

Sri Lanka Institute of Information Technology



4nd Year 2st Semester 2016

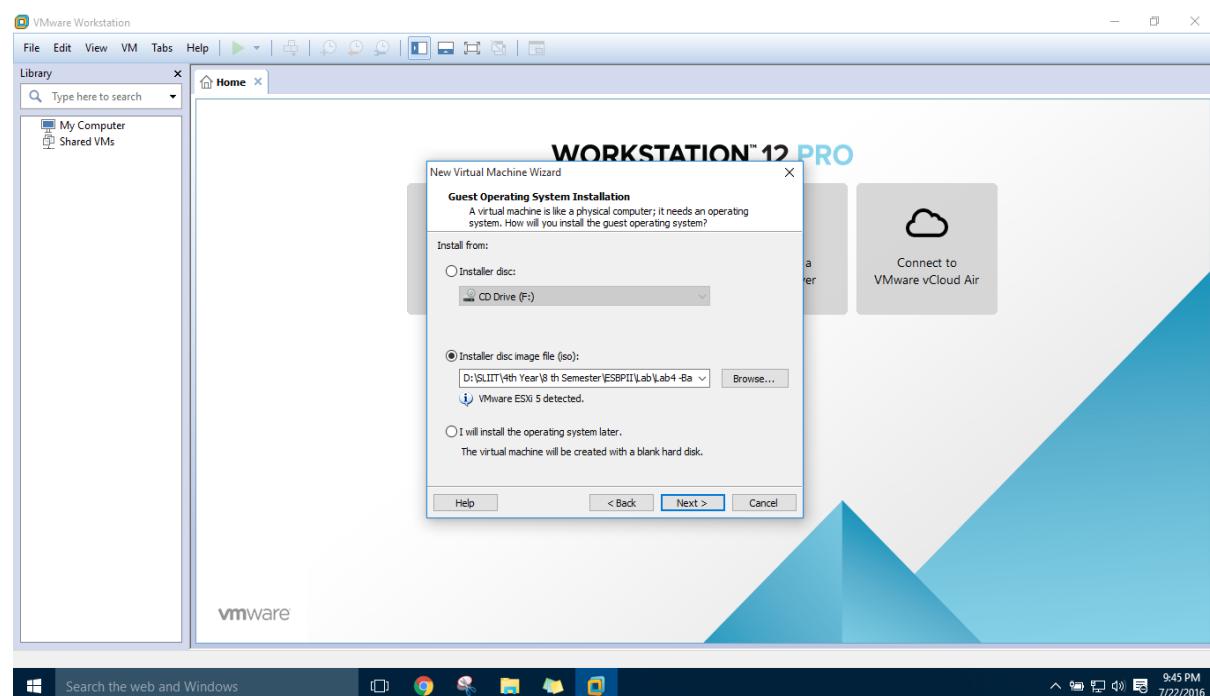
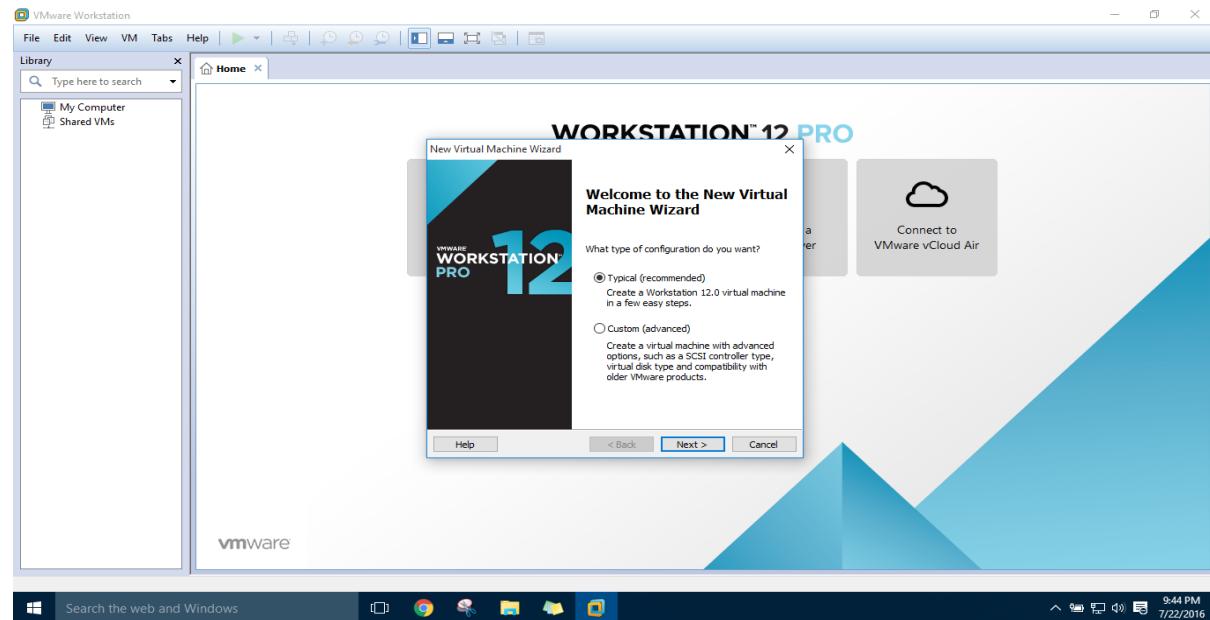
Enterprise Standards and Best Practices for IT Infrastructure

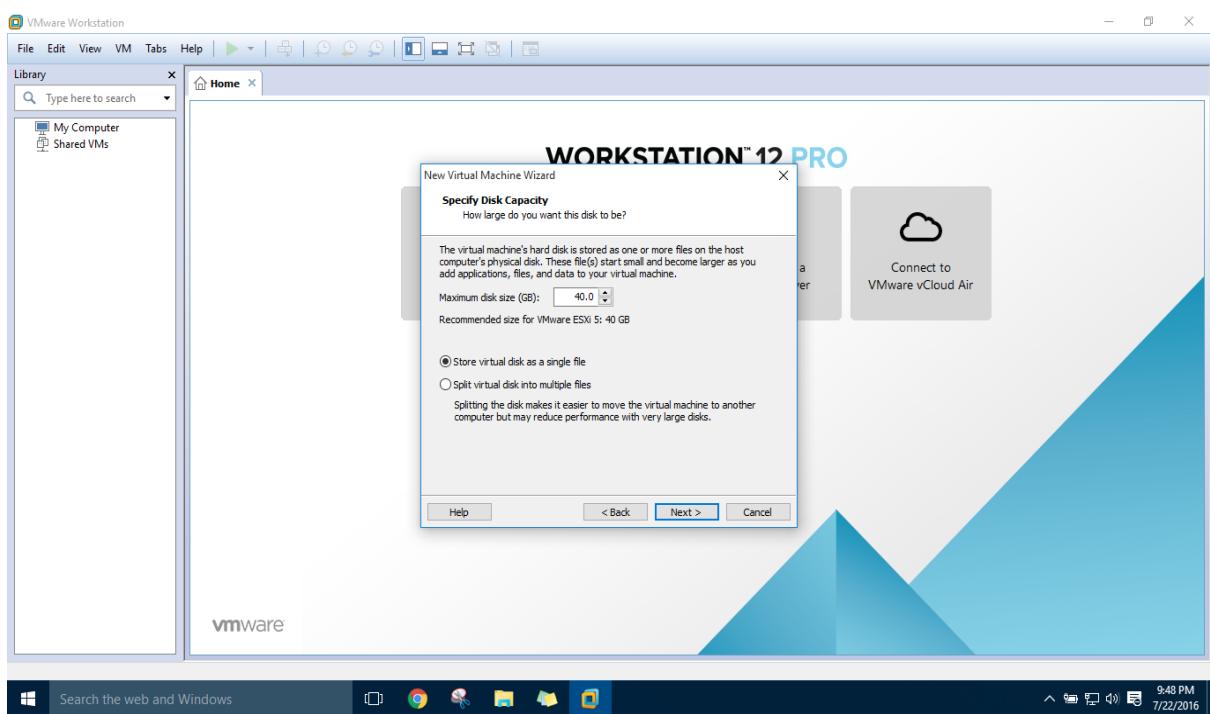
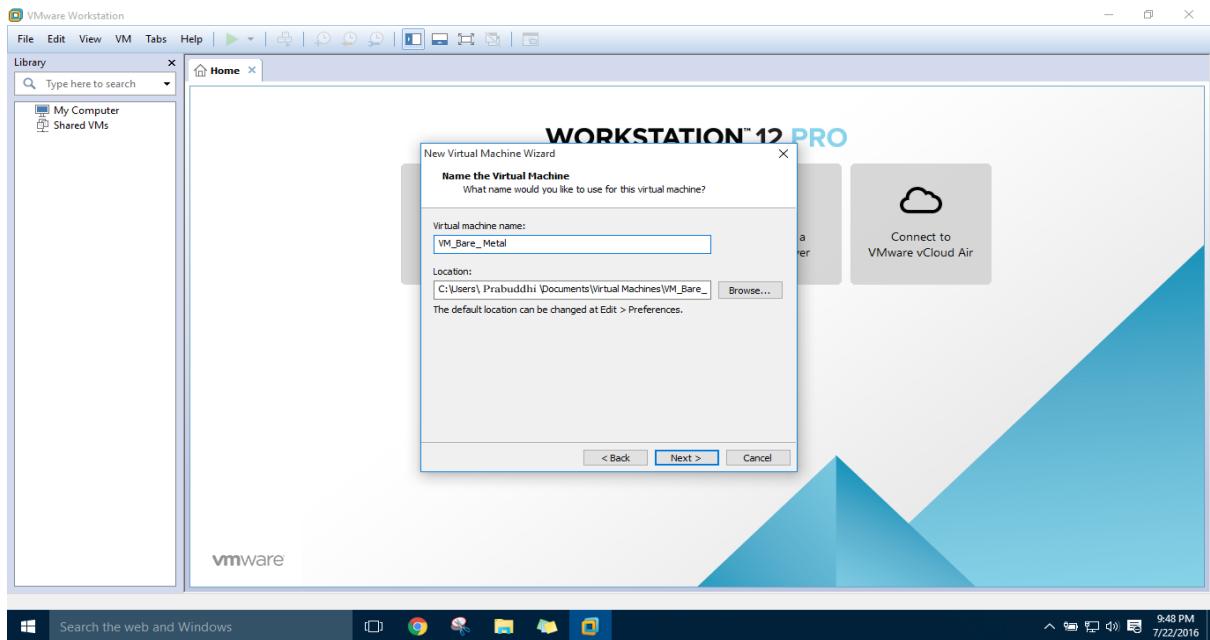
Baremetal Virtual Machine Installation

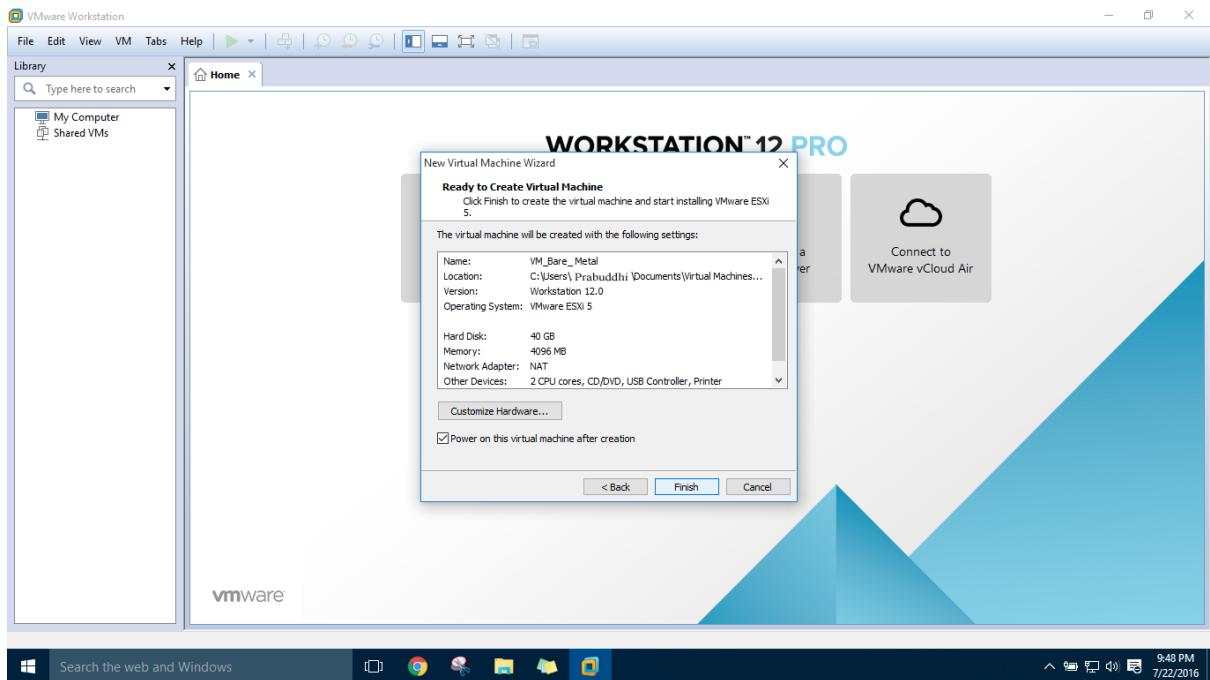
Reg No: IT 13 003210

Name: Madhumali D.P.P.K

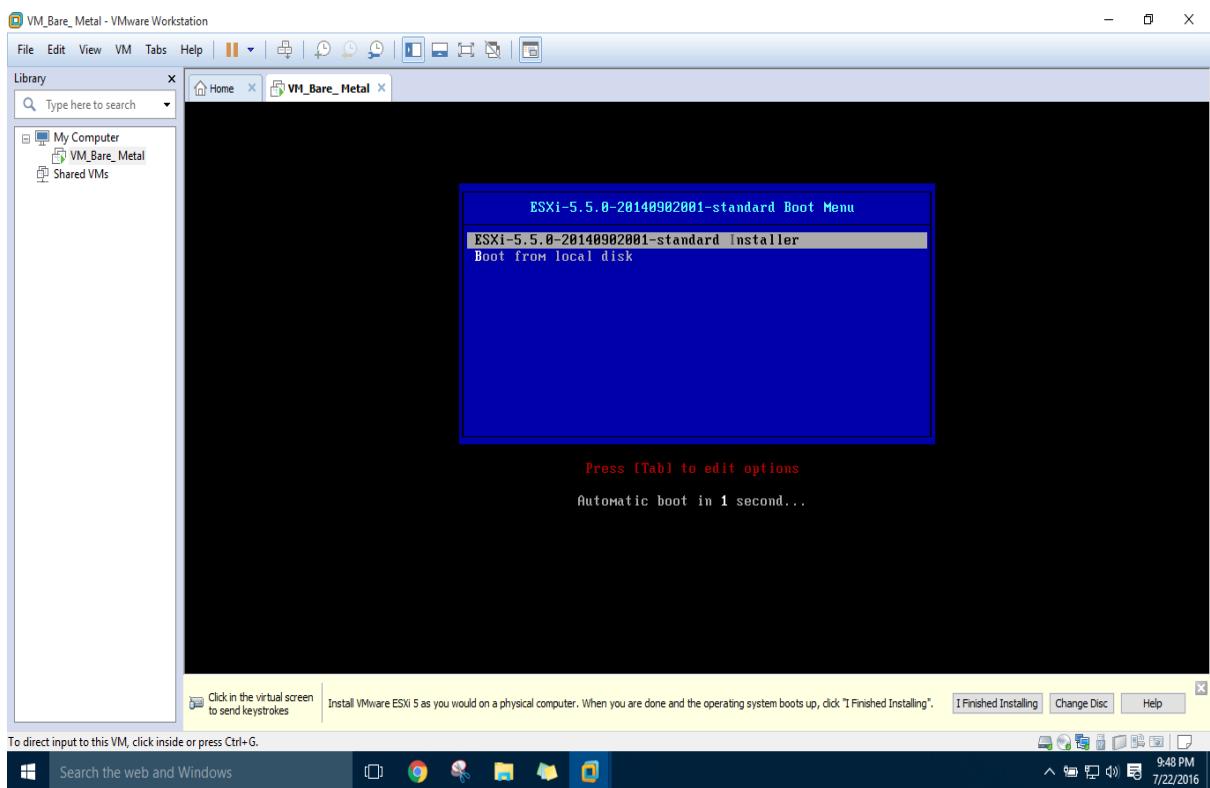
Fist of we need to install VM WorkStation. Then we create to virtual machine .

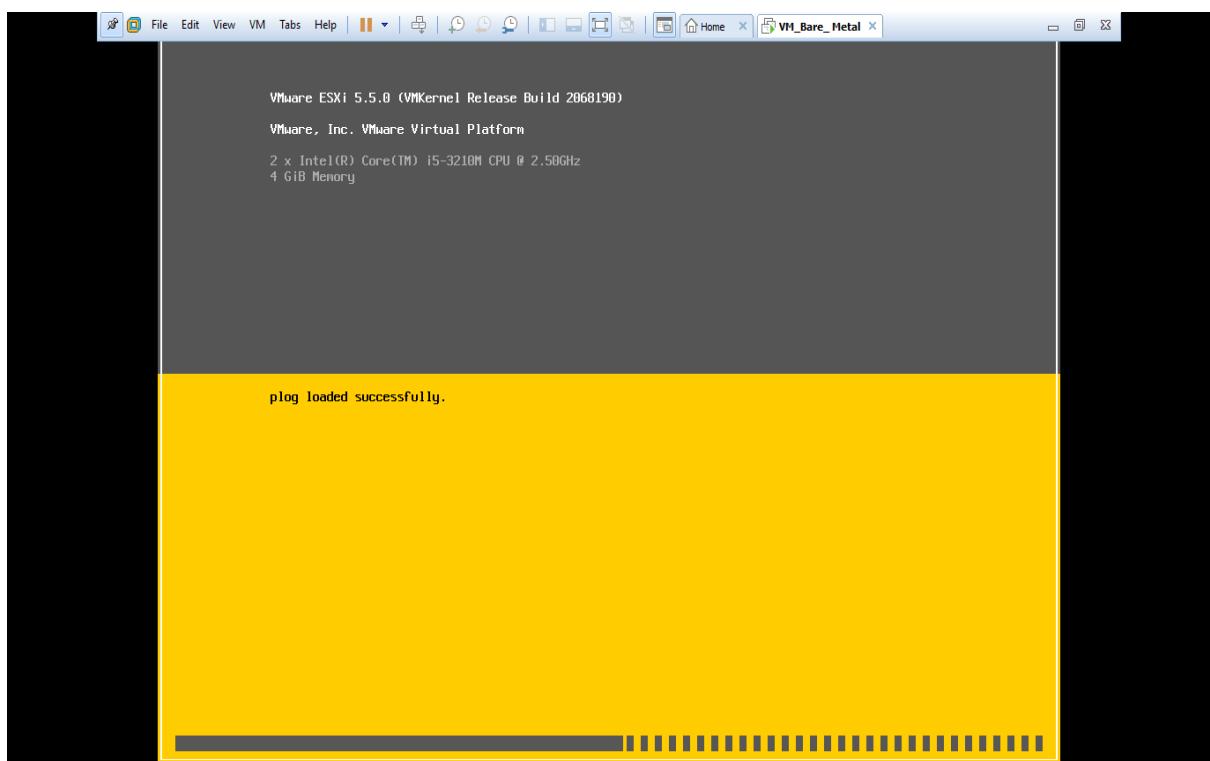
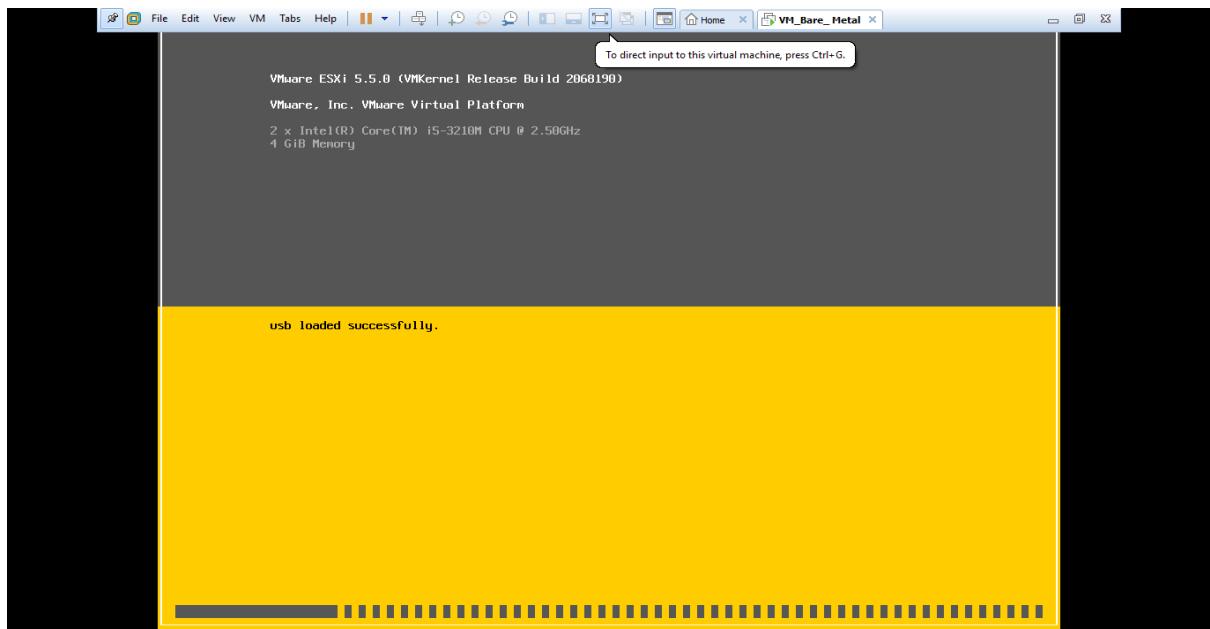


