

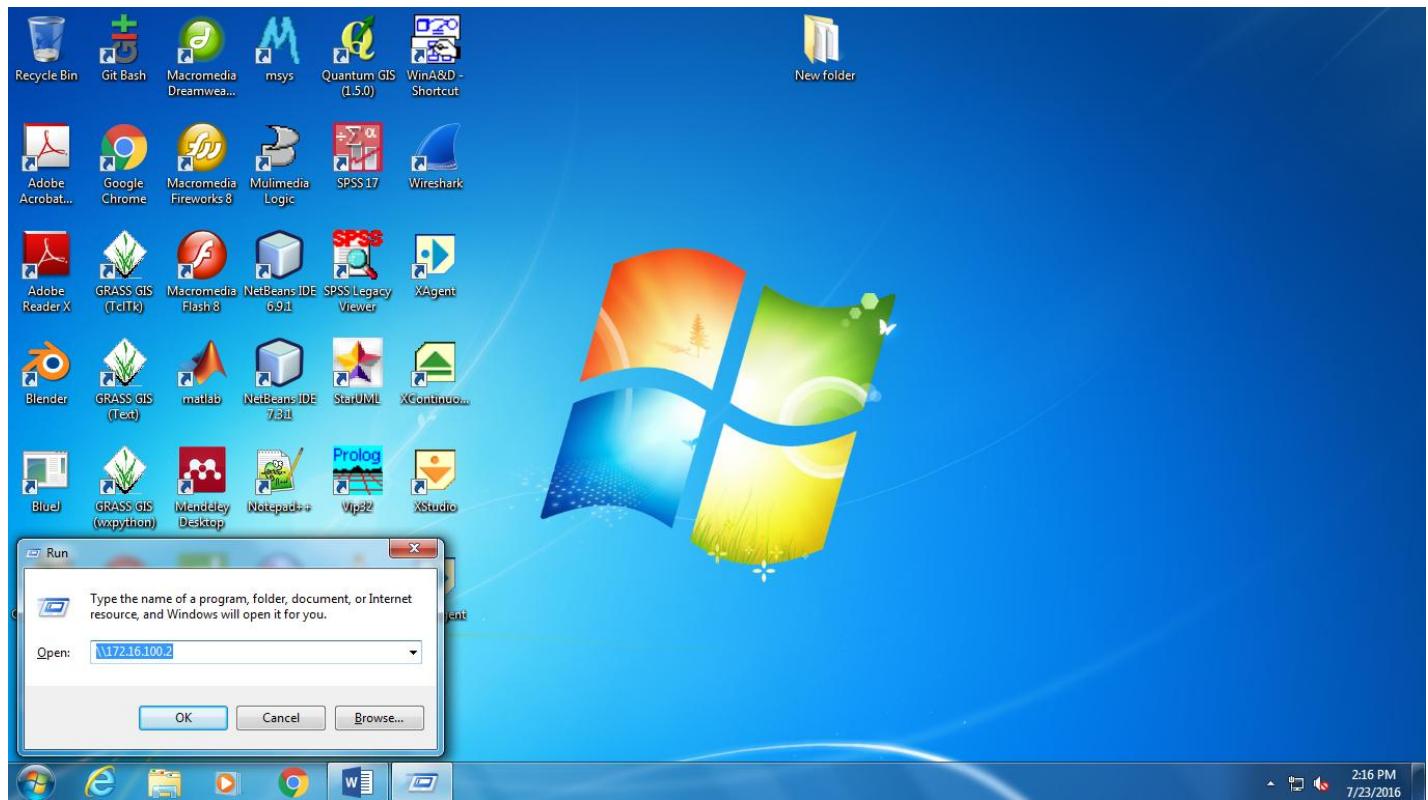
## Bare Metal Installation

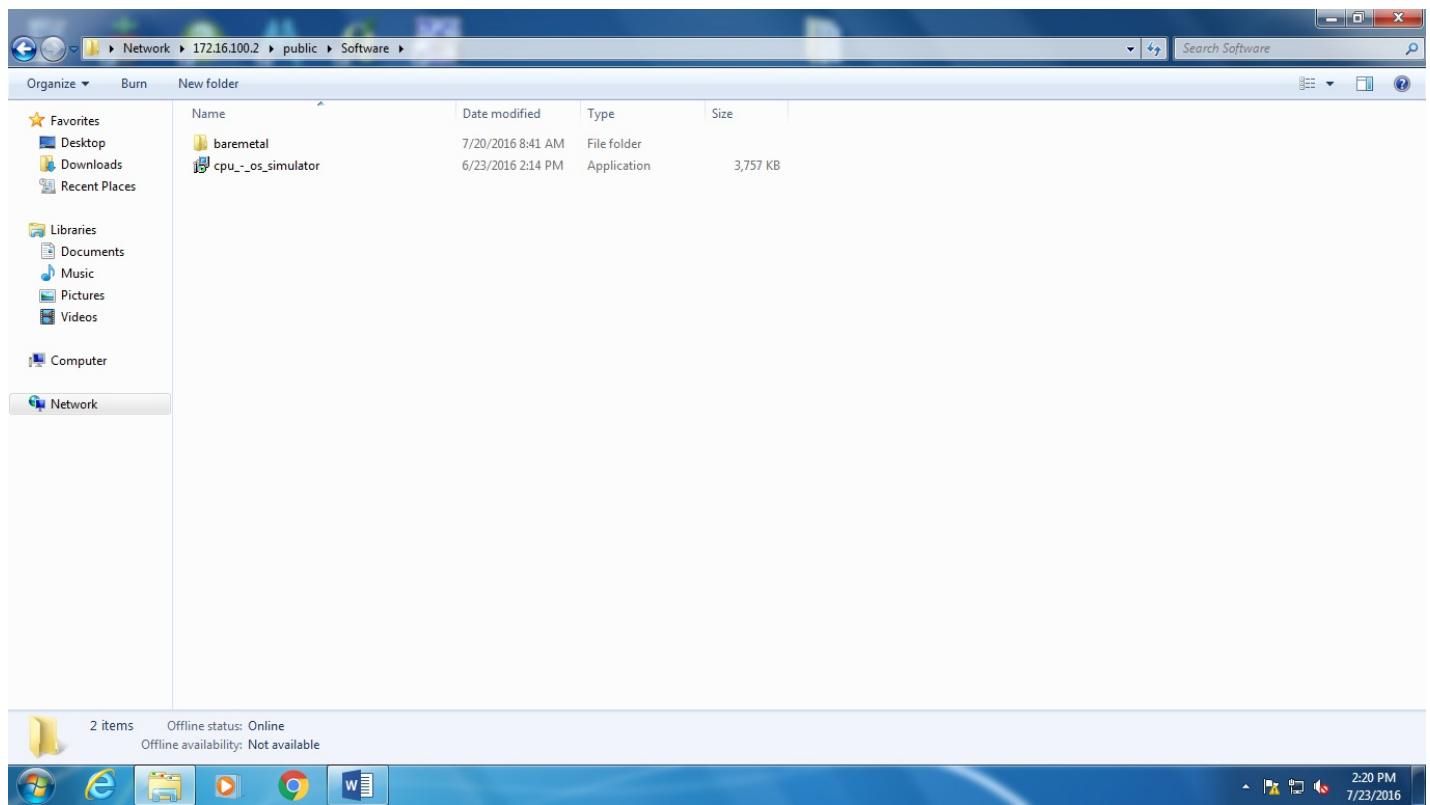
### Introduction about Bare Metal

A bare metal environment is a computer system or network in which a virtual machine is installed directly on hardware rather than within the host operating system (OS). The term "bare metal" refers to a hard disk, the usual medium on which a computer's OS is installed.

### Step 1

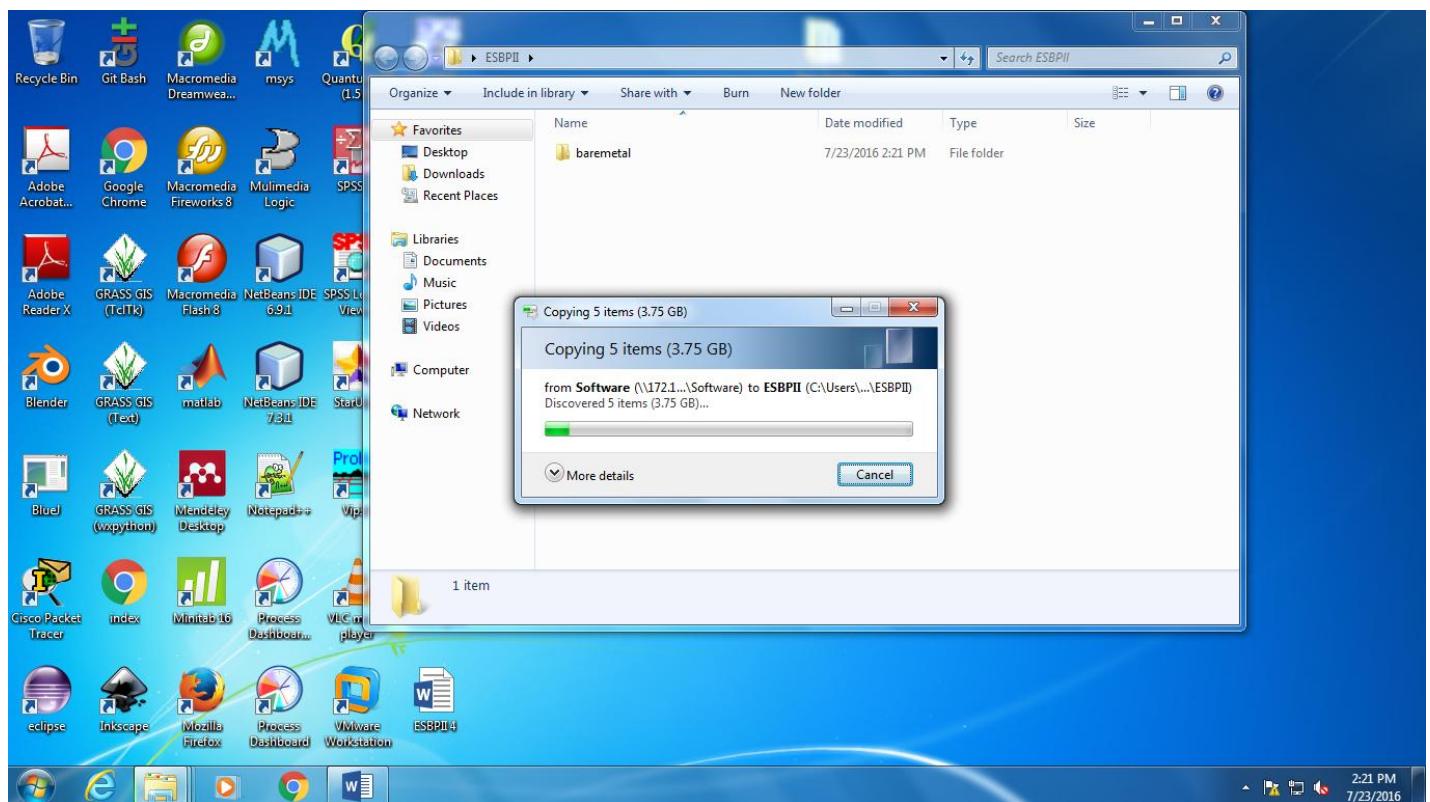
Access public drive to get the Bare Metal Software





## Step 2

Create a folder in desktop and copy the Bare Metal Software in to that Folder



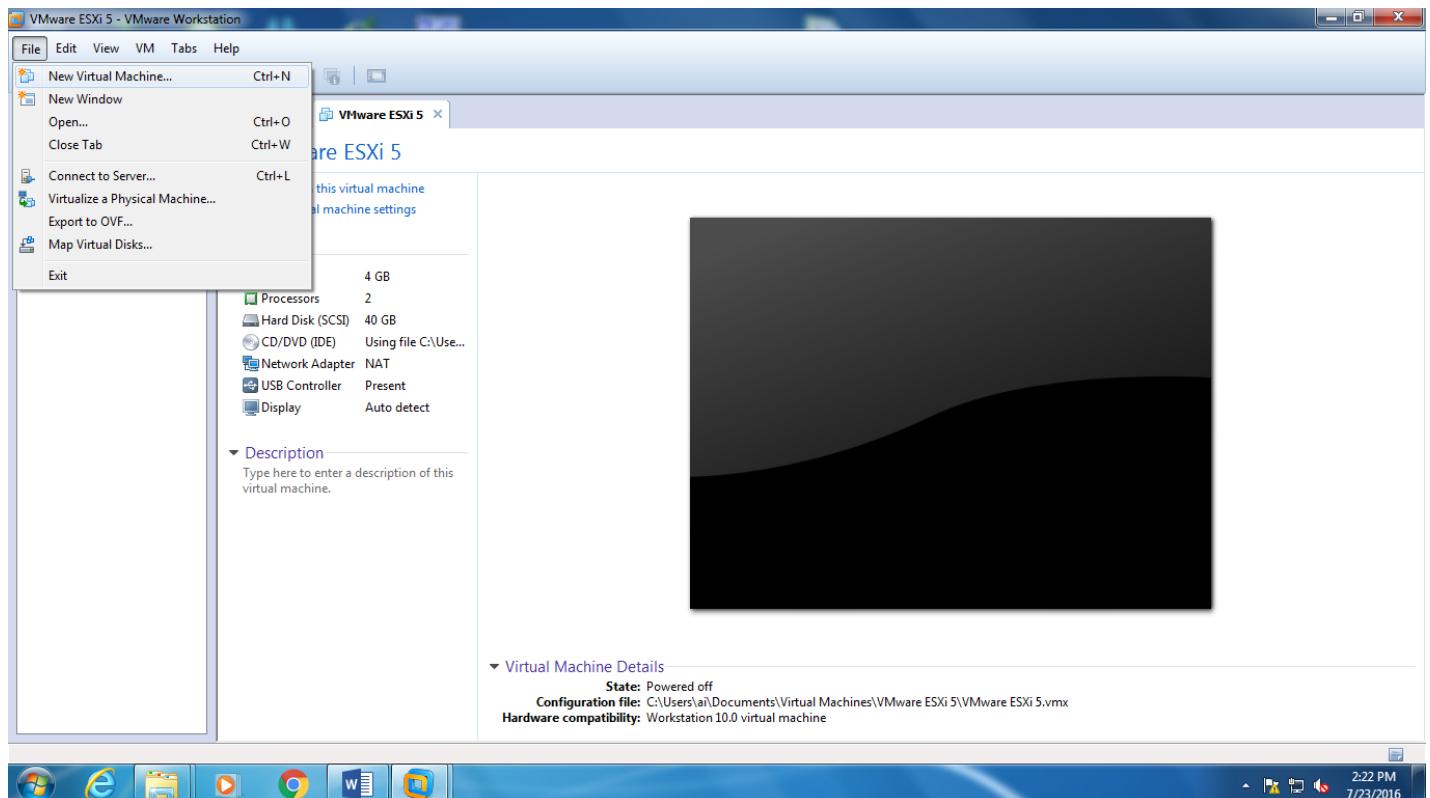
## Step 3

After Copying the software then we want to open the VMware Workstation



#### Step 4

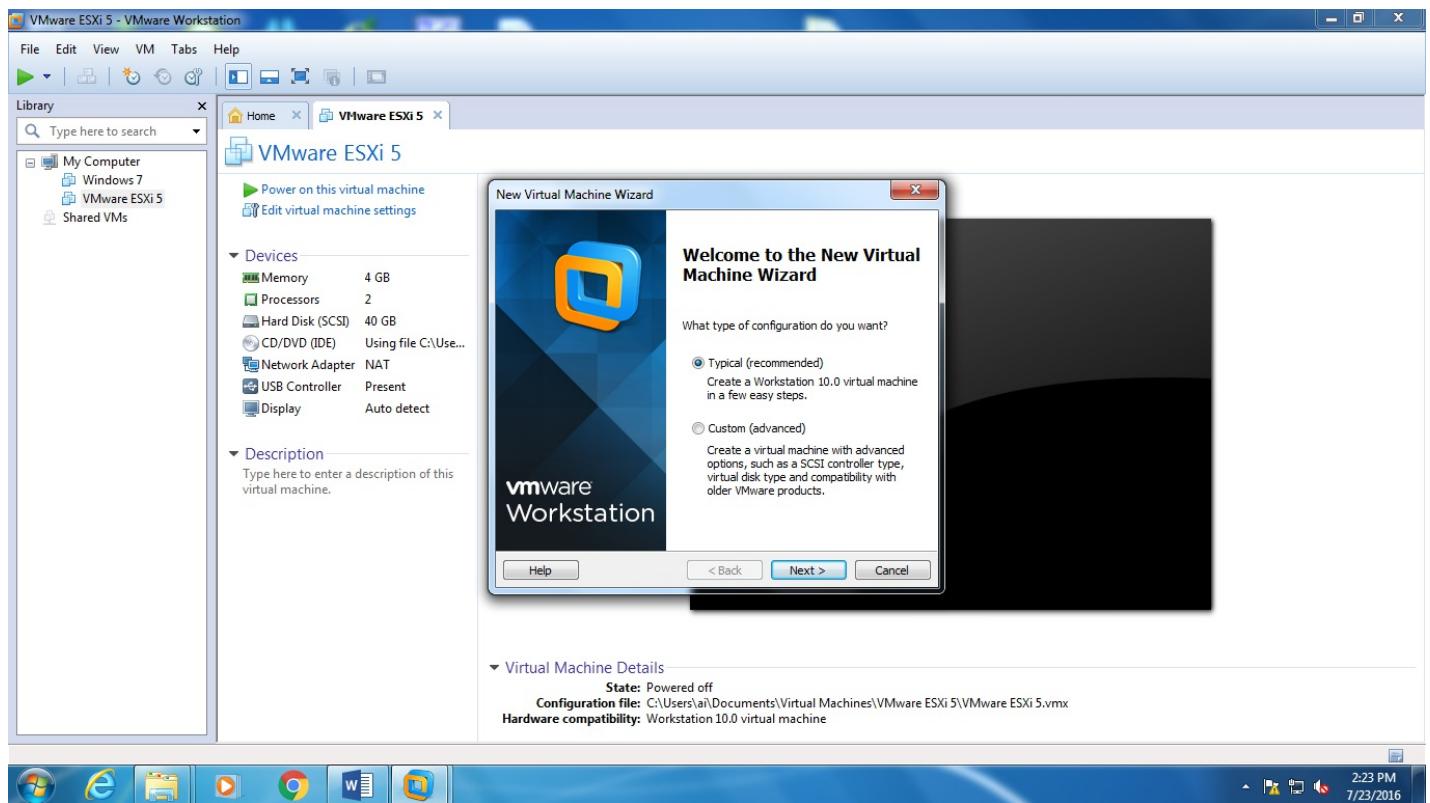
Select File --> New Virtual Machine



#### Step 5

Then It will Appear New Virtual Machine Wizard.

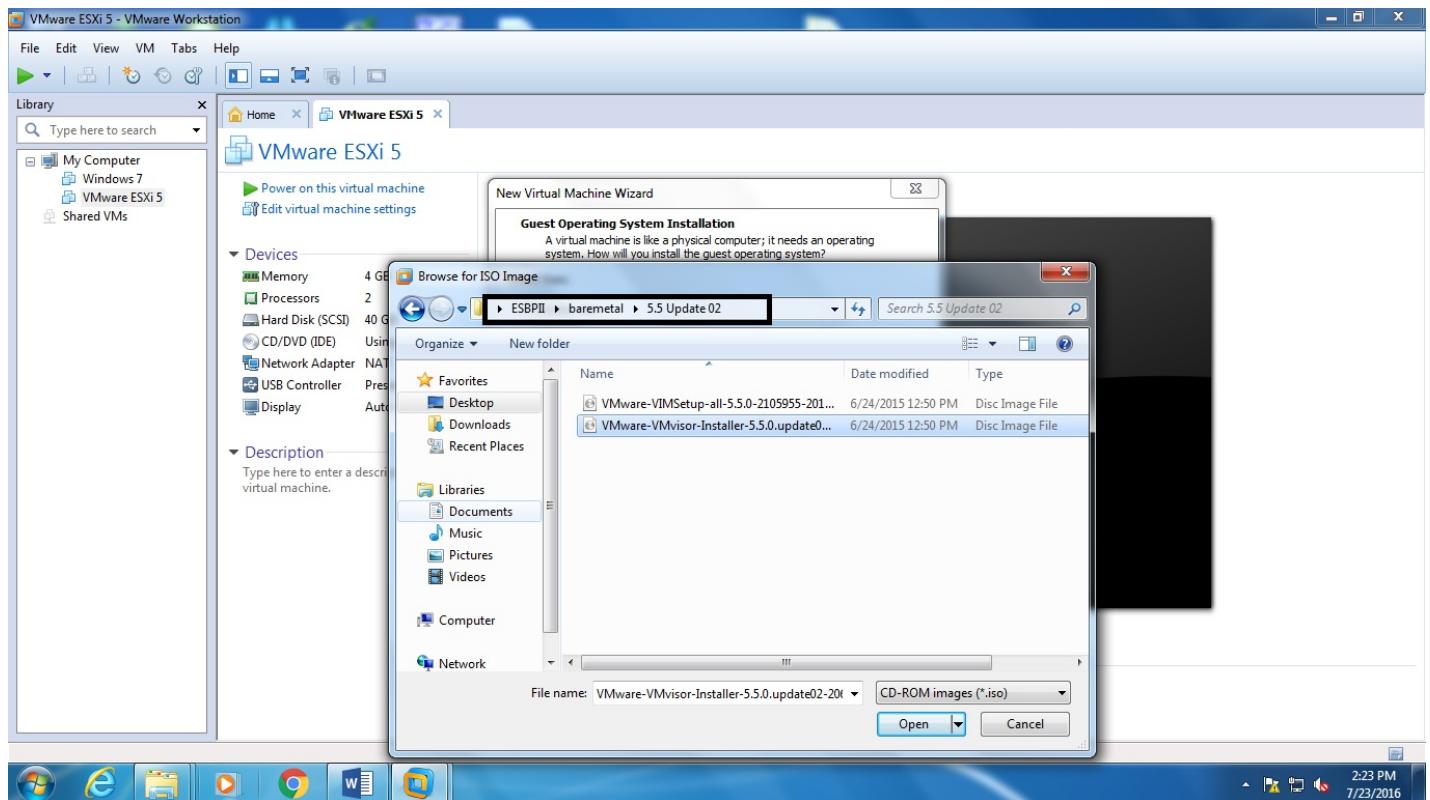
Select Typical as Type of Configuration and Select next button.

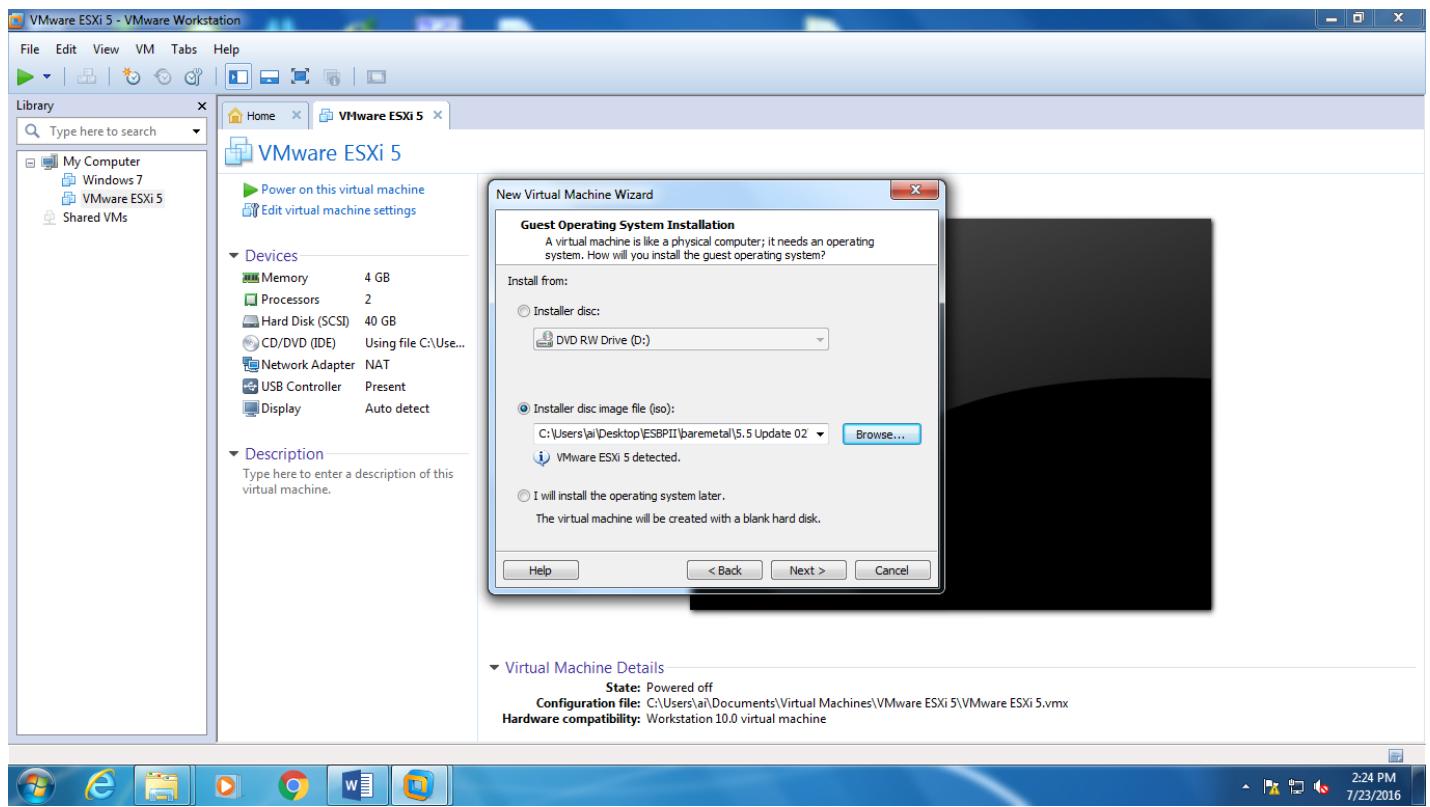


## Step 6

After clicking by the next button it will ask us to select Guest operating system to install.

