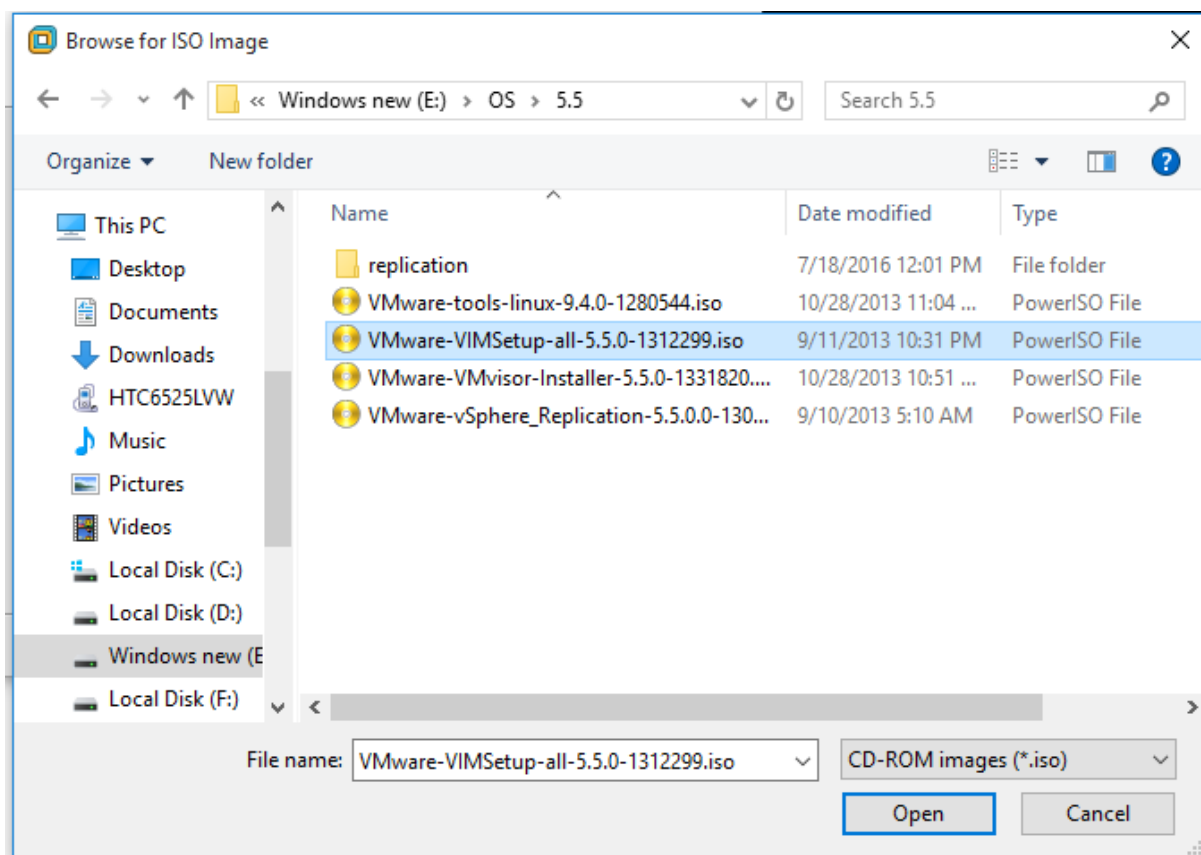
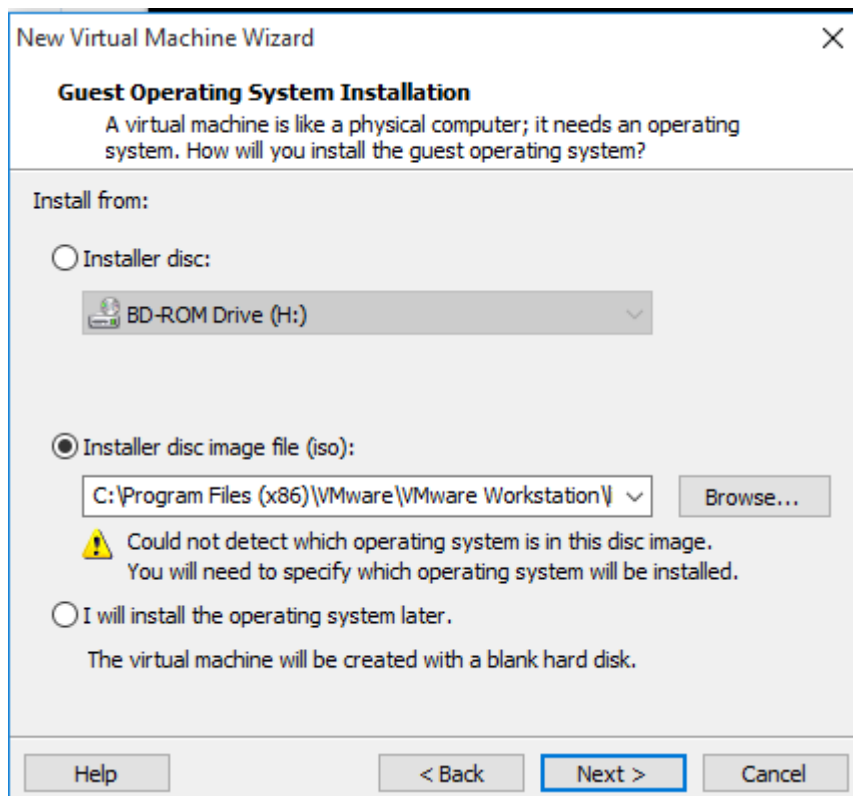


Install ESXi Server

- Download Esxi server in Vmware web site. On this lab we used vmware workstation for install ESXi server but actual concept is ESXi install on top of hardware
- Create virtual machine and select correct ESXi server iso.





New Virtual Machine Wizard

Select a Guest Operating System
Which operating system will be installed on this virtual machine?

Guest operating system

☐ Microsoft Windows
☐ Linux
☐ Novell NetWare
☐ Solaris
☒ VMware ESX
☐ Other

Version

VMware ESXi 5

Help < Back Next > Cancel

New Virtual Machine Wizard

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

Virtual machine name:

VMware ESXi 5

Location:

K:\ESXI

Browse...

The default location can be changed at Edit > Preferences.

< Back Next > Cancel

New Virtual Machine Wizard

Specify Disk Capacity

How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size (GB):

Recommended size for VMware ESXi 5: 40 GB

☒ Store virtual disk as a single file

☐ Split virtual disk into multiple files

Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help < Back Next > Cancel

New Virtual Machine Wizard

Ready to Create Virtual Machine

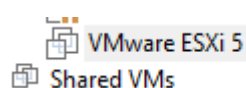
Click Finish to create the virtual machine. Then you can install VMware ESXi 5.

The virtual machine will be created with the following settings:

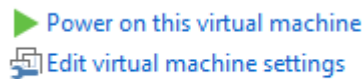
Name:	VMware ESXi 5
Location:	K:\ESXI
Version:	Workstation 12.0
Operating System:	VMware ESXi 5
Hard Disk:	40 GB
Memory:	4096 MB
Network Adapter:	NAT
Other Devices:	2 CPU cores, CD/DVD, USB Controller, Printer

Customize Hardware...

