

# **Sri Lanka Institute of Information Technology**



## **ESBP II – Assignment II**

### **Bare Metal Virtual Machine Installation**

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IT 13 1445 86

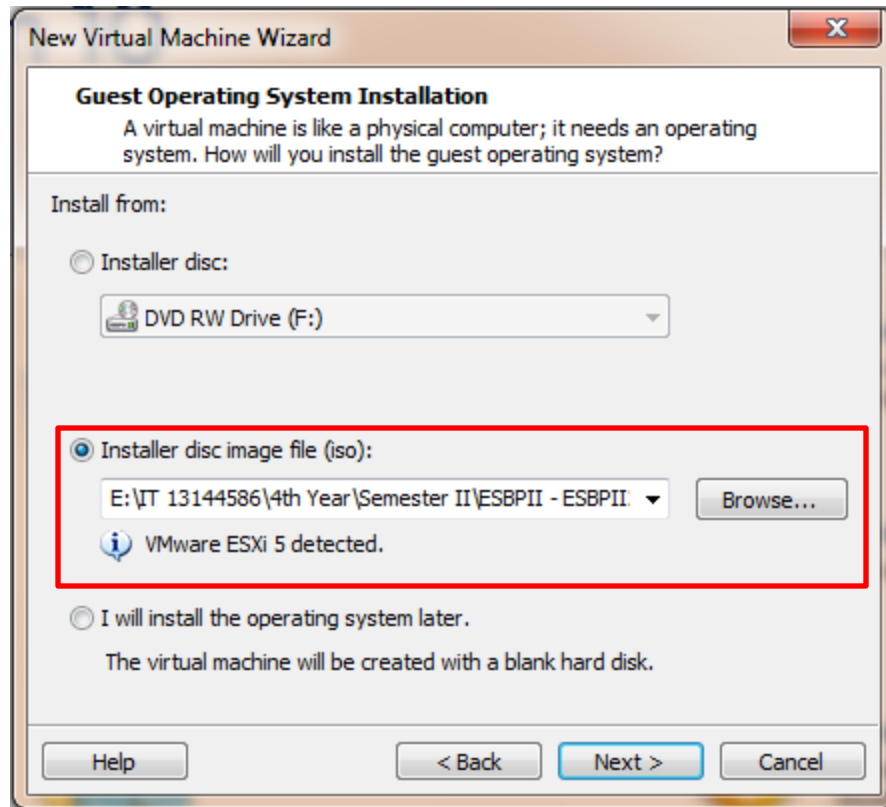
June Batch

## Install ESXI 5.x Image in VMware Workstation

First click **File > New Virtual Machine** from the VMware tool bar to open New Virtual Machine Wizard. Select **Typical** option and click next.



Select **Installer disc image file (ISO)**, and browse and open the ESXI ISO file. Then click next.



Give a name for the virtual machine and choose where to save it. Then click next.