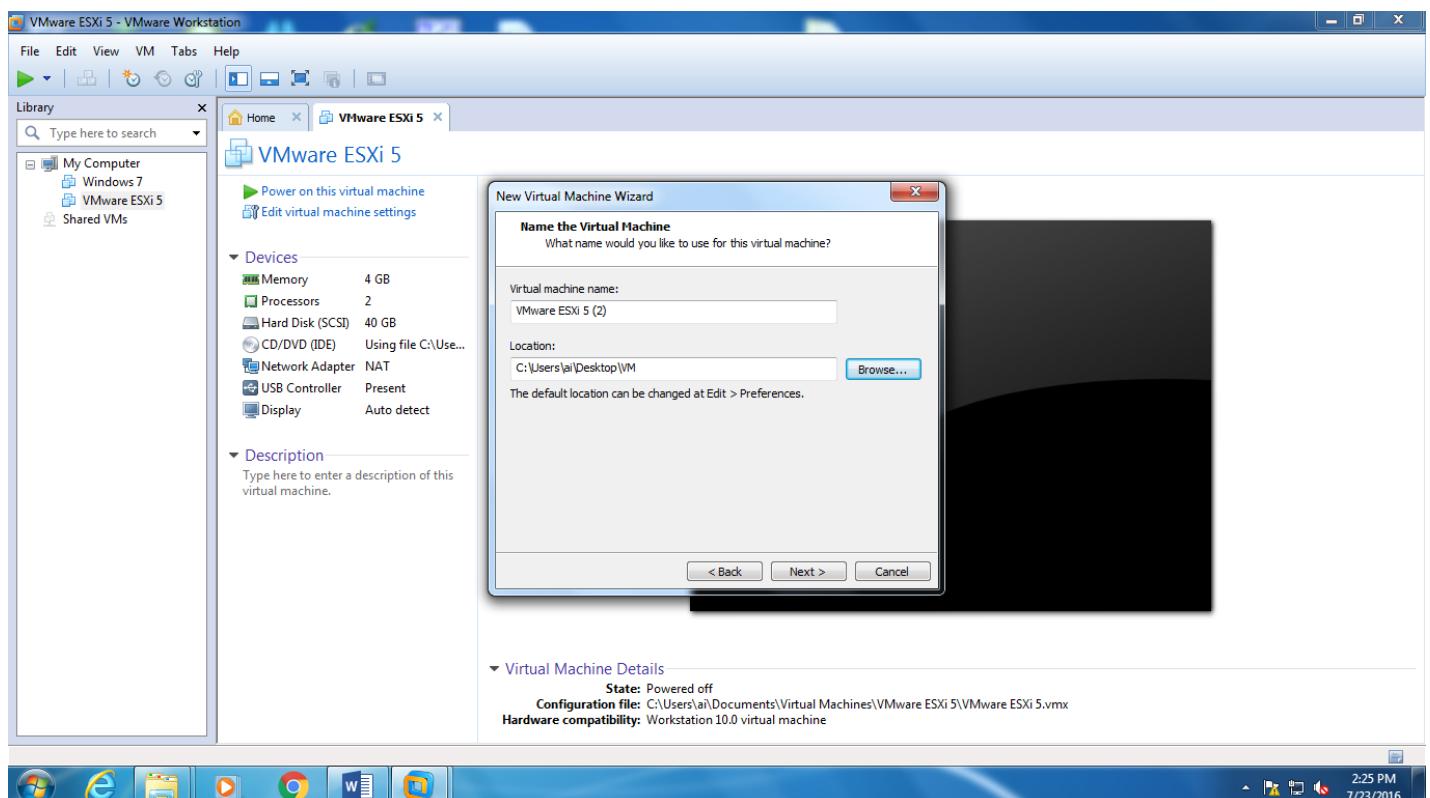
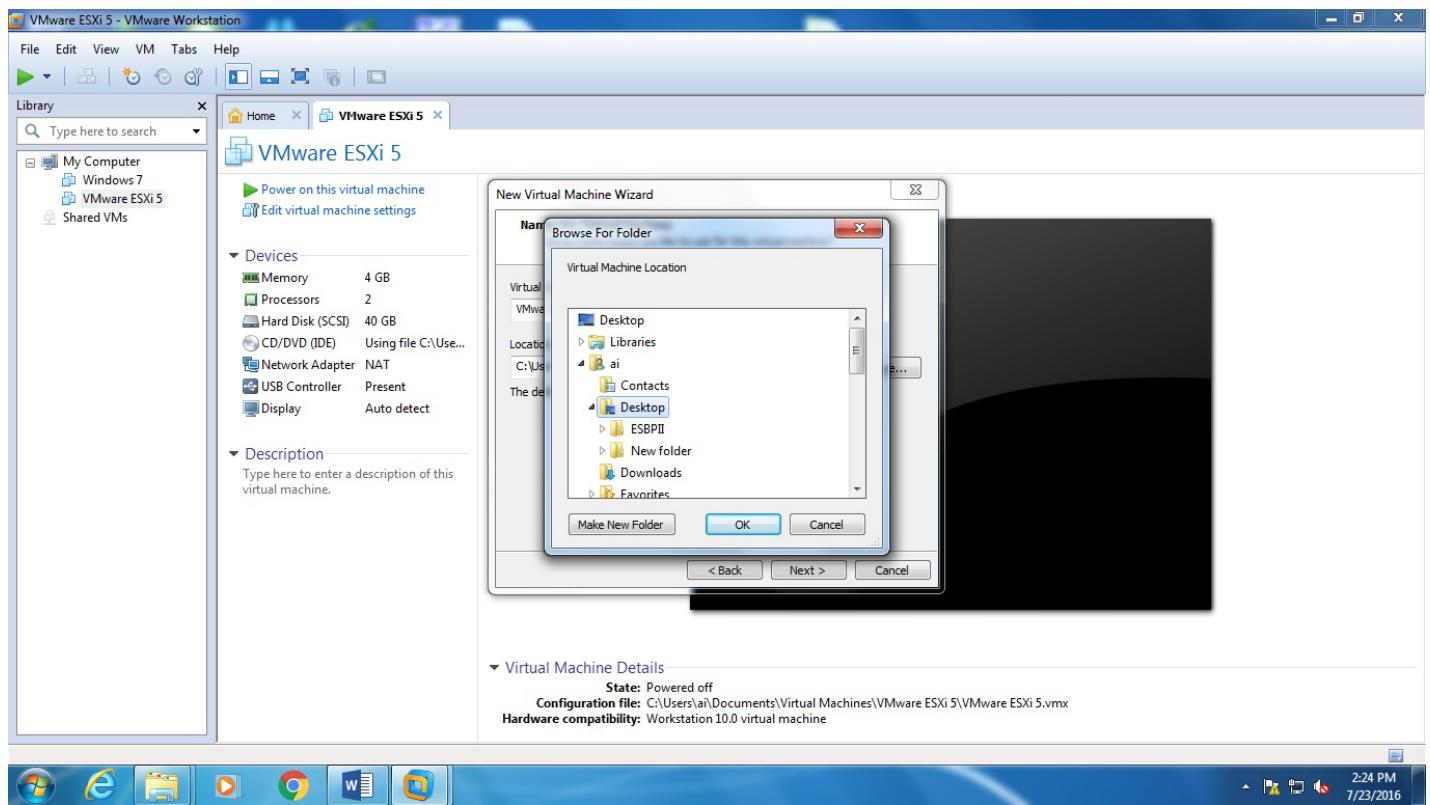
to do that we have to browse the software which we copied for the folder we created early. and select the updated software to install. and Click next to go further steps





## Step 7

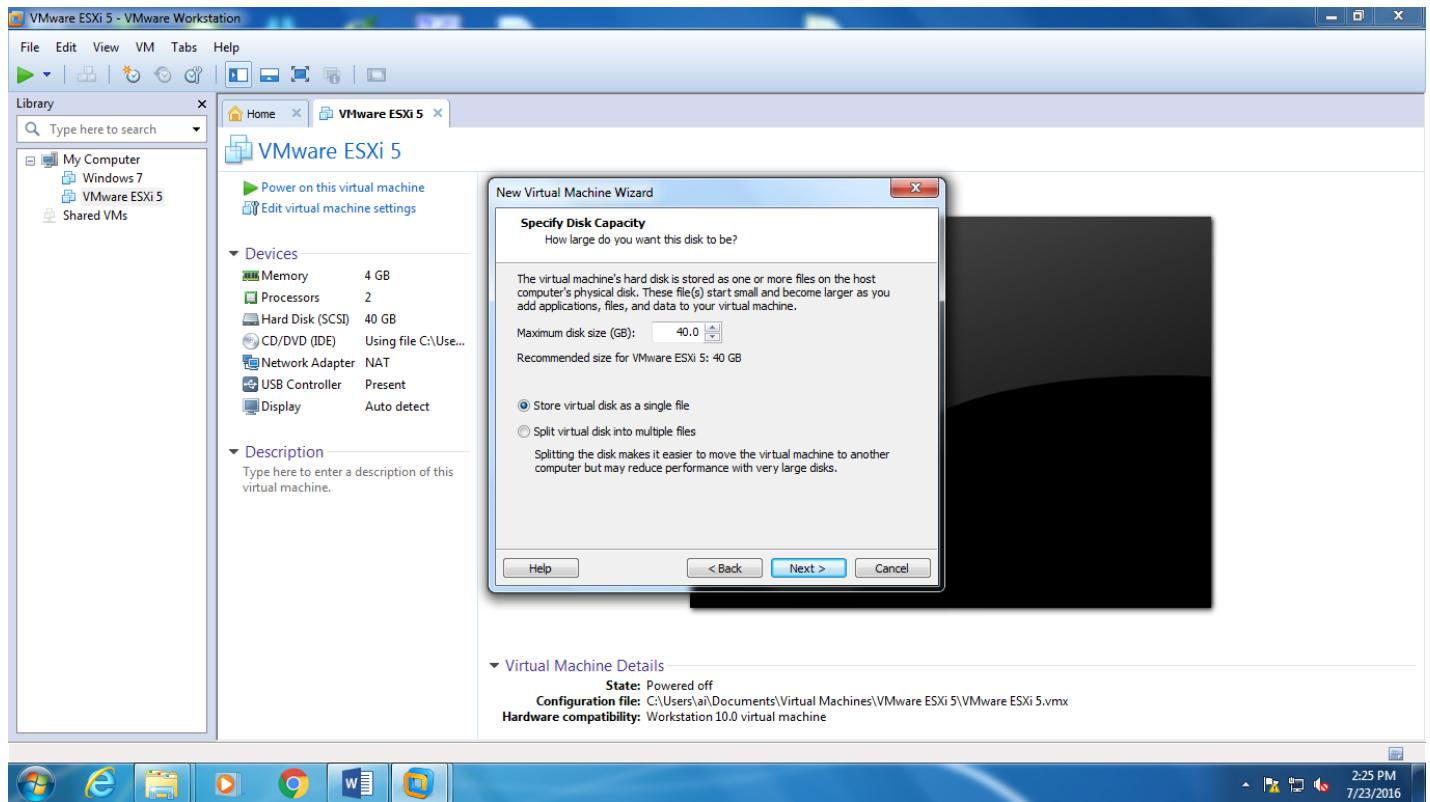
Give the Virtual Machine Name and the Location to install the virtual machine



## Step 8

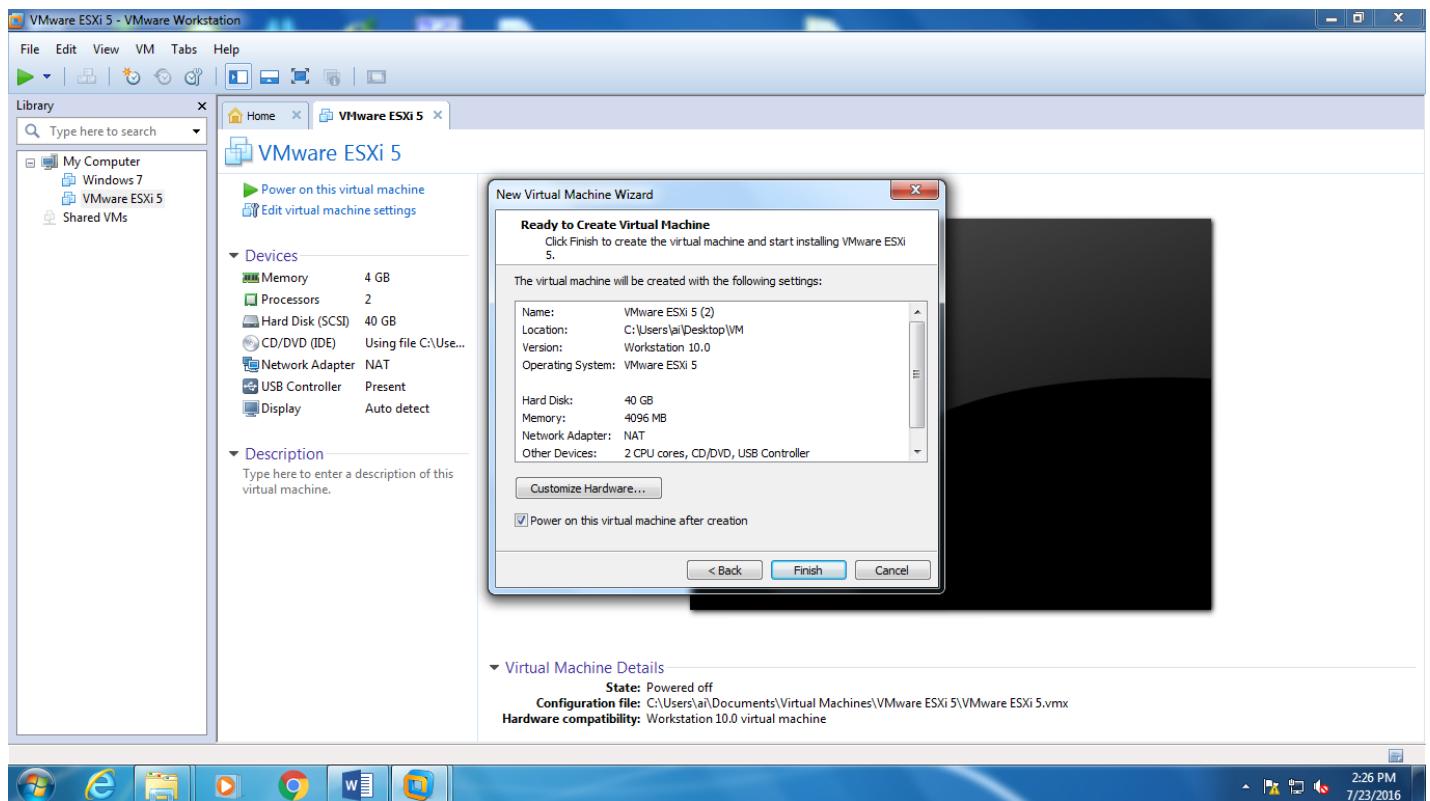
Then we have to specify the disk Capacity. give the disk capacity as 40GB.

And Select the **Store Virtual Disk as Single file** option. and click next button



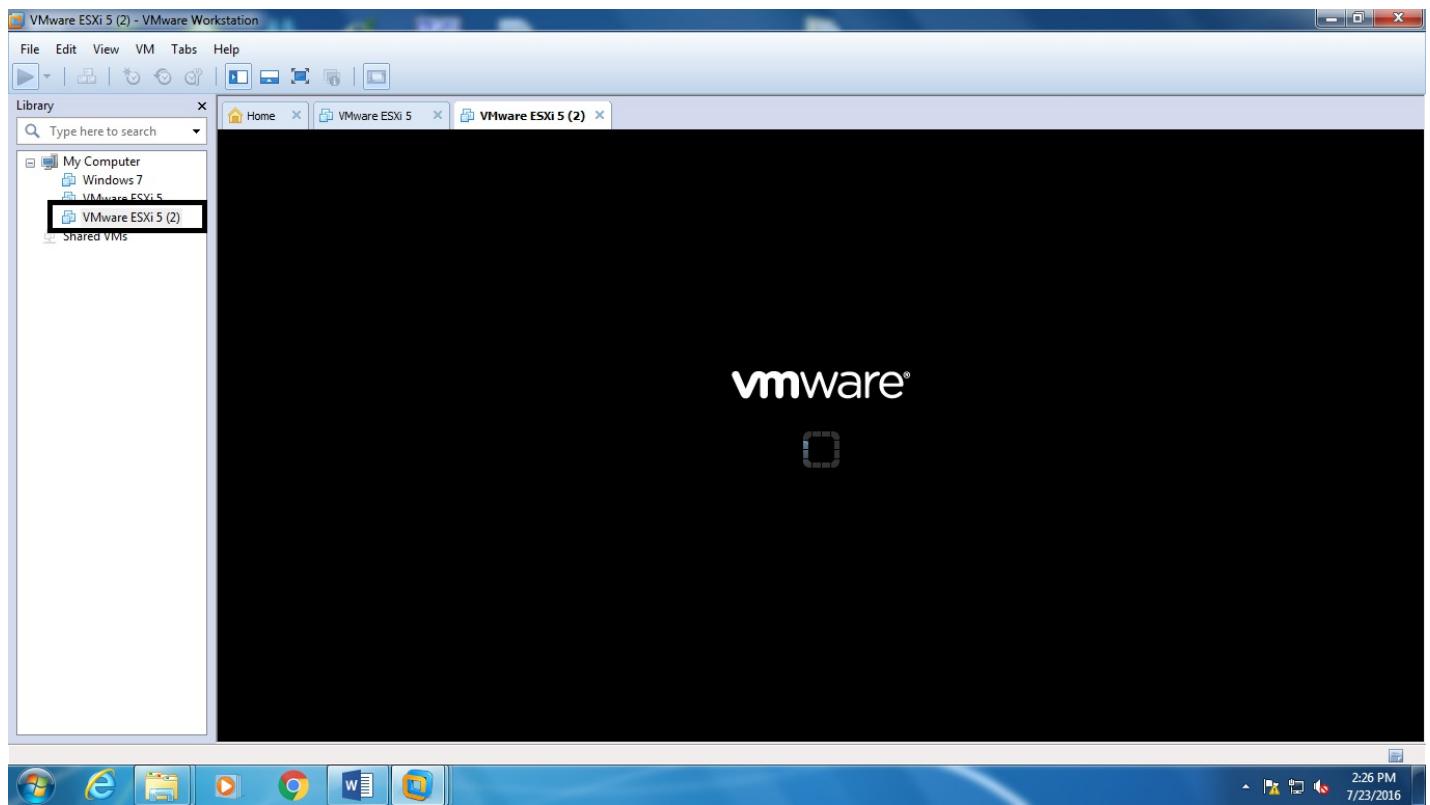
## Step 9

Click Finish button to create virtual machine and Start Installing VMware ESXi 5

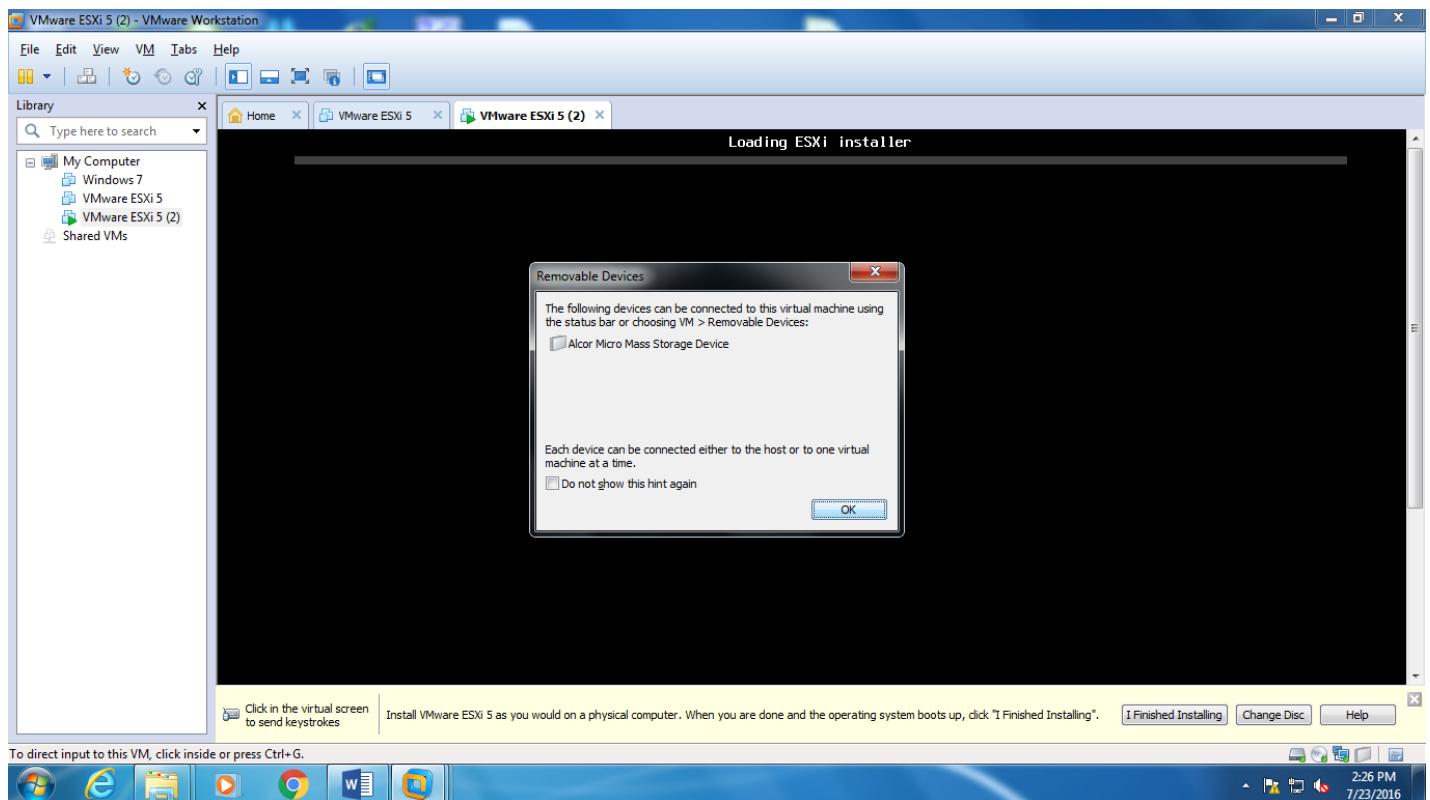


## Step 10

then it will appear VMware ESXi 5 console window

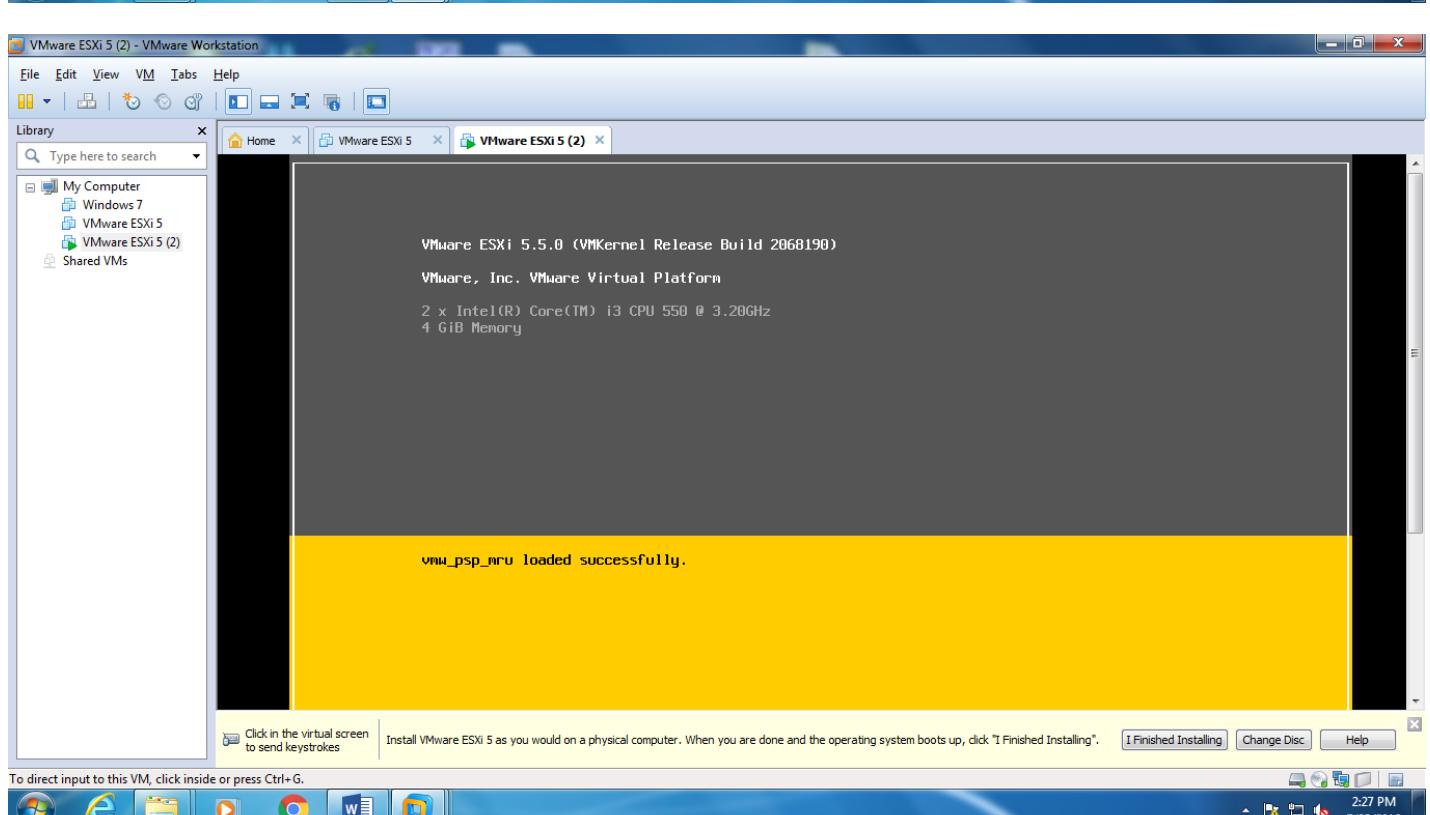
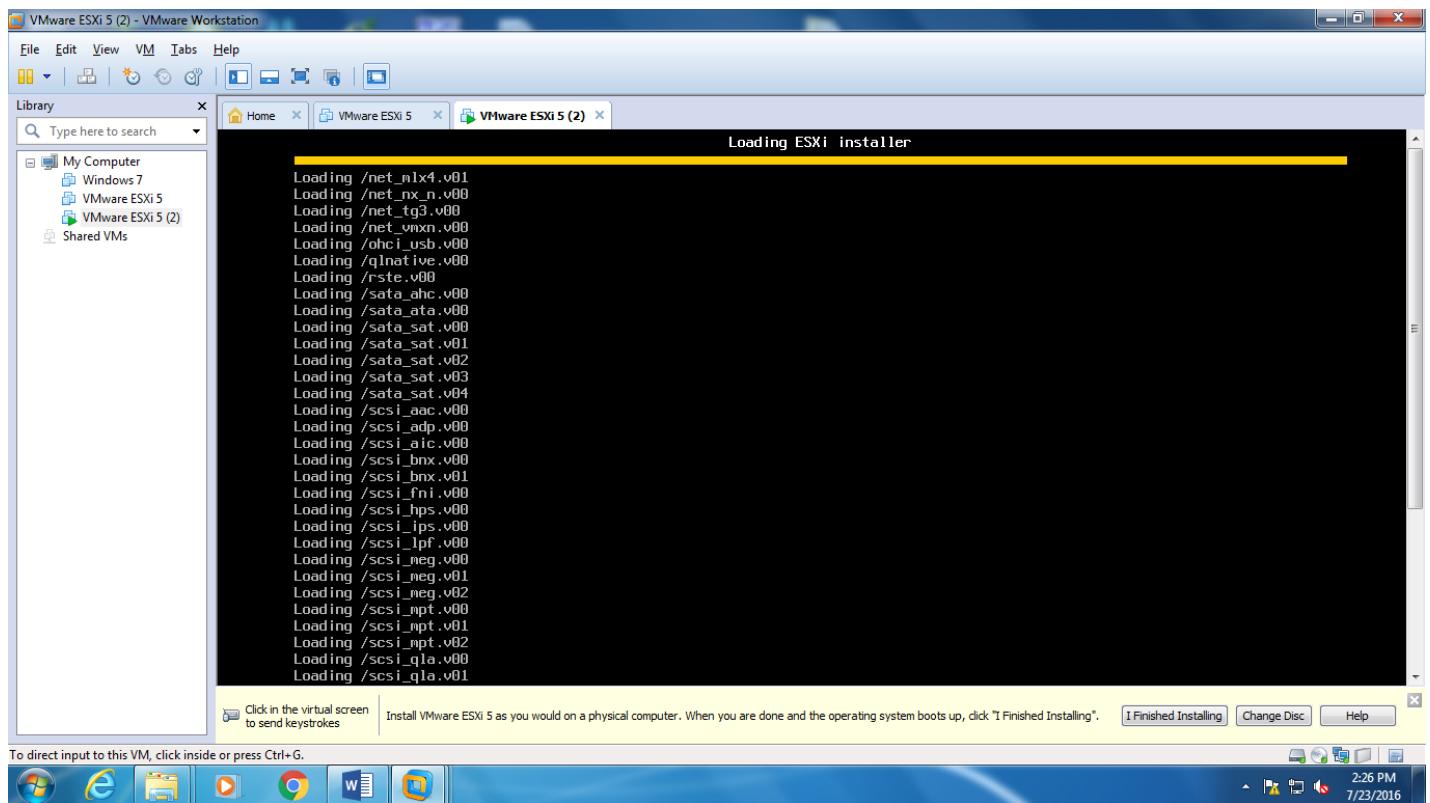


