

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

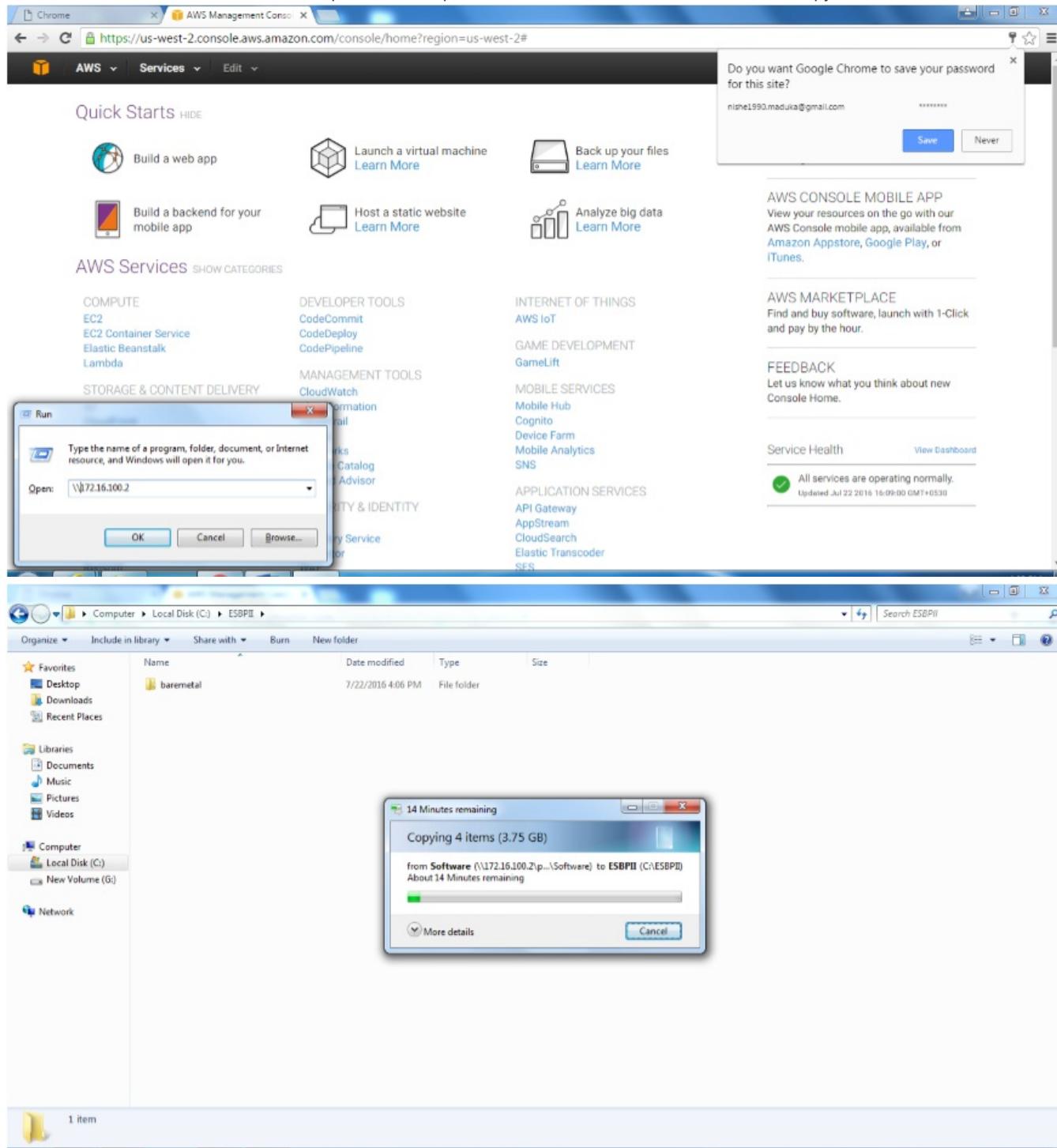
Bare-metal installation Summary Report

Name : T.G.Niroshika Madushani.

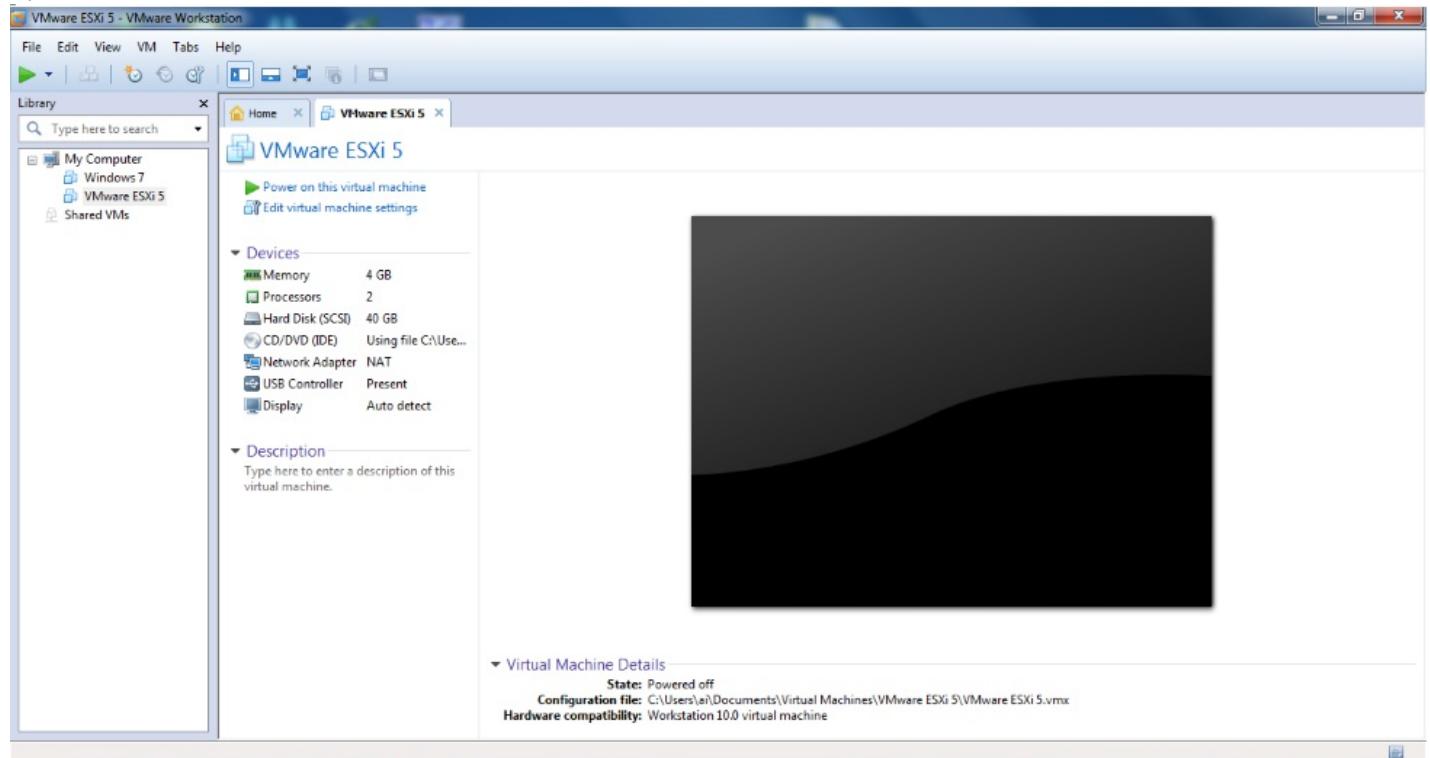
SLIIT ID : IT13025304

Practical Session: Weekend

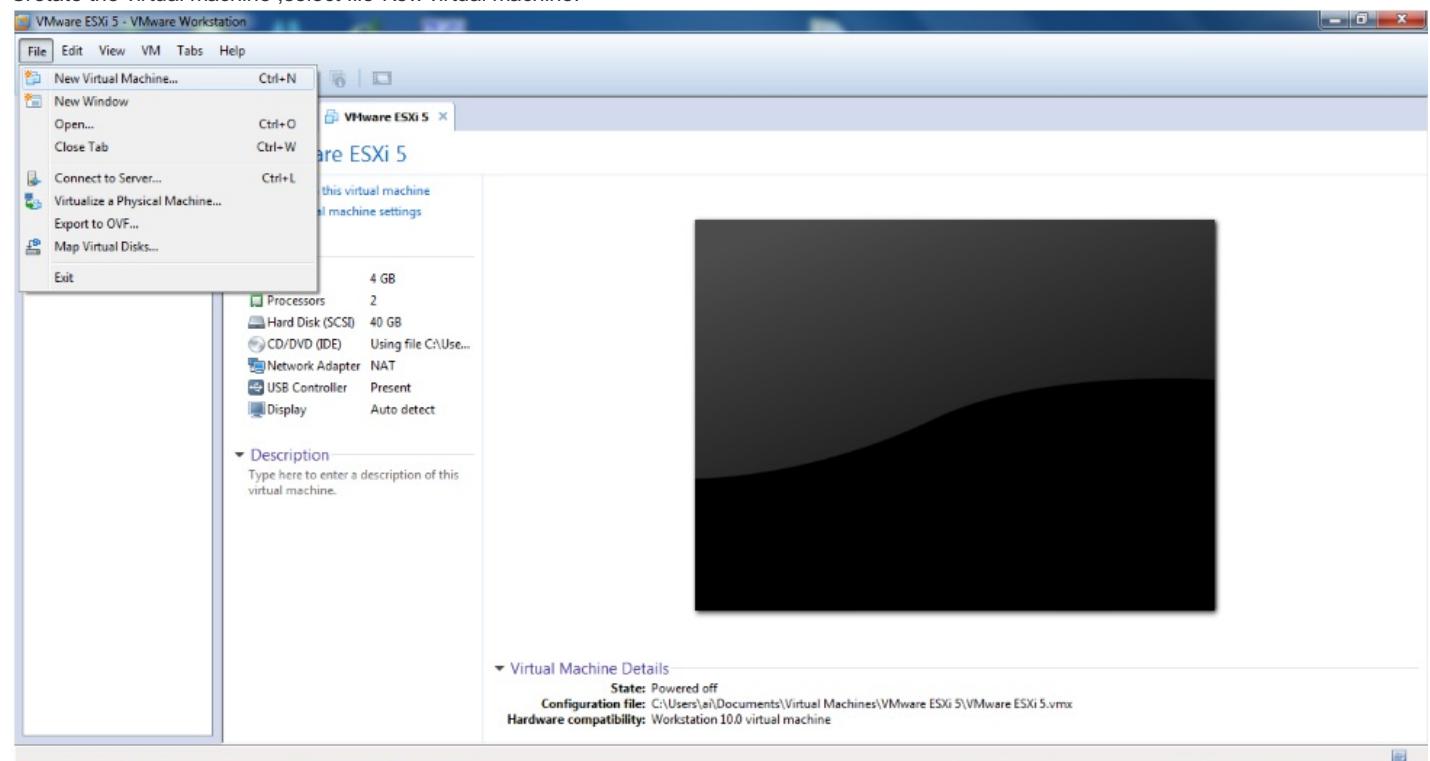
first we have to create new folder in desktop then access public drive and take bare metal software and copy that in to created folder.



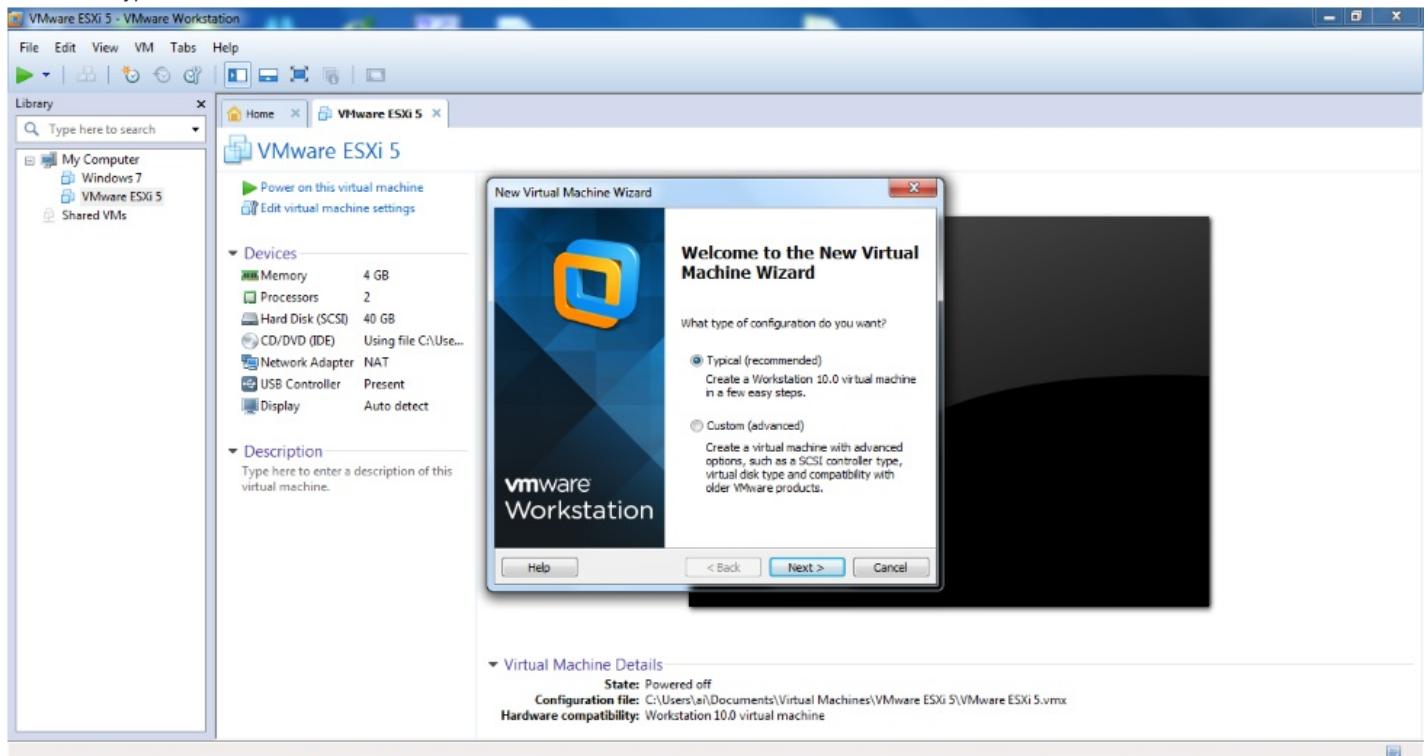
Open the VMware.



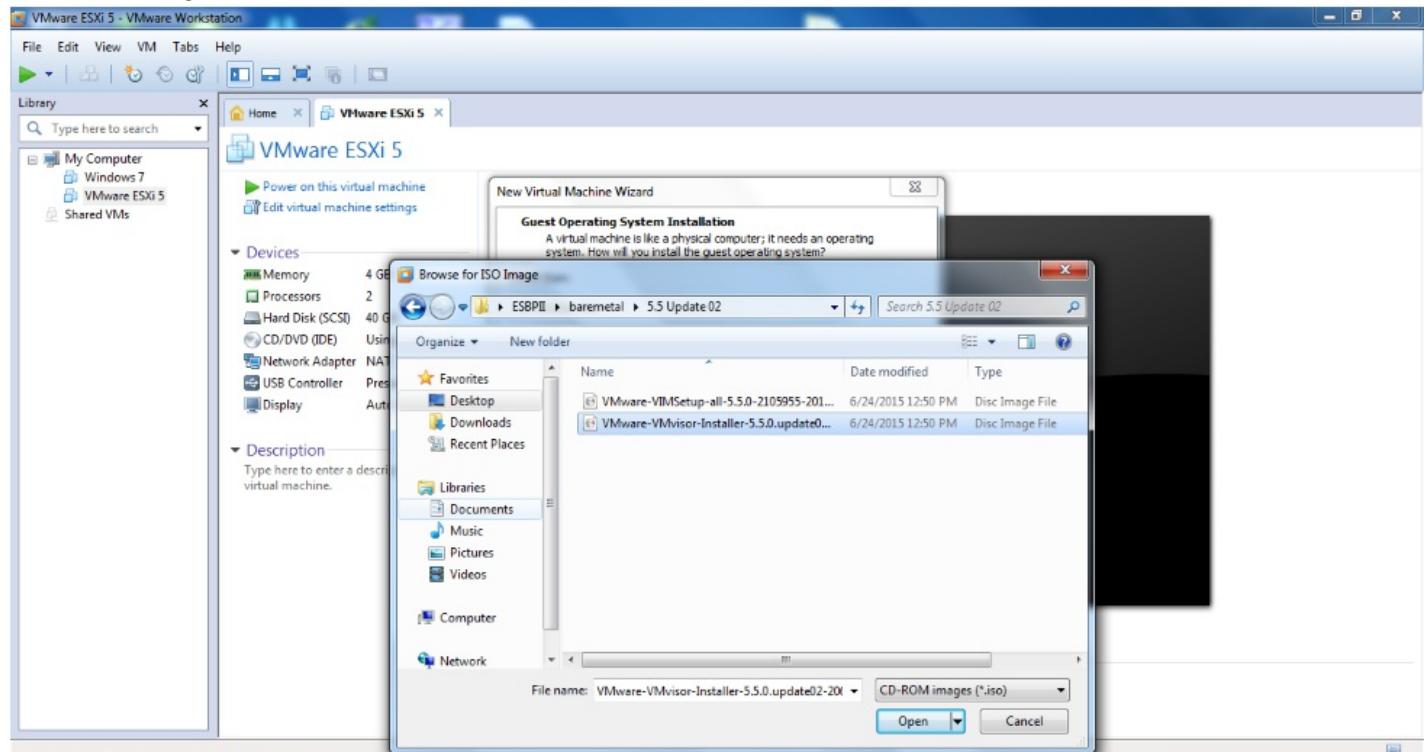
Create the virtual machine ,select file-New virtual machine.



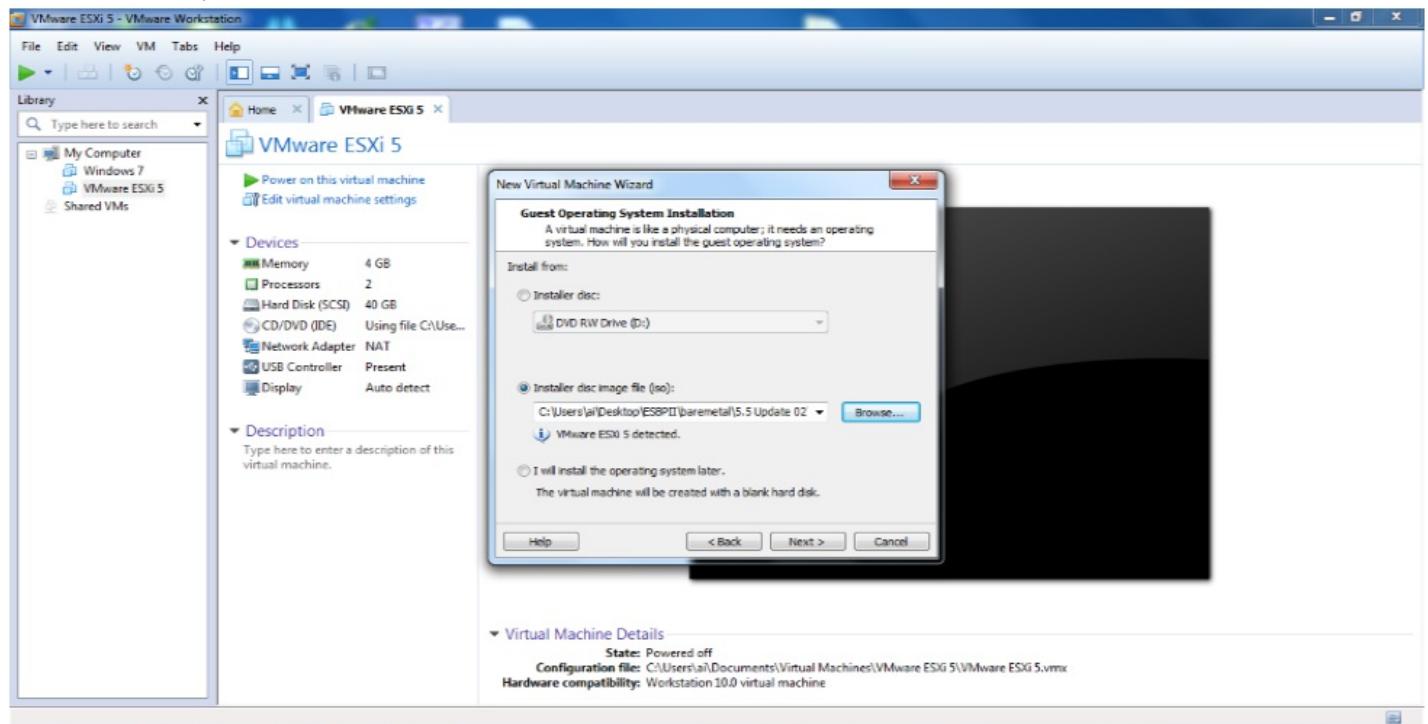
Select the Typical and then click next.



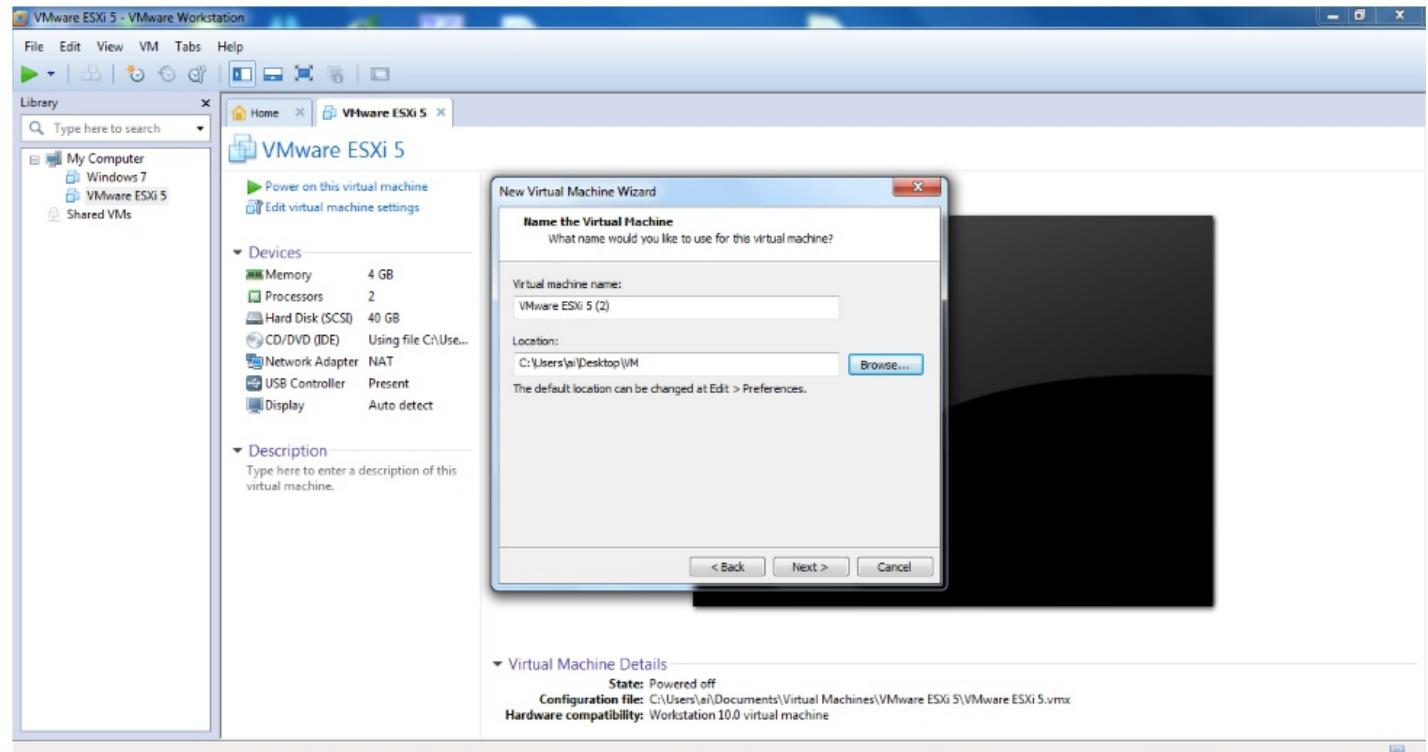
Brows the ISO image.