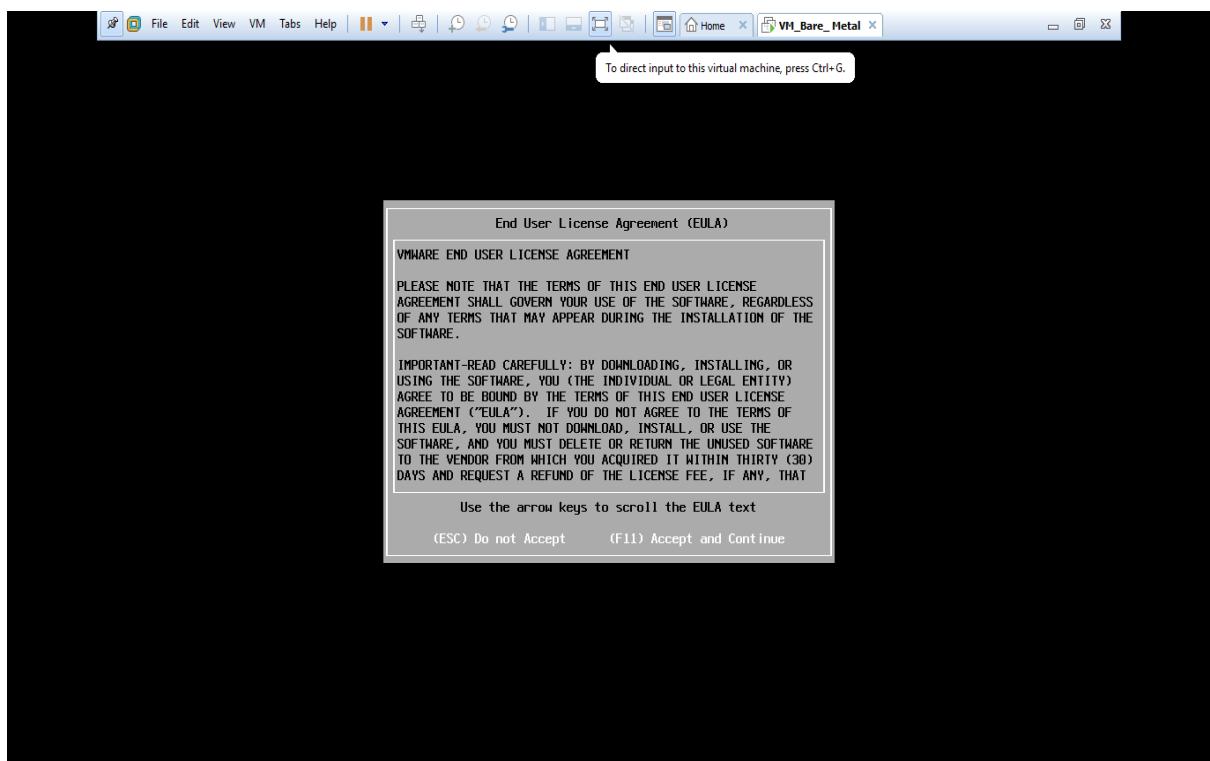
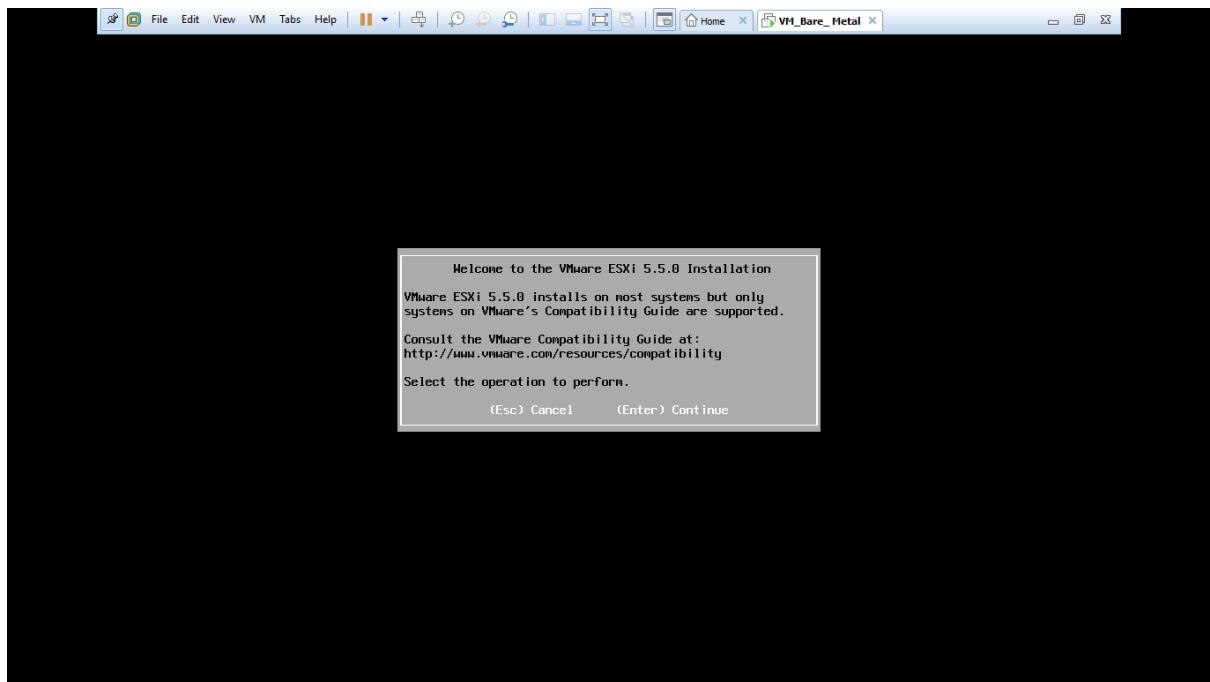


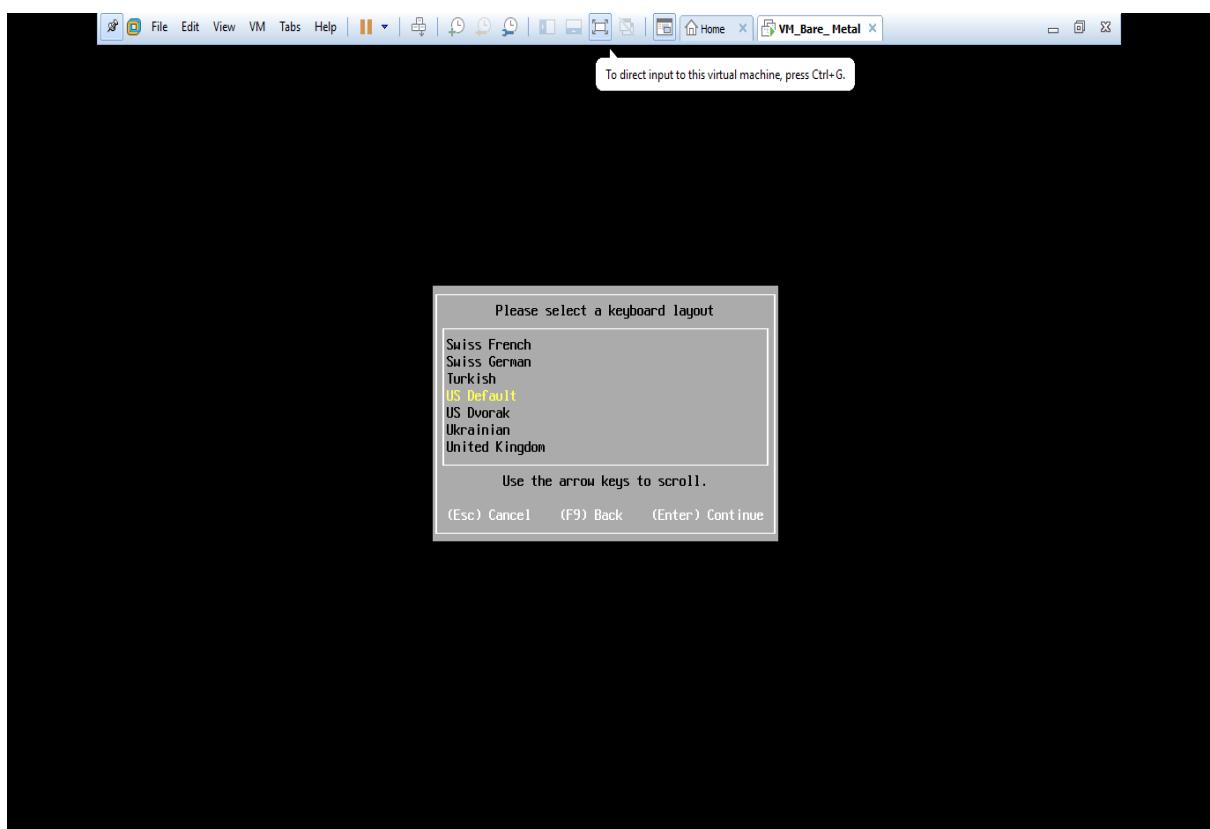
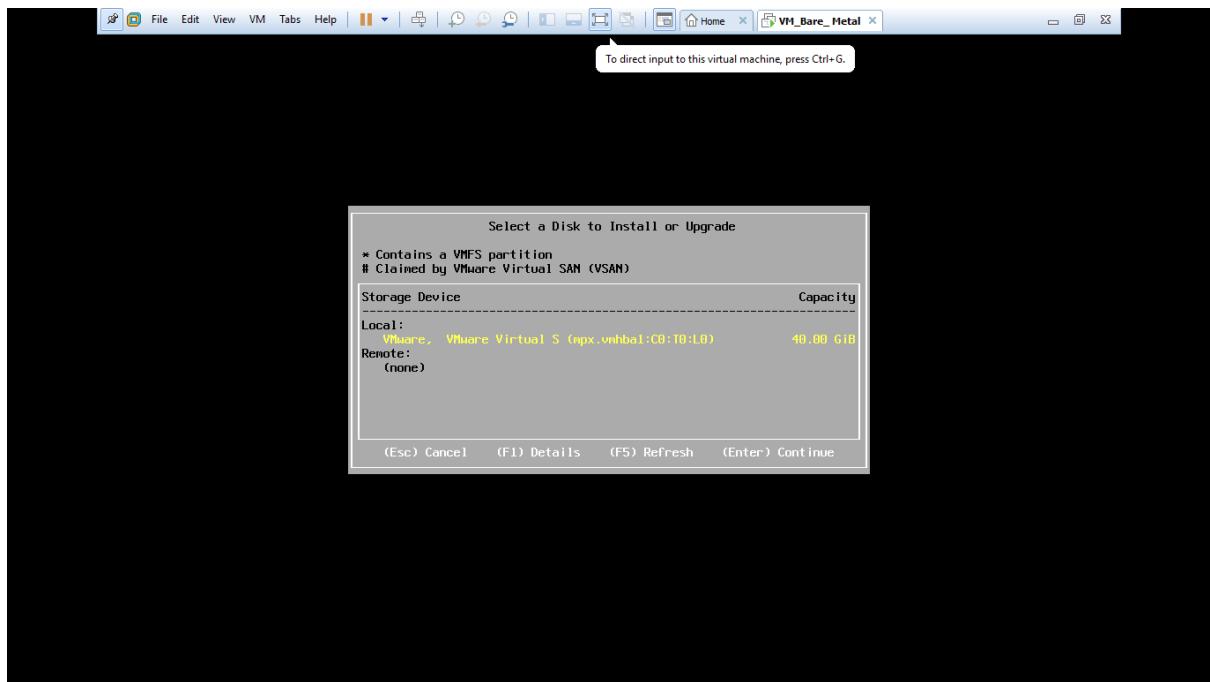


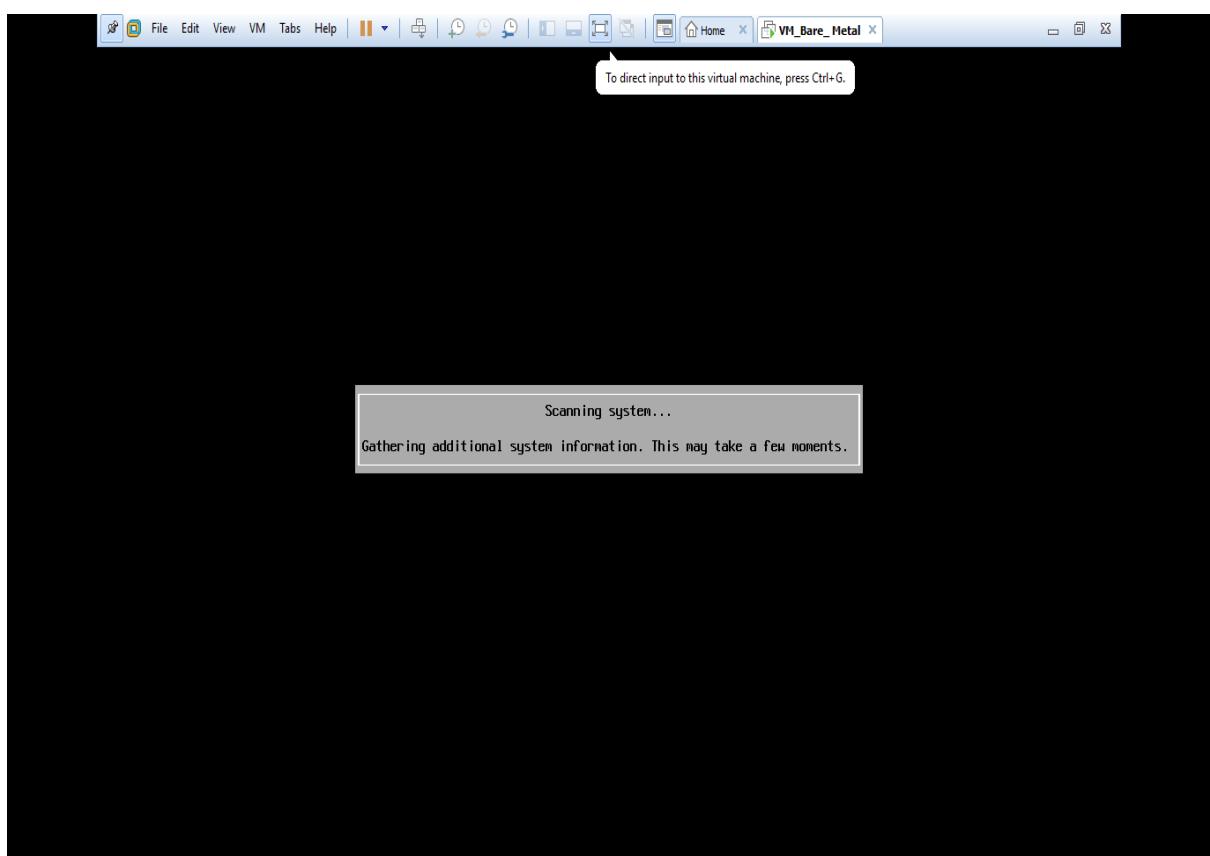
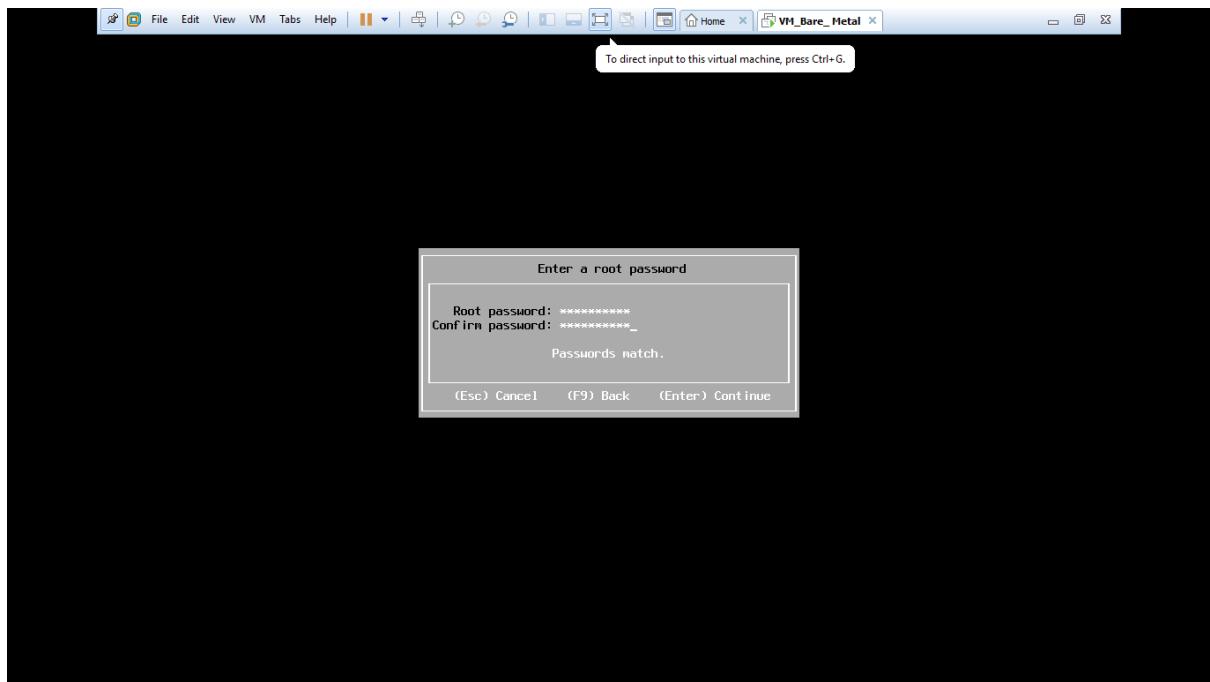
After create VM Install Baremetal

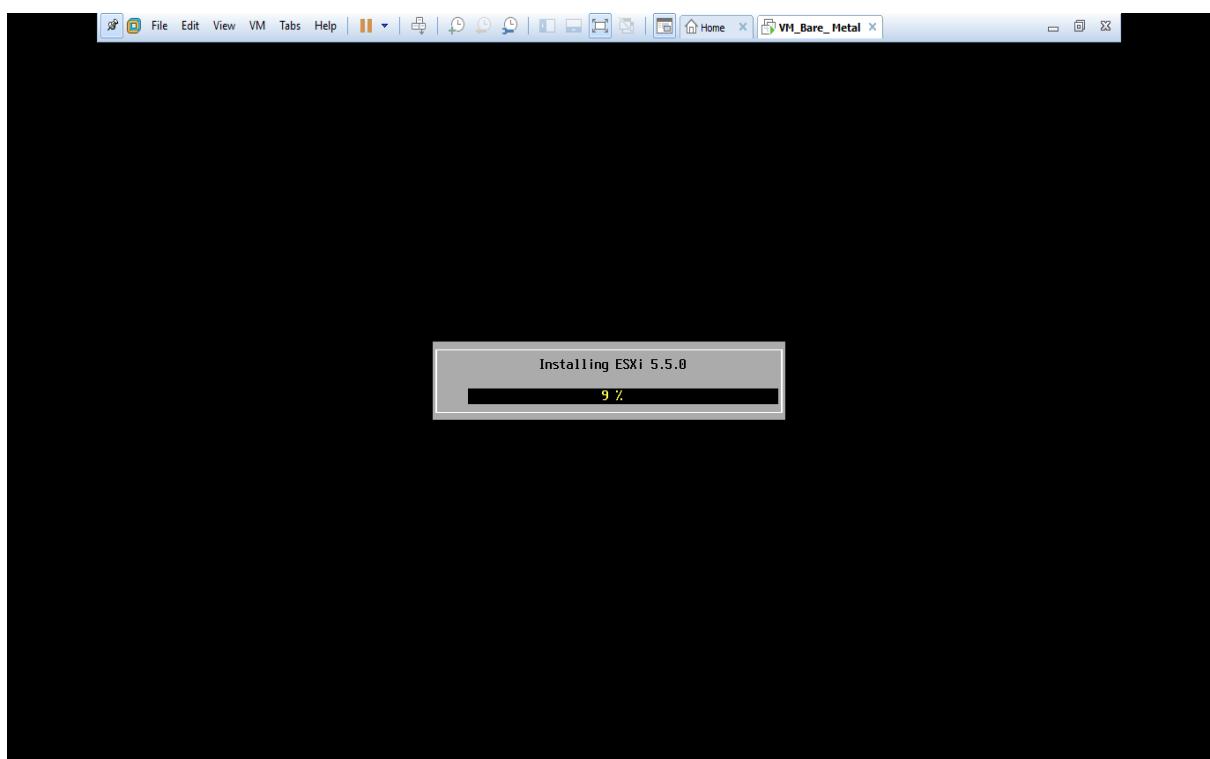
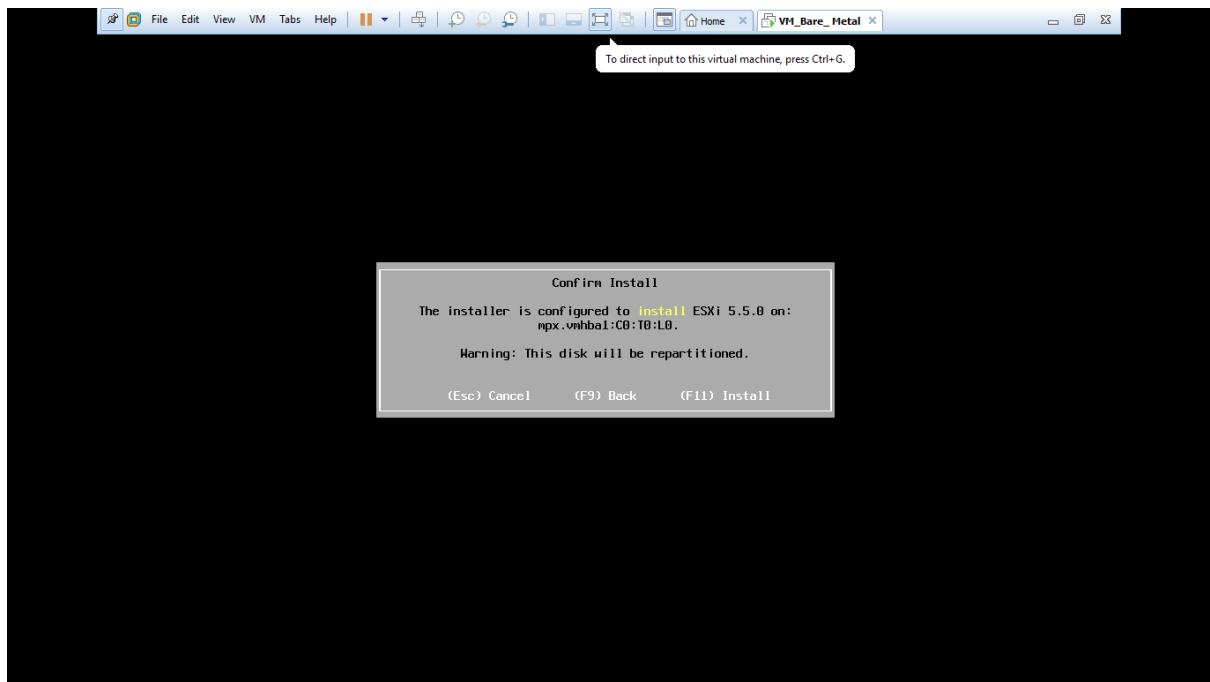


