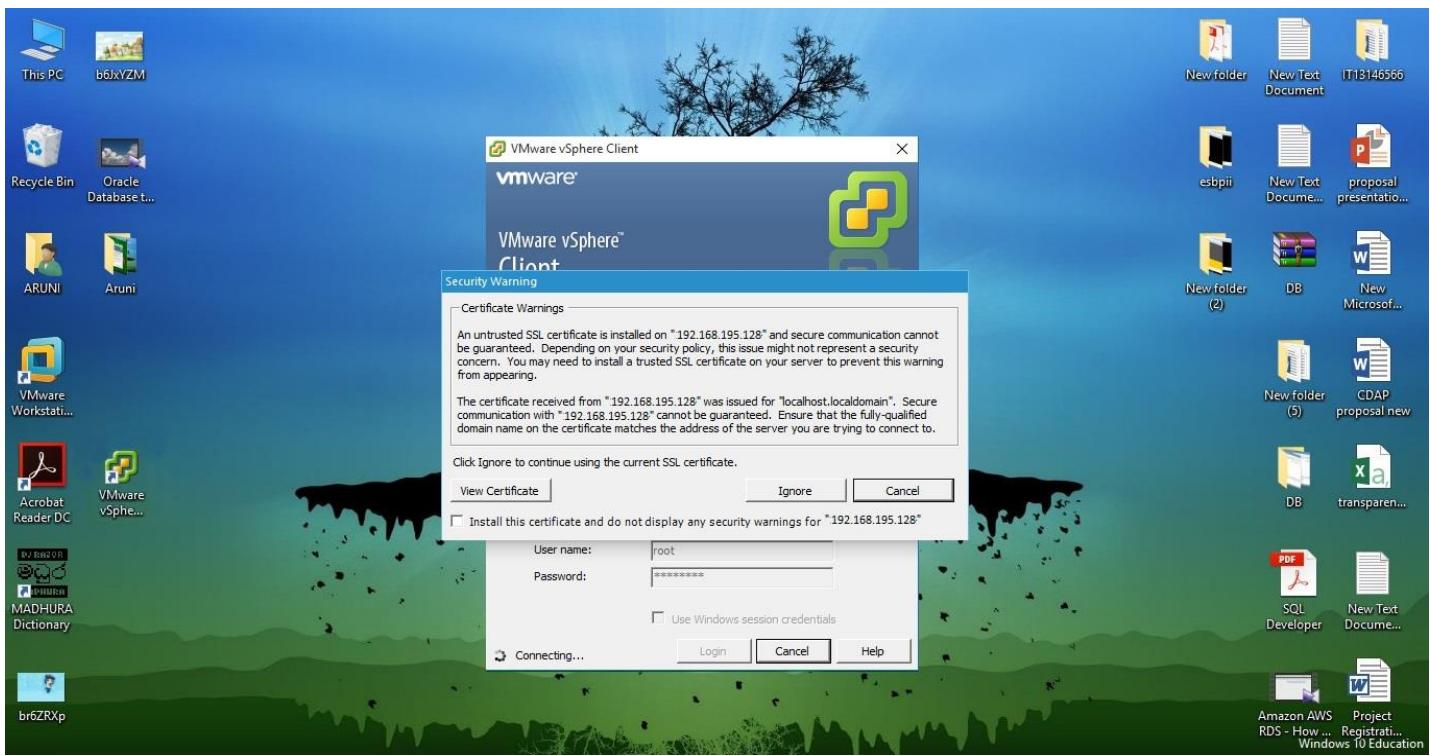


Then run the downloaded exe



Open the installed application and it will prompt the window to insert some information. Fill those information as the next figures





Since the client and server in different in machines (operating systems) using the client machine we are going to install a new operating system for the server (which is in the virtual machine) using following configurations.

Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time
Auto power On	192.168.195.1...	Completed		root	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM

192.168.195.128 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home

**Inventory**

Inventory

**Administration**

Roles System Logs

**Recent Tasks**

Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time
Auto power On	192.168.195.1...	Completed		root	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM

Evaluation Mode: 60 days remaining root

Select new virtual machine as below

192.168.195.128 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home > Inventory > Inventory

New Virtual Machine... Ctrl+N

New Resource Pool... Ctrl+O

Enter Maintenance Mode

Rescan for Datastores...

Add Permission... Ctrl+P

Shut Down

Reboot

Report Summary...

Report Performance...

Open in New Window... Ctrl+Alt+N

VMware ESXi, 5.5.0, 2068190 | Evaluation (60 days remaining)

Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions close tab X

Host

vSphere Client

Virtual Machines

Basic Tasks

Deploy from VA Marketplace

Create a new virtual machine

Explore Further

Learn about vSphere

**Recent Tasks**

Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time
Auto power On	192.168.195.1...	Completed		root	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM