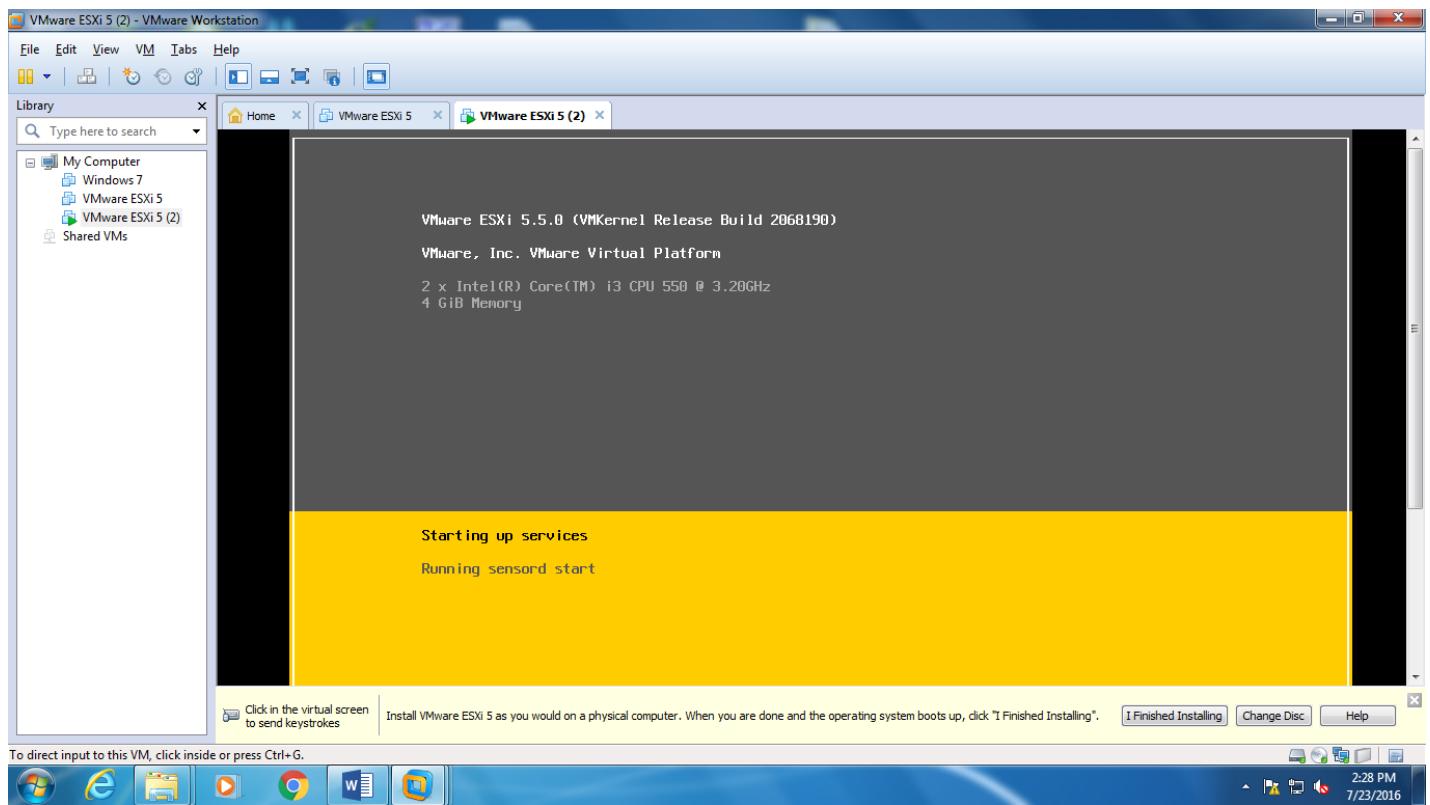
and it ask about the removable disk alert message. click ok to go next



## Step 11

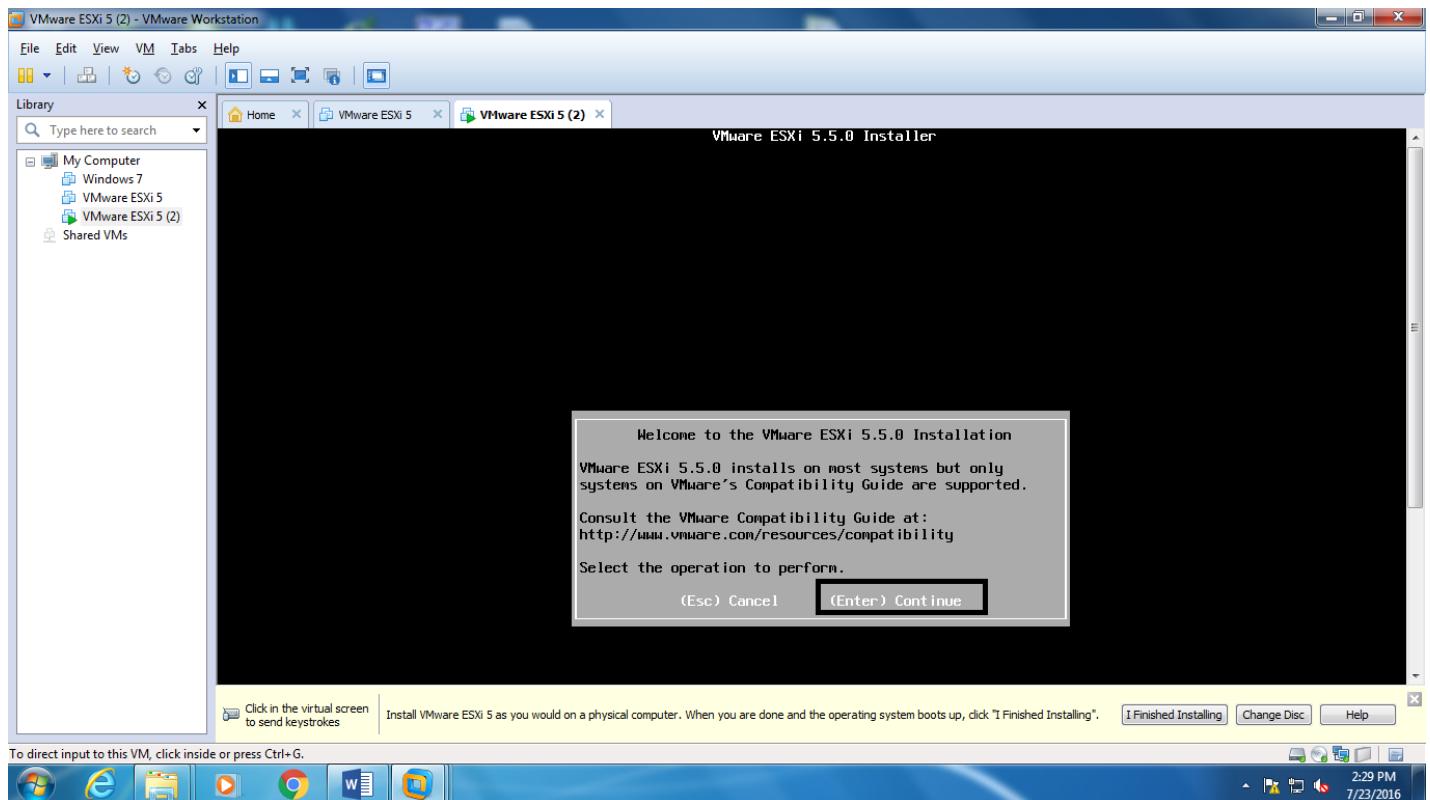
After that it will load the VMware ESXi installer.





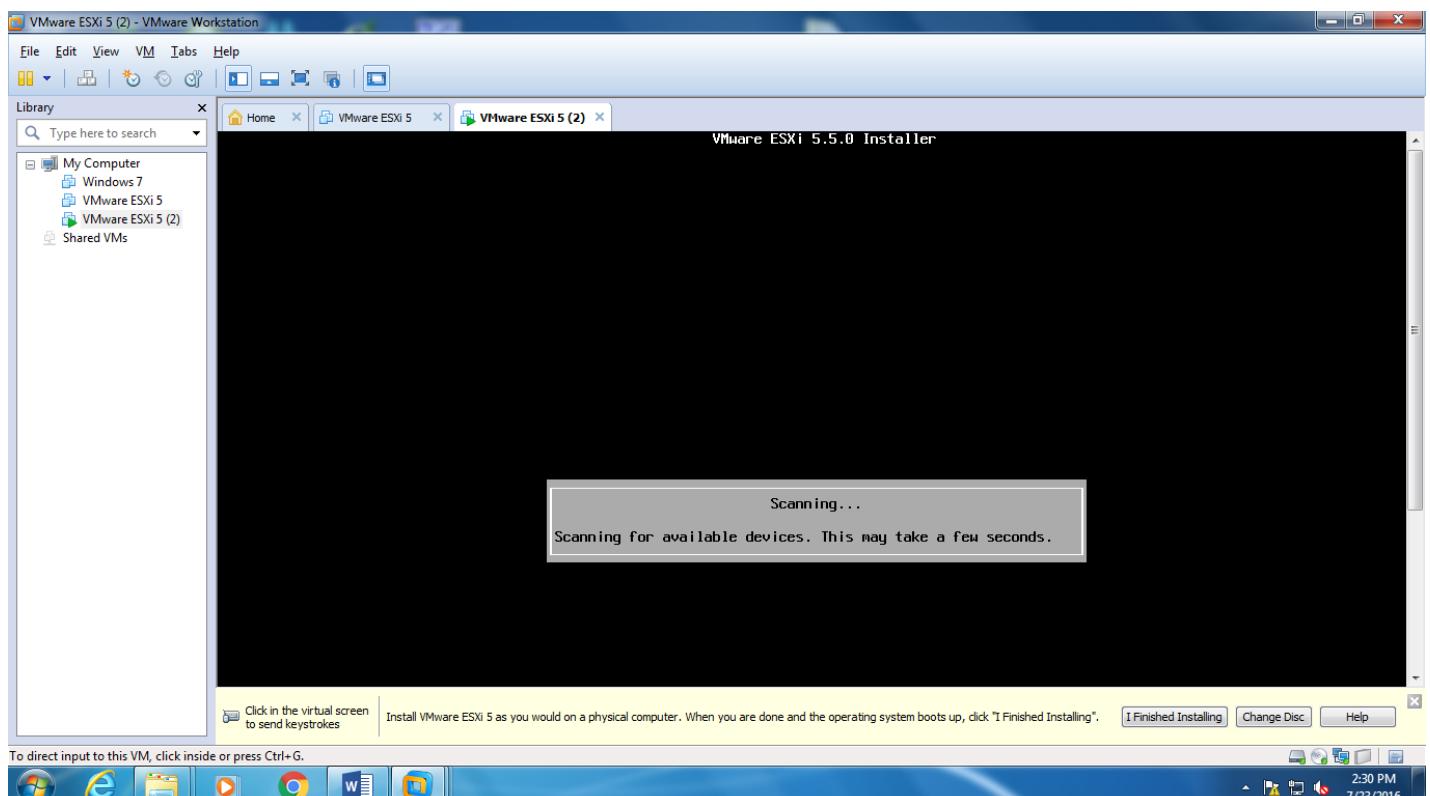
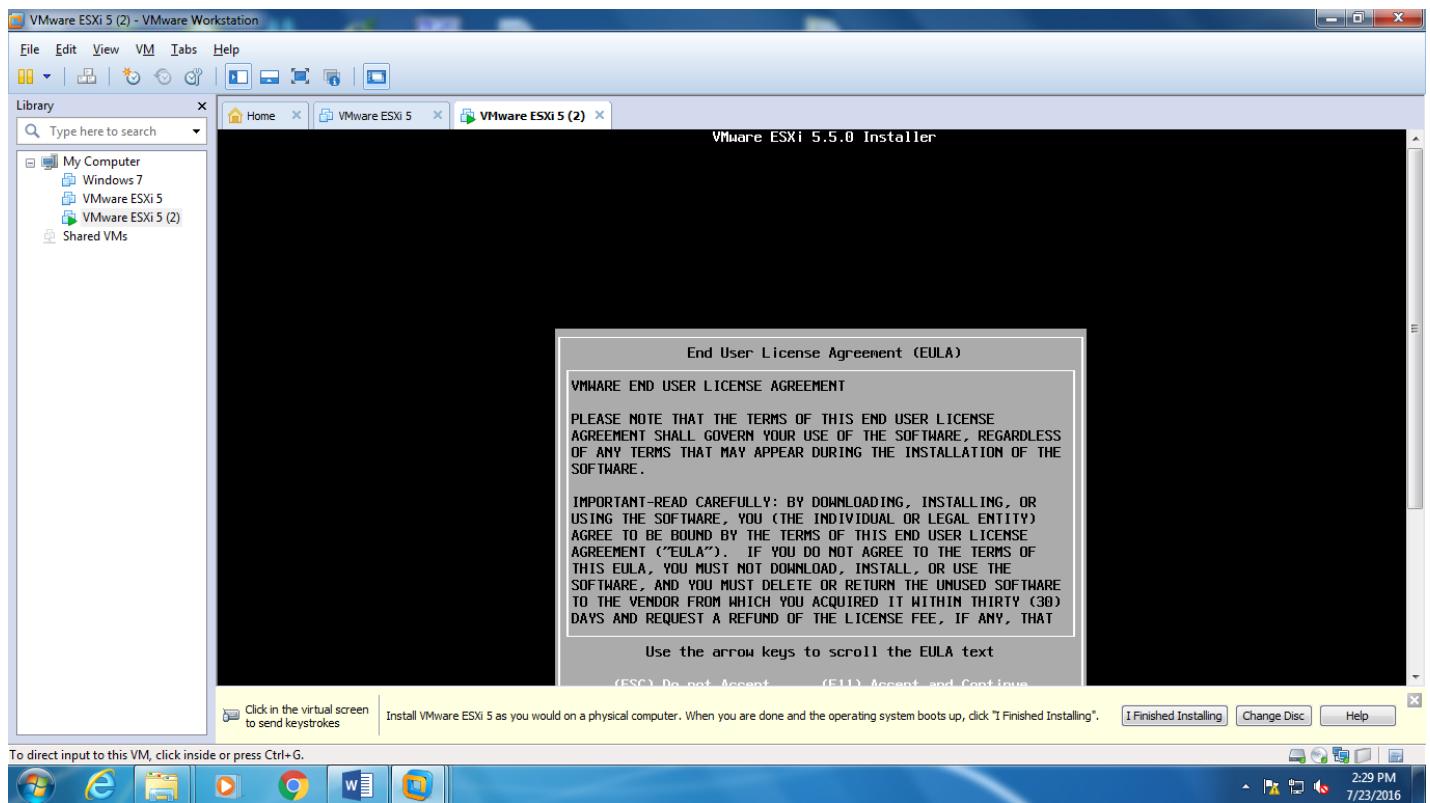
## Step 12

Then we have to put enter to continue



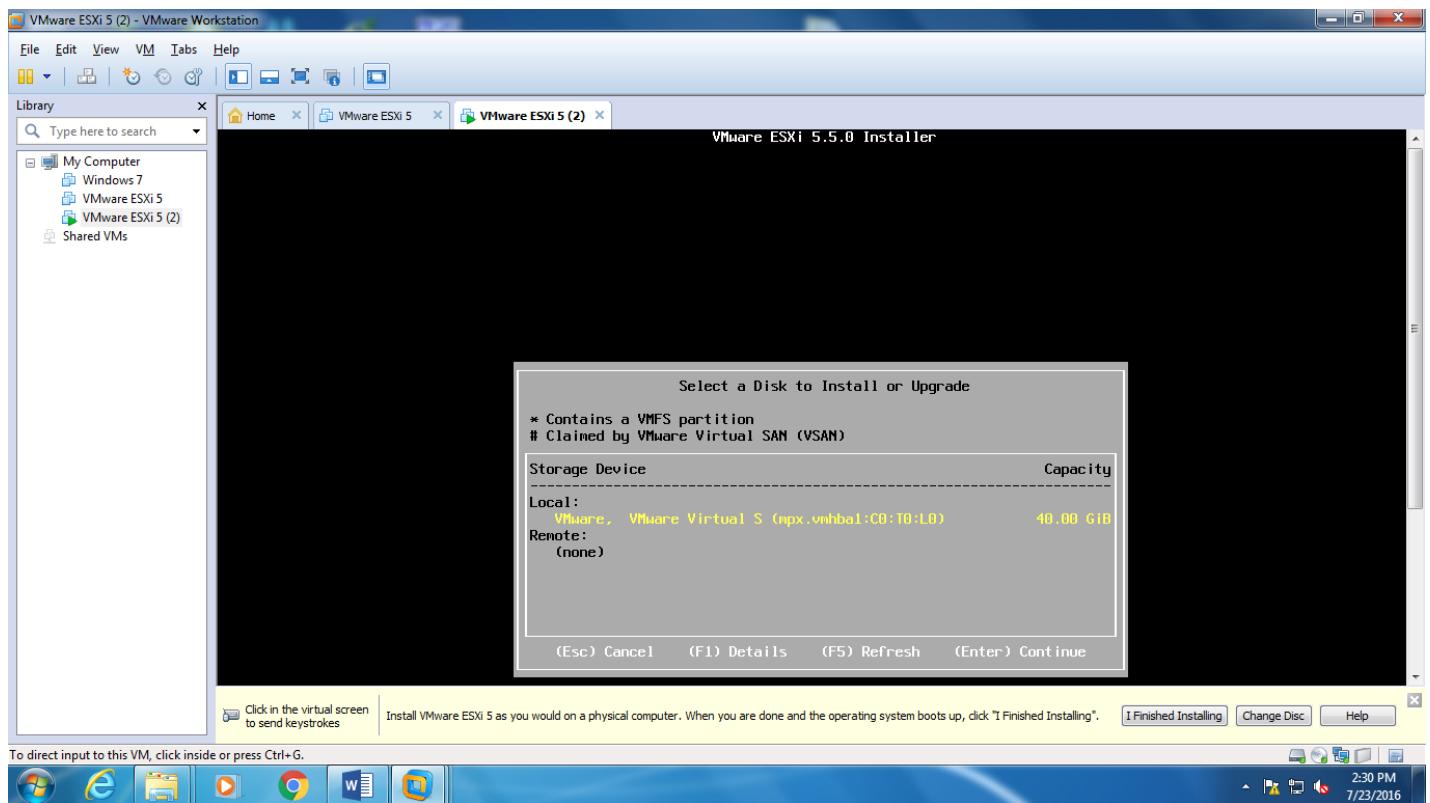
## Step 13

Then End User License Agreement message Will Appear. Then Click F11 to accept and Continue



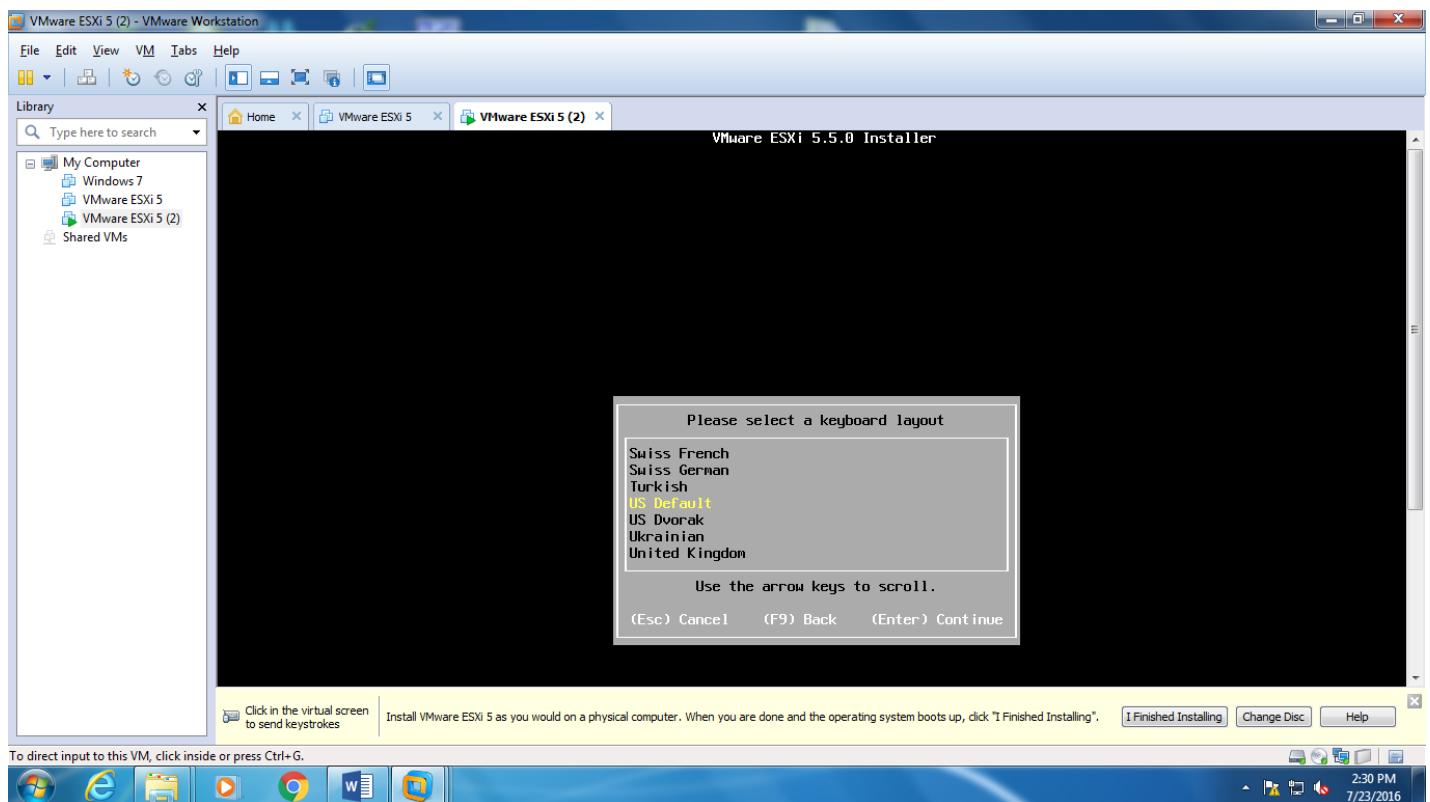
## Step 14

After that Press enter to continue



## Step 15

Select **US default** as key board layout and enter to continue



## Step 16

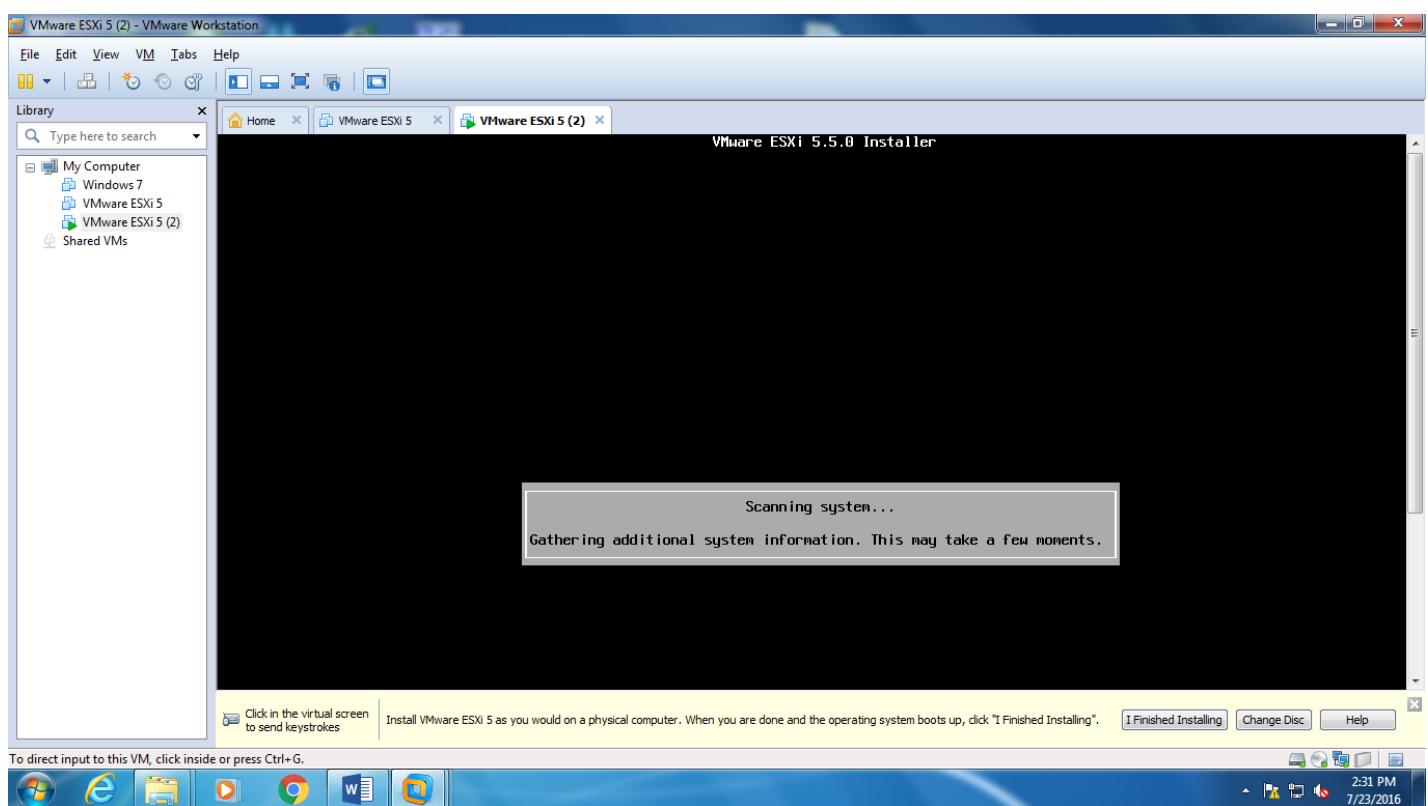
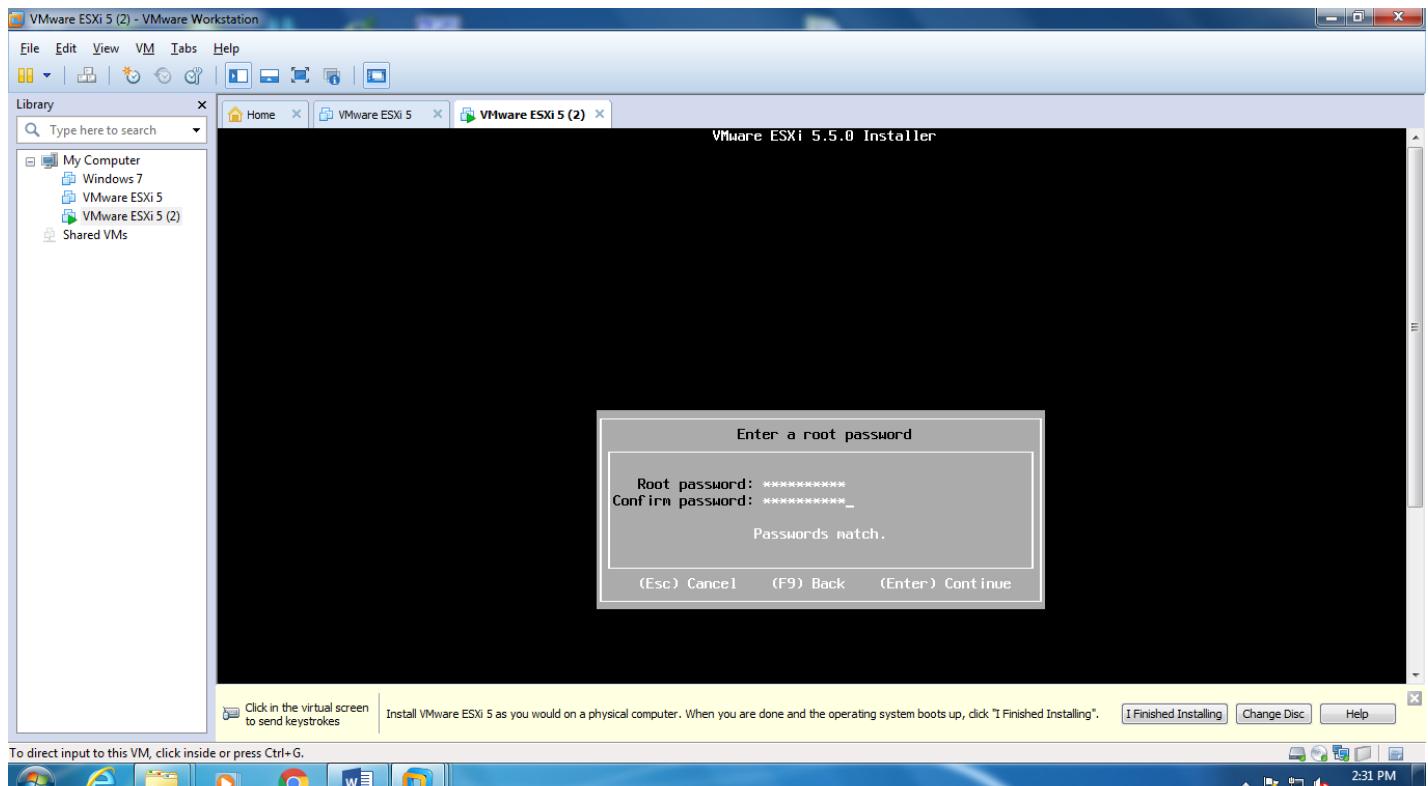
Then we have to give credentials