New Virtual Machine Wizard

**Name the Virtual Machine**  
What name would you like to use for this virtual machine?

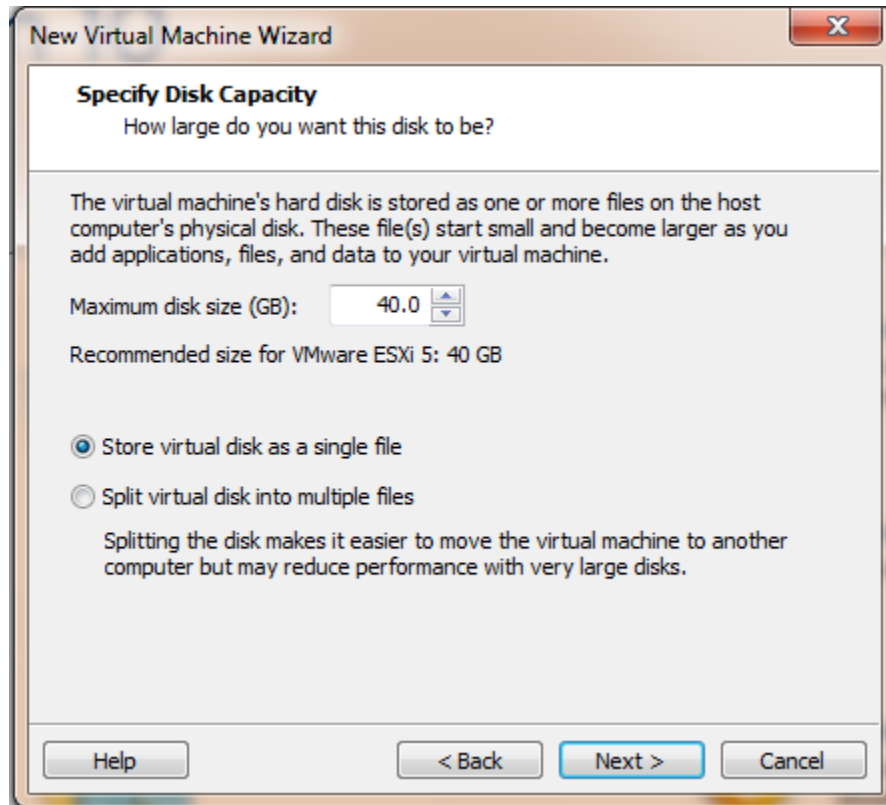
Virtual machine name:  
ESXI\_SERVER

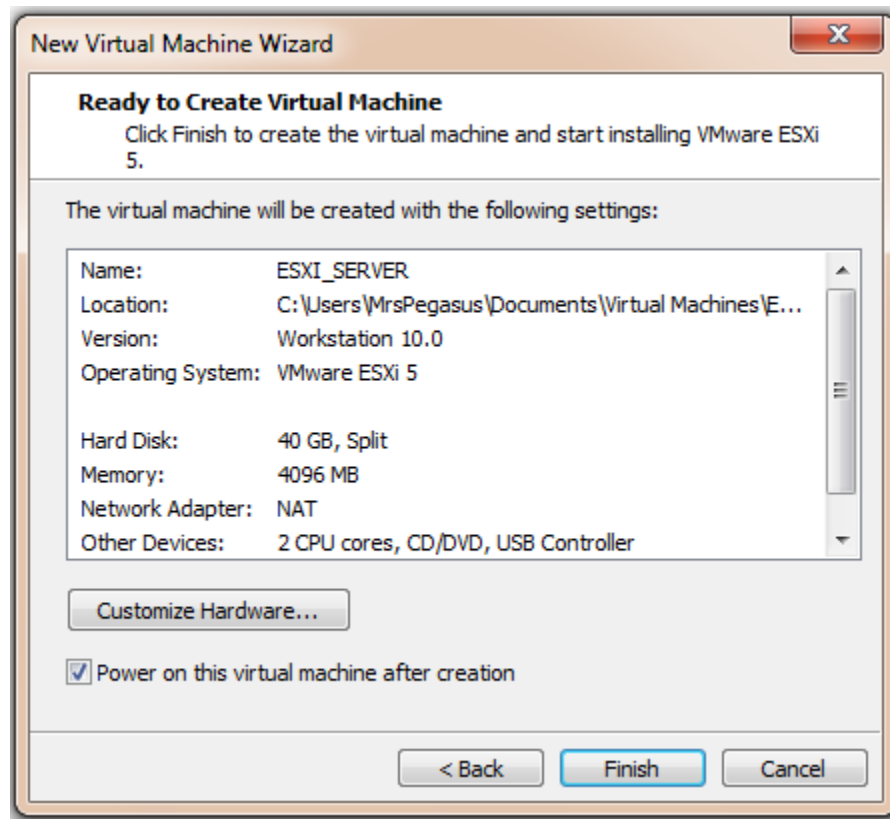
Location:  
C:\Users\MrsPegasus\Documents\Virtual Machines\ESXI\_SERVER Browse...

The default location can be changed at Edit > Preferences.

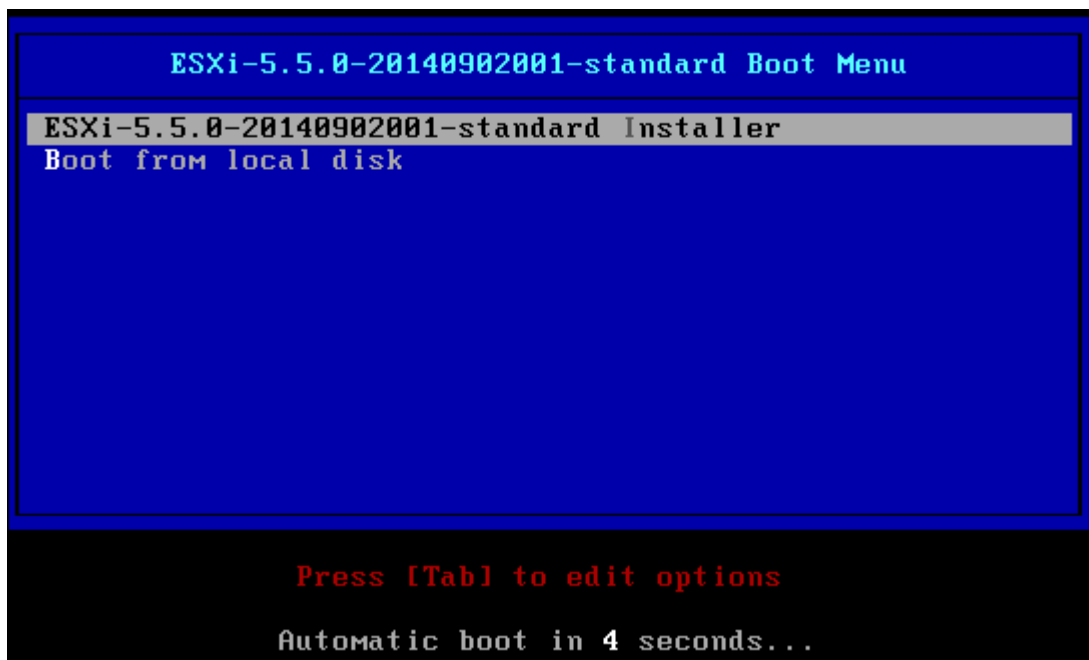
< Back Next > Cancel

Keep the rest of the windows as it is and finally finish it.





After you click finish in above window, the virtual machine will start. Choose **ESXi-5.5.0-20130902001-standard Installer** and press **Enter** or wait 5 seconds to start the boot process.



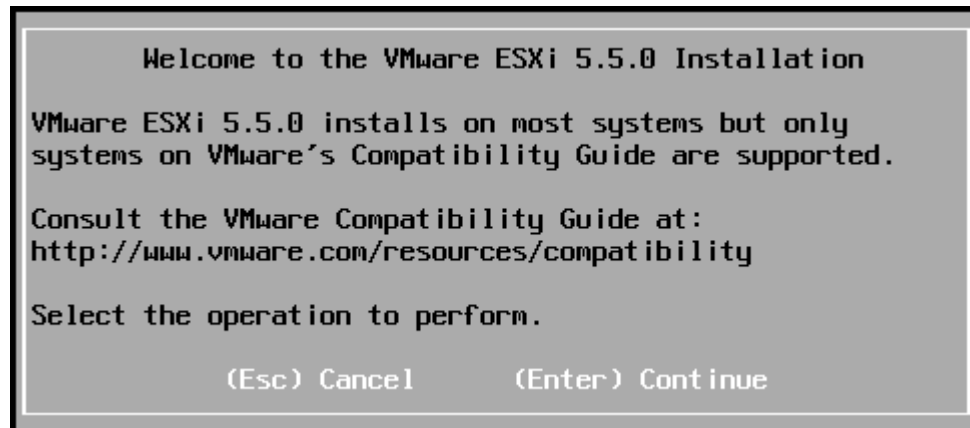
Let the virtual machine to load the ESXi installer.

```
Loading ESXi installer
Loading /net_nlx4.v01
Loading /net_nx_n.v00
Loading /net_tg3.v00
Loading /net_vmxn.v00
Loading /ohci_usb.v00
Loading /qlnative.v00
Loading /rste.v00
Loading /sata_ahc.v00
Loading /sata_ata.v00
Loading /sata_sat.v00
Loading /sata_sat.v01
Loading /sata_sat.v02
Loading /sata_sat.v03
Loading /sata_sat.v04
Loading /scsi_aac.v00
Loading /scsi_adp.v00
Loading /scsi_aic.v00
Loading /scsi_bnx.v00
Loading /scsi_bnx.v01
Loading /scsi_fni.v00
Loading /scsi_hps.v00
Loading /scsi_ips.v00
Loading /scsi_lpf.v00
Loading /scsi_meg.v00
Loading /scsi_meg.v01
Loading /scsi_meg.v02
Loading /scsi_mpt.v00
Loading /scsi_mpt.v01
Loading /scsi_mpt.v02
Loading /scsi_qla.v00
Loading /scsi_qla.v01
Loading /uhci_usb.v00
Loading /tools.t00
```