< Back Finish Cancel



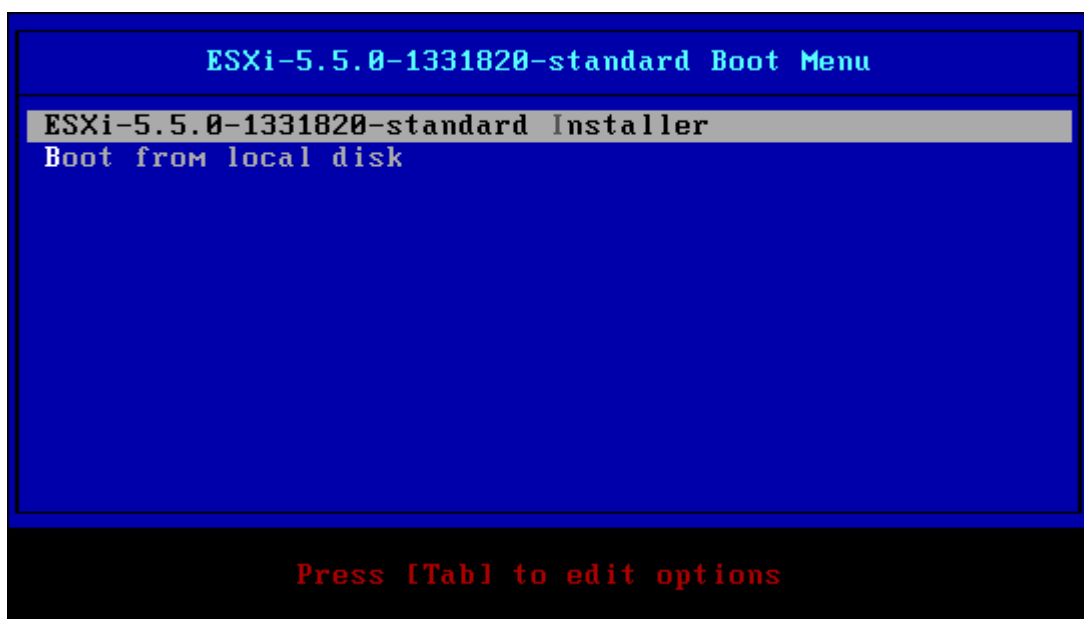
- Power on Virtual machine



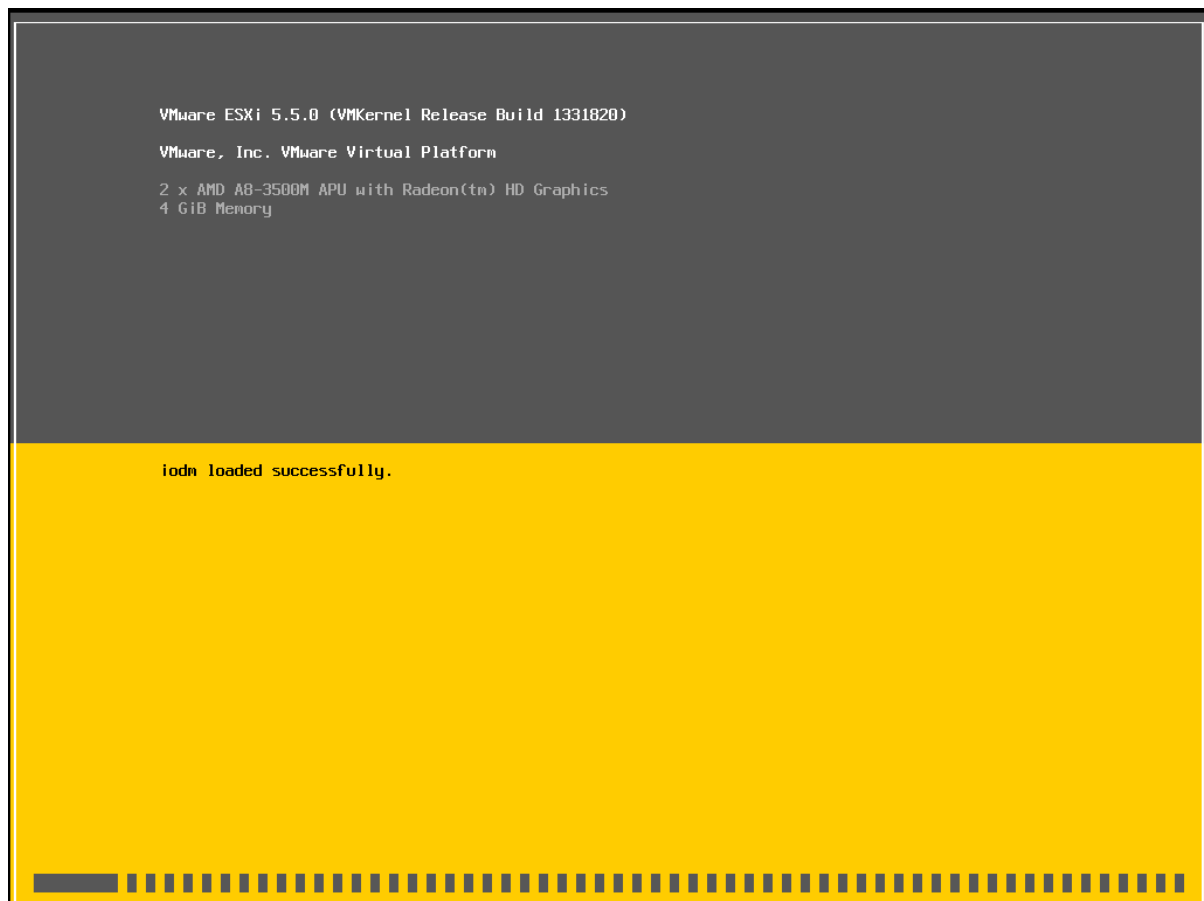
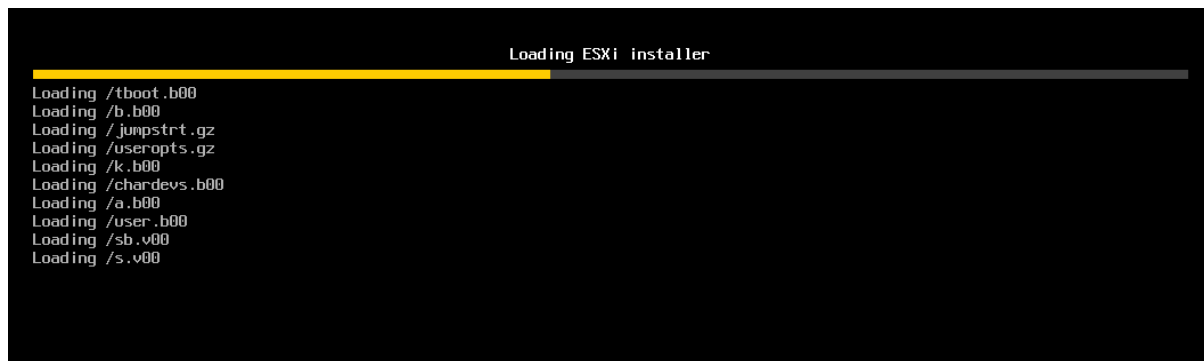
- Now you can see boot menu as shown below select ESXi Installer and press enter

```
Network boot from Intel E1000
Copyright (C) 2003-2014 VMware, Inc.
Copyright (C) 1997-2000 Intel Corporation

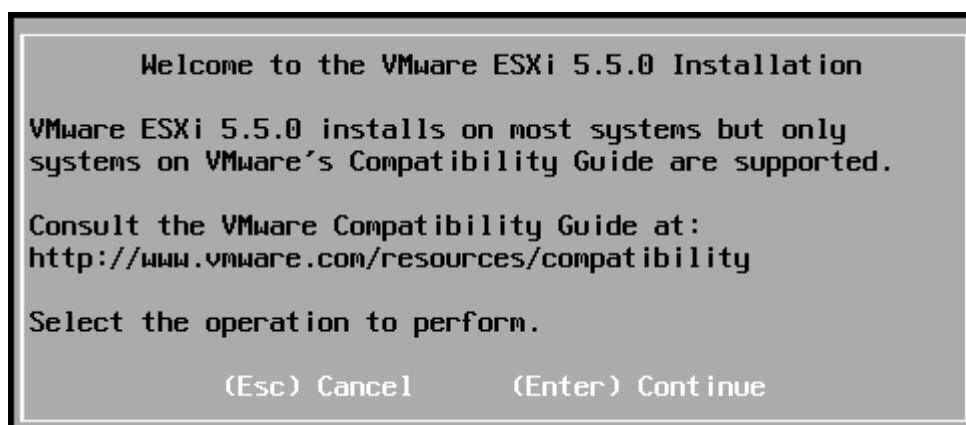
CLIENT MAC ADDR: 00 0C 29 7B DD 00  GUID: 564D6FAB-5D91-B9E1-6AF6-33EA537BDD00
DHCP..Z
```



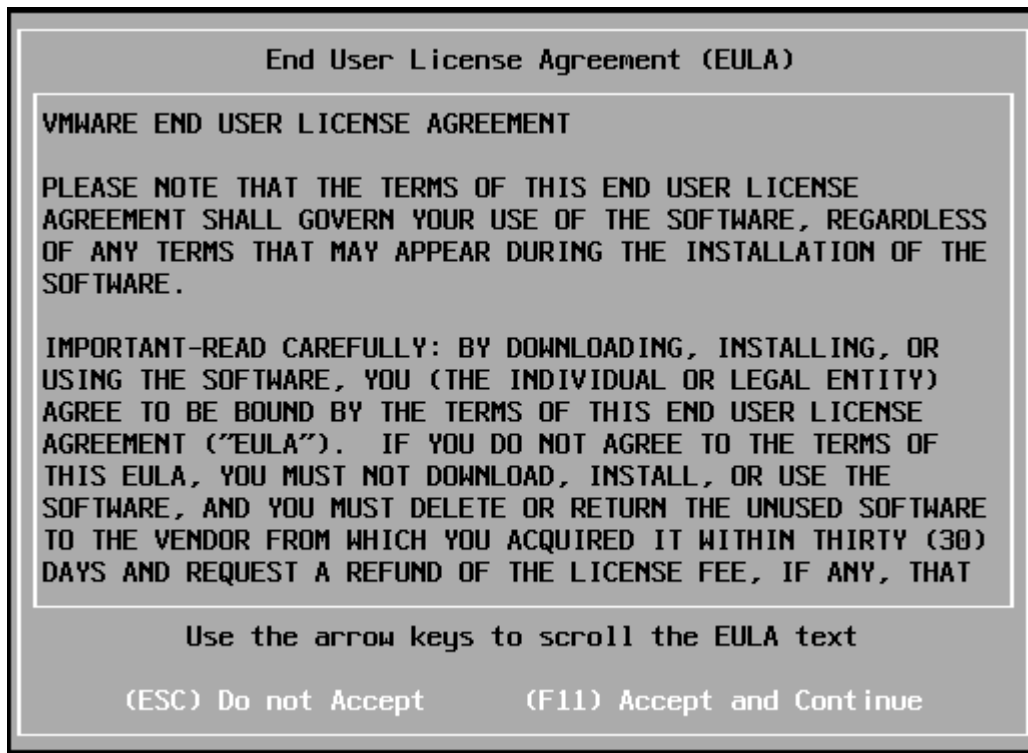
- While the installer is loading all the necessary modules, it will display the server configuration information at the top as shown below