Choose the ISO file path.

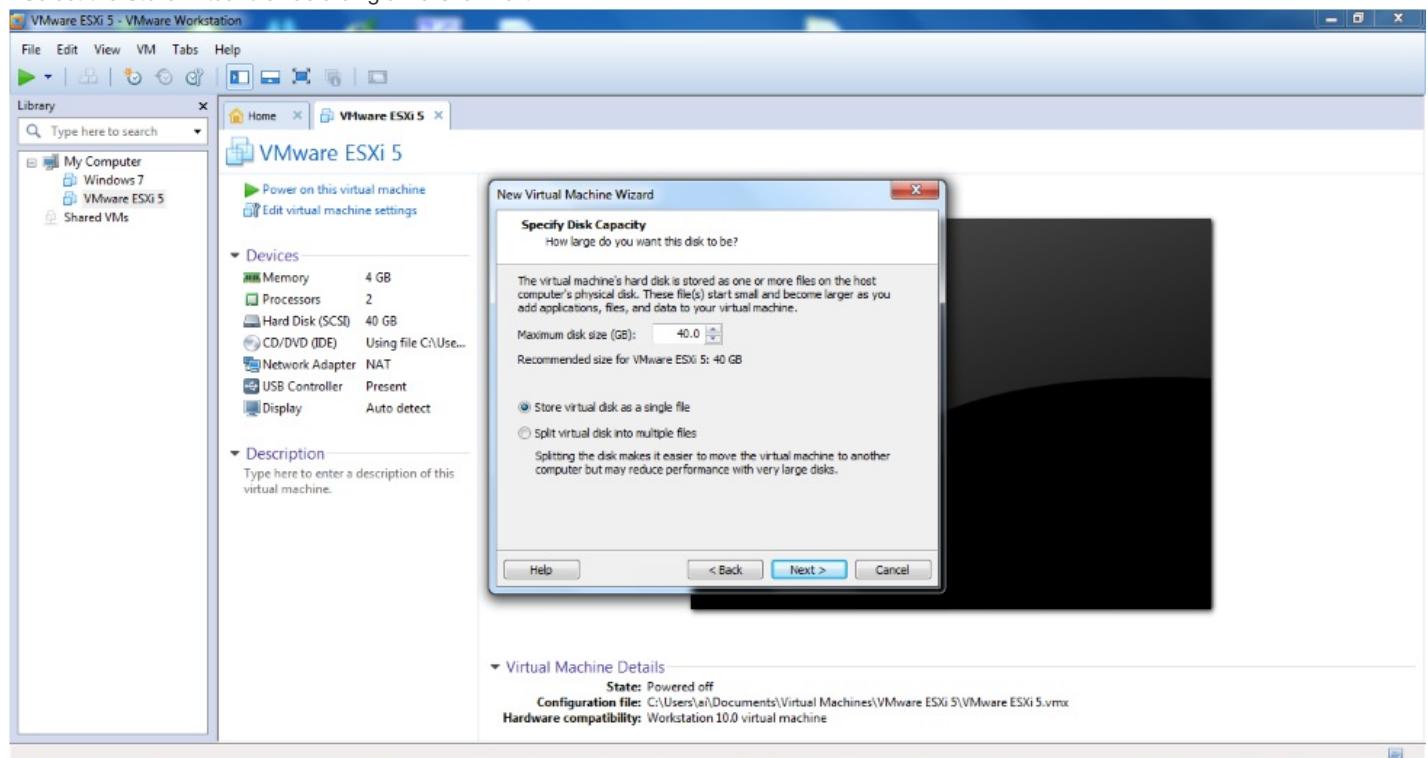


Set these values, Virtual machine name and location for new virtual machine.

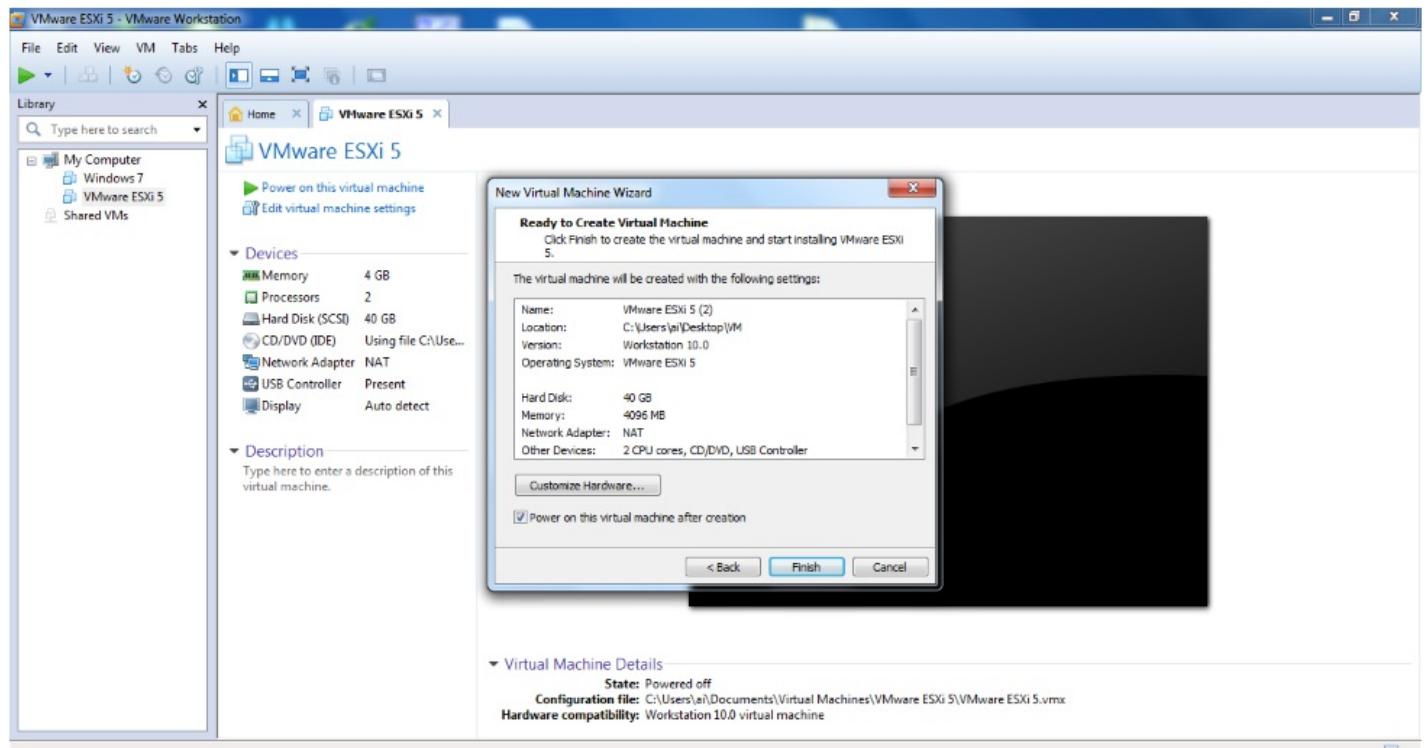


Configure the following settings:

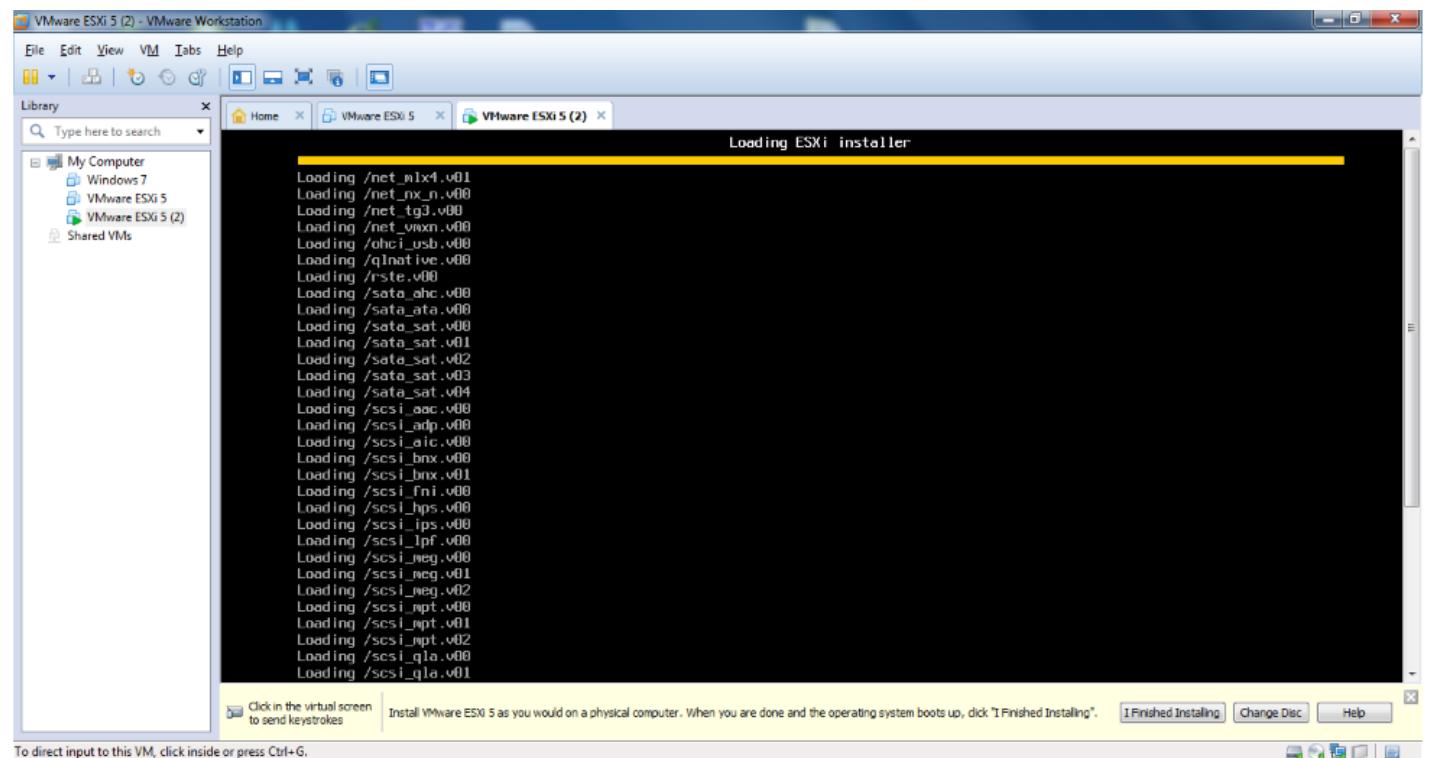
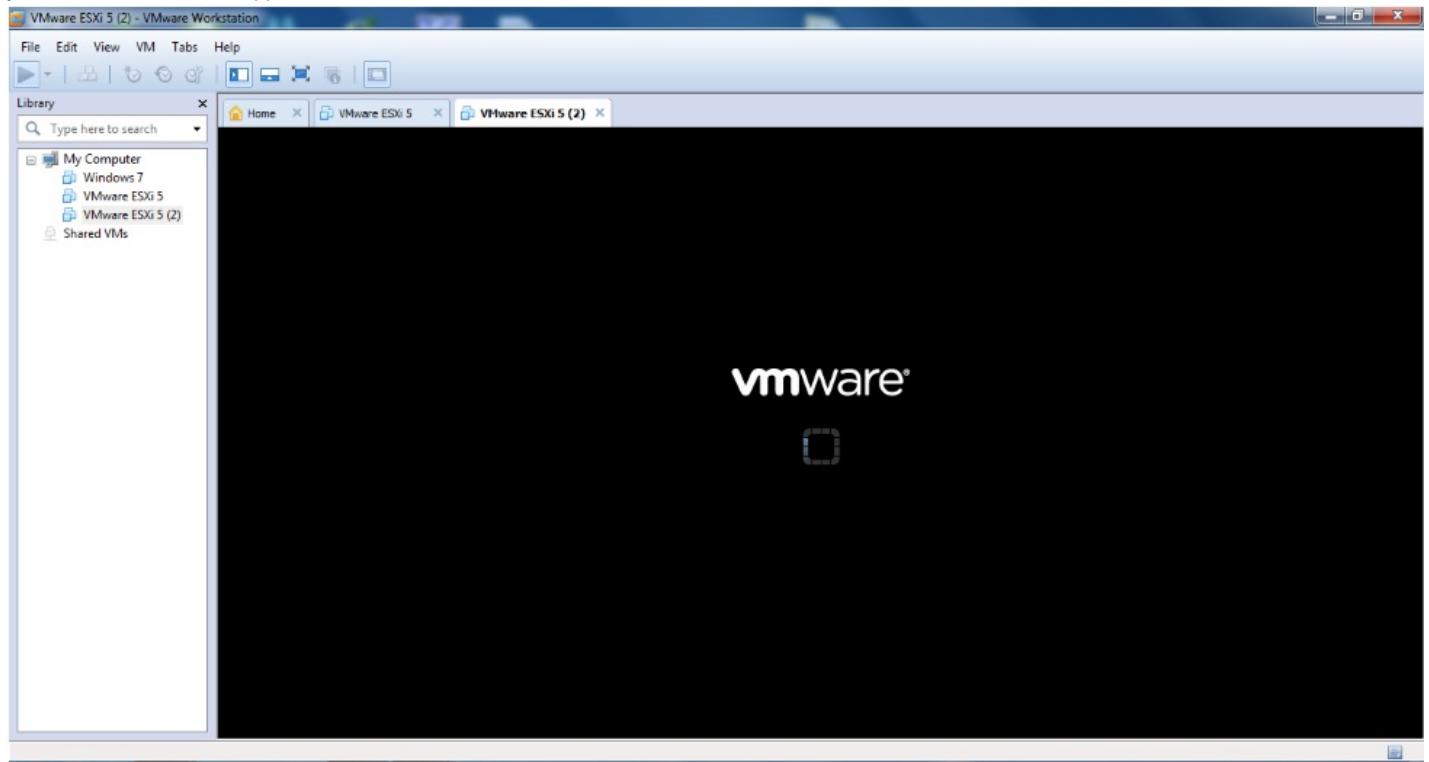
- Maximum disk size: 40
- Select the Store virtual disk as a single file Click Next.

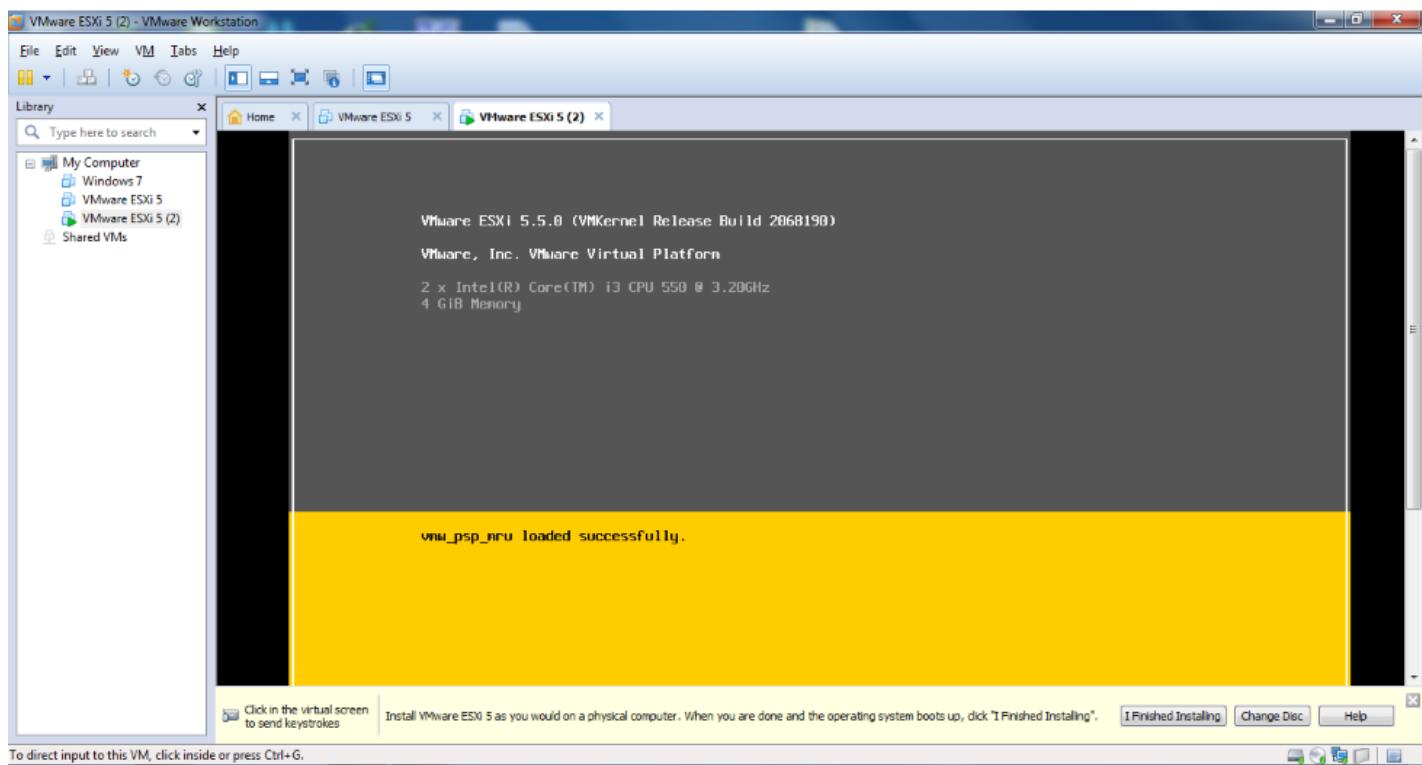


Click finish button.

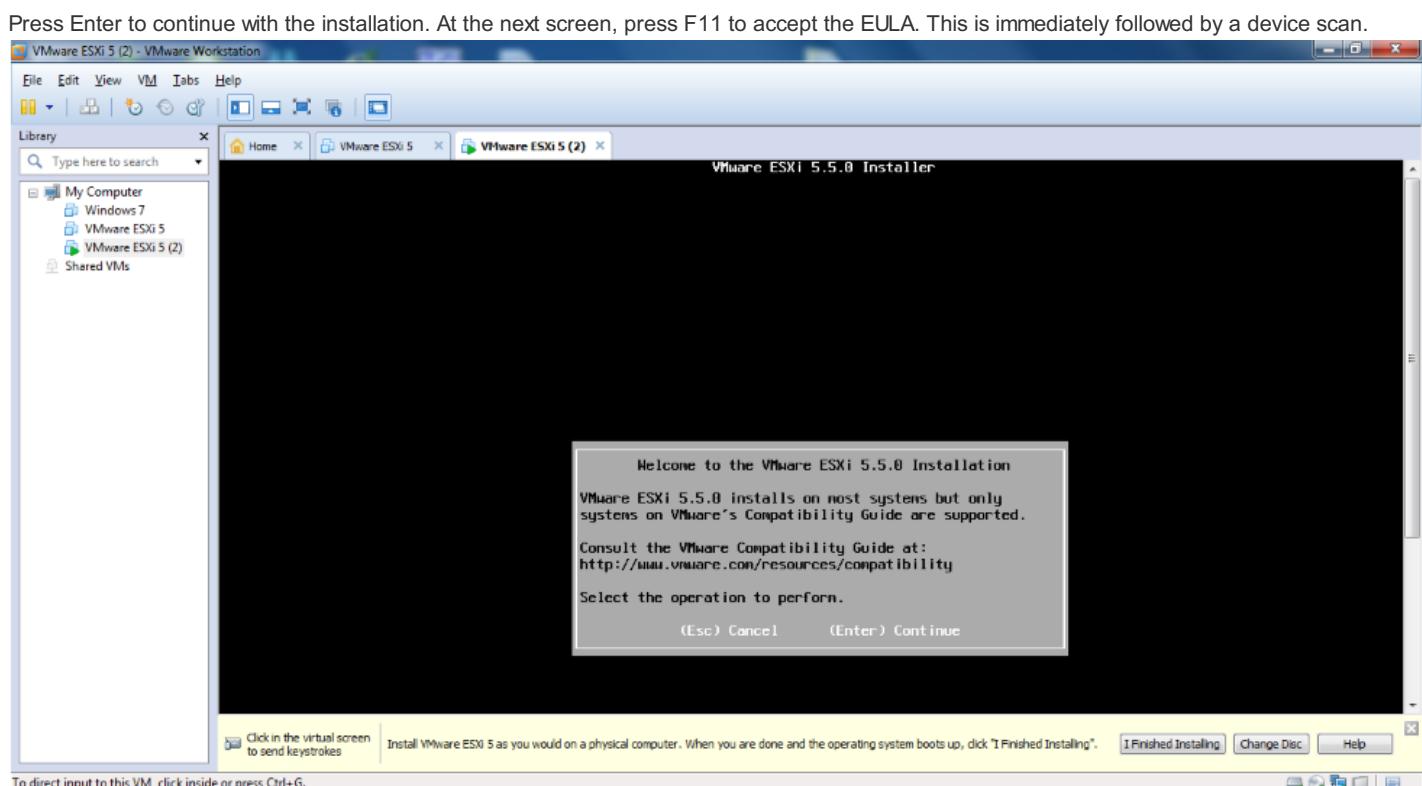


your virtual machine will appear.