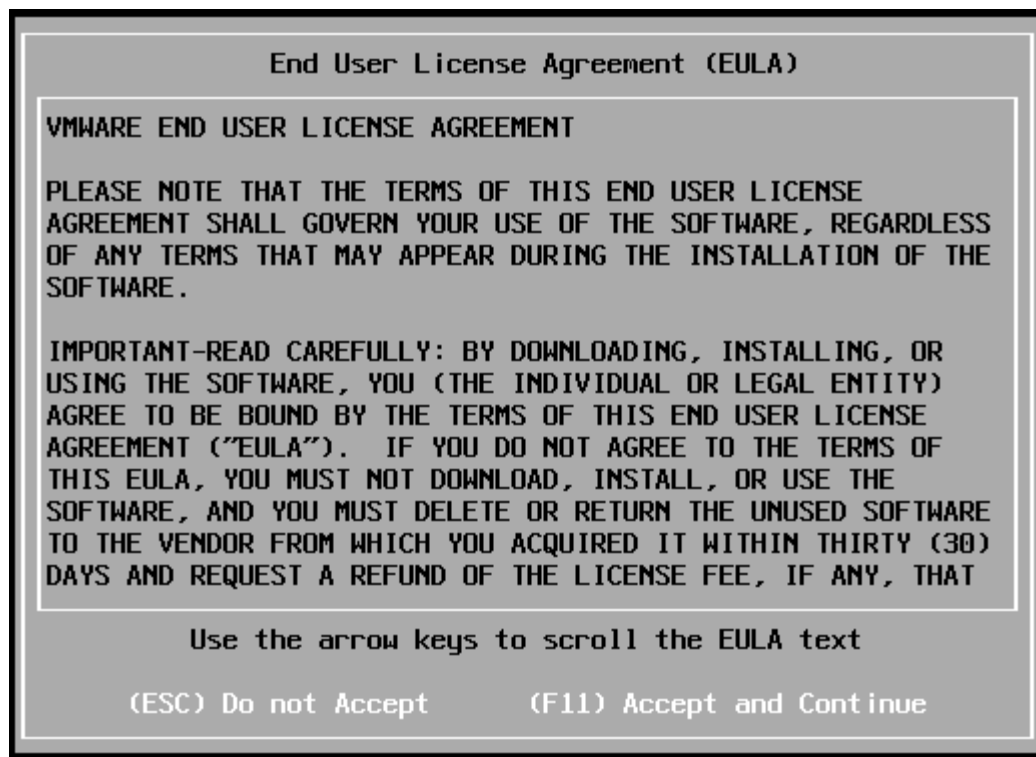
```
VMware ESXi 5.5.0 (VMKernel Release Build 2068190)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i3-2340M CPU @ 2.30GHz
4 GiB Memory

Loading module e1000 ...
```

On the welcome screen press **Enter** to continue.

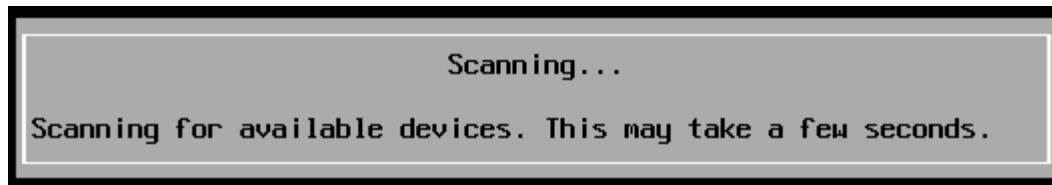


Press **F11** to accept the EULA and continue.

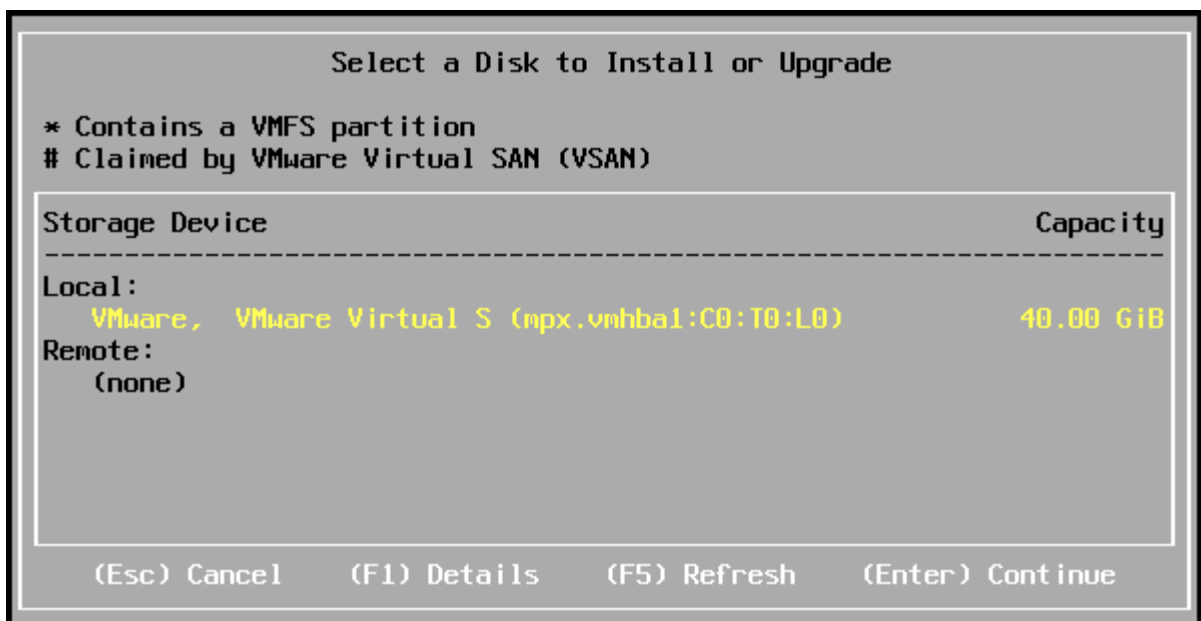




You may have to wait until it scans for available devices.



Select the virtual disk where you want to install, and press **Enter** to continue. You may leave this as it is.