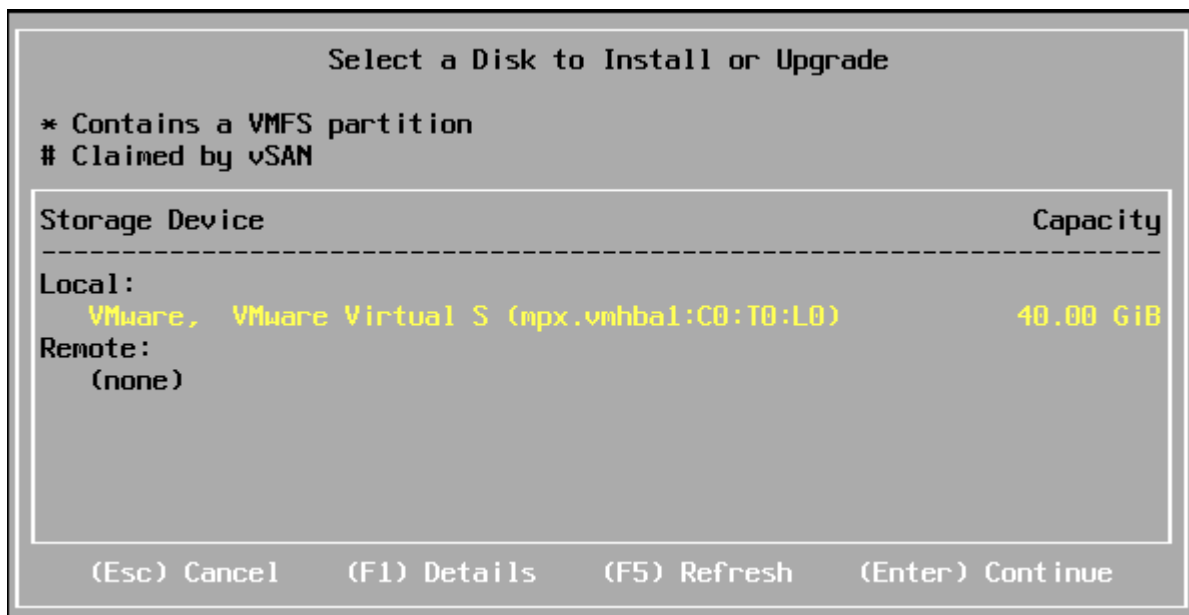
- Since this is a new installation of ESXi, press Enter button to go forward



Read and accept the EULA by pressing F11



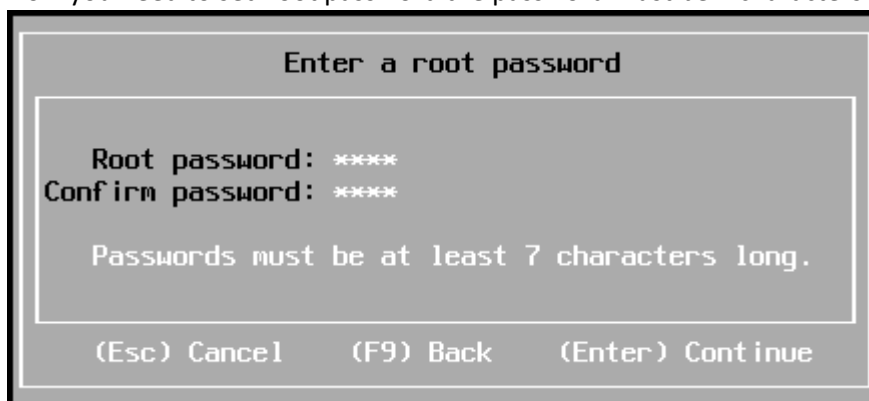
- VMware ESXi 4.0.0 Installer will display all available disk groups. Choose the Disk where you would like to install the ESXi. It is recommended to choose the Disk0.



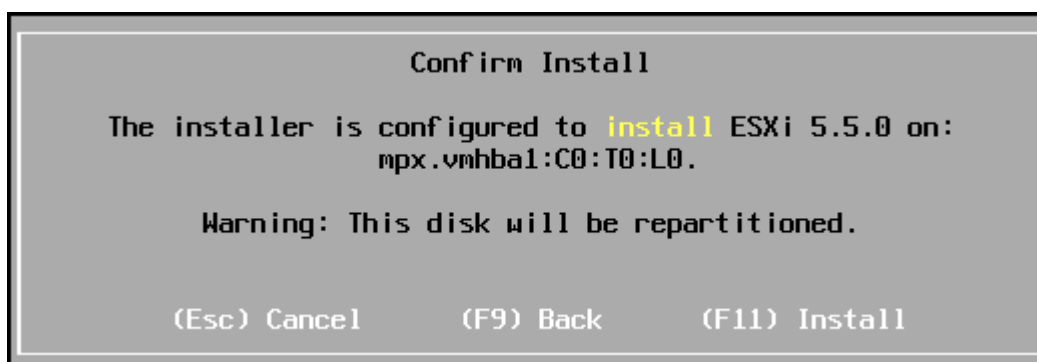
Select US default as keyboard layout and press Enter



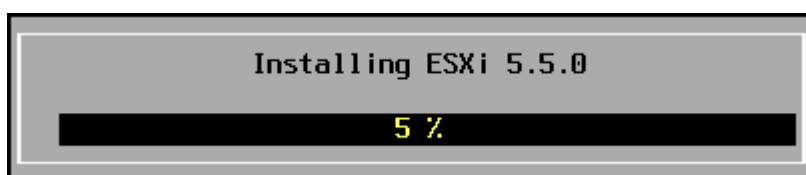
Now you need to set Root password the password must be 7 characters long.



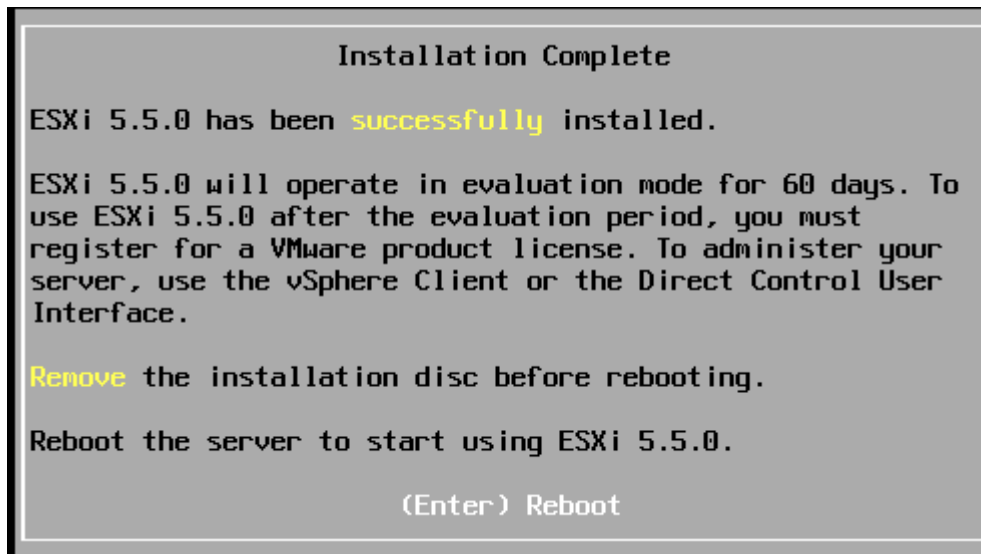
Confirm that you are ready to start the install process