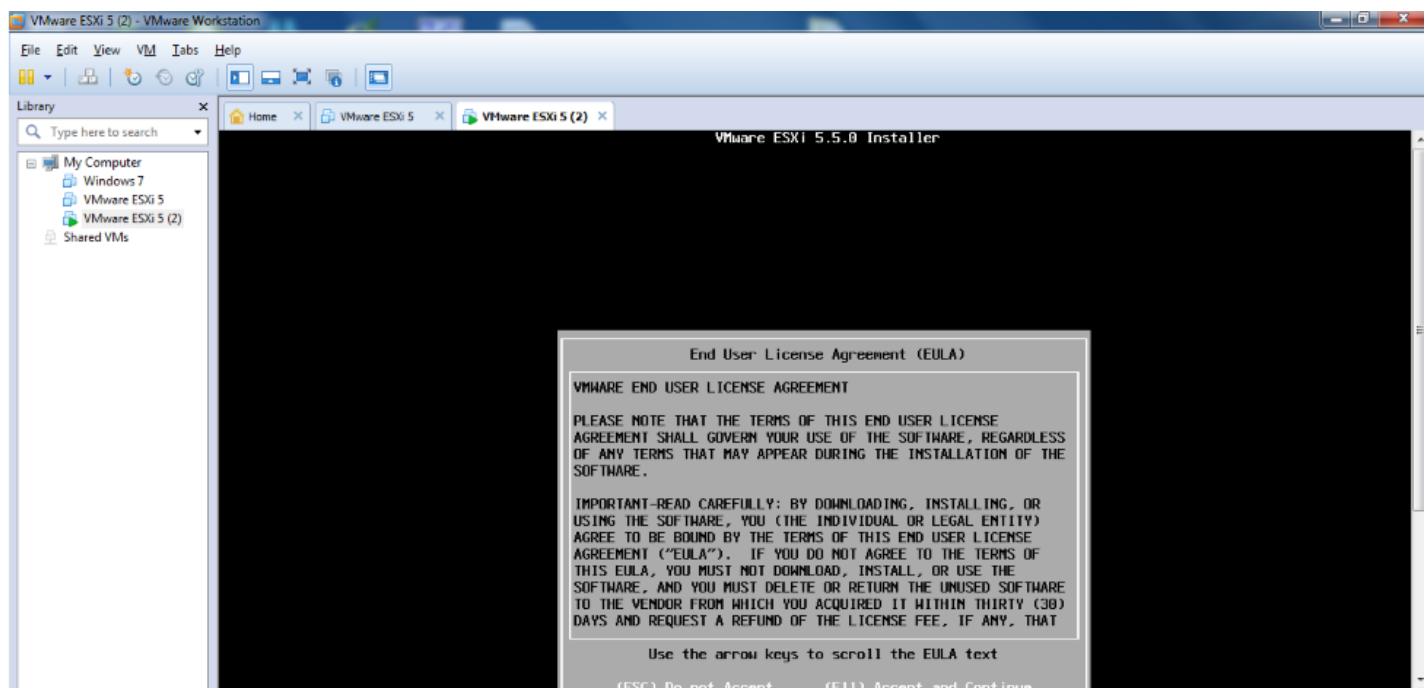




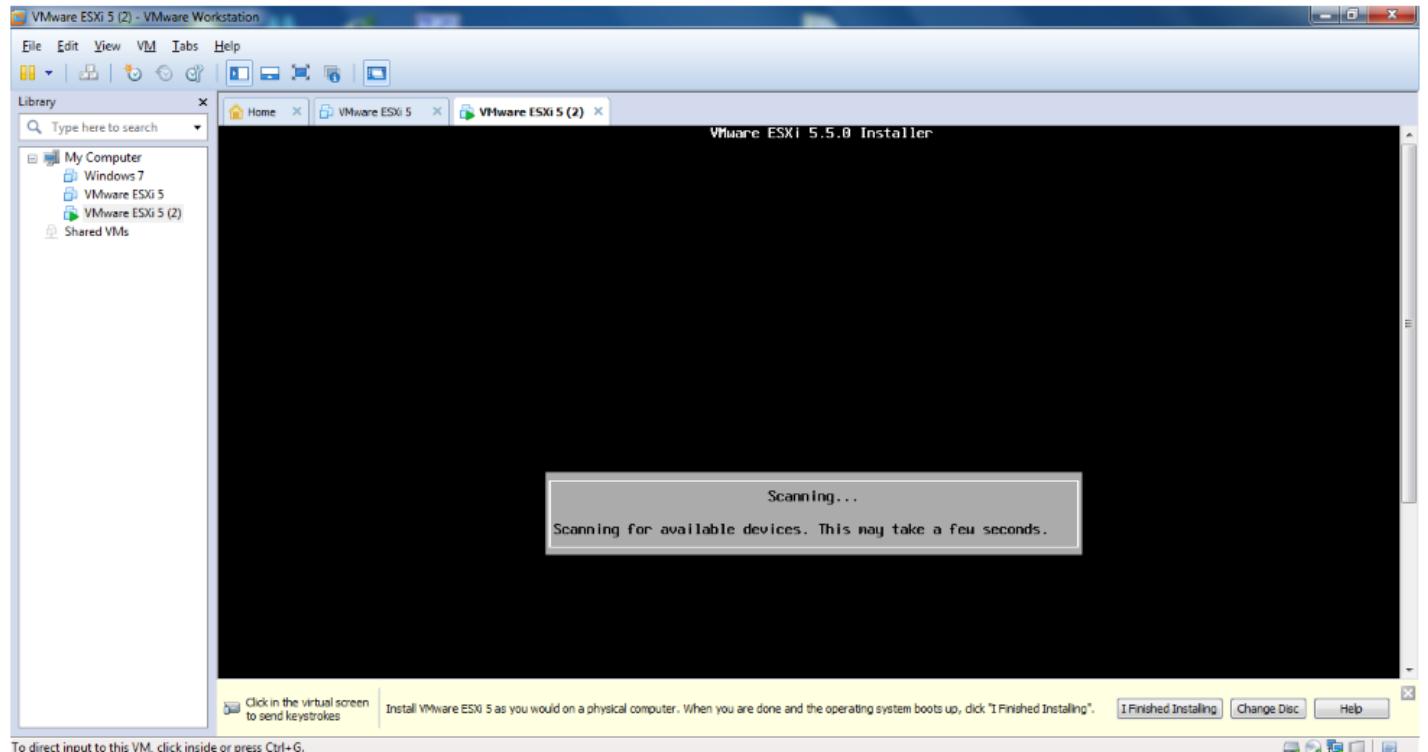
To direct input to this VM, click inside or press Ctrl+G.



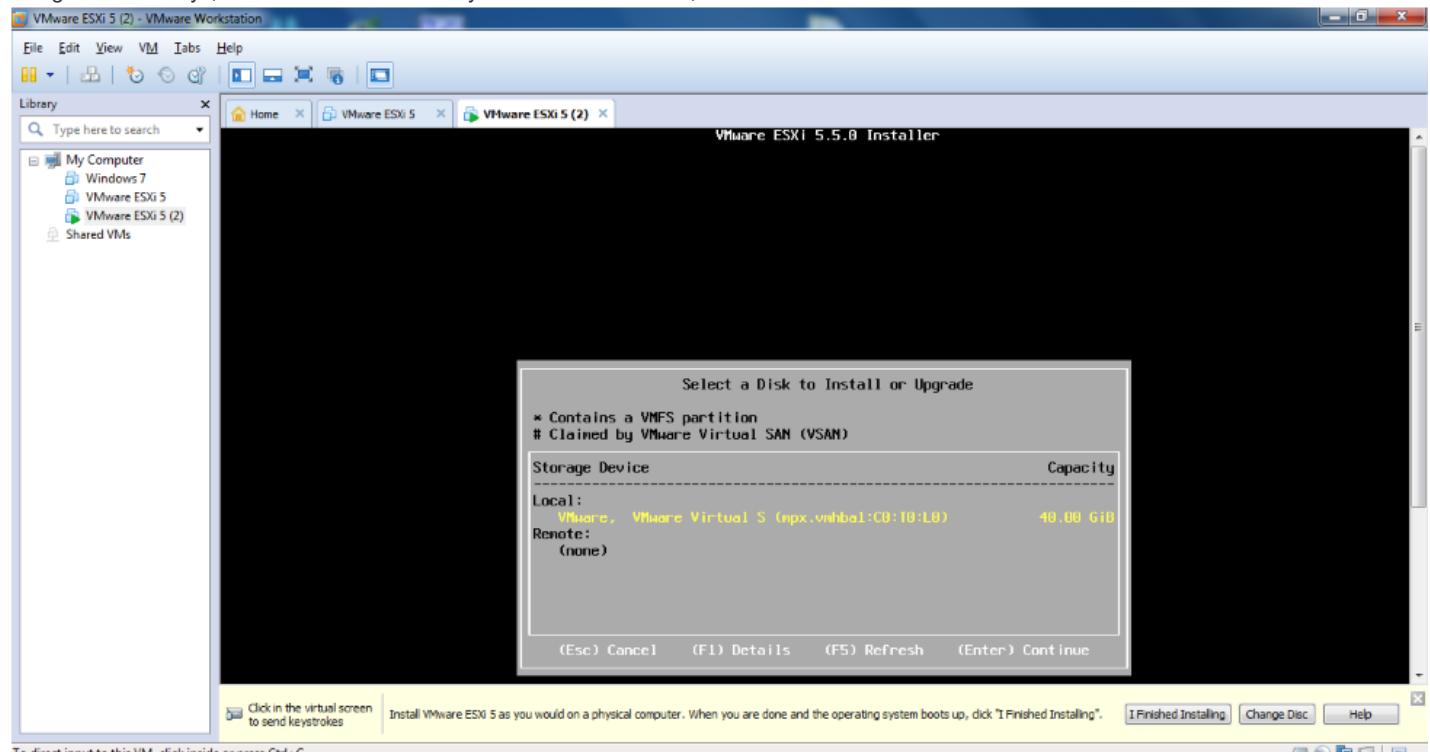
To direct input to this VM, click inside or press Ctrl+G.



Then it will scan for available device.

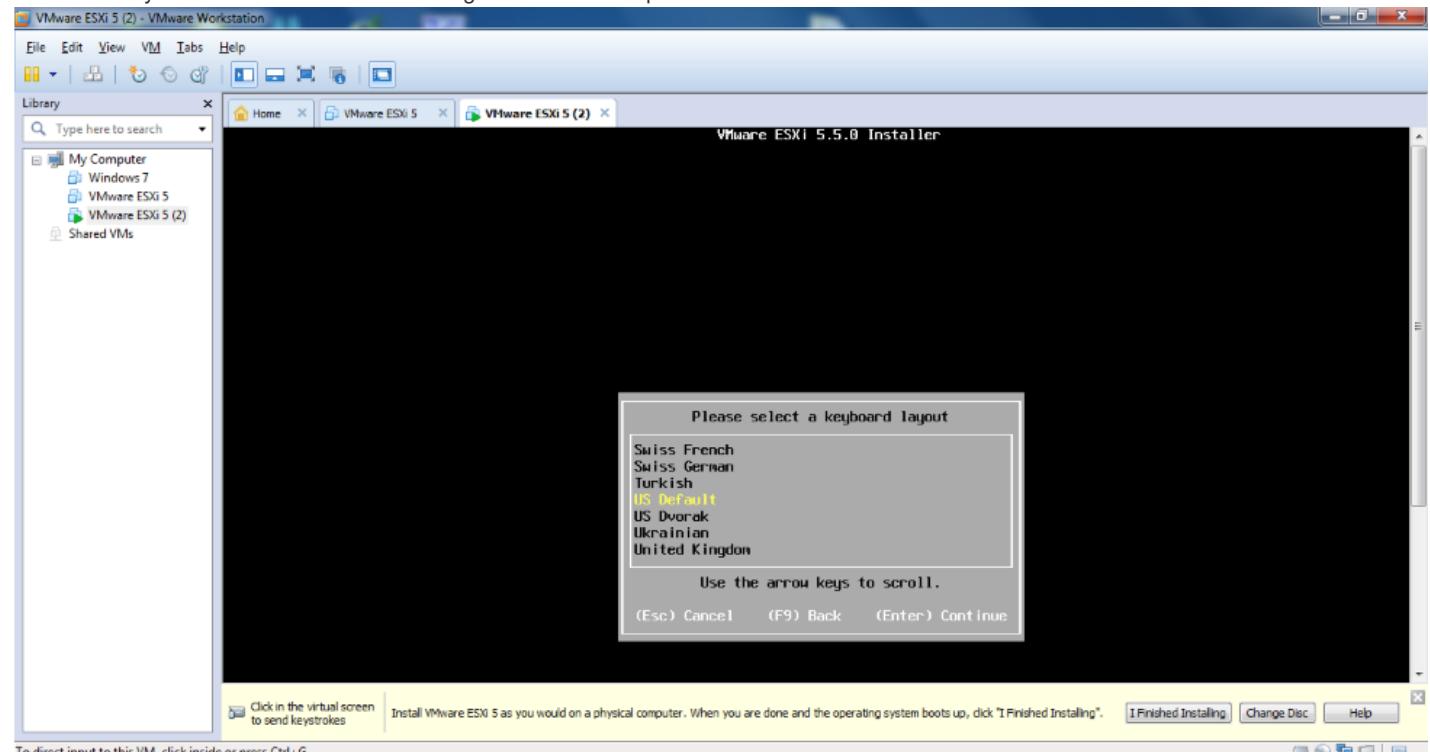


Using the arrow keys, select the drive on which you want ESXi installed, Press Enter.



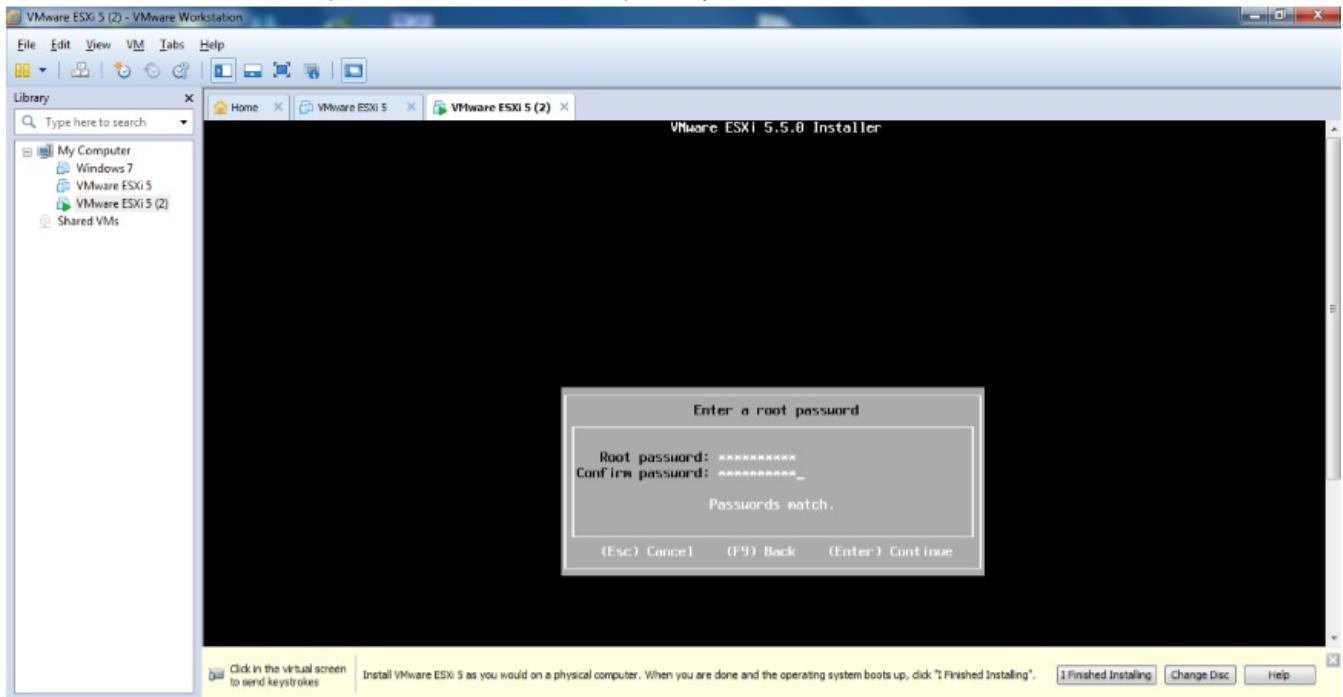
To direct input to this VM, click inside or press Ctrl+G.

The default layout us set to "US Default". Change as needed and press Enter to continue.

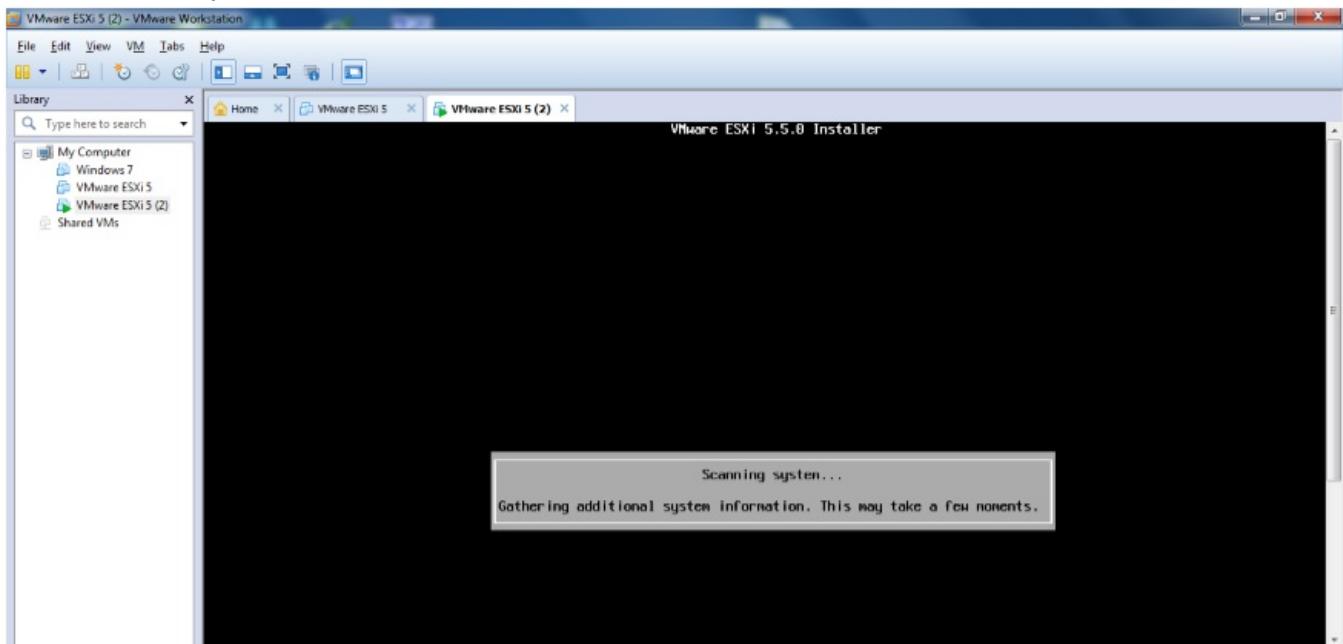


To direct input to this VM, click inside or press Ctrl+G.

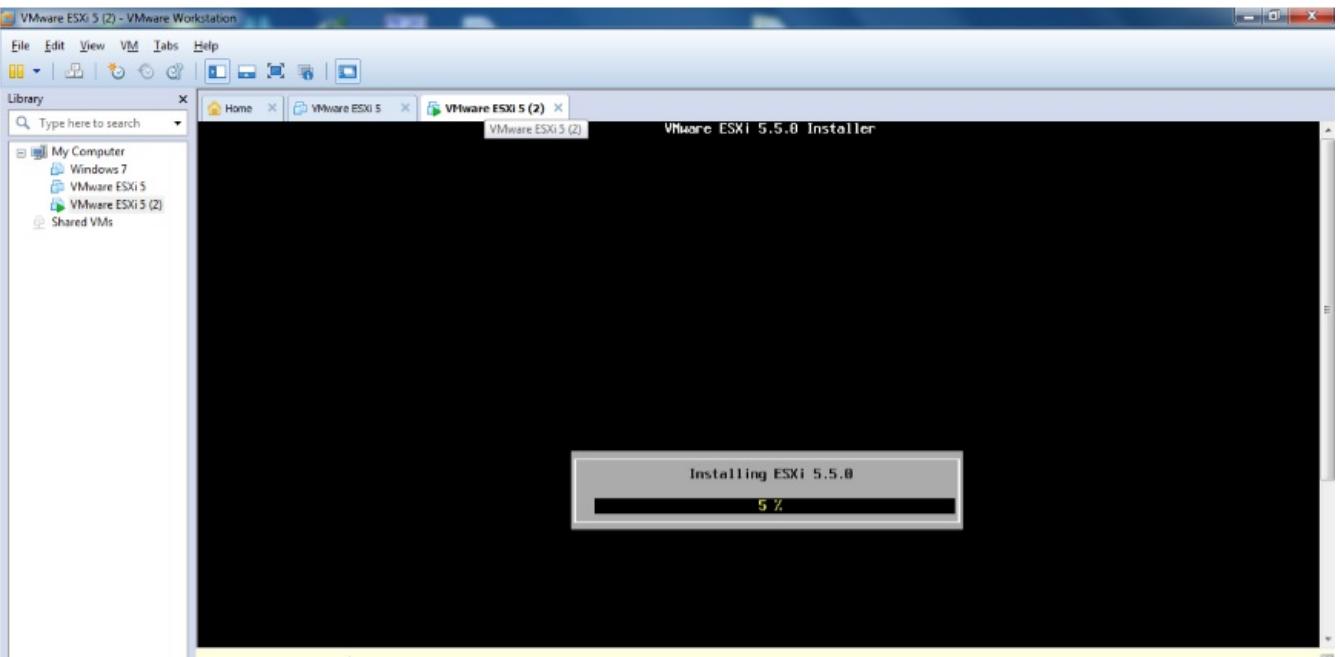
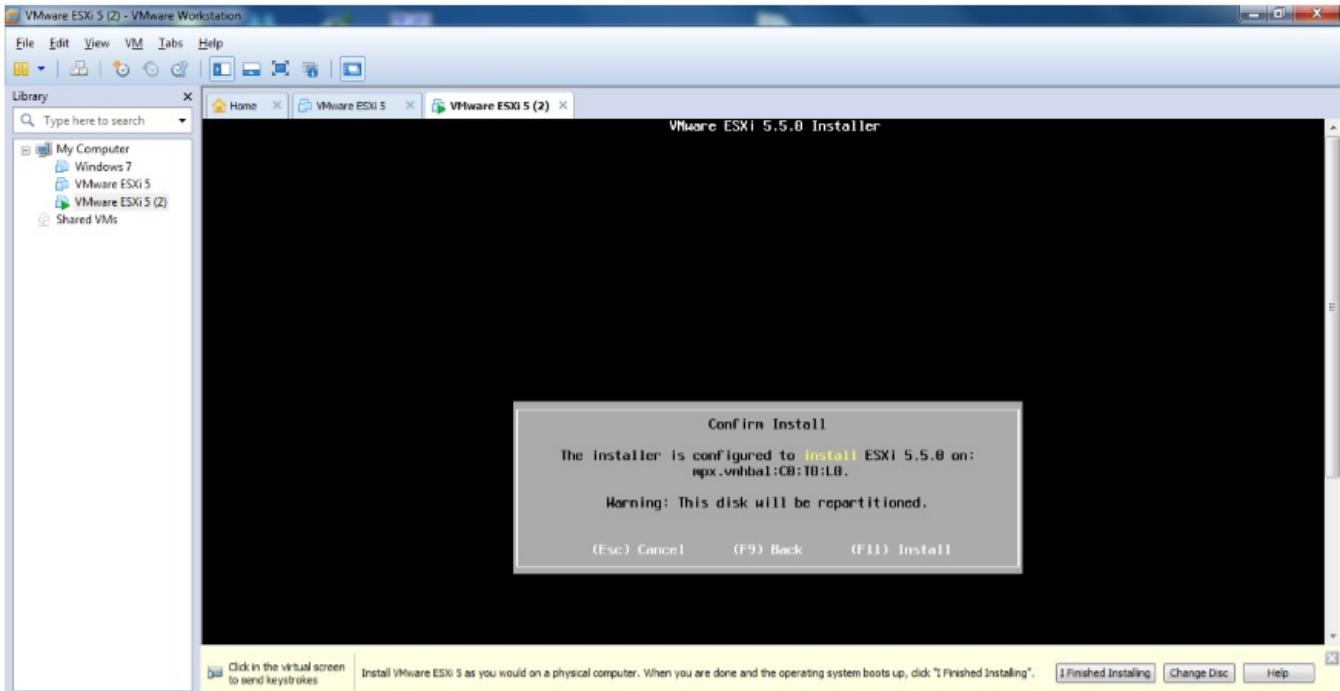
Time to create the root account's password. Press Enter to accept once you do.