For our scenario

UN : esbpII@123

PW : esbpII@123

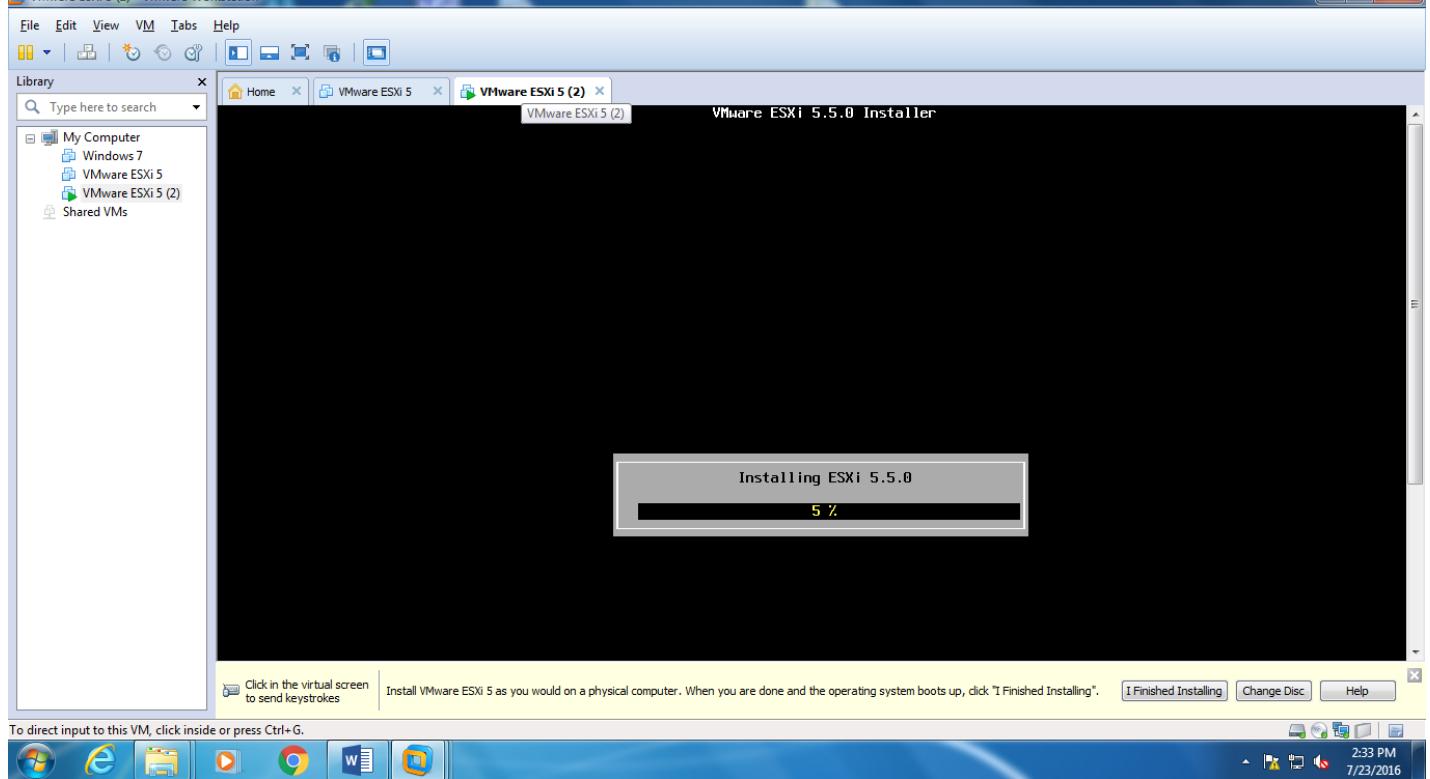
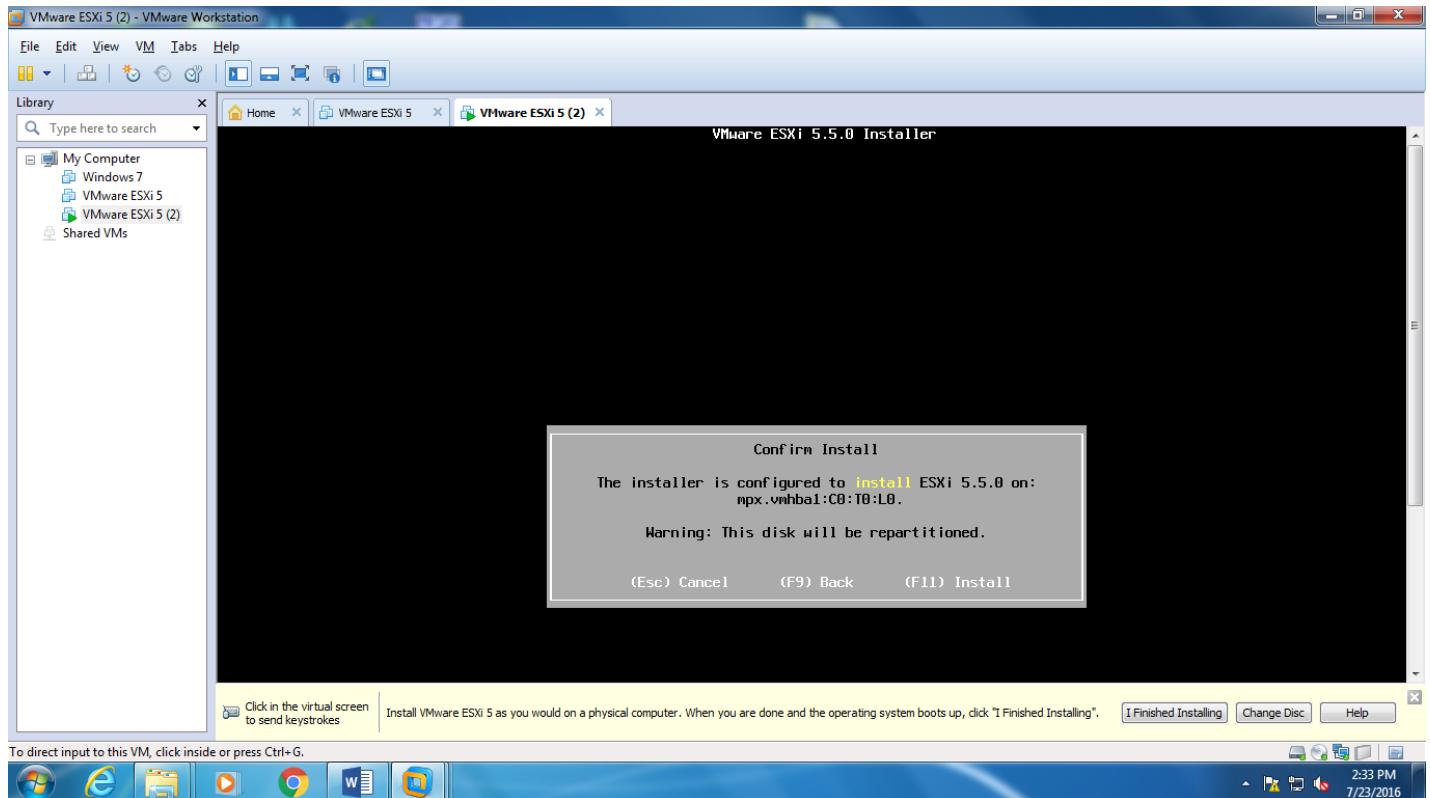
Then Click enter to continue



## Step 17

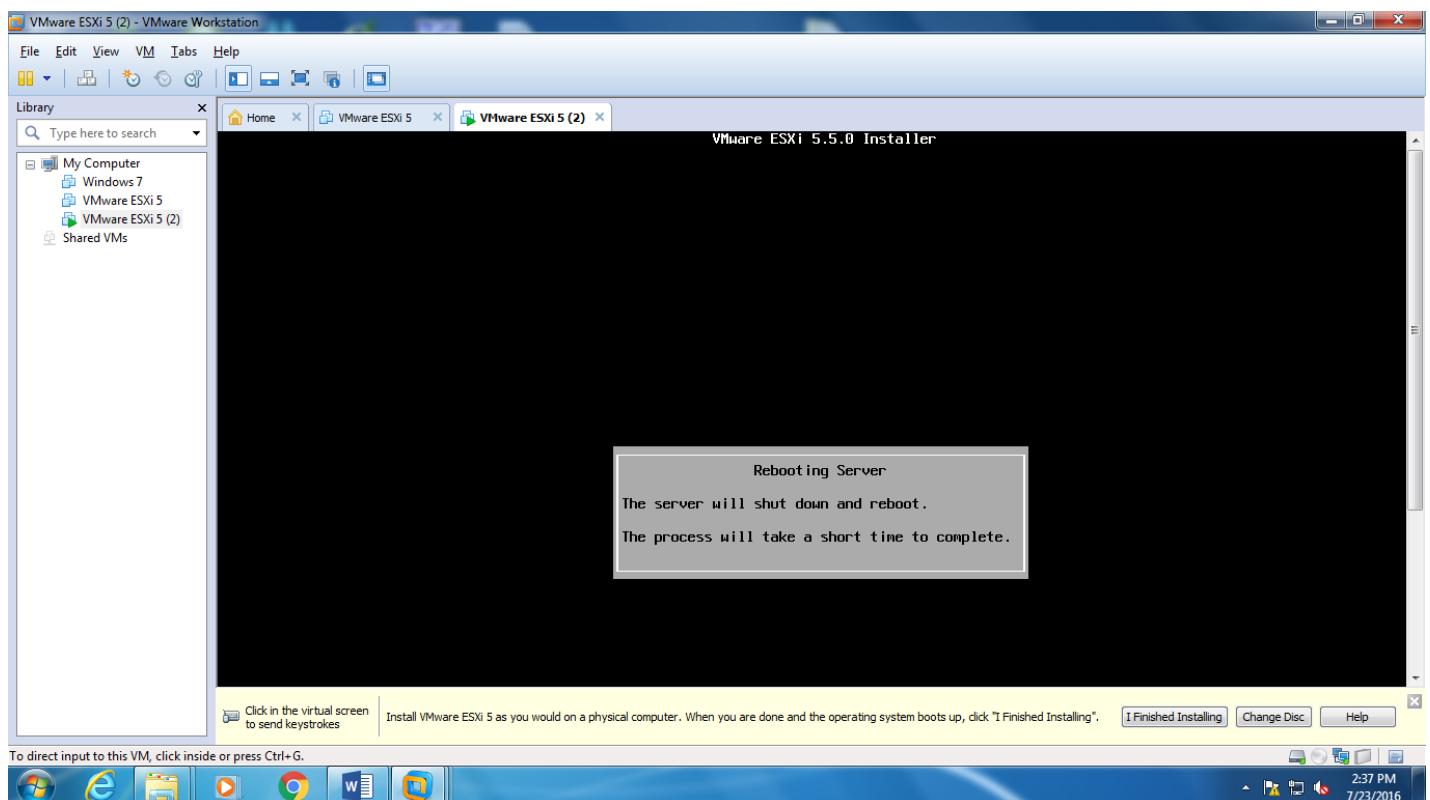
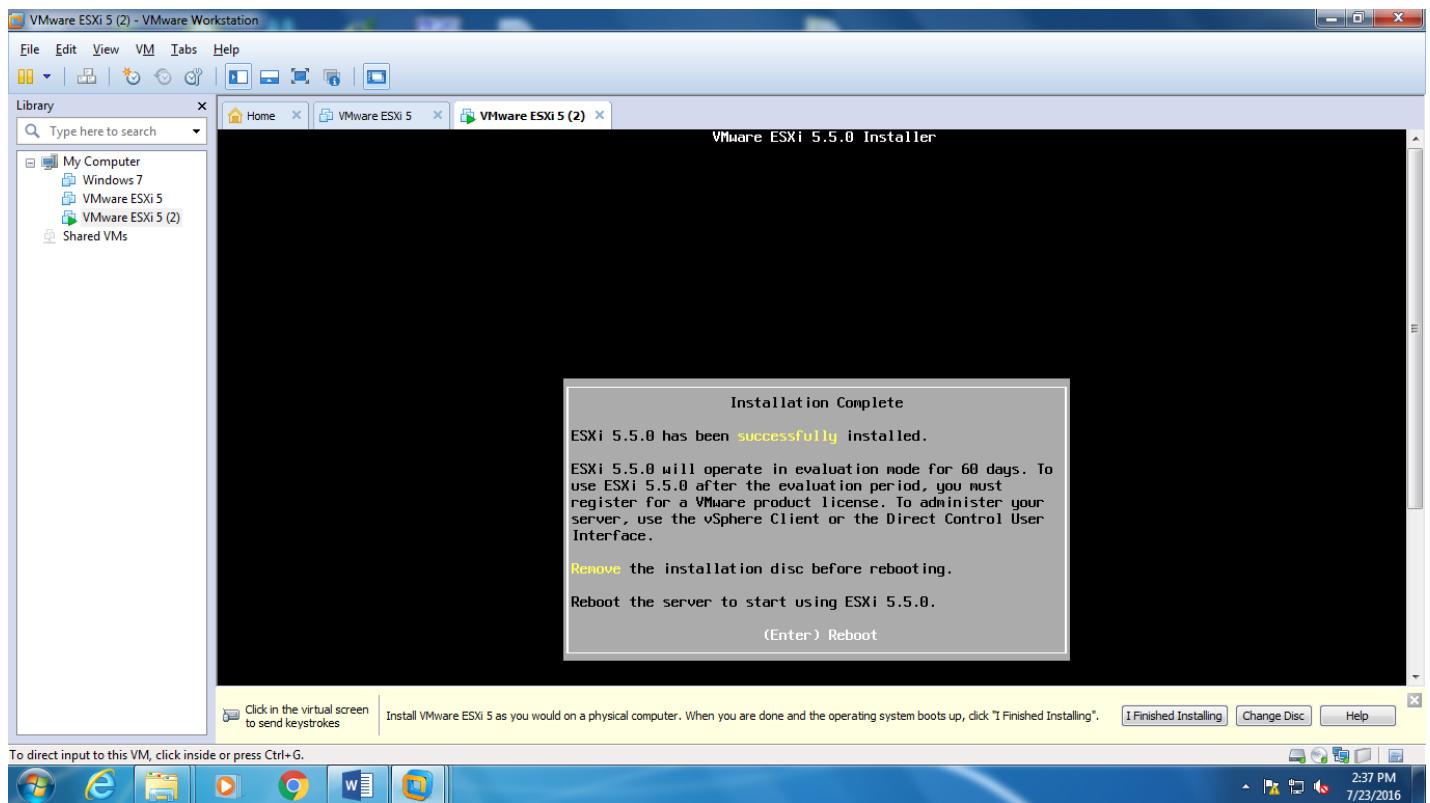
Then we have to confirm installation

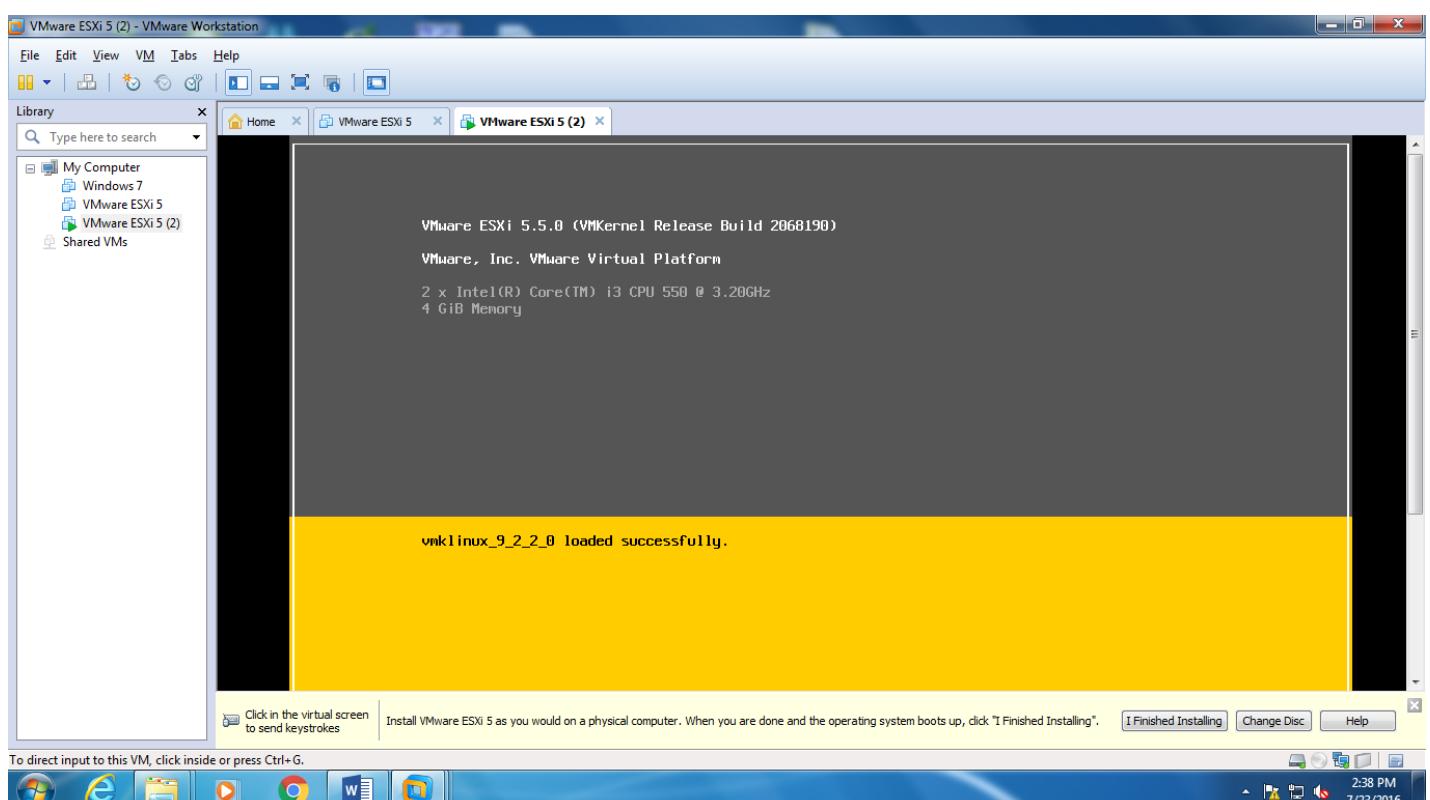
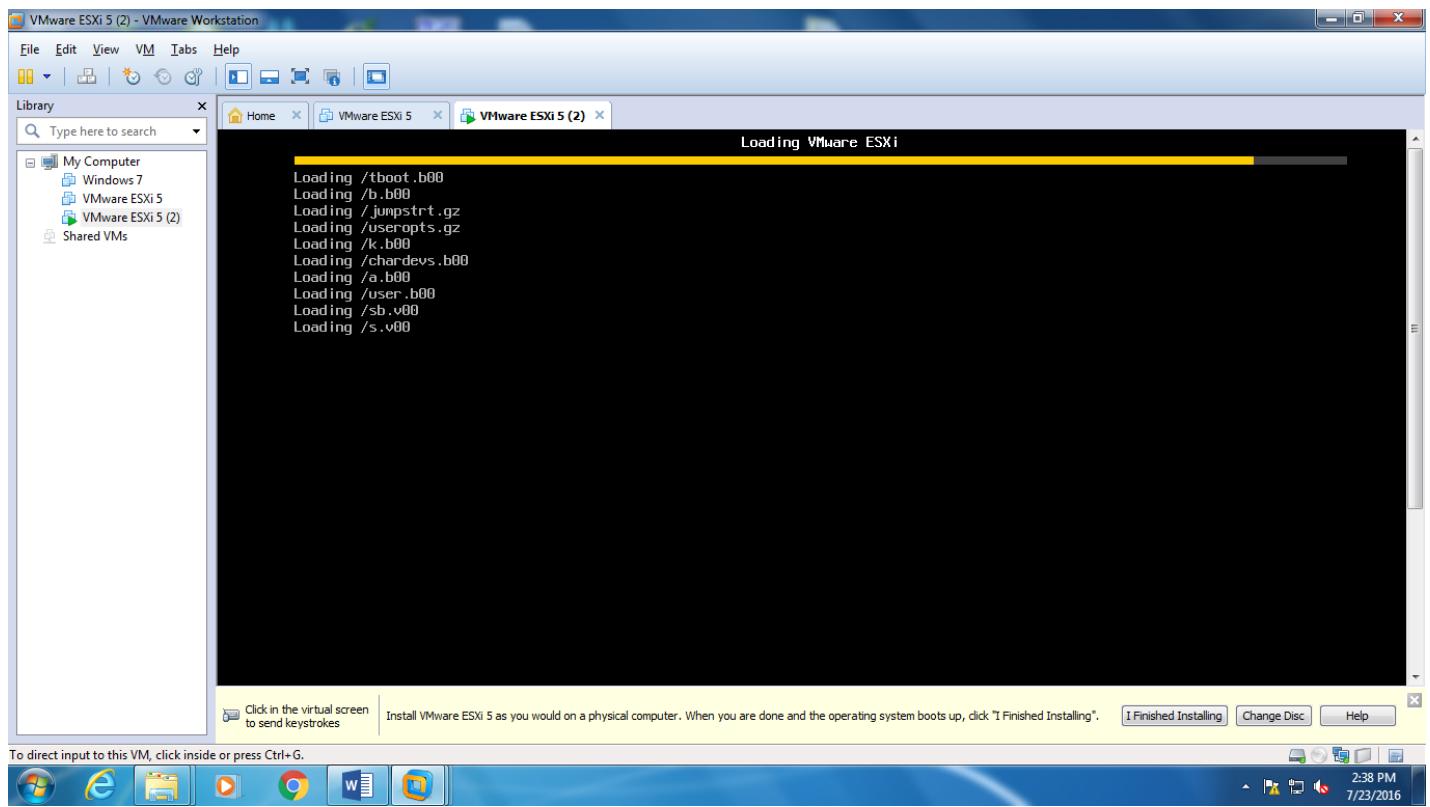
to do that we have to select F11

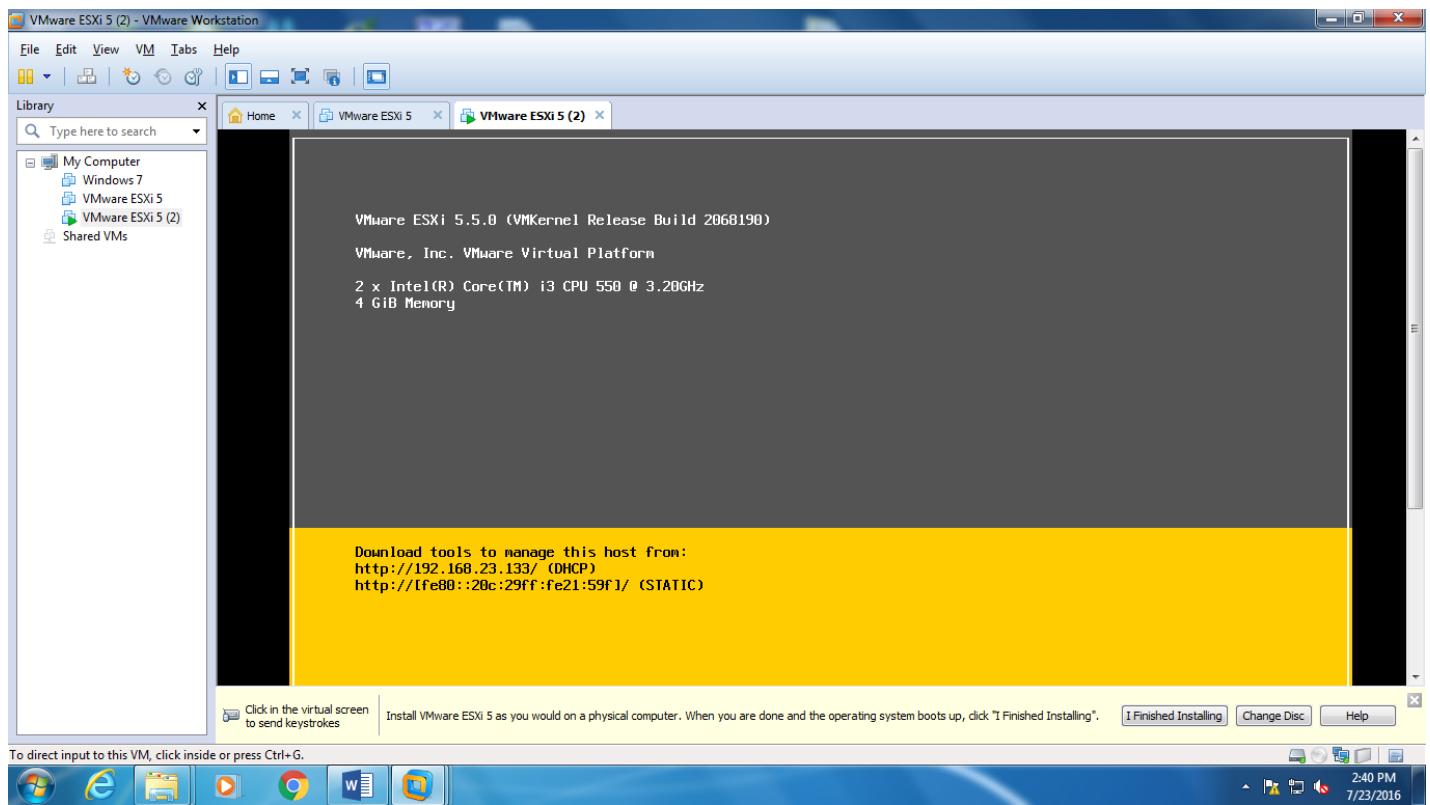


## Step 18

Then press enter to reboot.