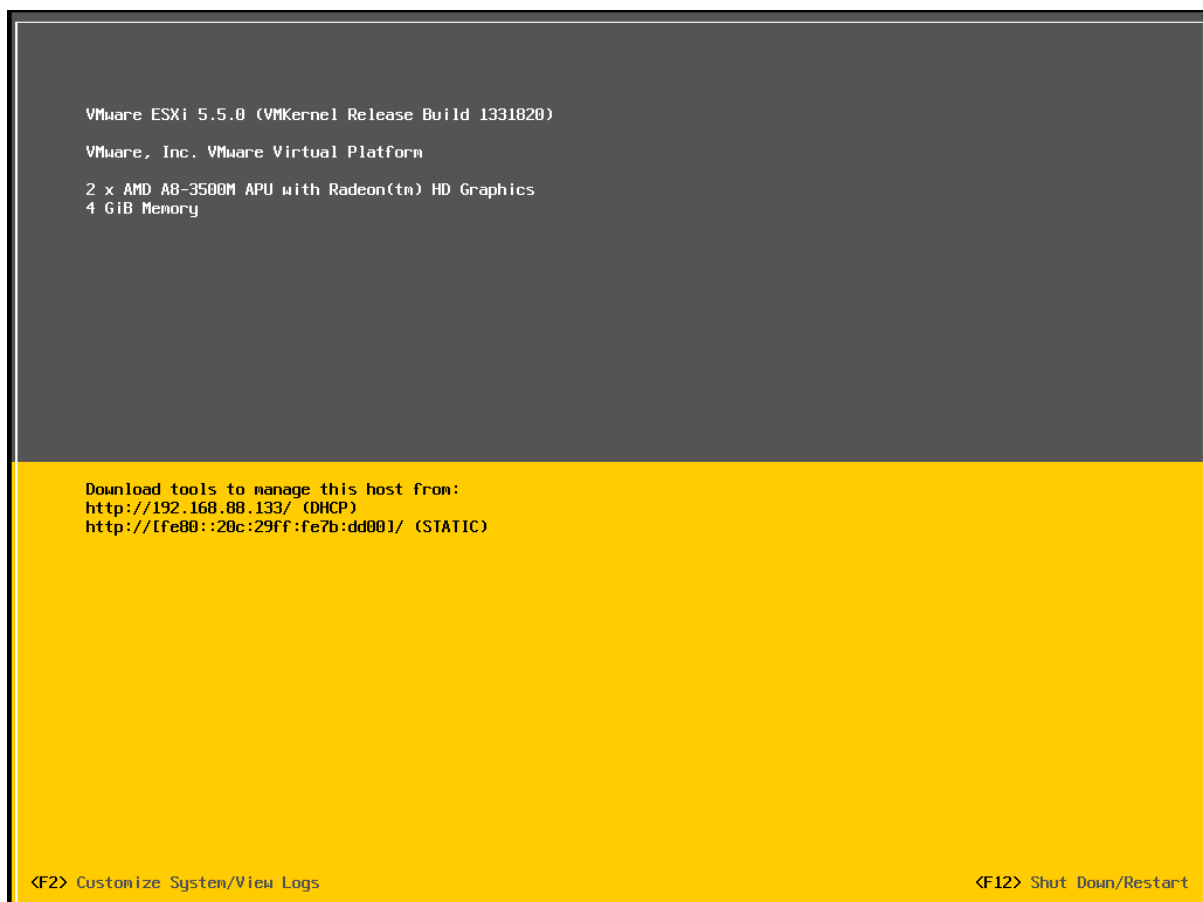
The installation process takes few minutes. While the ESXi is getting installed, it will display a progress bar as shown below.



You will get the following installation completed message that will prompt you to reboot the server.

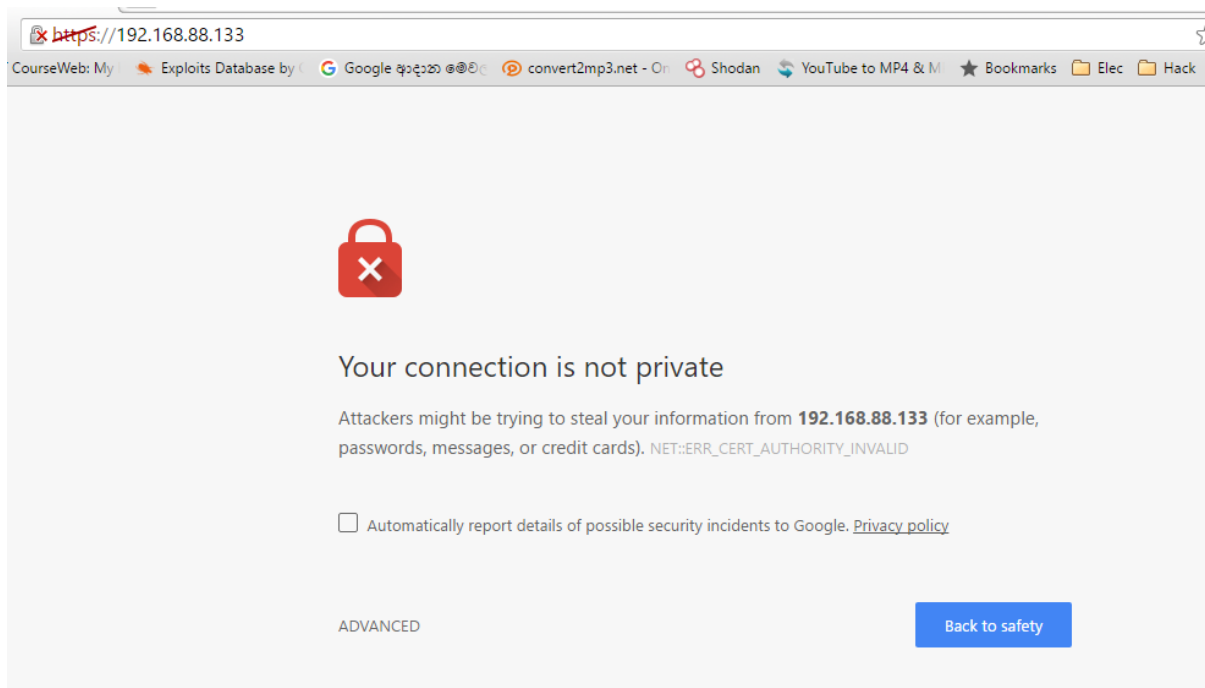


After the ESXi is installed, you'll get the following screen where you can configure the system by pressing F2.



Now you need to install vSphere. Install that we need open browser on local client pc and type ip address of the server

Download tools to manage this host from:
<http://192.168.88.133/> (DHCP)
[http://\[fe80::20c:29ff:fe7b:dd001\]/](http://[fe80::20c:29ff:fe7b:dd001]/) (STATIC)



Click “proceed” .

This server could not prove that it is **192.168.88.133**; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.

[Proceed to 192.168.88.133 \(unsafe\)](#)

Now you will get following page and click on Download vSphere Client you can download client software.

VMware ESXi

Welcome

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 such 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:

For Administrators

vSphere Remote Command Line

The Remote Command Line allows you to use command line tools to manage vSphere from a client machine. These tools can be used in shell scripts to automate day-to-day operations.

- [Download the Virtual Appliance](#)
- [Download the Windows Installer \(exe\)](#)
- [Download the Linux Installer \(tar.gz\)](#)

Web-Based Datastore Browser

Use your web browser to find and download files (for example, virtual machine and virtual disk files).

- [Browse datastores in this host's inventory](#)