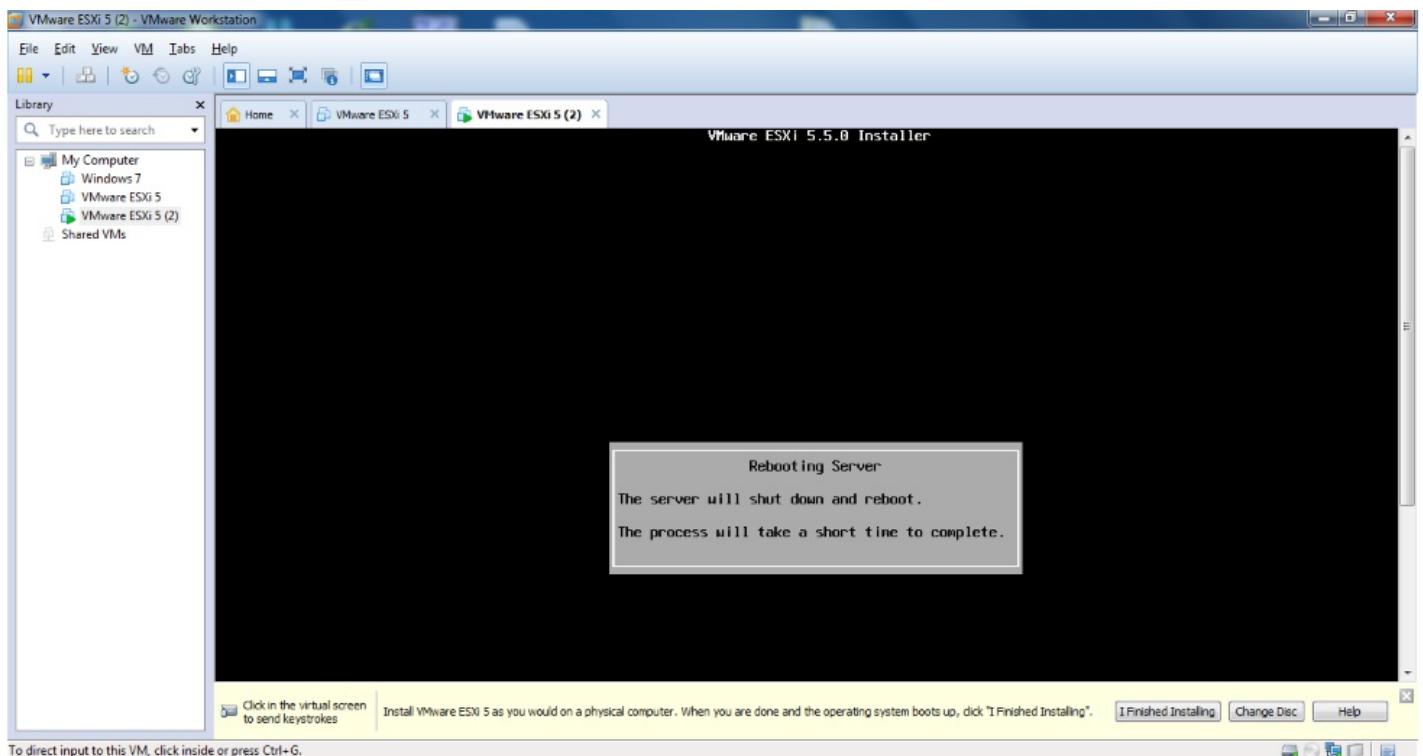
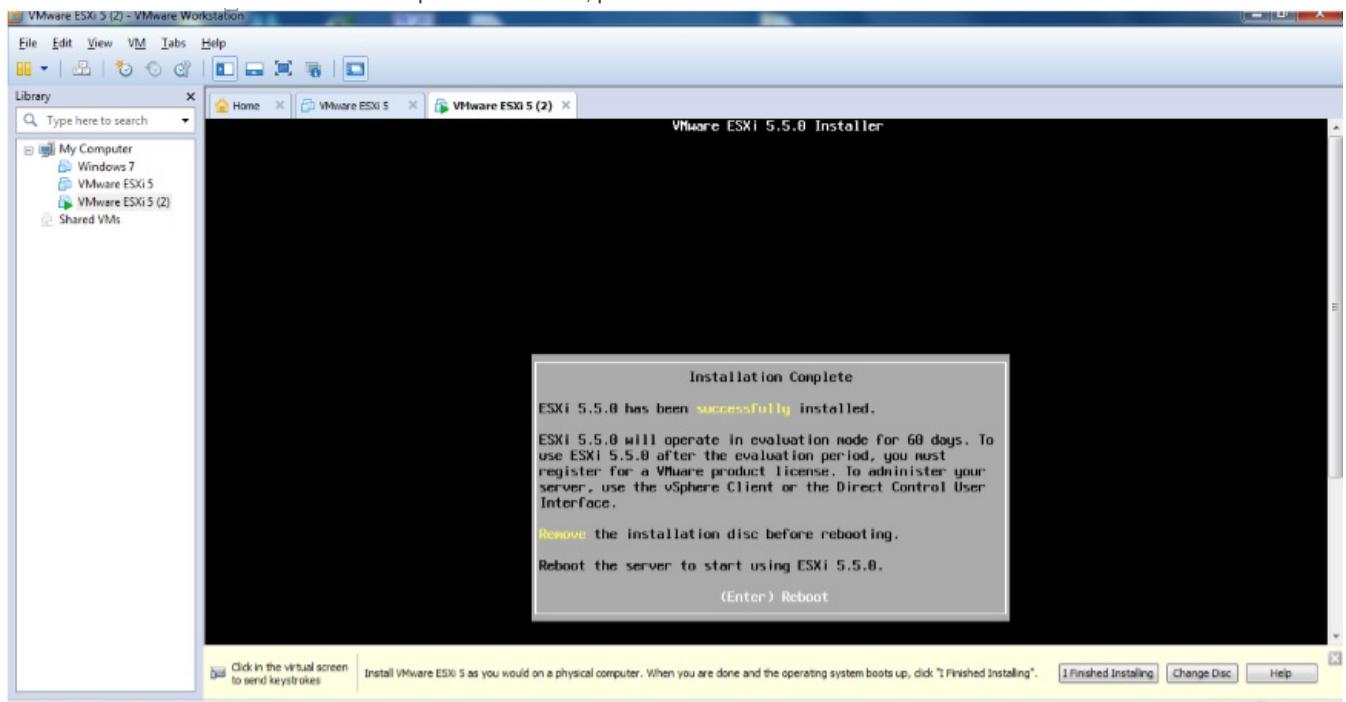
Then it will scan the system.

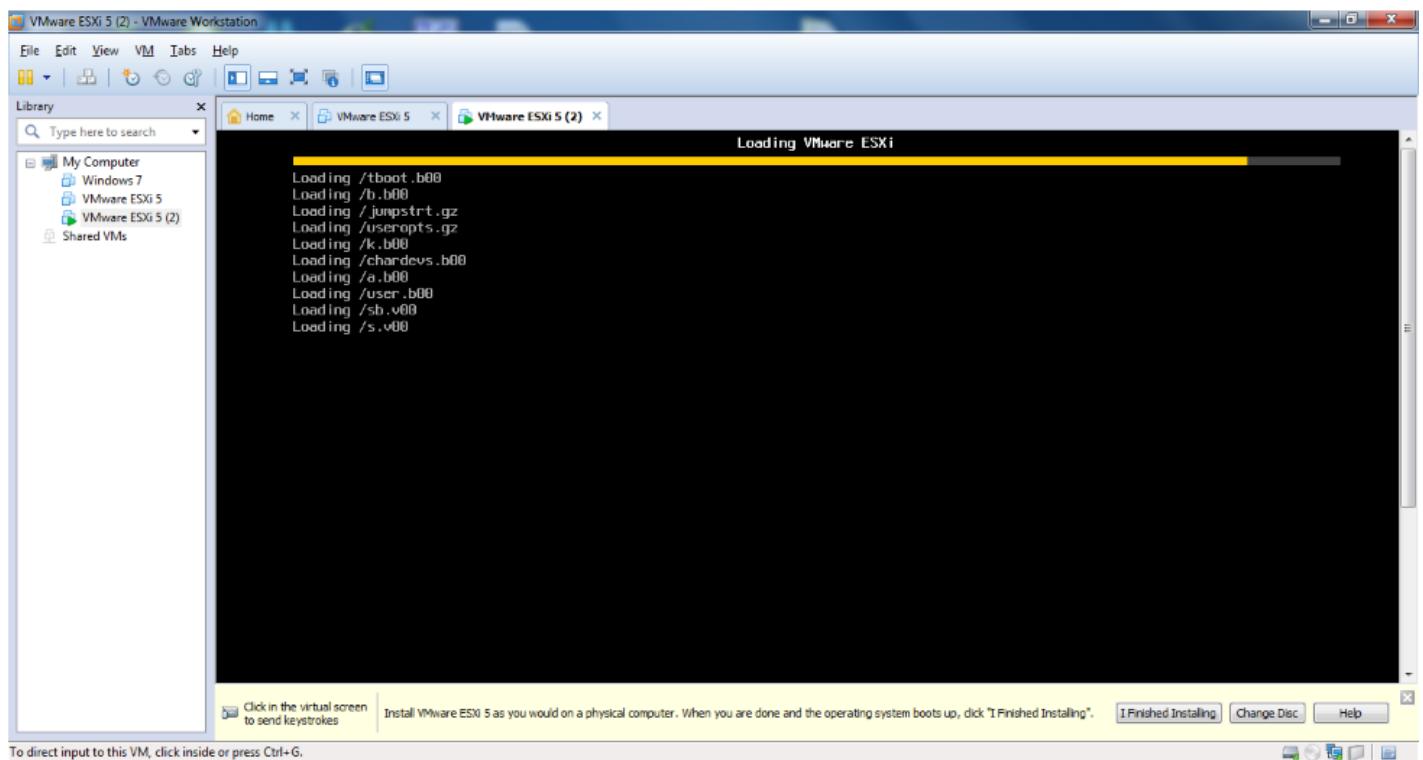


Pressing F11 confirms your disk selection. If ESXi is already installed, you'll be prompted to either upgrade the current version or preserve it.

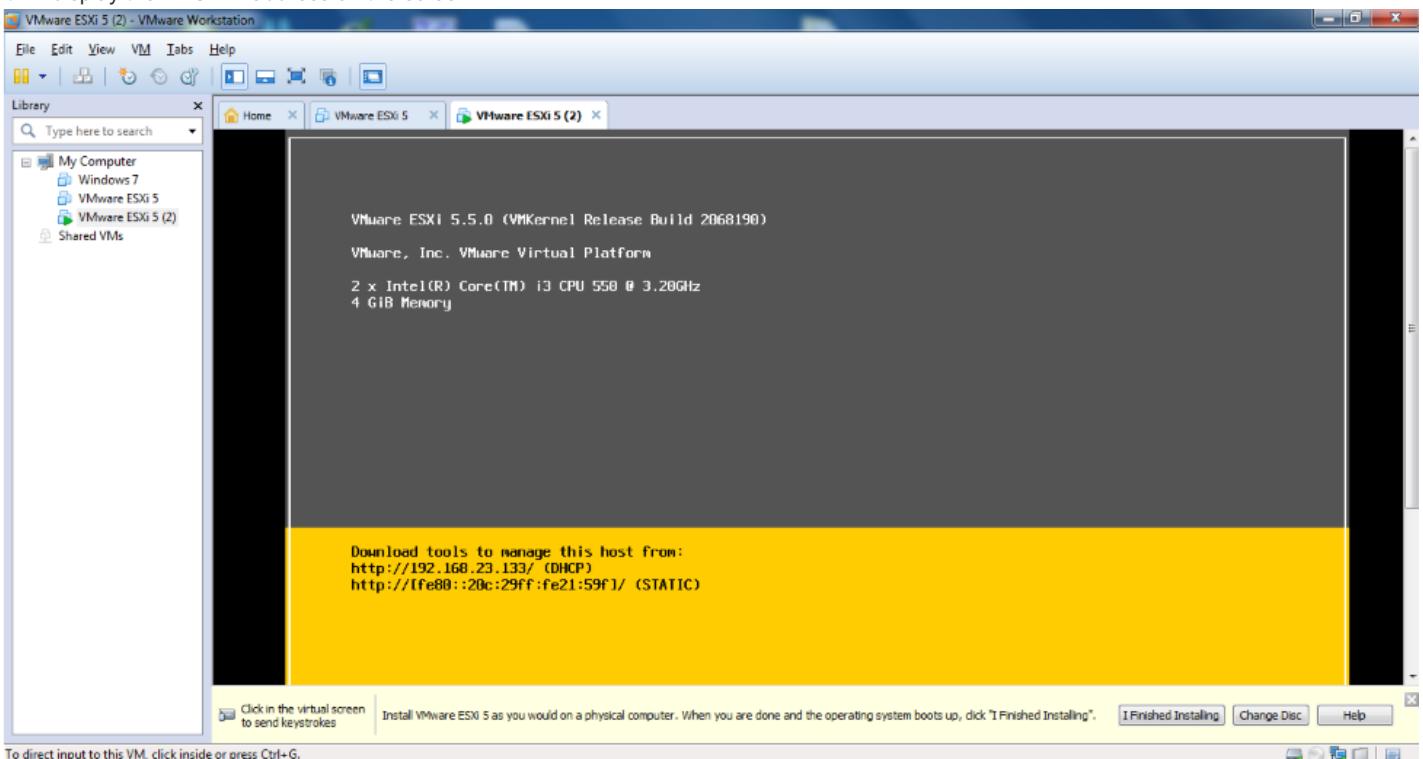


The installation takes a few minutes to complete. Once done, press Enter to reboot the server.

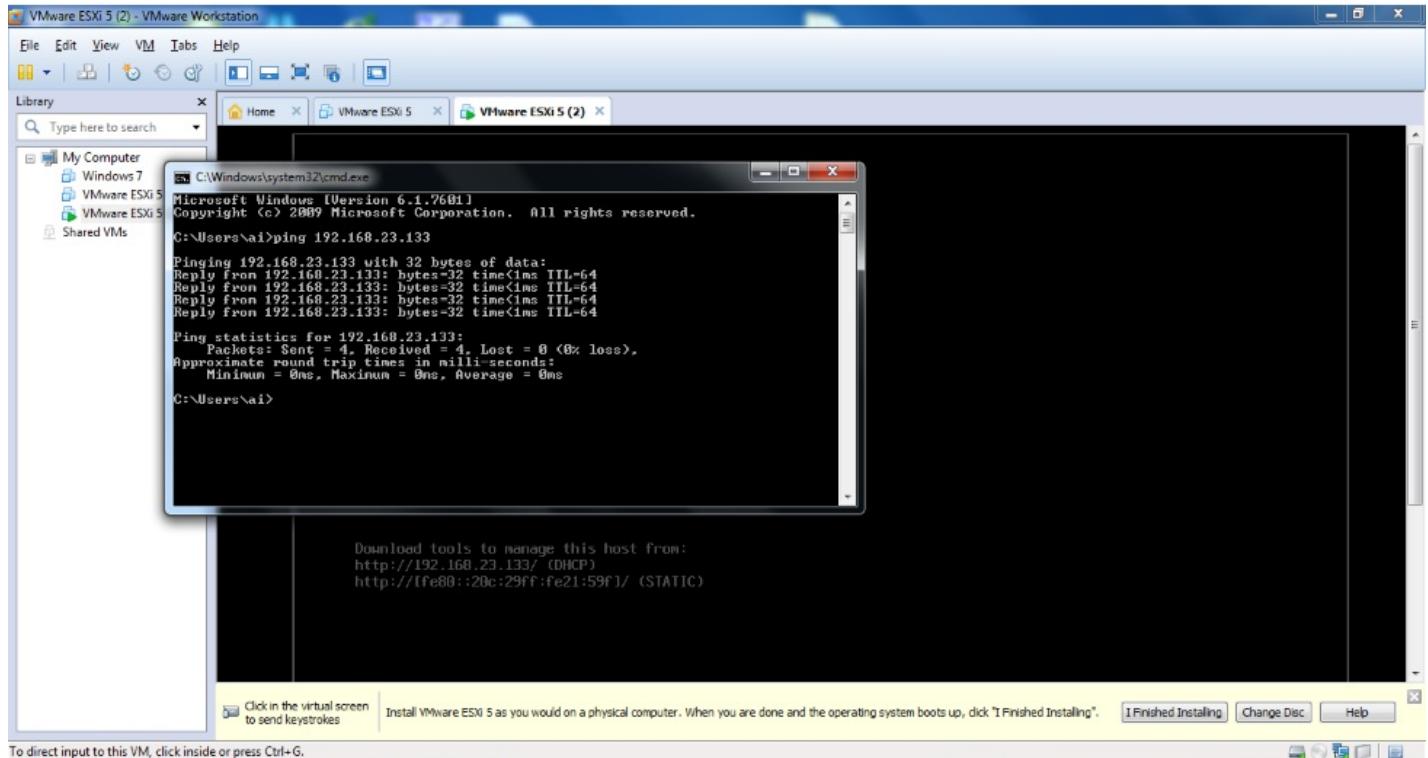




It will display the DHCP IP address on the screen.



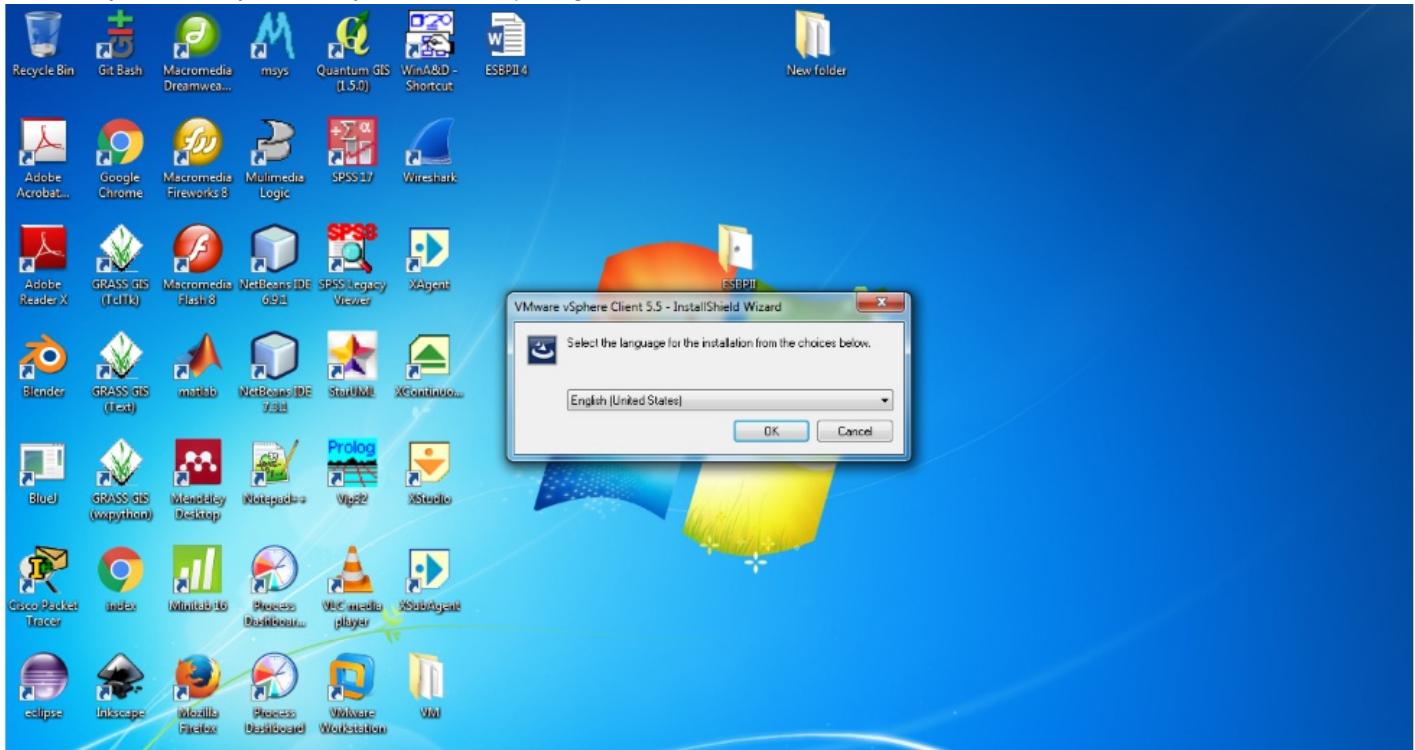
Open the command prompt and type ping 192.168.23.133.