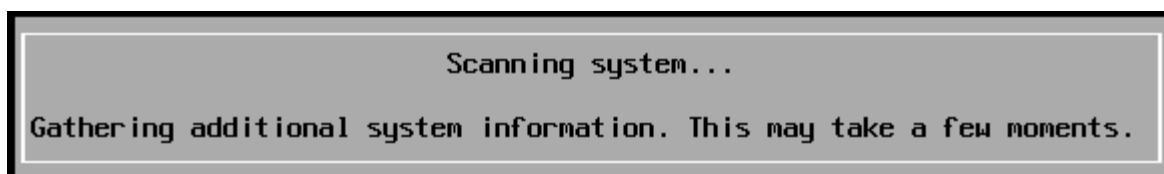
Select the keyboard layout and press **Enter** to continue.



Enter a root password. Press the **Down Arrow** key, and then enter the password again to confirm. Press **Enter** to continue.



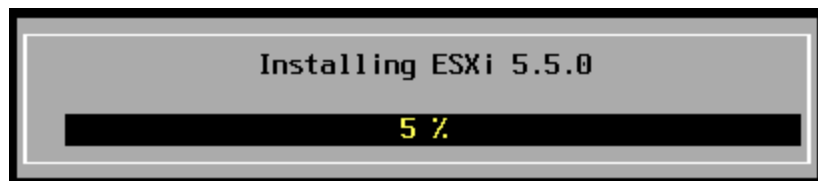
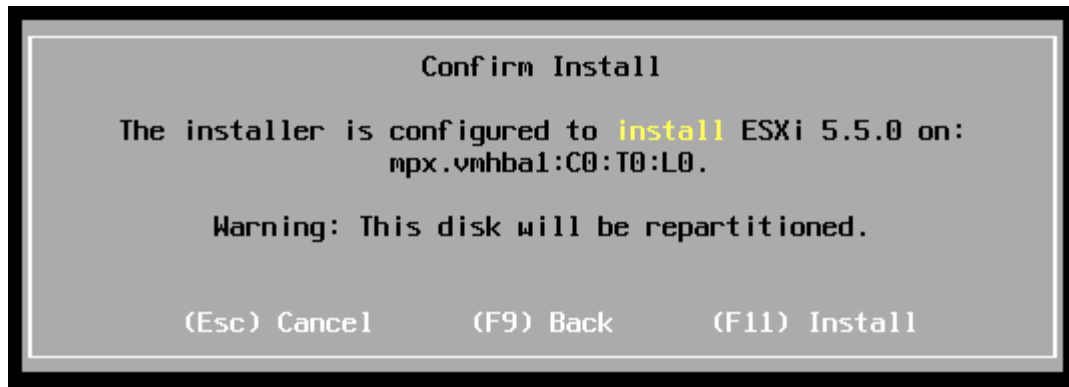
Wait until it gathers additional system information.



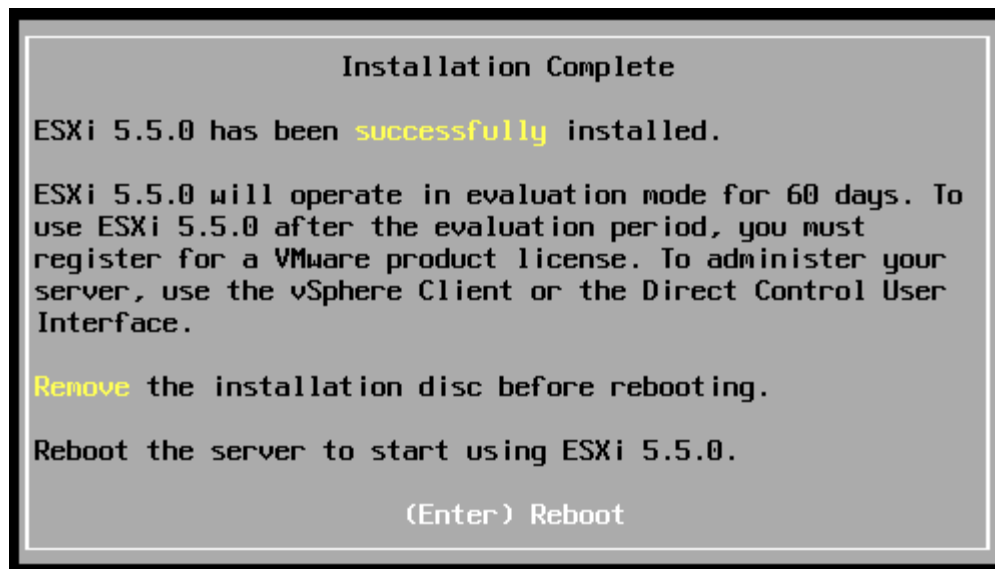
The following warning may appear. This message is expected. Press **Enter** to continue.

```
<HARDWARE_VIRTUALIZATION WARNING: Hardware Virtualization is not a feature  
of the CPU, or is not enabled in the BIOS>
```

