



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

Name: S.M.N.K.B.Senanayake

SLIIT ID:IT13145026

Practical Session: <WD >

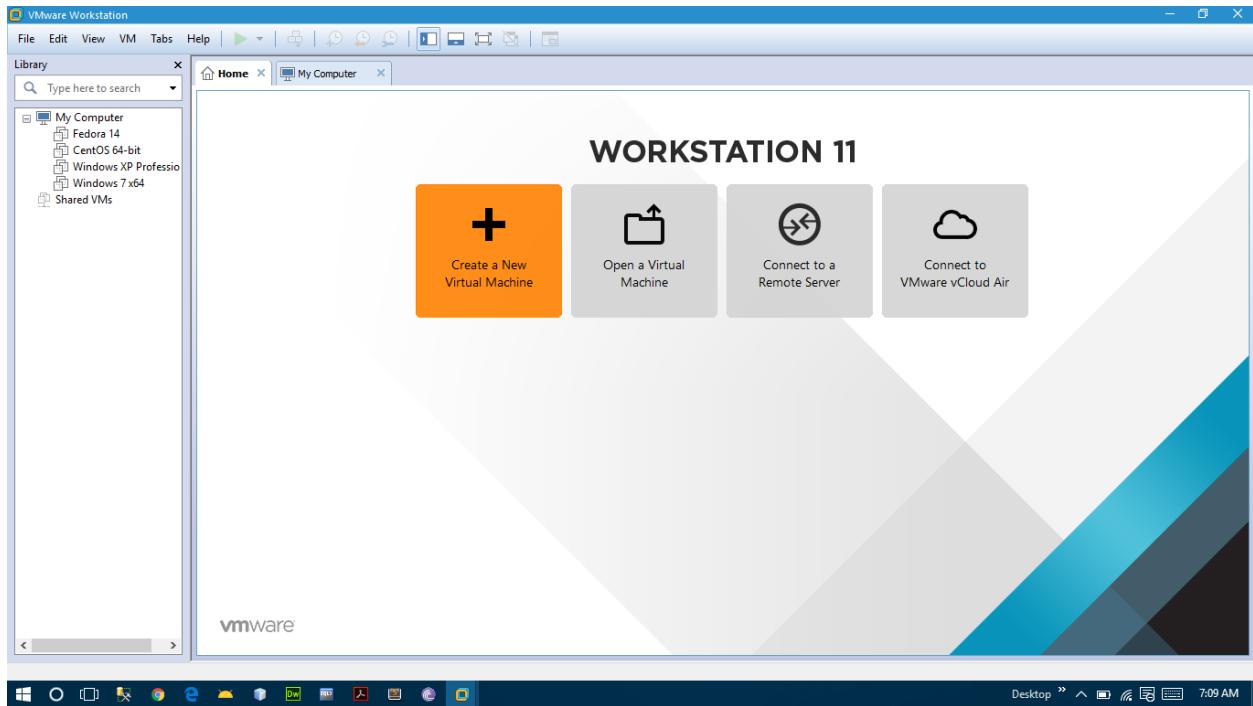
Date of Submission: 2016 - 08 - 16

Date of Evaluation : _____

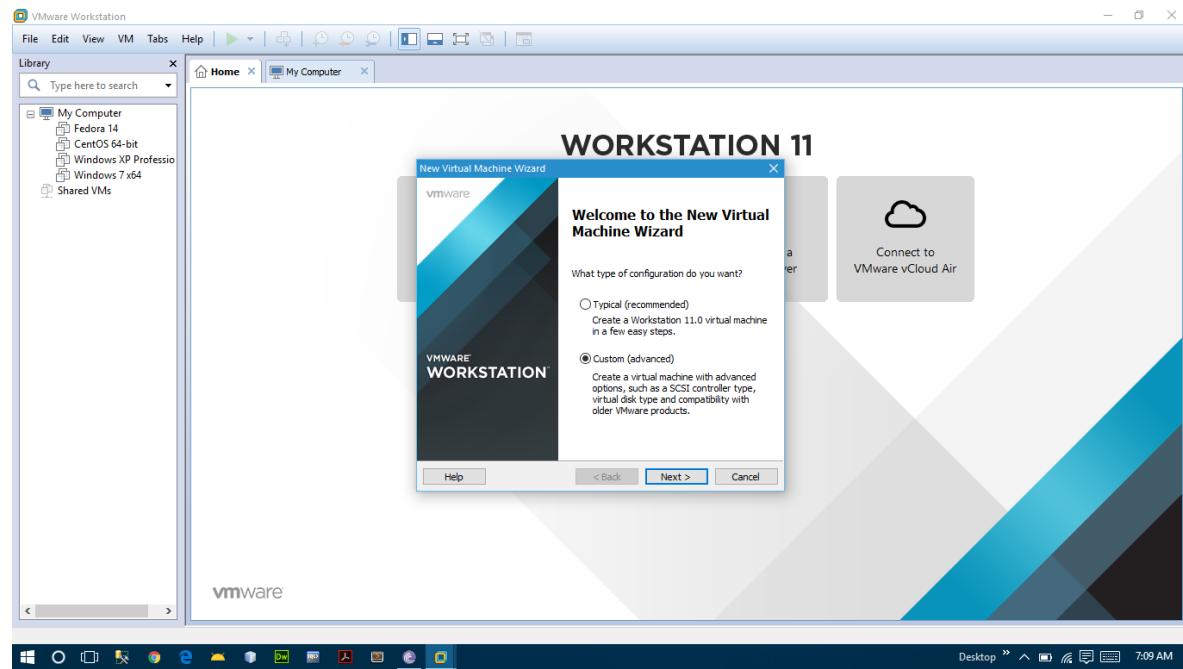
Evaluators Signature : _____

Baremetal Virtual machine Installation

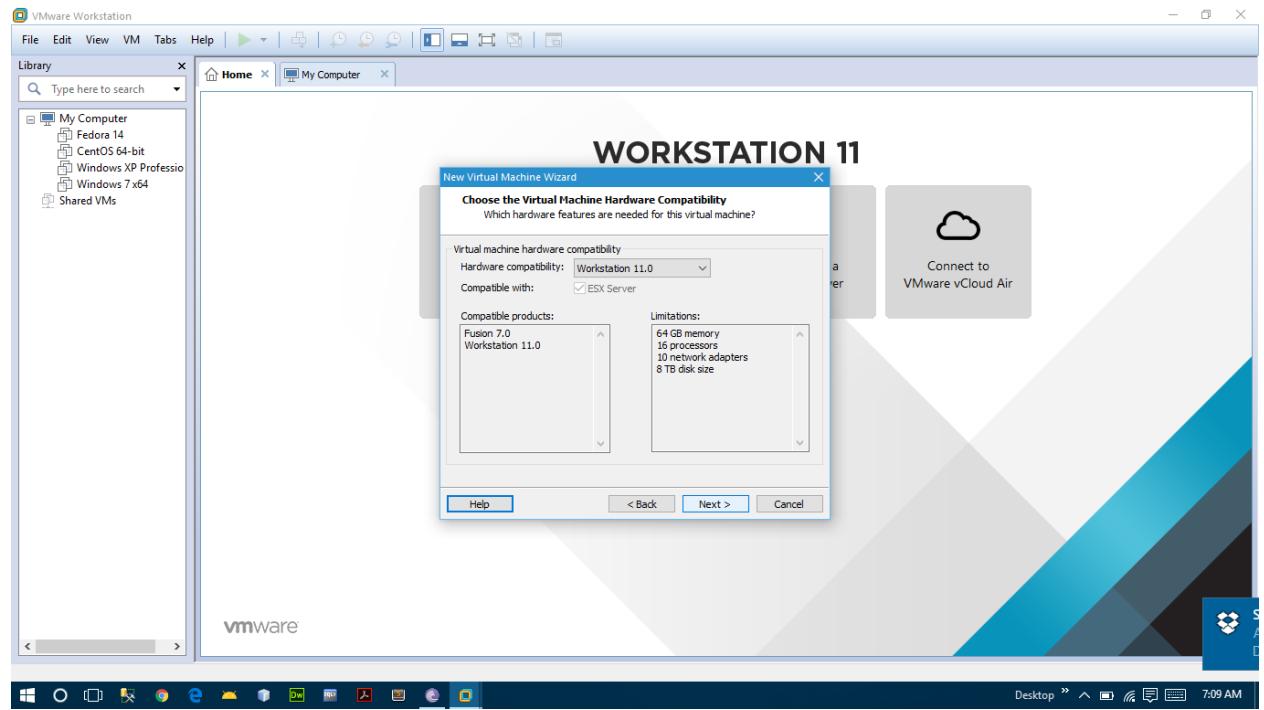
Step 1: create a new virtual machine



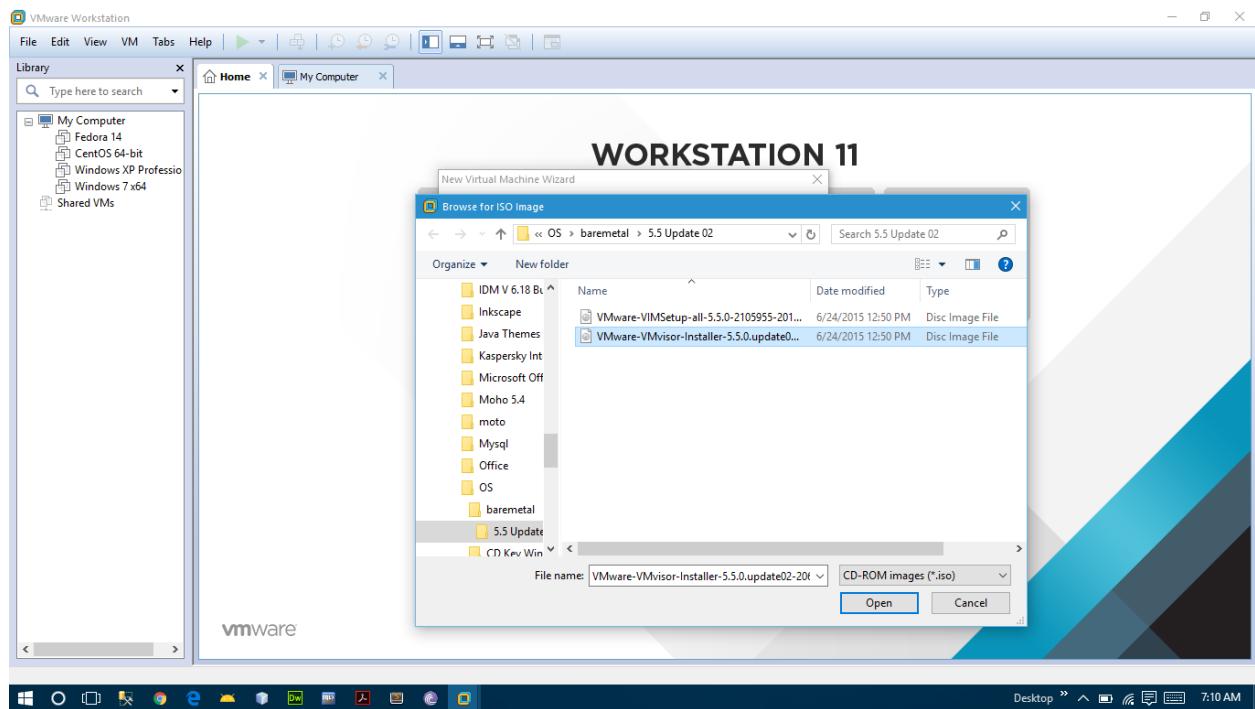
Step 2: Select the custom button and click next