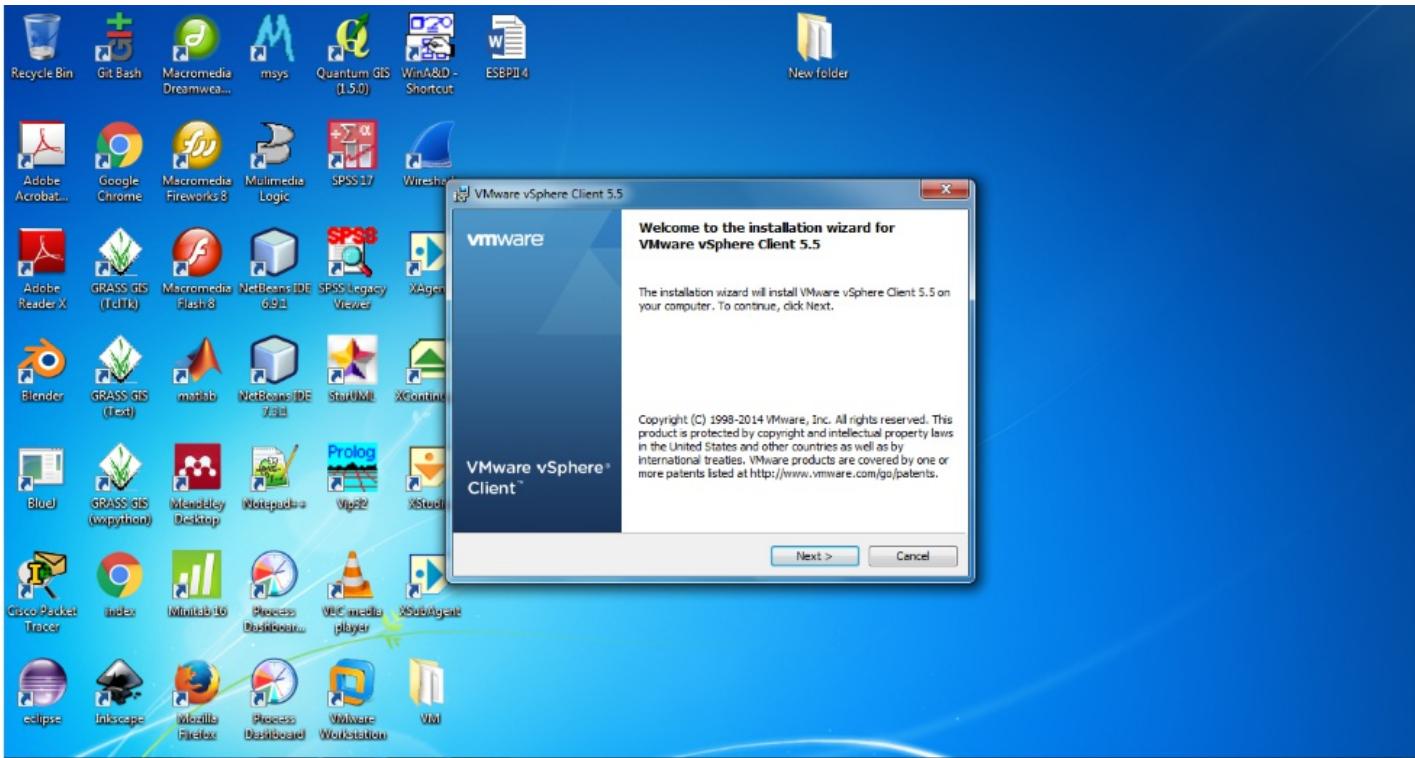
Now You need to install the vSphere client first. go to <https://192.168.23.133> and download vSphere client.

The screenshot shows a web browser displaying the "Welcome to VMware ESXi" page. The page includes sections for "Getting Started", "For Administrators" (with links to vSphere Remote Command Line, Web-Based Datastore Browser, and vSphere Web Services SDK), and "For Developers". At the bottom, there is a download progress bar for "VMware-vclient-all.exe" and a link to "Show all downloads".

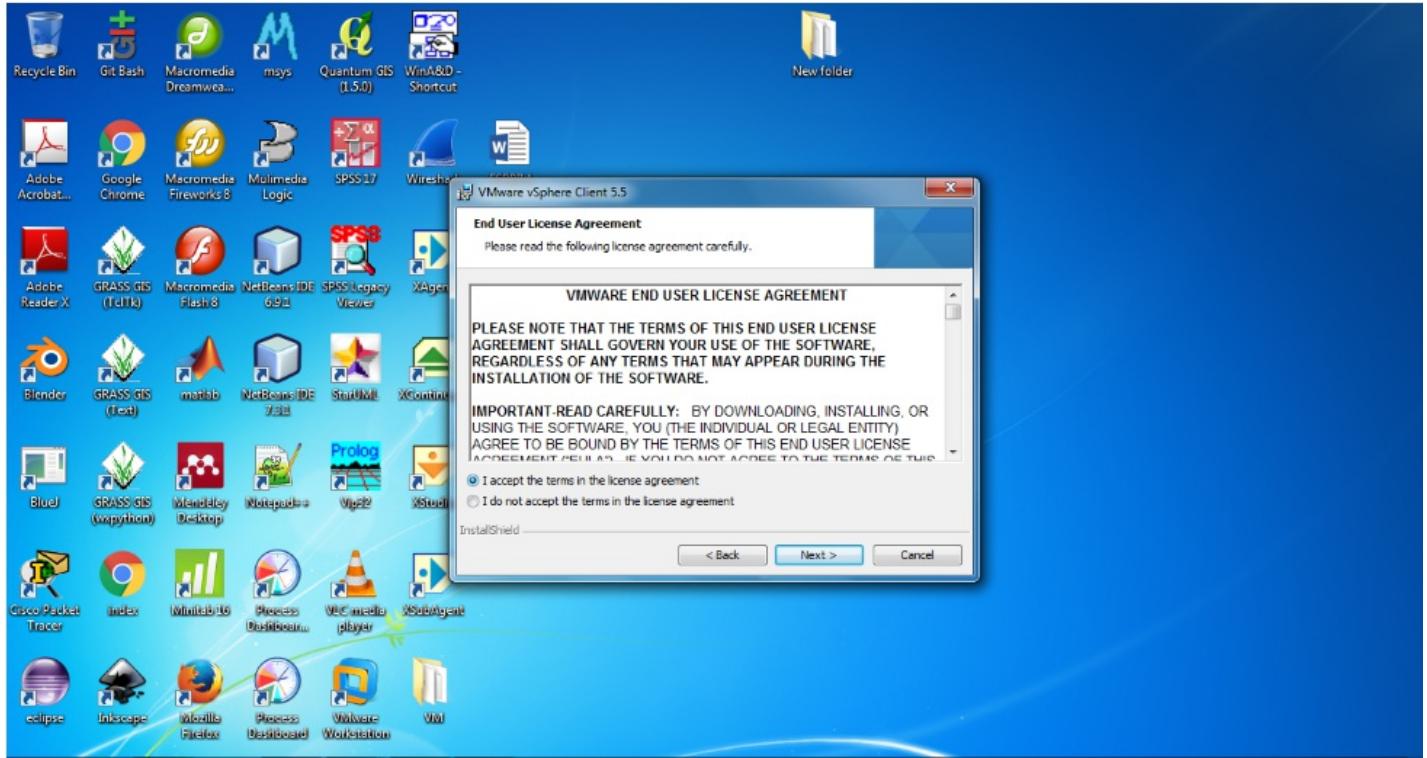
Install it as you'd normally do with any other software package.



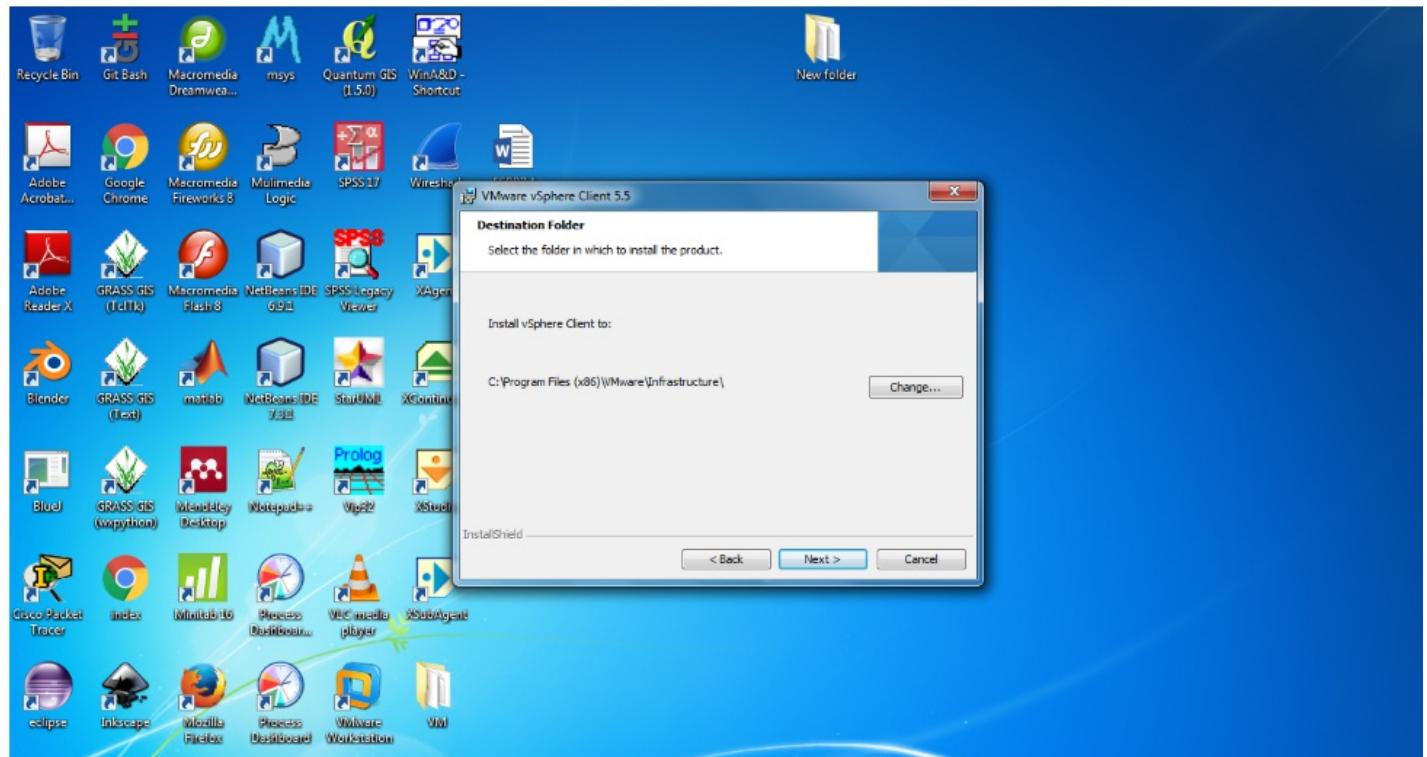
Click next button.



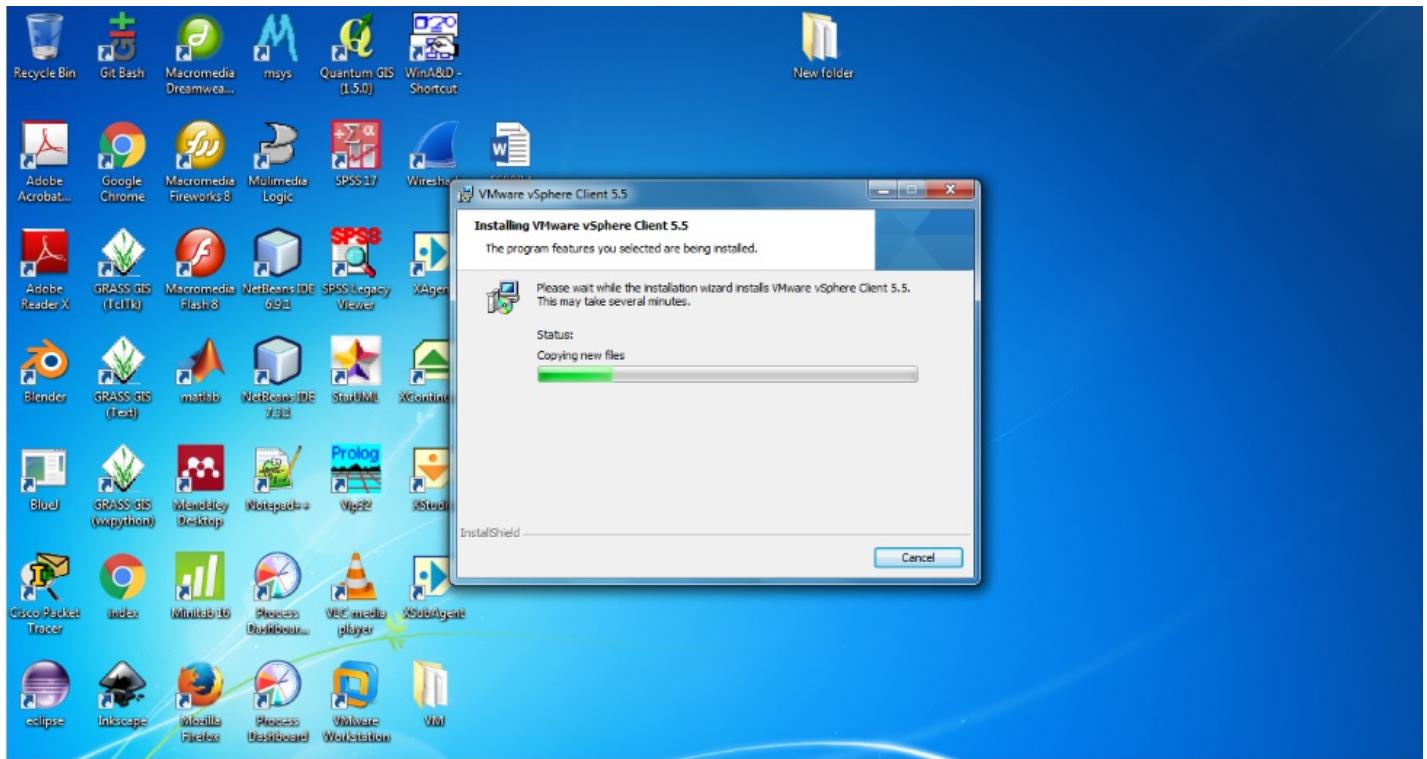
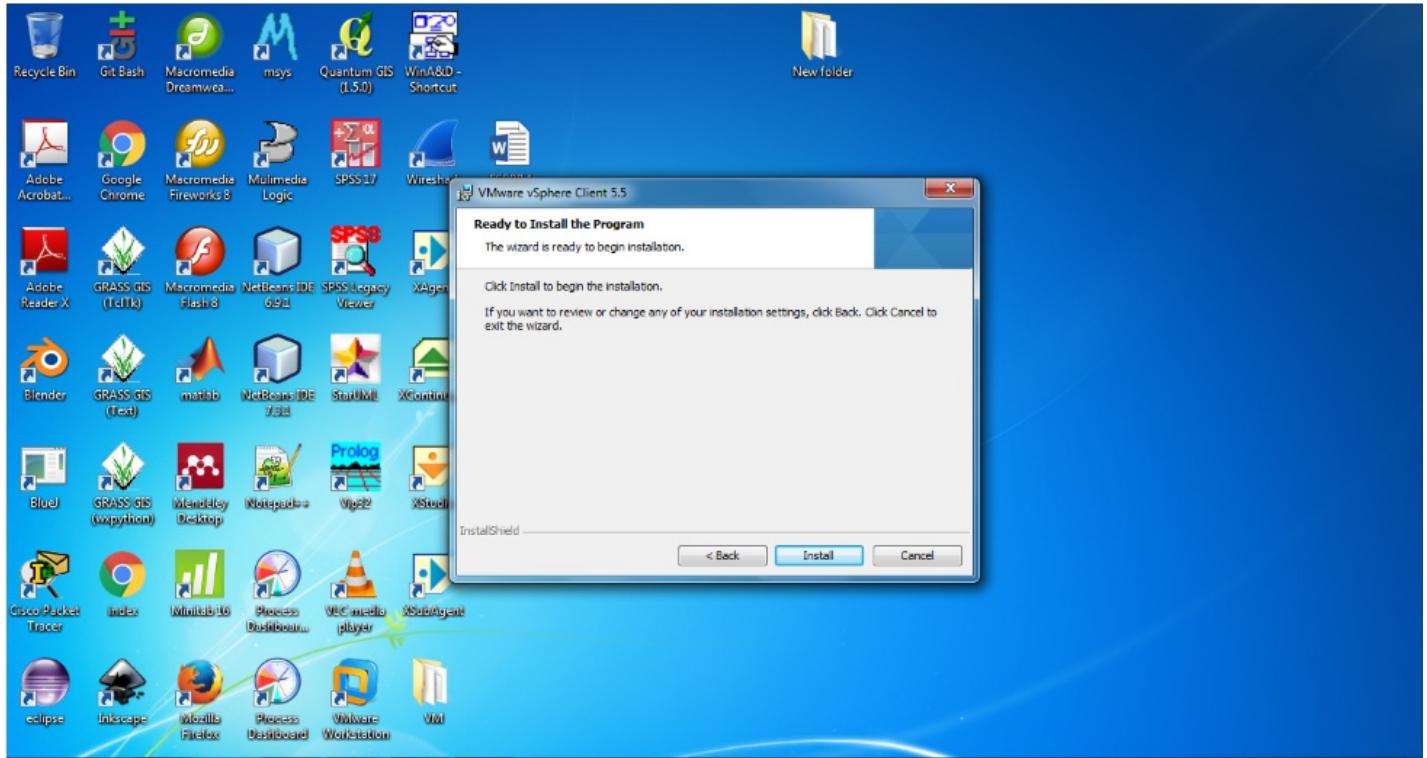
Accept the license agreement then click next button.



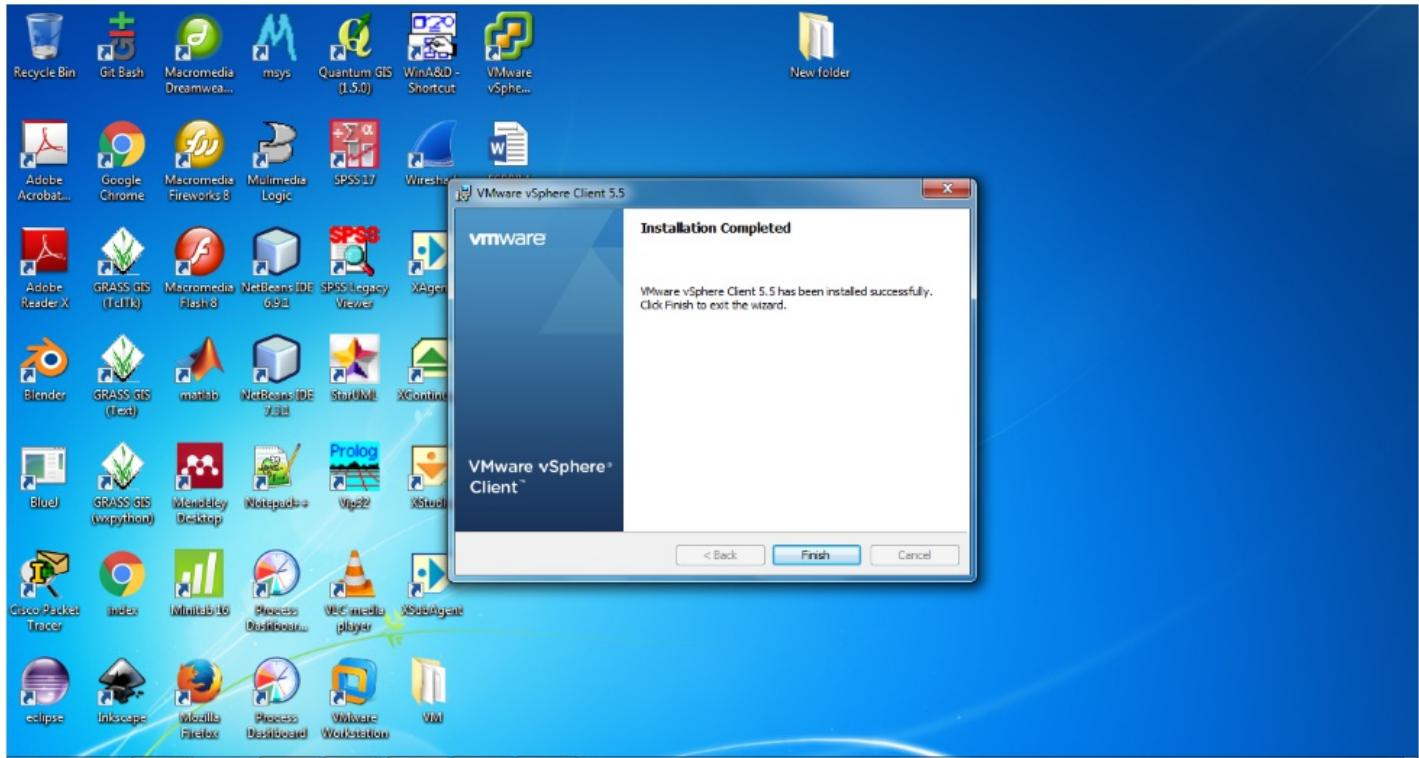
Select a folder to install VNware vSphere client 5.5 then click next button.



Click install button.