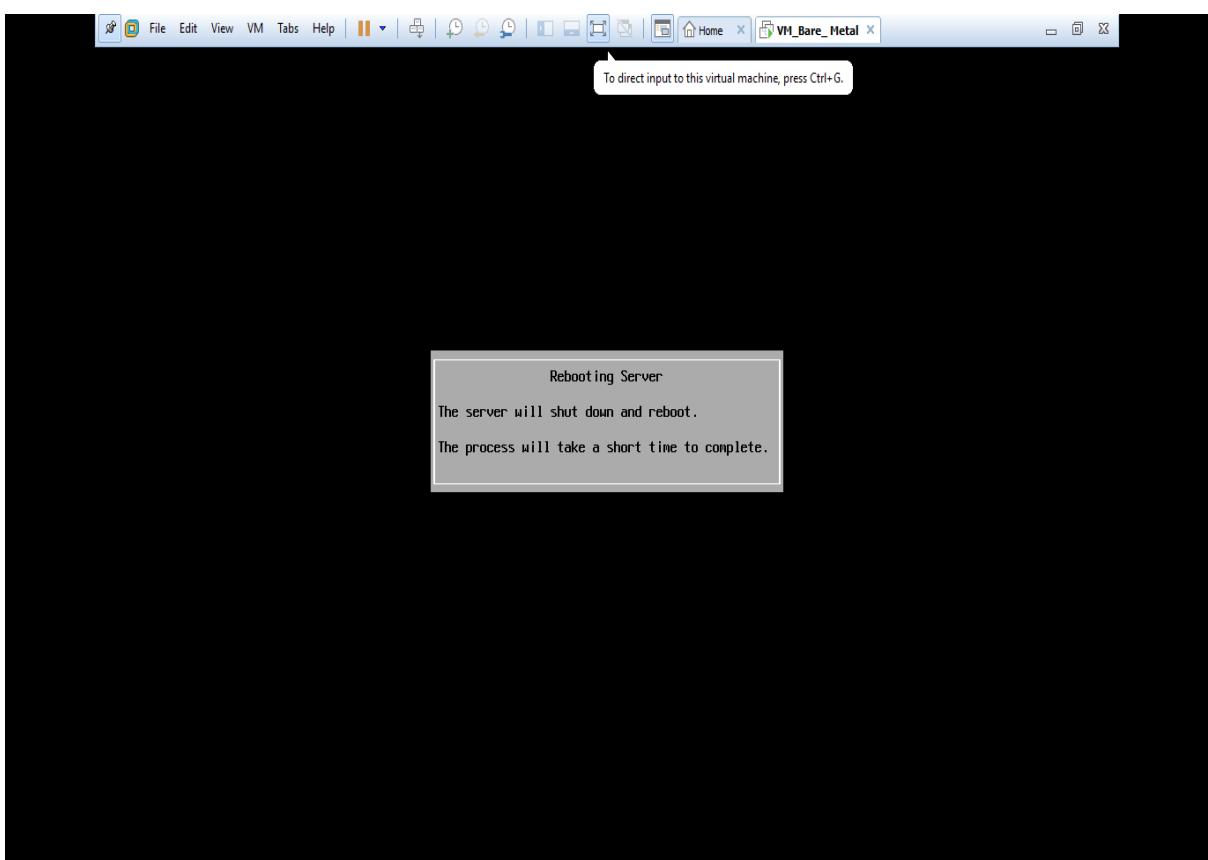
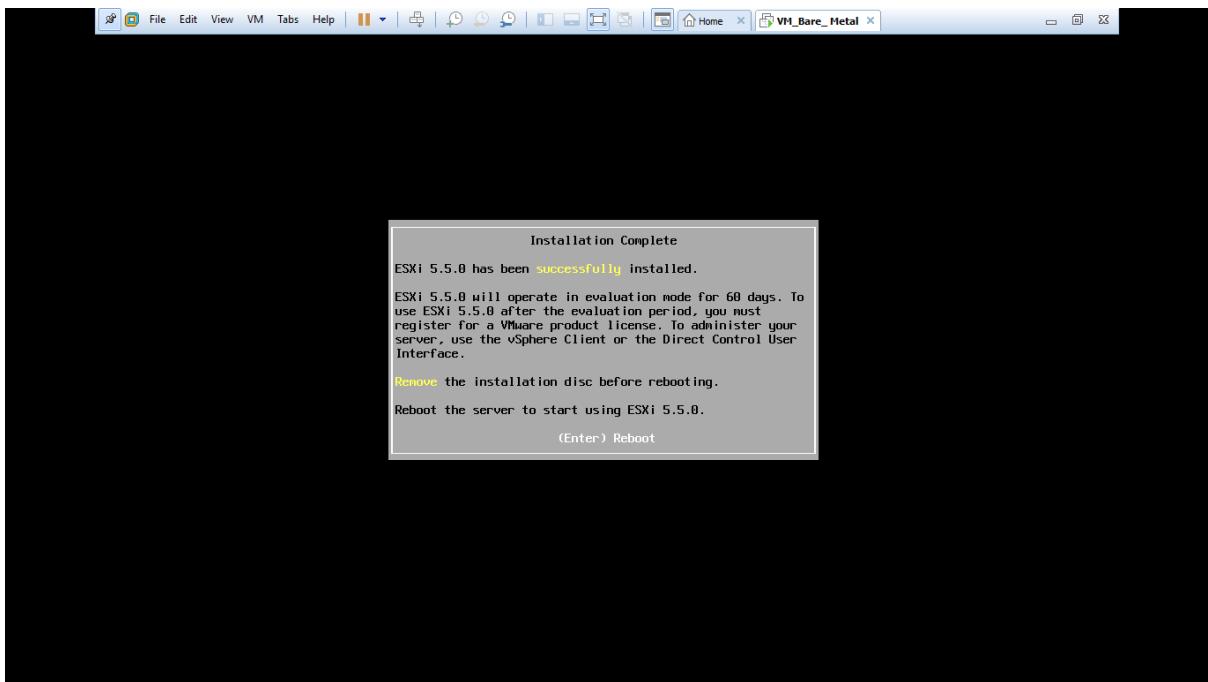


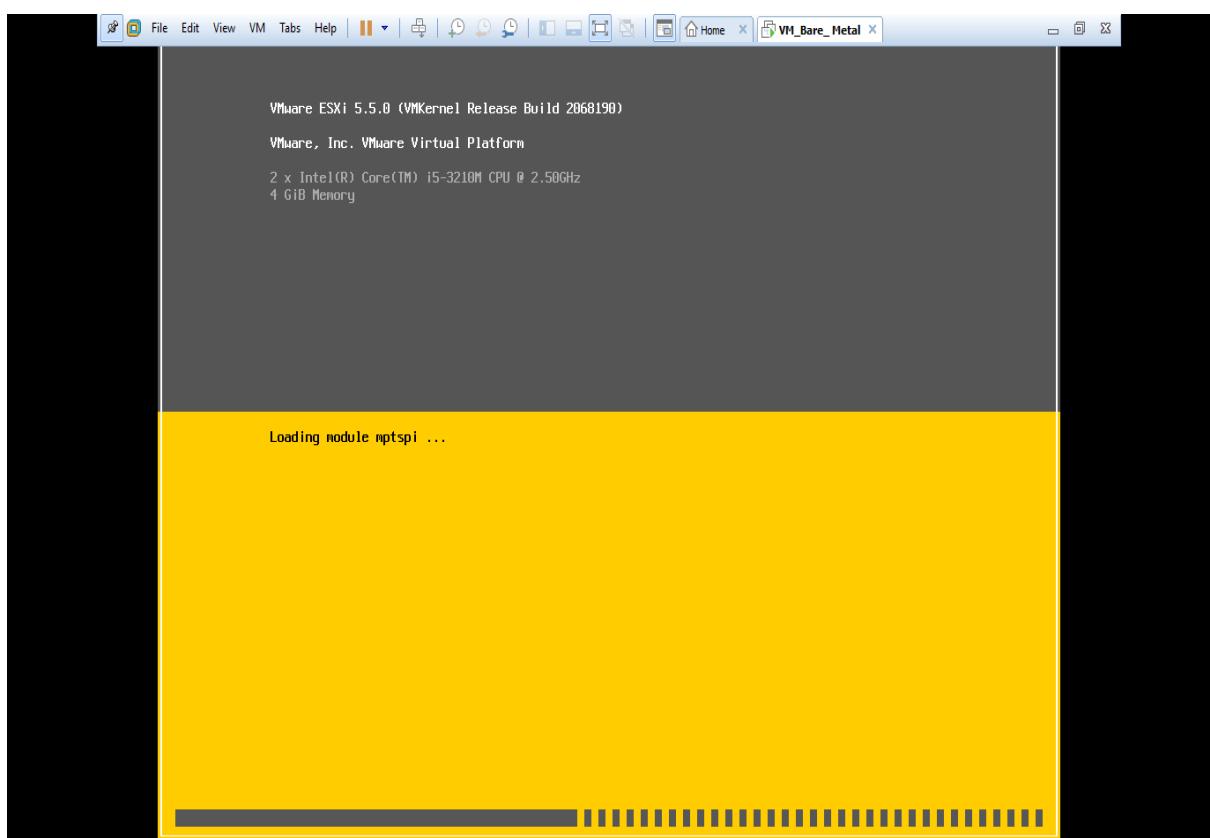
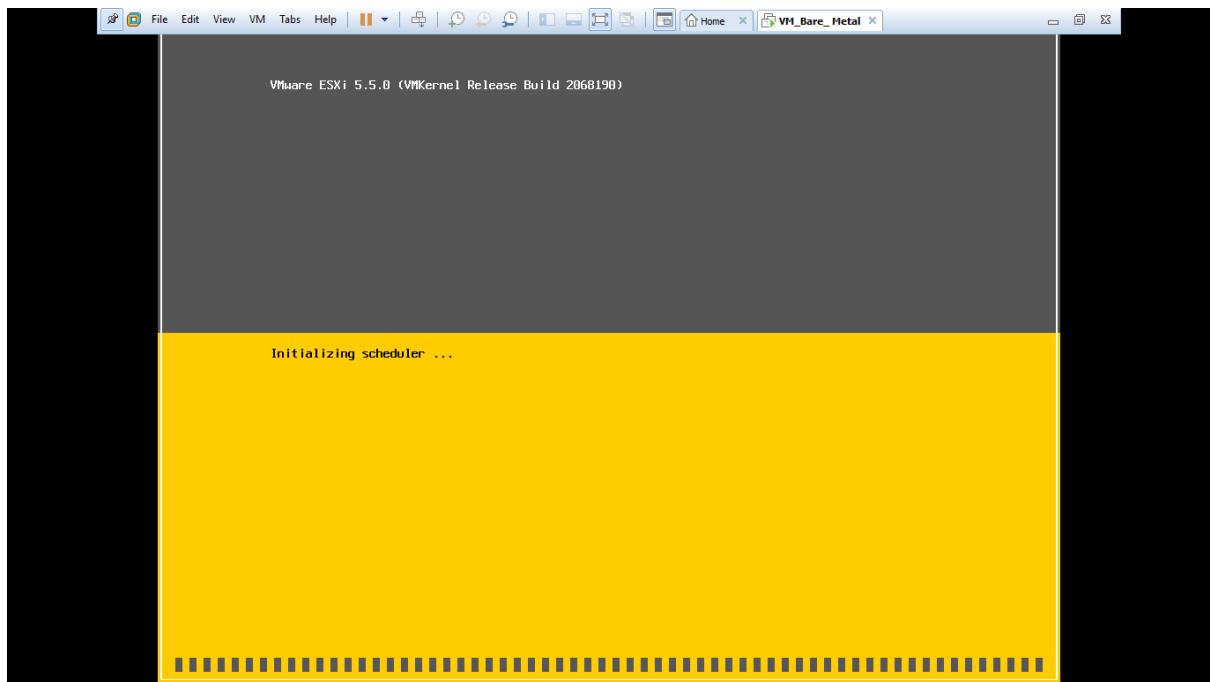


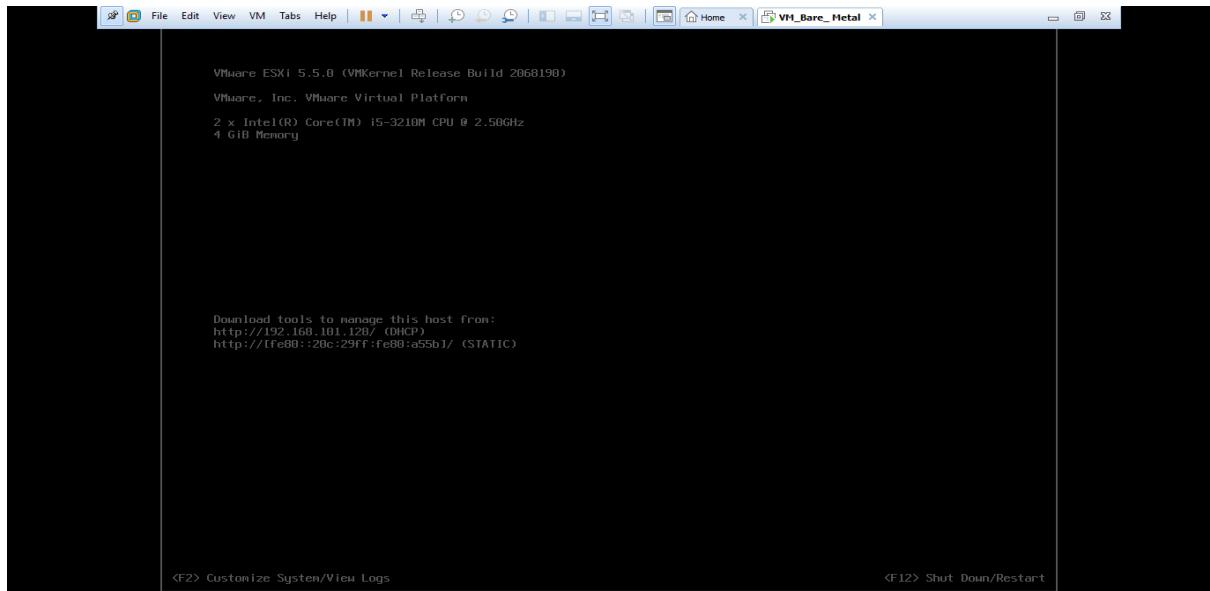




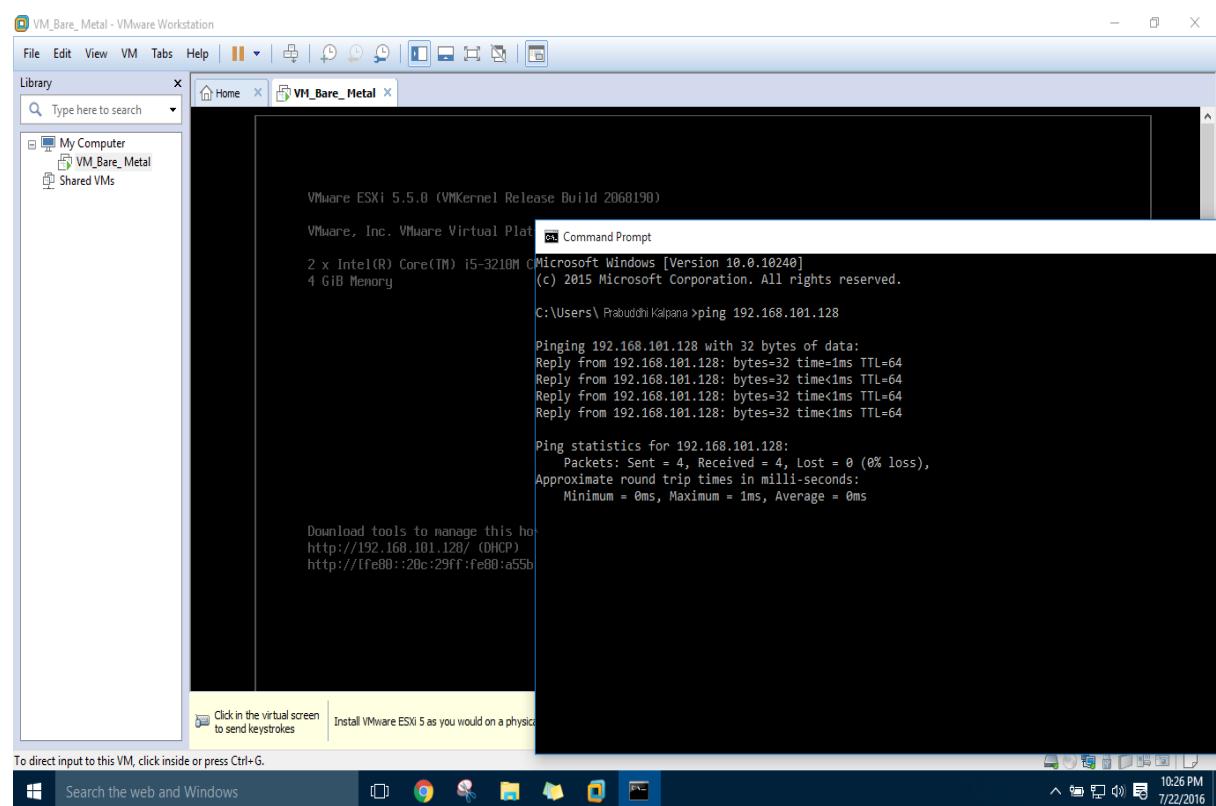


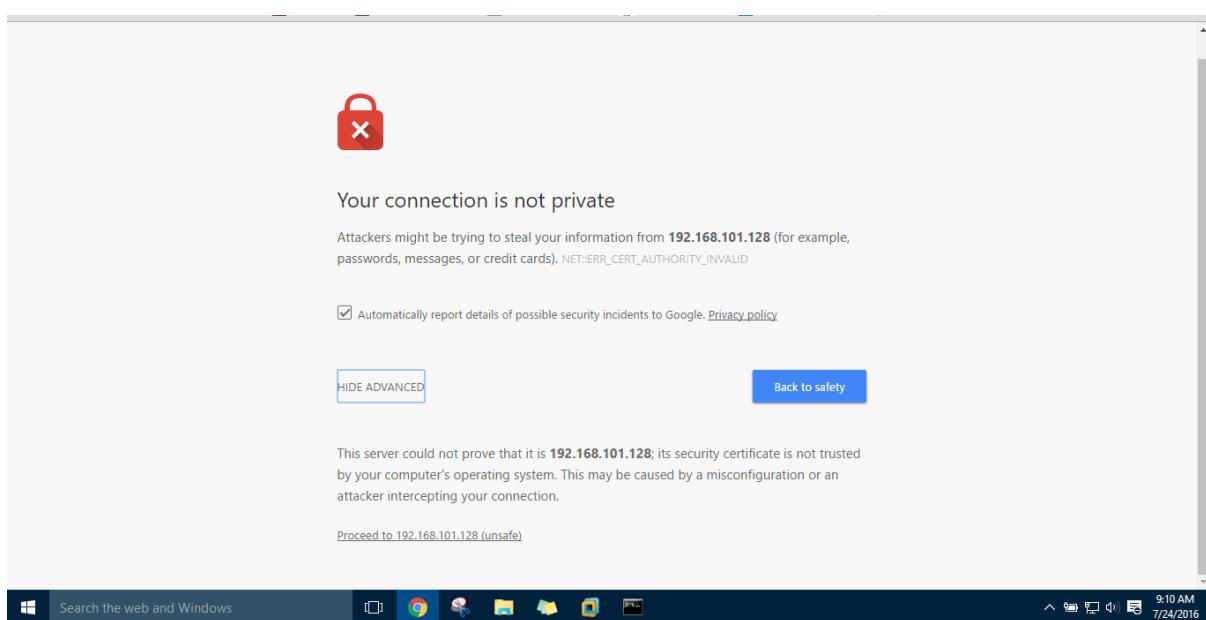
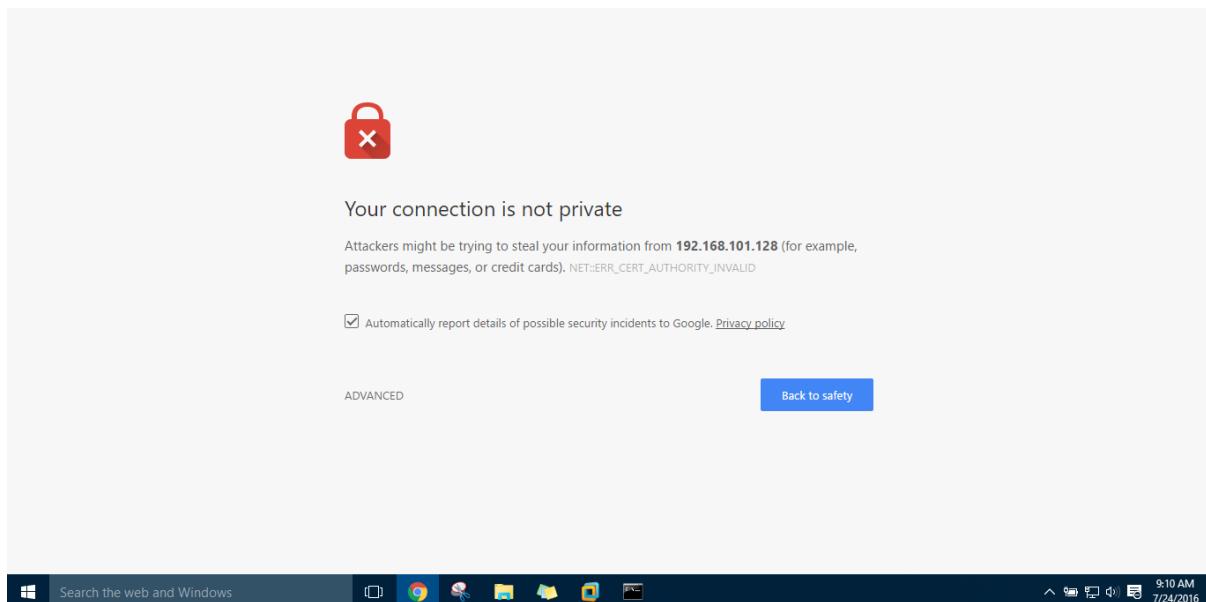


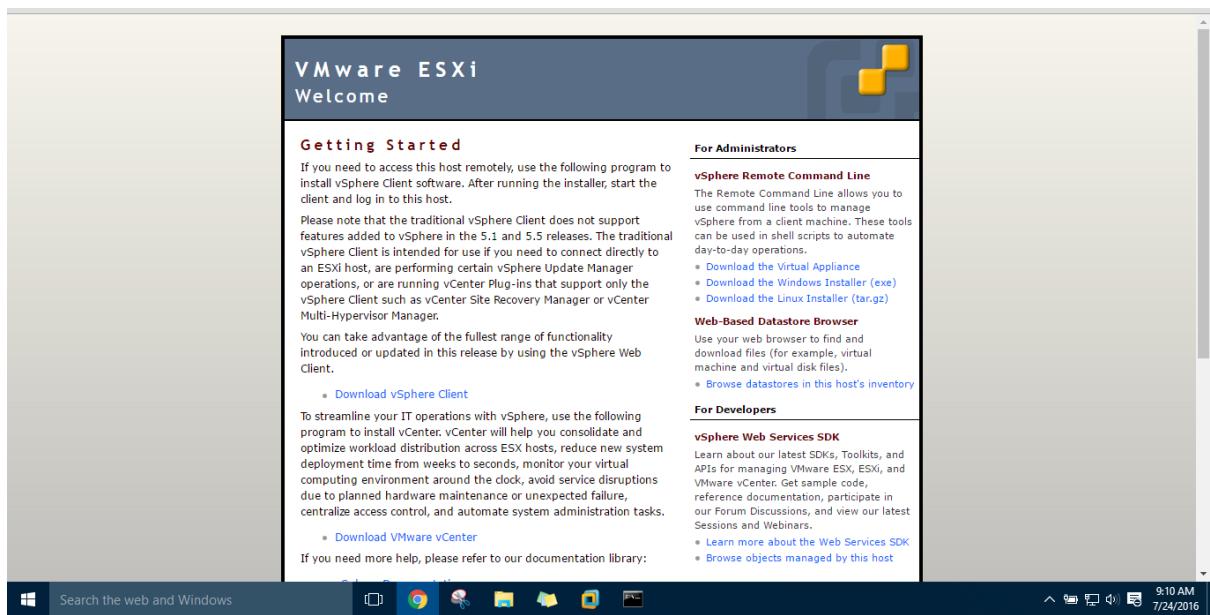




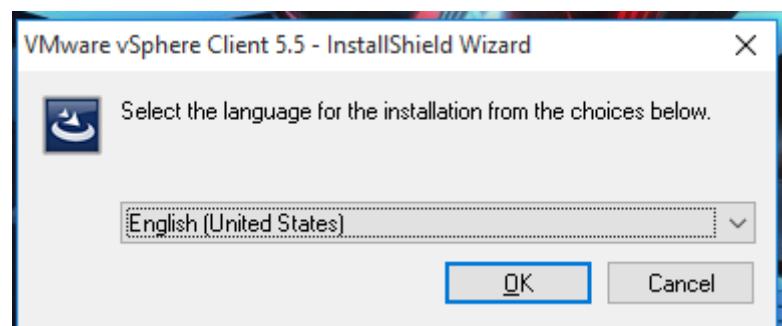
Now We are create the Server .