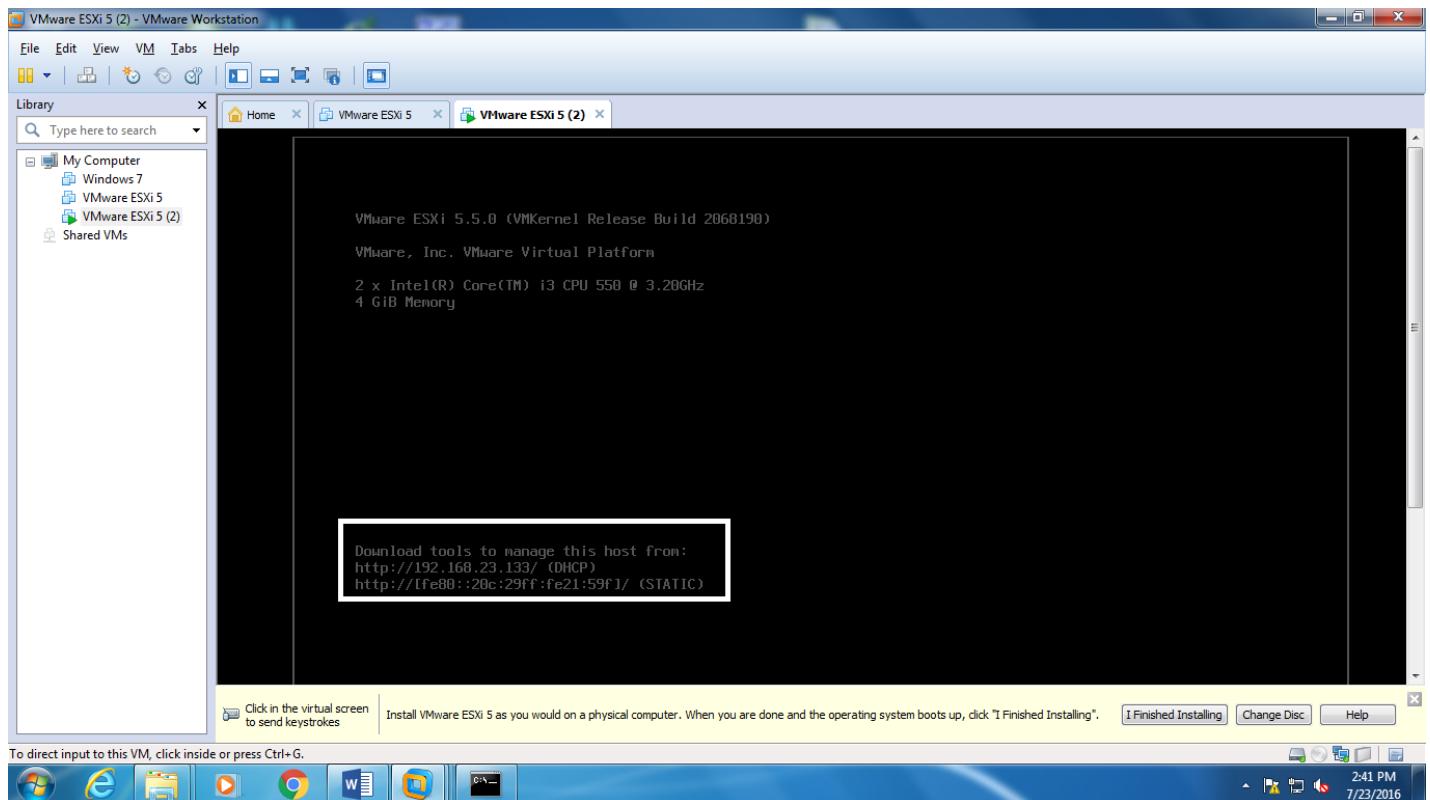






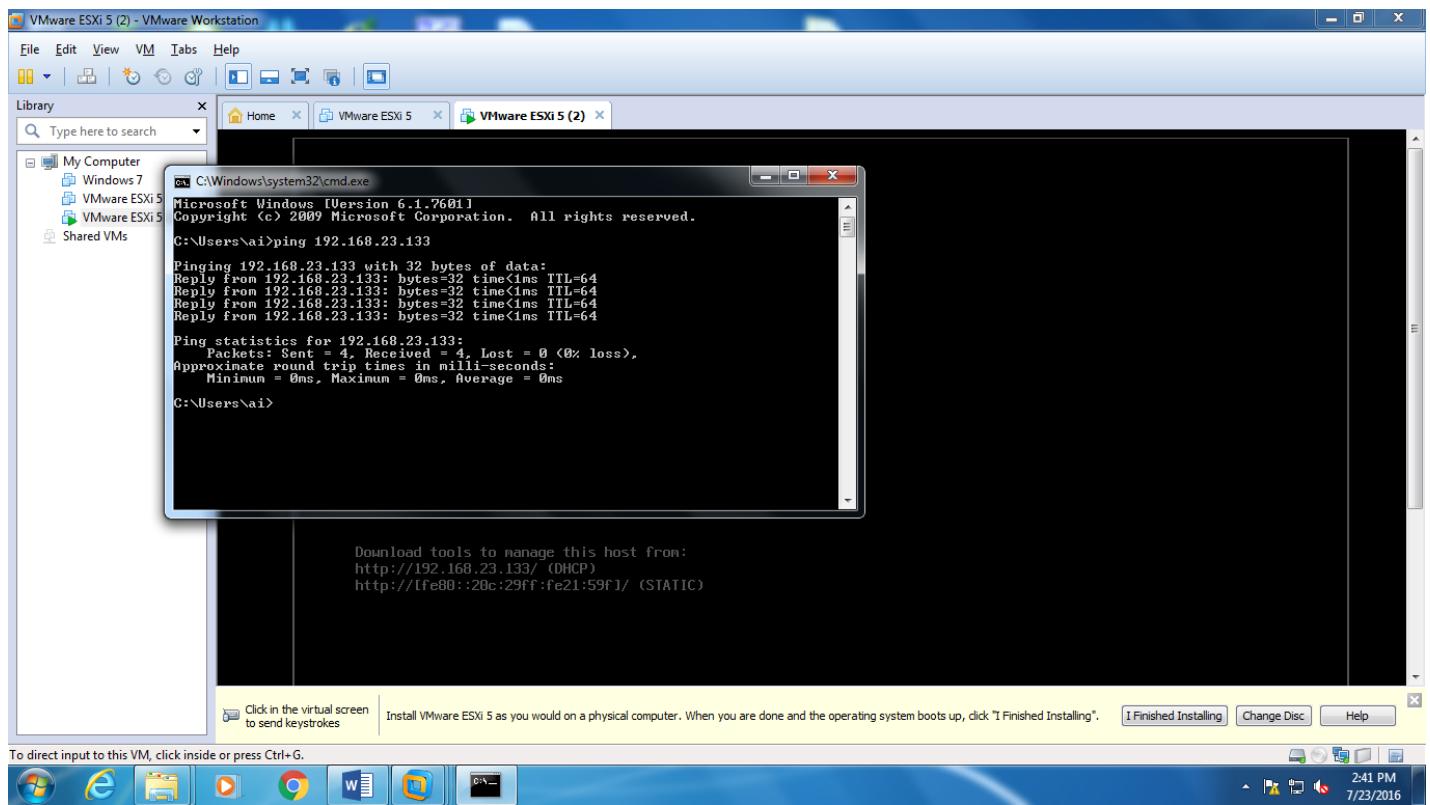
## Step 19

When we successfully installed the VMware ESXi 5 it gives us the ip address for the server which we can download the management client.



## Step 20

To check the our vmware server is up and running we can write ping commands in our commands line



## Step 21

Then we type our servers IP address on the URL and download the Vsphere Client

**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 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.

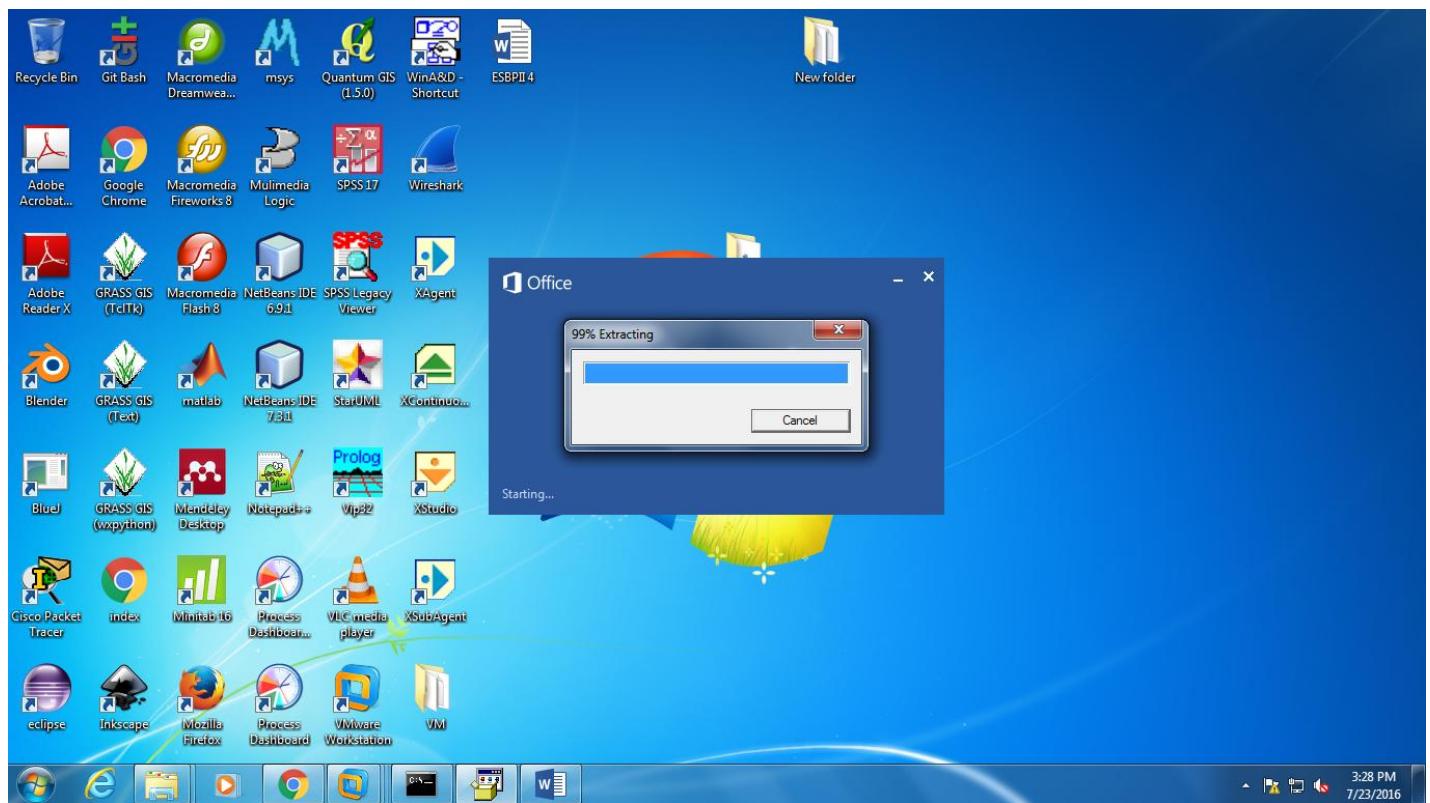
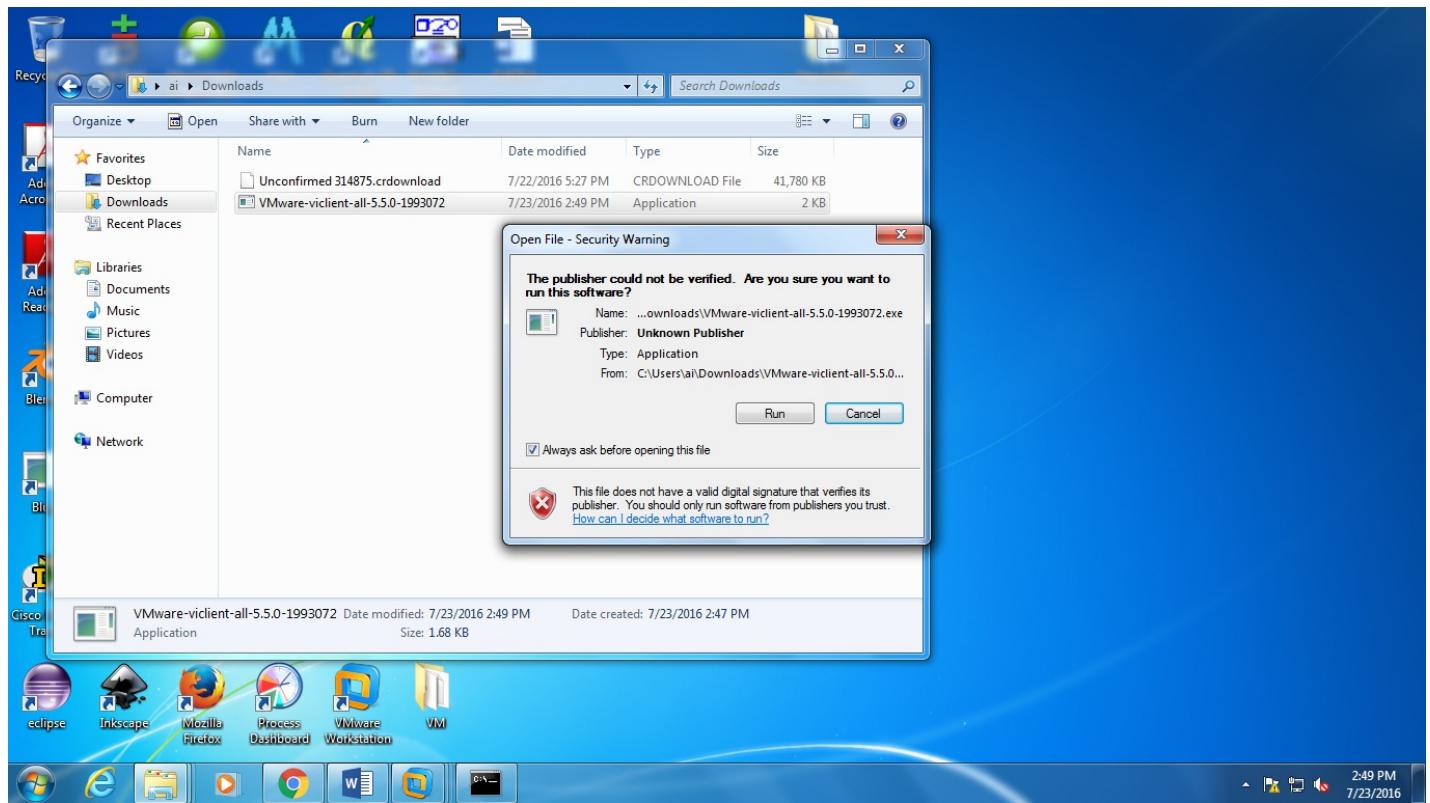
- [Download VMware vCenter](#)

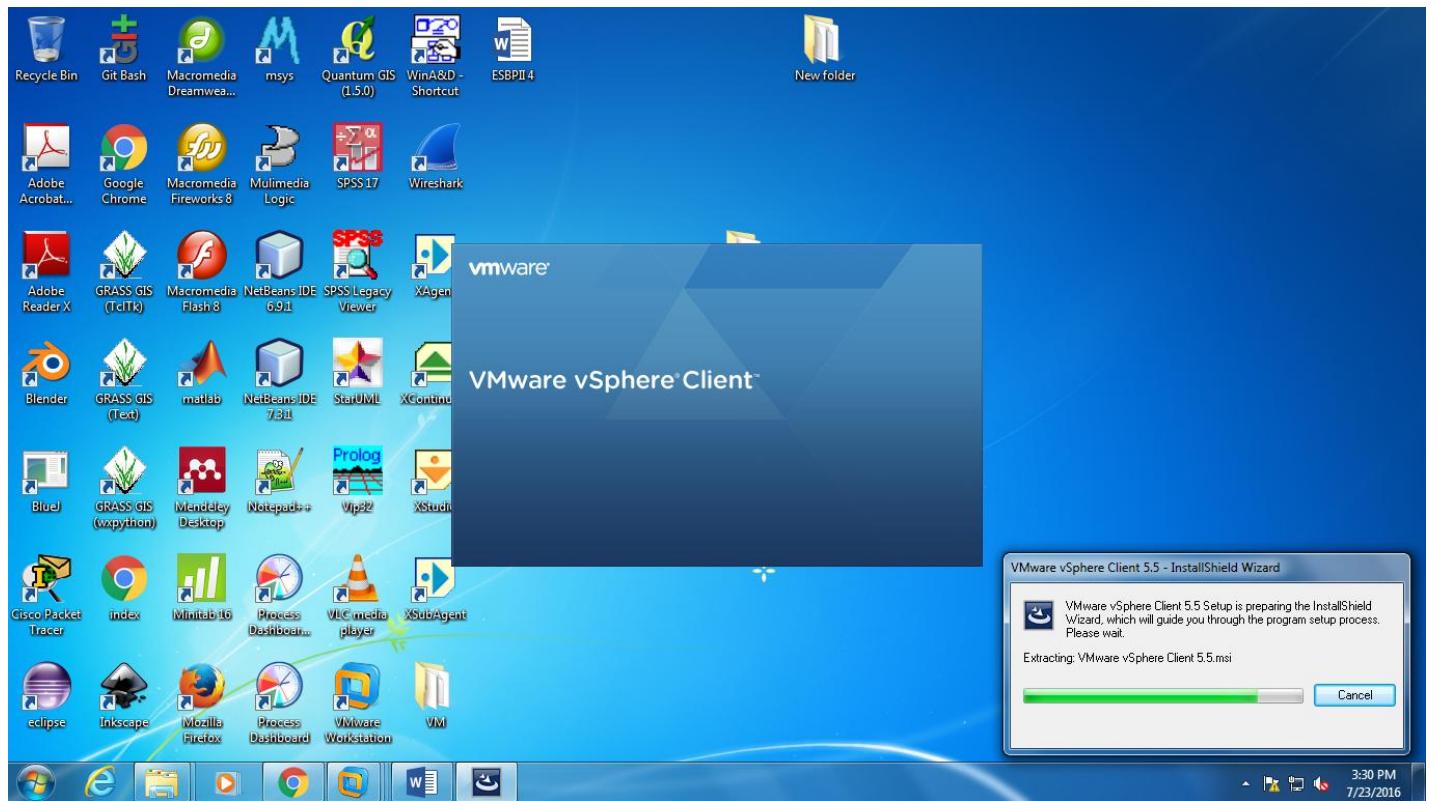
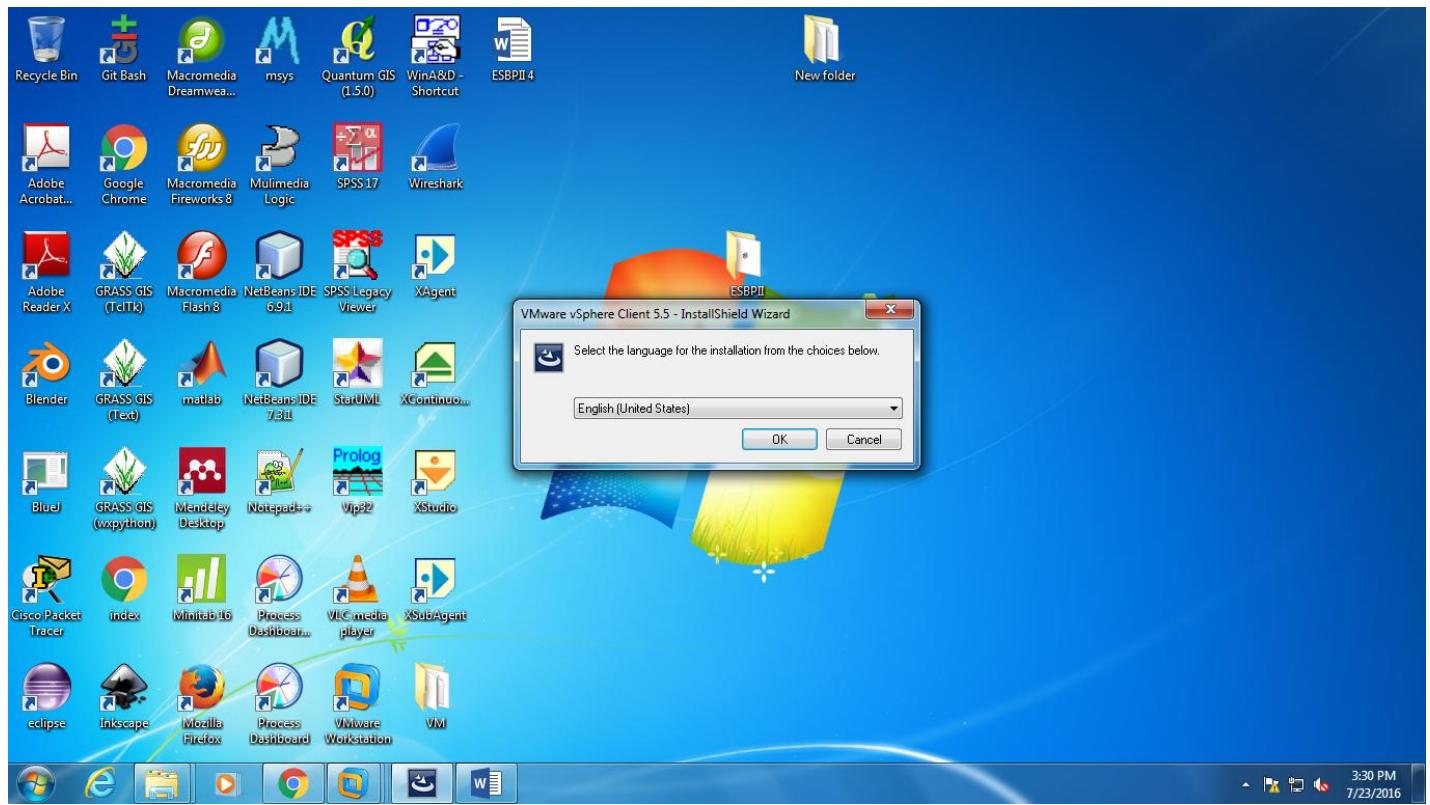
If you need more help, please refer to our documentation library:

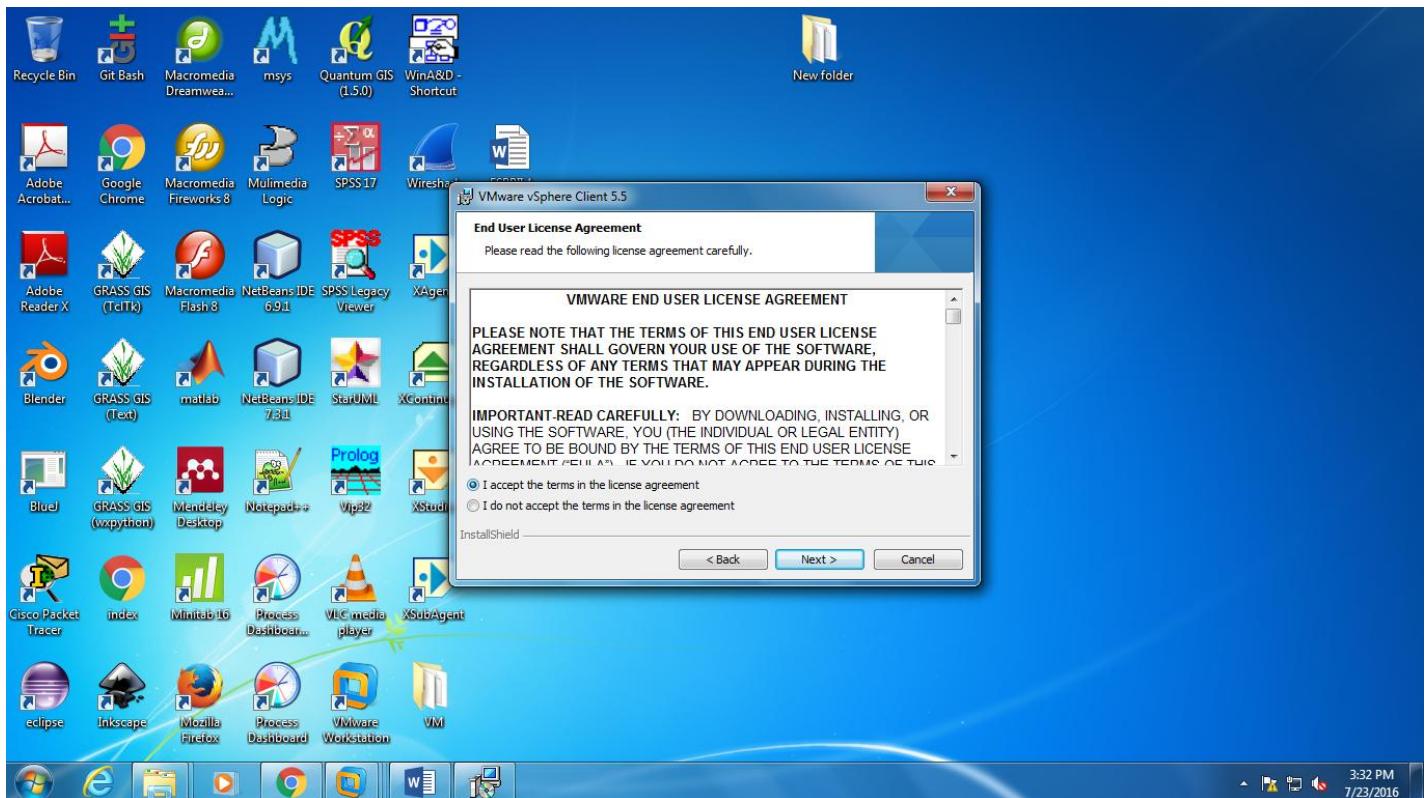
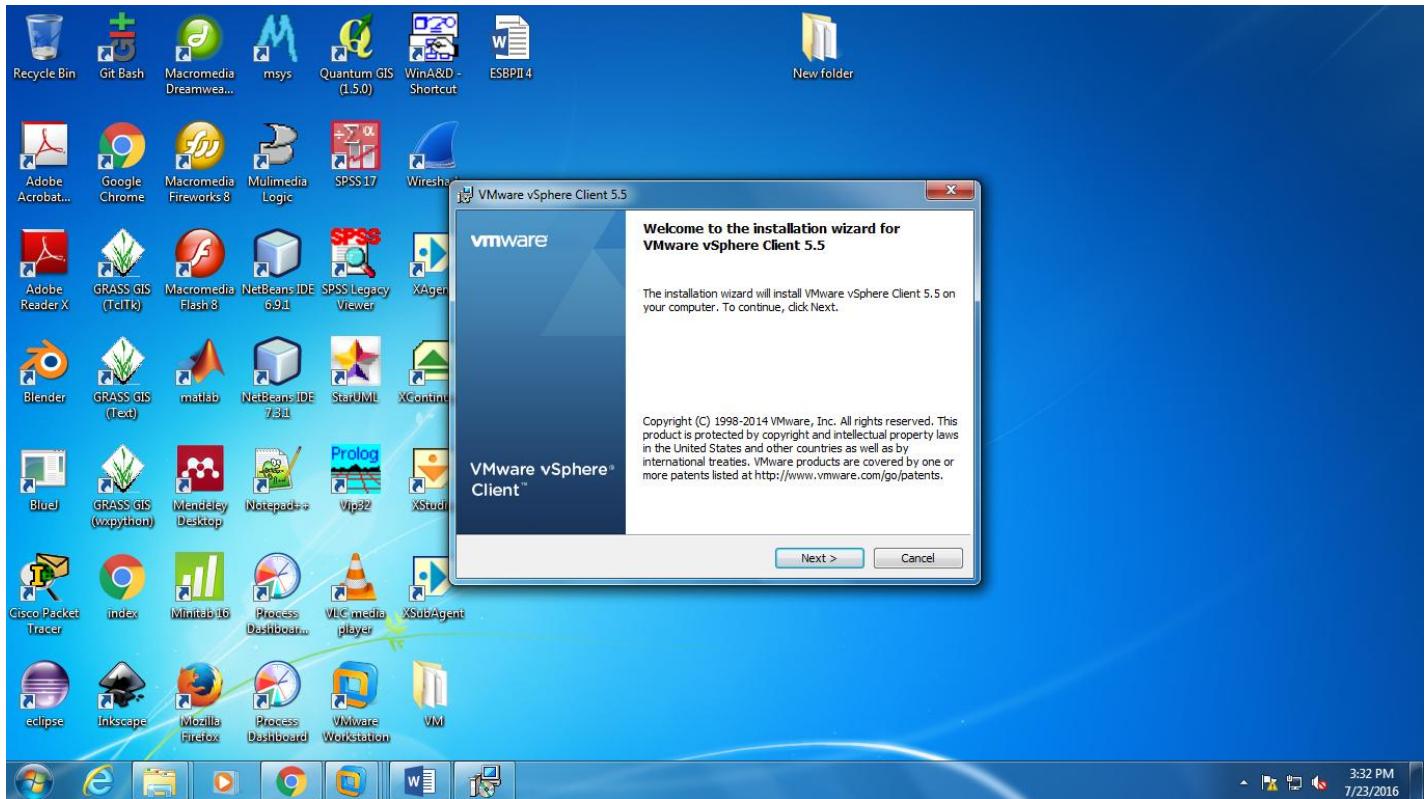
- [vSphere Documentation](#)