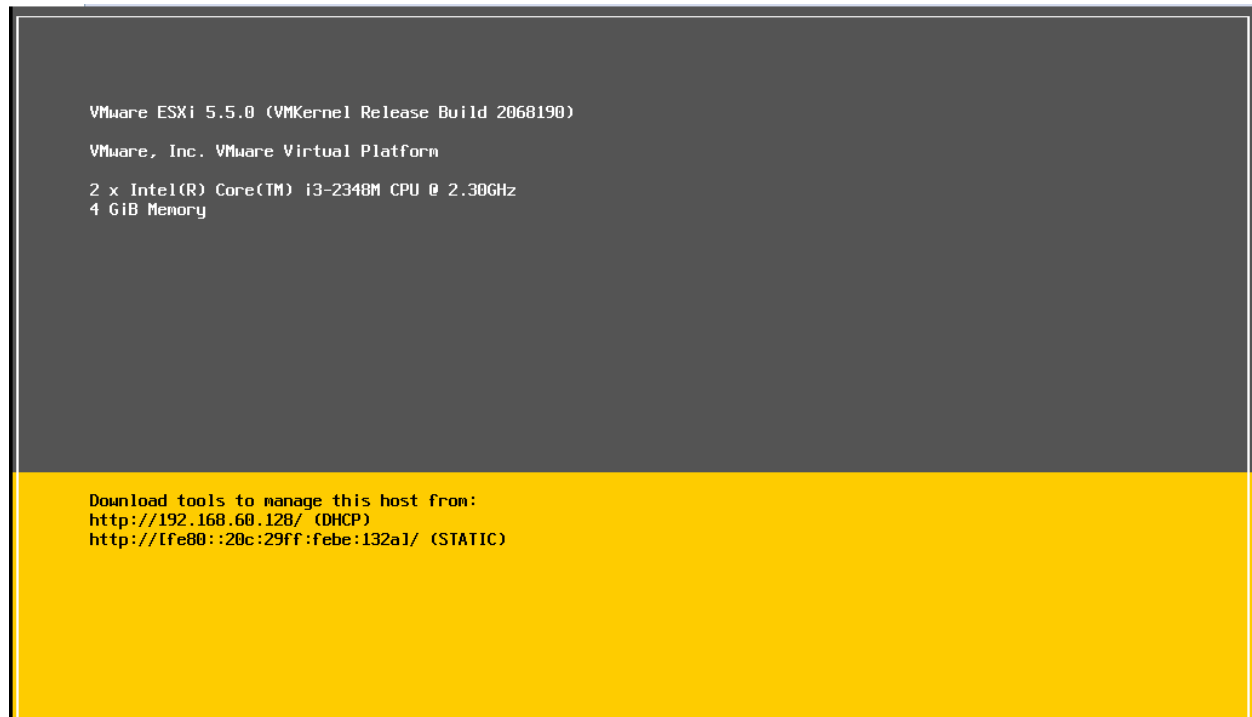
Confirm that the information on the screen is correct and then press **F11** to start the installation.



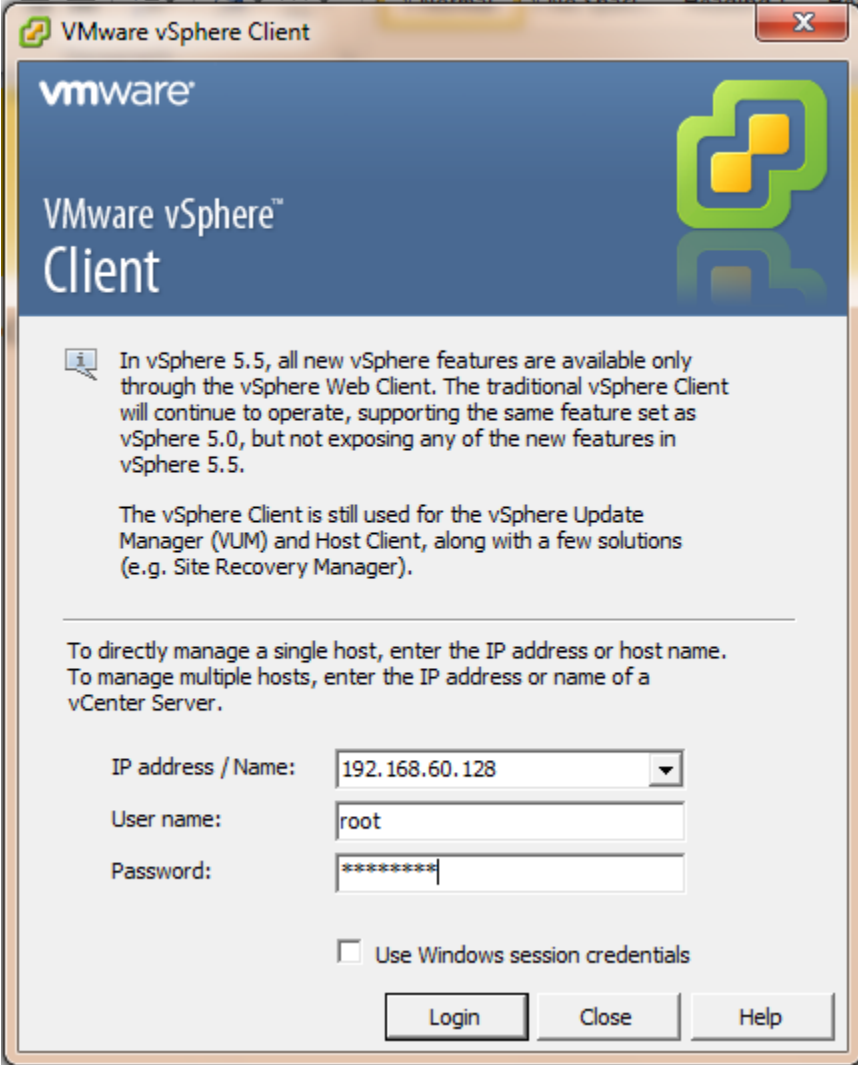
When the installation complete, press **Enter** to reboot.



After reboot, the screen shows the link to download tools. Download vSphere **Client** and install it.



Open **vSphere Client** and provide the IP address previously assigned and the username (root) and the password.



The screenshot shows the VMware vSphere Client login window. The title bar reads "VMware vSphere Client". The main header area features the VMware logo and the text "VMware vSphere Client". Below the header, there is an information icon and a message: "In vSphere 5.5, all new vSphere features are available only through the vSphere Web Client. The traditional vSphere Client will continue to operate, supporting the same feature set as vSphere 5.0, but not exposing any of the new features in vSphere 5.5. The vSphere Client is still used for the vSphere Update Manager (VUM) and Host Client, along with a few solutions (e.g. Site Recovery Manager)." Below this message, there is a section for login credentials. It includes a dropdown menu for "IP address / Name:" with the value "192.168.60.128", a text field for "User name:" with the value "root", and a text field for "Password:" with the value "\*\*\*\*\*". There is also a checkbox labeled "Use Windows session credentials" which is currently unchecked. At the bottom right, there are three buttons: "Login", "Close", and "Help".

VMware vSphere Client

vmware

VMware vSphere™ Client

 In vSphere 5.5, all new vSphere features are available only through the vSphere Web Client. The traditional vSphere Client will continue to operate, supporting the same feature set as vSphere 5.0, but not exposing any of the new features in vSphere 5.5. The vSphere Client is still used for the vSphere Update Manager (VUM) and Host Client, along with a few solutions (e.g. Site Recovery Manager).

To directly manage a single host, enter the IP address or host name.  
To manage multiple hosts, enter the IP address or name of a vCenter Server.