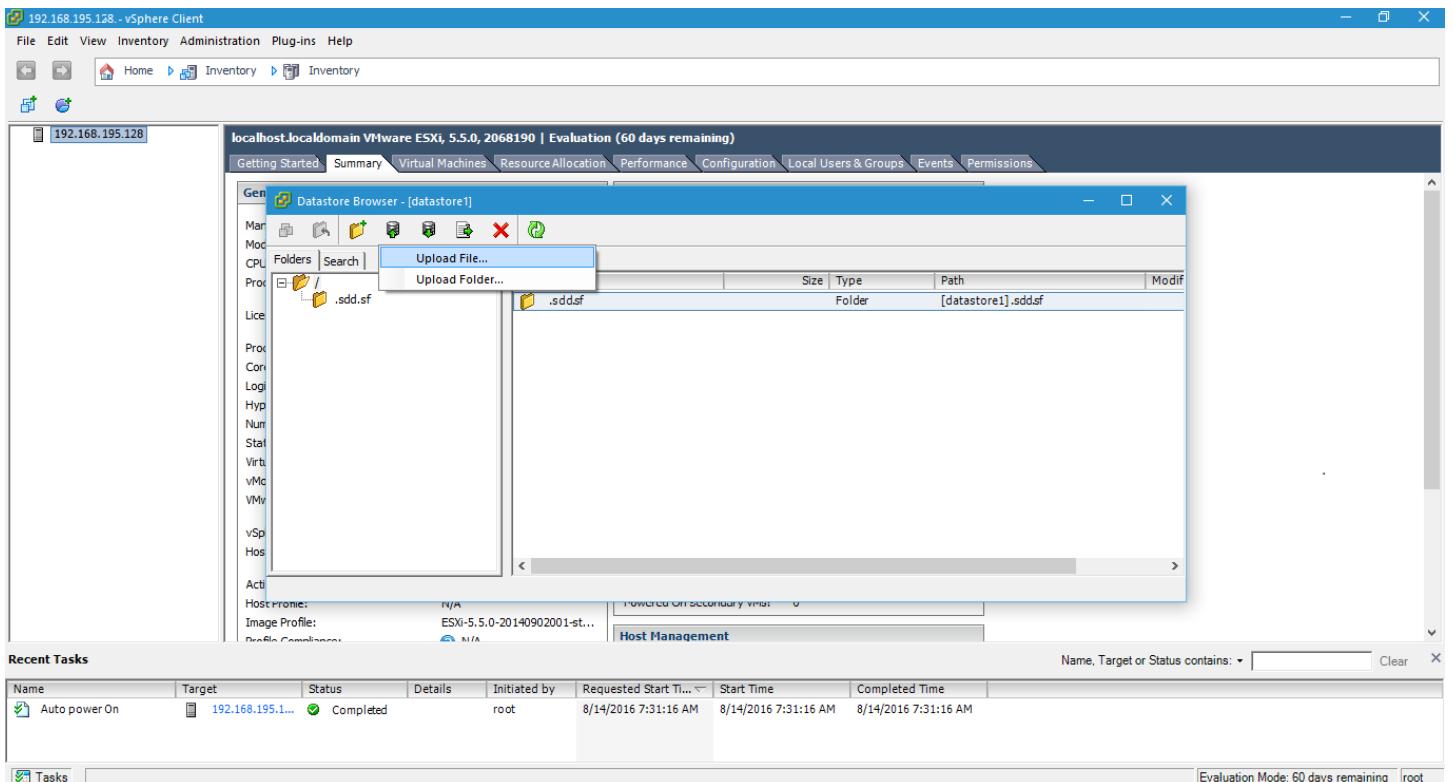
Evaluation Mode: 60 days remaining root

In summary tab have to browse a datastore as below

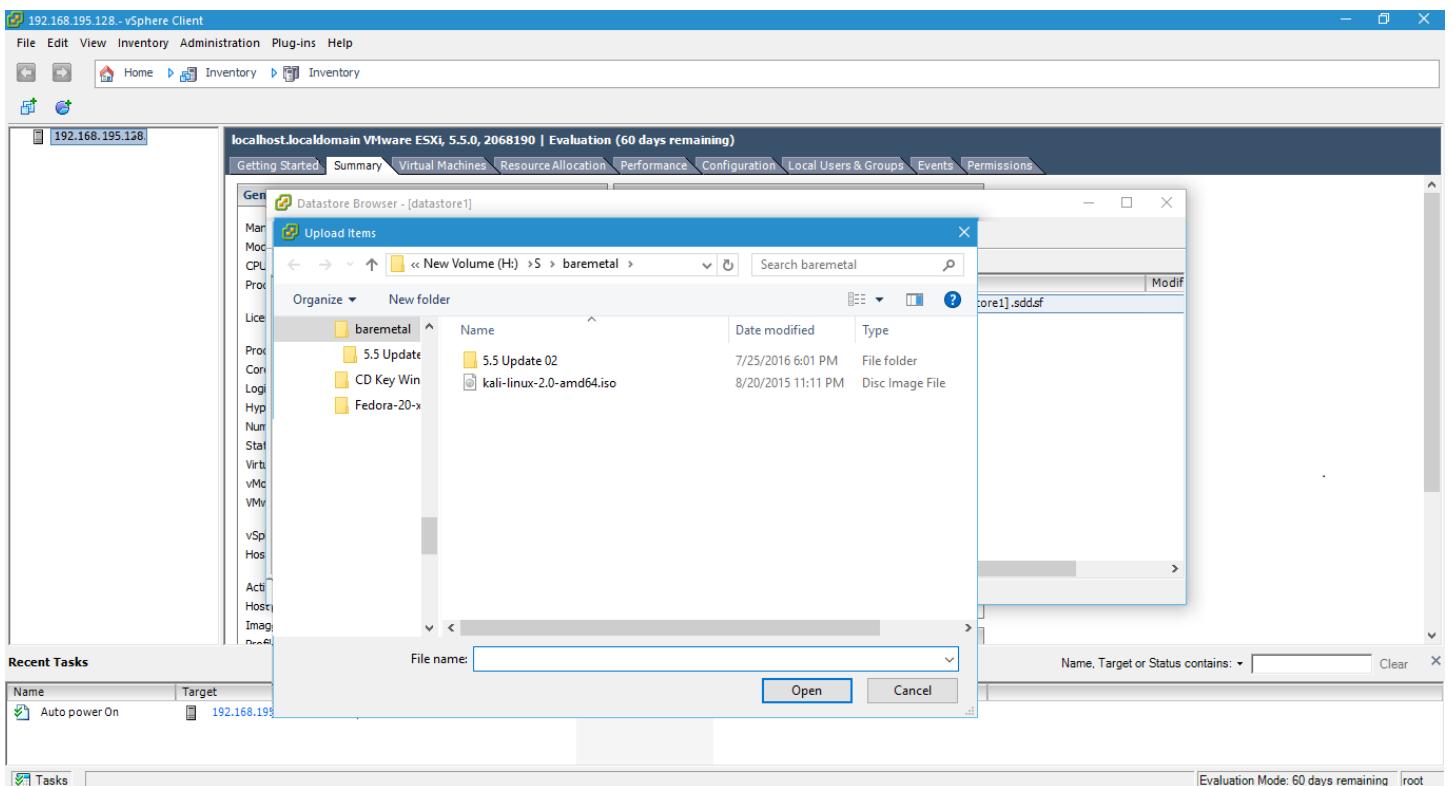
The screenshot shows the vSphere Client interface on a host named 'localhost.localdomain VMware ESXi, 5.5.0, 2068190 | Evaluation (60 days remaining)'. The 'Summary' tab is selected. In the 'Resources' section, a context menu is open over a 'datastore1' entry. The menu options include 'Browse Datastore...', 'Rename', 'Unmount', 'Delete', 'Refresh', and 'Properties...'. Other visible sections include 'General' (host configuration), 'Fault Tolerance' (status), and 'Host Management'.

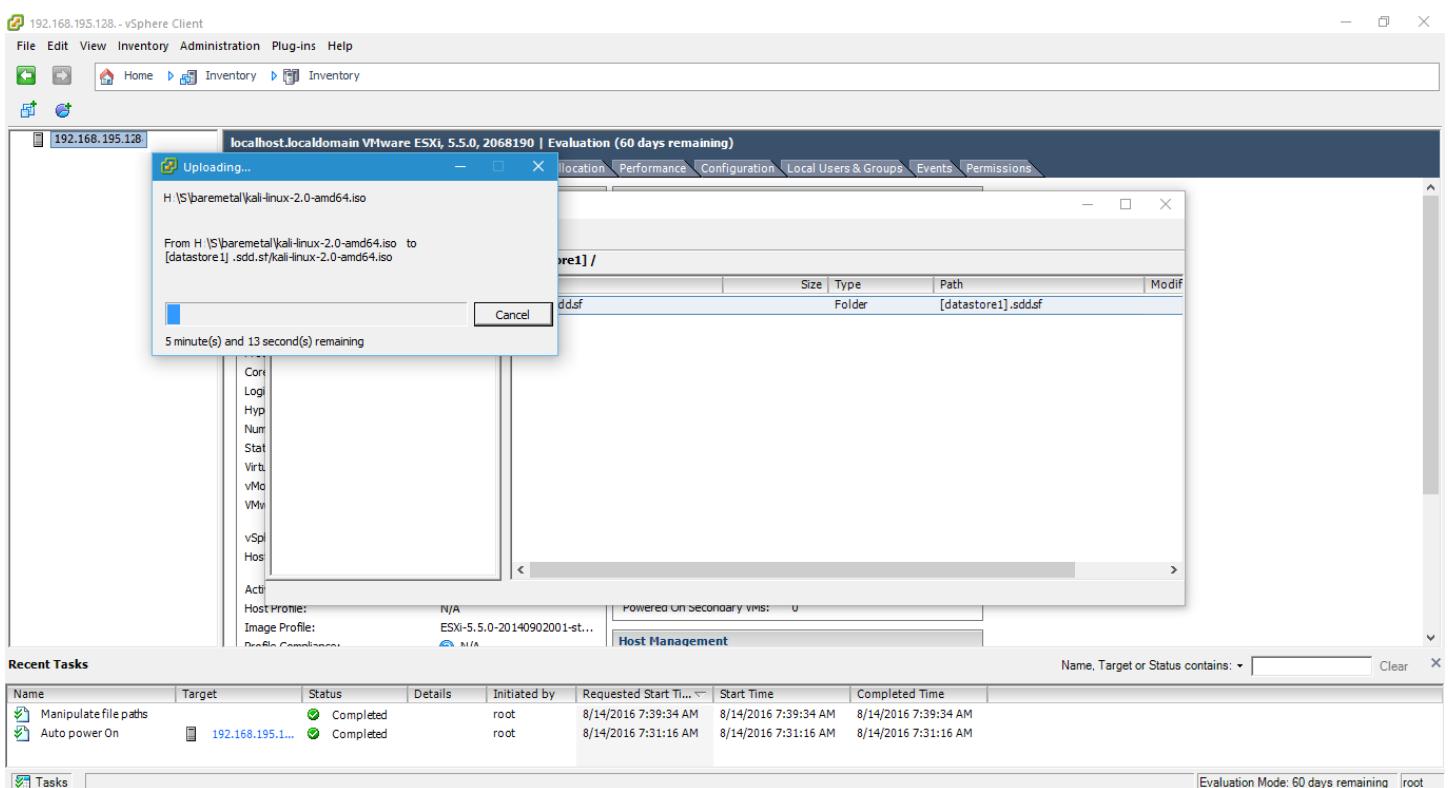
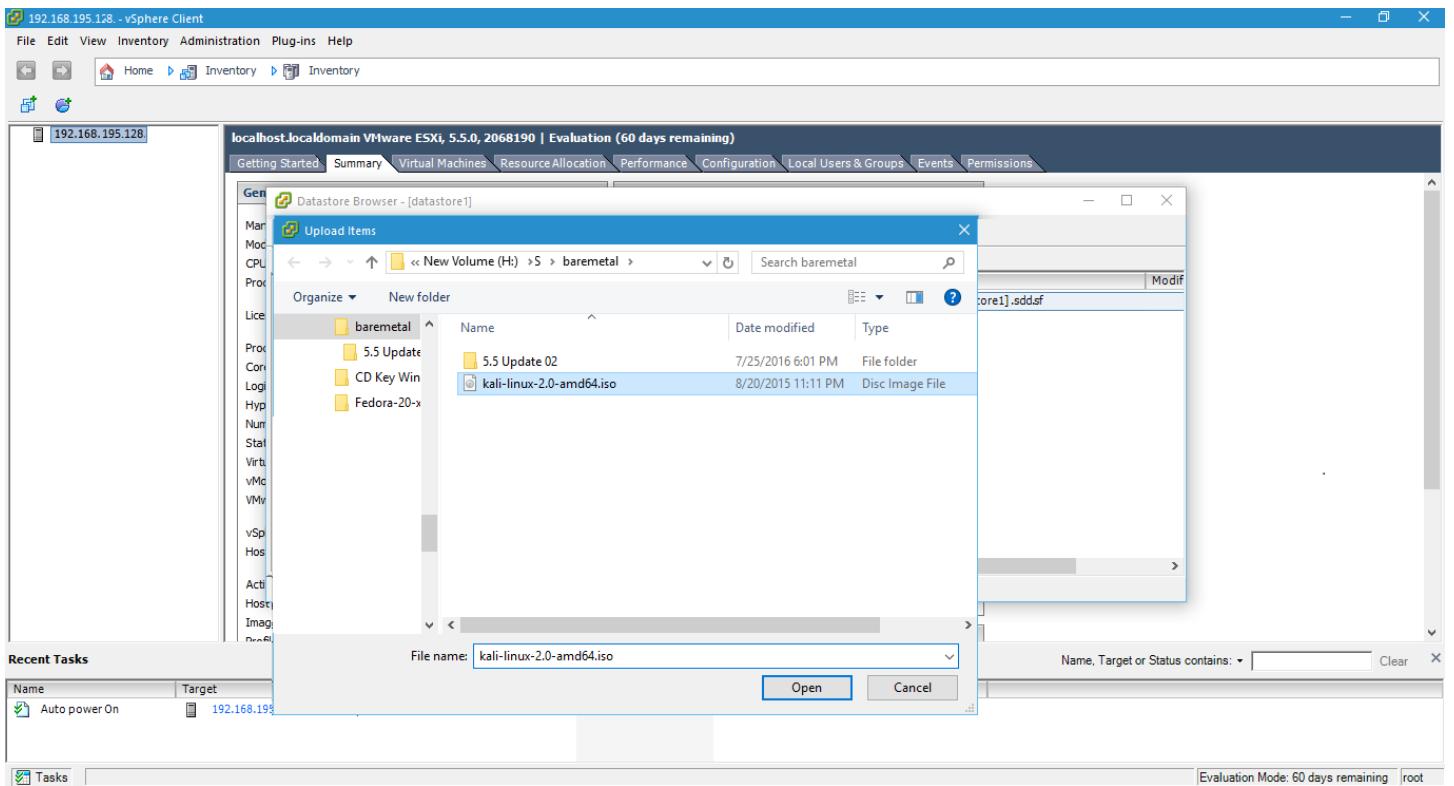
In data store browser you have to upload OS to the data store as following