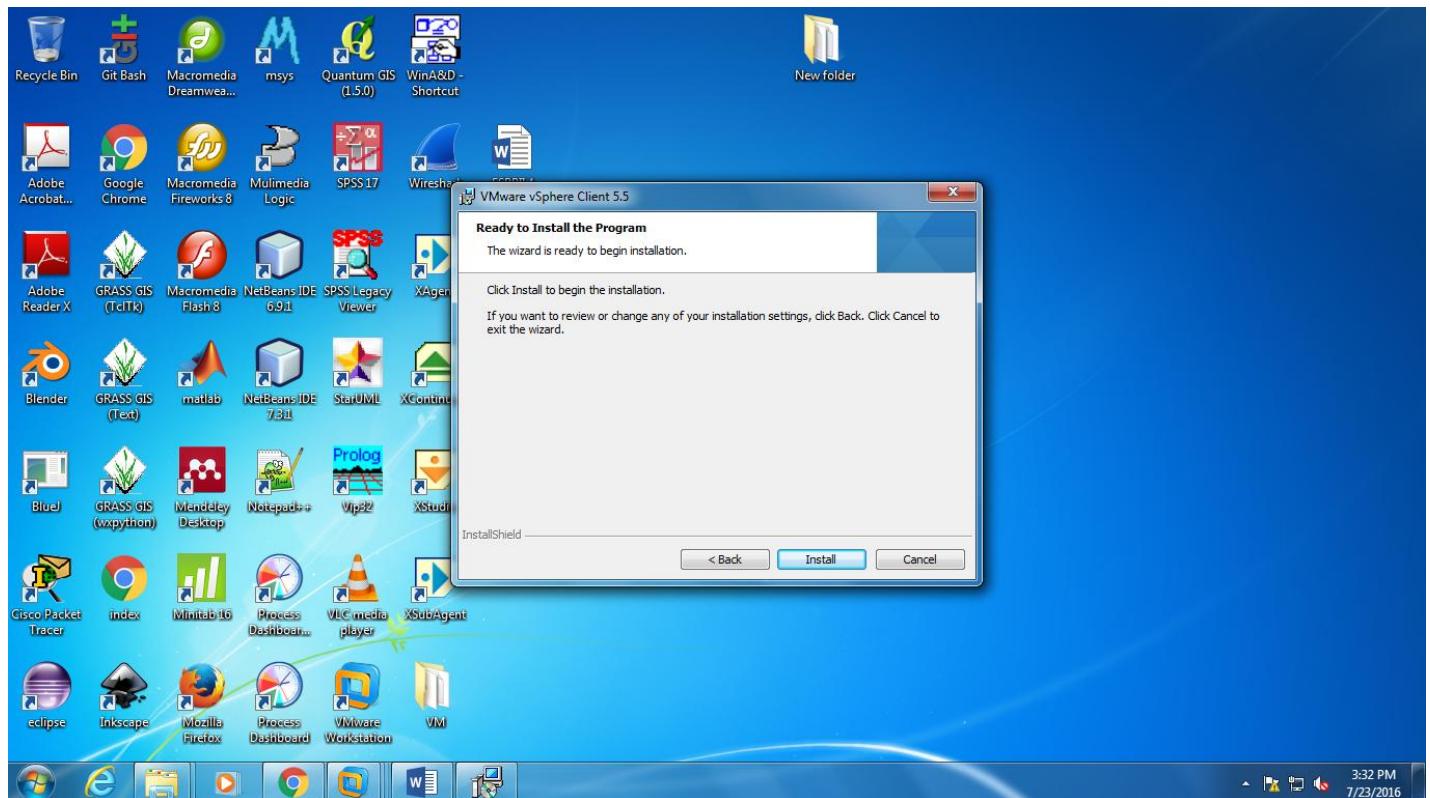
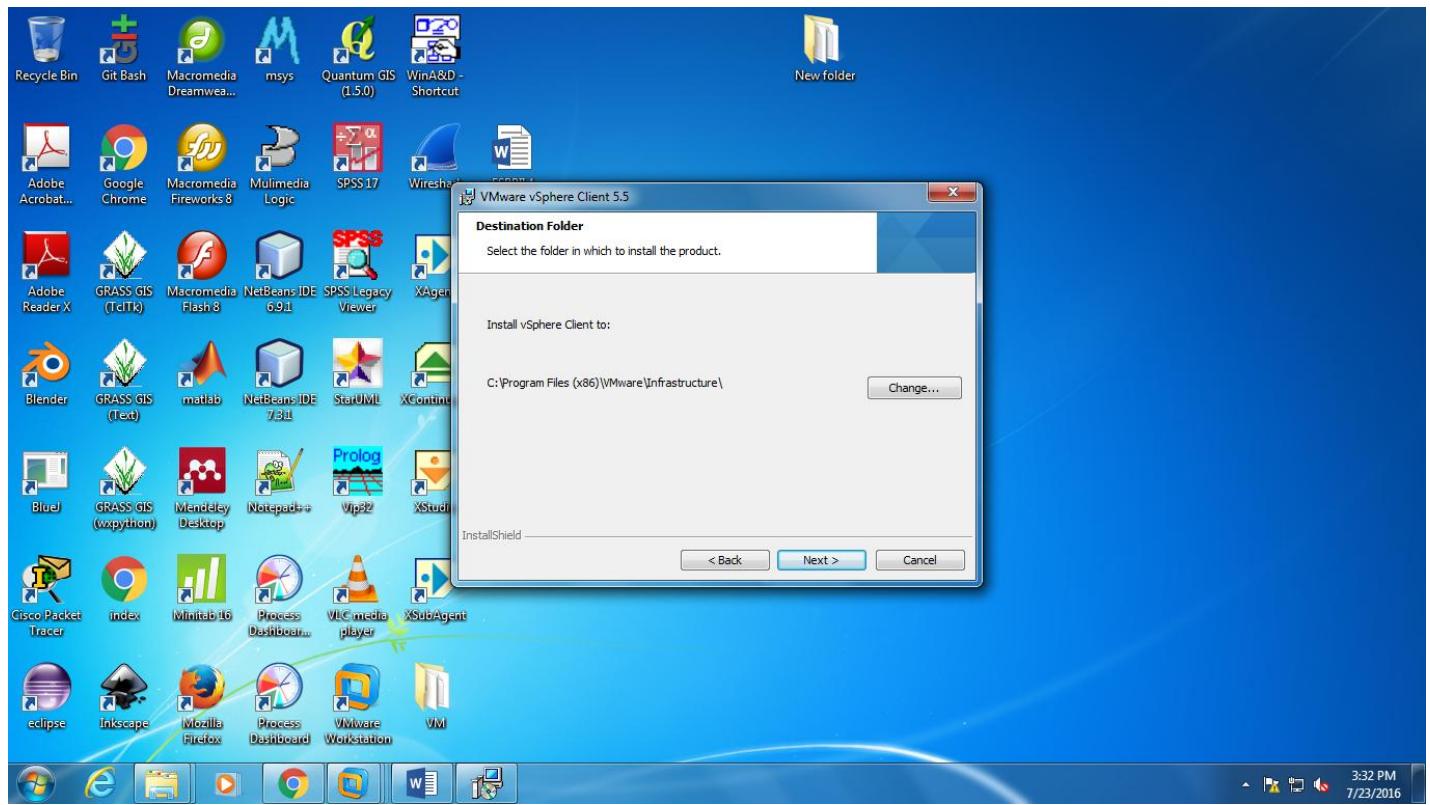
## Step 22

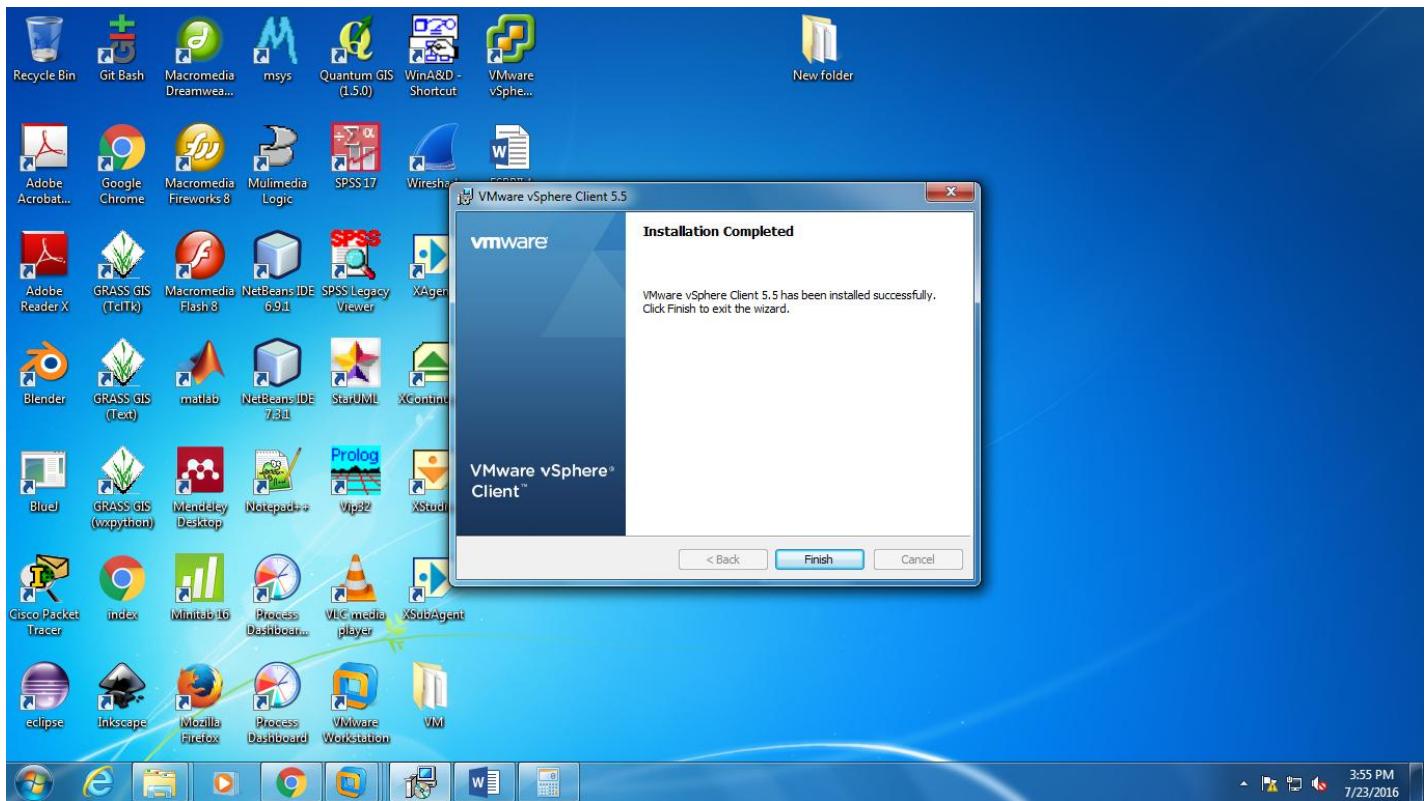
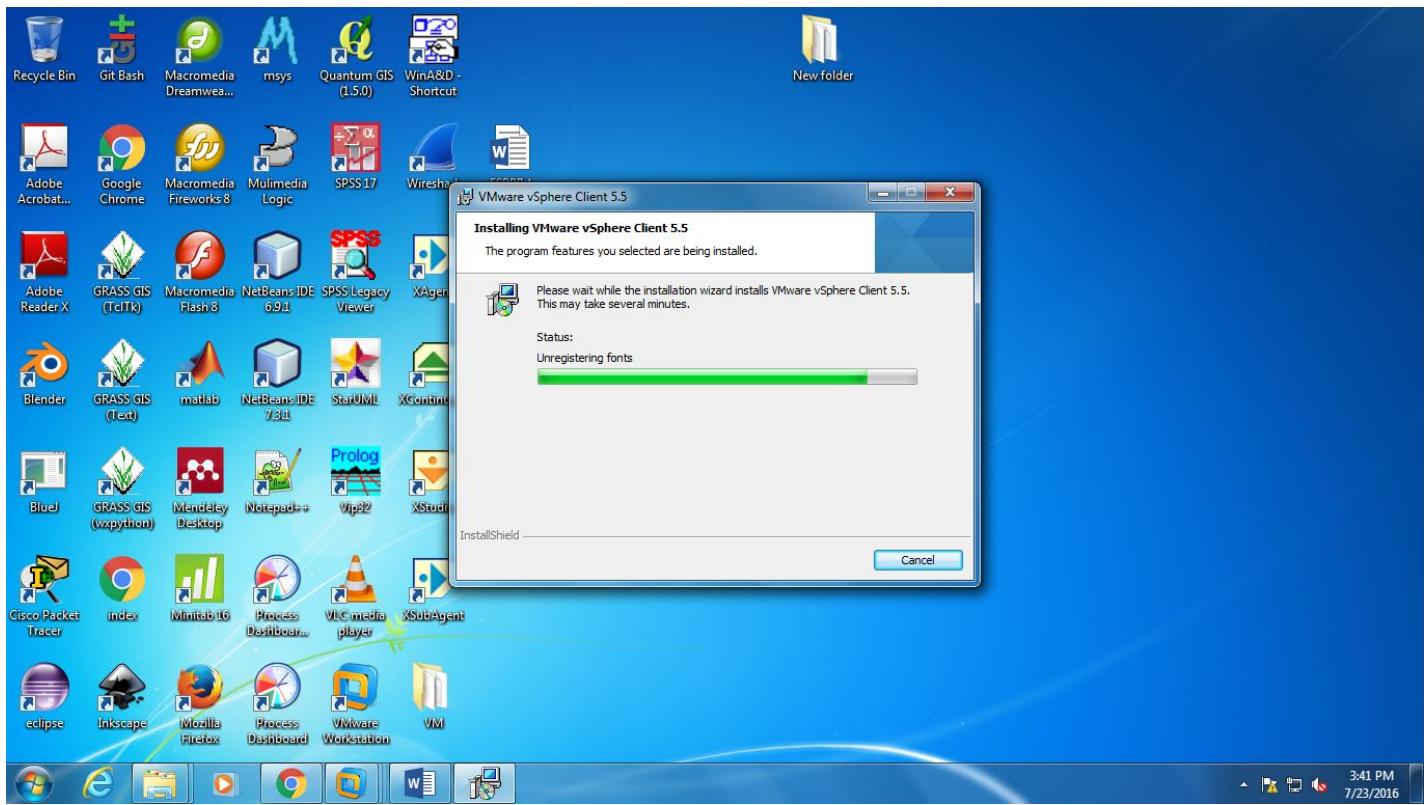
Then Install the Vsphere Client as the given below steps











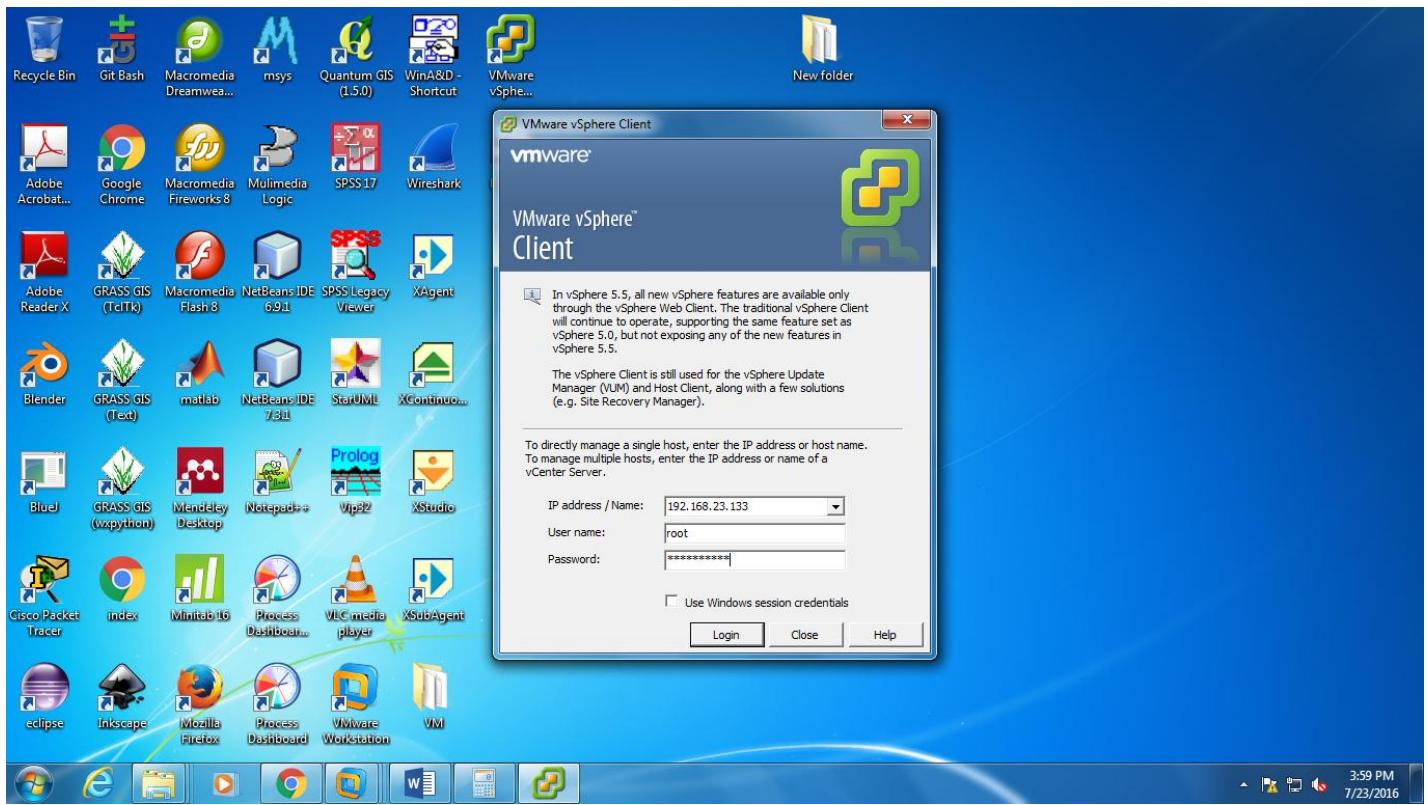
## Step 23

Now VMware vsphere client is installed.

Then double click on the installed VMware Vsphere client to get started

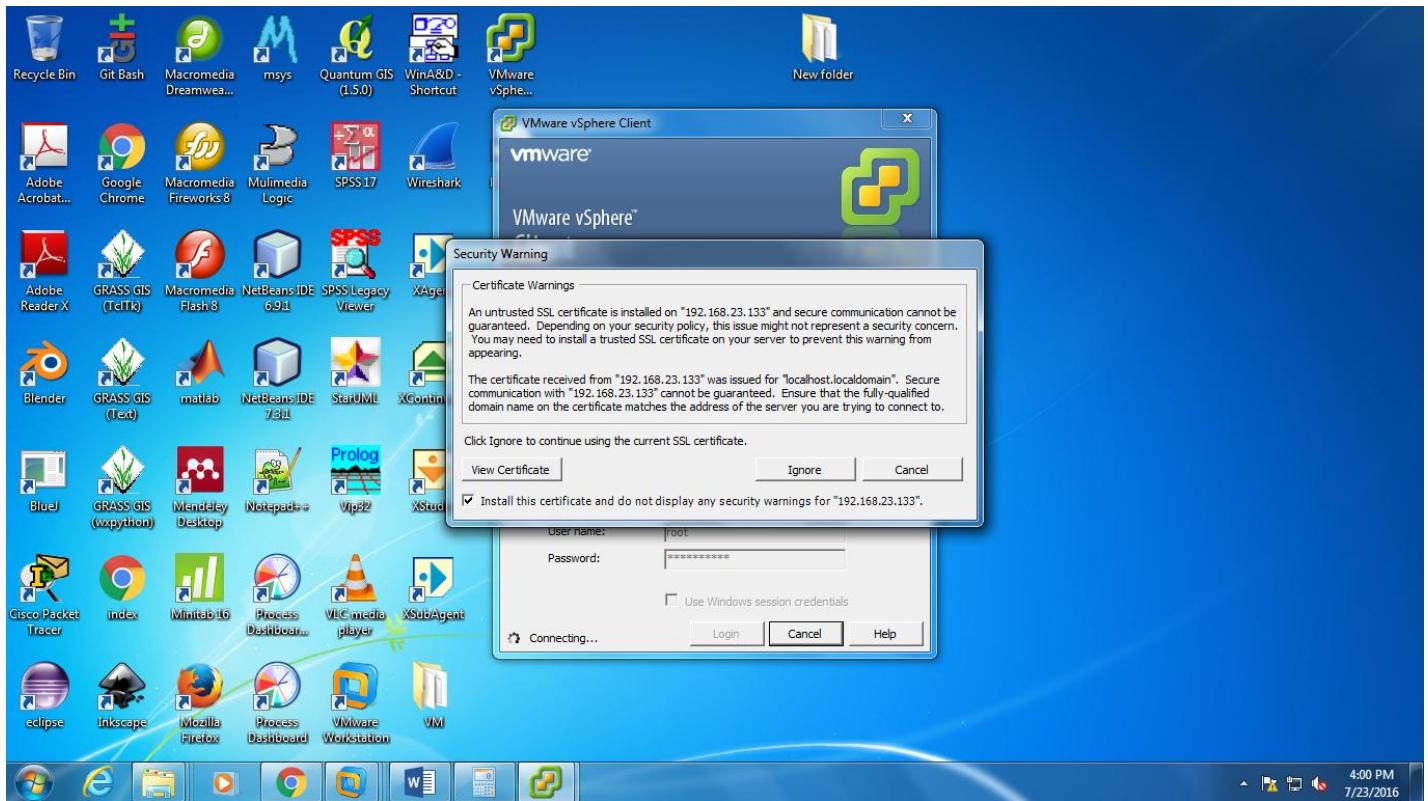
Then give the IP address of the vcenter server and the User name and the password

Then click Login button



## Step 24

Then it will ask you about the security warning. We can simply ignore that to continue



## Step 25

then it will appear the vmware vsphere client window

192.168.23.133 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home

Inventory

Administration

Recent Tasks

Name, Target or Status contains: ▾ Clear X

Tasks Evaluation Mode: 60 days remaining root 4:05 PM 7/23/2016

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 or Status contains: ▾ Clear X

Tasks Evaluation Mode: 60 days remaining root 4:06 PM 7/23/2016

## Step 26

select the summary tab and right click on the datastore .

192.168.23.130 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home 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 NICs:                 | 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 Tasks:                   |  |
| Host Profile:                   | N/A                                    |
| Image Profile:                  | N/A                                    |

**Resources**

|                          |                         |          |
|--------------------------|-------------------------|----------|
| CPU usage: 5997 MHz      | Capacity: 2 x 3.192 GHz |          |
| Memory usage: 1169.00 MB | Capacity: 4095.49 MB    |          |
| Storage                  | Drive Type              | Capacity |
| datastore1               | Non-SSD                 | 2.50 GB  |
| Network                  | Type                    |          |
| VM Network               | Standard port group     |          |

**Fault Tolerance**

|                                |                   |
|--------------------------------|-------------------|
| Fault Tolerance Version:       | 5.0.0-5.0.0-5.0.0 |
| Refresh Virtual Machine Counts |                   |
| 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 |
|------|--------|--------|---------|--------------|-----------------------|------------|----------------|
|      |        |        |         |              |                       |            |                |

Tasks

Evaluation Mode: 60 days remaining root 7:27 PM 7/25/2016

then we can upload the operating system that we have to install

192.168.23.128 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home 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

**Datastore Browser - [datastore1]**

Upload File...  
Upload Folder...