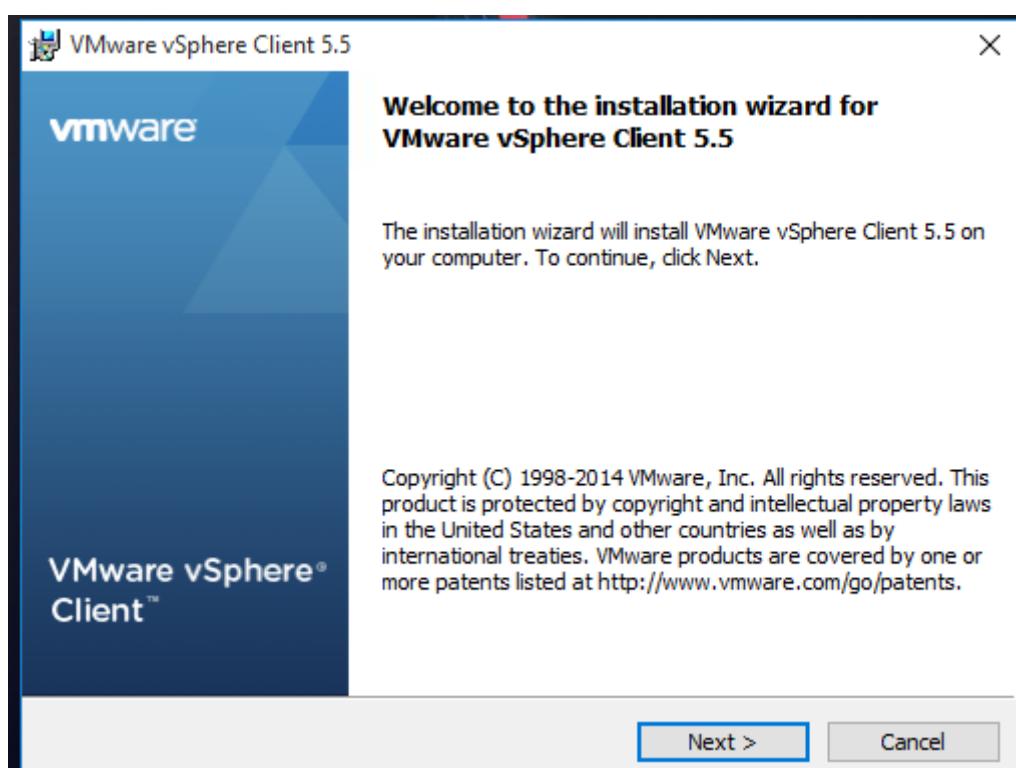
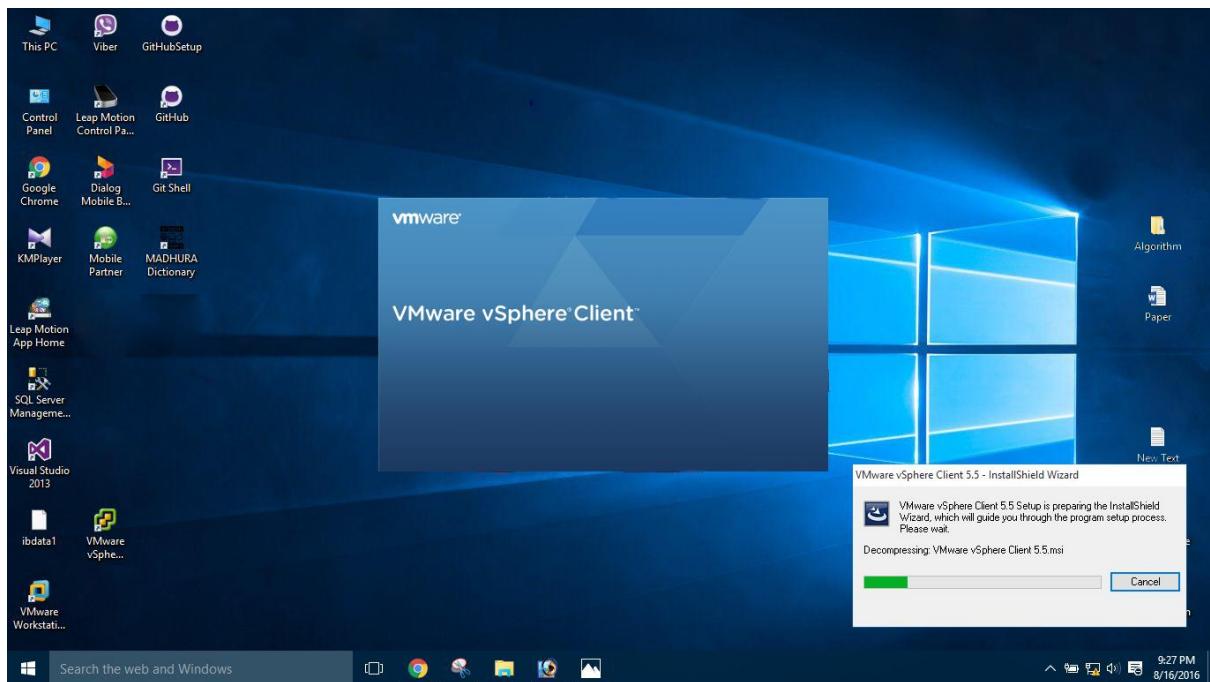


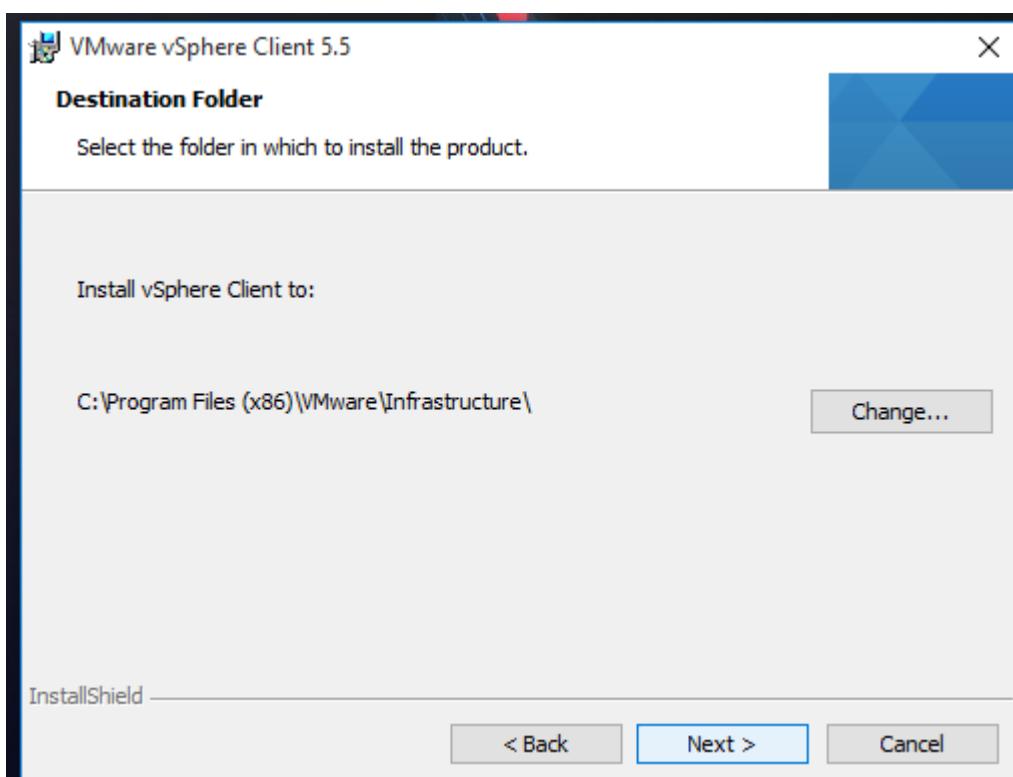
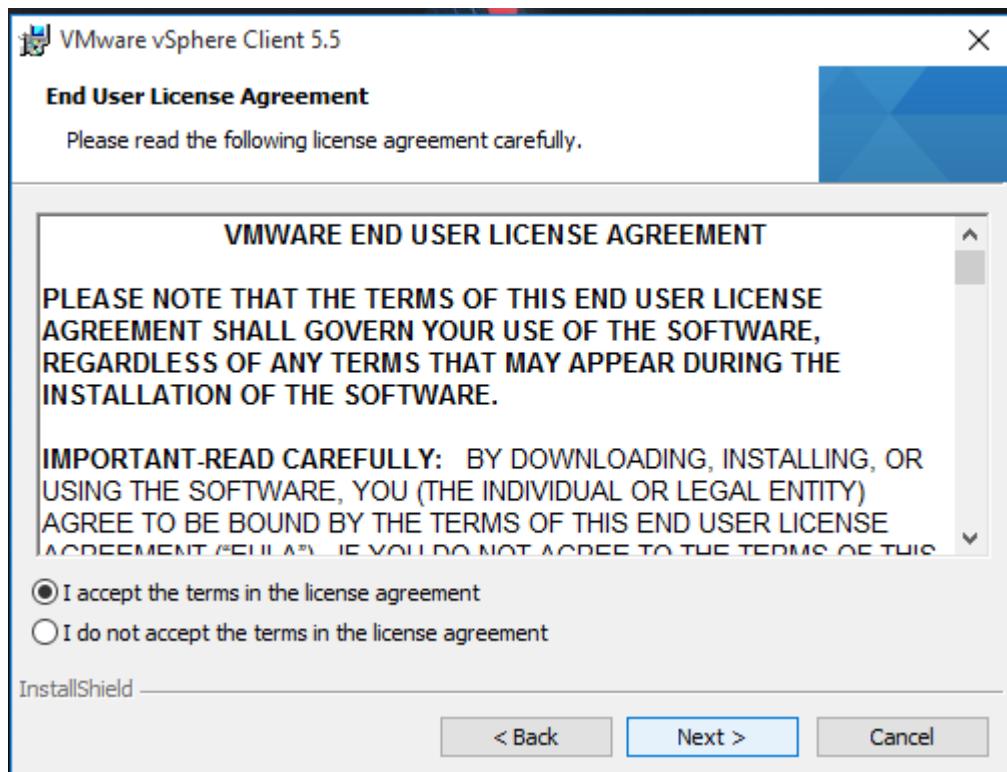


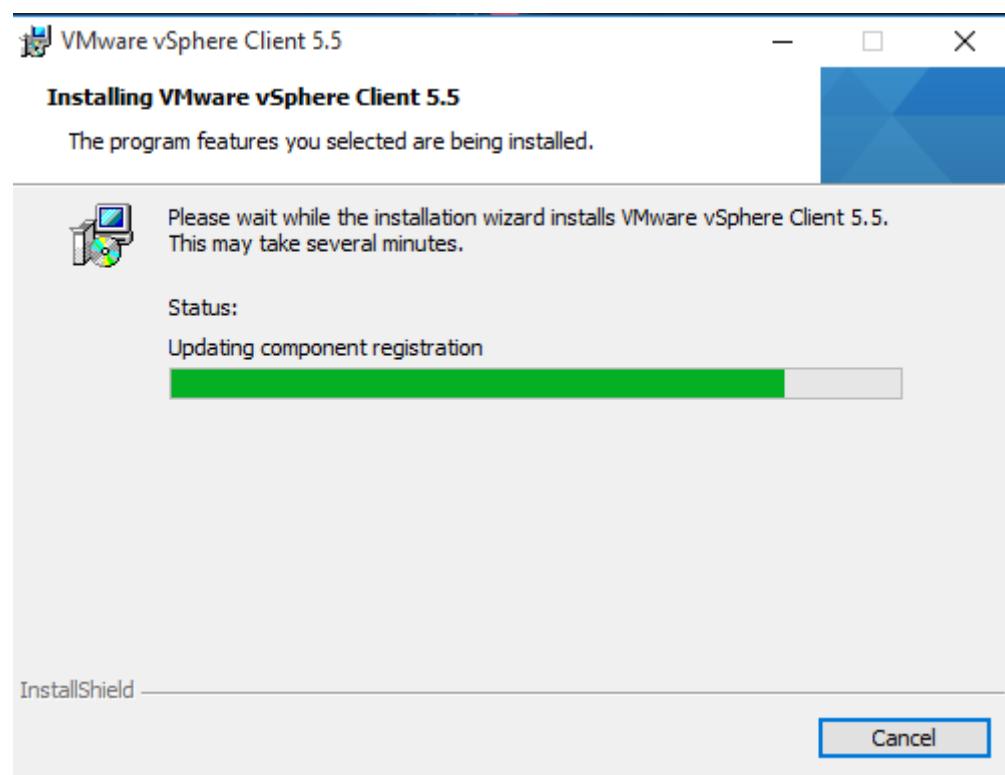
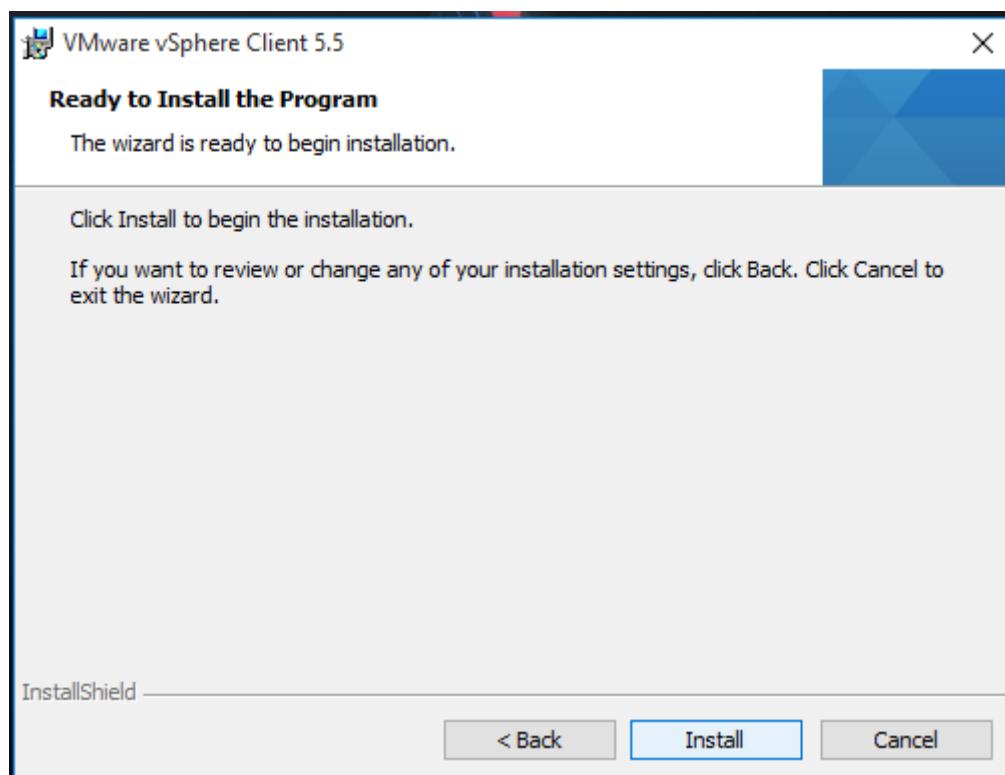


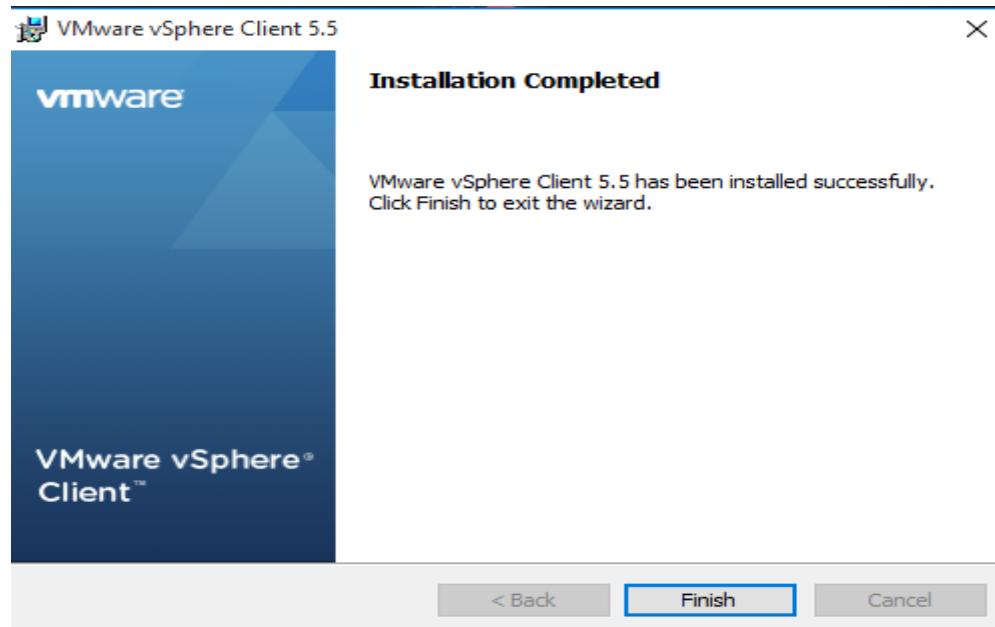
Now we need to install VM ware Client .So that we install it .