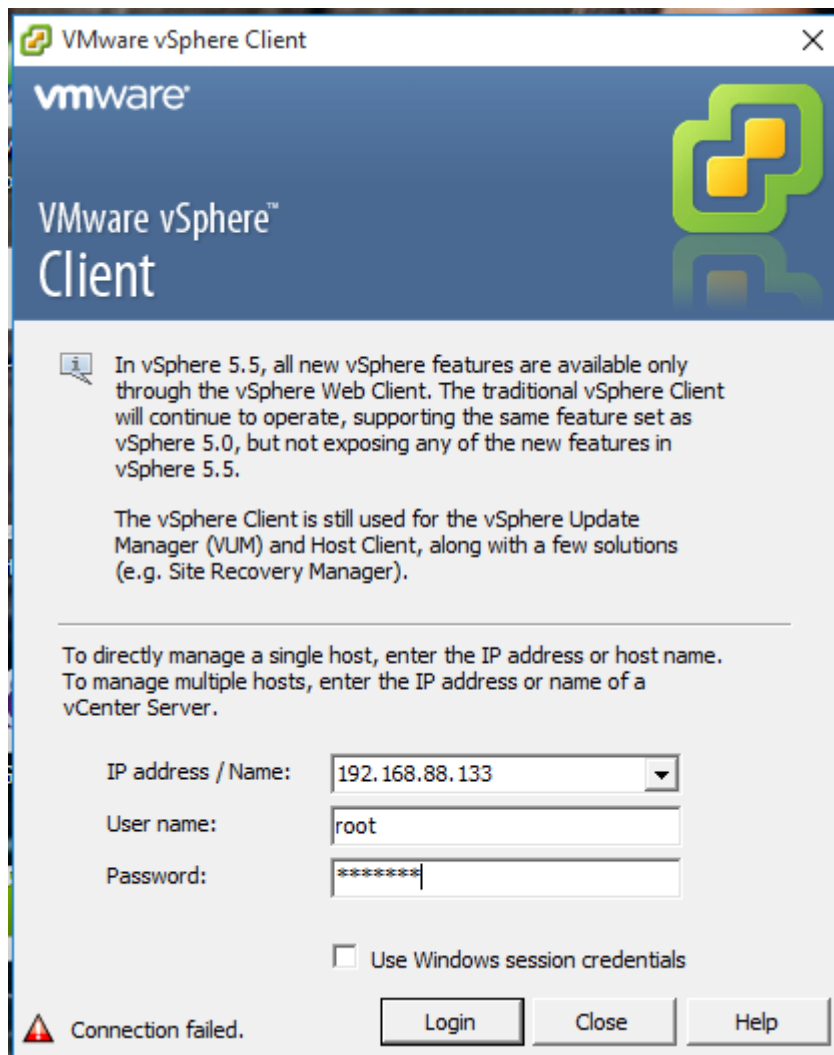
For Developers

vSphere Web Services SDK

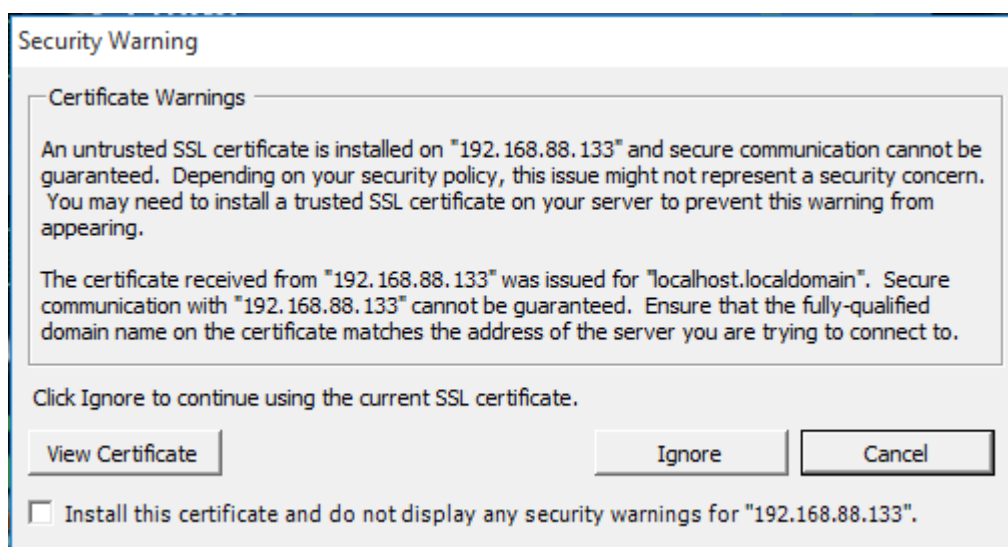
Learn about our latest SDKs, Toolkits, and APIs for managing VMware ESX, ESXi, and VMware vCenter. Get sample code, reference documentation, participate in our Forum Discussions, and view our latest Sessions and Webinars.

- [Learn more about the Web Services SDK](#)
- [Browse objects managed by this host](#)

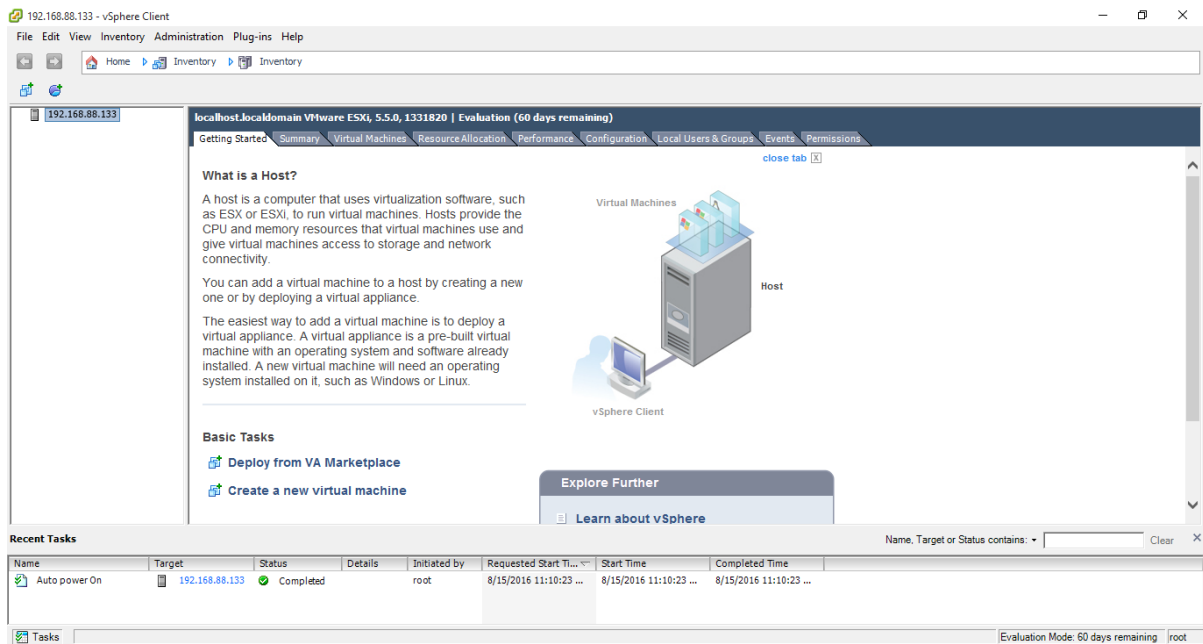
After finished client software installation start vmware Vsphere client and fill the ip server ip address, username and root password.



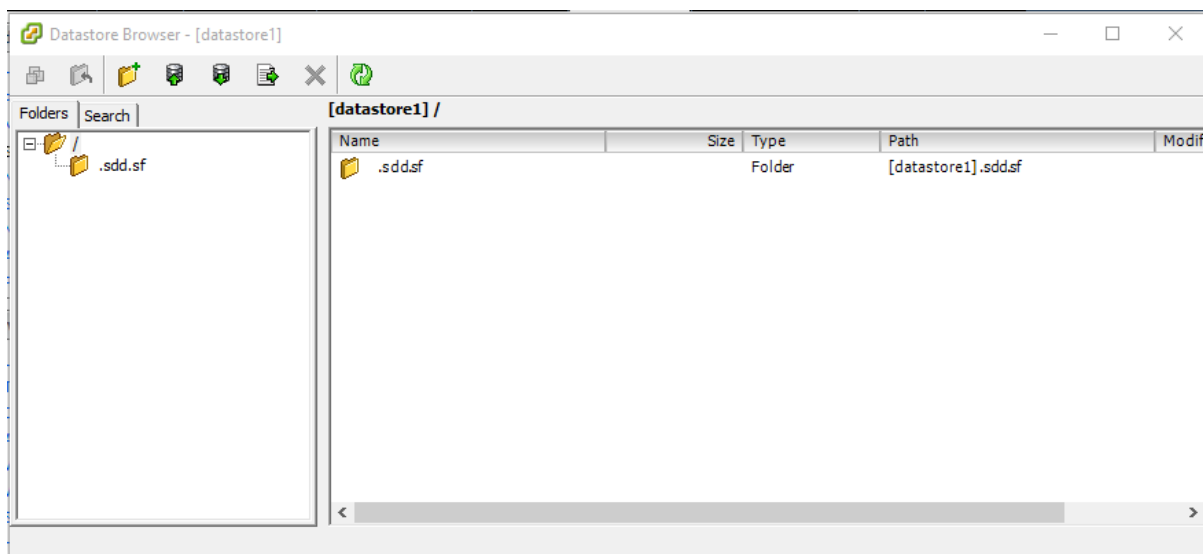
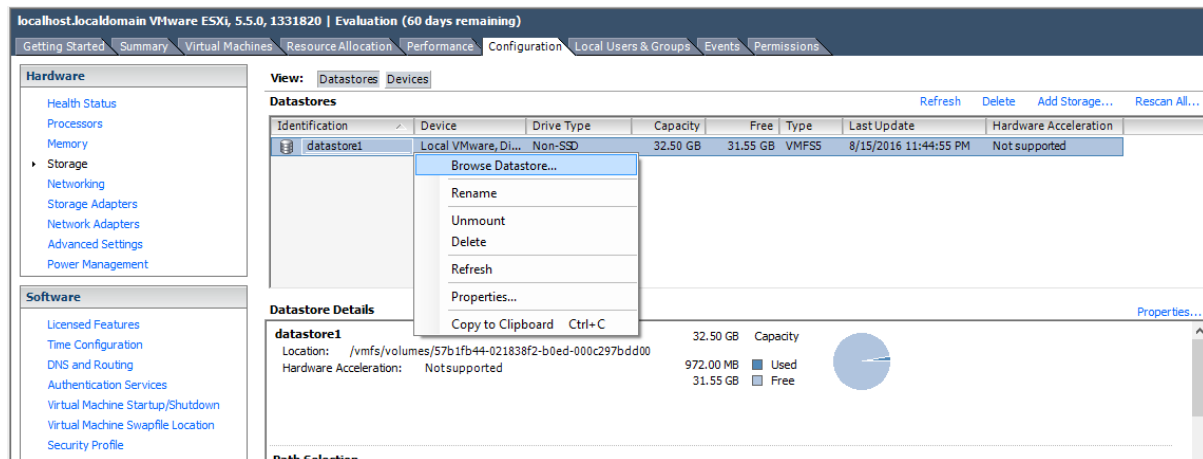
Now you will get security warning ask for certification tick the bellow under the view certificate button and ignore it