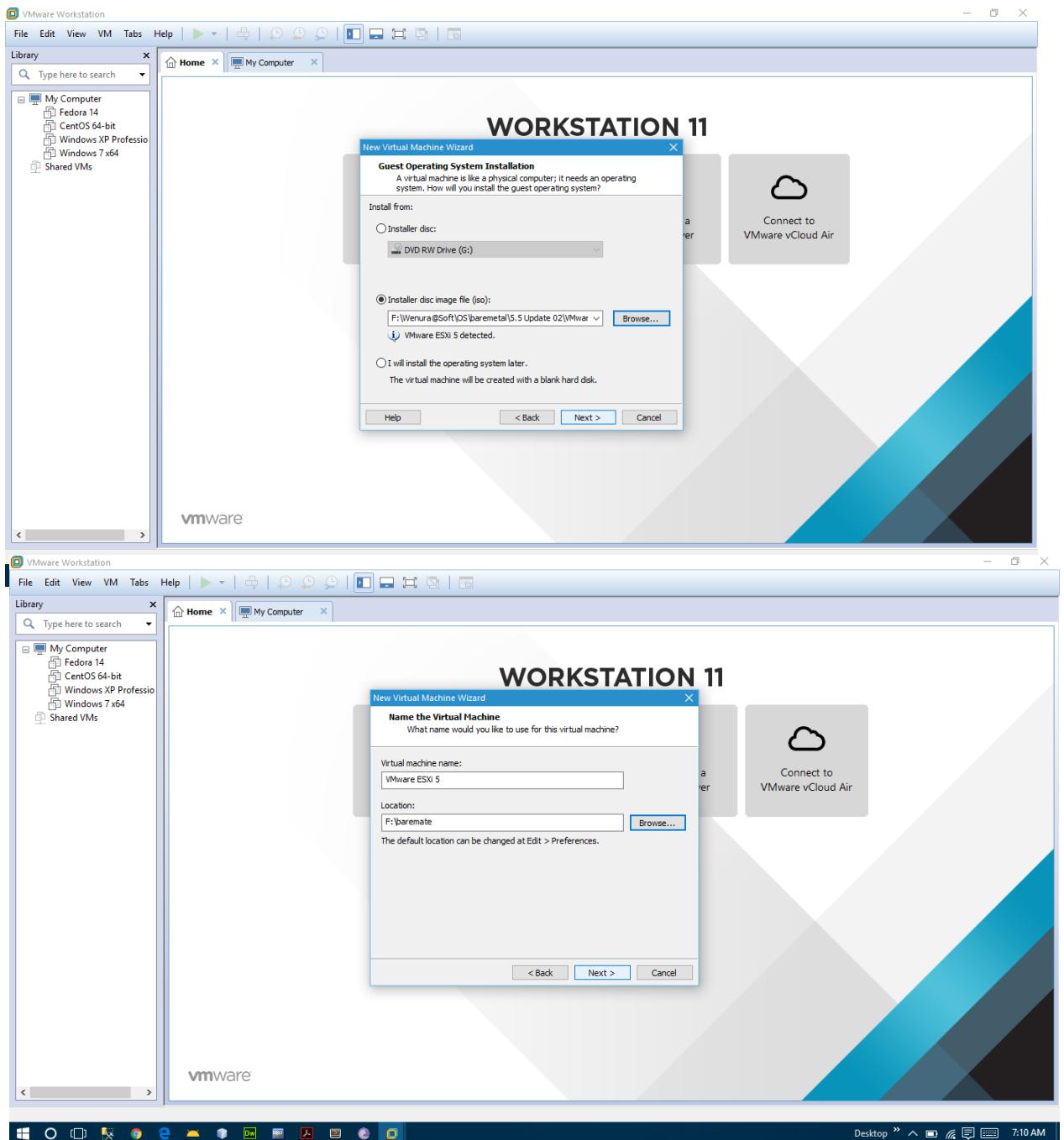
Step 3: Select the workstation

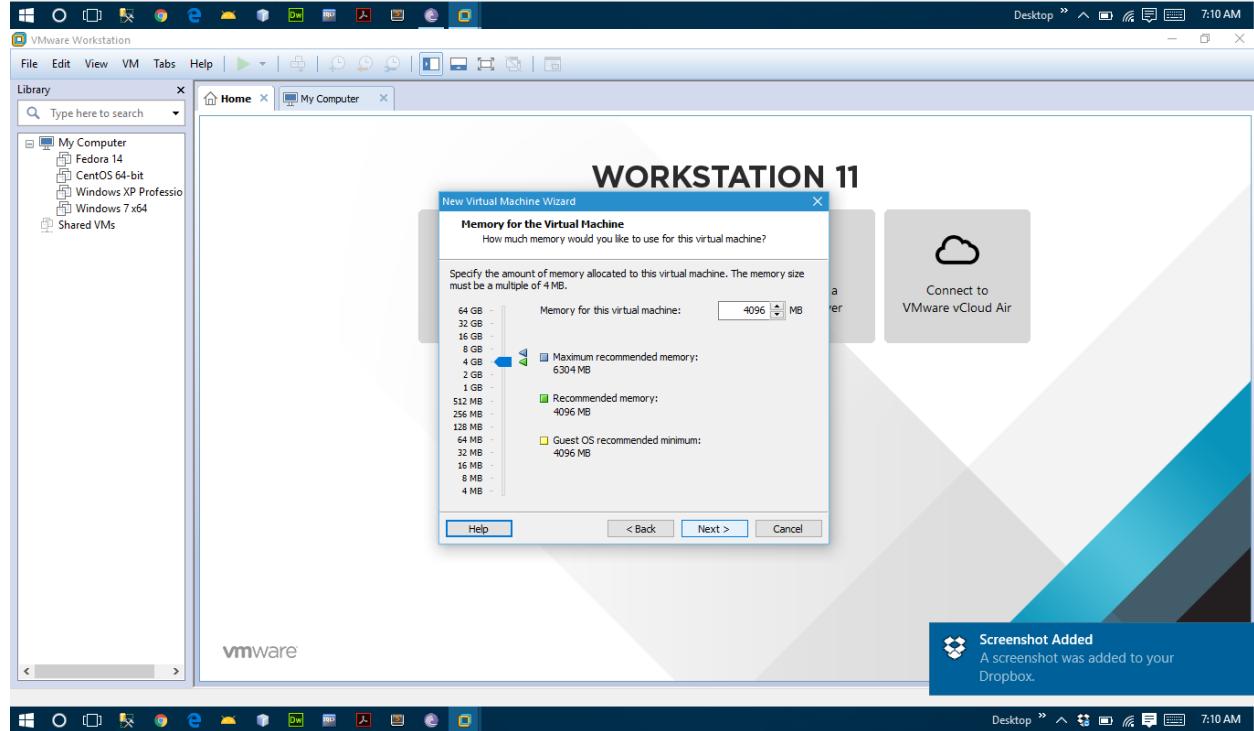
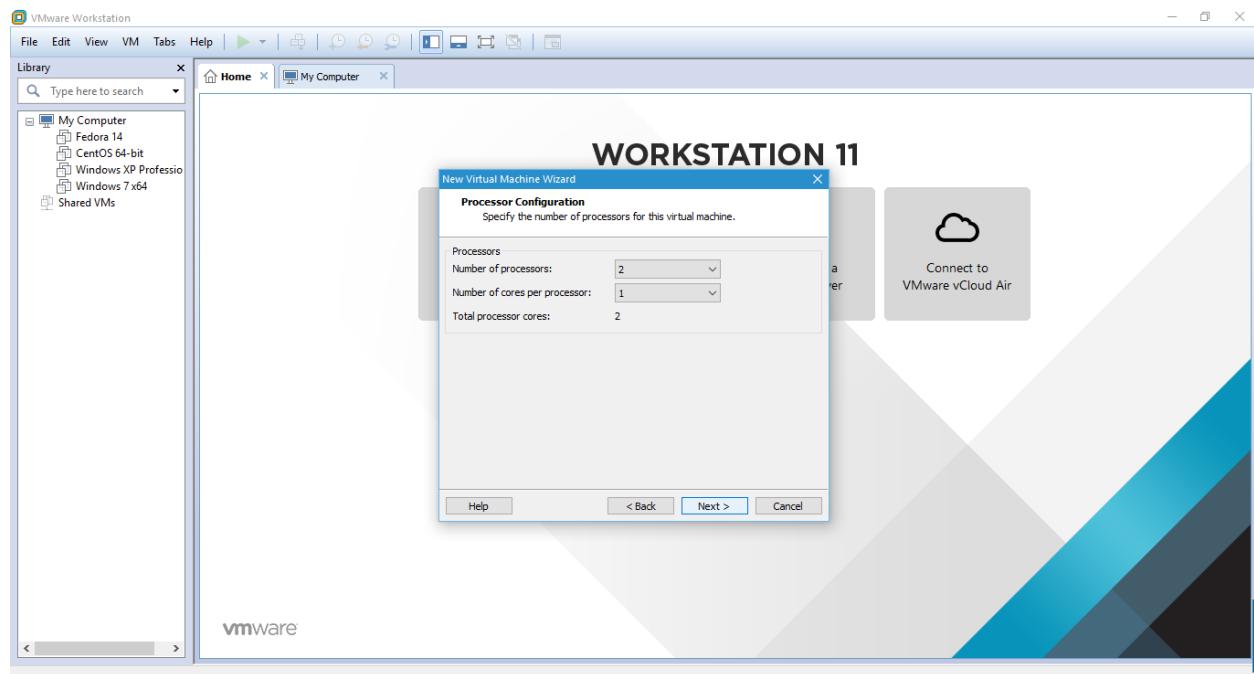


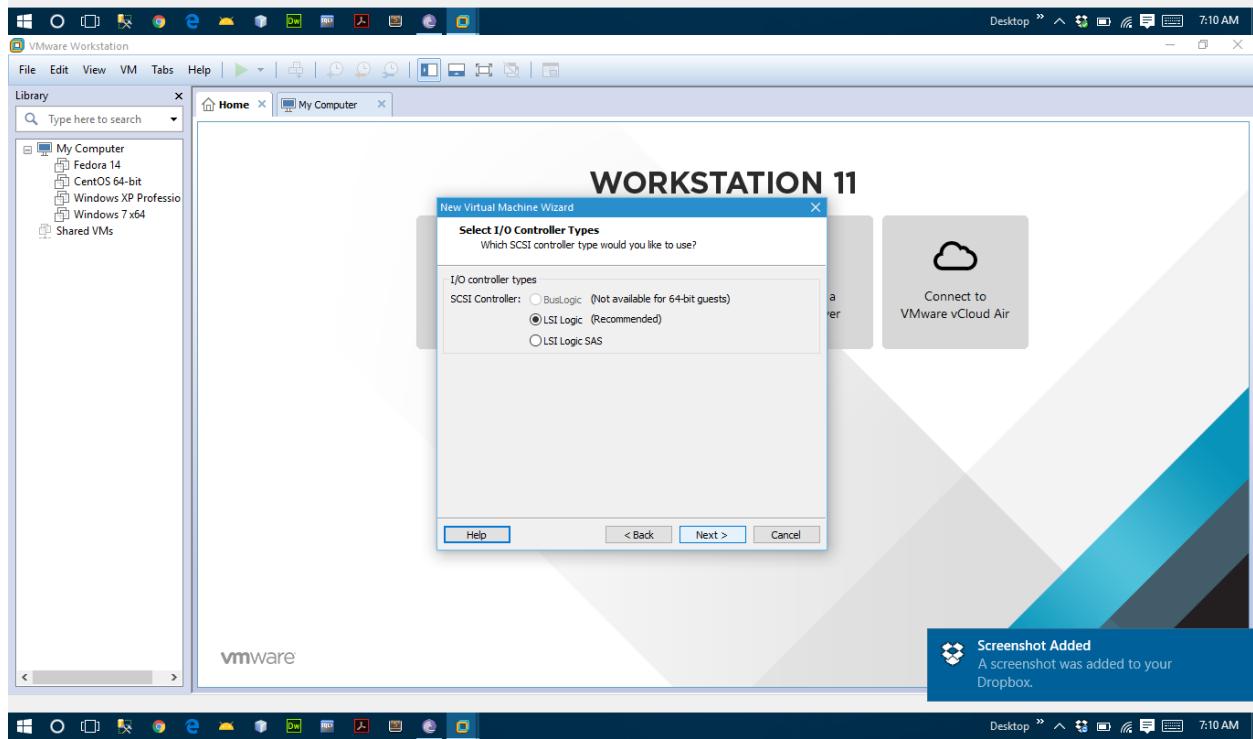
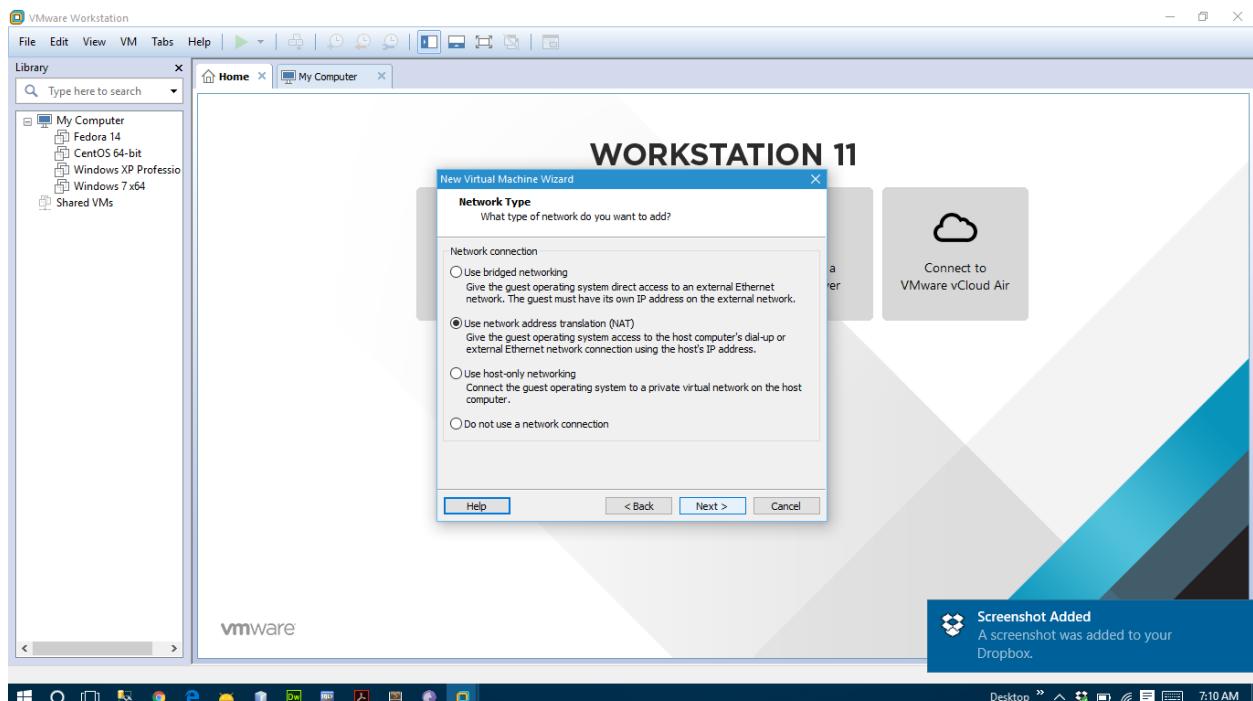
Step 4: Select the VM installer