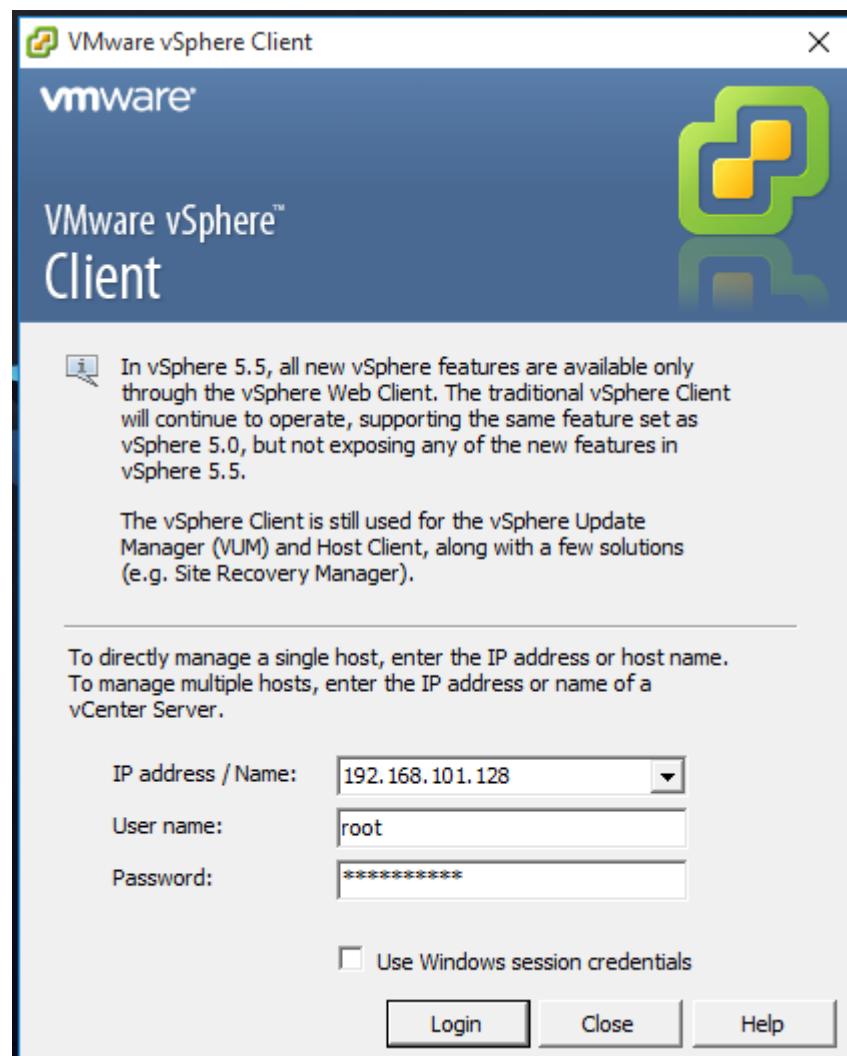


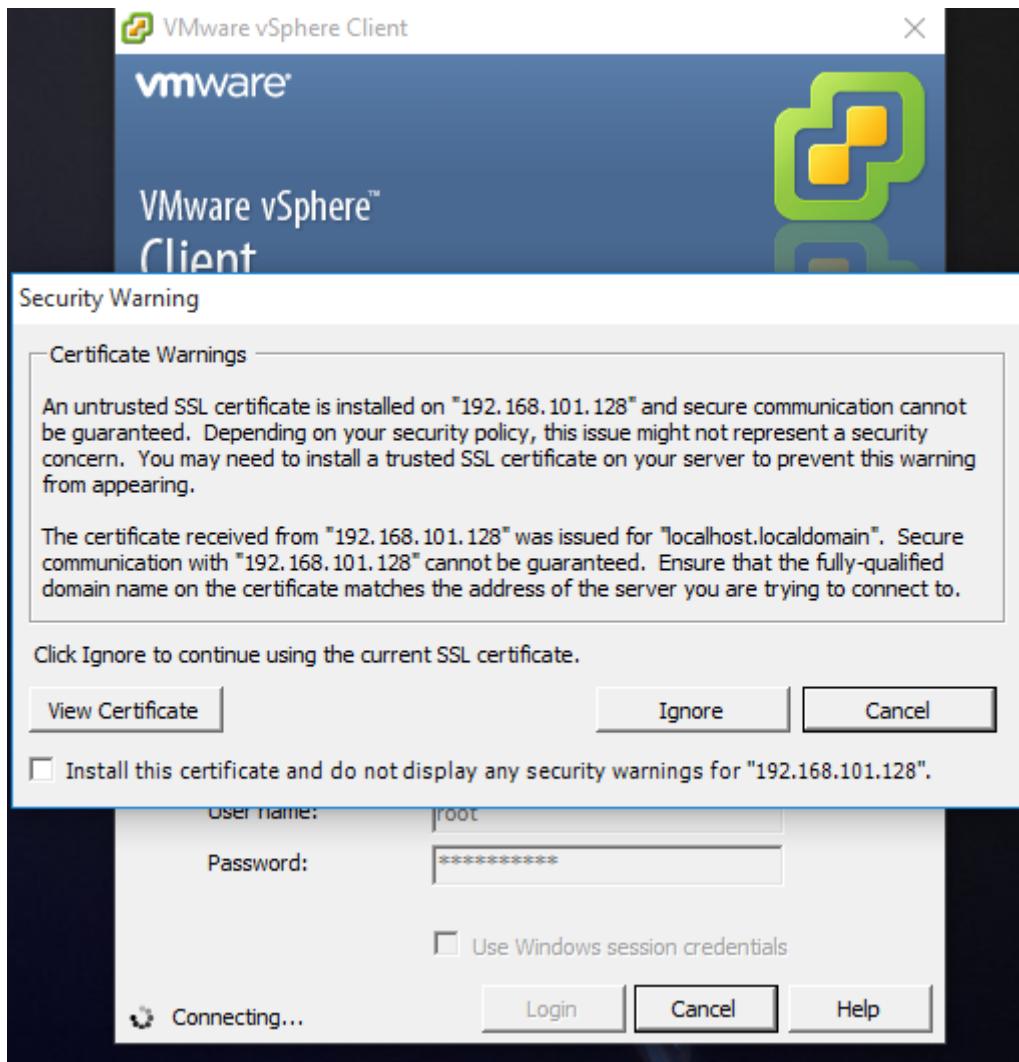


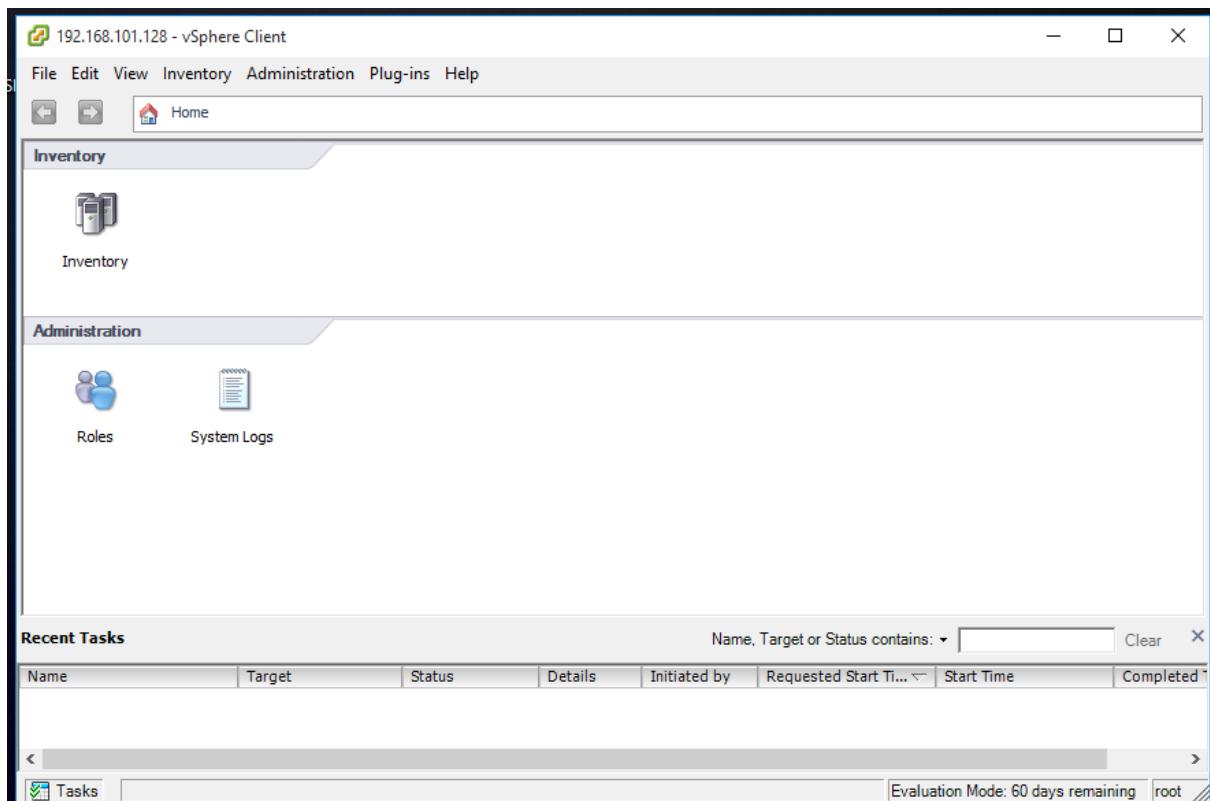




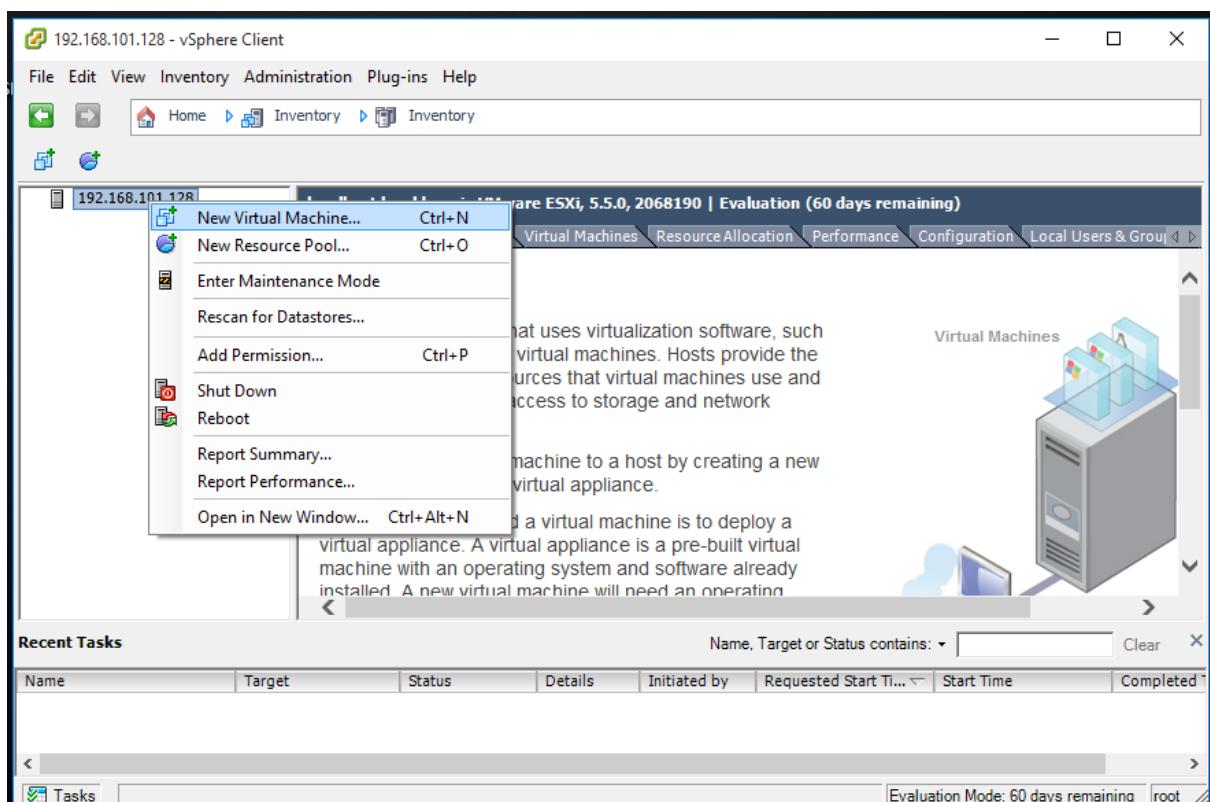
Now we can connect to the server by using IP address and password

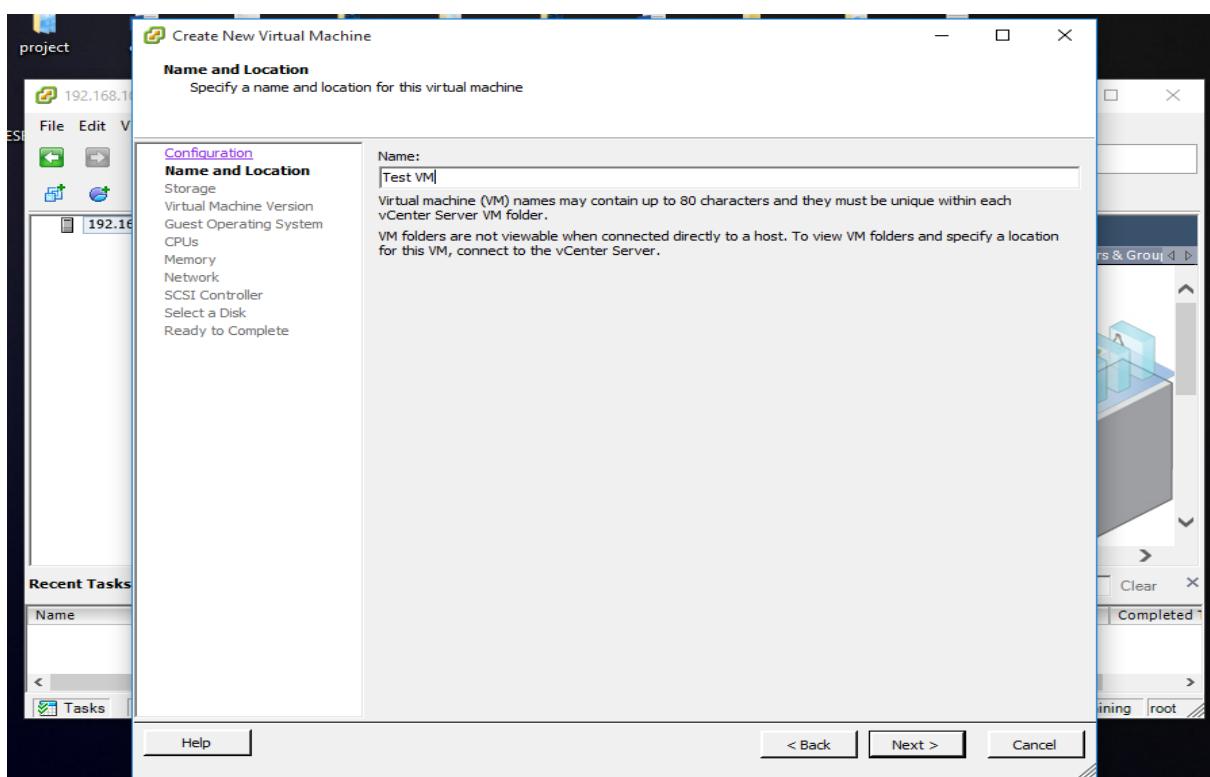
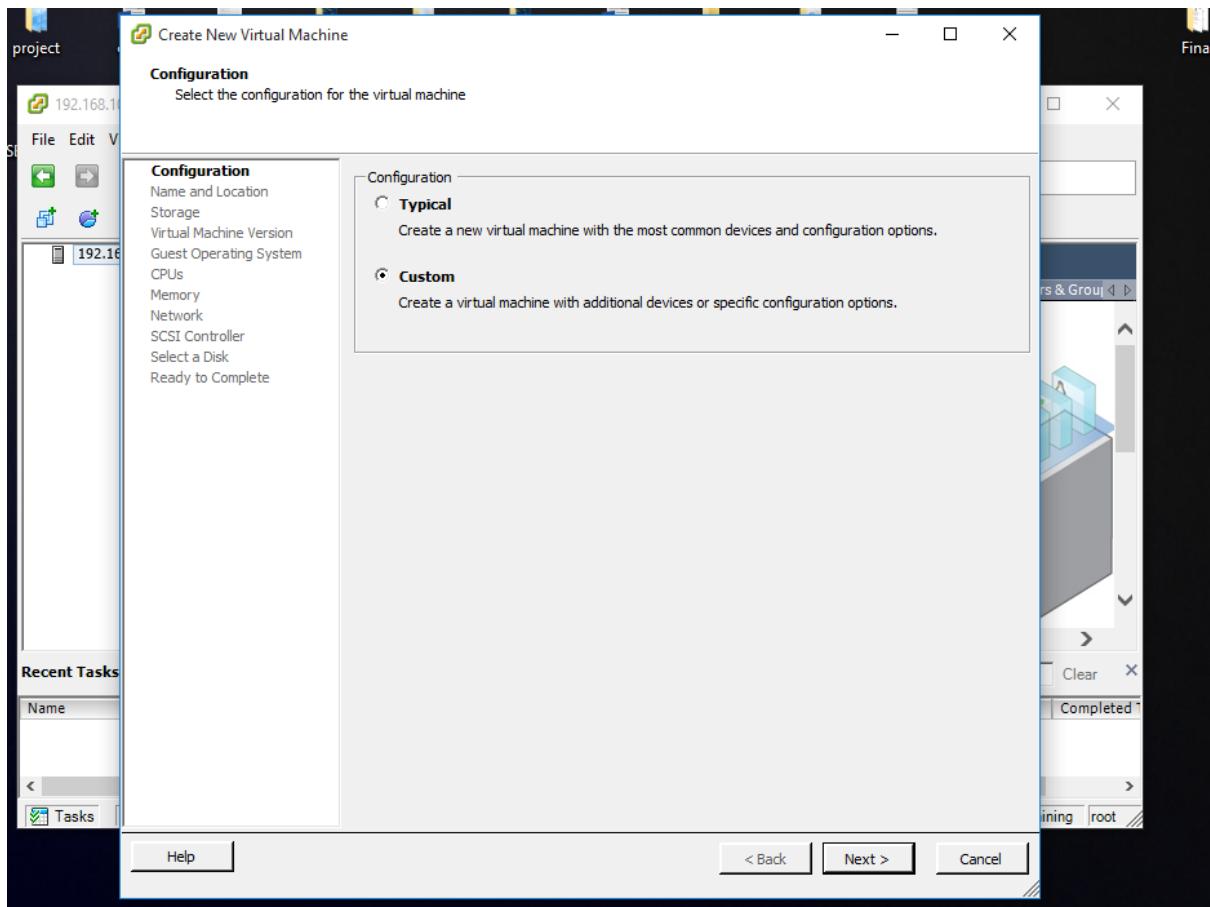


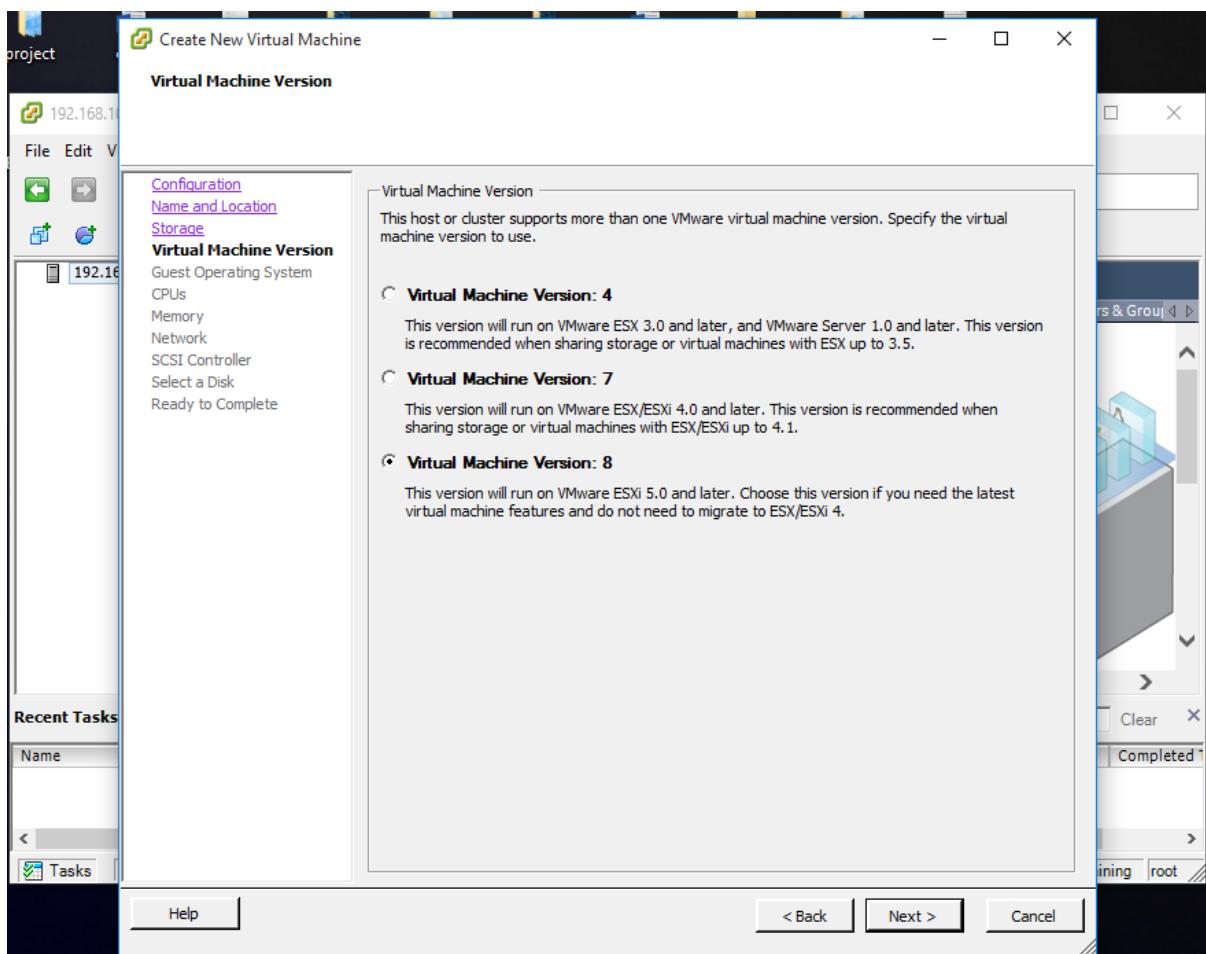
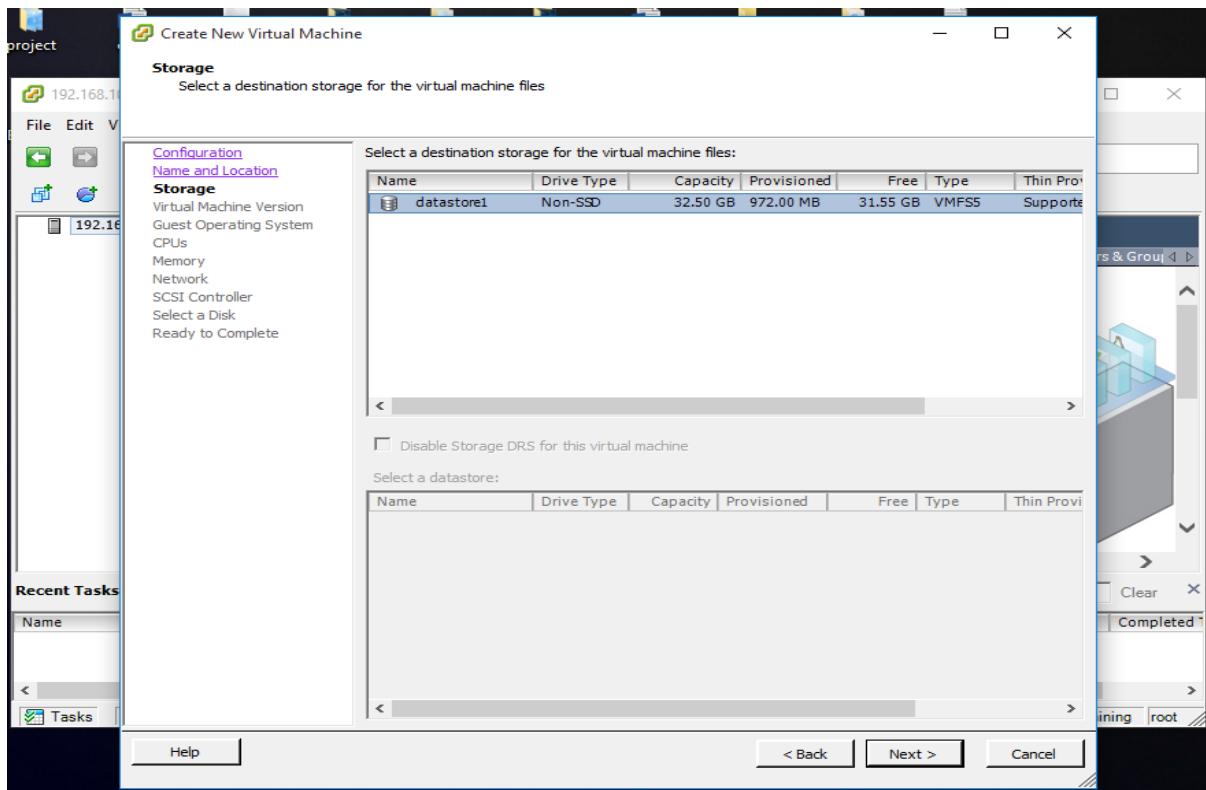