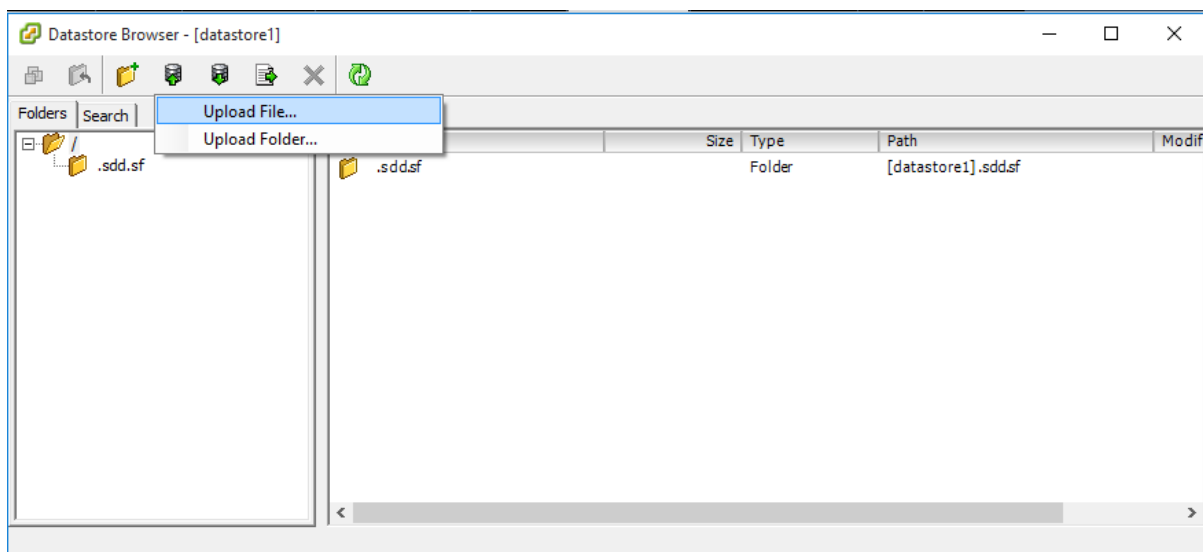
Now you can see vSphere client management console



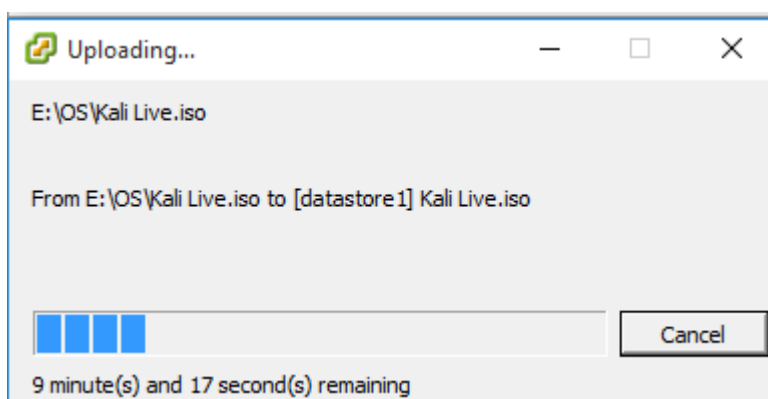
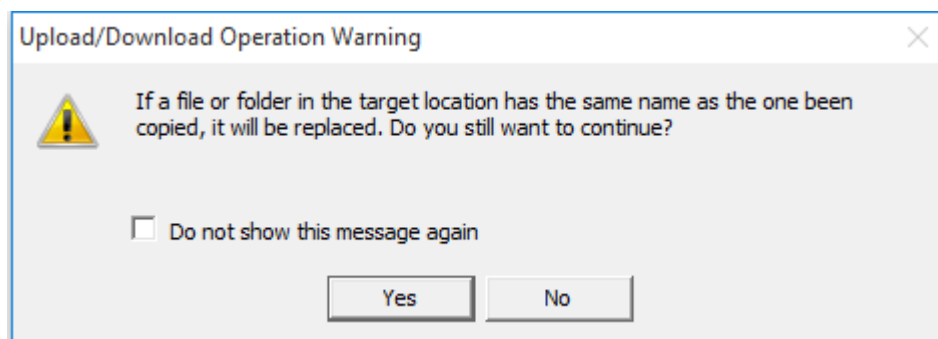
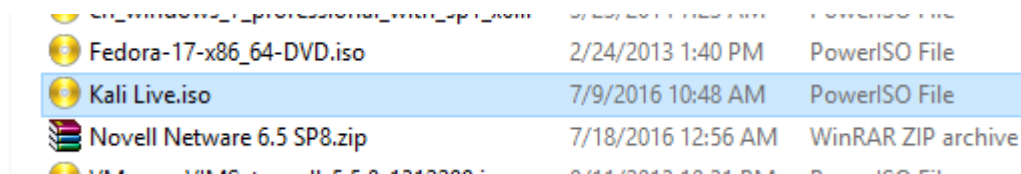
After install ESXi server you need to add bootable OS images to ESXi storage. Follow below steps to add image to EXSi storage.



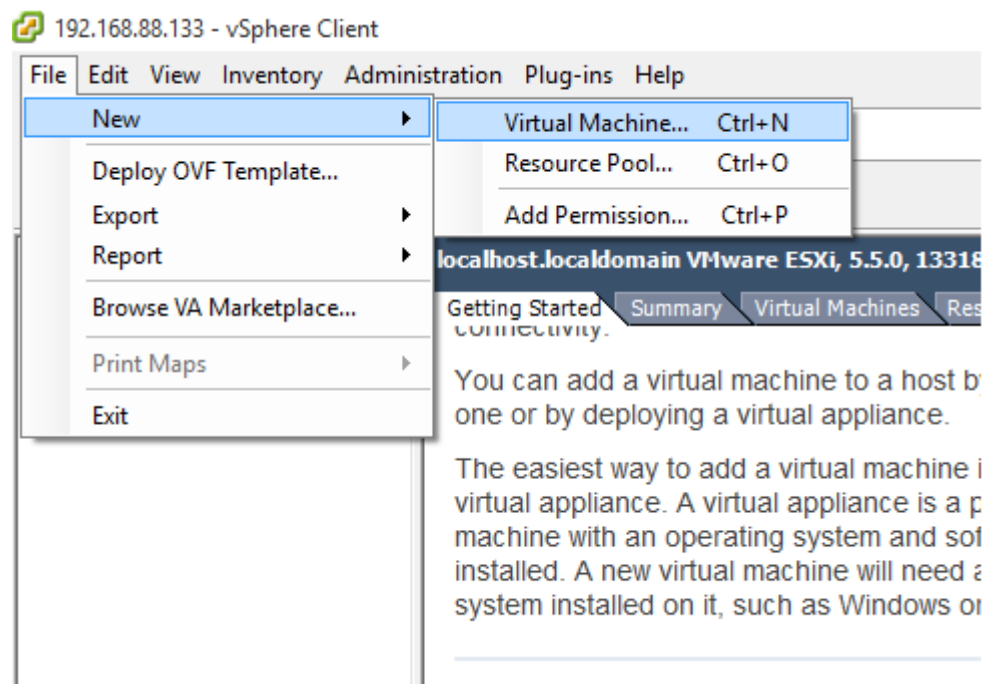
Click upload file



And select OS image.