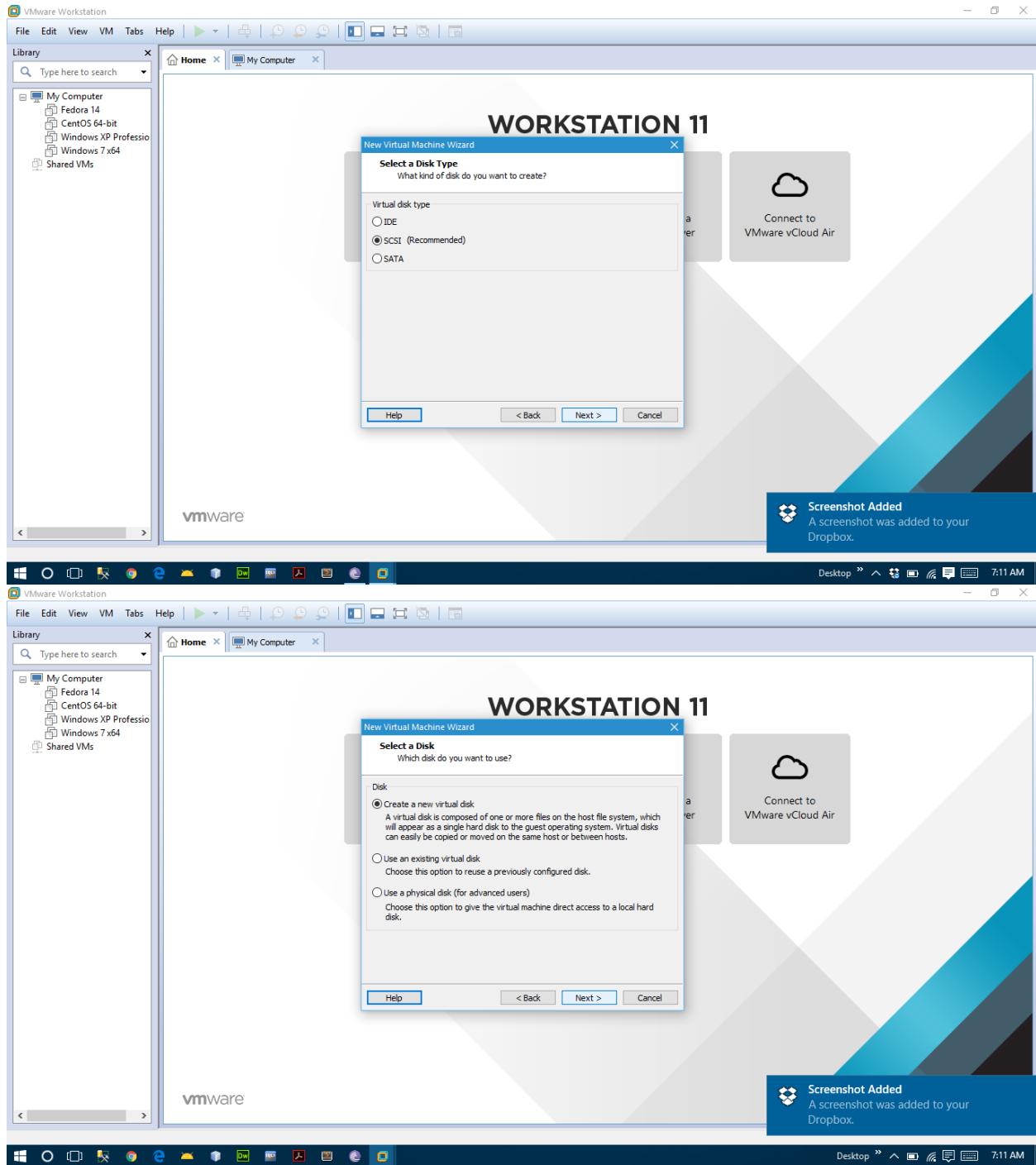


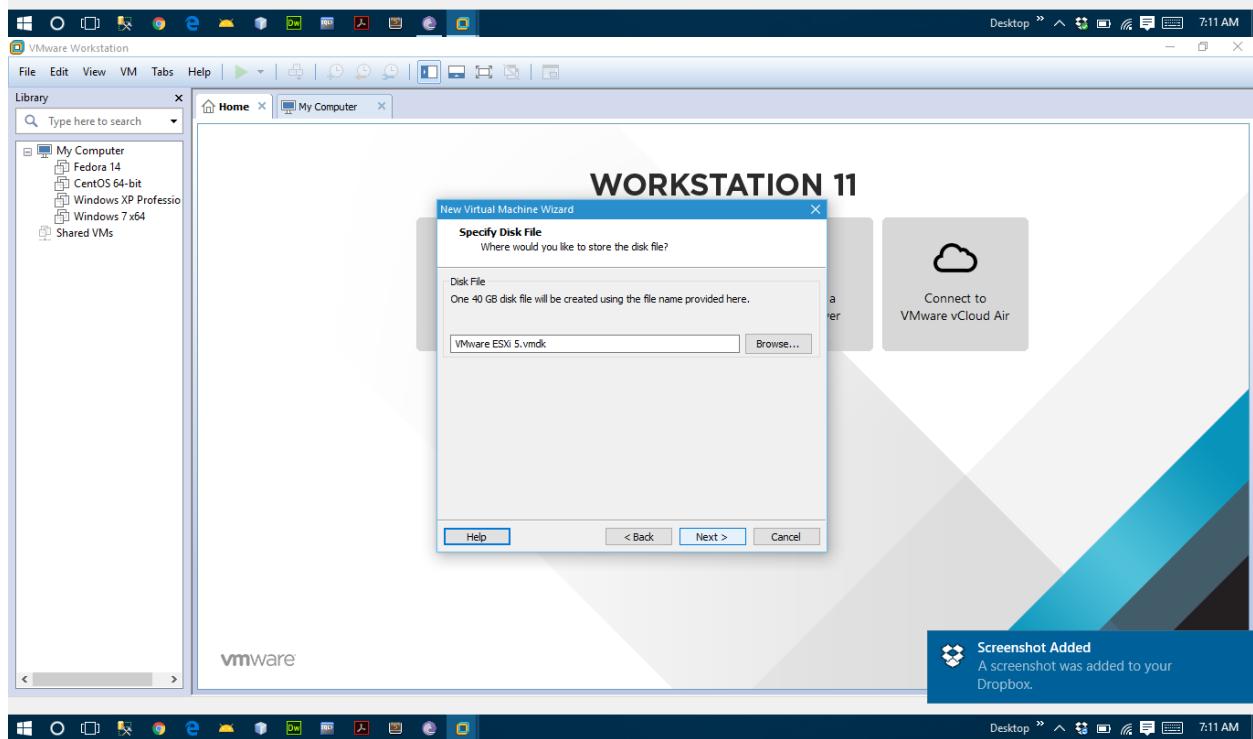
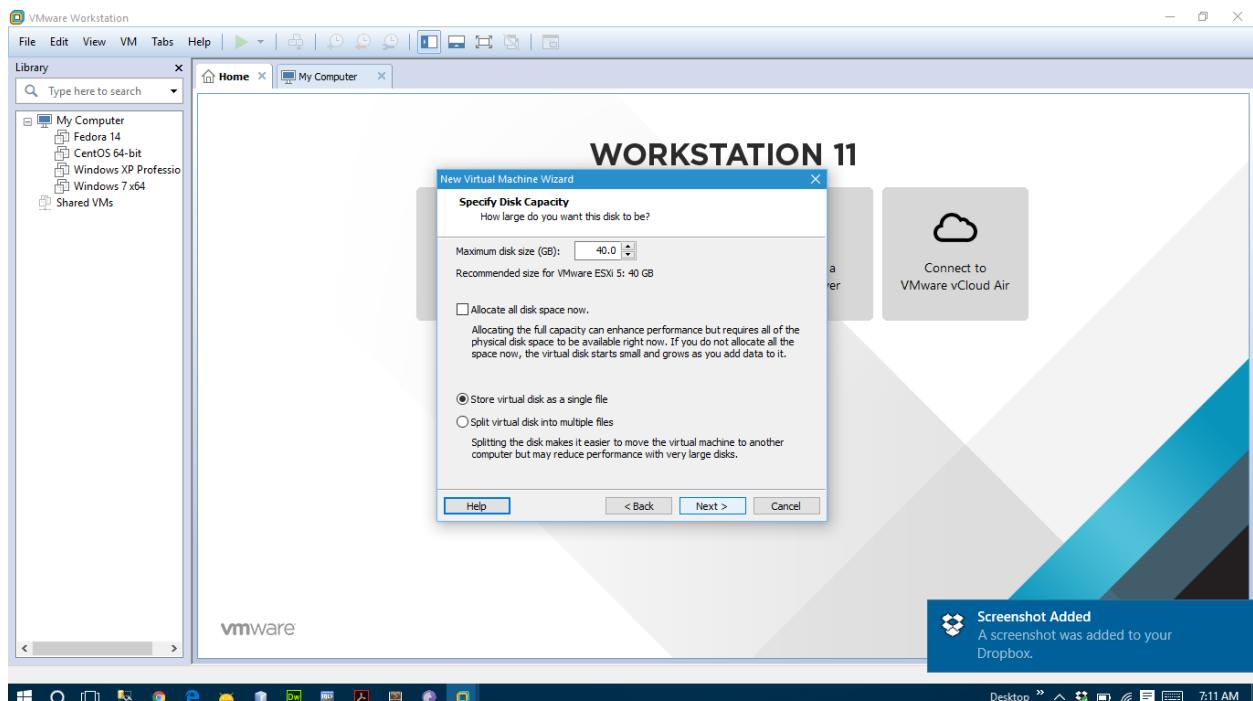
Step 5:

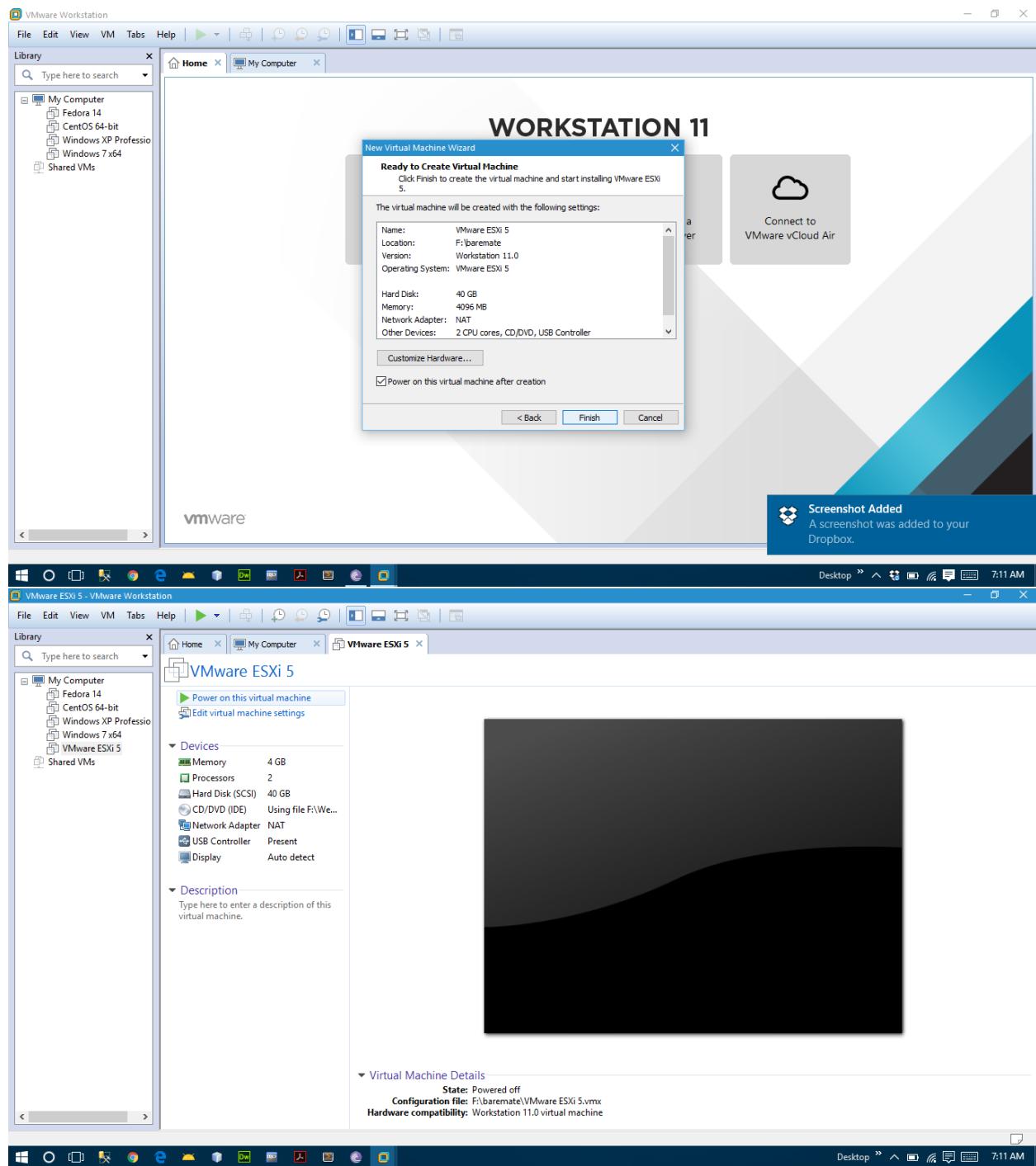


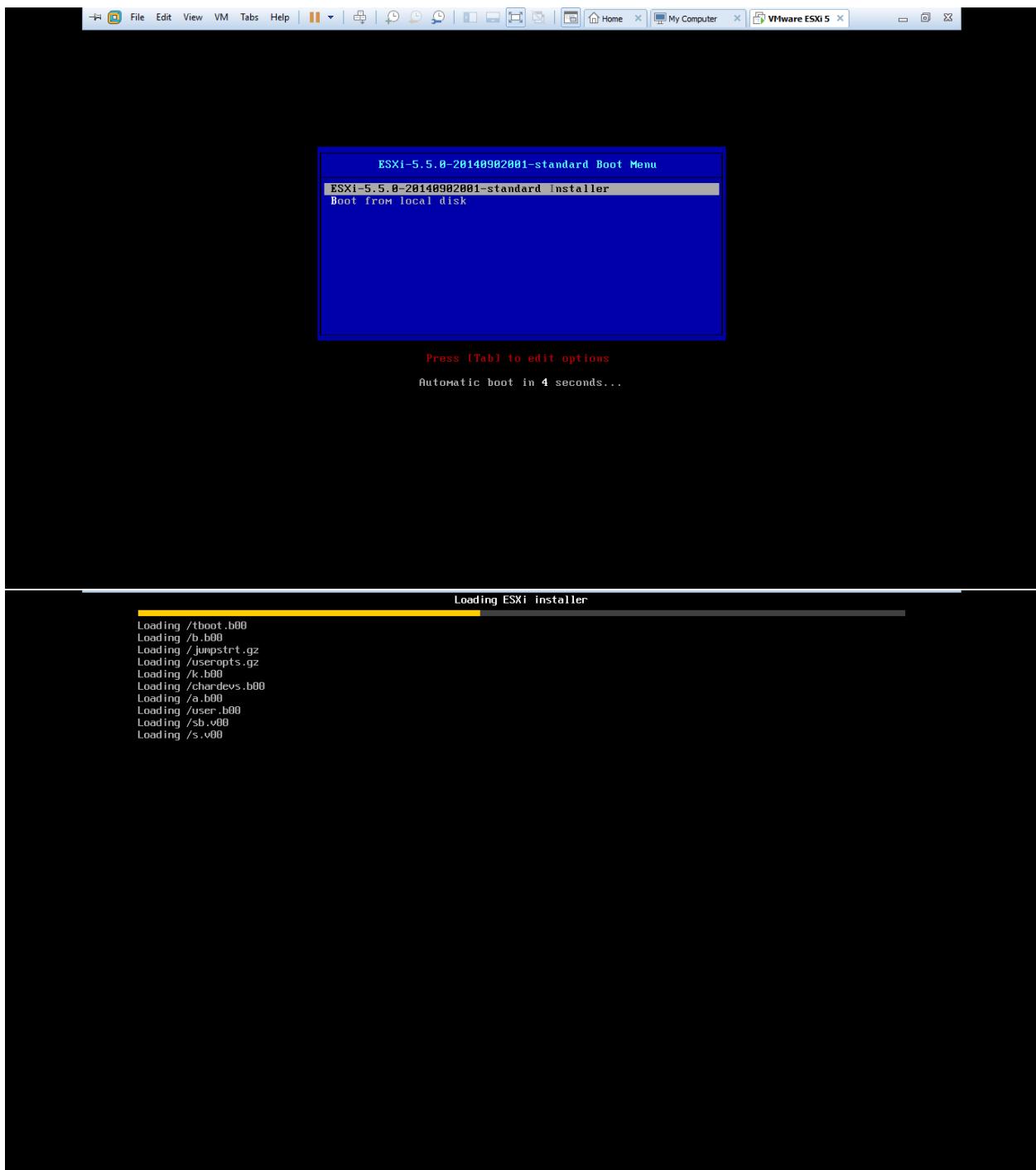




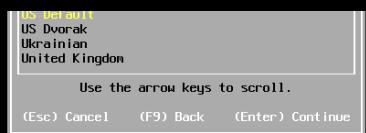
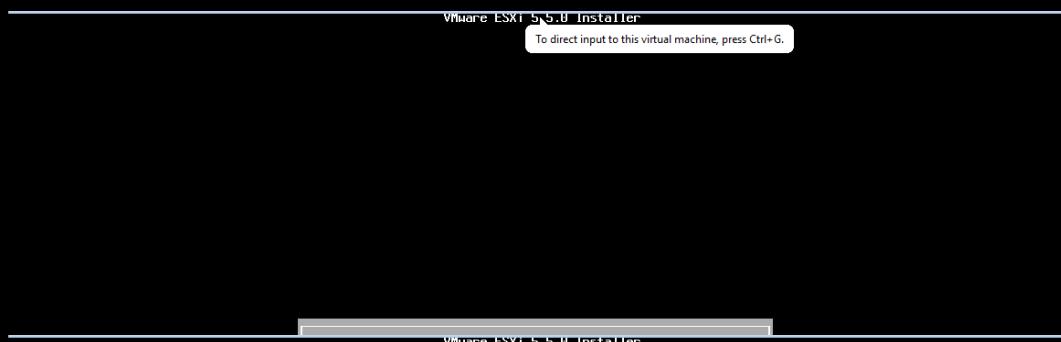
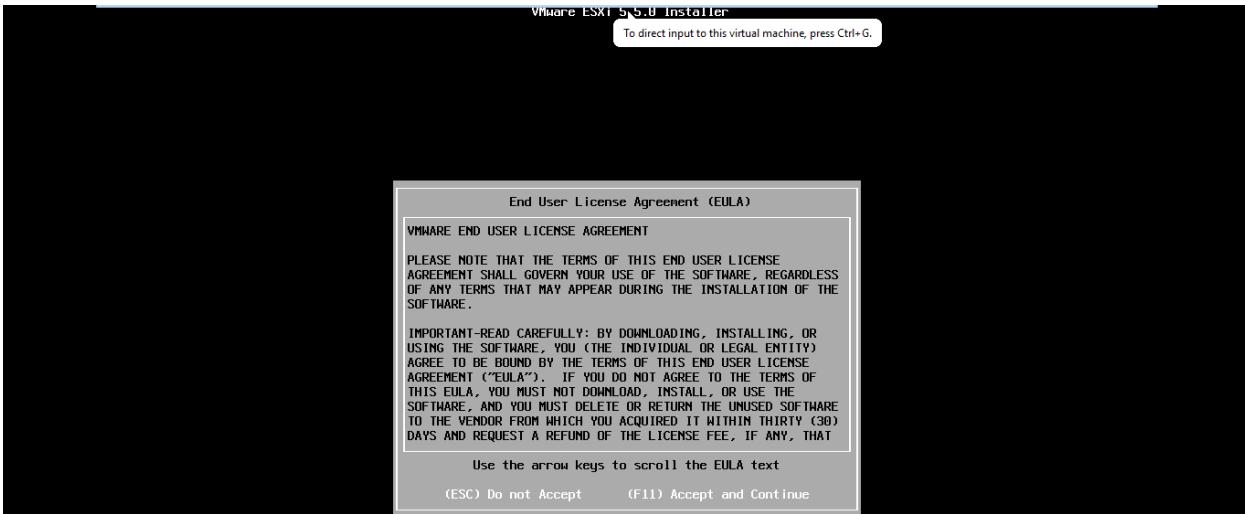


















VMware ESXi 5.5.0 (VMKernel Release Build 2068190)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i5-3230M CPU @ 2.60GHz
4 GiB Memory

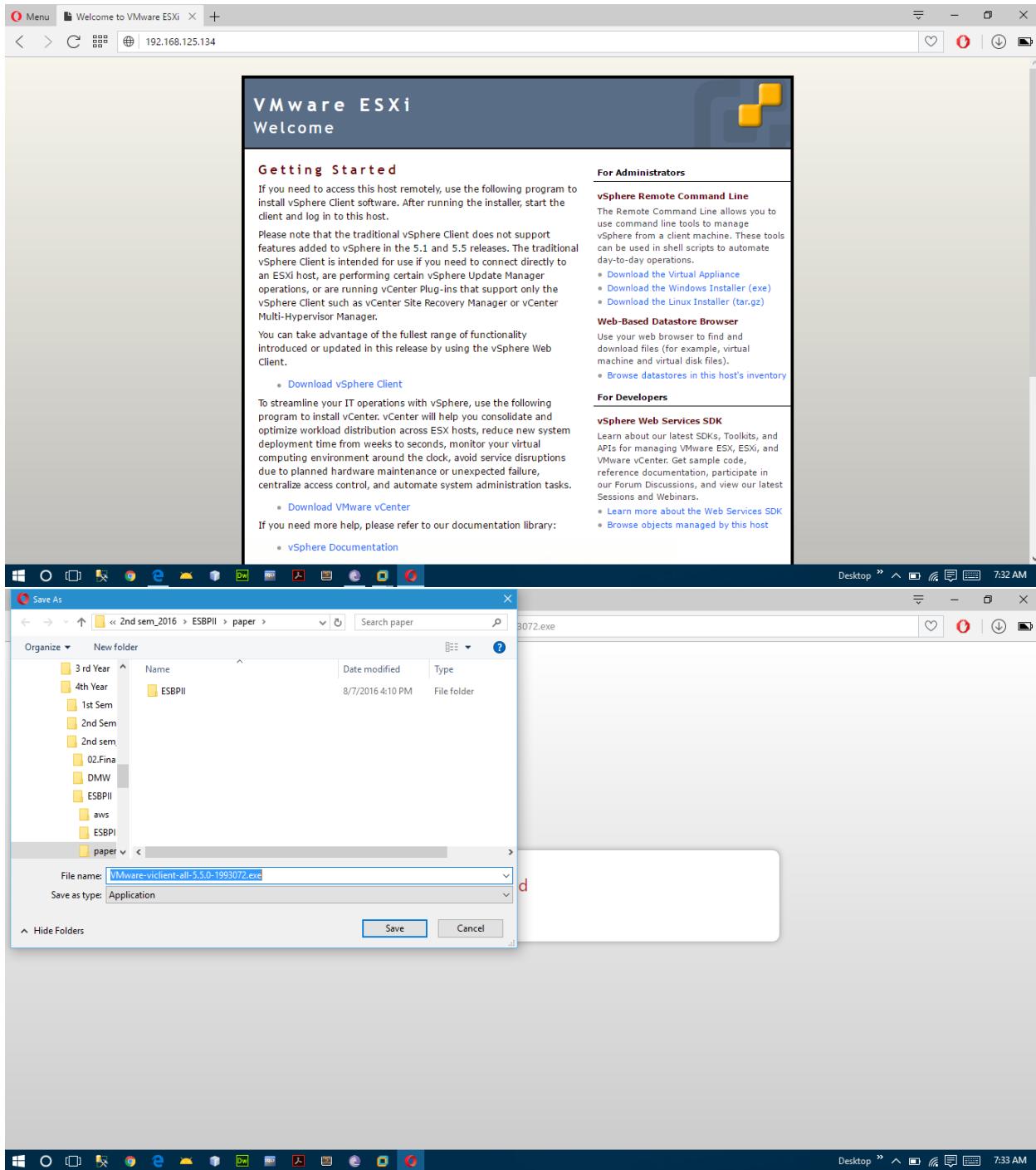
user loaded successfully.