IP address / Name: 192.168.60.128

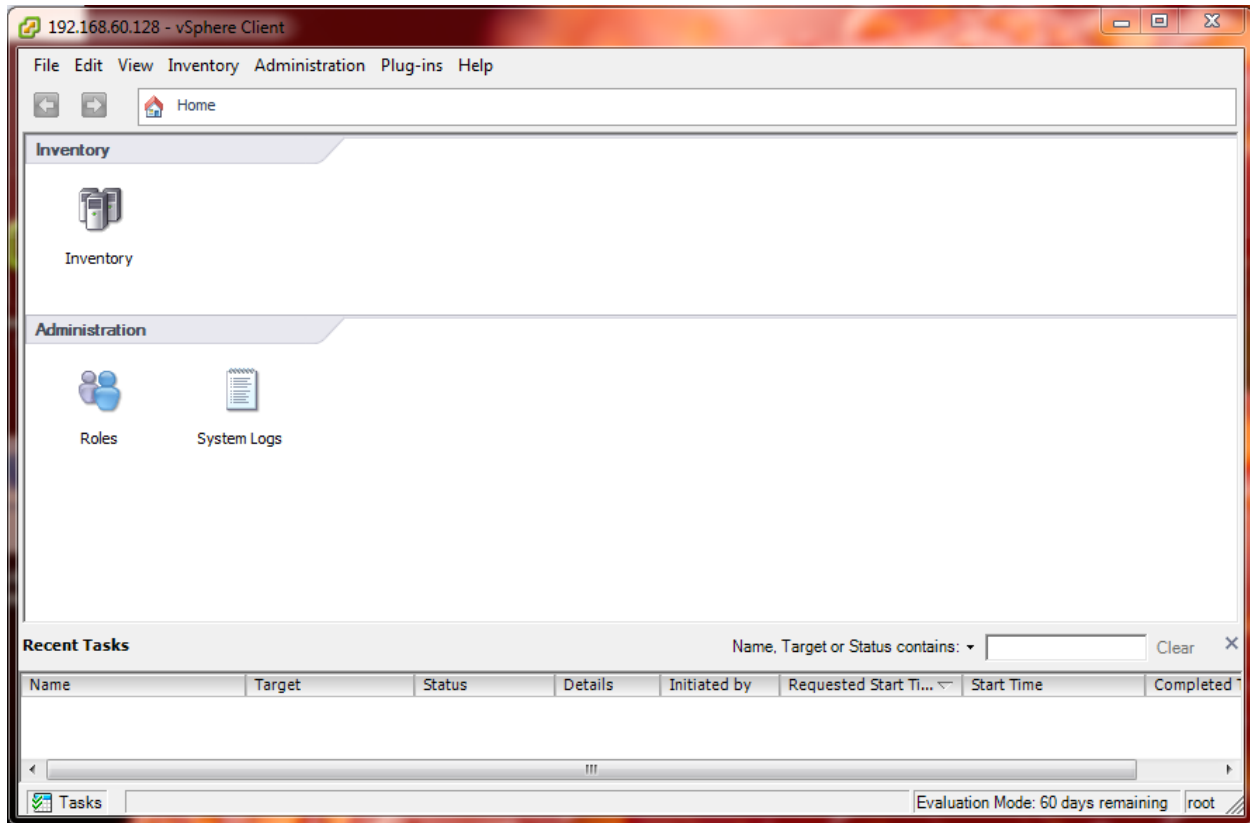
User name: root

Password: \*\*\*\*\*

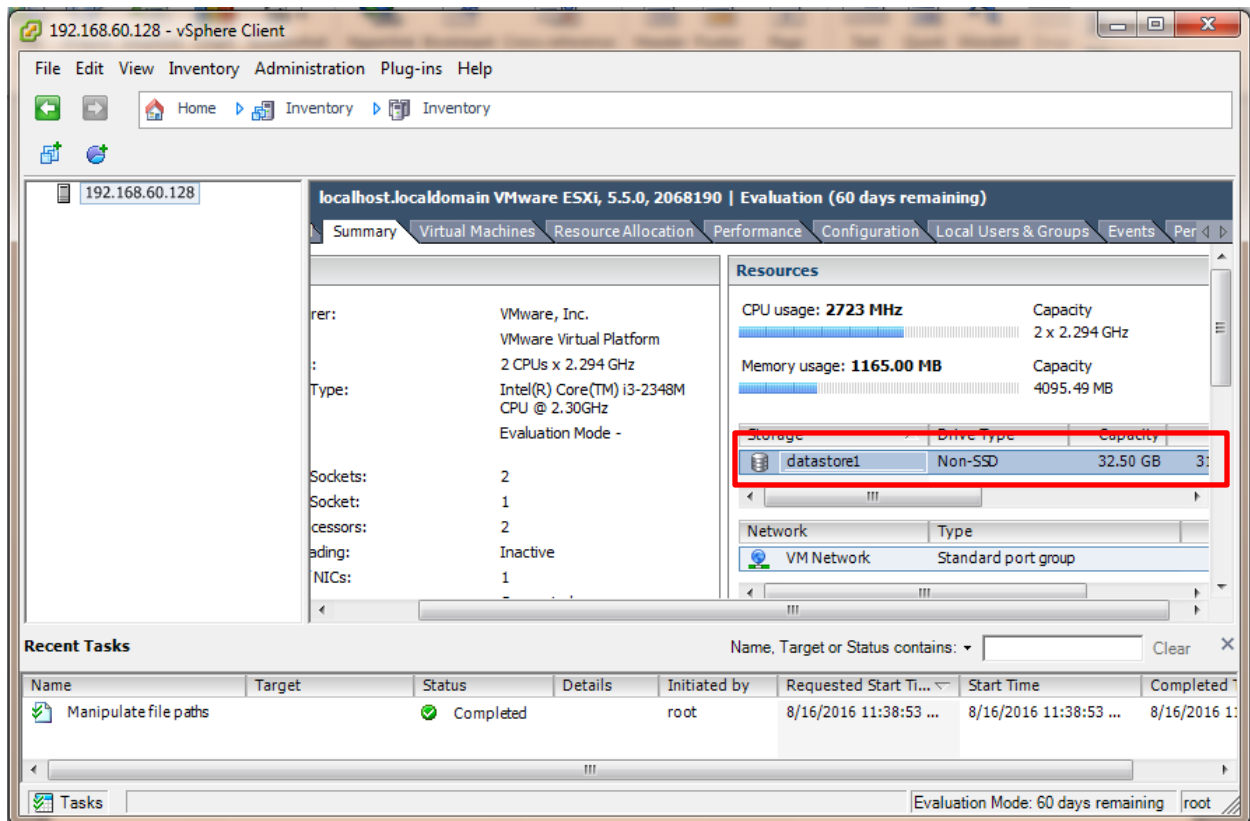
☐ Use Windows session credentials

Login Close Help

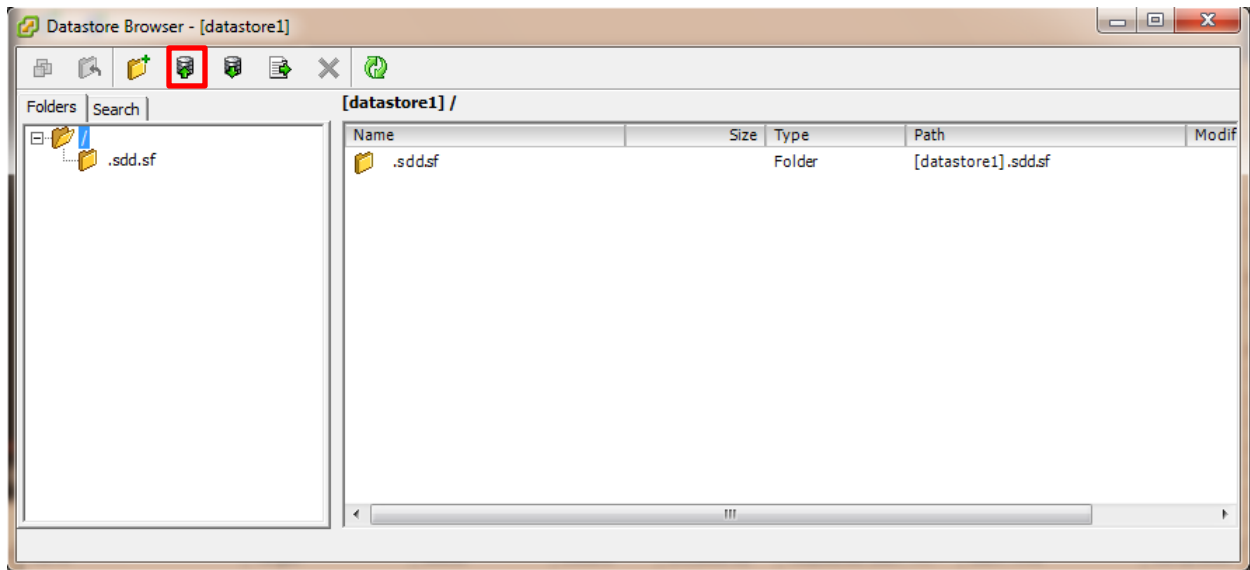
You'll get following window. Select **Inventory**.



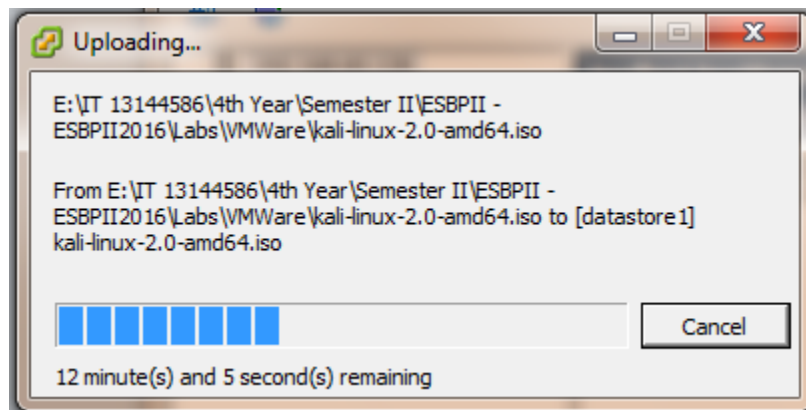
From Inventory window, select **Summary** tab. On the right side, there