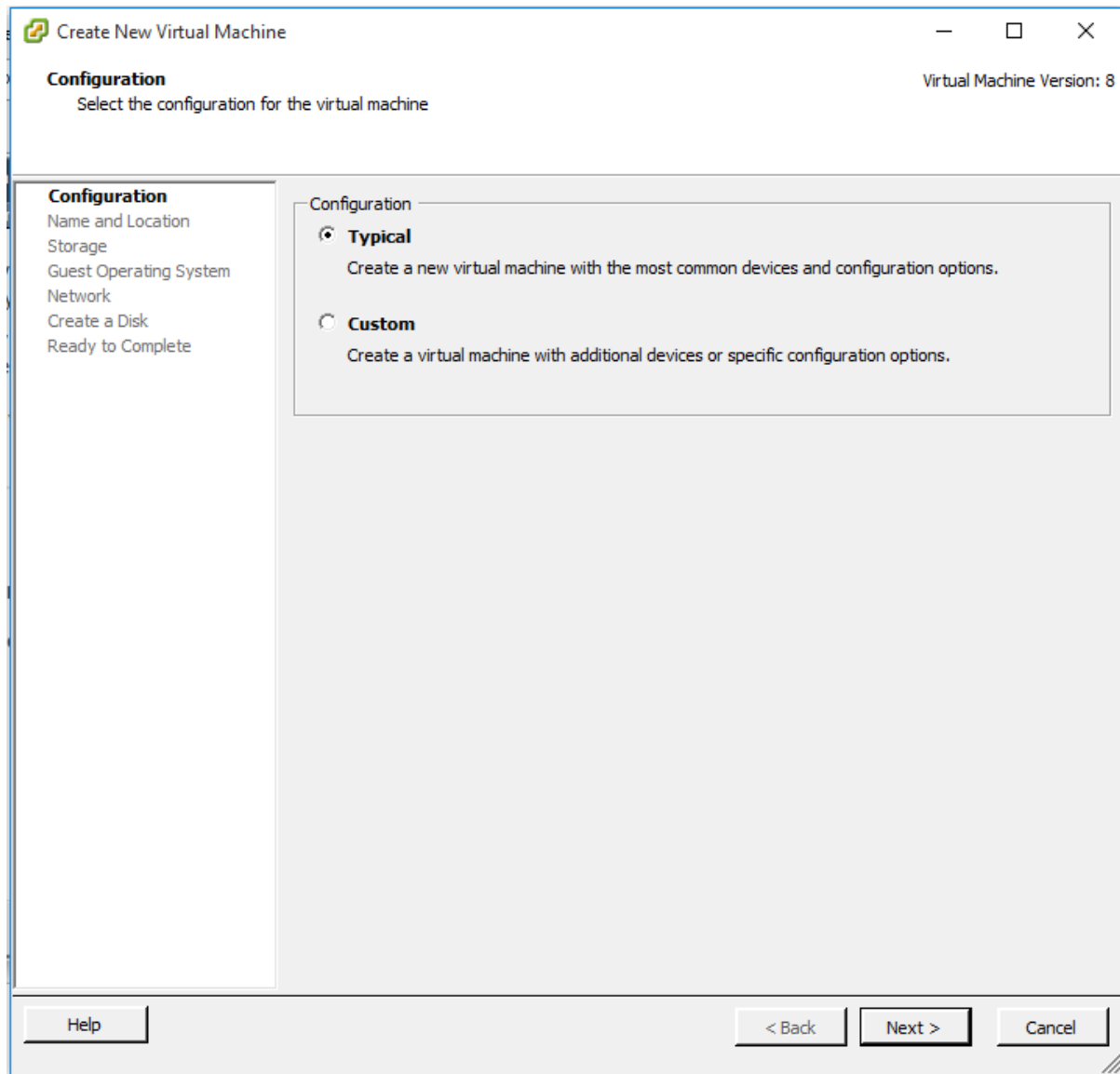


Now we can create virtual machine on ESXi server

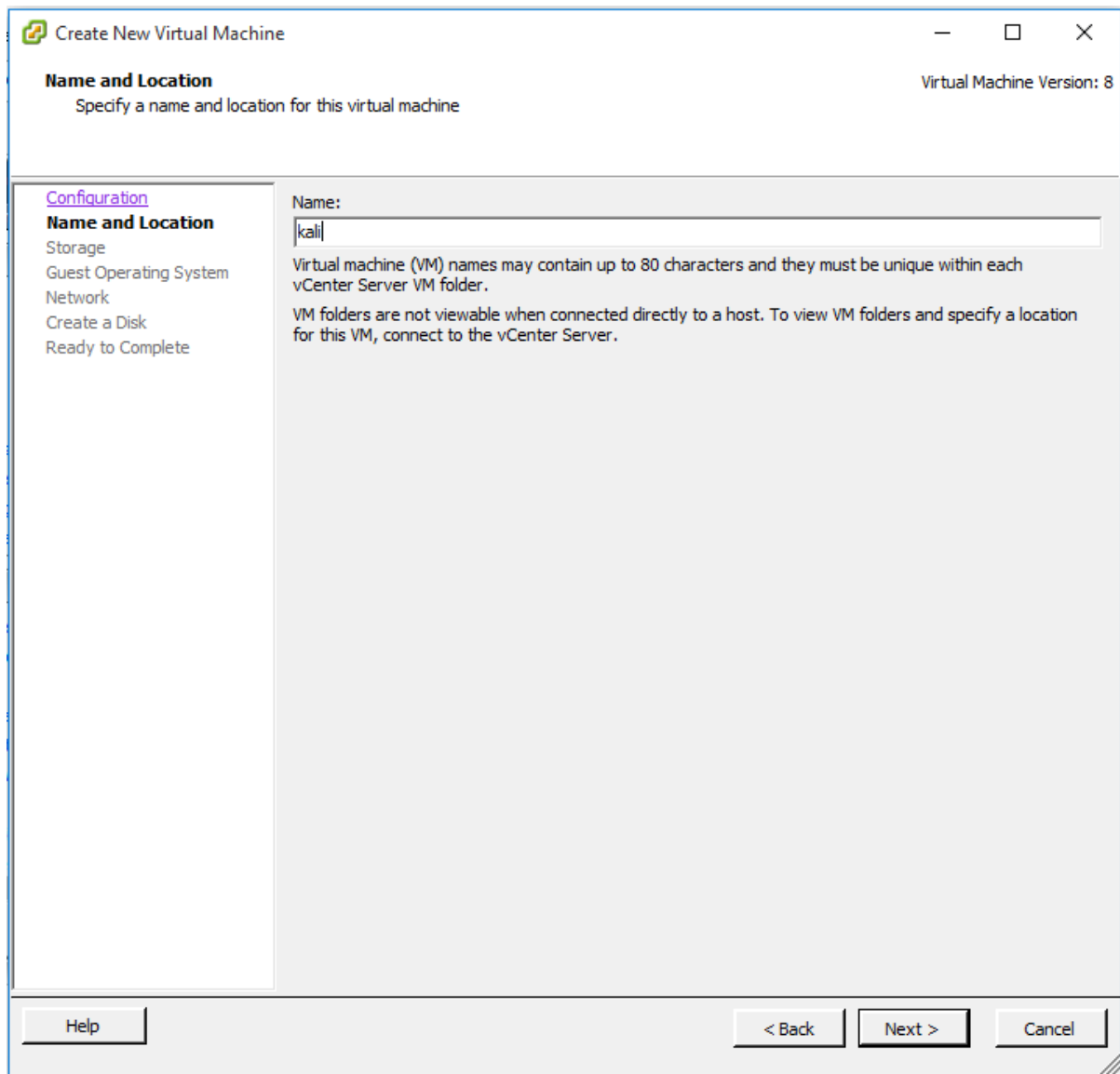


Follow below steps to create virtual machine on ESXi server

Select Typical and click next to go forward



Type the name of your virtual machine



The screenshot shows the 'Create New Virtual Machine' wizard in VMware Workstation. The window title is 'Create New Virtual Machine'. The current step is 'Name and Location', with the instruction 'Specify a name and location for this virtual machine'. The 'Virtual Machine Version' is set to 8. On the left, a 'Configuration' sidebar lists steps: 'Name and Location' (selected), 'Storage', 'Guest Operating System', 'Network', 'Create a Disk', and 'Ready to Complete'. The main area has a 'Name:' label and a text box containing 'kali'. Below the text box, there is explanatory text: 'Virtual machine (VM) names may contain up to 80 characters and they must be unique within each vCenter Server VM folder.' and 'VM folders are not viewable when connected directly to a host. To view VM folders and specify a location for this VM, connect to the vCenter Server.' At the bottom, there are buttons for 'Help', '< Back', 'Next >', and 'Cancel'.

Create New Virtual Machine

Name and Location
Specify a name and location for this virtual machine

Virtual Machine Version: 8

Configuration

Name and Location


Storage
Guest Operating System
Network
Create a Disk
Ready to Complete

Name:
kali

Virtual machine (VM) names may contain up to 80 characters and they must be unique within each vCenter Server VM folder.

VM folders are not viewable when connected directly to a host. To view VM folders and specify a location for this VM, connect to the vCenter Server.

Help < Back Next > Cancel


 Create New Virtual Machine

Storage
Select a destination storage for the virtual machine files

Virtual Machine Version: 8

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

Select a destination storage for the virtual machine files:

Name	Drive Type	Capacity	Provisioned	Free	Type	Thin Pro
 datastore1	Non-SSD	32.50 GB	972.00 MB	31.55 GB	VMFS5	Supporte

< >

☐ Disable Storage DRS for this virtual machine

Select a datastore:

Name	Drive Type	Capacity	Provisioned	Free	Type	Thin Provi
------	------------	----------	-------------	------	------	------------

< >

Help

< Back

Next >

Cancel

The screenshot shows the 'Create New Virtual Machine' wizard in a window titled 'Create New Virtual Machine'. The window has standard Windows window controls (minimize, maximize, close) in the top right corner. The main title bar is green with a white icon. The wizard is currently on the 'Guest Operating System' step, which is highlighted in the left-hand navigation pane. The navigation pane also includes links for 'Configuration', 'Name and Location', 'Storage', 'Network', 'Create a Disk', and 'Ready to Complete'. The main area of the wizard is titled 'Guest Operating System' and contains the instruction 'Specify the guest operating system to use with this virtual machine'. Below this, there are three radio button options for the 'Guest Operating System': 'Windows', 'Linux' (which is selected), and 'Other'. Below these options is a 'Version:' label and a dropdown menu currently showing 'Ubuntu Linux (64-bit)'. A paragraph of text explains that identifying the guest operating system allows the wizard to provide appropriate defaults for installation. At the bottom of the window, there are three buttons: 'Help', '< Back', and 'Next >', along with a 'Cancel' button.

Create New Virtual Machine

Guest Operating System
Specify the guest operating system to use with this virtual machine

Virtual Machine Version: 8

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

Guest Operating System:

☐ Windows
☒ Linux
☐ Other

Version:
Ubuntu Linux (64-bit)

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Help < Back Next > Cancel

Create New Virtual Machine

Network

Which network connections will be used by the virtual machine?