The screenshot shows the vSphere Client interface on the same host. The 'Datastore Browser - [datastore1]' window is open. It displays a tree view of the datastore structure, showing a single folder named '.sddsf'. An 'Upload files to this datastore' input field is present at the top right. The 'Folders' tab is selected. The 'Recent Tasks' panel shows a completed task 'Auto power On'.

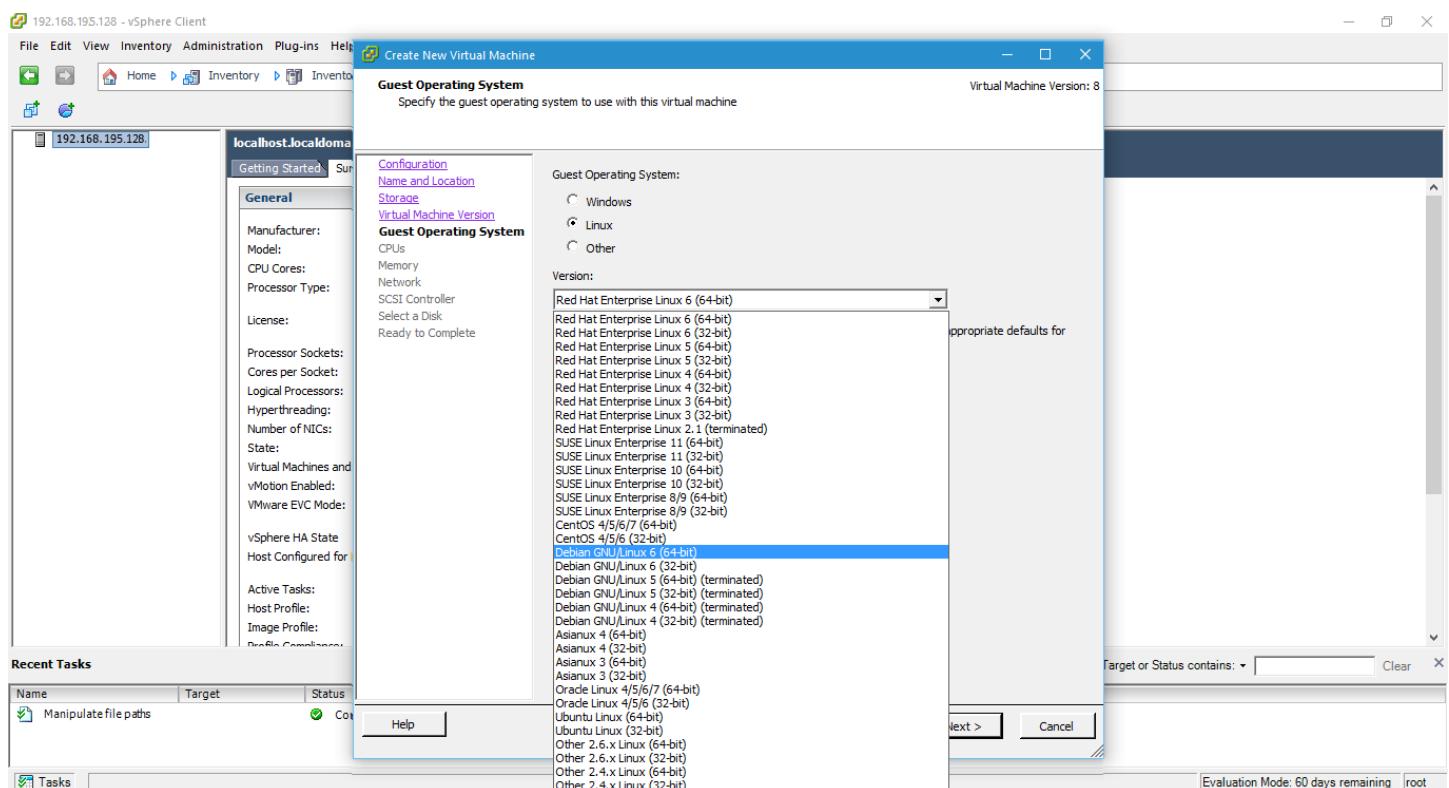
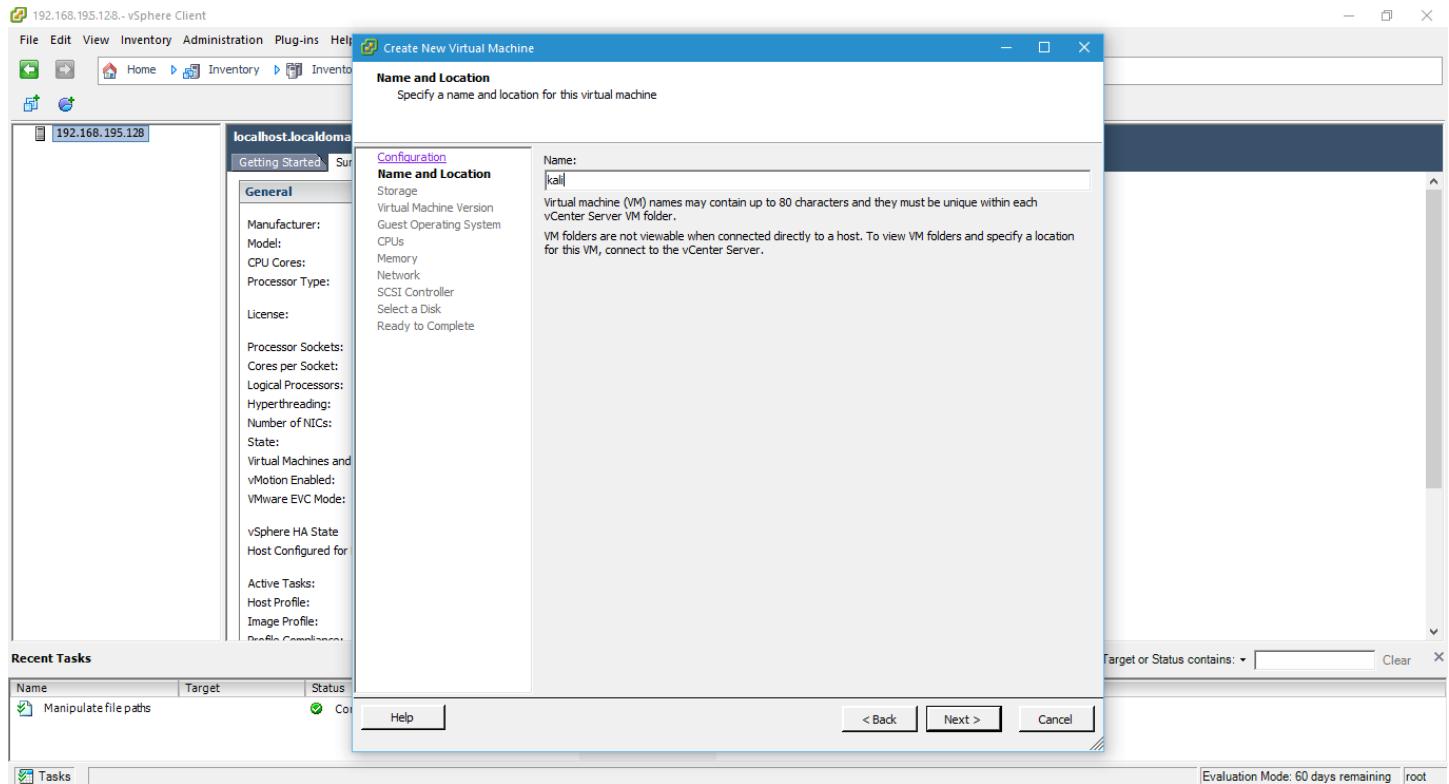