is a datastore. Right click it and select browse data store.



Select following icon and choose upload file and locate your ISO file.

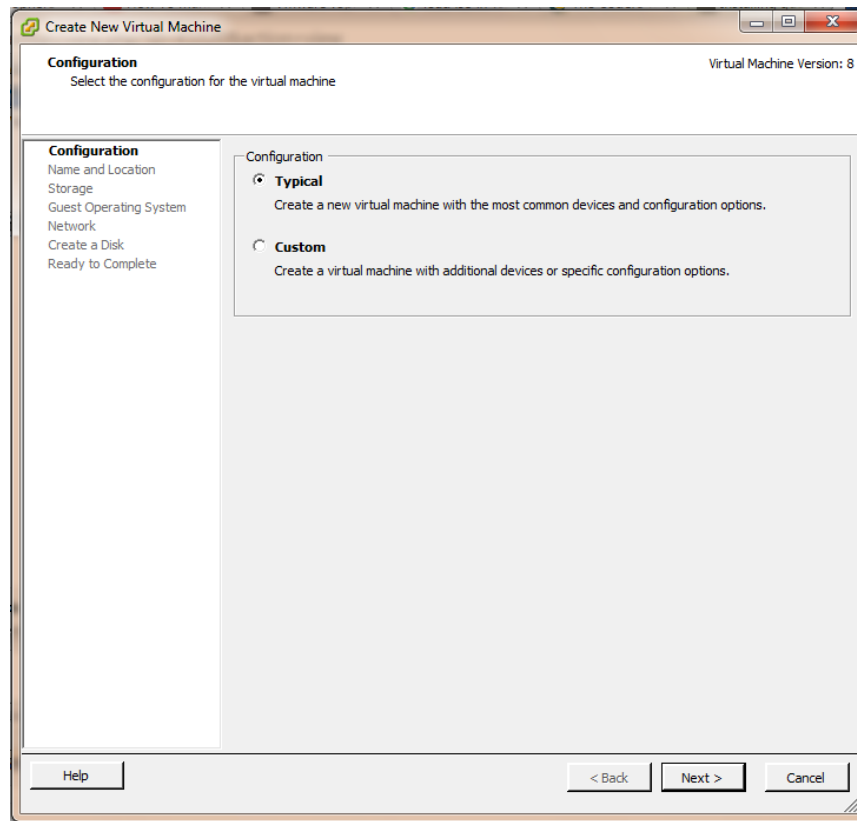


Then it will upload Kali Linux OS image on to the virtual machine.





After upload finished, right click on the IP address and select **New Virtual Machine**. Then select **Typical** option and do the as follows. Click **Next**.