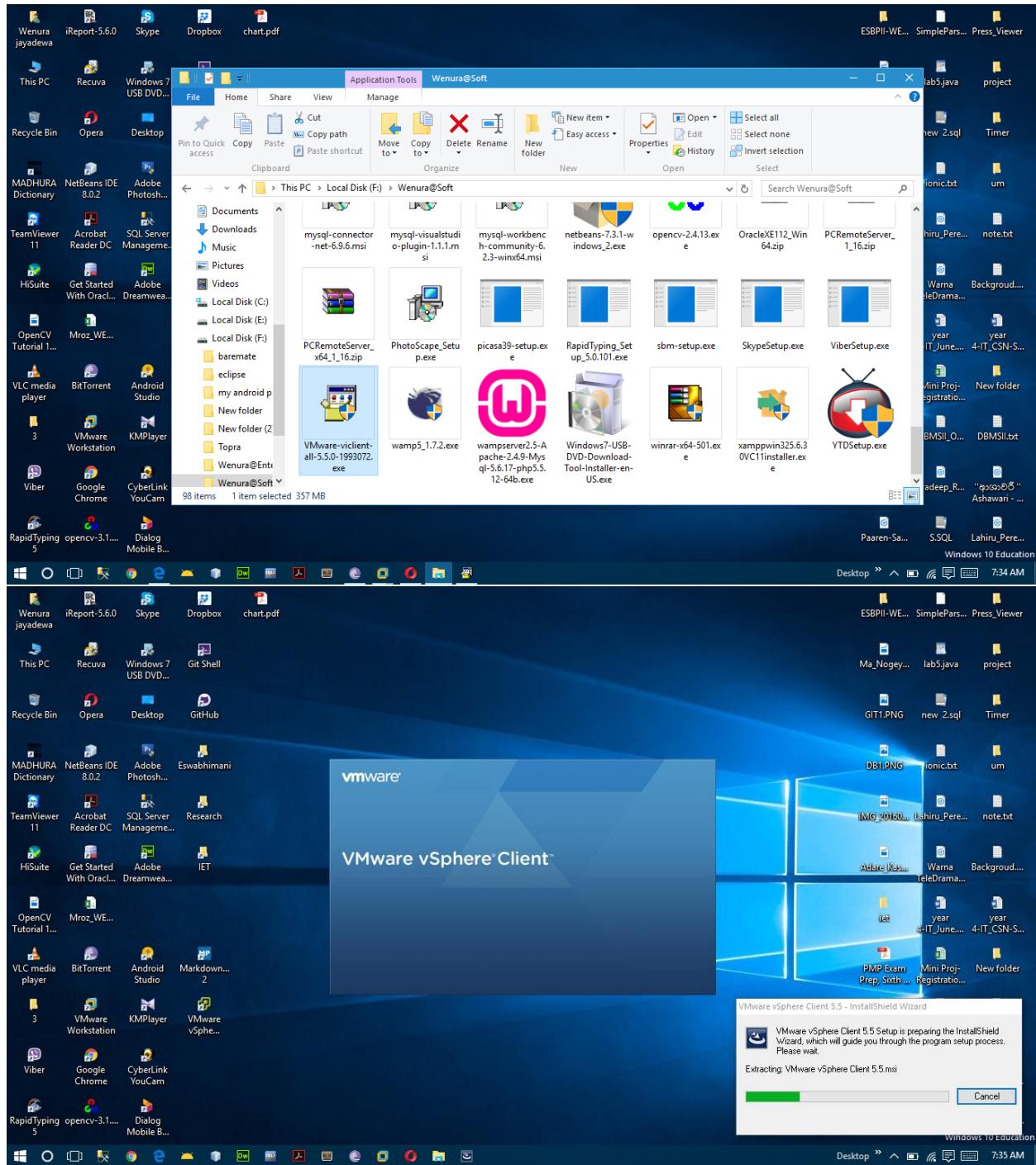
VMware ESXi 5.5.0 (VMKernel Release Build 2068190)
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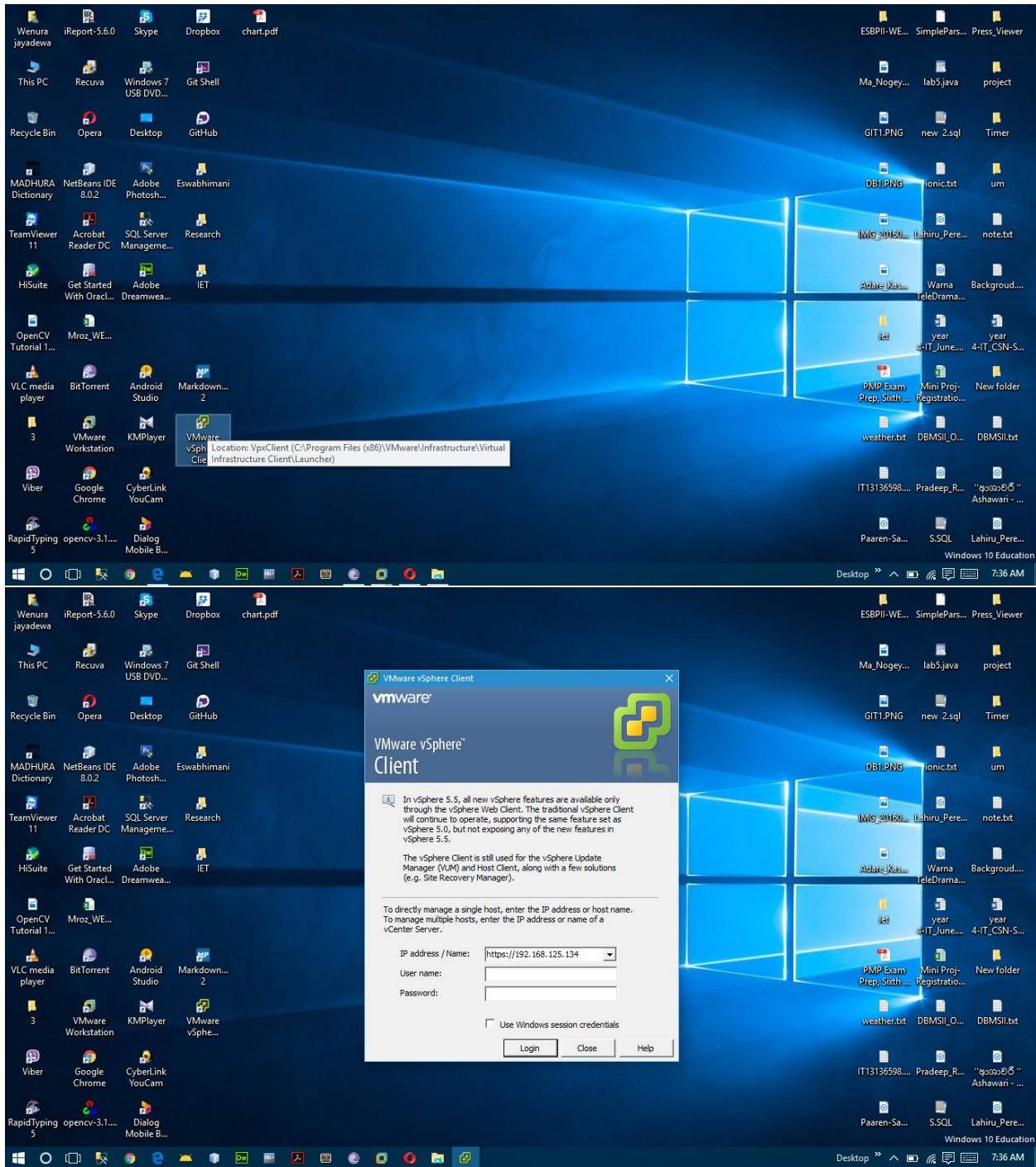
Download tools to manage this host from:
<http://192.168.125.134/> (DHCP)
<http://fe80::20c:29ff:fe53:def11/> (STATIC)

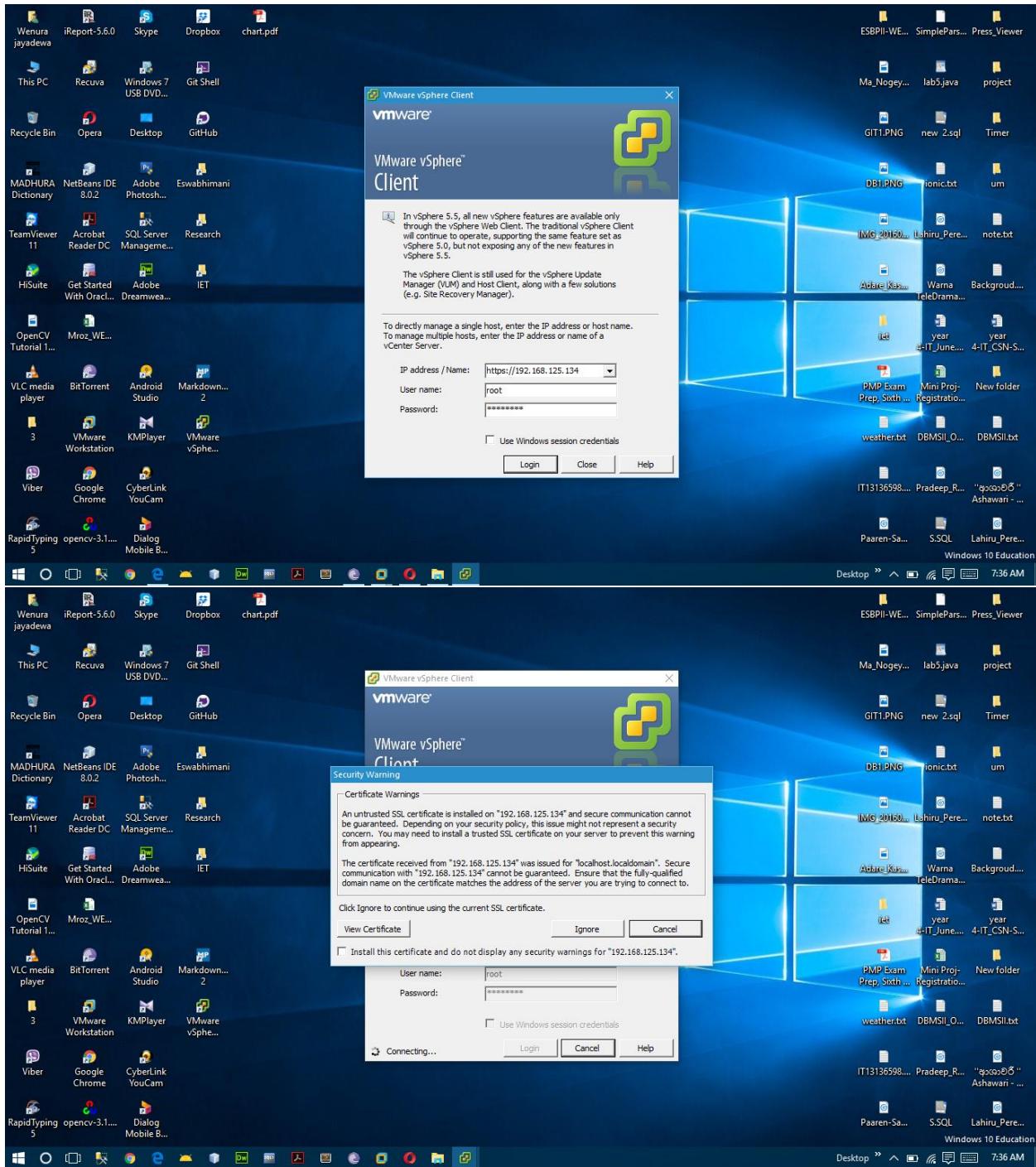
<F2> Customize System/View Logs

<F12> Shut Down/Restart









192.168.125.134 - 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

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 Time	Start Time	Completed Time
Auto power On	192.168.125.1...	Completed		root	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM