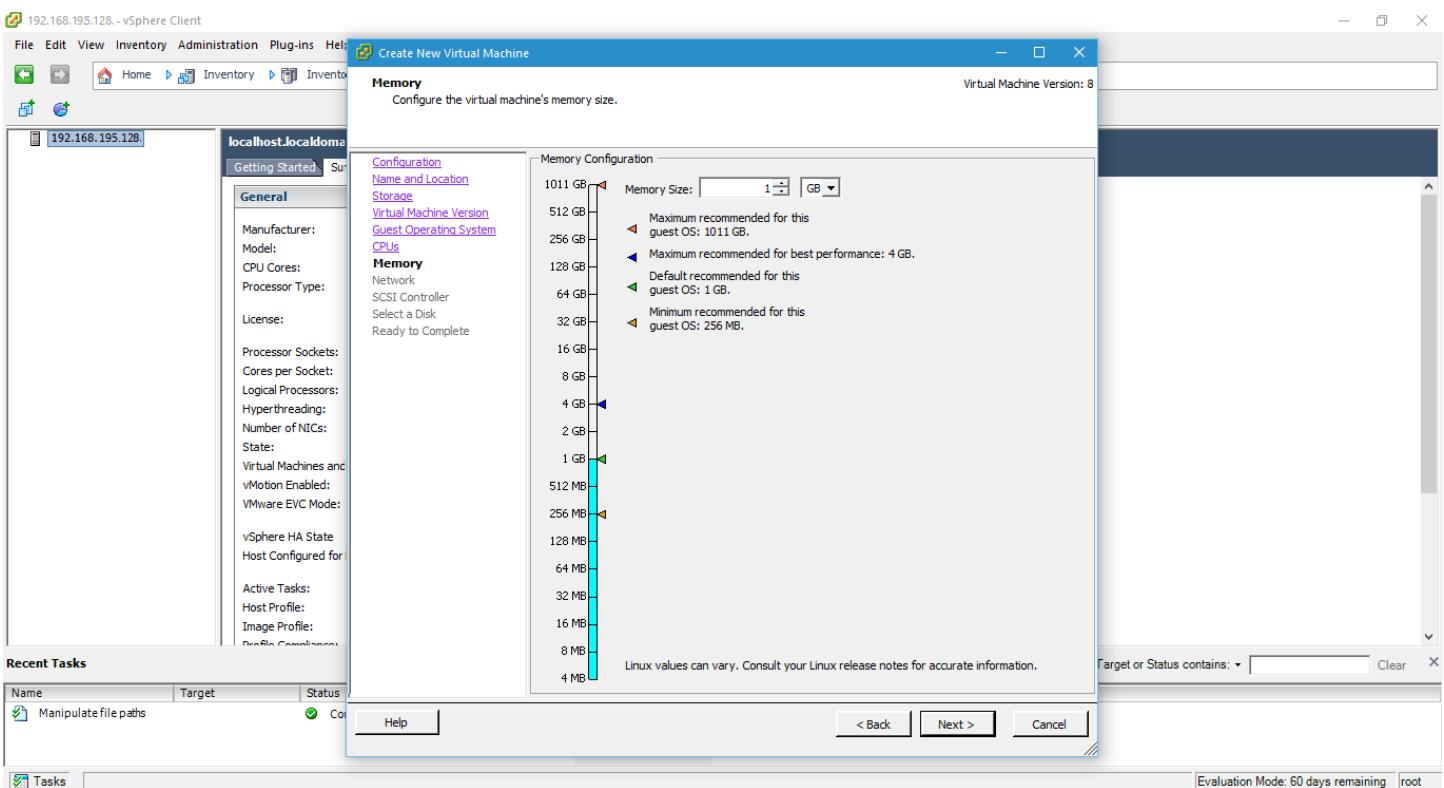
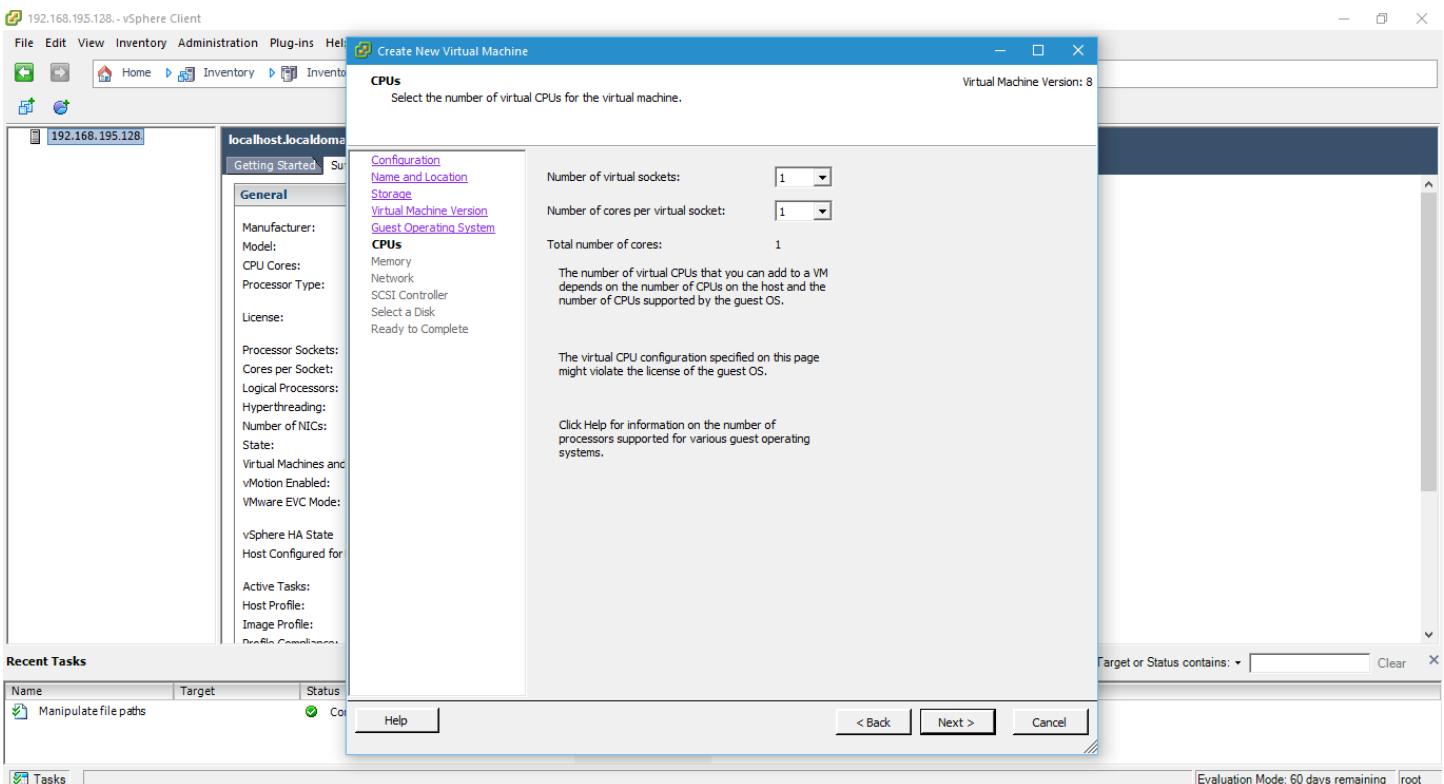
Select kali-Linux OS which is going to be installed as the operating system on the virtual machine