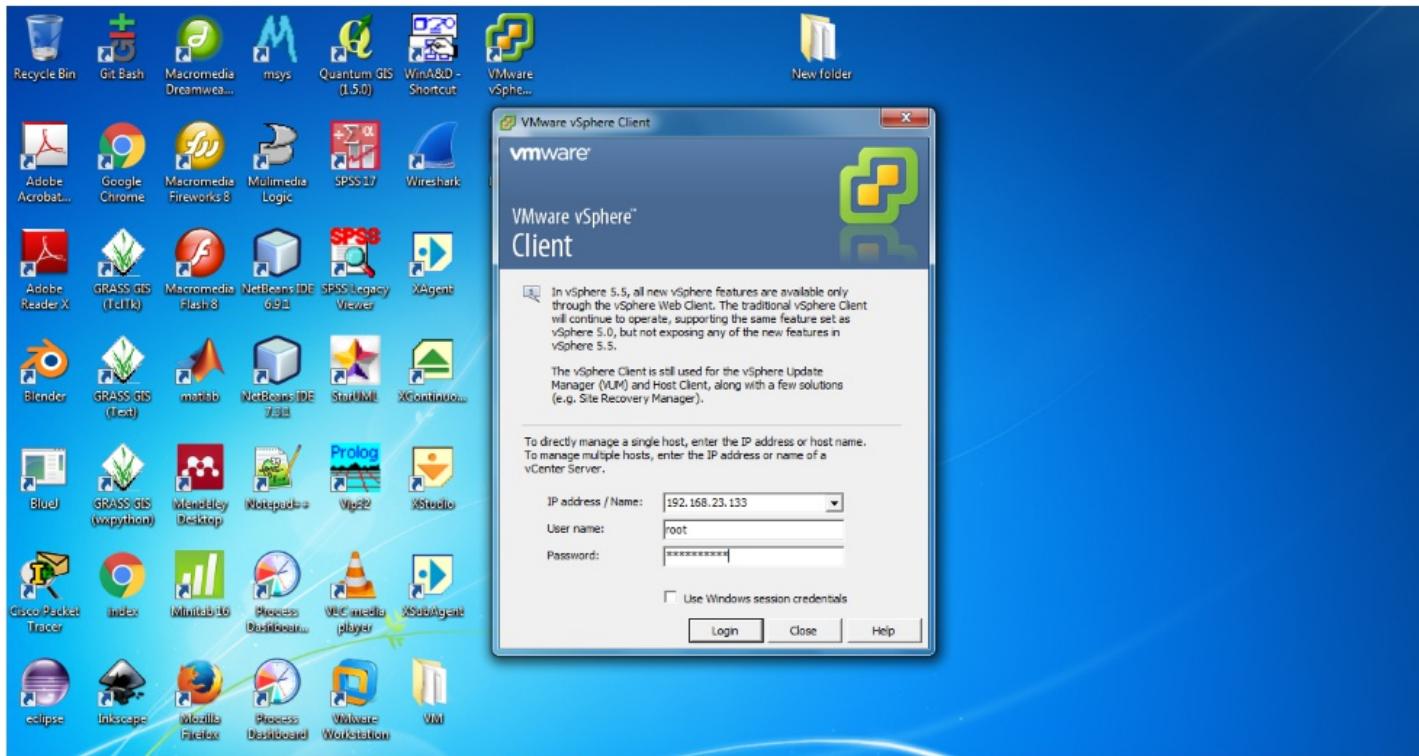


Click finish button.

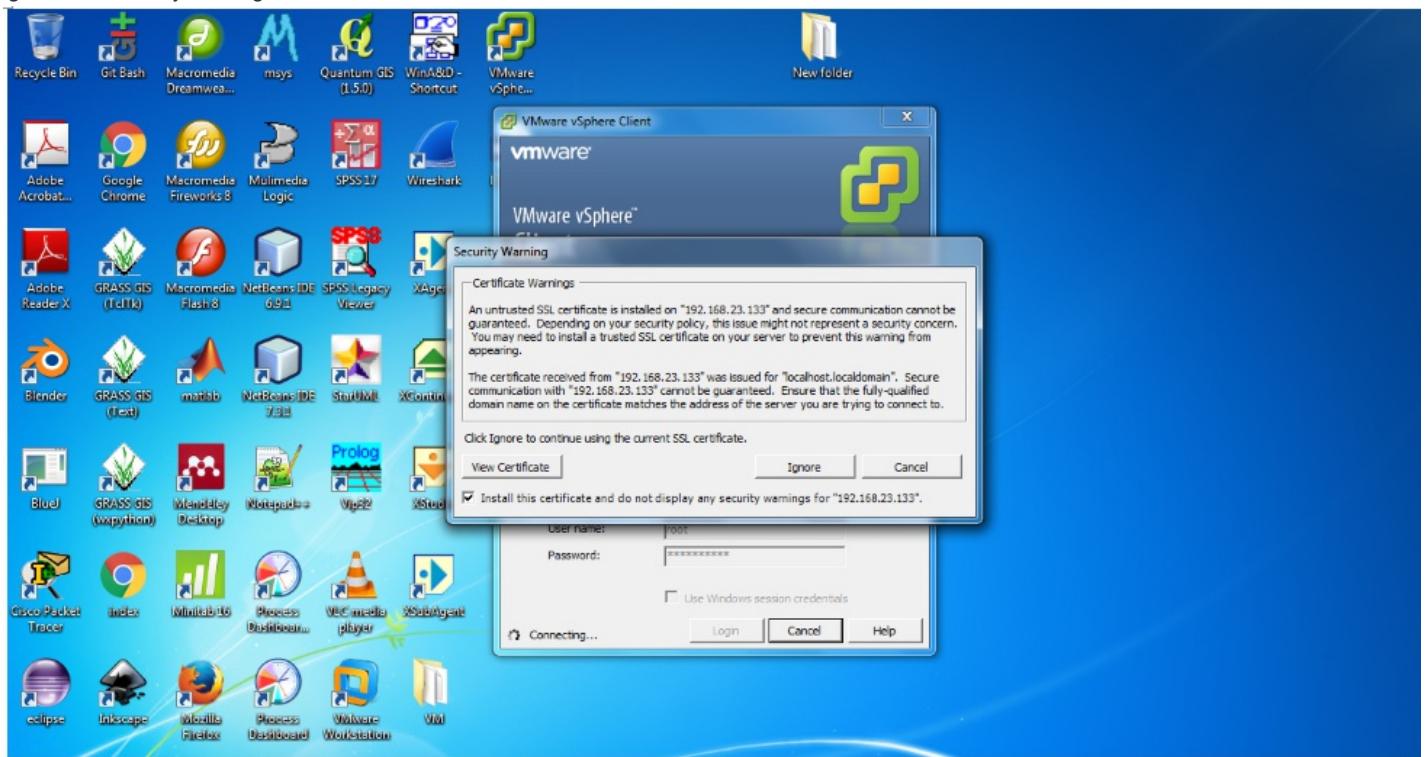


Configure the following settings:

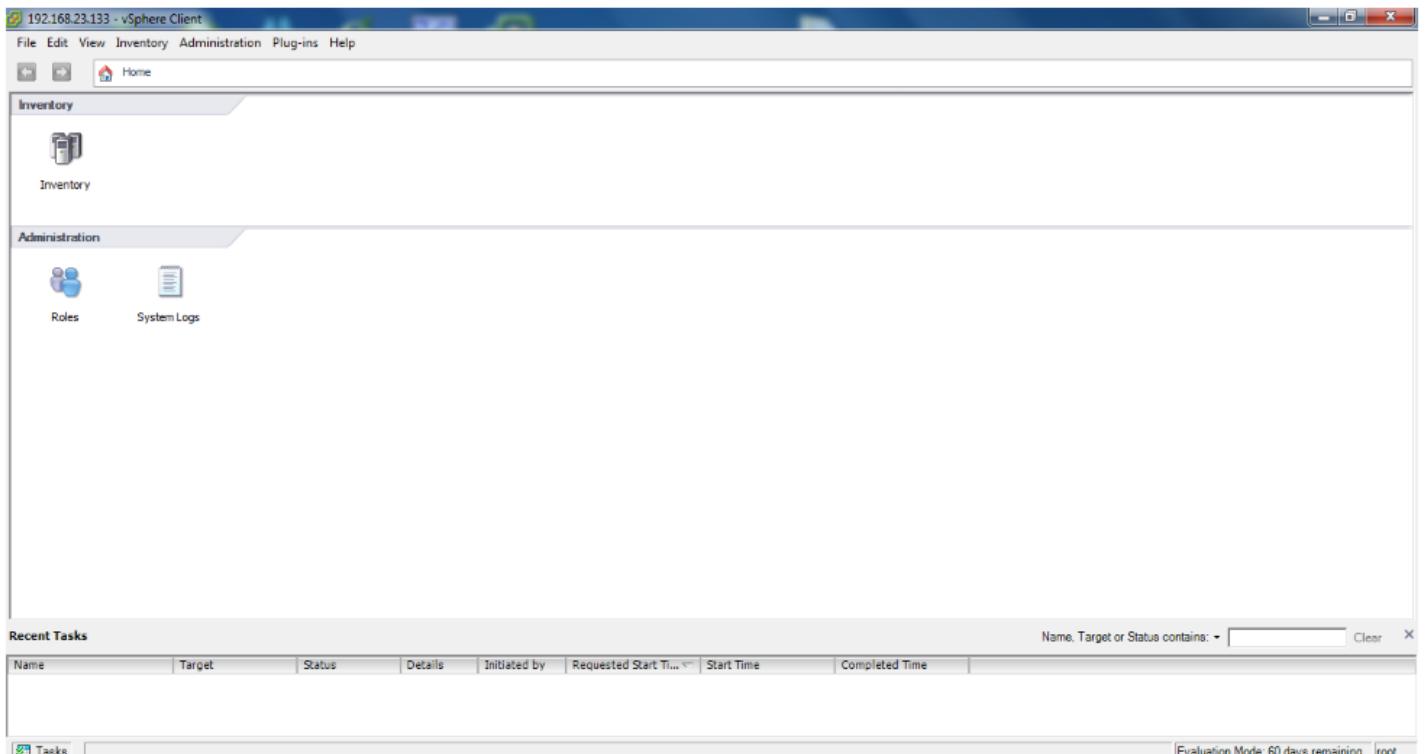
- IP address: 192.168.23.133
- User name:root
- Password:esbpII@123



Ignore the security warning.



your VSphere client interface will appear as below.



192.168.23.133 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home > Inventory > Inventory

localhost.localdomain VMware ESXi 5.5.0_2068190 | Evaluation (60 days remaining)

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

What is a Host?

A host is a computer that uses virtualization software, such as ESX or ESXi, to run virtual machines. Hosts provide the CPU and memory resources that virtual machines use and give virtual machines access to storage and network connectivity.

You can add a virtual machine to a host by creating a new one or by deploying a virtual appliance.

The easiest way to add a virtual machine is to deploy a virtual appliance. A virtual appliance is a pre-built virtual machine with an operating system and software already installed. A new virtual machine will need an operating system installed on it, such as Windows or Linux.

Virtual Machines

Host

vSphere Client

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

Name, Target or Status contains: Clear X

Tasks

Evaluation Mode: 60 days remaining root

Right click on database store->Browse Datastore.

192.168.23.128 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home > Inventory > Inventory

localhost.localdomain VMware ESXi 5.5.0_2068190 | Evaluation (60 days remaining)

Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions

General

Manufacturer:	VMware, Inc.
Model:	VMware Virtual Platform
CPU Cores:	2 CPUs x 3.192 GHz
Processor Type:	Intel(R) Core(TM) i3 CPU 550 @ 3.20GHz
License:	Evaluation Mode -
Processor Sockets:	2
Cores per Socket:	1
Logical Processors:	2
Hyperthreading:	Inactive
Number of NCIs:	1
State:	Connected
Virtual Machines and Templates:	0
vMotion Enabled:	N/A
VMware EVC Mode:	Disabled
vSphere HA State:	② N/A
Host Configured for FT:	N/A
Active Task:	
Host Profiler:	N/A
Trace Profiler:	ESXi-5.5.0-20140902001-st...

Resources

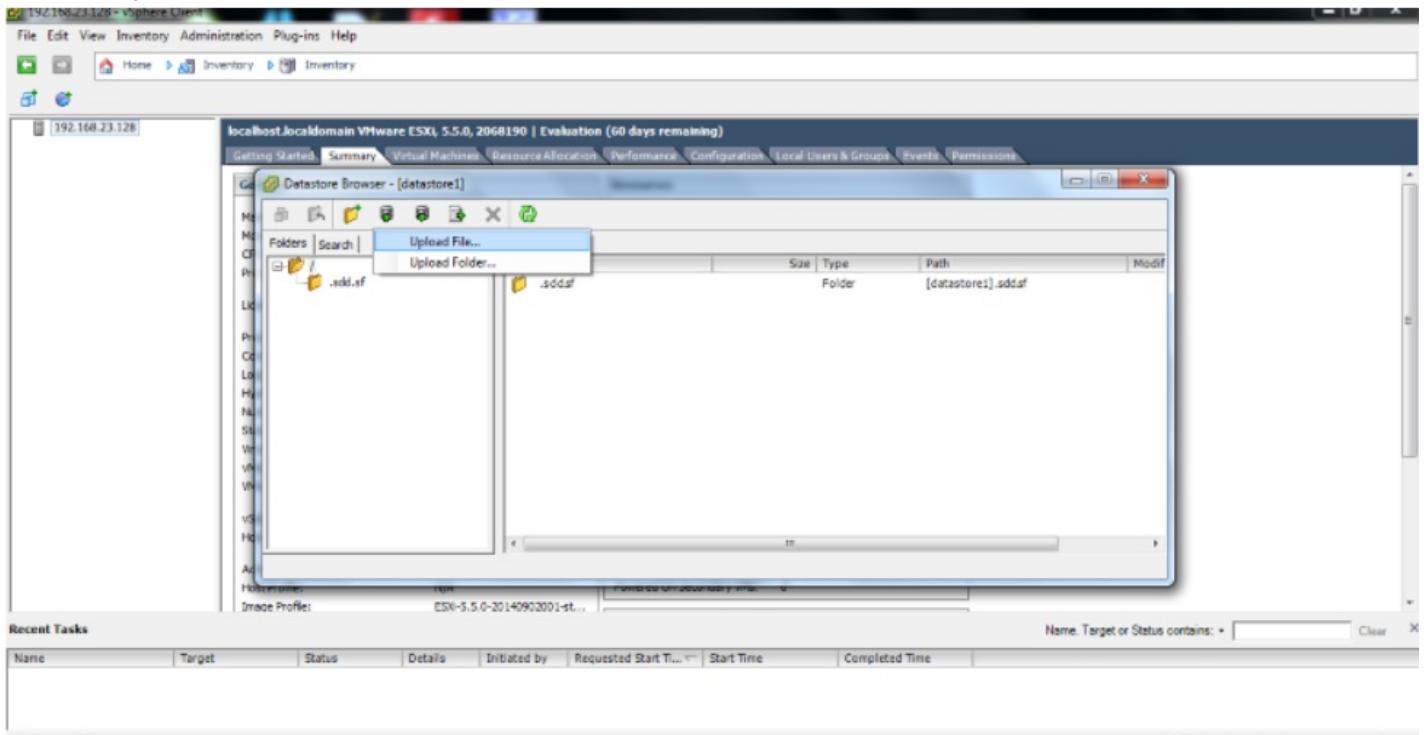
CPU usage: 141 MHz	Capacity: 2 x 3.192 GHz
Memory usage: 1152.00 MB	Capacity: 4095.49 MB
Storage	Drive Type Capacity
[datastore] 200GB 2TB 2x 1TB	2TB 2x 1TB
Browse Datastore...	
< >	
Network	Rename
VM VM	Unmount
	Delete
	Refresh
Fault Toler	Properties...
Fault Tolerance Copy to Clipboard Ctrl+C	
Total Primary VMs: 0	
Powered On Primary VMs: 0	
Total Secondary VMs: 0	
Powered On Secondary VMs: 0	

Recent Tasks

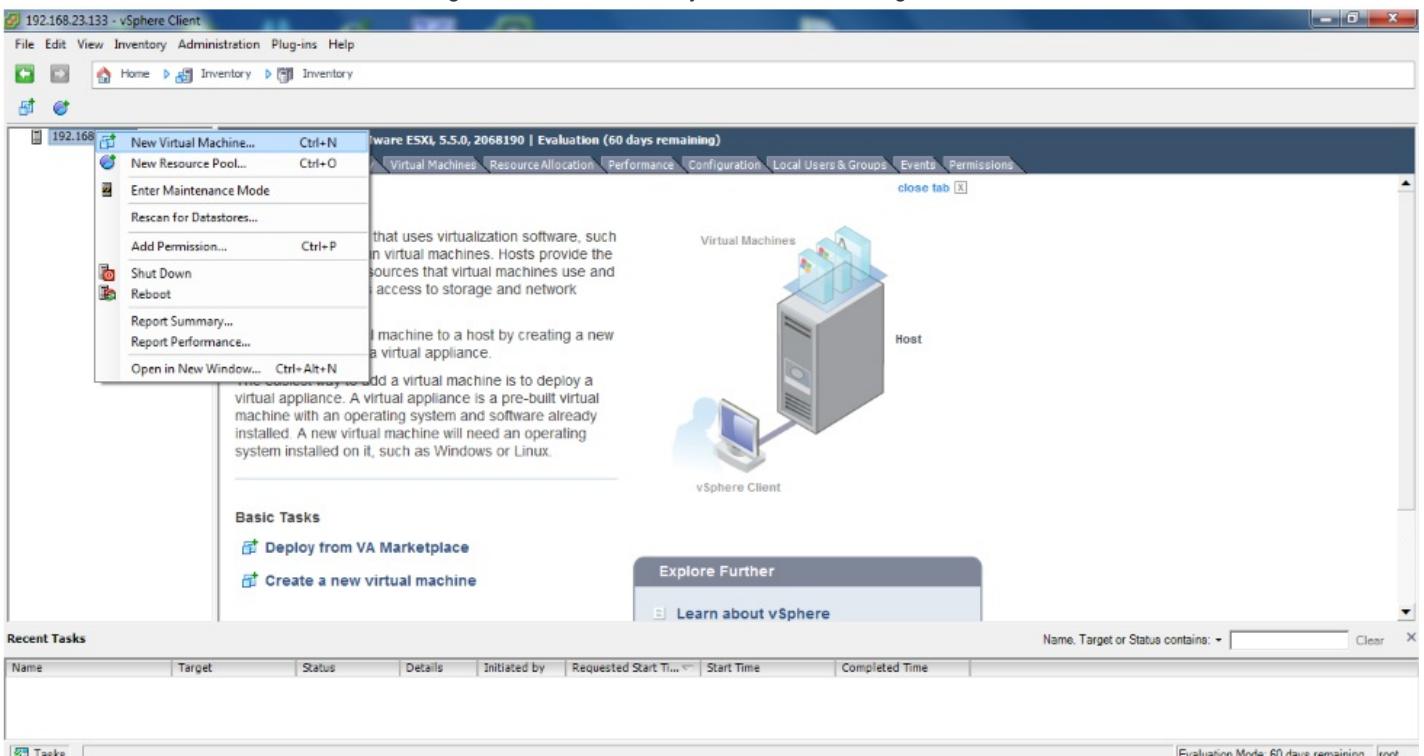
Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time

Name, Target or Status contains: Clear X

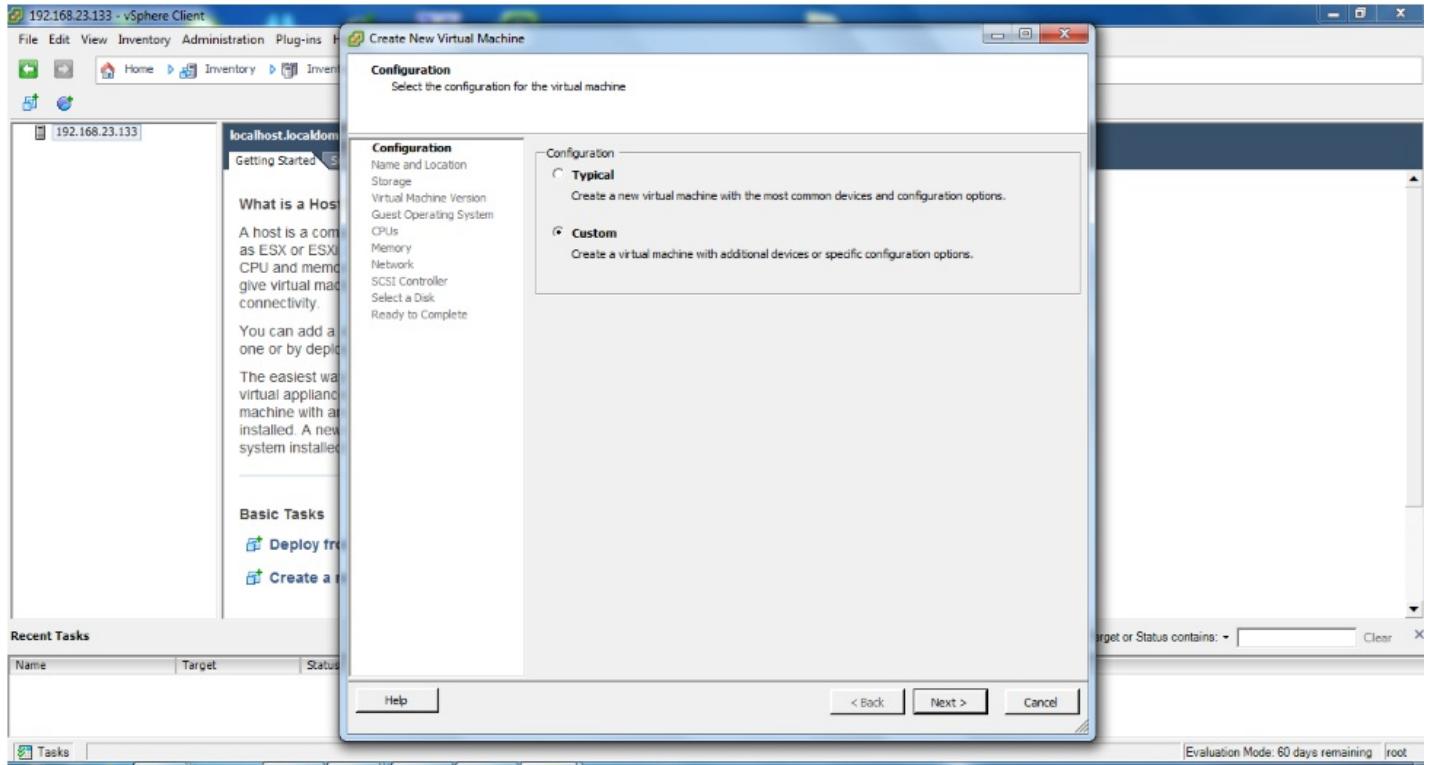
Then select upload File.