Name, Target or Status contains: Clear

Evaluation Mode: 60 days remaining root

Desktop 7:37 AM

192.168.125.134 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home

Inventory

Administration

- Roles
- System Logs

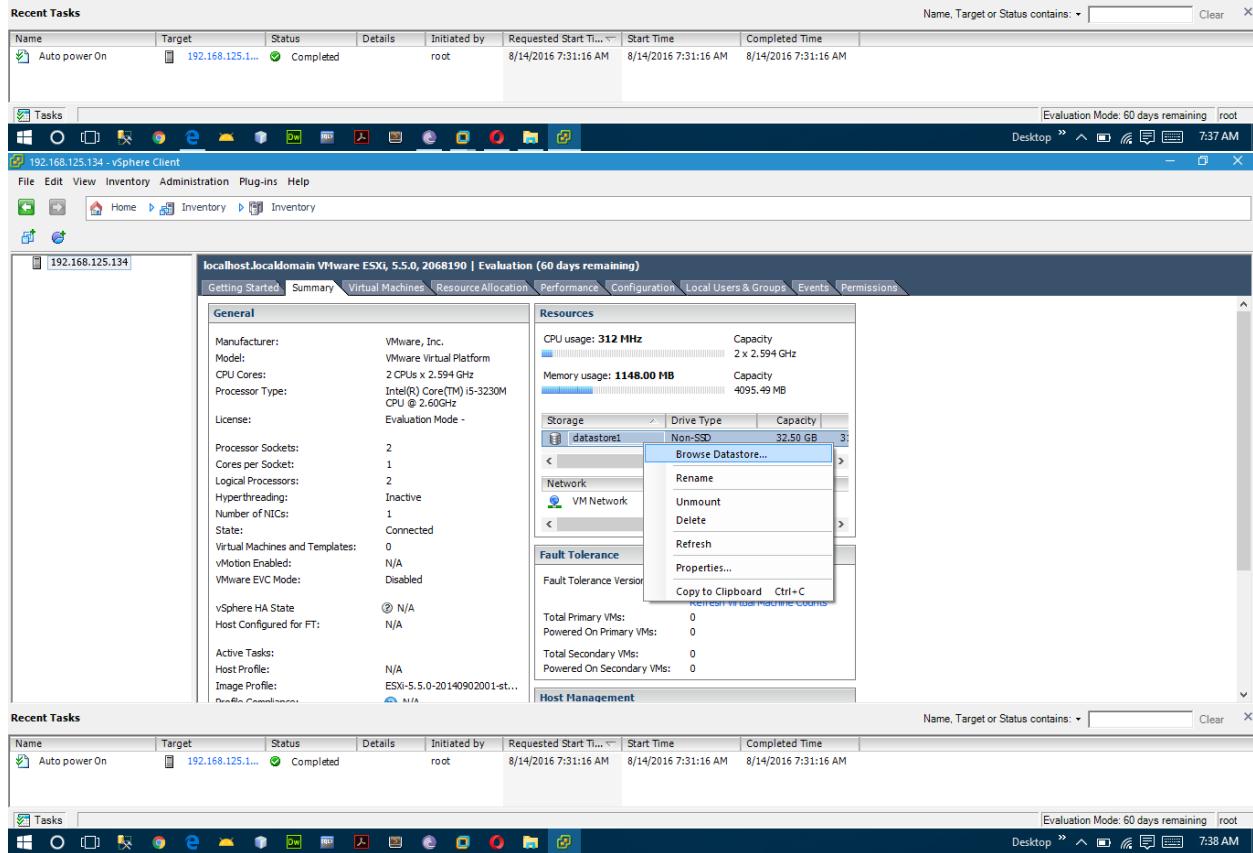
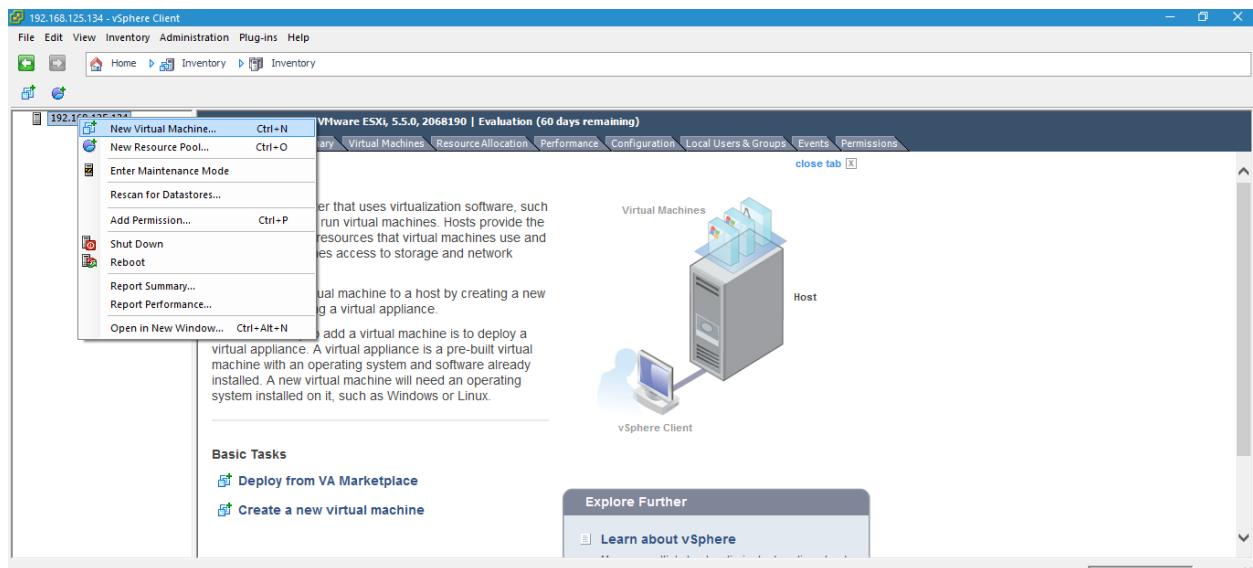
Recent Tasks

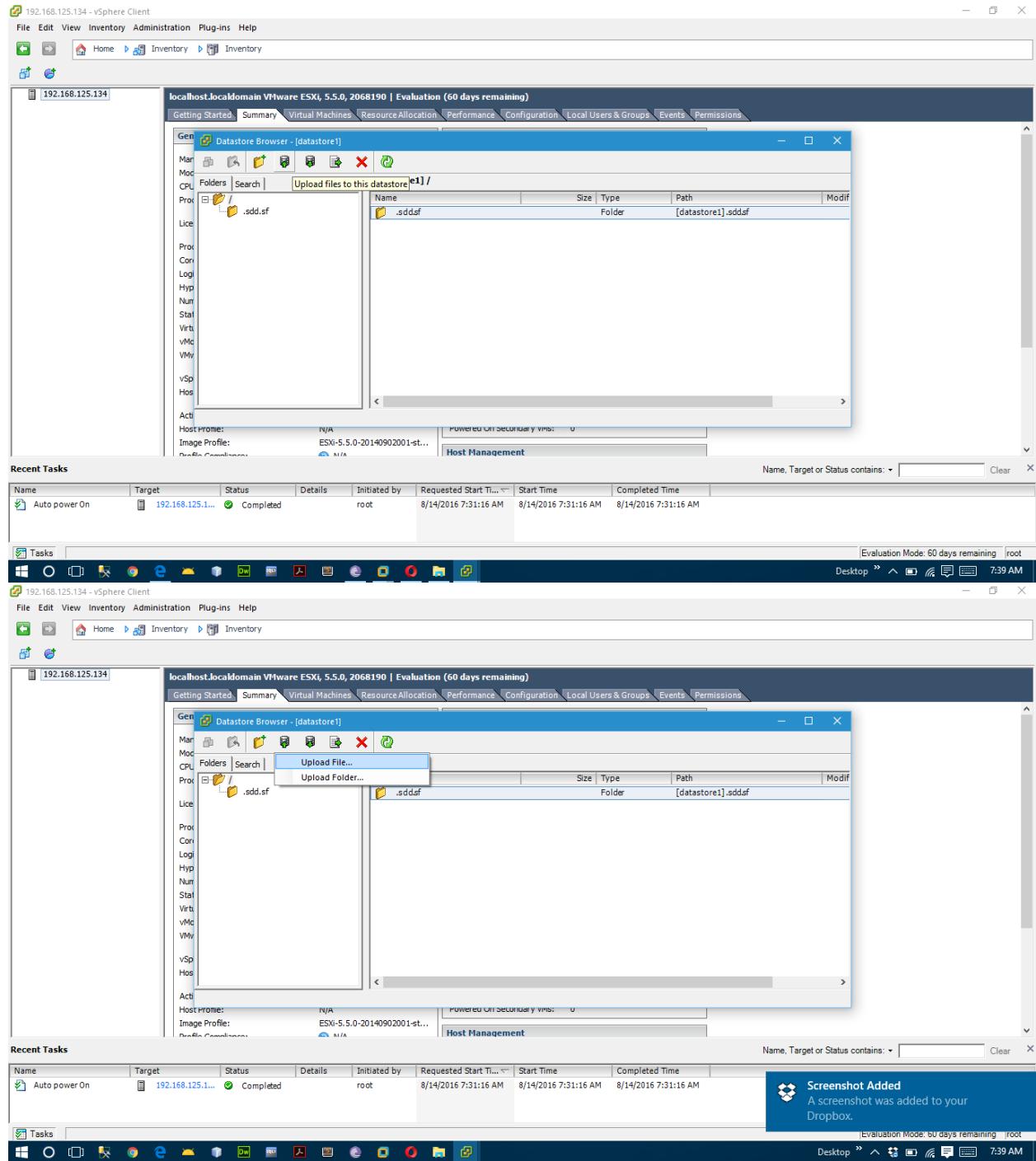
Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Auto power On	192.168.125.1...	Completed		root	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM	8/14/2016 7:31:16 AM