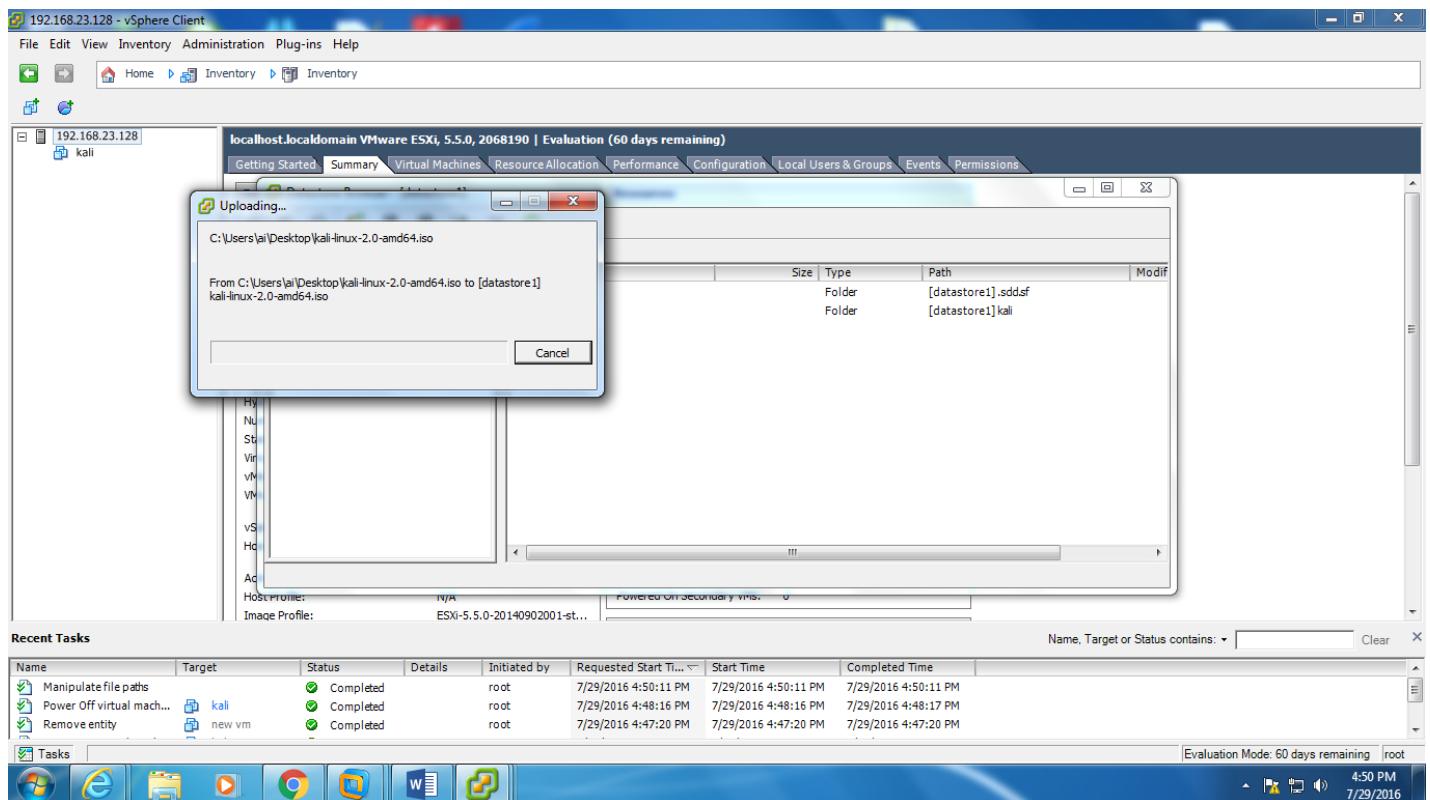
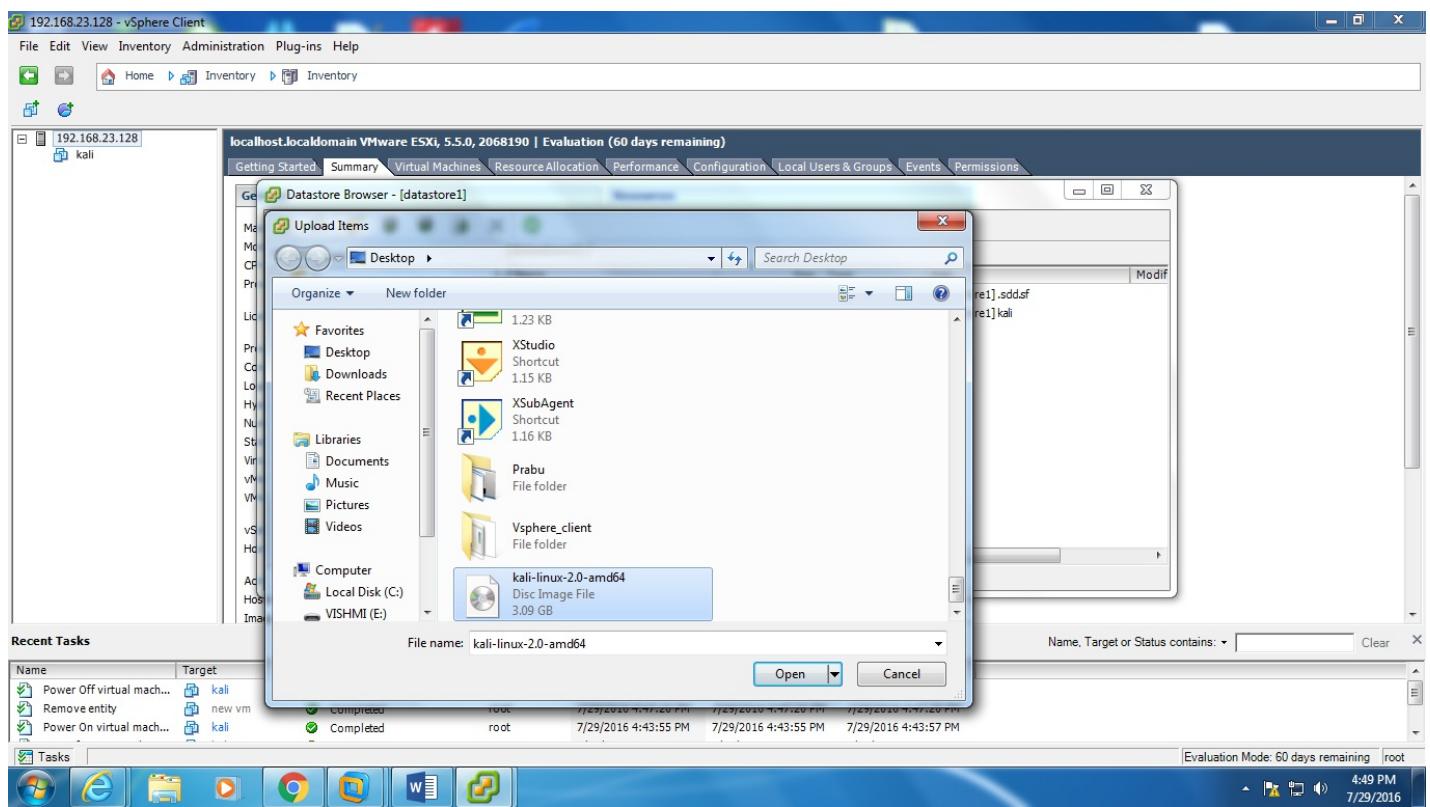
| Name  | Type   | Path              | Modified |
|-------|--------|-------------------|----------|
| .ssdf | Folder | [datastore1].ssdf |          |
| kali  | Folder | [datastore1]kali  |          |

**Recent Tasks**

| Name                      | Target | Status    | Details | Initiated by | Requested Start Ti... | Start Time           | Completed Time       |
|---------------------------|--------|-----------|---------|--------------|-----------------------|----------------------|----------------------|
| Power Off virtual mach... | kali   | Completed |         | root         | 7/29/2016 4:48:16 PM  | 7/29/2016 4:48:16 PM | 7/29/2016 4:48:17 PM |
| Remove entity             | new vm | Completed |         | root         | 7/29/2016 4:47:20 PM  | 7/29/2016 4:47:20 PM | 7/29/2016 4:47:20 PM |
| Power On virtual mach...  | kali   | Completed |         | root         | 7/29/2016 4:43:55 PM  | 7/29/2016 4:43:55 PM | 7/29/2016 4:43:57 PM |

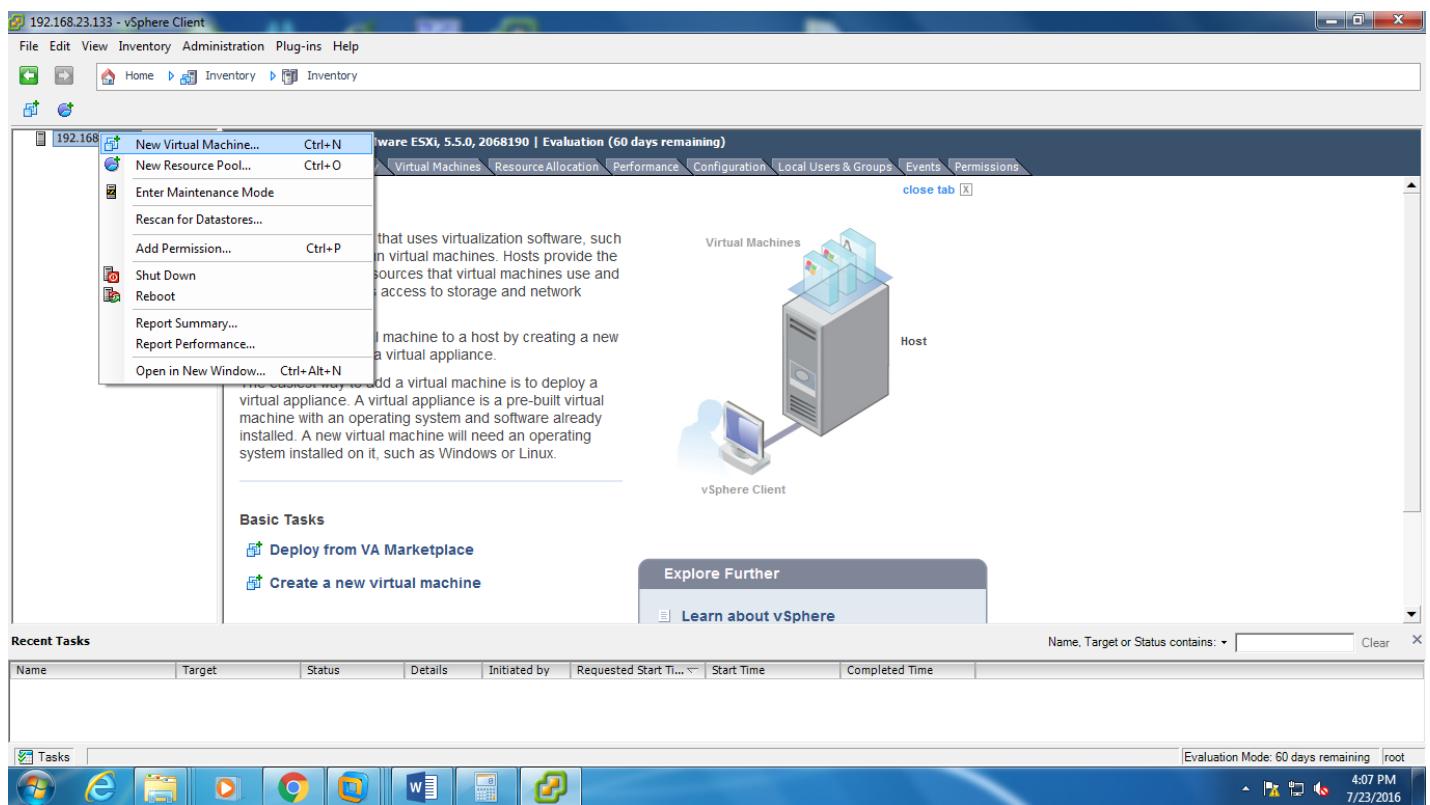
Tasks

Evaluation Mode: 60 days remaining root 4:49 PM 7/29/2016



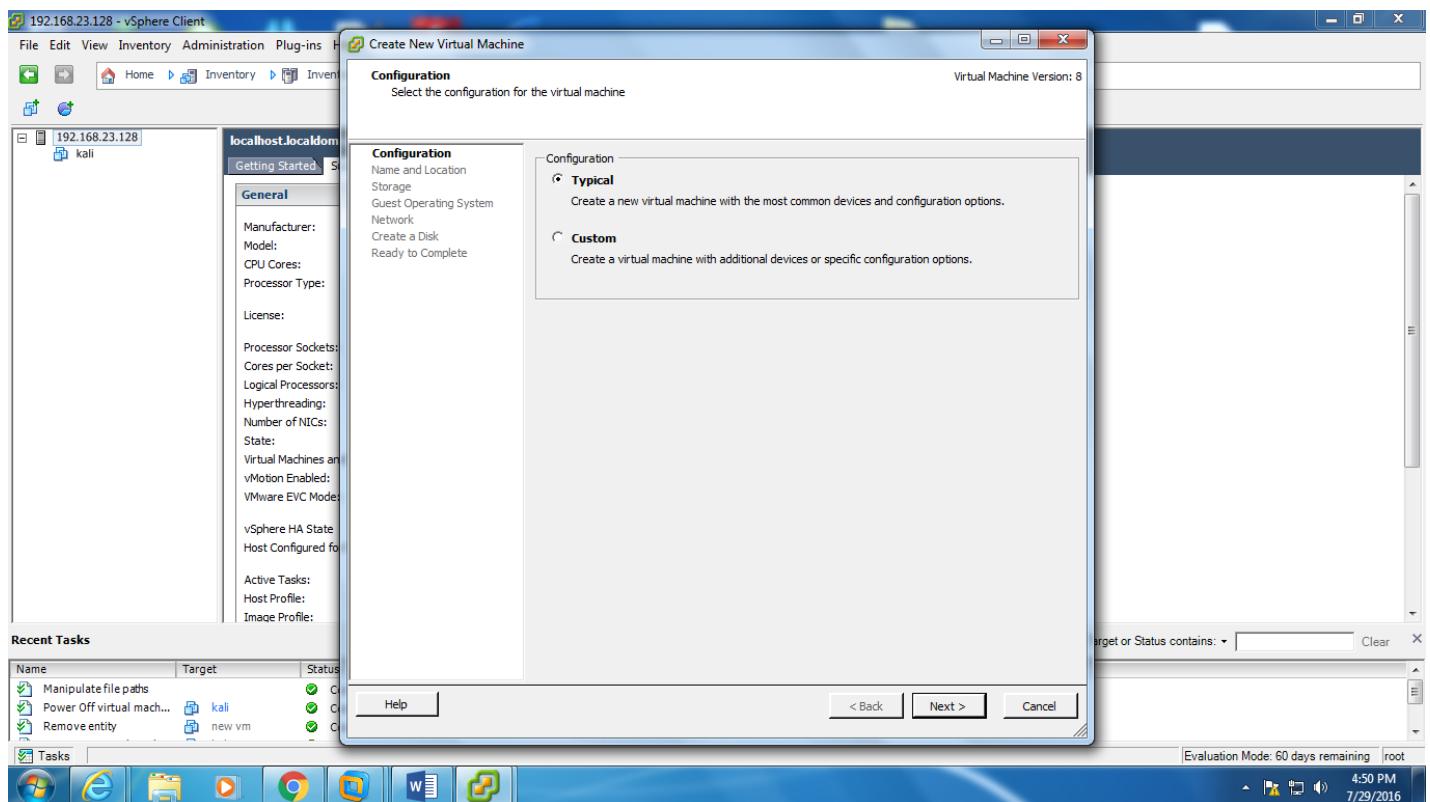
## Step 27

we can write click on top of the IP address and select the New Virtual Machine

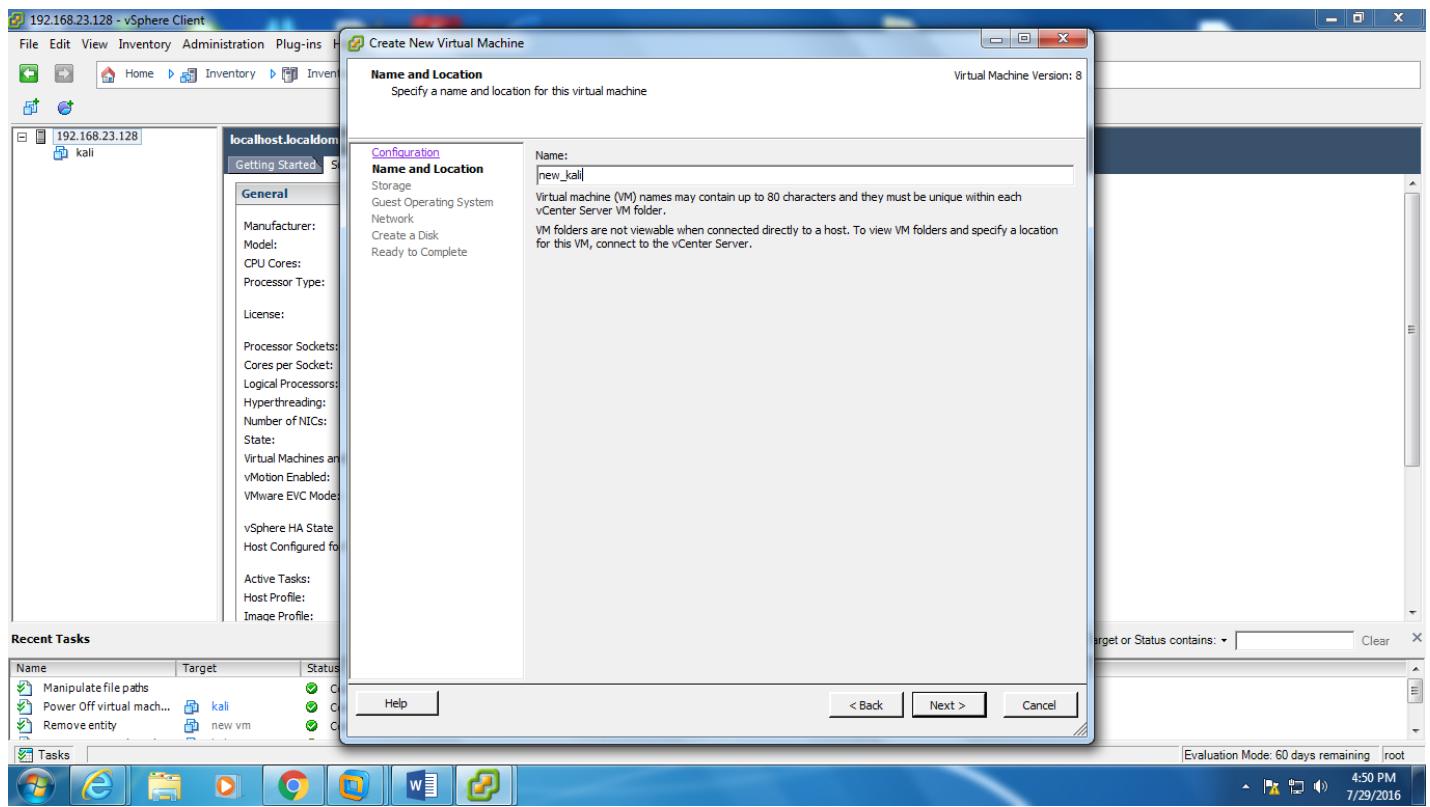


## Step 28

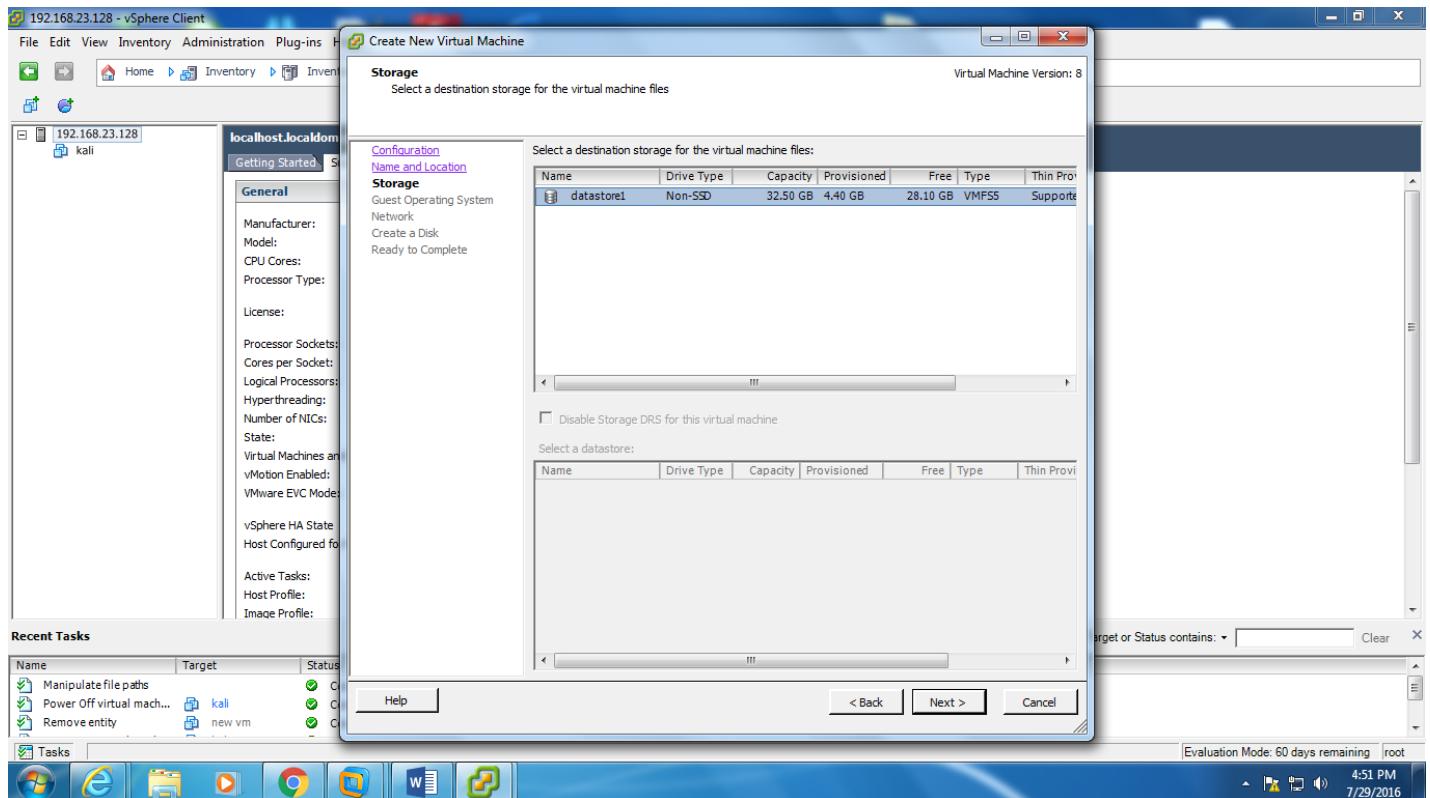
Next we have to configure our new Virtual machine to do that we can follow the below steps