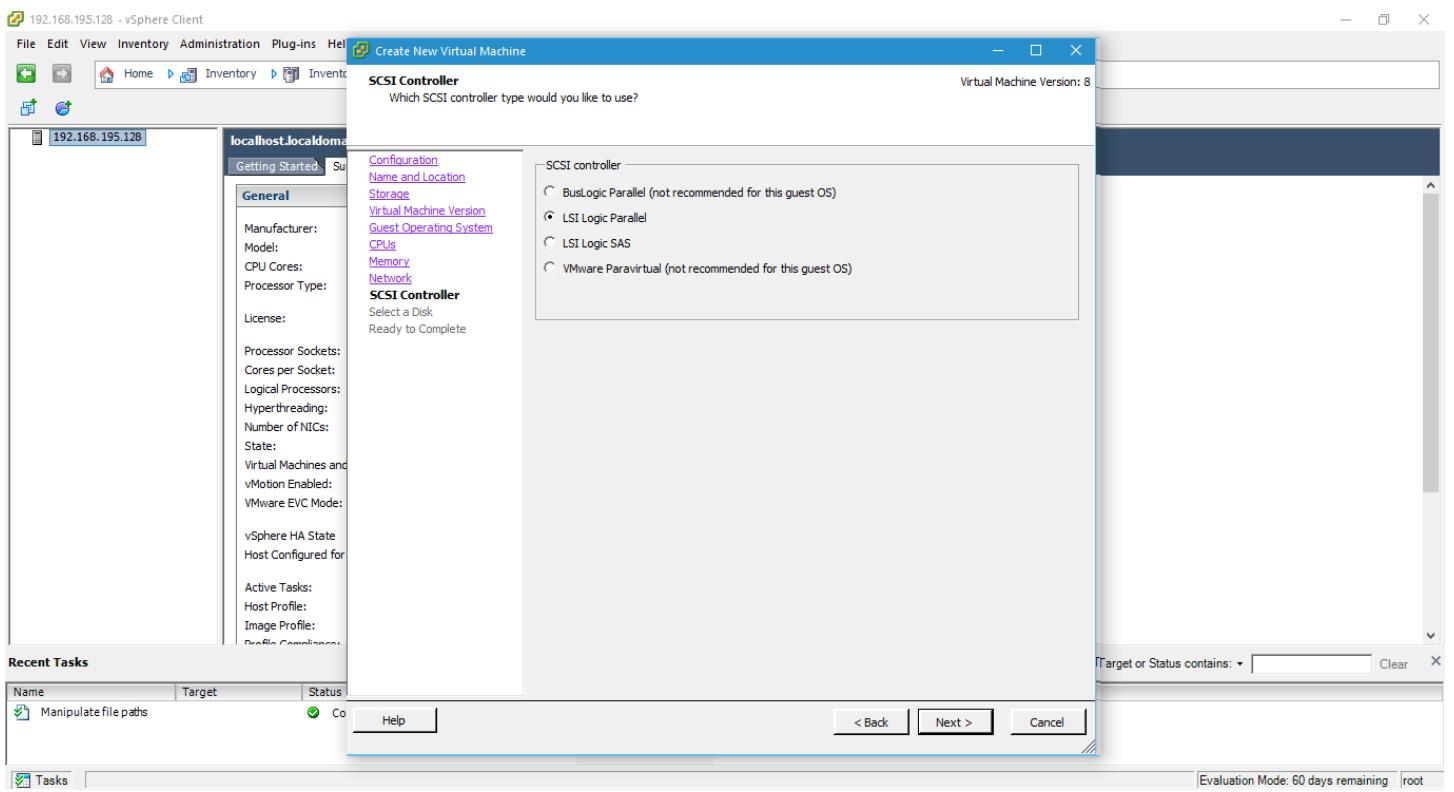
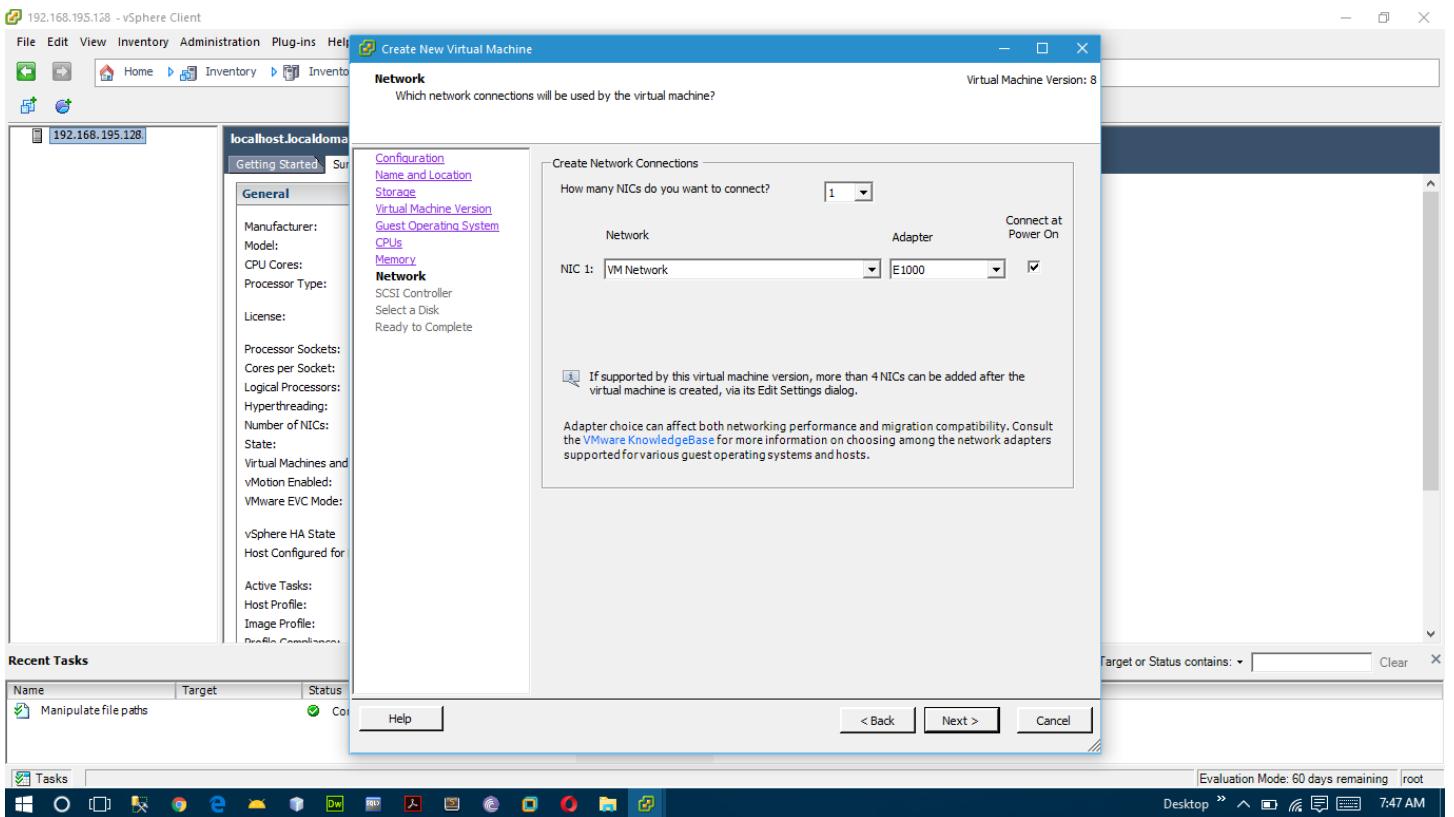