Configuration

Name and Location

Storage

Guest Operating System

Network

Create a Disk

Ready to Complete

Virtual Machine Version: 8

Create Network Connections

How many NICs do you want to connect?

2

	Network	Adapter	Connect at Power On
NIC 1:	<div>VM Network</div>	<div>VMXNET 3</div>	<input checked="" type="checkbox"/>
NIC 2:	<div>VM Network</div>	<div>VMXNET 3</div>	<input checked="" type="checkbox"/>

If supported by this virtual machine version, more than 4 NICs can be added after the virtual machine is created, via its Edit Settings dialog.

Adapter choice can affect both networking performance and migration compatibility. Consult the [VMware KnowledgeBase](#) for more information on choosing among the network adapters supported for various guest operating systems and hosts.

Help

< Back

Next >

Cancel

The screenshot shows the 'Create New Virtual Machine' wizard in a window titled 'Create New Virtual Machine'. The current step is 'Create a Disk', with the subtitle 'Specify the virtual disk size and provisioning policy'. The 'Virtual Machine Version' is 8. On the left, a navigation pane lists 'Configuration', 'Name and Location', 'Storage', 'Guest Operating System', and 'Network', with 'Create a Disk' highlighted and 'Ready to Complete' below it. The main area contains the following fields and options:

- Datastore:** A text box containing 'datastore 1'.
- Available space (GB):** A text box containing '31.6'.
- Virtual disk size:** A spinner box set to '16' and a dropdown menu set to 'GB'.
- Provisioning Policy:** Three radio button options:
 - ☒ Thick Provision Lazy Zeroed
 - ☐ Thick Provision Eager Zeroed
 - ☐ Thin Provision

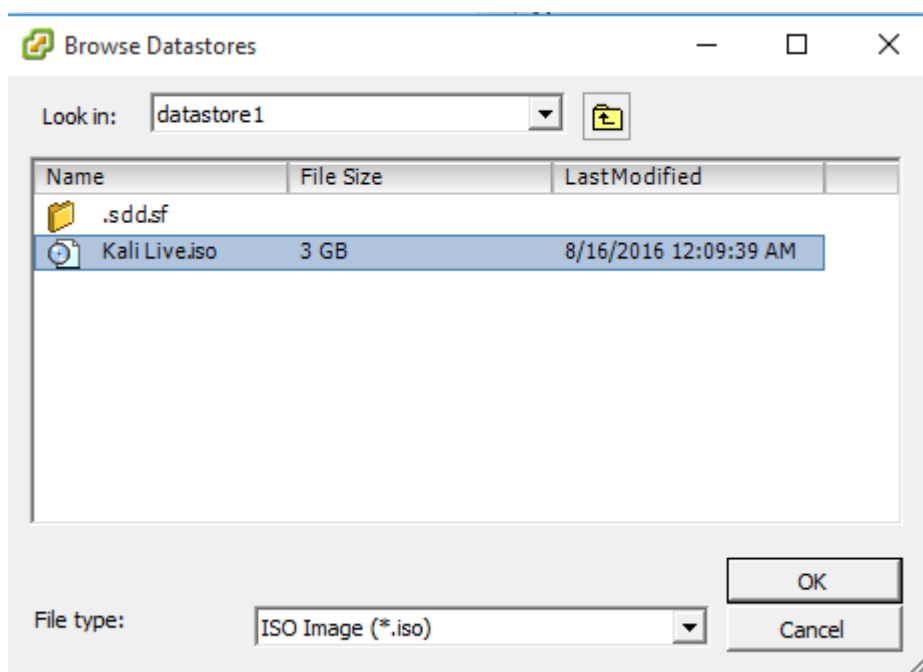
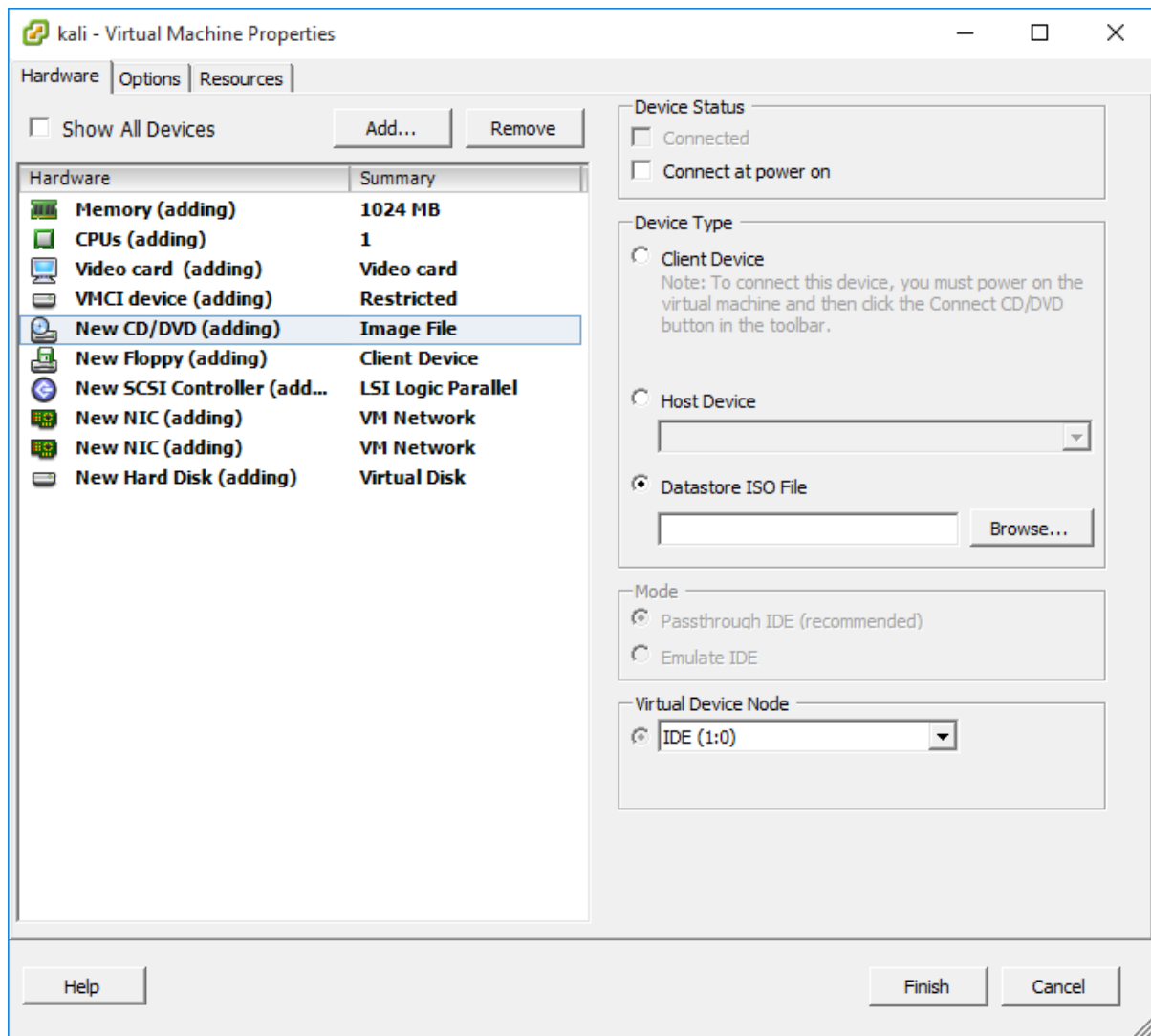
At the bottom, there are three buttons: 'Help', '< Back', and 'Next >', followed by a 'Cancel' button.

The screenshot shows the 'Create New Virtual Machine' wizard in VMware Workstation. The window title is 'Create New Virtual Machine'. In the top right corner, there are window control buttons (minimize, maximize, close) and the text 'Virtual Machine Version: 8'. The main area is titled 'Ready to Complete' with the instruction 'Click Finish to start a task that will create the new virtual machine'. On the left, a navigation pane lists steps: 'Configuration' (selected), 'Name and Location', 'Storage', 'Guest Operating System', 'Network', and 'Create a Disk'. Below these is a 'Ready to Complete' button. The main pane shows 'Settings for the new virtual machine:' with the following details:

Name:	kali
Host/Cluster:	localhost.localdomain
Datastore:	datastore1
Guest OS:	Ubuntu Linux (64-bit)
NICs:	2
NIC 1 Network:	VM Network
NIC 1 Type:	VMXNET 3
NIC 2 Network:	VM Network
NIC 2 Type:	VMXNET 3
Disk provisioning:	Thick Provision Lazy Zeroed
Virtual Disk Size:	16 GB

Below the settings table, there is a checkbox labeled 'Edit the virtual machine settings before completion' which is checked. Below this is a warning icon and text: '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.' At the bottom, there are three buttons: 'Help', '< Back', and 'Continue', followed by a 'Cancel' button.

Tick the “Edit the virtual machine setting before completion” and click continue



Then finish the steps and just power on machine