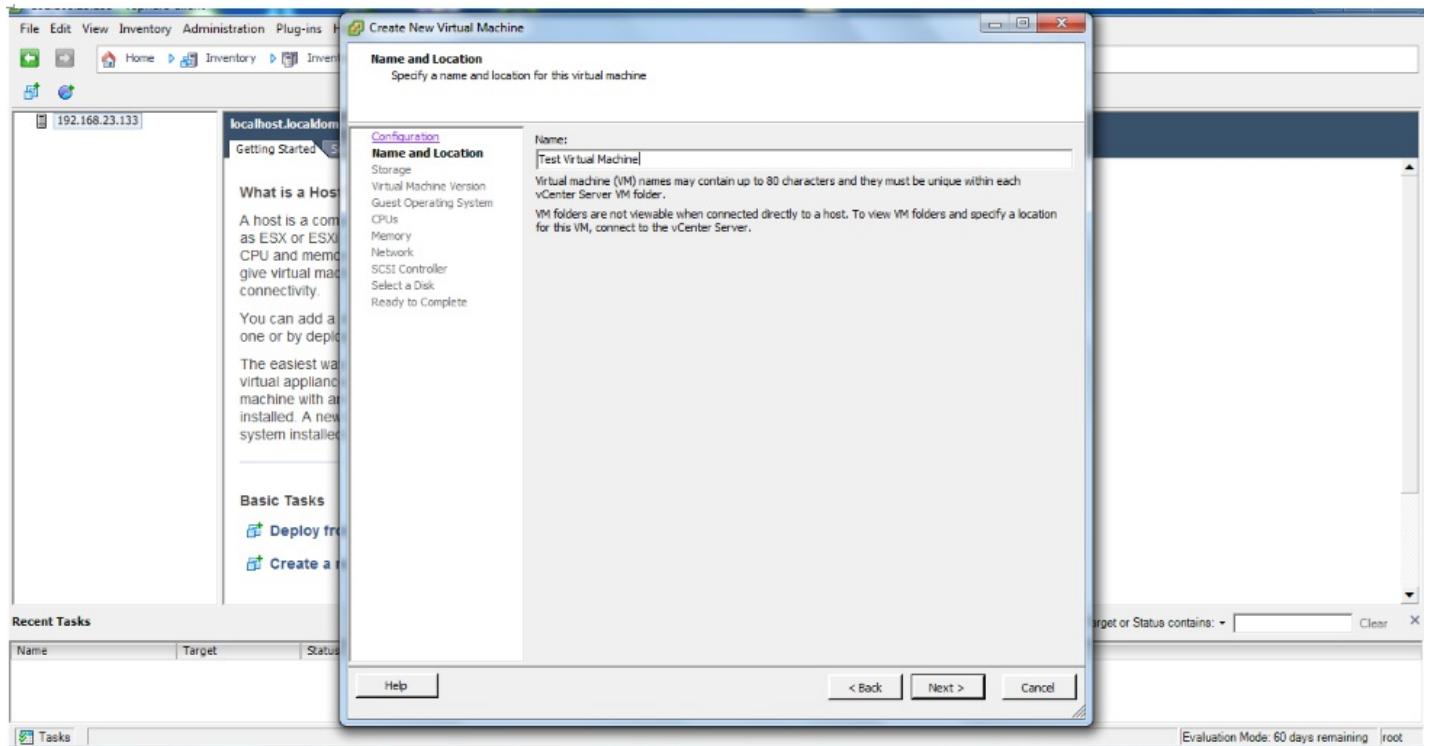
When the virtual machine has been created, right-click it in the inventory and click Edit Settings.



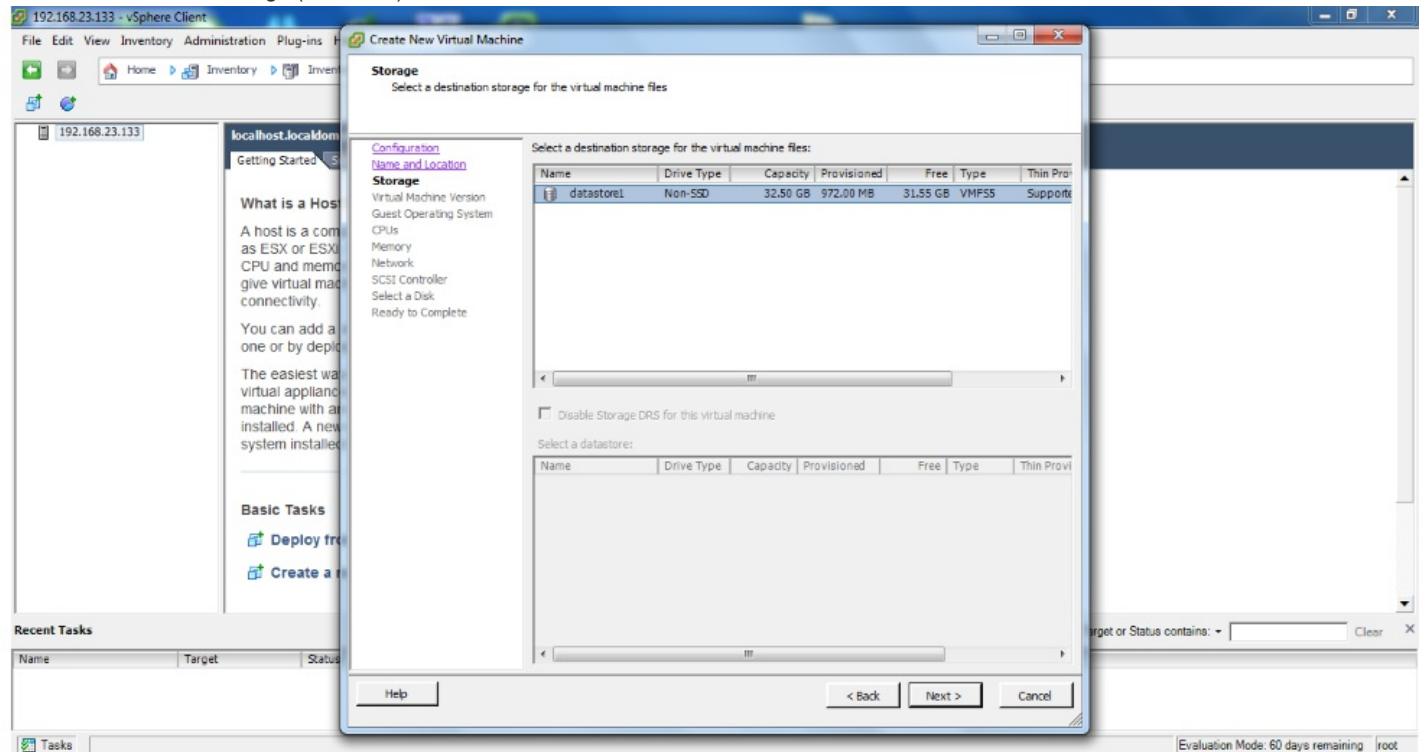
Select Typical and then click Next.



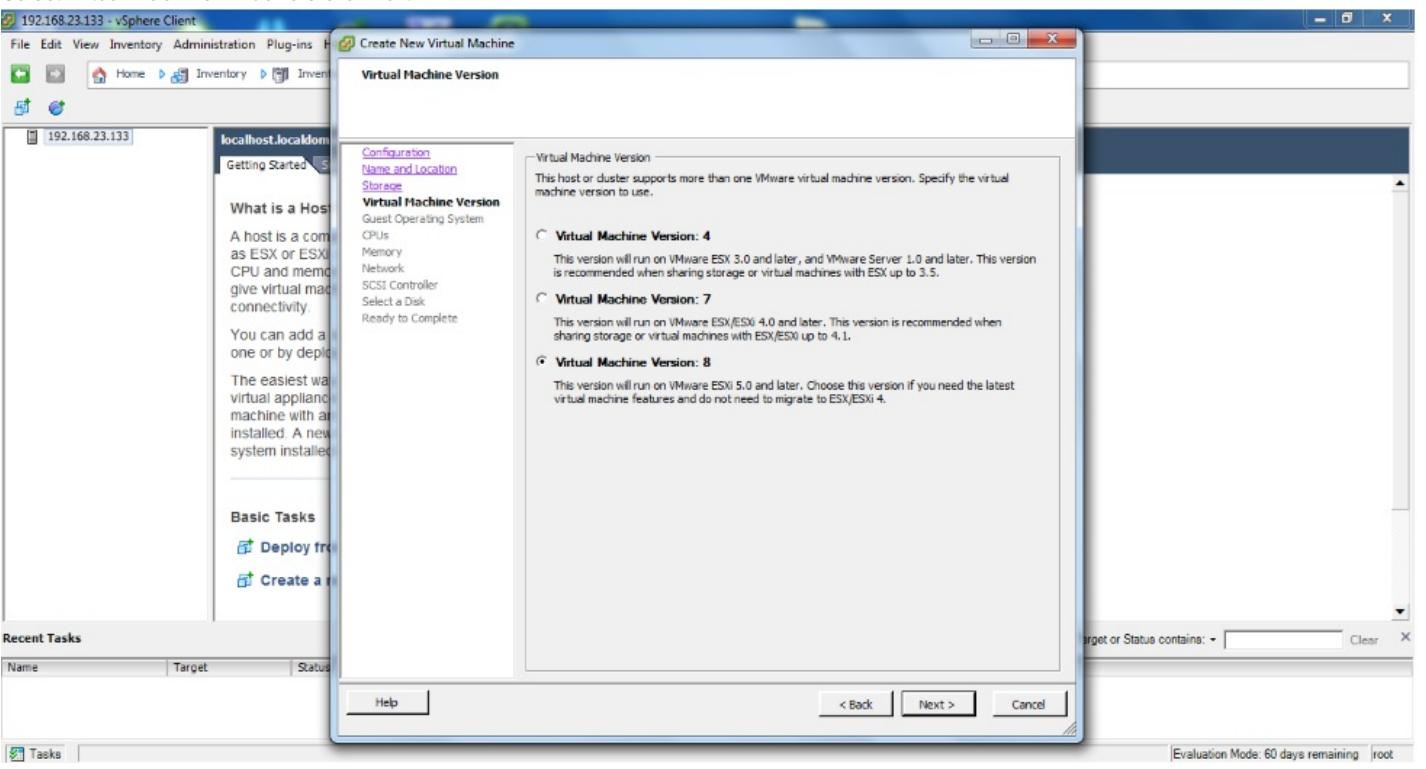
Type a virtual machine name.



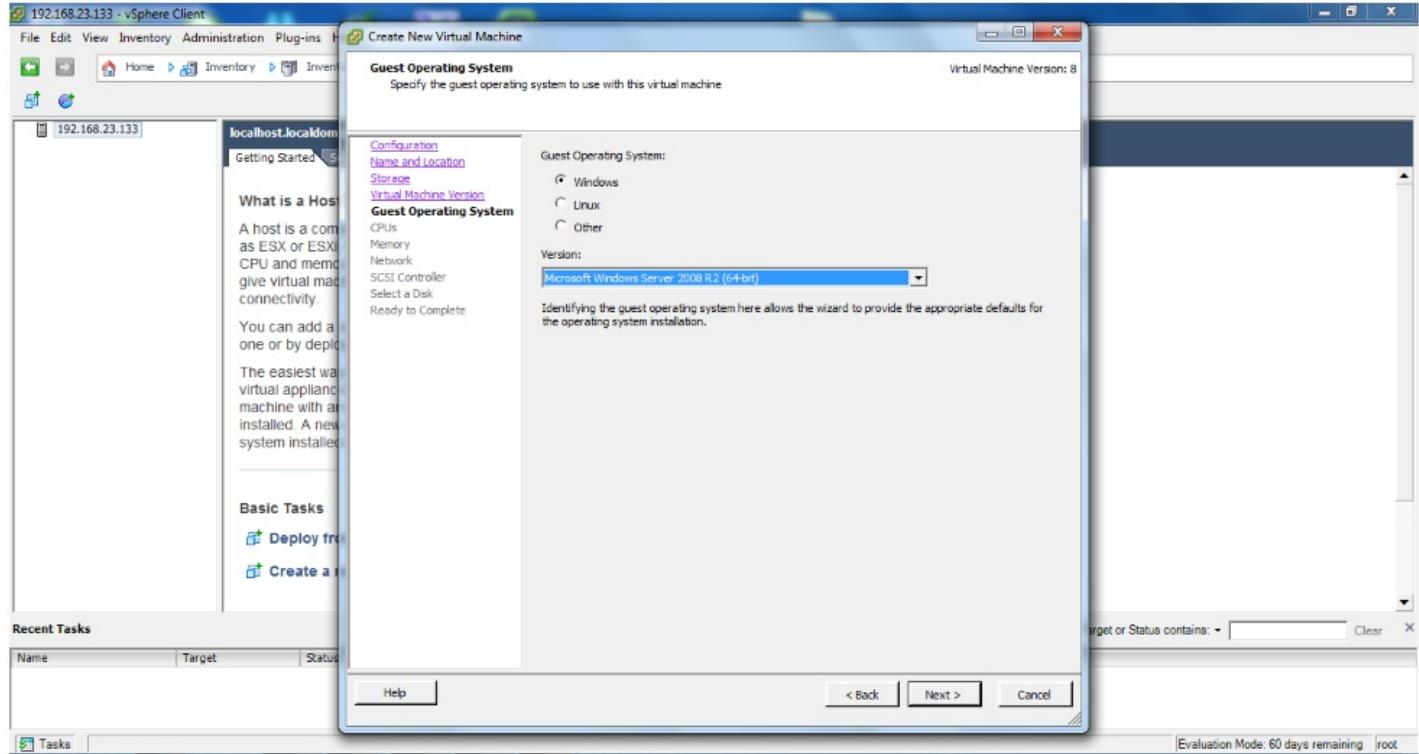
Select the destination storage (datastore) for the virtual machine and then click next.



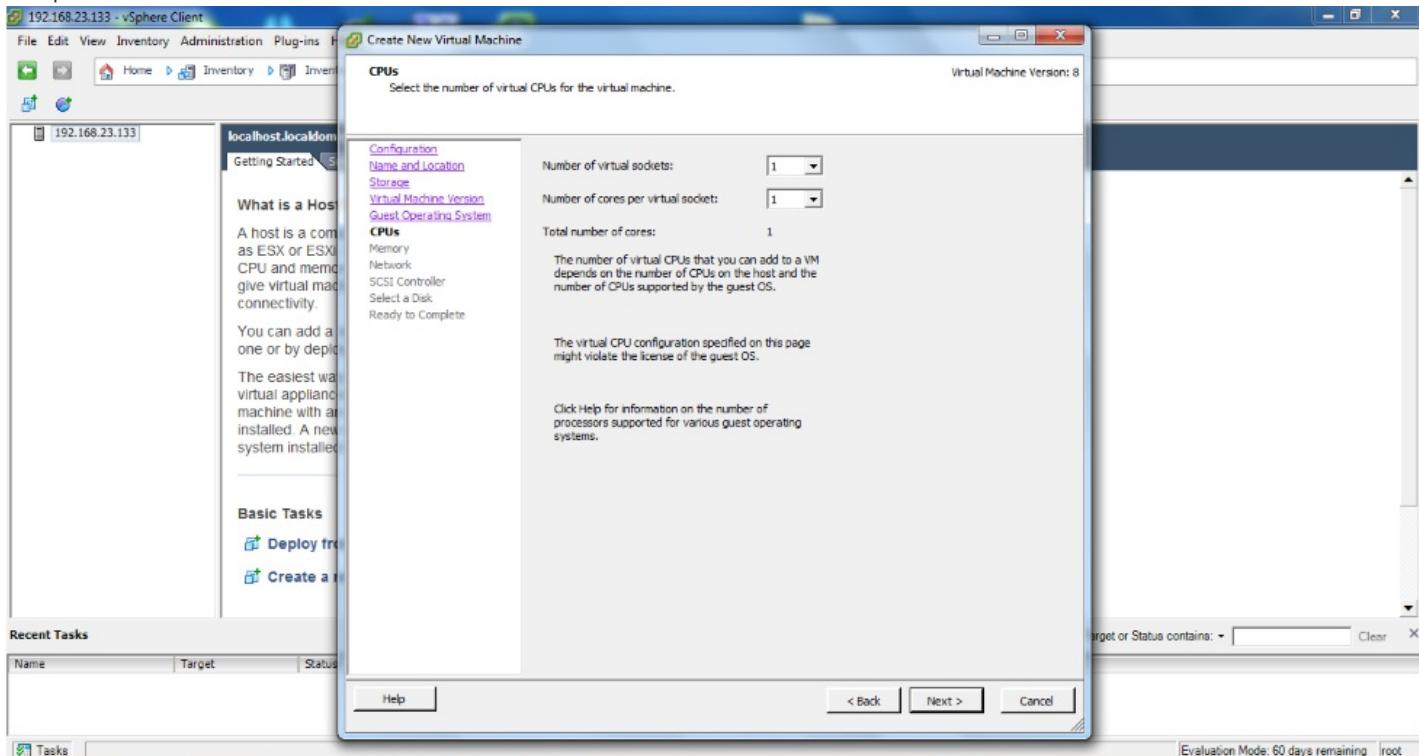
Select virtual machine windows 8 click next.



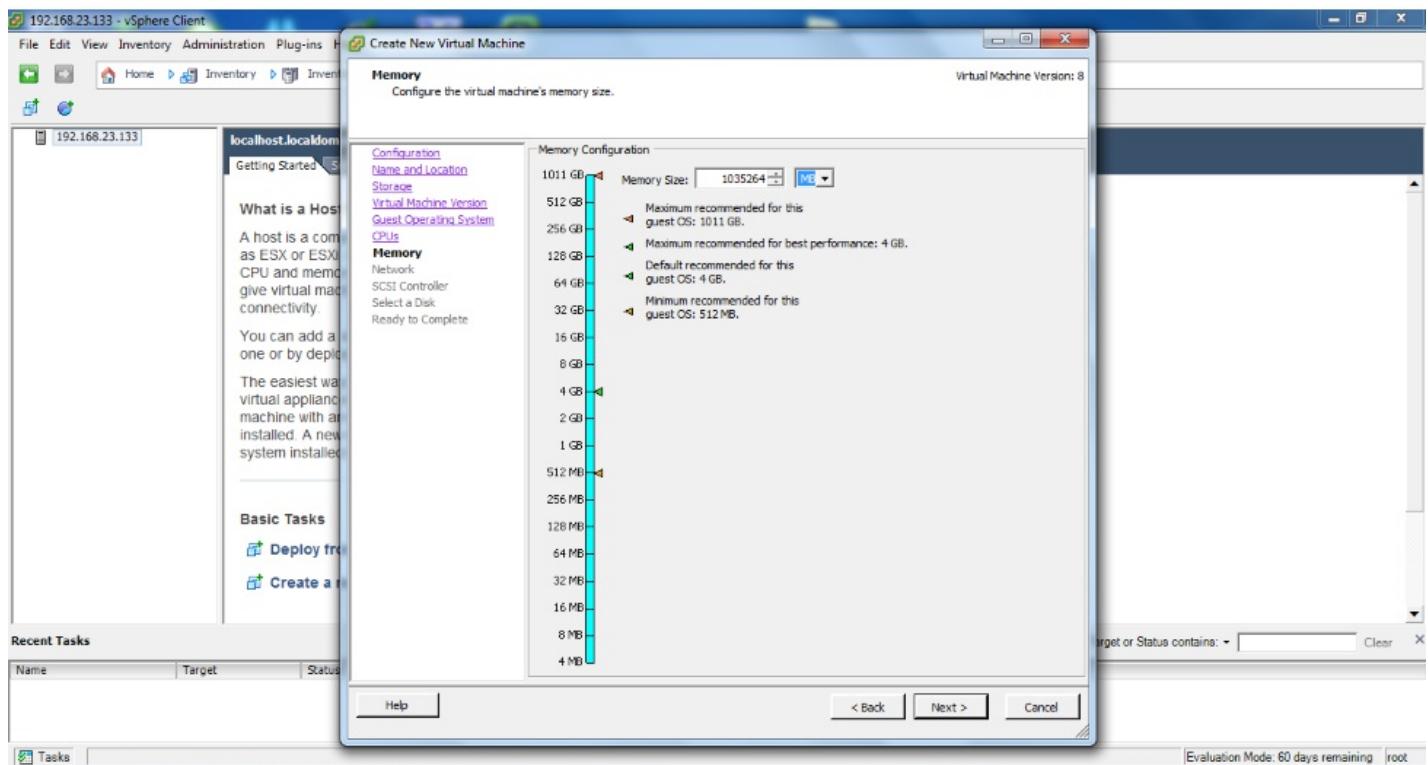
Select Linux and then select Other Linux (32-bit) Click Next.



Accept the default values of 1 virtual socket and 1 core and Click Next.

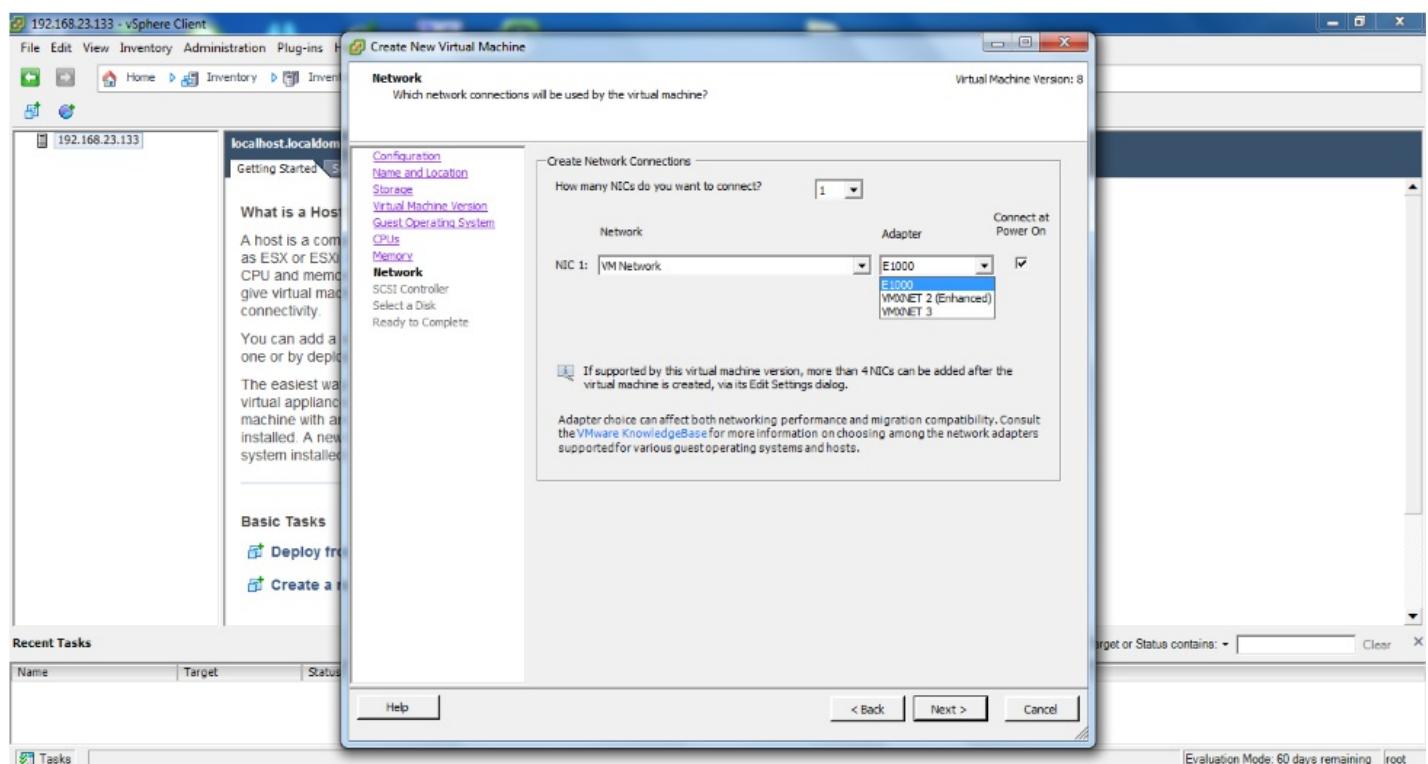


Allocate 1GB for Windows 7 and Click Next.