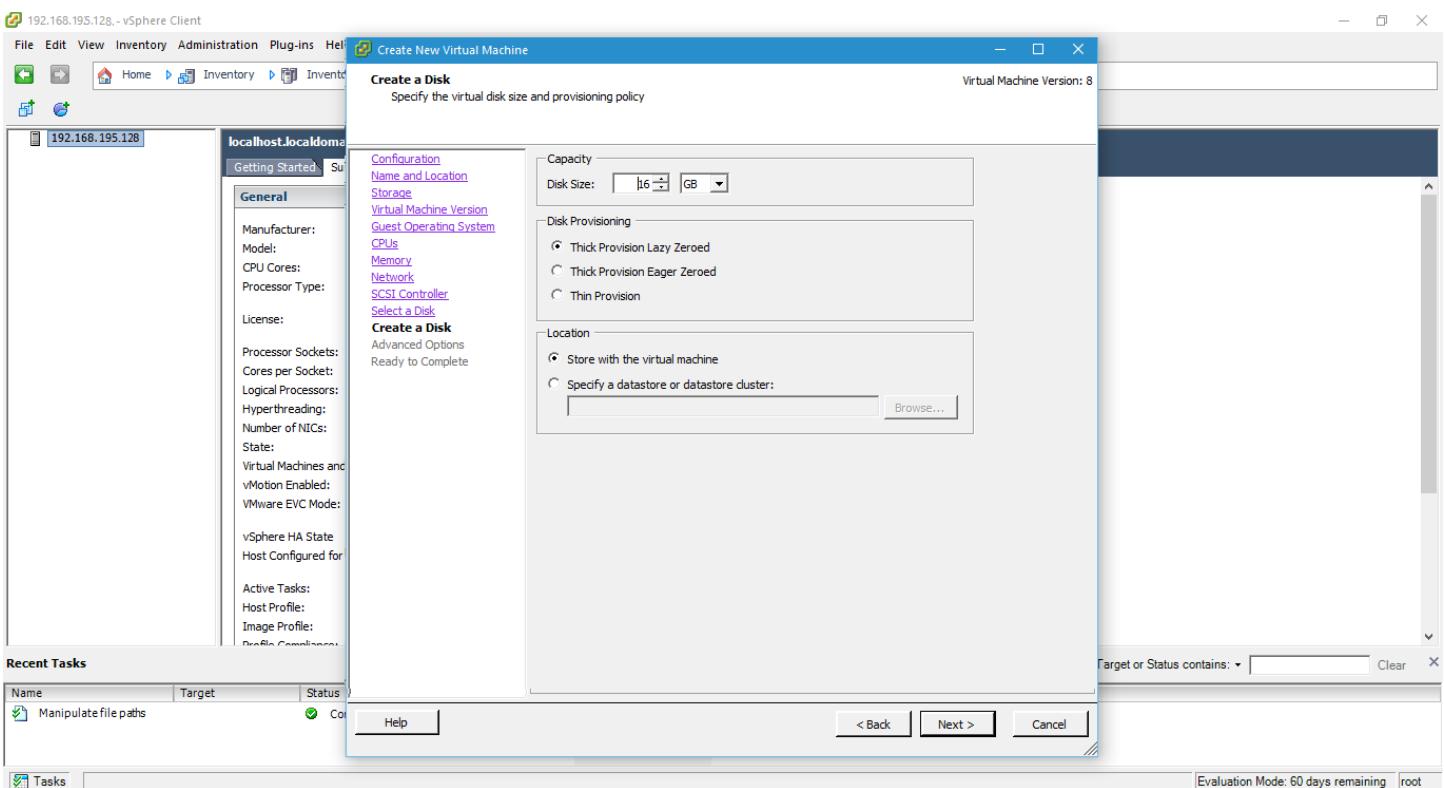
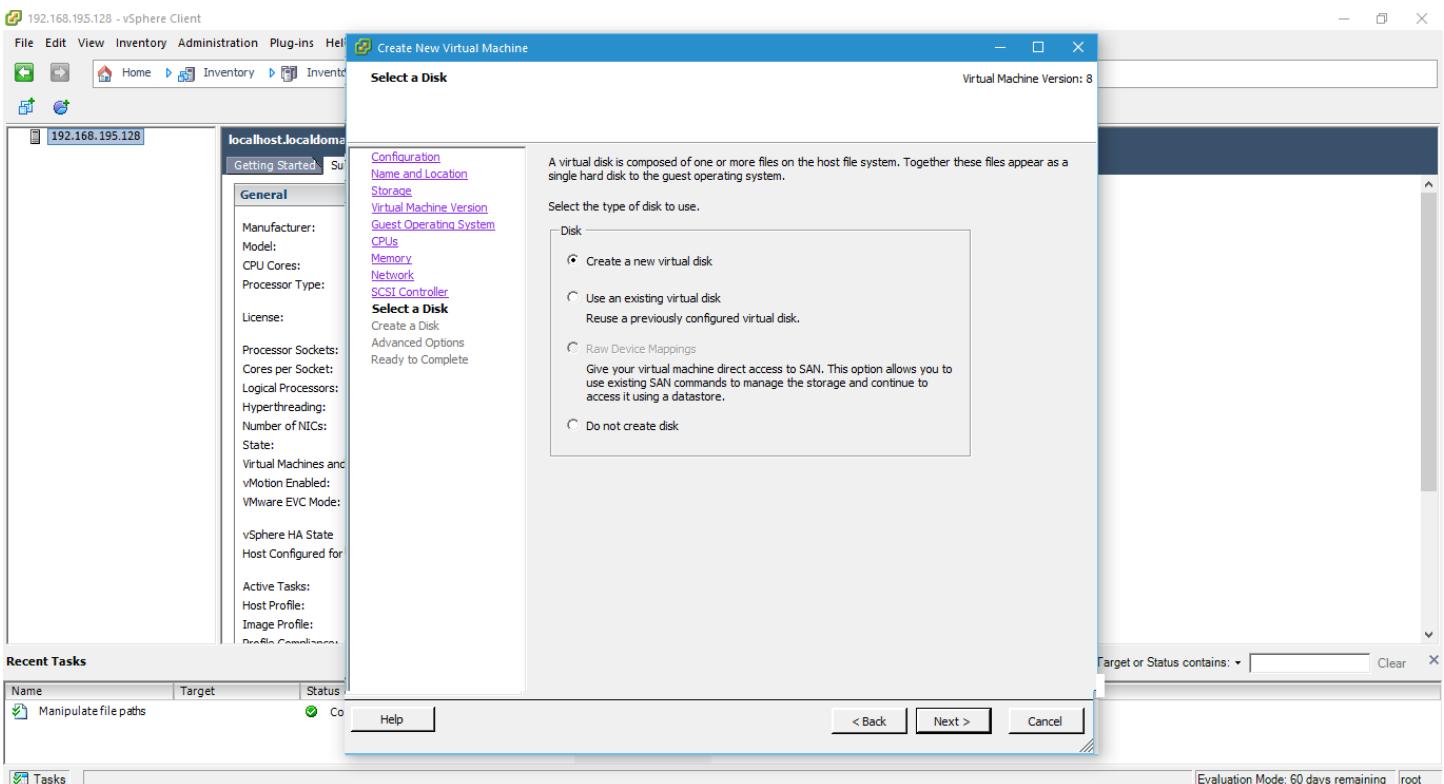


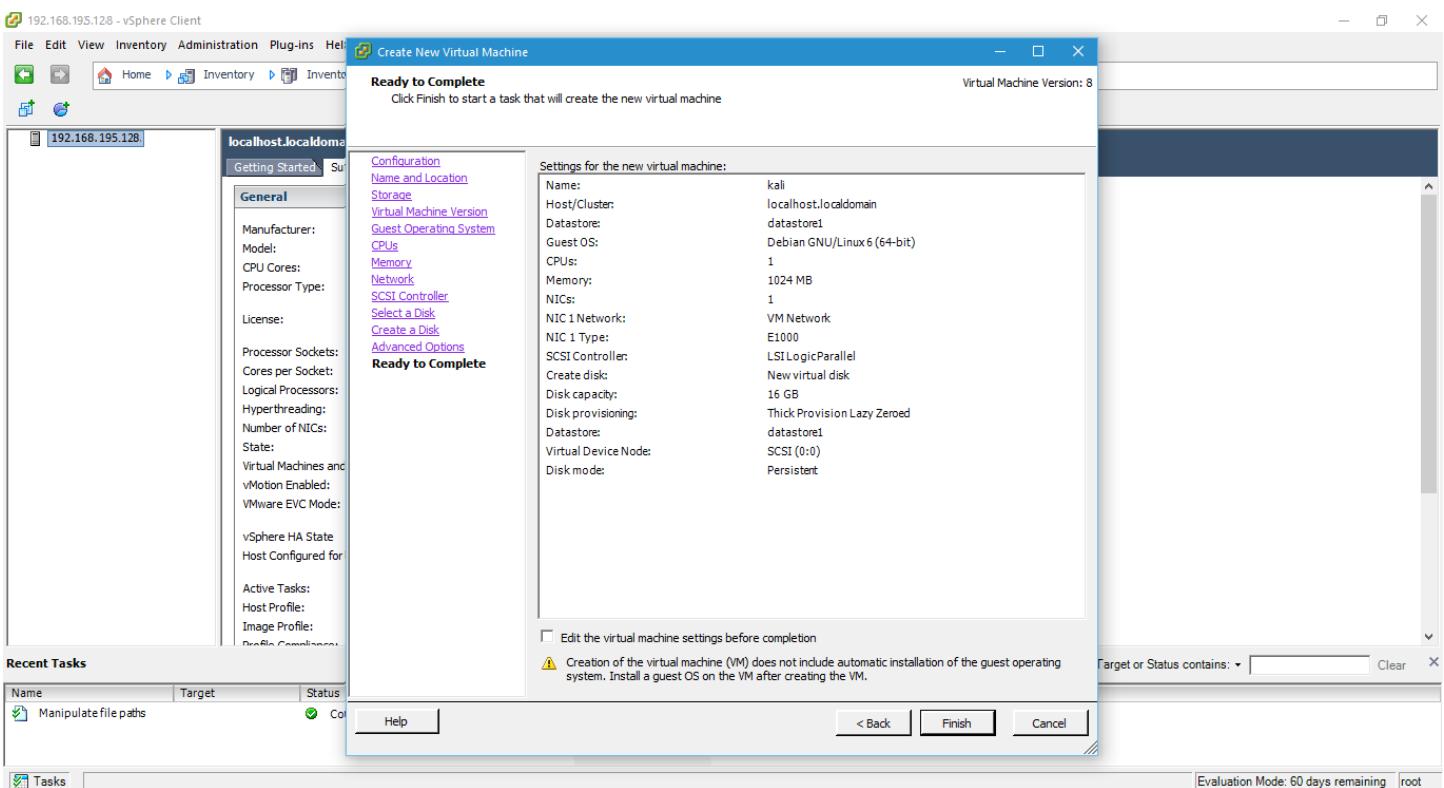
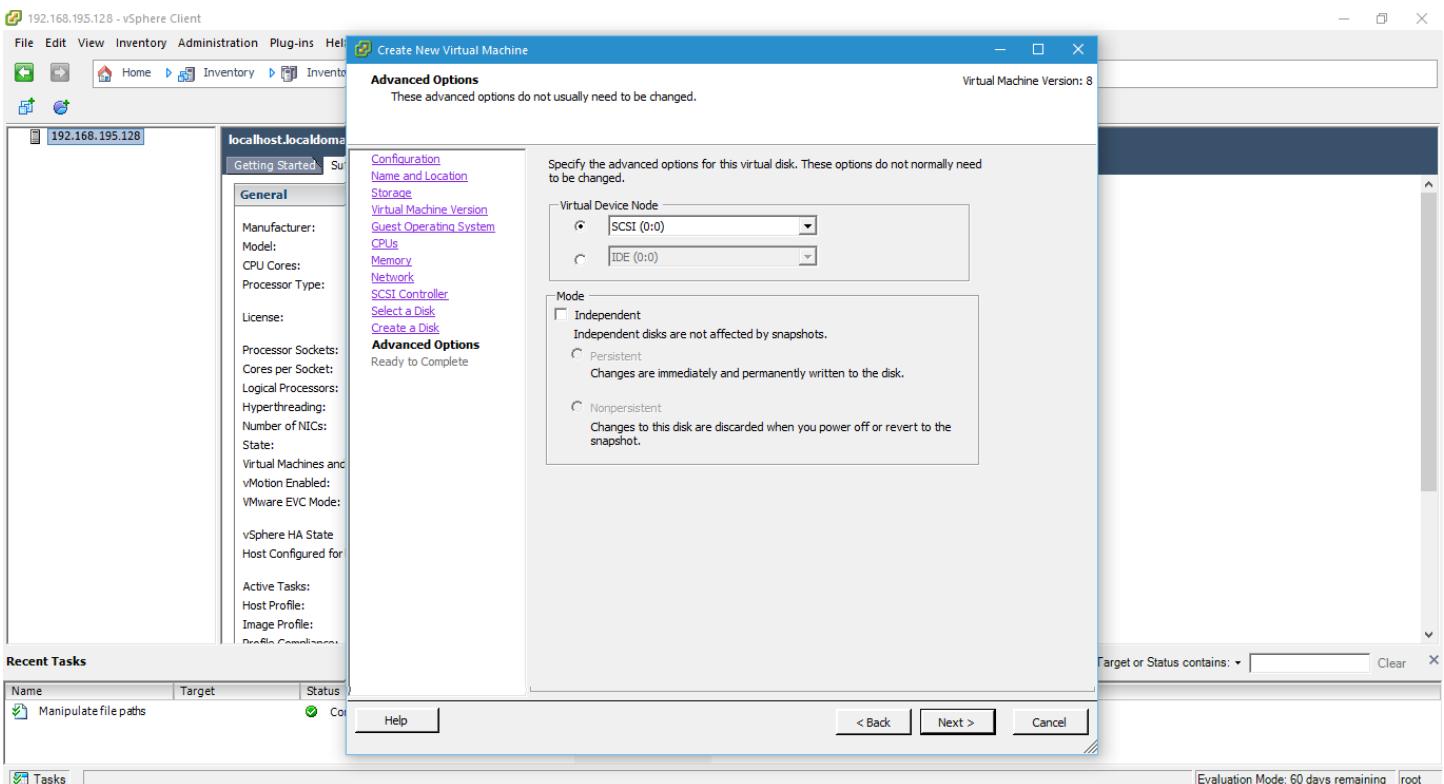
Then in the next popup windows give the operating systems configurations as following images.