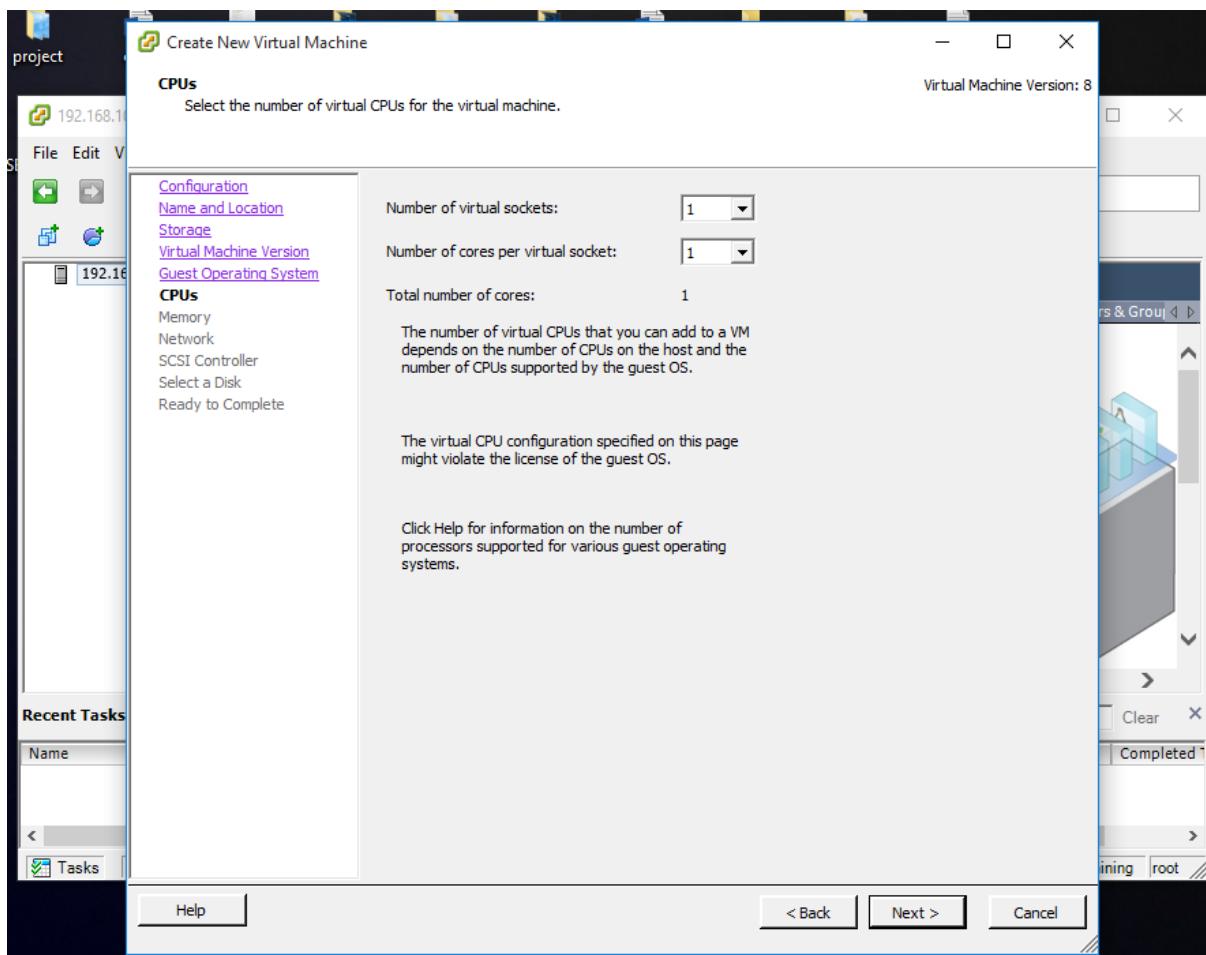
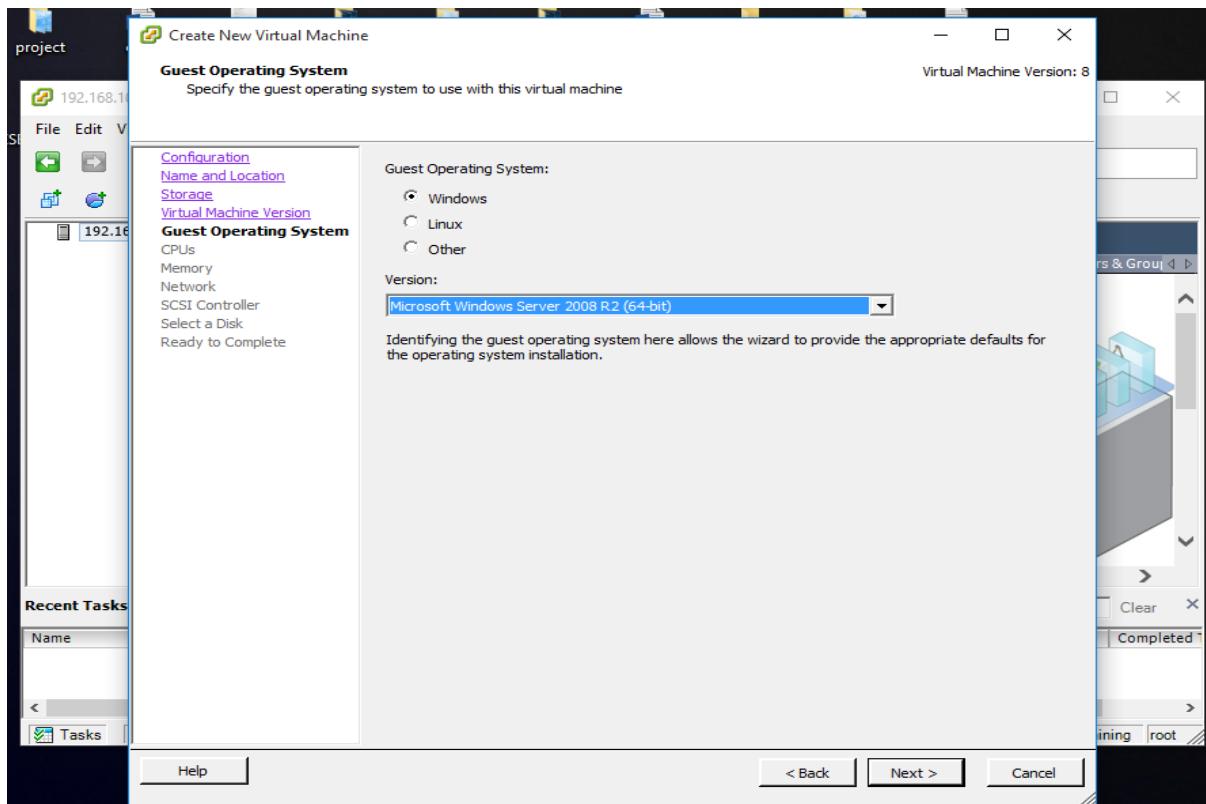


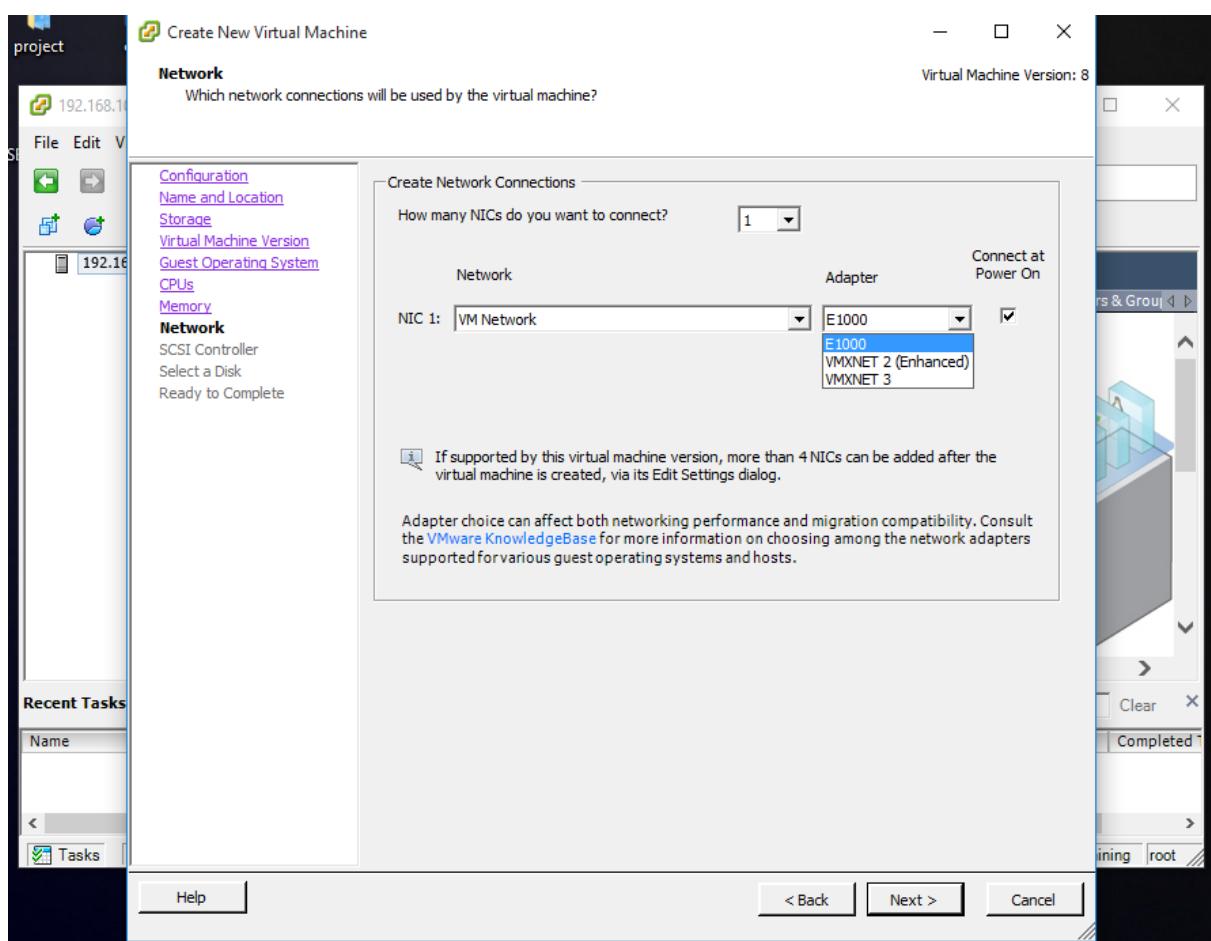
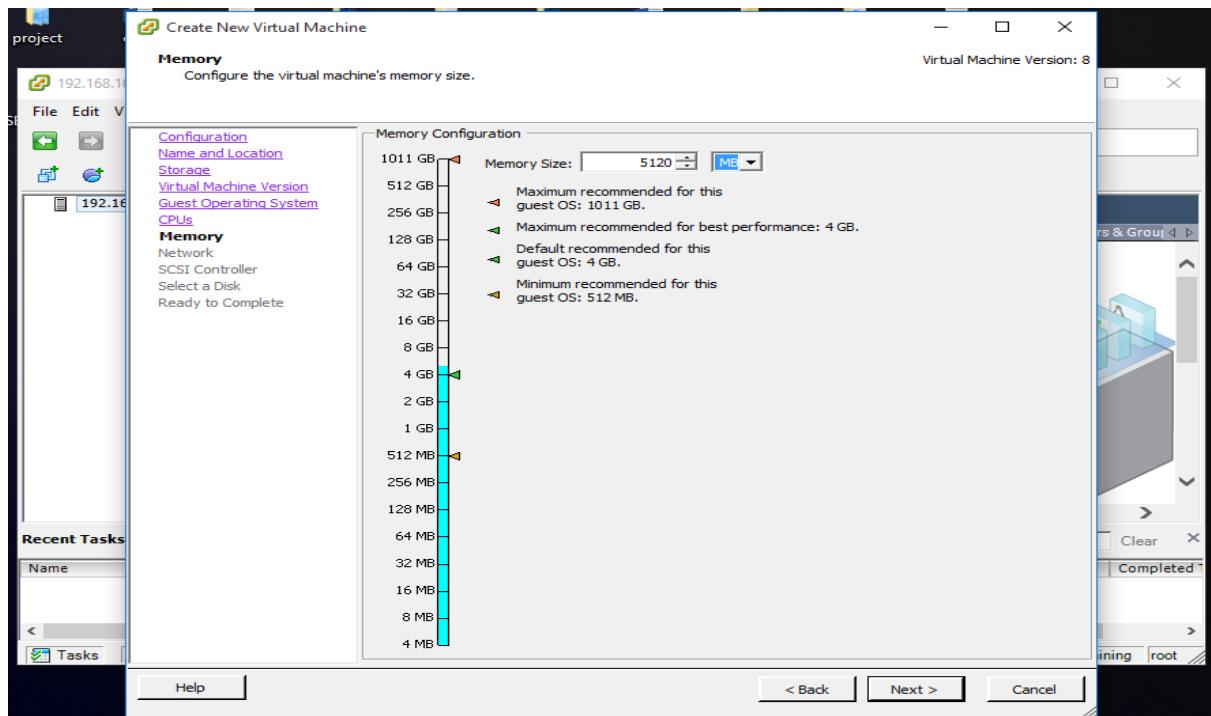
Inside this you need to create another VM to install various king OS.

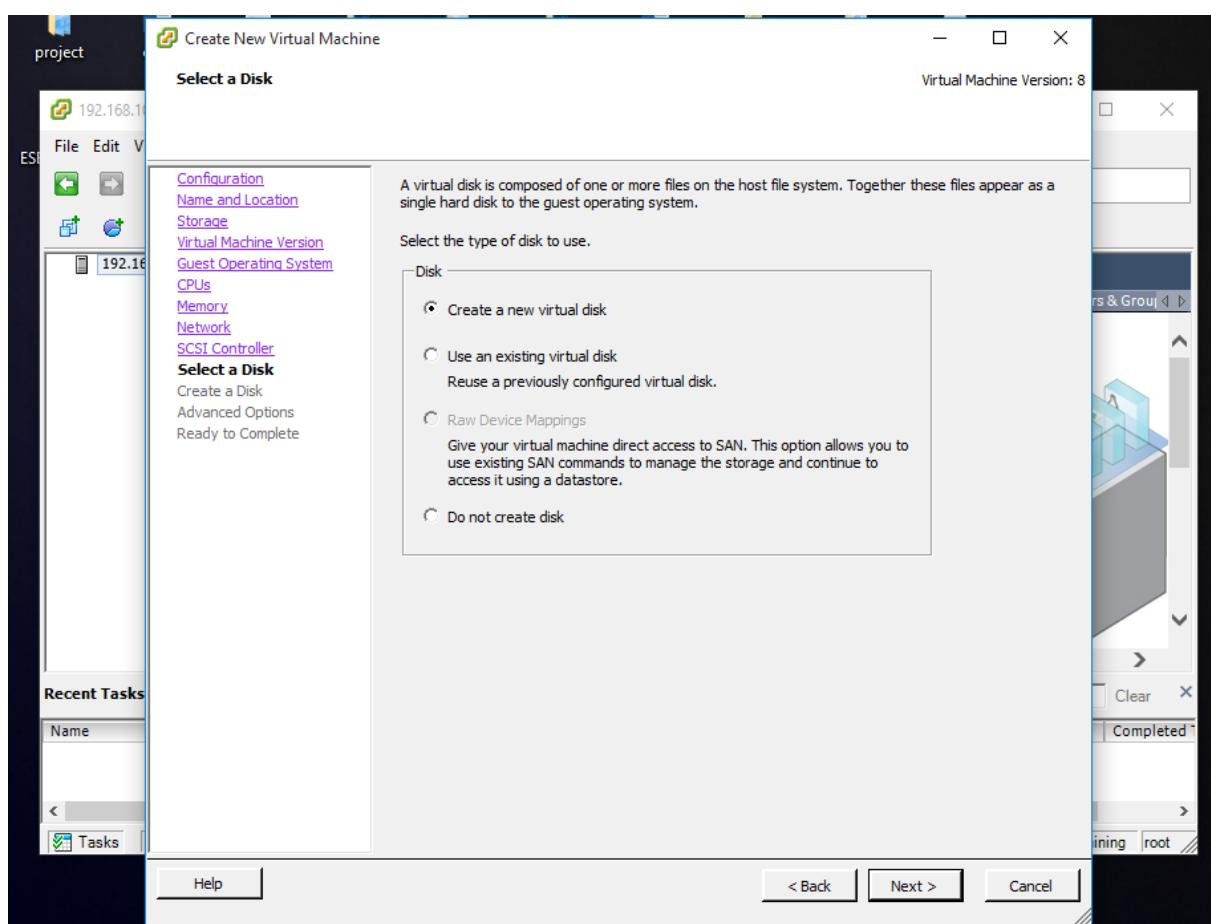
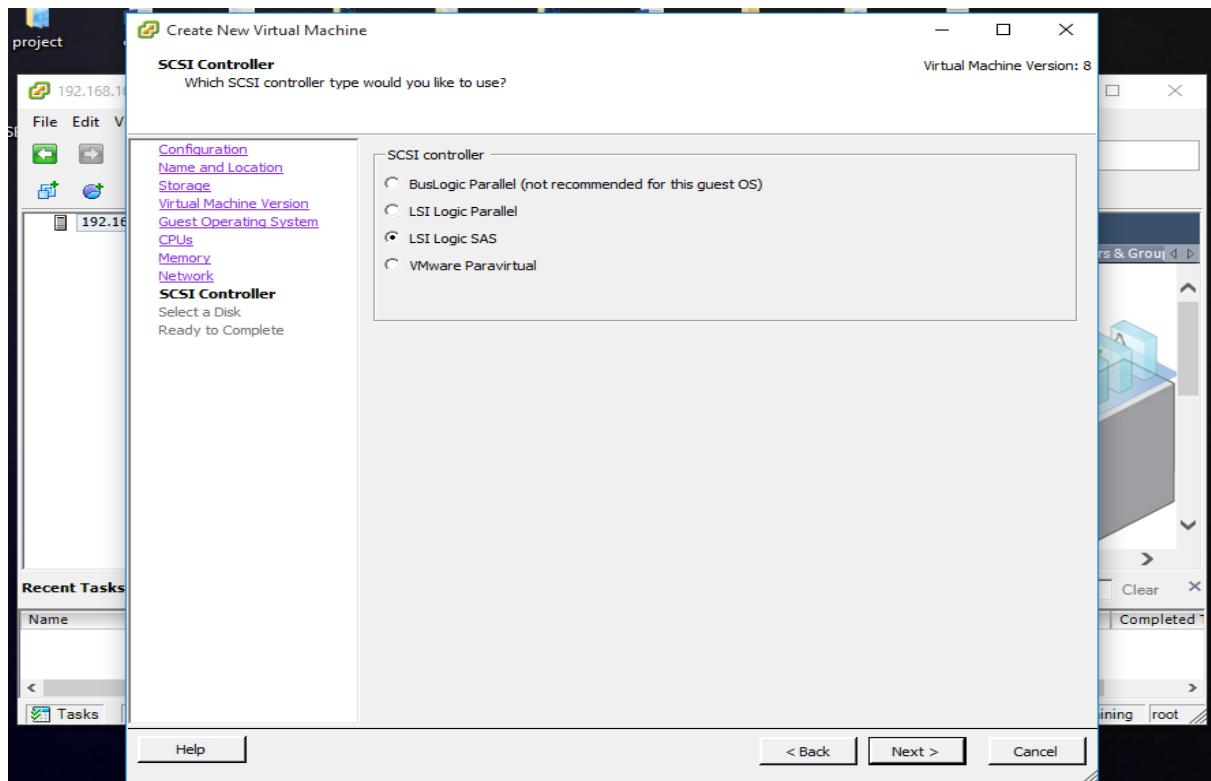


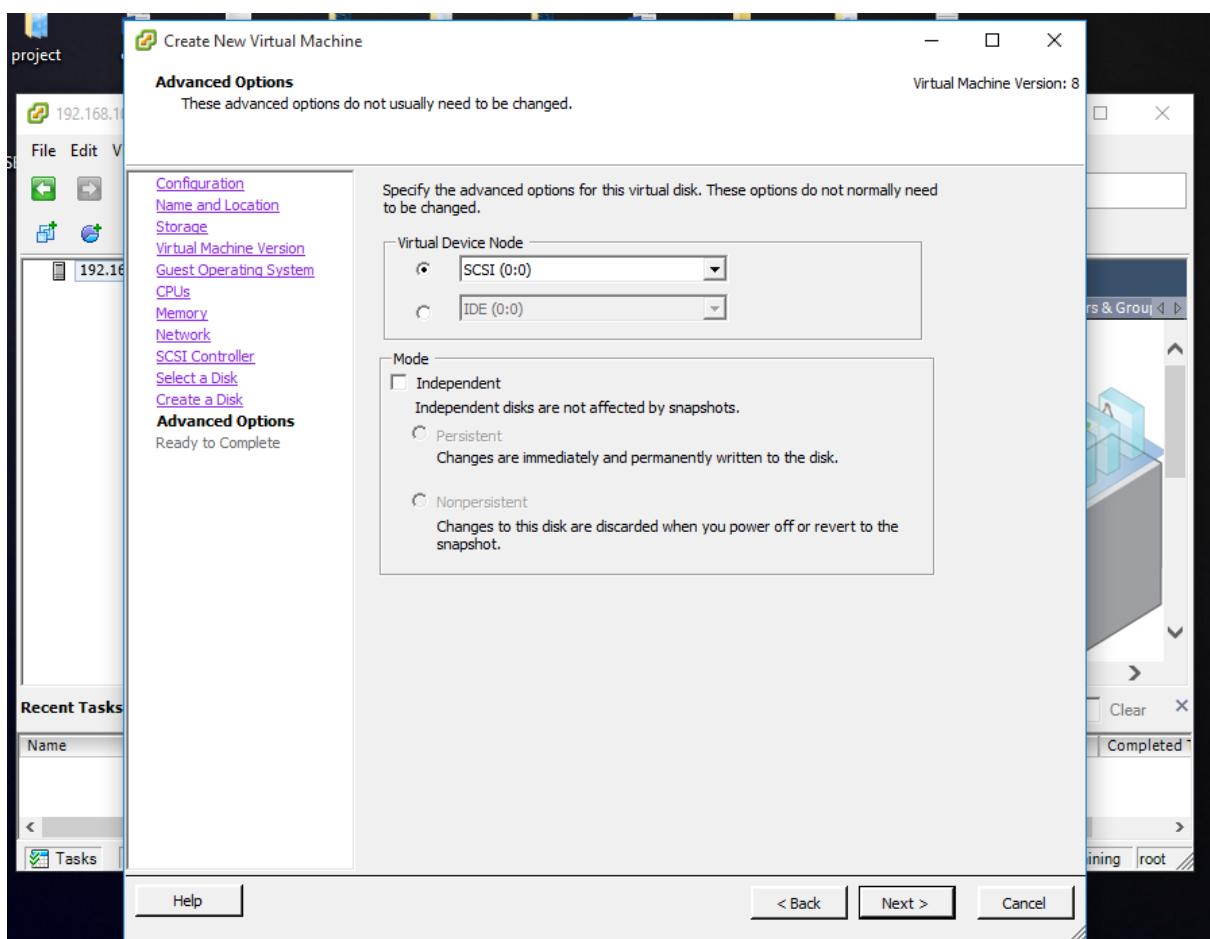
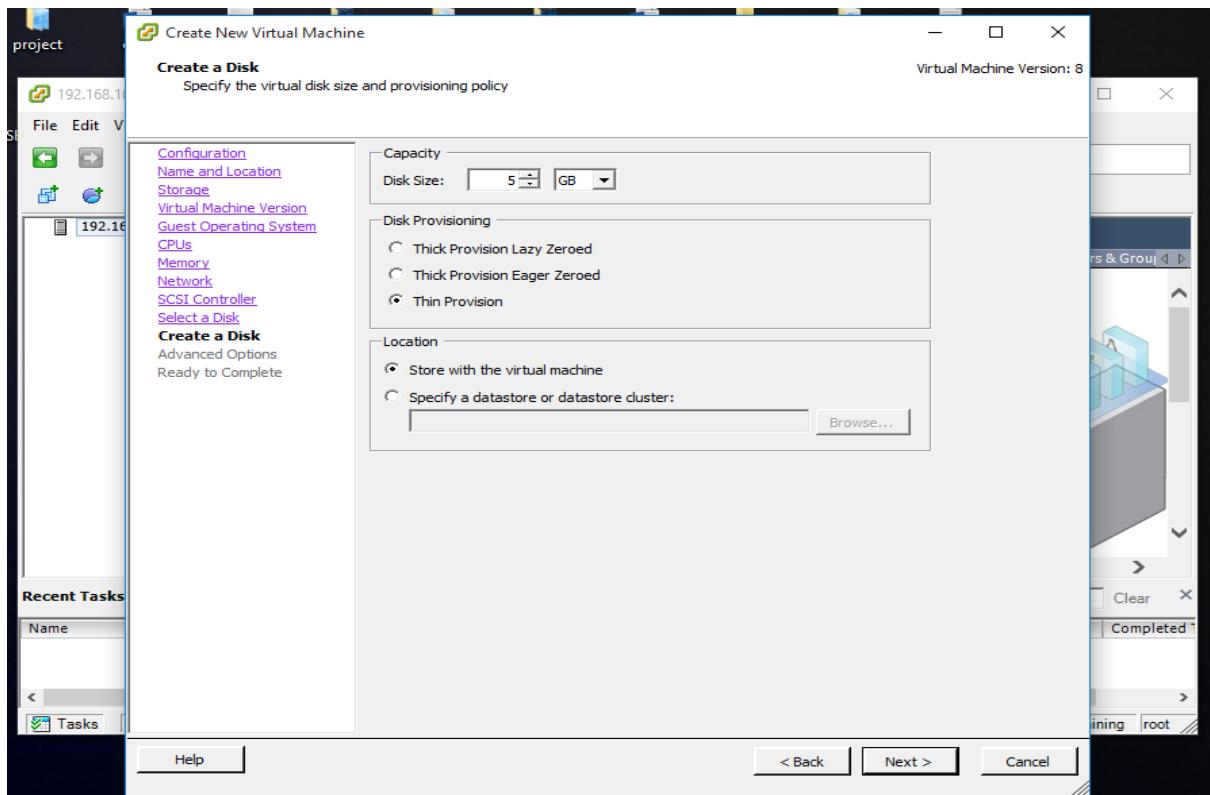