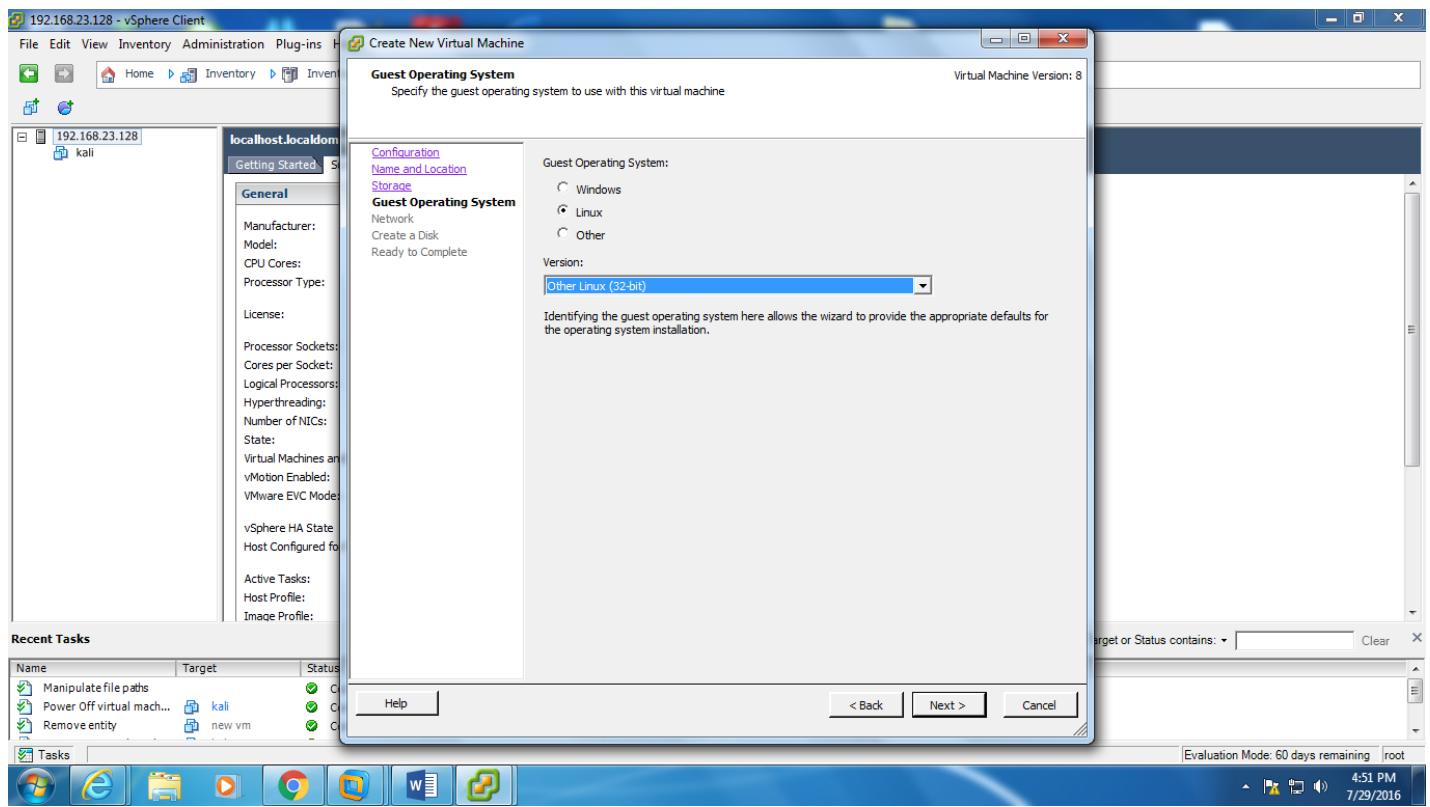
Then give the Virtual Machine name



Select the storage as datastore

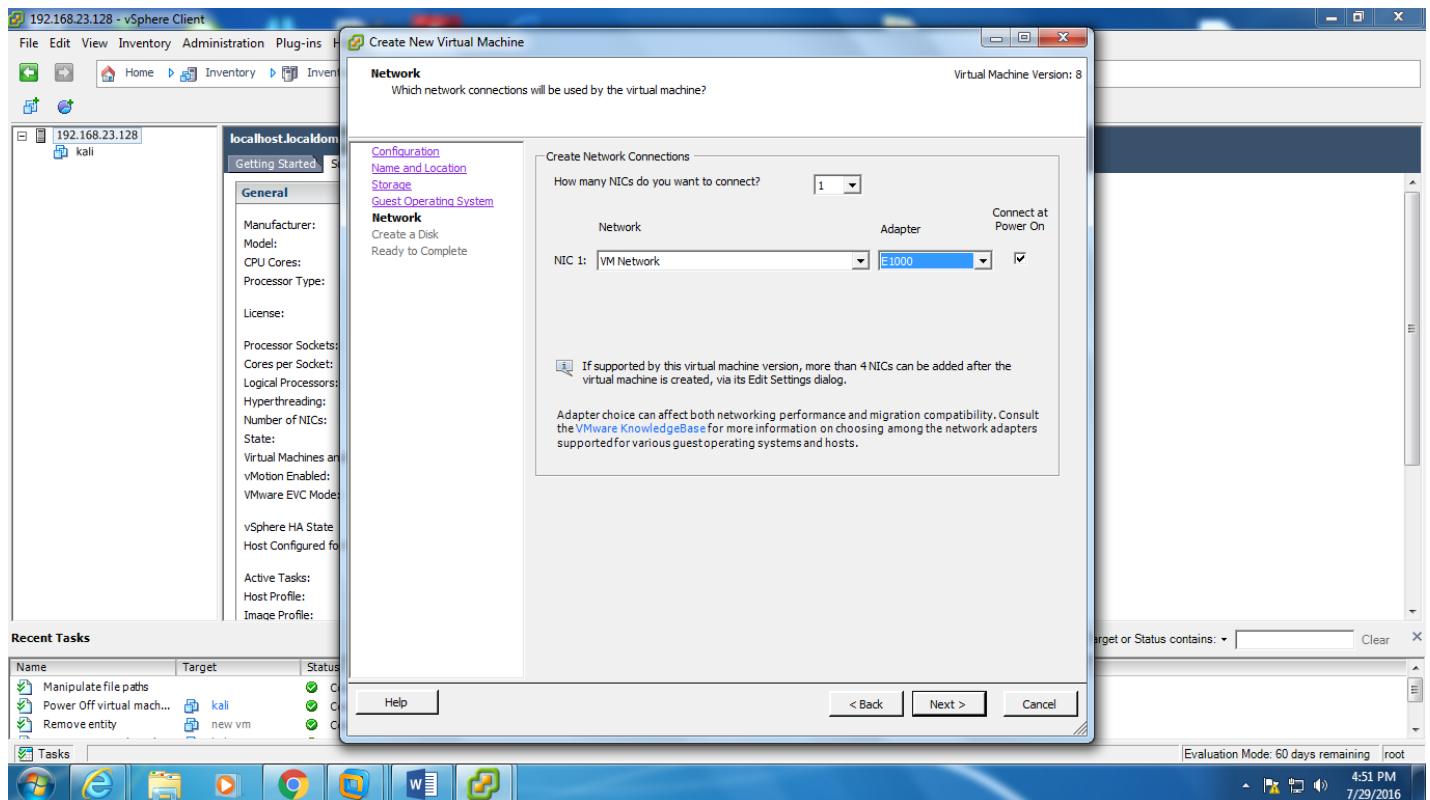


Then select LINUX as the Guest operating system



Then we have create network connections

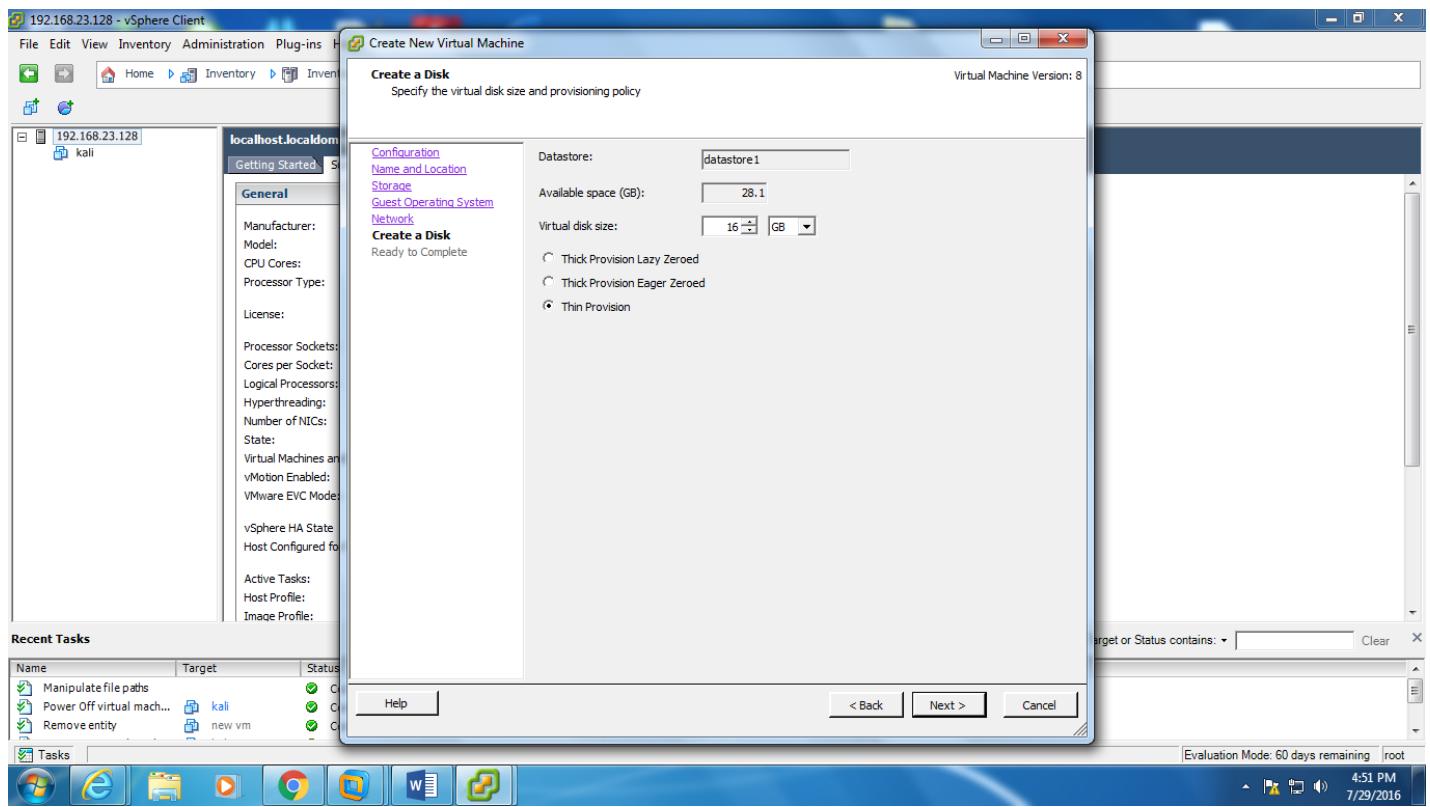
Select network as : VM Network and adaptor as : E1000 and select next button.



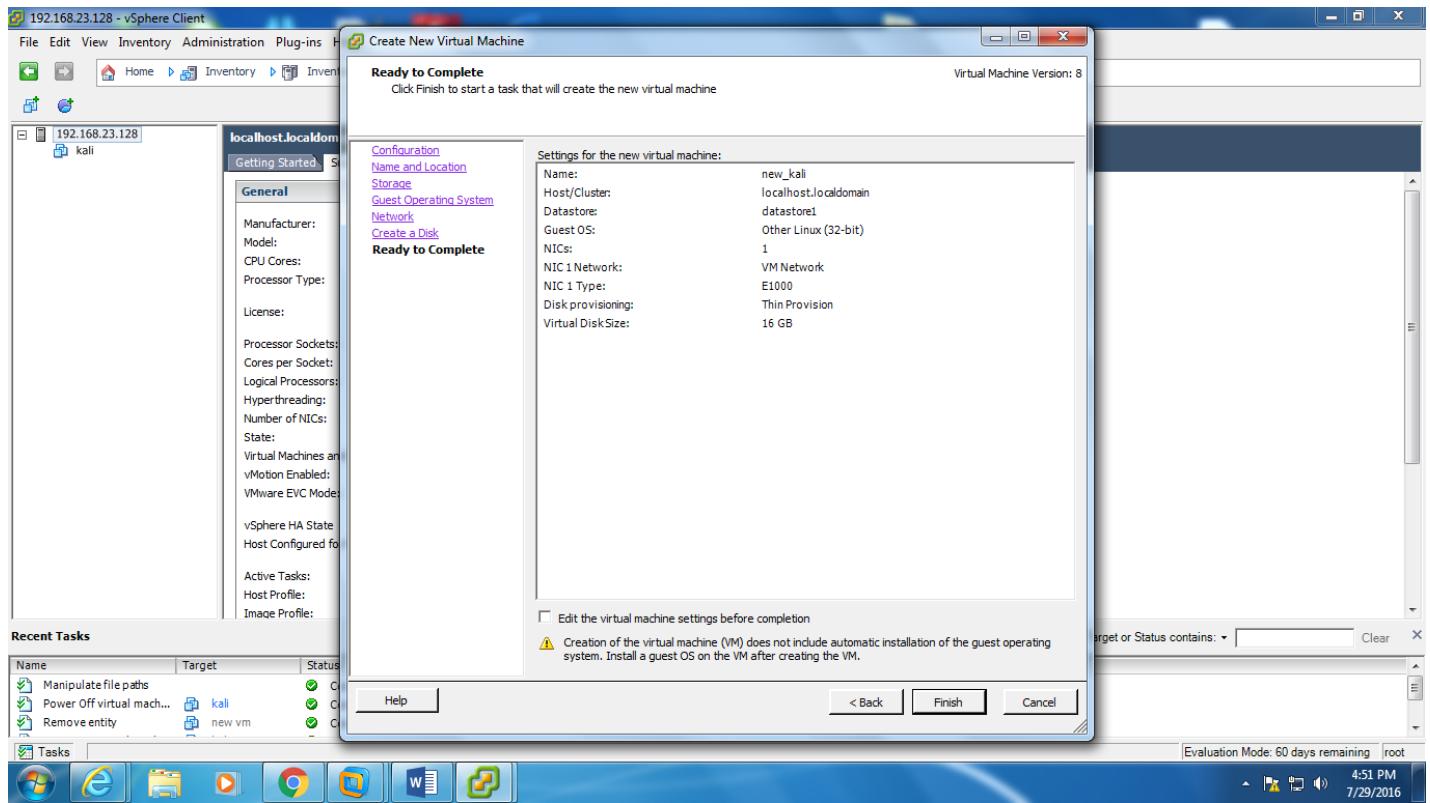
Then we have to provide virtual disk size and provisioning policy.

Virtual disk size : 16GB and Provision : Thin Provisioning

Then select next button.



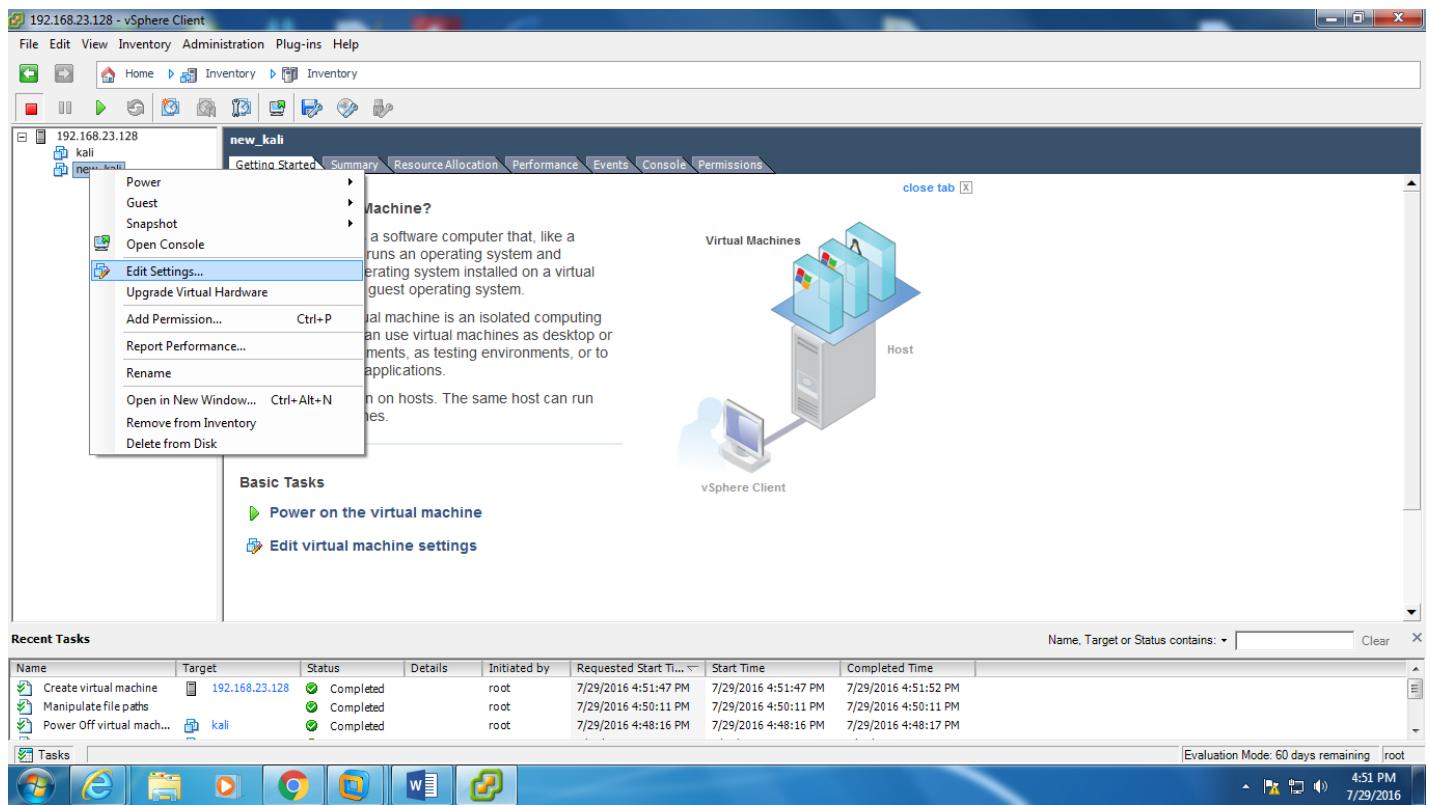
Then Click finish.



## Step 29

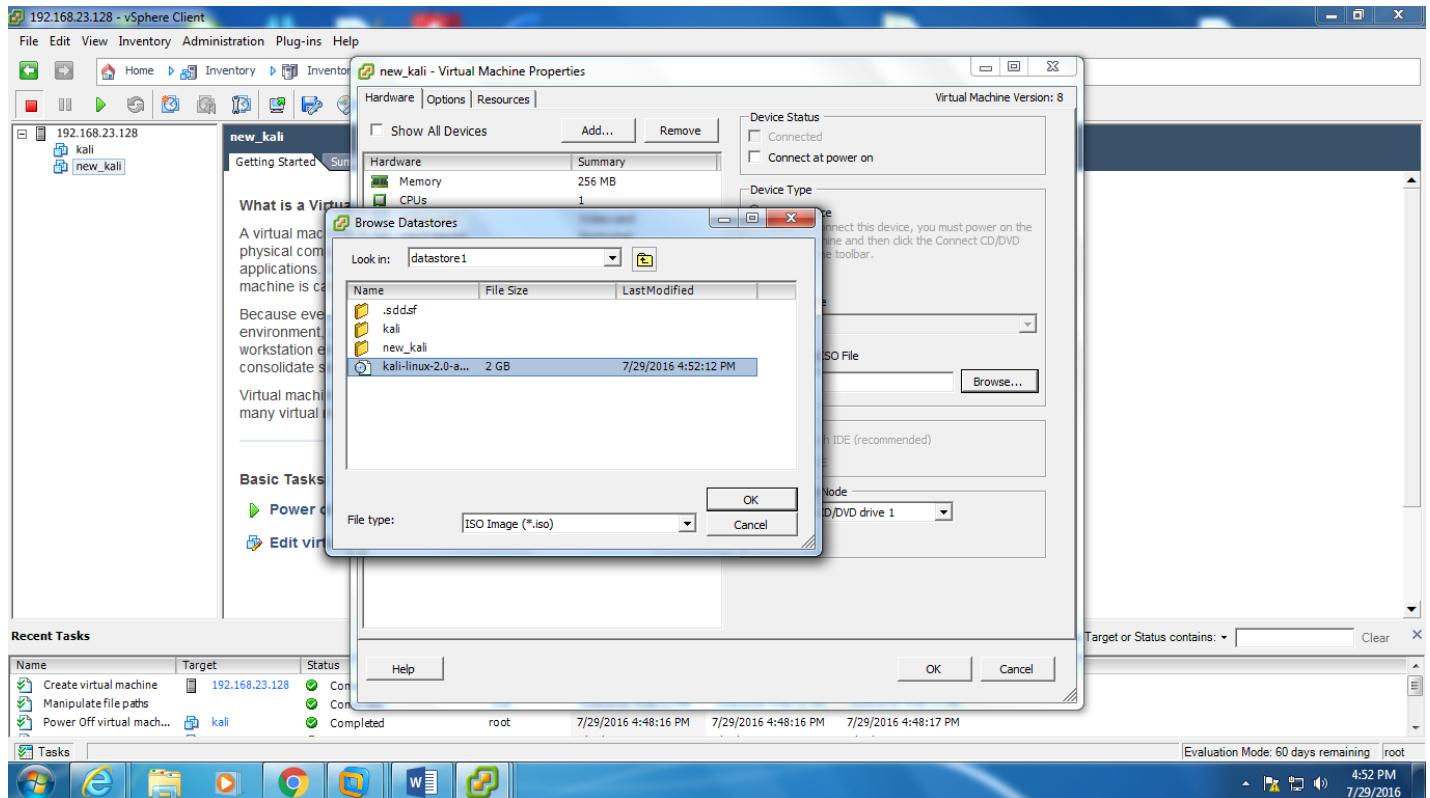
Now our operating system creation is already finished.

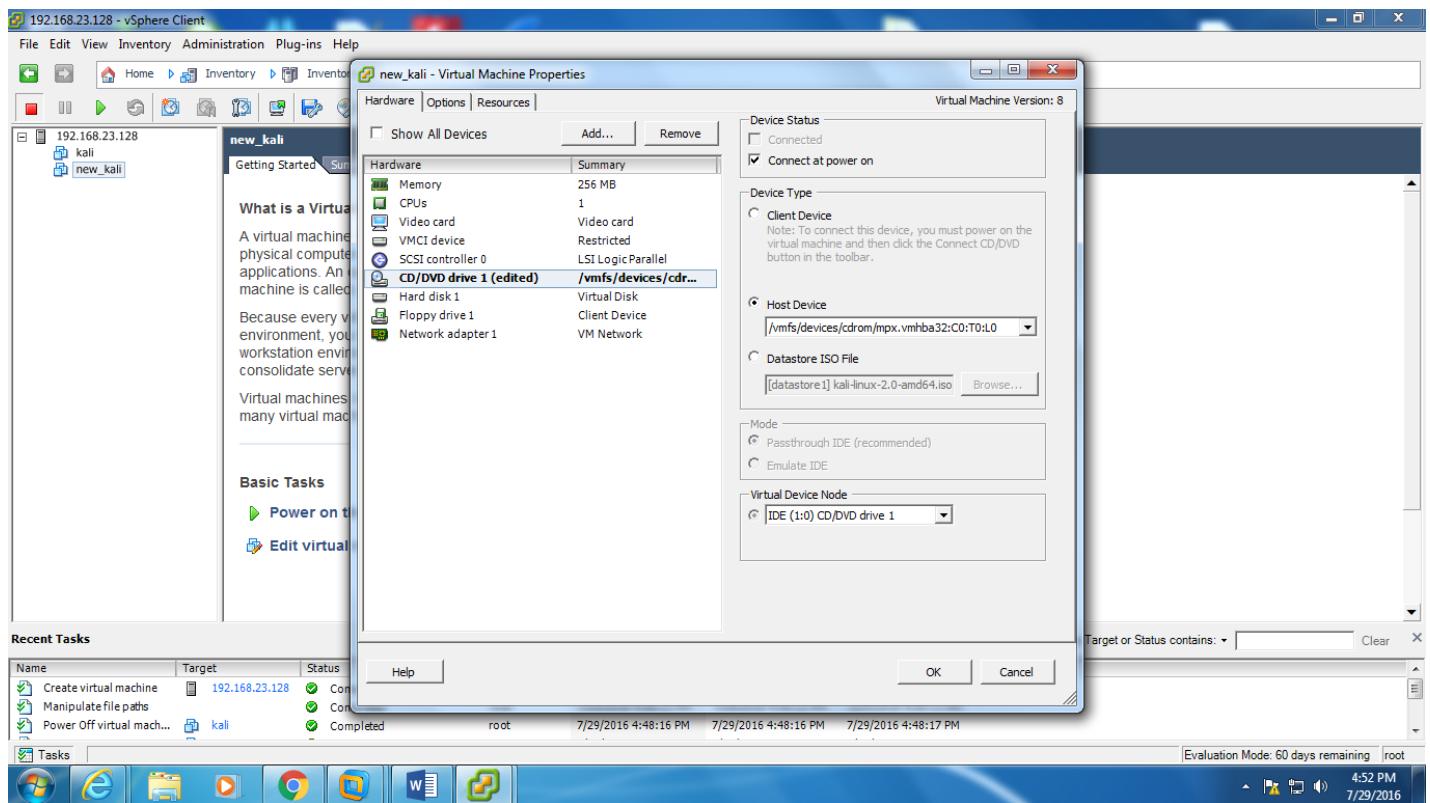
To further configurations write click on top of the virtual machine name and click on the Edit settings



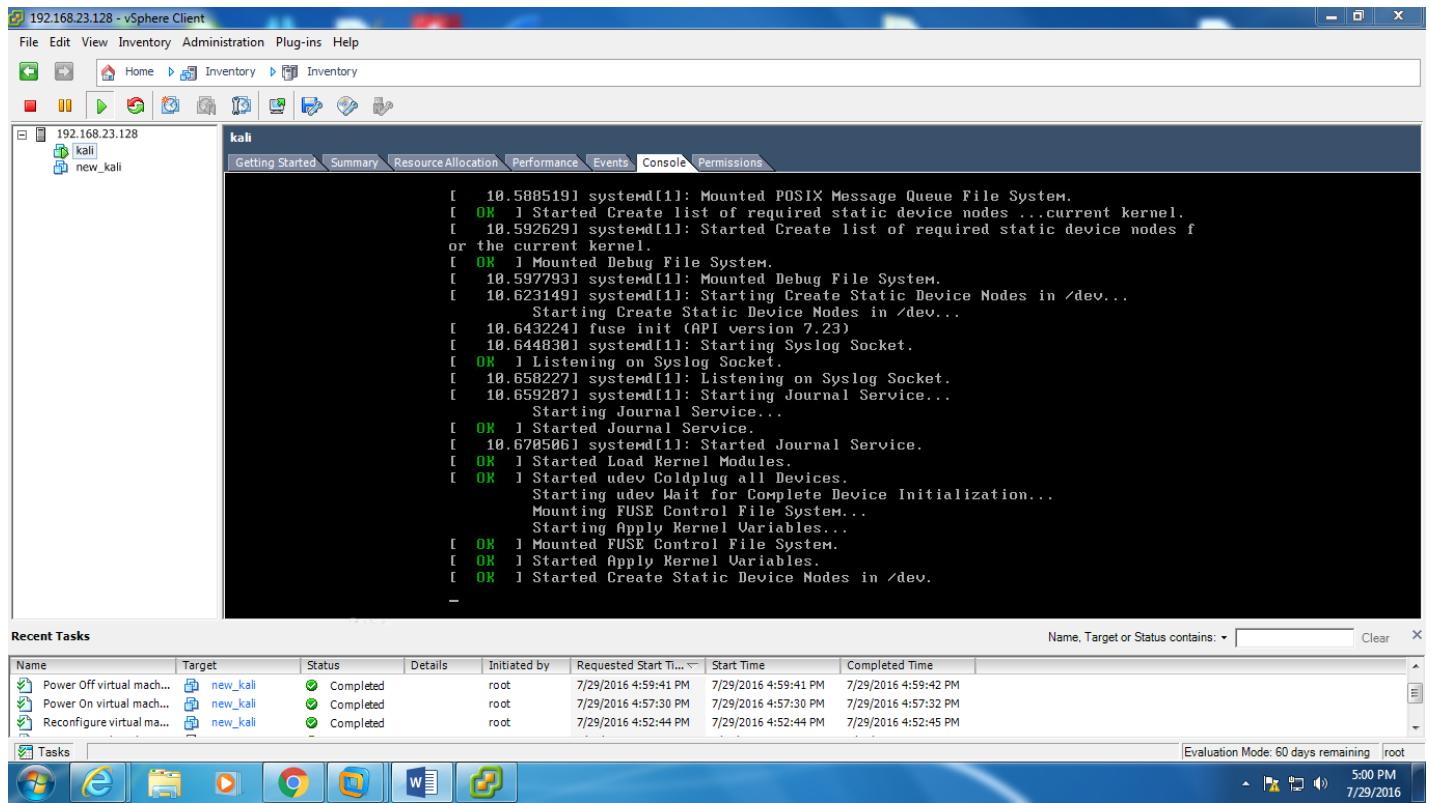
Click on the CD/DVD drive1(edited)

Then browse the data store and the select host devices



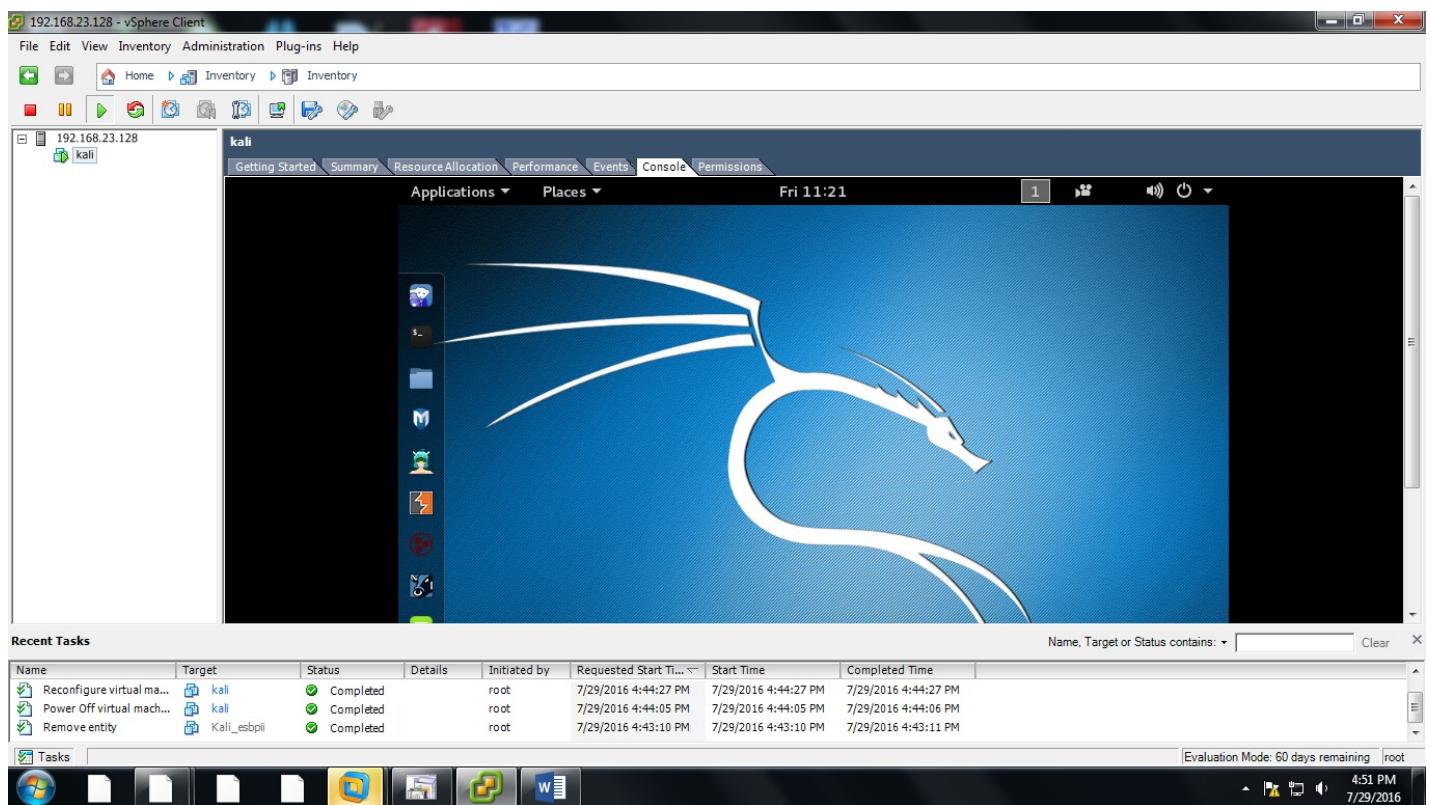


Then select the console tab and we can see the configurations



### Step 30

then our kali installation is completely finished



## Step 31

We can type commands in linux console