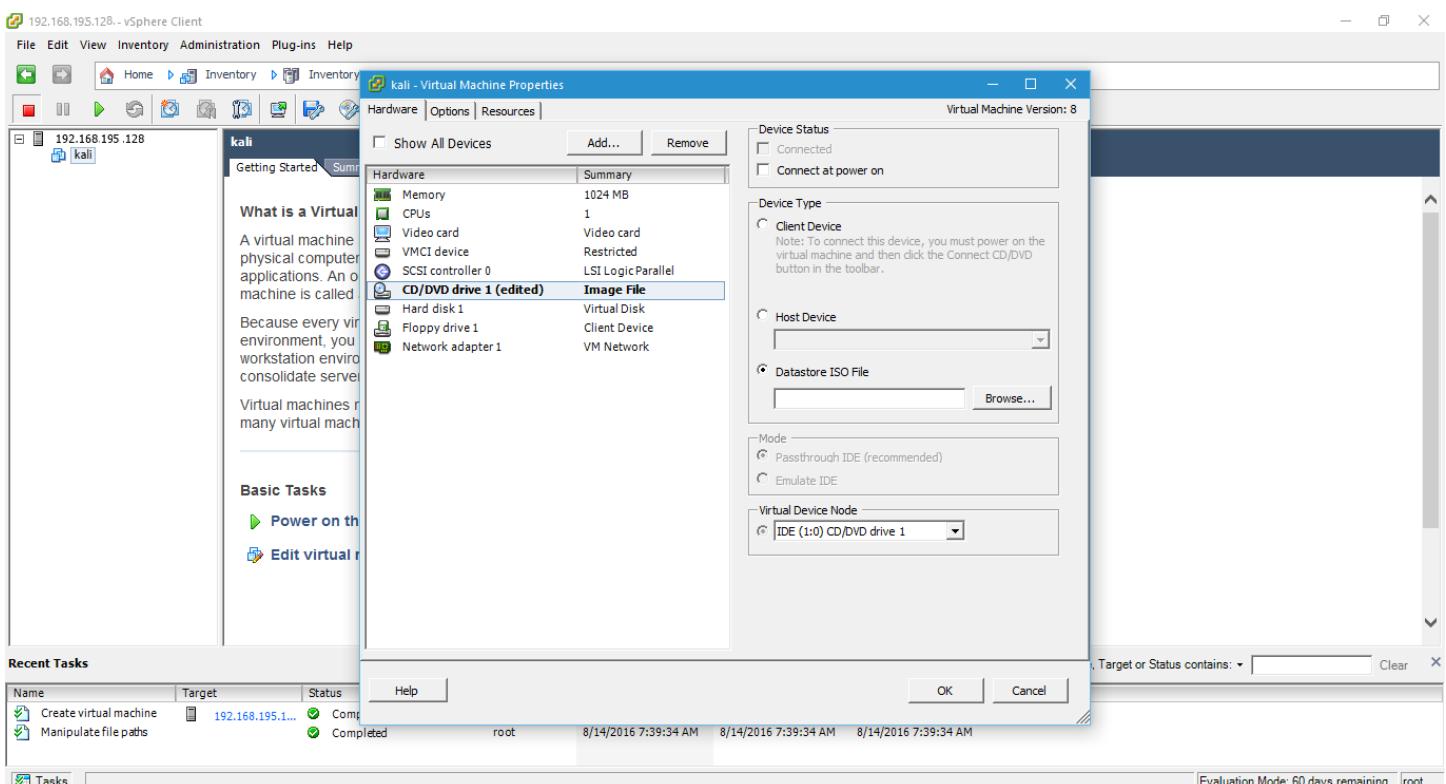
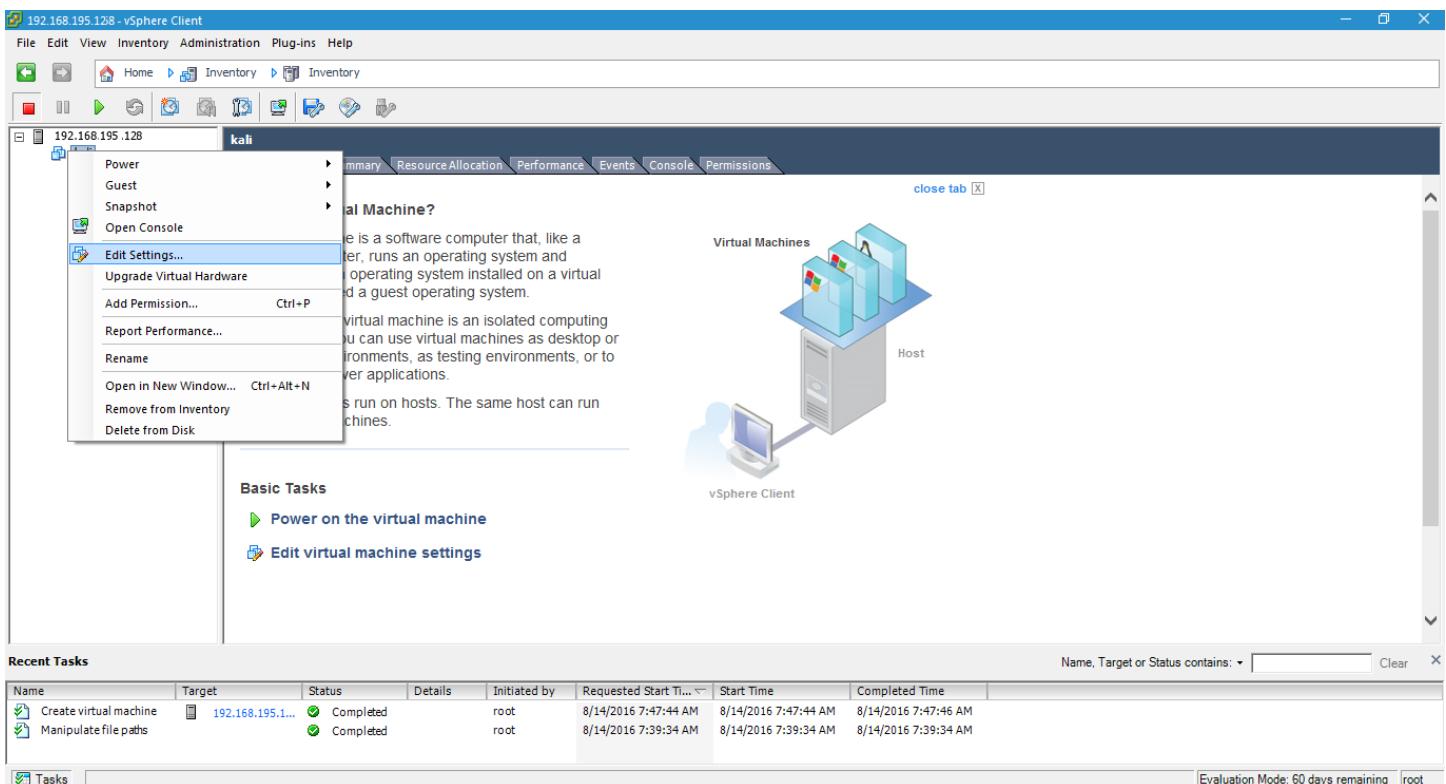