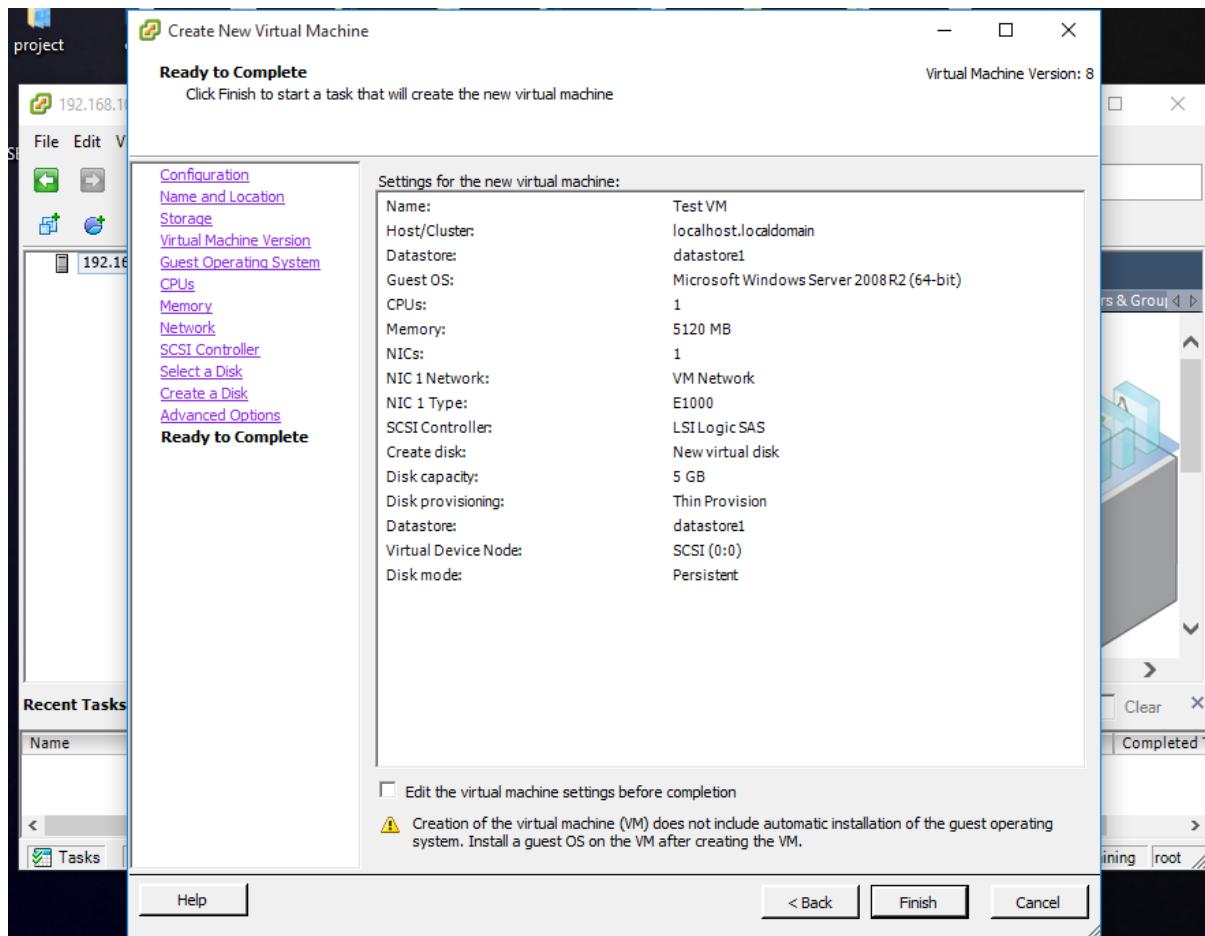












192.168.101.128 - vSphere Client

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 close tab

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

Recent Tasks

Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time
Create virtual machine	192.168.101.1...	Completed		root	7/23/2016 12:01:21 ...	7/23/2016 12:01:21 ...	7/23/2016 12:01:34 ...

Tasks | Evaluation Mode: 60 days remaining | root

192.168.101.128 - 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

General

Manufacturer: VMware, Inc.
Model: VMware Virtual Platform
CPU Cores: 2 CPUs x 2.494 GHz
Processor Type: Intel(R) Core(TM) i5-3210M CPU @ 2.50GHz
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: 1
vMotion Enabled: N/A
VMware EVC Mode: Disabled
vSphere HA State: N/A
Host Configured for FT: N/A
Active Tasks:
Host Profile: N/A
Image Profile: ESX-5.5.0-20140902001-st...
Recent Tasks

Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Create virtual machine	192.168.101.128	Completed	root	7/23/2016 12:53:43 ...	7/23/2016 12:53:43 ...	7/23/2016 12:53:55 ...	
Unregister virtualmach...	Linux_Kali_VM	Completed	root	7/23/2016 12:56:00 ...	7/23/2016 12:56:00 ...	7/23/2016 12:56:00 ...	

Resources

CPU usage: 91 MHz Capacity: 2 x 2.494 GHz
Memory usage: 1167.00 MB Capacity: 4095.49 MB

Storage Drive Type Capacity
[datastore] Non-SSD 32.60 GB 31

- < Network VM Network >
- Rename
- Unmount
- Delete
- Refresh
- Properties...
- 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

192.168.101.128 - 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]

Folders / Upload File... Upload Folder...

Size	Type	Path
	Folder	[datastore1].addsf
	Folder	[datastore1]Test VM
	Folder	[datastore1]Linux_Kali_VM

Recent Tasks

Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Create virtual machine	192.168.101.128	Completed	root	7/23/2016 12:53:43 ...	7/23/2016 12:53:43 ...	7/23/2016 12:53:55 ...	
Unregister virtualmach...	Linux_Kali_VM	Completed	root	7/23/2016 12:56:00 ...	7/23/2016 12:56:00 ...	7/23/2016 12:56:00 ...	

Evaluation Mode: 60 days remaining root

10:34 AM 7/30/2016

192.168.101.128 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home > Inventory > Inventory

Uploading... Cancel

E:\Operating Systems (OS)\kali-linux-2.0-amd64.iso

From E:\Operating Systems (OS)\kali-linux-2.0-amd64.iso to [datastore1]

11 minute(s) and 46 second(s) remaining

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

Test VM

Location Performance Configuration Local Users & Groups Events Permissions

[datastore1] /

Name	Size	Type	Path	Modified
.addsf		Folder	[datastore1].addsf	
Test VM		Folder	[datastore1]Test VM	
Linux_Kali_VM		Folder	[datastore1]Linux_Kali_VM	

Prot Cor Logi Hyp Num Staf Virtl VMs VMv vSp Host Acti

Host Profile: N/A Powered On Secondary VMs: 0

Recent Tasks

Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time
Create virtual machine	192.168.101.128	Completed		root	7/23/2016 12:53:43 ...	7/23/2016 12:53:55 ...	
Unregister virtual mach...	Linux_Kali_VM	Completed		root	7/23/2016 12:56:00 ...	7/23/2016 12:56:00 ...	
Manipulate file paths		Completed		root	7/23/2016 1:02:40 AM	7/23/2016 1:02:40 AM	7/23/2016 1:02:40 AM

Tasks

Search the web and Windows

192.168.101.128 - 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

Datastore Browser - [datastore1]

Folders Search

[datastore1] /

Name	Size	Type	Path	Modified
.addsf		Folder	[datastore1].addsf	
Test VM		Folder	[datastore1]Test VM	
Linux_Kali_VM		Folder	[datastore1]Linux_Kali_VM	
kali-linux-2.0-amd64iso	3,242,688.00 KB	ISO Image	[datastore1]	7/23/2016 1:02:40 AM

Prot Cor Logi Hyp Num Staf Virtl VMs VMv vSp Host Acti

Host Profile: N/A Powered On Secondary VMs: 0

Recent Tasks

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

Search the web and Windows

Evaluation Mode: 60 days remaining root

10:34 AM 7/30/2016

192.168.101.128 - 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

Datastore Browser - [datastore1]

Folders Search

[datastore1] /

Name	Size	Type	Path	Modified
.addsf		Folder	[datastore1].addsf	
Test VM		Folder	[datastore1]Test VM	
Linux_Kali_VM		Folder	[datastore1]Linux_Kali_VM	
kali-linux-2.0-amd64iso	3,242,688.00 KB	ISO Image	[datastore1]	7/23/2016 1:02:40 AM

Prot Cor Logi Hyp Num Staf Virtl VMs VMv vSp Host Acti

Host Profile: N/A Powered On Secondary VMs: 0

Recent Tasks

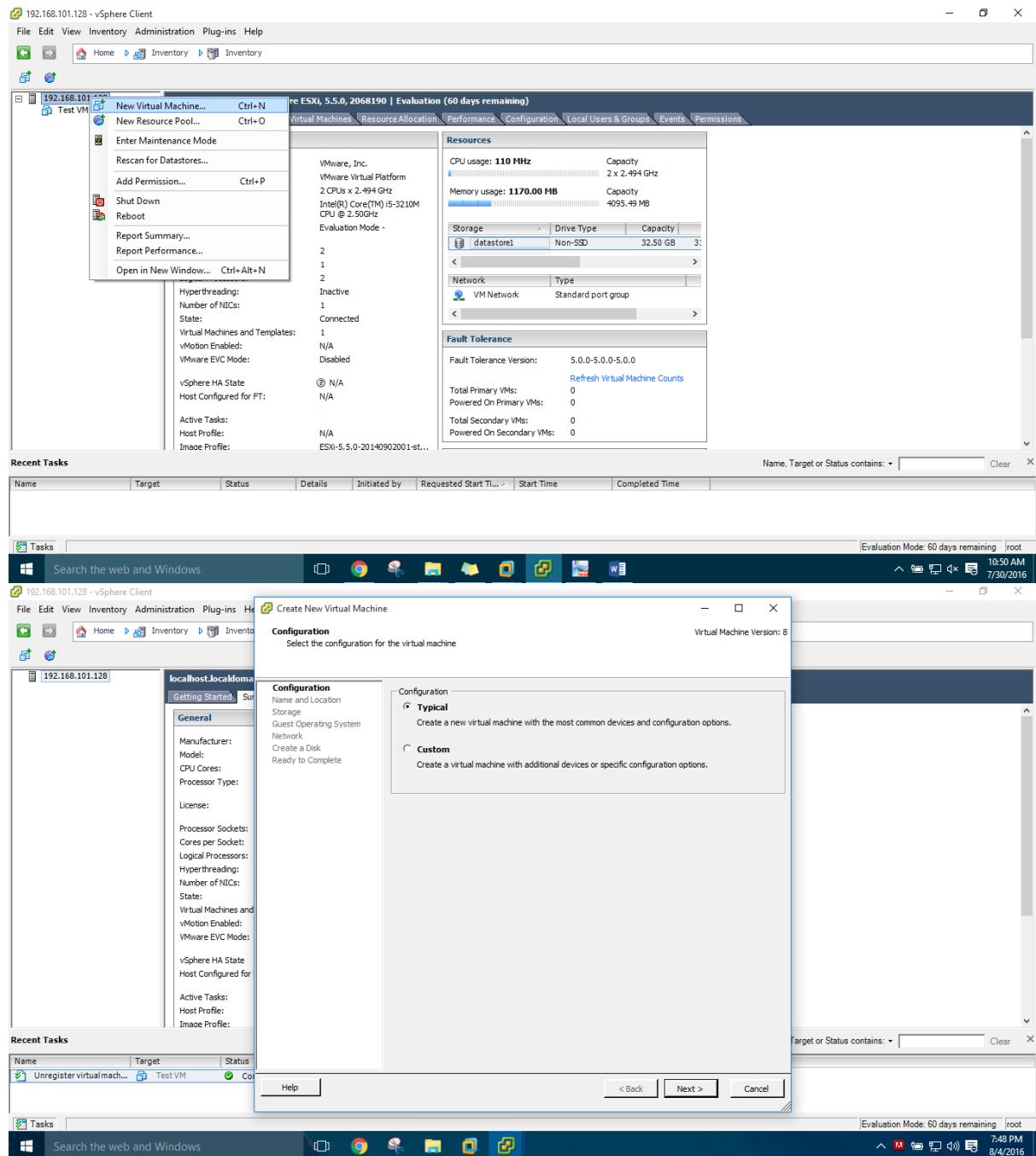
Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time
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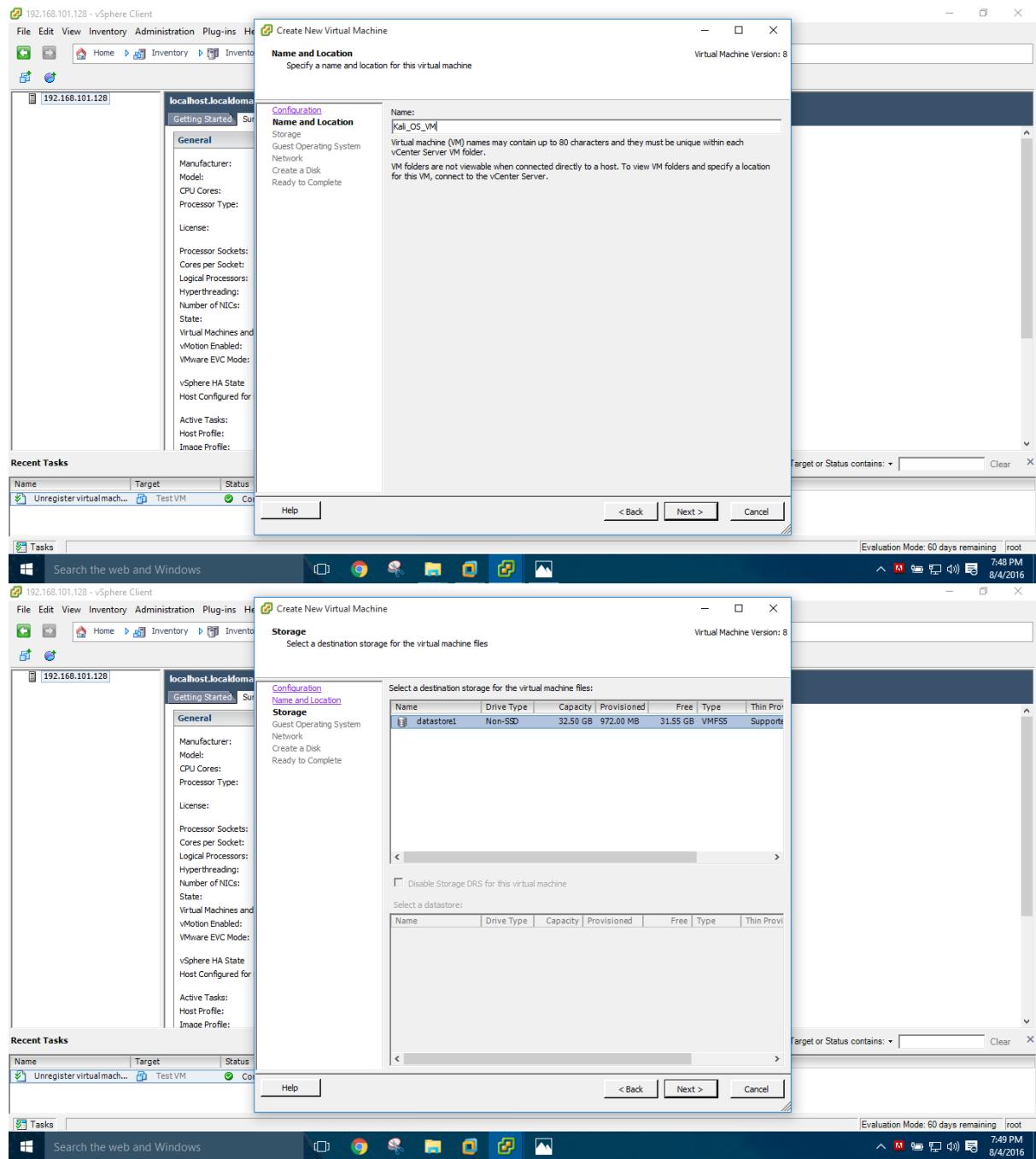
Tasks

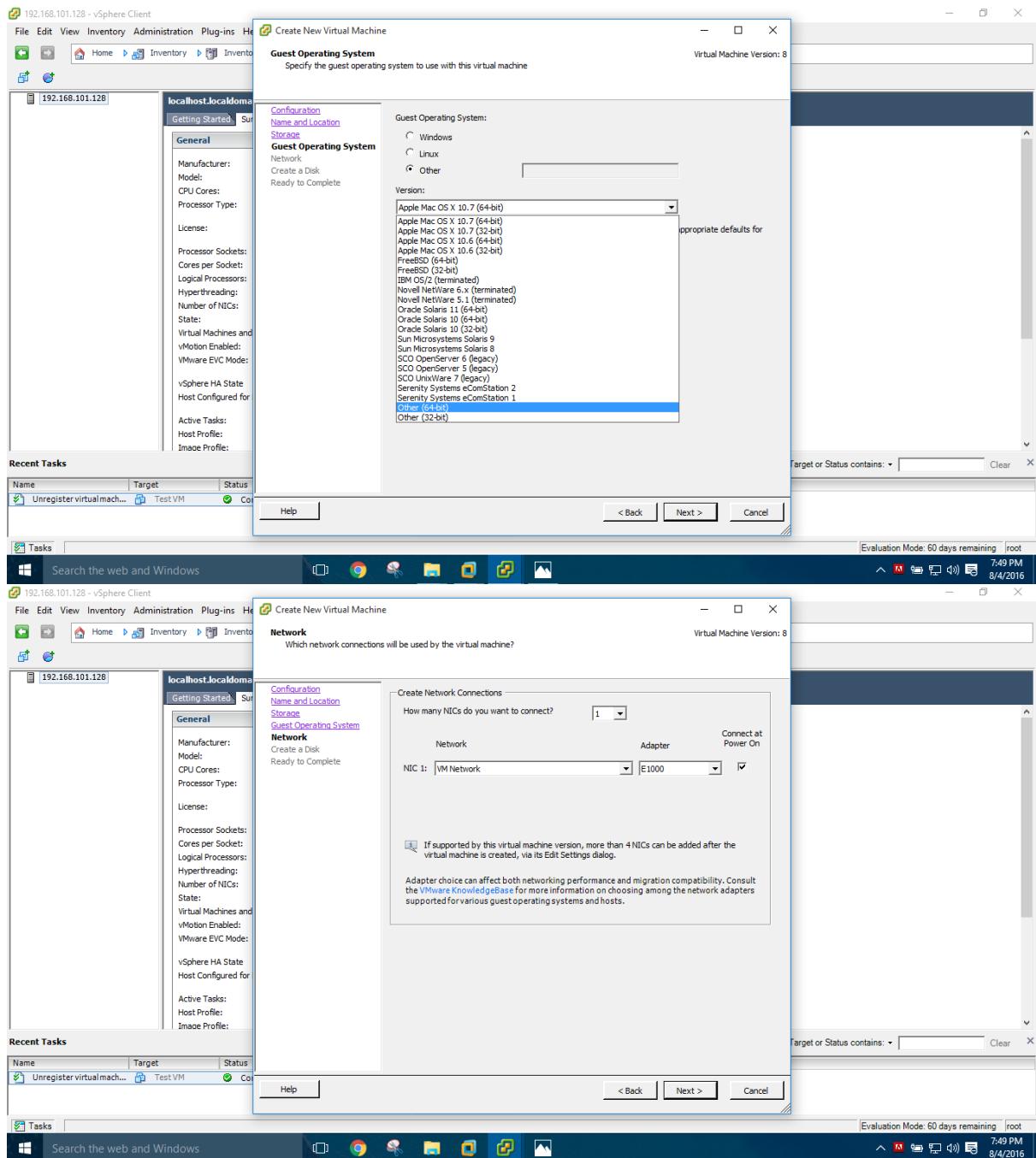
Search the web and Windows

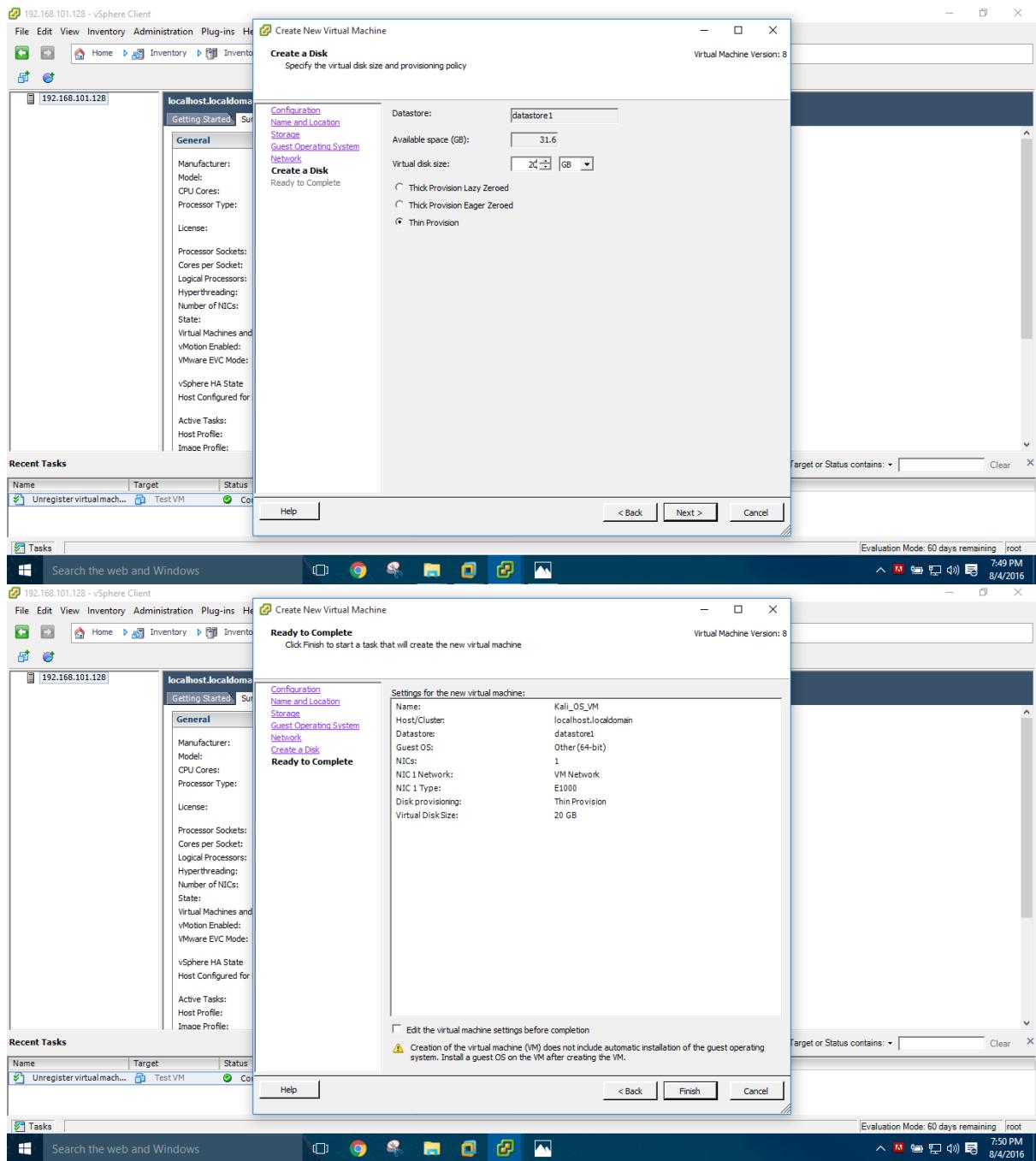
Evaluation Mode: 60 days remaining root

10:50 AM 7/30/2016









192.168.101.128 - 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 2.494 GHz
Processor Type:	Intel(R) Core(TM) i5-3210M CPU @ 2.50GHz
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:	1
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:	ESX-5.5.0-20140902001-st... 7/23/2016 1:25:05 AM