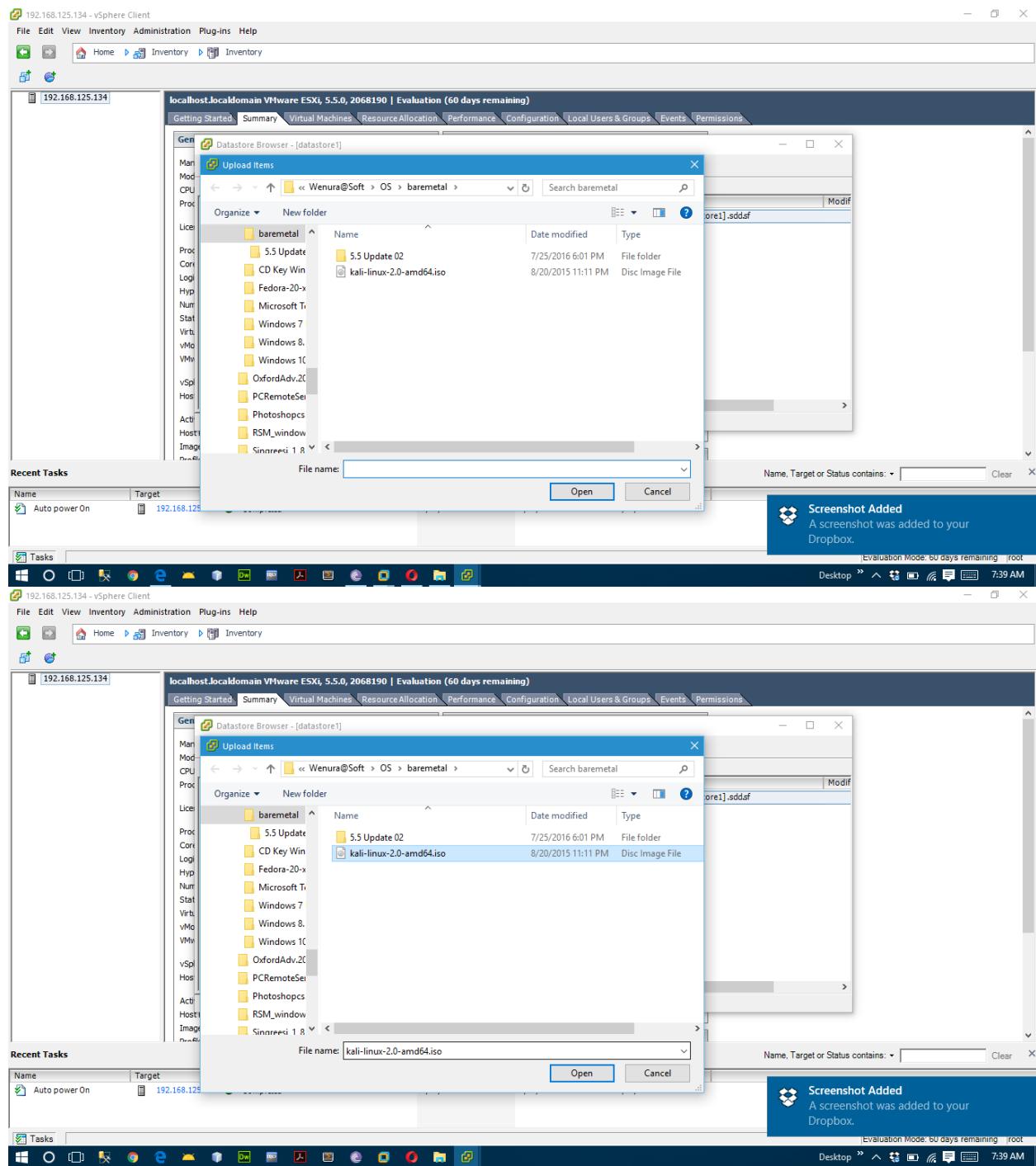
Name, Target or Status contains: Clear

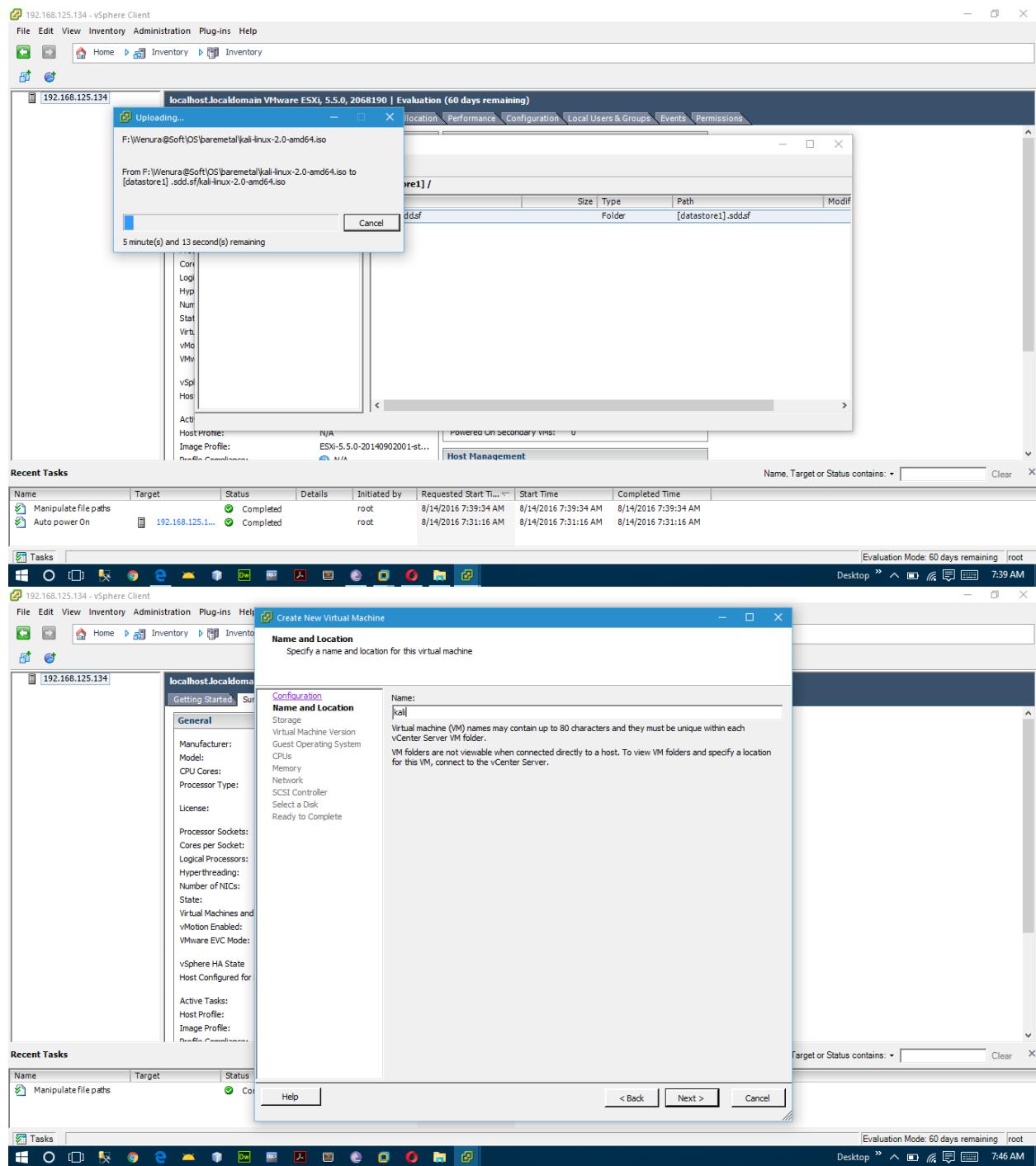
Evaluation Mode: 60 days remaining root

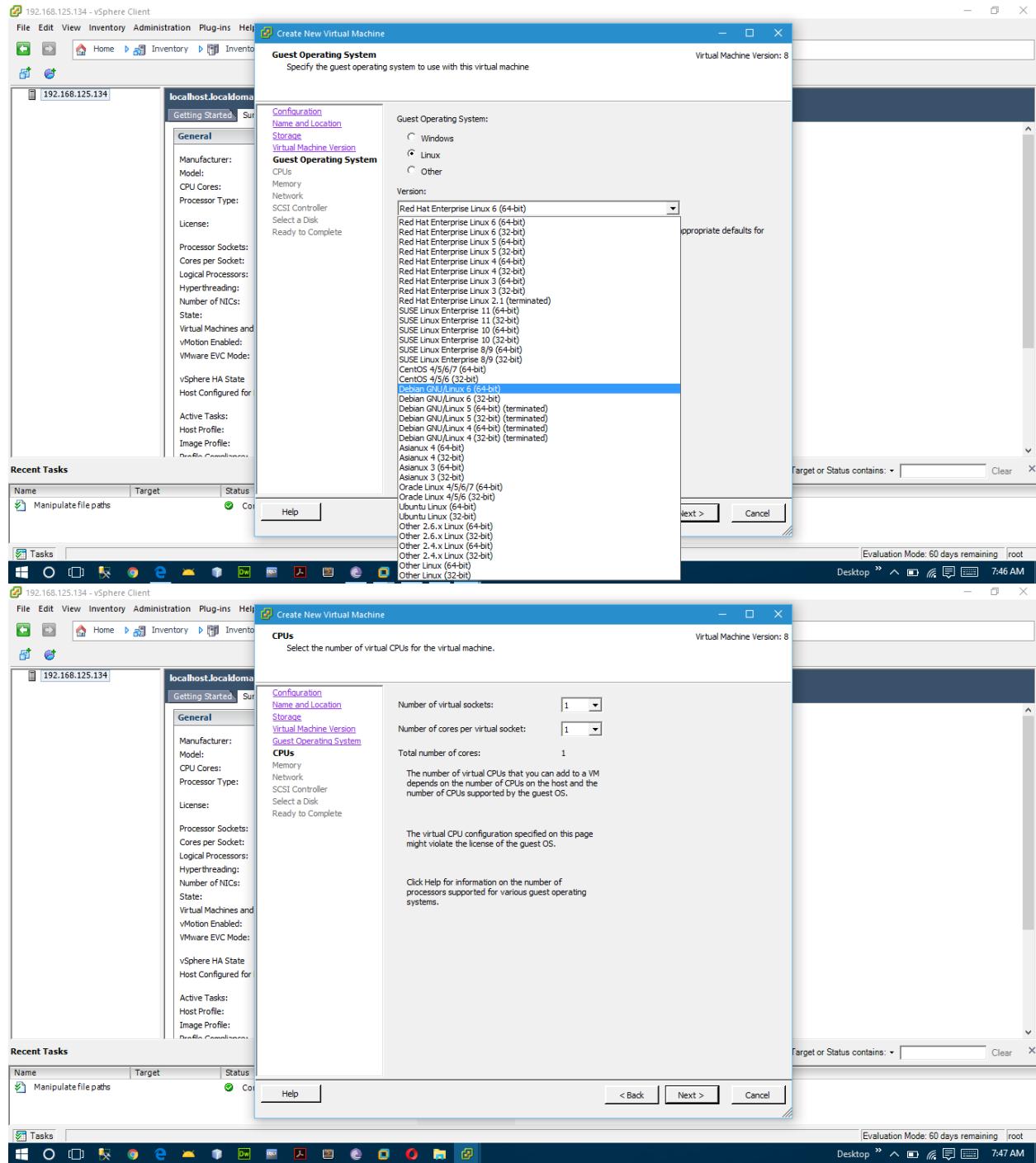
Desktop 7:37 AM

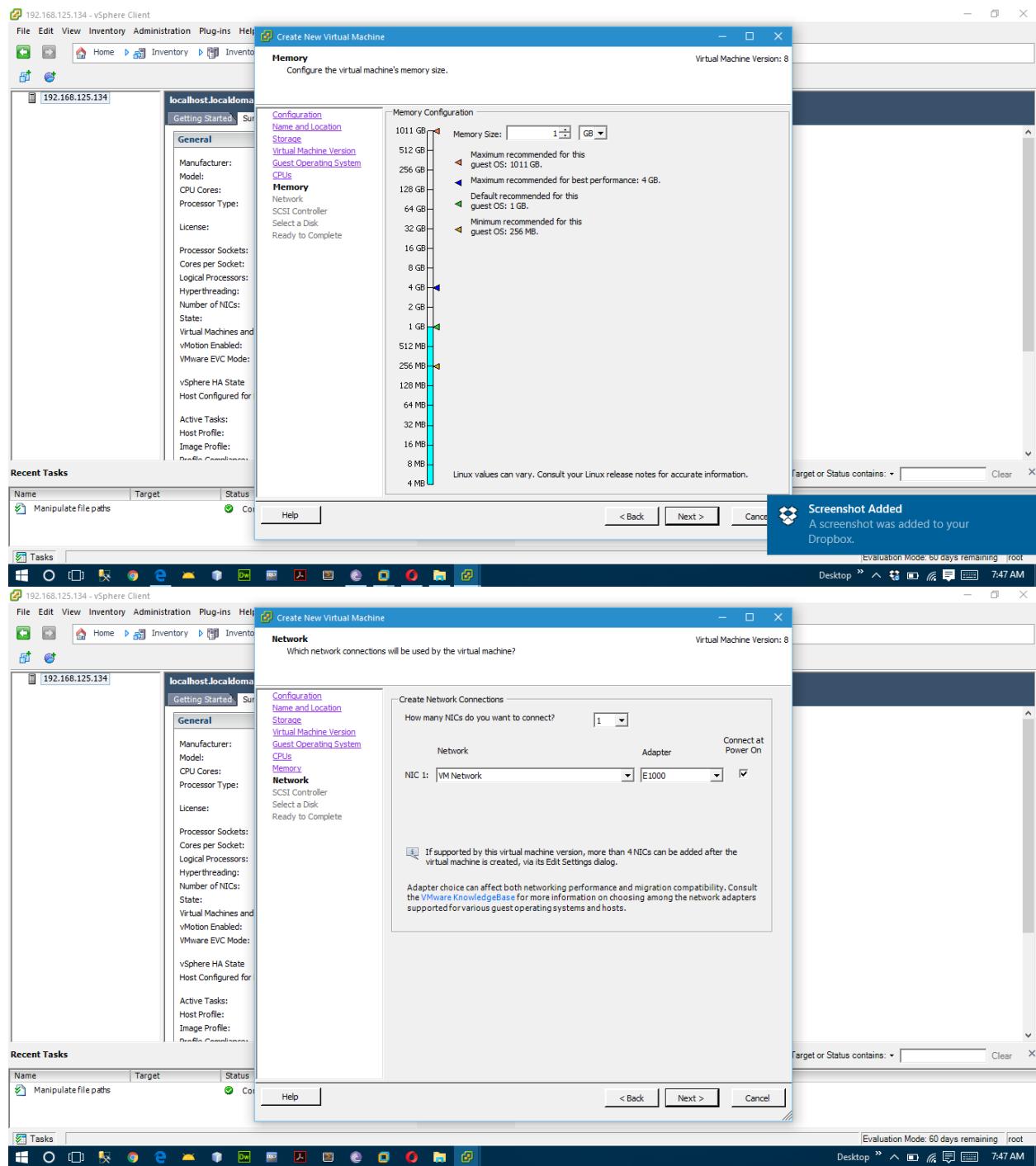


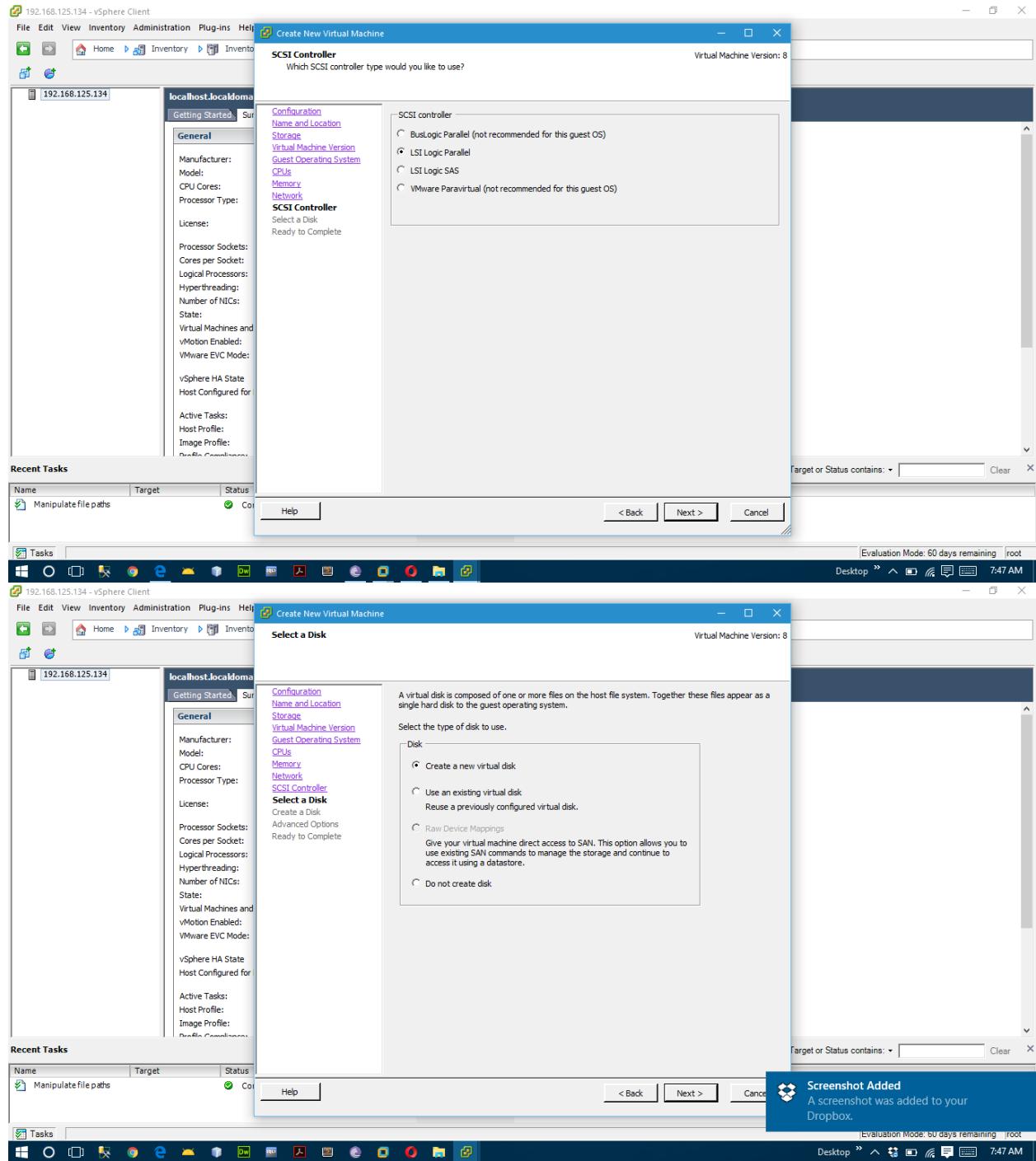


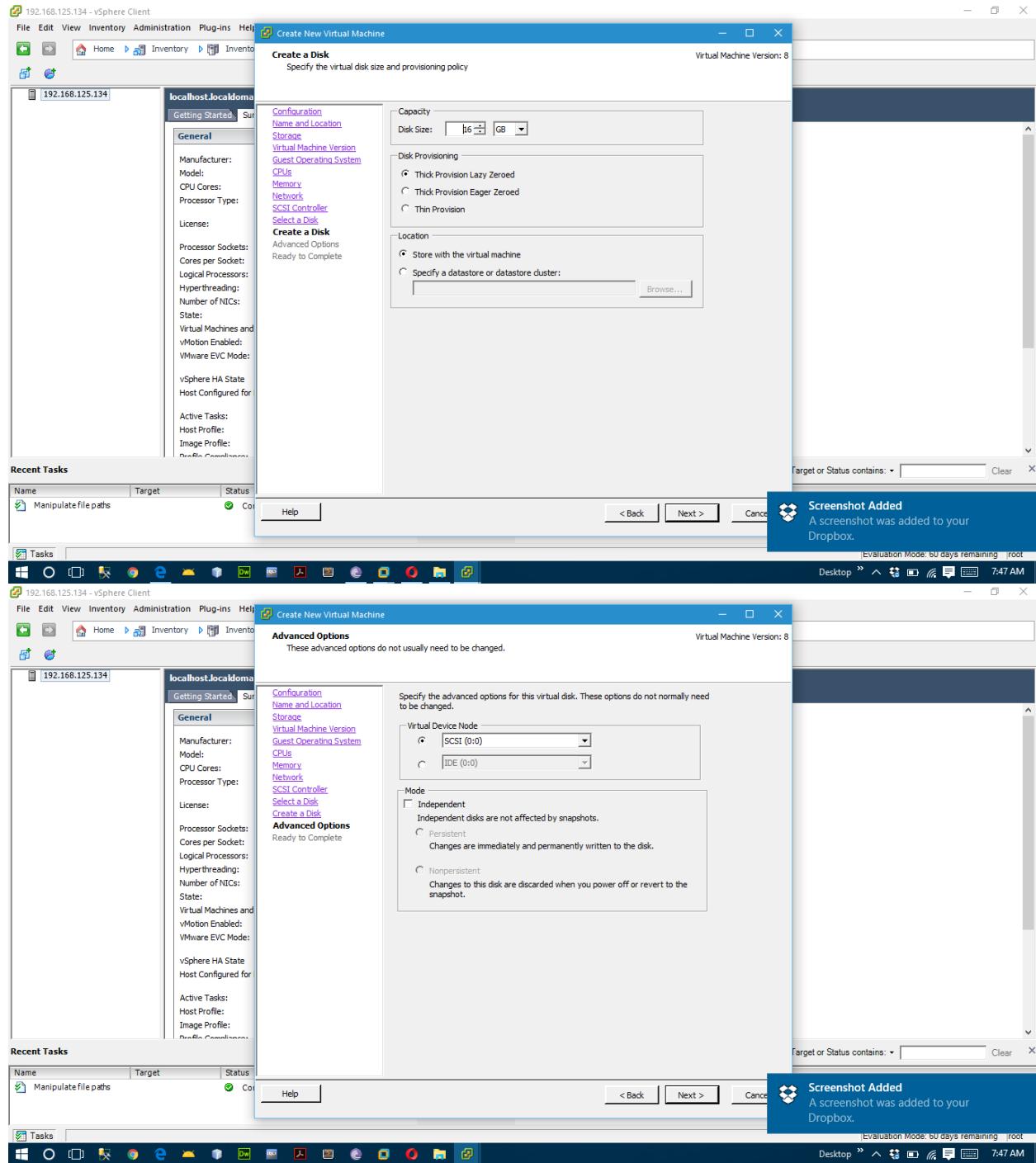












192.168.125.134 - vSphere Client

Create New Virtual Machine

Ready to Complete

Click Finish to start a task that will create the new virtual machine

Virtual Machine Version: 8

Configuration

Name and Location
localhost.localdomain

General

Manufacturer:
Model:
CPU Cores:
Processor Type:
License:
Processor Sockets:
Cores per Socket:
Logical Processors:
Hyperthreading:
Number of NICs:
State:
Virtual Machines and vMotion Enabled:
VMware EVC Mode:
vSphere HA State
Host Configured for:
Active Tasks:
Host Profile:
Image Profile:
Power Combinations

Ready to Complete

Settings for the new virtual machine:

Name:	kali
Host/Cluster:	localhost.localdomain
Datastore:	datastore1
Guest OS:	Debian GNU/Linux 6 (64-bit)
CPU:	1
Memory:	1024 MB
NICs:	1
NIC 1 Network:	VM Network
NIC 1 Type:	E1000
SCSI Controller:	LSI Logic Parallel
Create disk:	New virtual disk
Disk capacity:	16 GB
Disk provisioning:	Thick Provision Lazy Zeroed
Datastore:	datastore1
Virtual Device Node:	SCSI (0:0)
Disk mode:	Persistent

Edit the virtual machine settings before completion

Creation of the virtual machine (VM) does not include automatic installation of the guest operating system. Install a guest OS on the VM after creating the VM.

Help < Back **Finish** Cancel

Recent Tasks

Name	Target	Status
Manipulate file paths	192.168.125.134	Completed

Tasks

192.168.125.134 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

192.168.125.134 kali

Power
Guest
Snapshot
Open Console
Edit Settings...
Upgrade Virtual Hardware
Add Permission... Ctrl+P
Report Performance...
Rename
Open in New Window... Ctrl+Alt+N
Remove from Inventory
Delete from Disk

Virtual Machines

Virtual Machine?

A virtual machine is a software computer that, like a physical computer, runs an operating system and has its own memory, processor, and storage. It runs a guest operating system.

A virtual machine is an isolated computing environment. You can use virtual machines as desktop or server environments, as testing environments, or to run applications.

Virtual machines run on hosts. The same host can run multiple virtual machines.

vSphere Client

Basic Tasks

- ▶ Power on the virtual machine