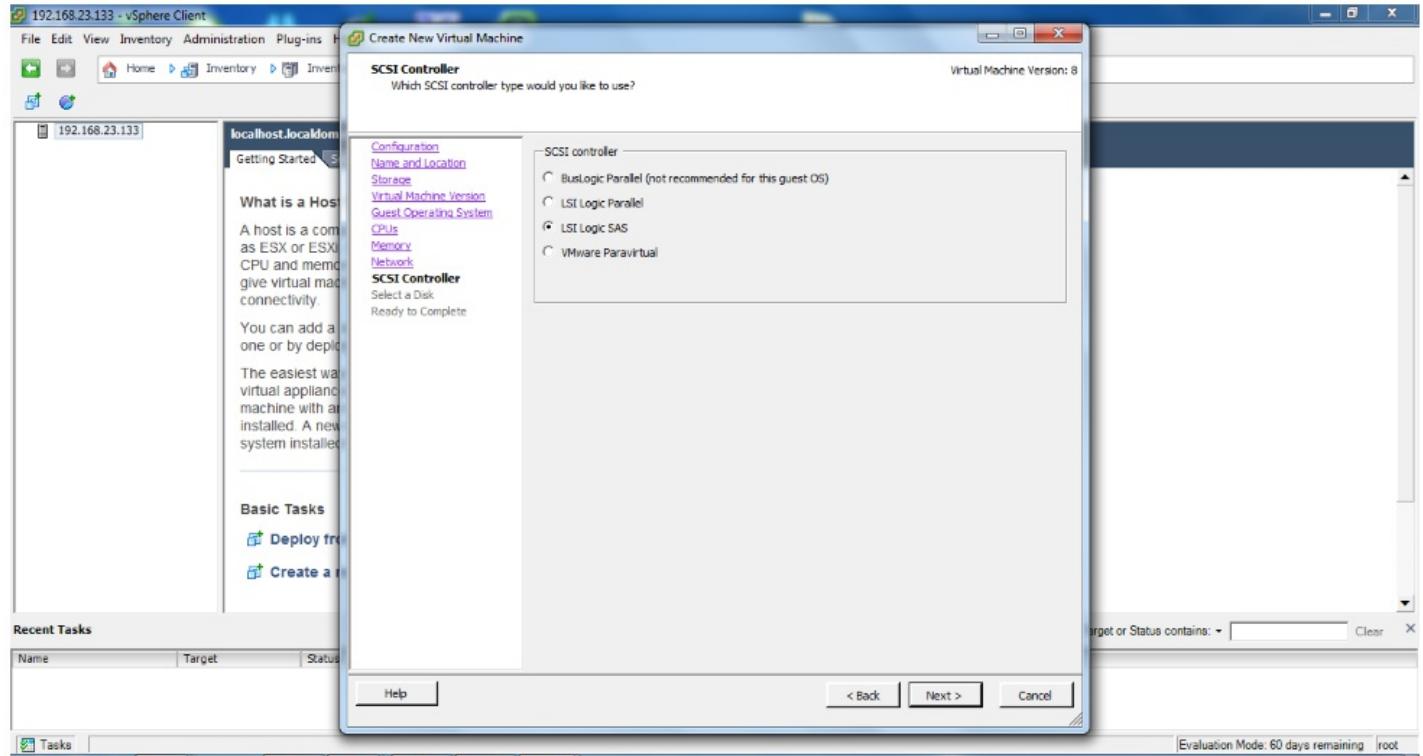


Configure the following settings:

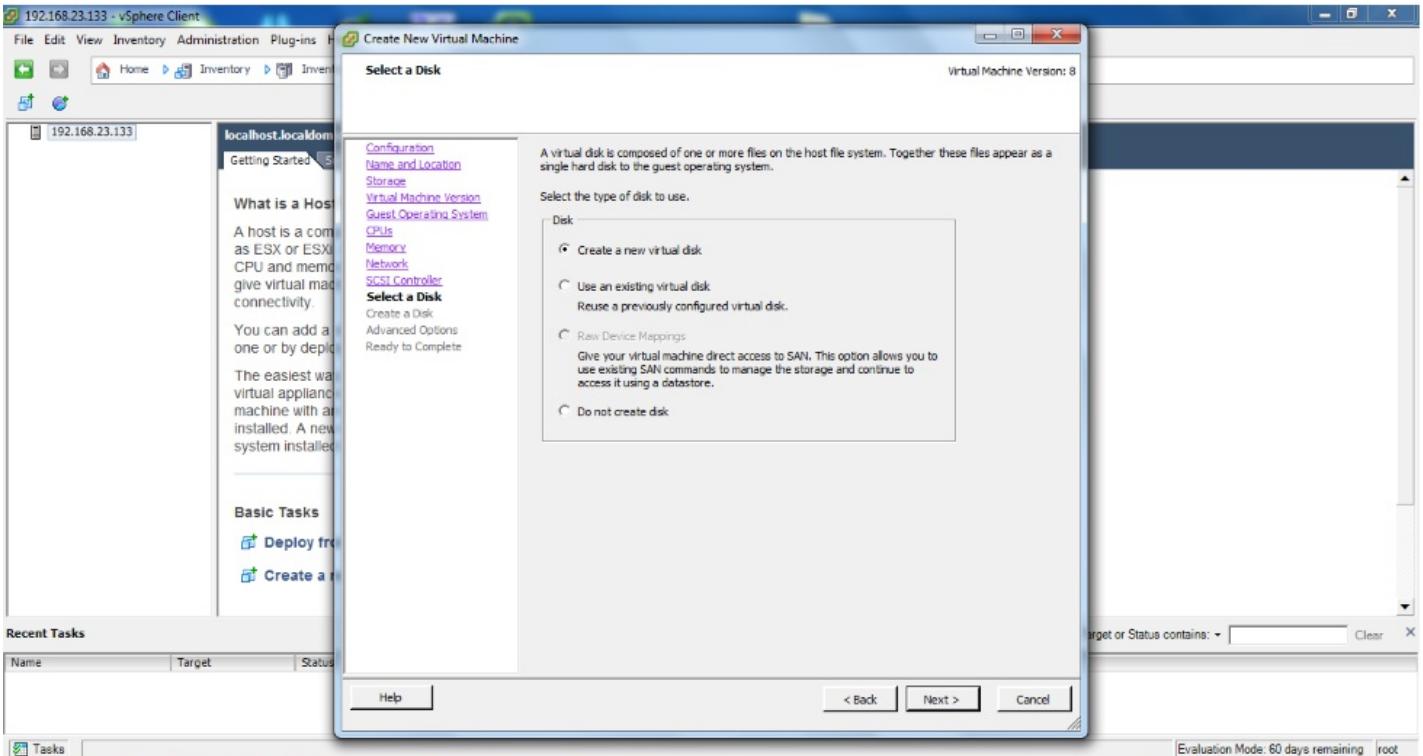
- How many NICs do you want to connect?: 1
- Network: VM Network
- Adapter: E1000
- Connect at Power On: Enabled



Select LSI logic SAS for Windows 7 and Click Next.



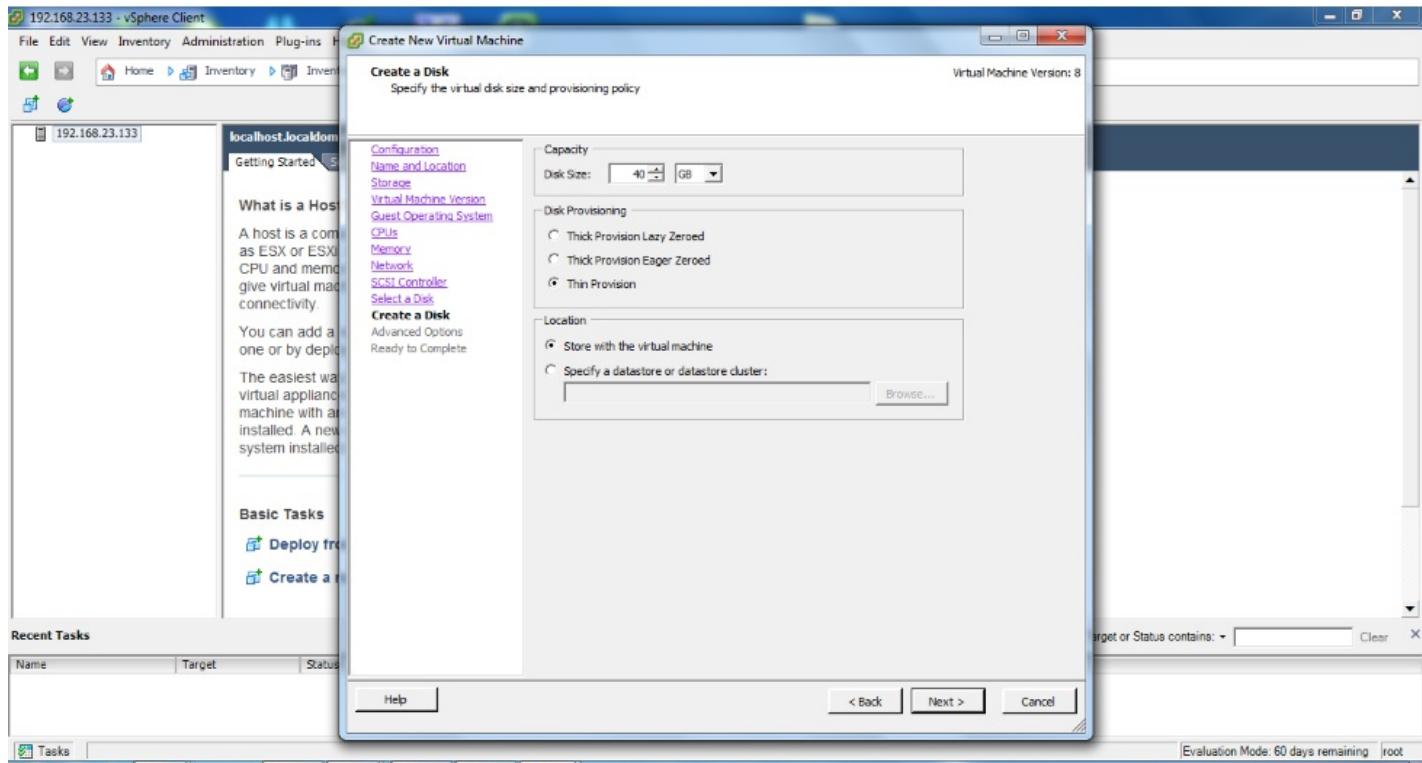
Select Create a new virtual disk and then click Next.



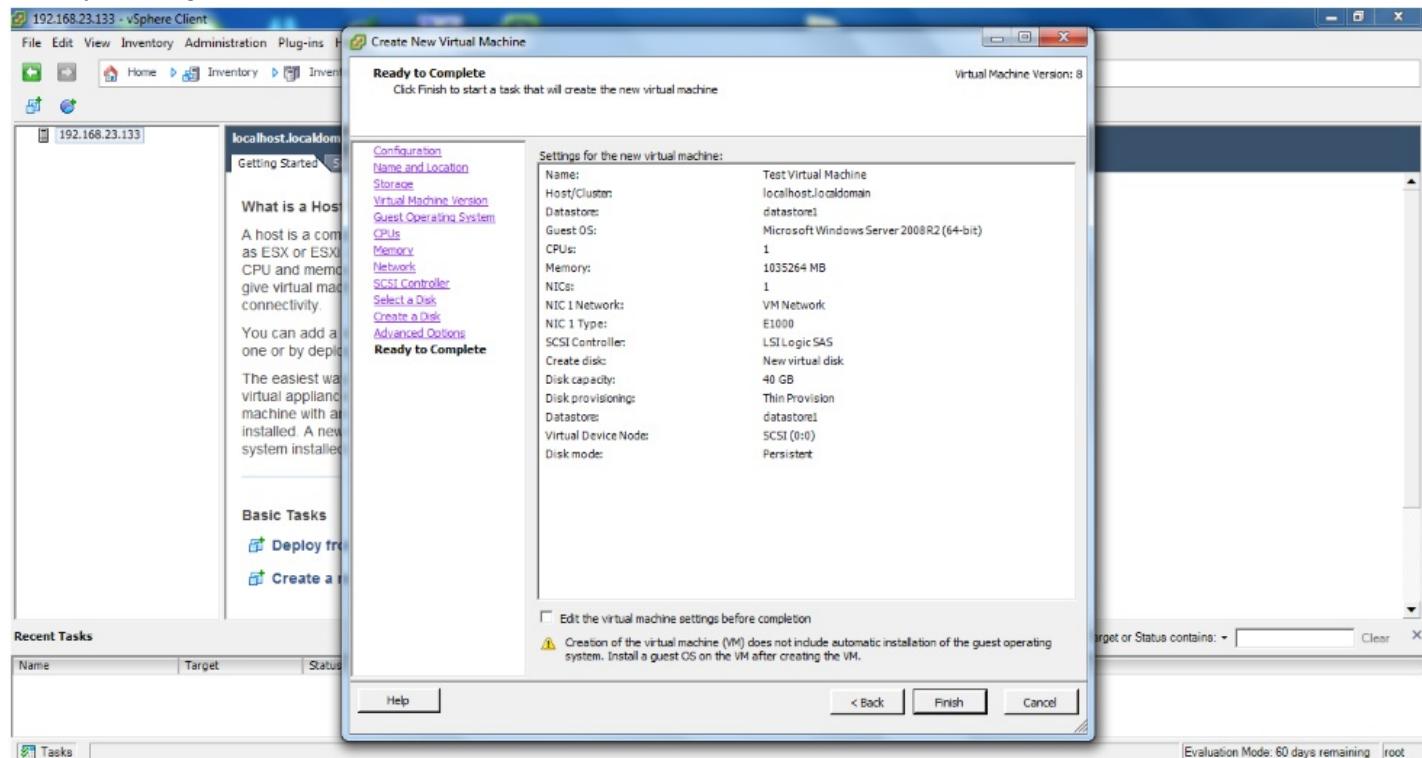
Configure the following settings:

- Capacity: 40GB
- Disk Provisioning: Thin Provision

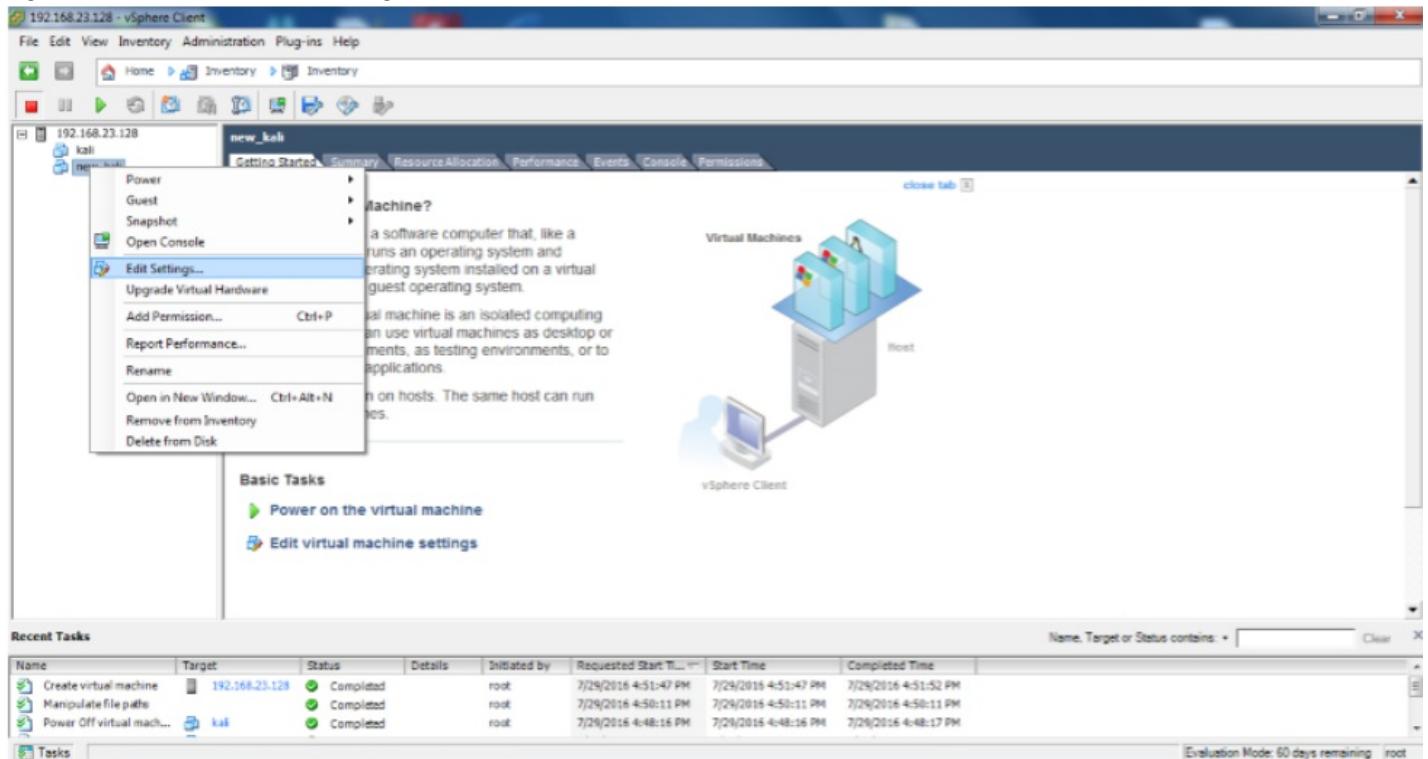
Click Next.



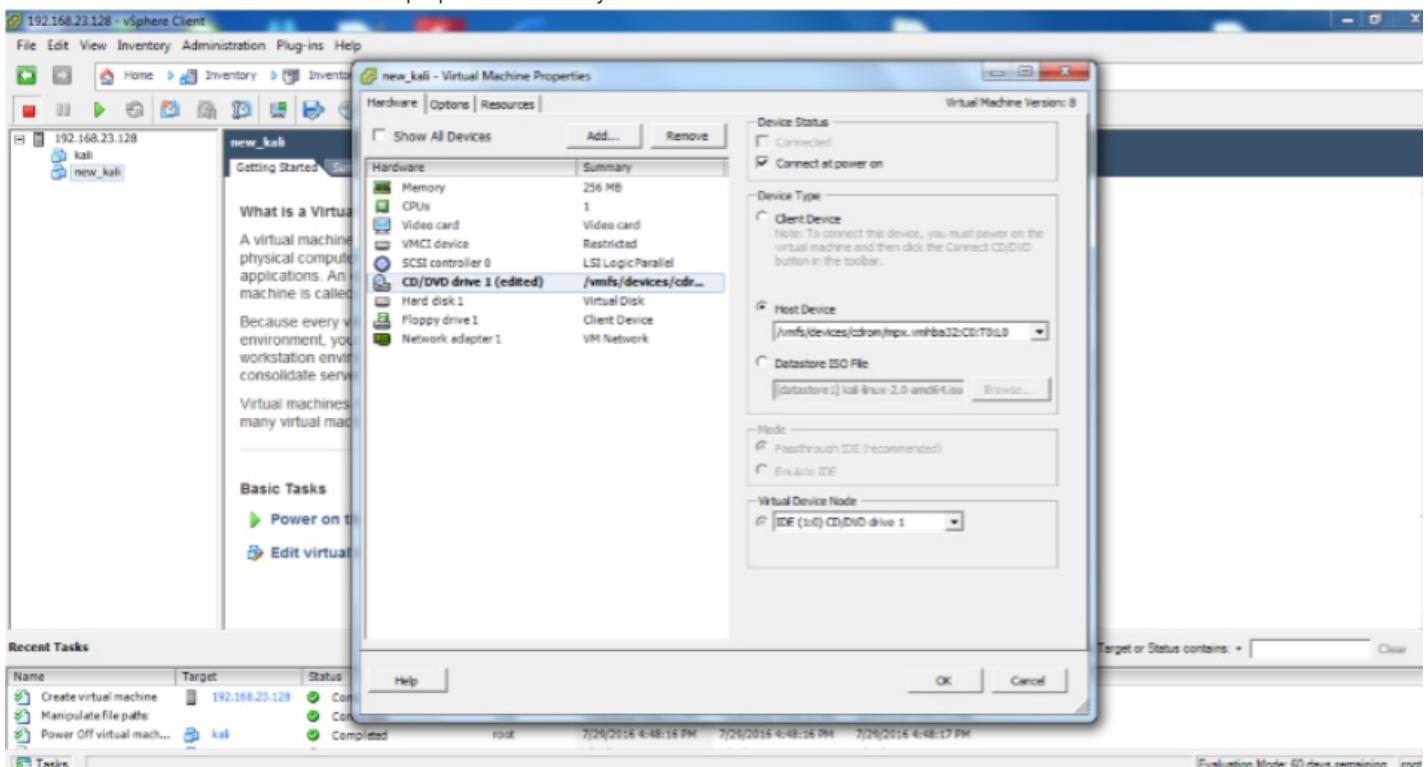
Review your settings and then click Finish. The VMware ESXi server starts to create the virtual machine.



Right click on new kali linux->Edit settings.



Select CD/DVD drive 1 in virtual Machine properties windows.yhen clik ok button.



Then it will appear the new kali virtual machine.

The screenshot shows two windows of the vSphere Client interface. The top window displays the 'Inventory' screen for host 192.168.23.130, listing a single virtual machine named 'Kali_Esbp1'. The bottom window shows the 'Console' tab for the same virtual machine, displaying a black terminal window with the following text:

```
Network boot from AMD AM79C970A
Copyright (C) 2003-2008 VMware, Inc.
Copyright (C) 1997-2008 Intel Corporation

CLIENT MAC ADDR: 00 0C 29 C8 C7 2E  GUID: 564D6F82-54FC-1088-69B8-28D8DFC0C72E
PXE-E53: No boot filename received

PXE-MOF: Exiting Intel PXE ROM.
Operating System not found
```

Below the terminal window, a 'Recent Tasks' table lists three completed tasks:

Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Reconfigure virtual ma...	Kali_Esbp1	Completed		root	7/29/2016 5:04:30 PM	7/29/2016 5:04:30 PM	7/29/2016 5:04:30 PM
Power On virtual mach...	Kali_Esbp1	Completed		root	7/29/2016 5:01:40 PM	7/29/2016 5:01:40 PM	7/29/2016 5:01:45 PM
Create virtual machine	192.168.23.130	Completed		root	7/29/2016 5:01:16 PM	7/29/2016 5:01:16 PM	7/29/2016 5:01:20 PM

The bottom window shows the Kali Linux desktop environment with the classic blue logo and a white cat icon. A taskbar at the bottom includes icons for Applications, Places, and a power button. The 'Recent Tasks' table below the desktop also lists three completed tasks, identical to the one in the top window.

Use some commands.