Provide a VM name and keep default values for **Storage**.

Select Linux option the **Guest Operating System** tab.

Keep the default values on the **Network** tab.

On the **Create a Disk** tab select **Thin Provision**. Click **Next** and finish the wizard

The screenshot shows the 'Create New Virtual Machine' wizard window. The title bar reads 'Create New Virtual Machine'. The main window has a title bar with standard Windows controls. The main content area is titled 'Create a Disk' with the subtitle 'Specify the virtual disk size and provisioning policy'. In the top right corner, it says 'Virtual Machine Version: 8'. On the left side, there is a navigation pane with links: 'Configuration', 'Name and Location', 'Storage', 'Guest Operating System', 'Network', and 'Create a Disk' (which is highlighted). Below 'Create a Disk' is the text 'Ready to Complete'. The main area contains the following fields and options: 'Datastore:' with a text box containing 'datastore1'; 'Available space (GB):' with a text box containing '31.6'; 'Virtual disk size:' with a spinner box set to '16' and a dropdown menu set to 'GB'; and three radio button options: 'Thick Provision Lazy Zeroed', 'Thick Provision Eager Zeroed', and 'Thin Provision' (which is selected). At the bottom, there are three buttons: 'Help', '< Back', and 'Next >', and a 'Cancel' button on the far right.

Create New Virtual Machine

**Create a Disk**  
Specify the virtual disk size and provisioning policy

Virtual Machine Version: 8

[Configuration](#)  
[Name and Location](#)  
[Storage](#)  
[Guest Operating System](#)  
[Network](#)  
**Create a Disk**  
Ready to Complete

Datastore: datastore1

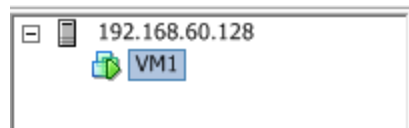
Available space (GB): 31.6

Virtual disk size: 16 GB

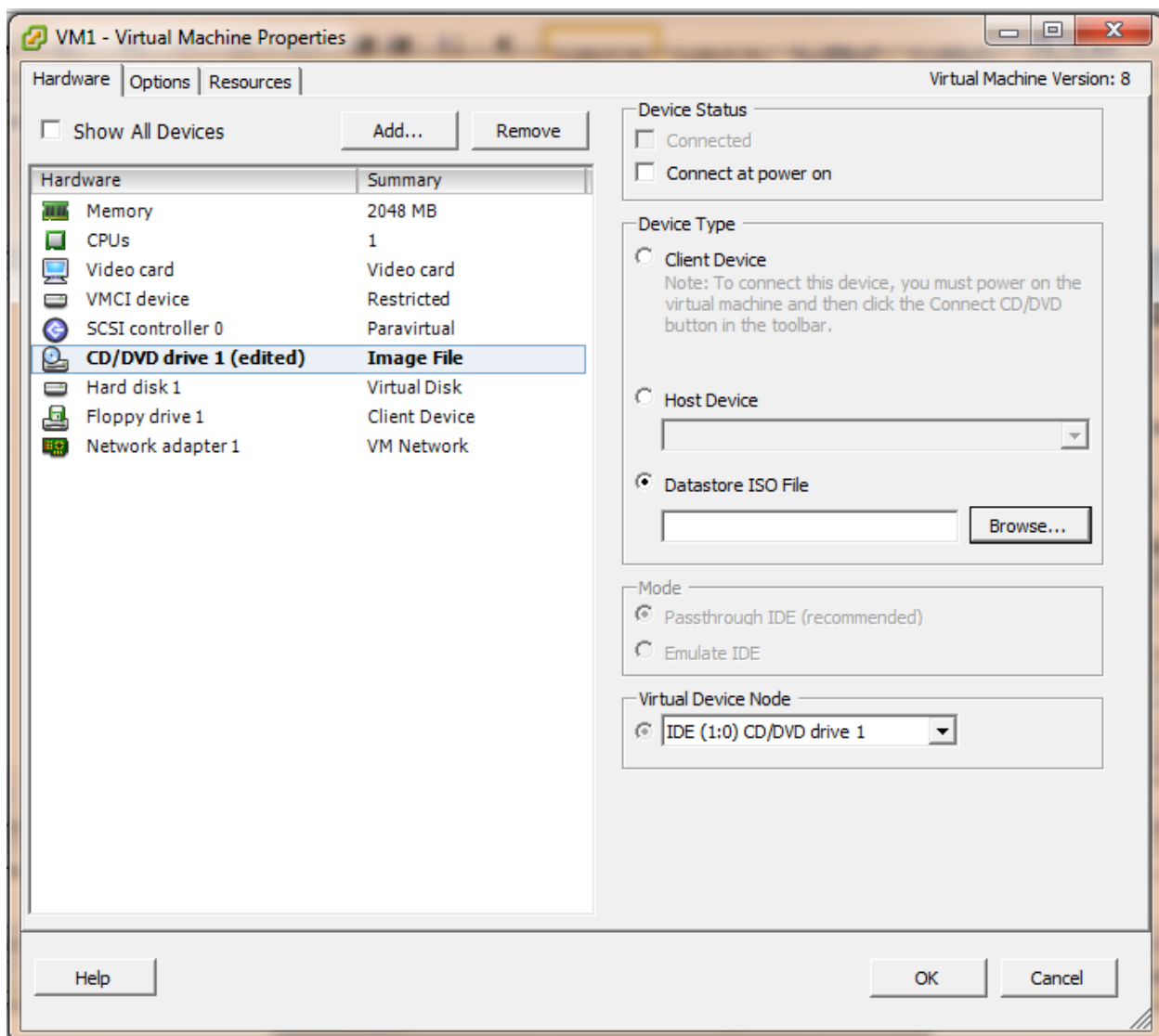
☐ Thick Provision Lazy Zeroed  
☐ Thick Provision Eager Zeroed  
☒ Thin Provision

Help < Back Next > Cancel

Now you can see the virtual machine you created on the left side under the IP address.



Right click on the virtual machine name and select **Edit Settings**. You'll get a window as follows. Select **CD/DVD drive**. On the right hand side select **Connect at power on** option under Device Status. Select **Datastore ISO File** under **Device Type** and browse the OS image under the datastore. Click **OK**.



Right click on the name of your virtual machine and click **Power > Power On**. Your virtual machine will be powered on. Click on the **Console** tab to view your virtual machine.