- ▶ Edit virtual machine settings

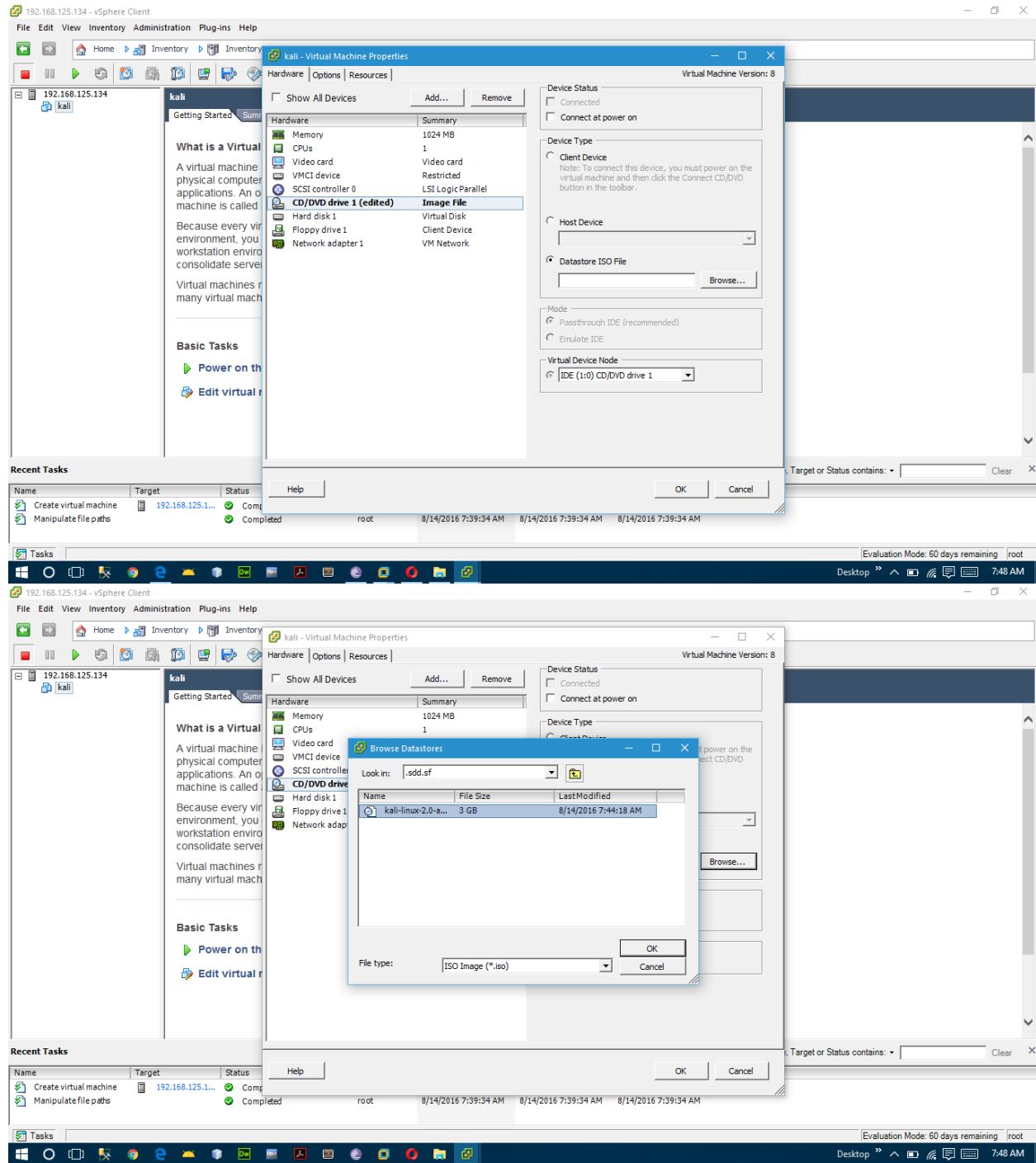
Recent Tasks

Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Create virtual machine	192.168.125.134	Completed		root	8/14/2016 7:47:44 AM	8/14/2016 7:47:44 AM	8/14/2016 7:47:46 AM
Manipulate file paths	192.168.125.134	Completed		root	8/14/2016 7:39:34 AM	8/14/2016 7:39:34 AM	8/14/2016 7:39:34 AM

Tasks

Evaluation Mode: 60 days remaining root

Desktop 7:47 AM



192.168.125.134 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home Inventory Inventory

192.168.125.134 kali

Getting Started Summary

What is a Virtual Machine?

A virtual machine is a physical computer system that runs applications. An operating system running on a virtual machine is called a guest operating system.

Because every virtual machine runs in its own environment, you can work in a virtual environment without impacting your host environment or vice versa.

Virtual machines run in their own environments and do not share resources with other virtual machines.

Basic Tasks

- ▶ Power on the virtual machine
- ▶ Edit virtual machine settings

Recent Tasks

Name	Target	Status
Create virtual machine	192.168.125.1...	Completed
Manipulate file paths		Completed

Virtual Machine Properties

Hardware | Options | Resources

Virtual Machine Version: 8

Device Status: Connected

Device Type: Client Device

CD/DVD drive 1 (edited) [datastore1].sdd.s...

Mode: Passthrough IDE (recommended)

Virtual Device Node: [IDE (1:0)] CD/DVD drive 1

OK Cancel

192.168.125.134 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home Inventory Inventory

192.168.125.134 kali

Power

- Guest
- Snapshot
- Open Console
- Edit Settings...
- Upgrade Virtual Hardware
- Add Permission... Ctrl+P
- Report Performance...
- Rename
- Open in New Window... Ctrl+Alt+N
- Remove from Inventory
- Delete from Disk

Power On Ctrl+B

Power Off Ctrl+E
Suspend Ctrl+Z
Reset Ctrl+T
 Shut Down Guest Ctrl+D
 Restart Guest Ctrl+R

Basic Tasks

- ▶ Power on the virtual machine
- ▶ Edit virtual machine settings

Virtual Machines

vSphere Client

Recent Tasks

Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Reconfigure virtual machine	kali	Completed		root	8/14/2016 7:48:38 AM	8/14/2016 7:48:38 AM	8/14/2016 7:48:39 AM
Create virtual machine	192.168.125.1...	Completed		root	8/14/2016 7:47:44 AM	8/14/2016 7:47:44 AM	8/14/2016 7:47:46 AM
Manipulate file paths		Completed		root	8/14/2016 7:39:34 AM	8/14/2016 7:39:34 AM	8/14/2016 7:39:34 AM

Evaluation Mode: 60 days remaining root

Desktop 7:48 AM