Resources

Storage	Drive Type	Capacity
datastore1	Non-SSD	32.50 GB 21

Network	Type
VM Network	Standard port group

Fault Tolerance

Fault Tolerance Version:	5.0.0-5.0.0-5.0.0
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 Time	Start Time	Completed Time
Create virtual machine	192.168.101.128	Completed		root	7/23/2016 1:25:05 AM	7/23/2016 1:25:05 AM	7/23/2016 1:25:16 AM
Unregister virtualmach...	Test VM	Completed		root	7/23/2016 1:21:27 AM	7/23/2016 1:21:27 AM	7/23/2016 1:21:27 AM

Tasks

Search the web and Windows

File Edit View Inventory Administration Plug-ins Help

192.168.101.128 - vSphere Client

Kali_OS_Vm - Virtual Machine Properties

Virtual Machine Version: 8

Hardware Options Resources

Show All Devices Add... Remove

Memory (edited) 4096 MB

CPUs Video card VMCI device SCSI controller 0 CD/DVD drive 1 Hard disk 1 Floppy drive 1 Network adapter 1

Memory Configuration

Memory Size: 4 GB

1011 GB Maximum recommended for this guest OS: 1011 GB.

512 GB Maximum recommended for best performance: 4 GB.

256 GB Default recommended for this guest OS: 512 MB.

128 GB Minimum recommended for this guest OS: 64 MB.

64 GB

32 GB

16 GB

8 GB

4 GB

2 GB

1 GB

512 MB

256 MB

128 MB

64 MB

32 MB

16 MB

8 MB

4 MB

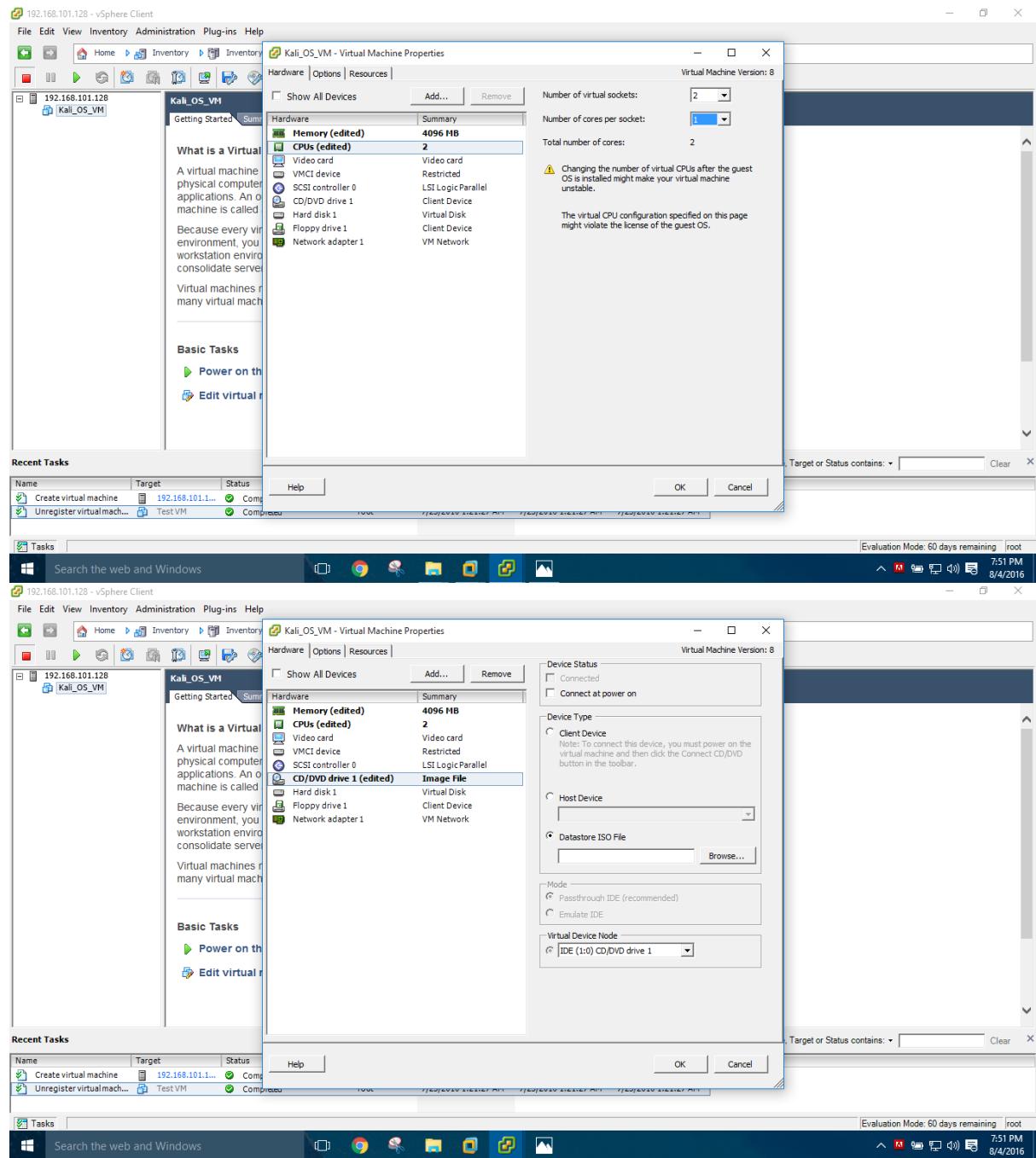
Recent Tasks

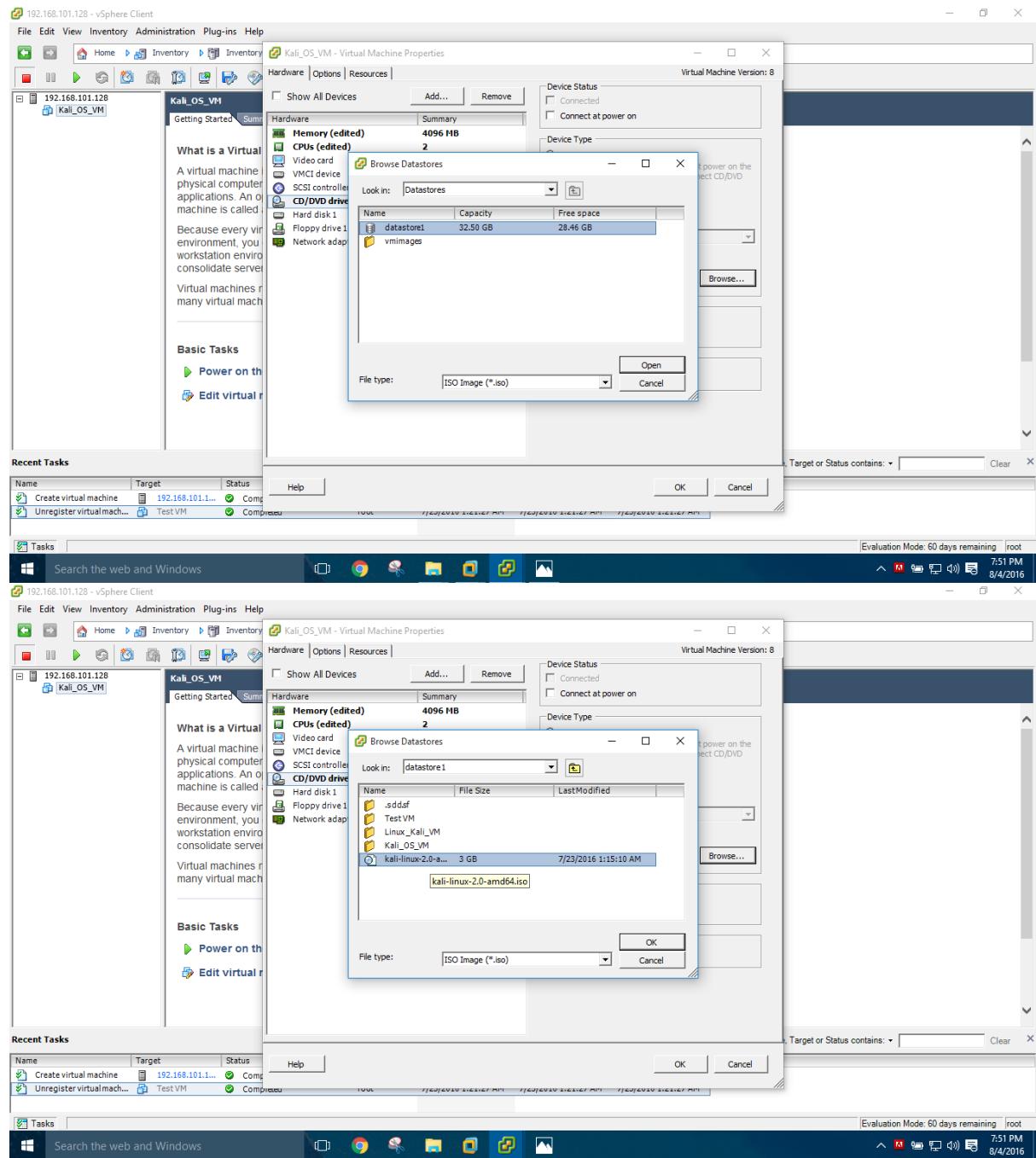
Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Create virtual machine	192.168.101.128	Completed		root	7/23/2016 1:25:05 AM	7/23/2016 1:25:05 AM	7/23/2016 1:25:16 AM
Unregister virtualmach...	Test VM	Completed		root	7/23/2016 1:21:27 AM	7/23/2016 1:21:27 AM	7/23/2016 1:21:27 AM

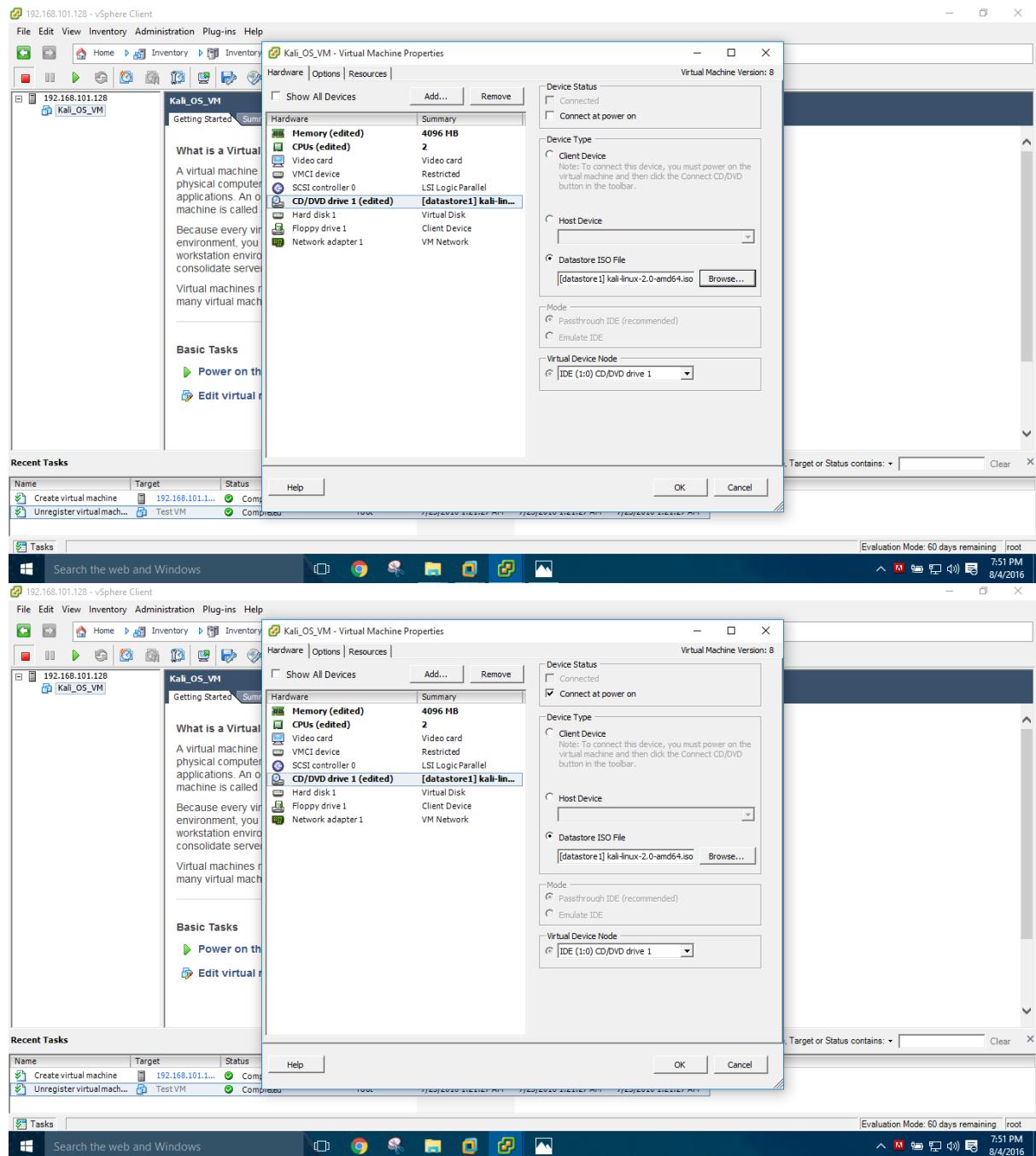
Tasks

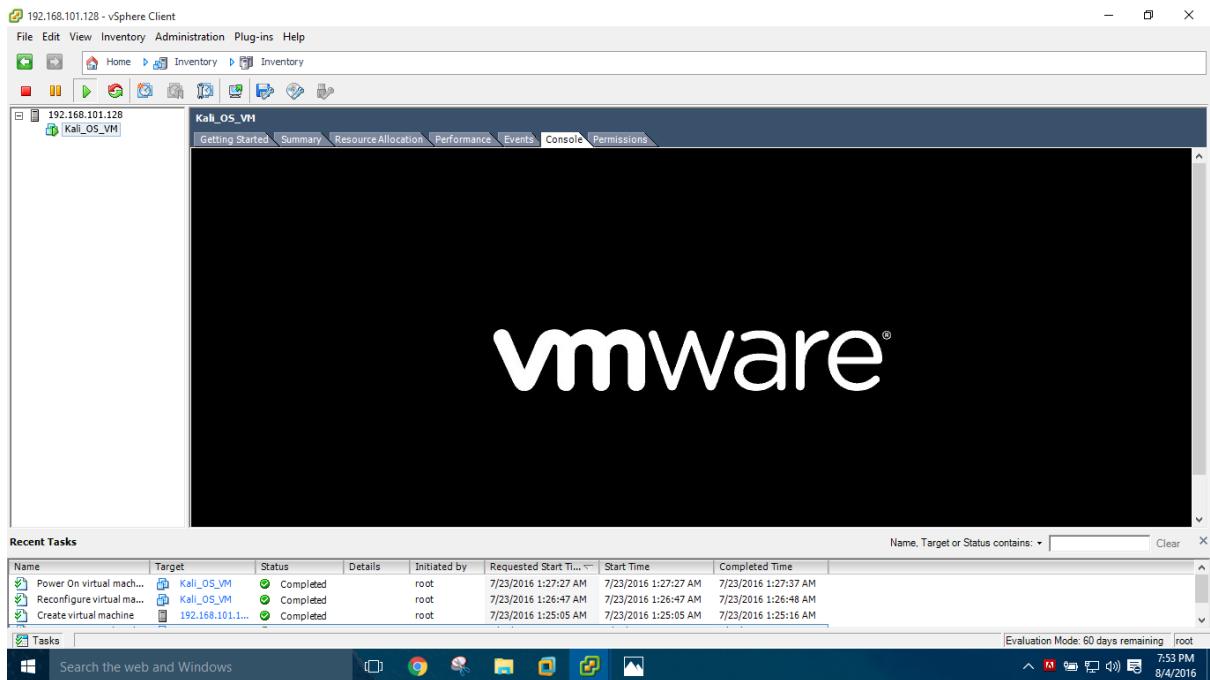
Search the web and Windows

Evaluation Mode: 60 days remaining root 7:50 PM 8/4/2016

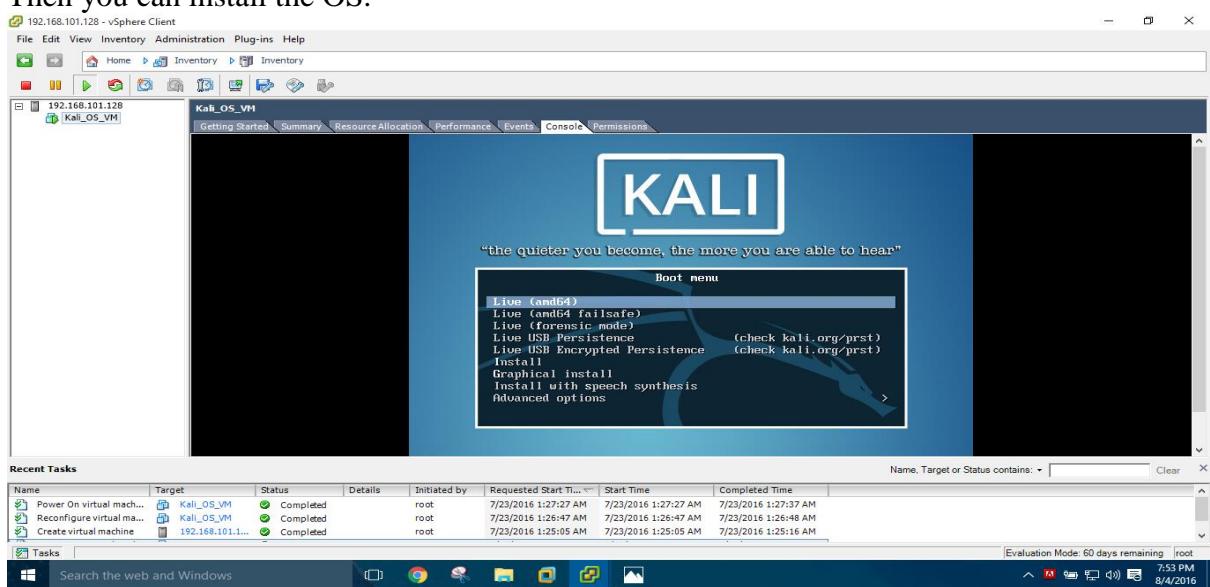








Then you can install the OS.



192.168.101.128 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home Inventory

Kali_OS_VM

Getting Started Summary Resource Allocation Performance Events Console Permissions

```
t pref]
[ 1.869477] pci 0000:00:18.5: PCI bridge to [bus 28]
[ 1.870695] pci 0000:00:18.5: bridge window [MEM 0xfbd00000-0xfbffff]
[ 1.871994] pci 0000:00:18.5: bridge window [MEM 0xeaa30000-0xea3fffff 64bi
t pref]
[ 1.874156] pci 0000:00:18.6: PCI bridge to [bus 21]
[ 1.875284] pci 0000:00:18.6: bridge window [MEM 0xfbd00000-0xfbffff]
[ 1.876545] pci 0000:00:18.6: bridge window [MEM 0xe9100000-0xe91fffff 64bi
t pref]
[ 1.880241] pci 0000:00:18.7: PCI bridge to [bus 22]
[ 1.882982] pci 0000:00:18.7: bridge window [MEM 0xfb500000-0xfb5fffff]
[ 1.886157] pci 0000:00:18.7: bridge window [MEM 0xe9b00000-0xe9bfffff 64bi
t pref]
[ 1.889033] NET: Registered protocol family 2
[ 1.891392] TCP established hash table entries: 32768 (order: 6, 262144 bytes)
[ 1.893172] TCP bind hash table entries: 32768 (order: 7, 524288 bytes)
[ 1.894488] TCP: Hash tables configured (established 32768 bind 32768)
[ 1.896716] TCP: reno registered
[ 1.897636] UDP hash table entries: 2048 (order: 4, 65536 bytes)
[ 1.898833] UDP-Lite hash table entries: 2048 (order: 4, 65536 bytes)
[ 1.907355] NET: Registered protocol family 1
[ 1.909544] pci 0000:00:00.0: Limiting direct PCI/PCI transfers
[ 1.912283] Unpacking initramfs...
```