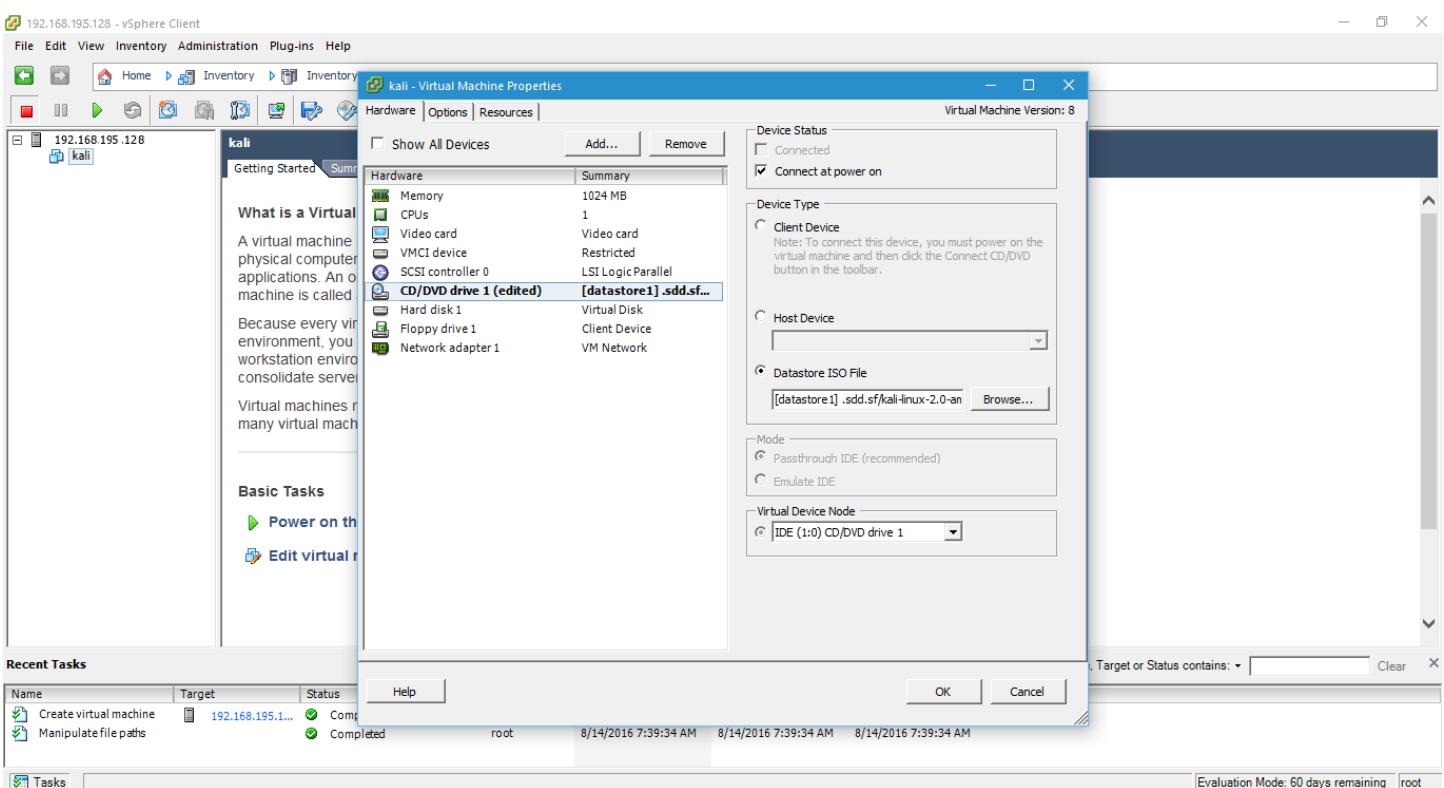
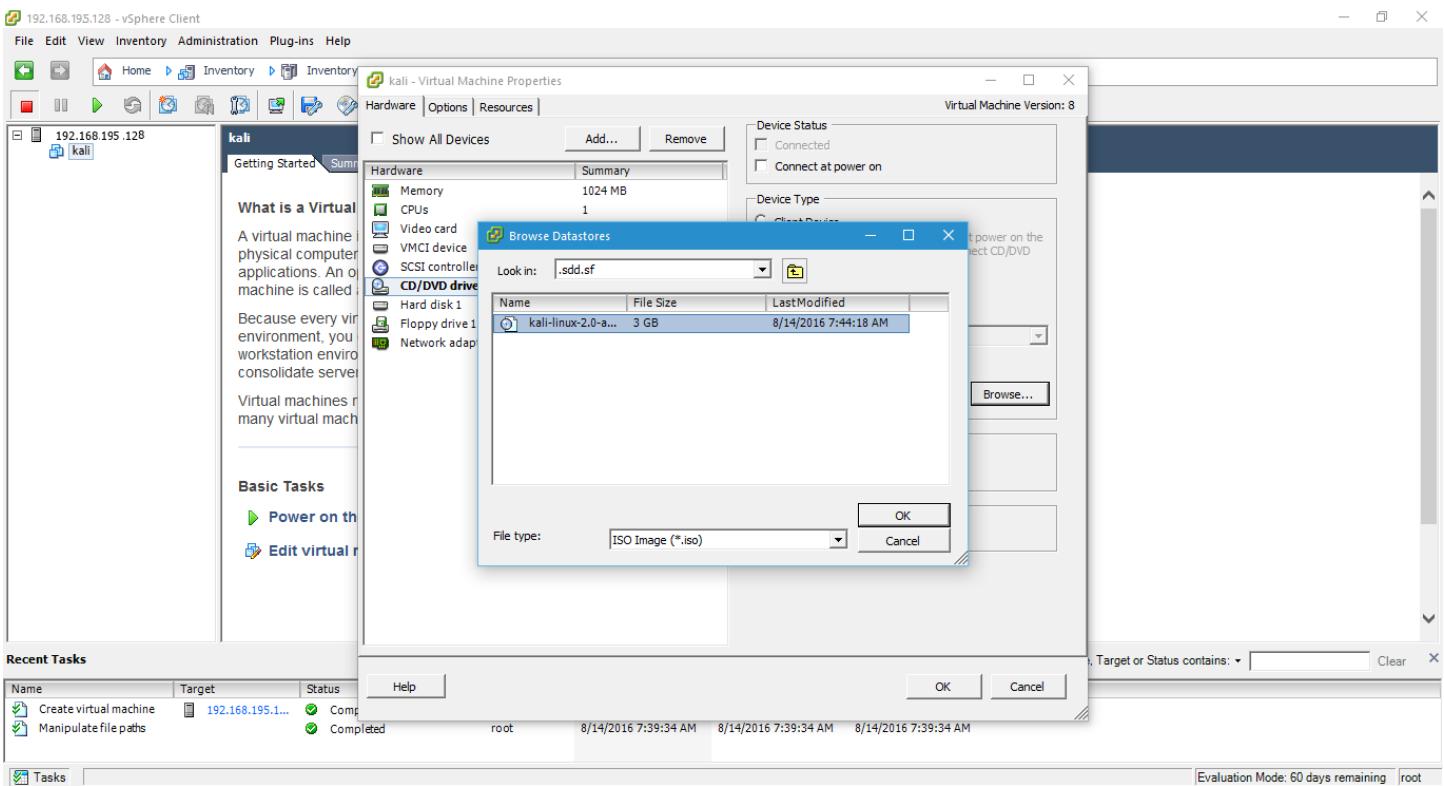












After doing all the configurations successfully, you can power on the new virtual machine with kali-Linux OS.to do that follow the following instructions.

