Experiment No: 6

AIM:Access ESXI Server from another VM and create multiple OS on top of ESXI 6.5 server.

1. Installation of ESXi Server on Virtual Machine
2. Accessing ESXi Serverfrom client PC
3. Installation ofOS on top of ESXi 6.5 server

REQUIREMENTS:

- VM Ware Workstation
- ESXI Server setup
- Windows 7 installer
- Windows 10 installer

SYSTEM CONFIGURATION:

- Windows Operating System
- RAM 8GB
- Storage Capacity 1TB

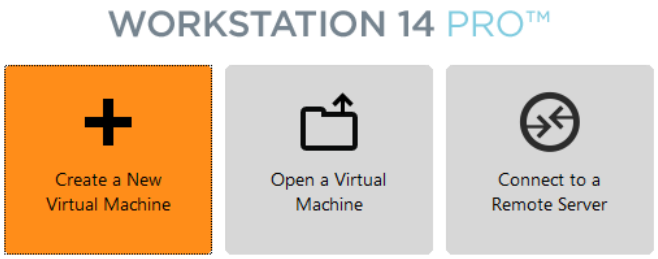
THEORY:VMware ESXi Server is computer virtualization software developed by VMware. The ESXi Server is an advanced, smaller-footprint version of the VMware ESX Server, VMware's enterprise-level computer virtualization software product. Implemented within the VMware Infrastructure, ESXi can be used to facilitate centralized management for enterprise desktops and data center applications. They run directly on server hardware and do not require the installation of an additional underlying operating system. This virtualization software creates and runs its own kernel, which is run after a Linux kernel bootstraps the hardware. The resulting service is a microkernel, which has three interfaces:

- Hardware
- Guest system
- Console operating system (service console).

PROCEDURE:

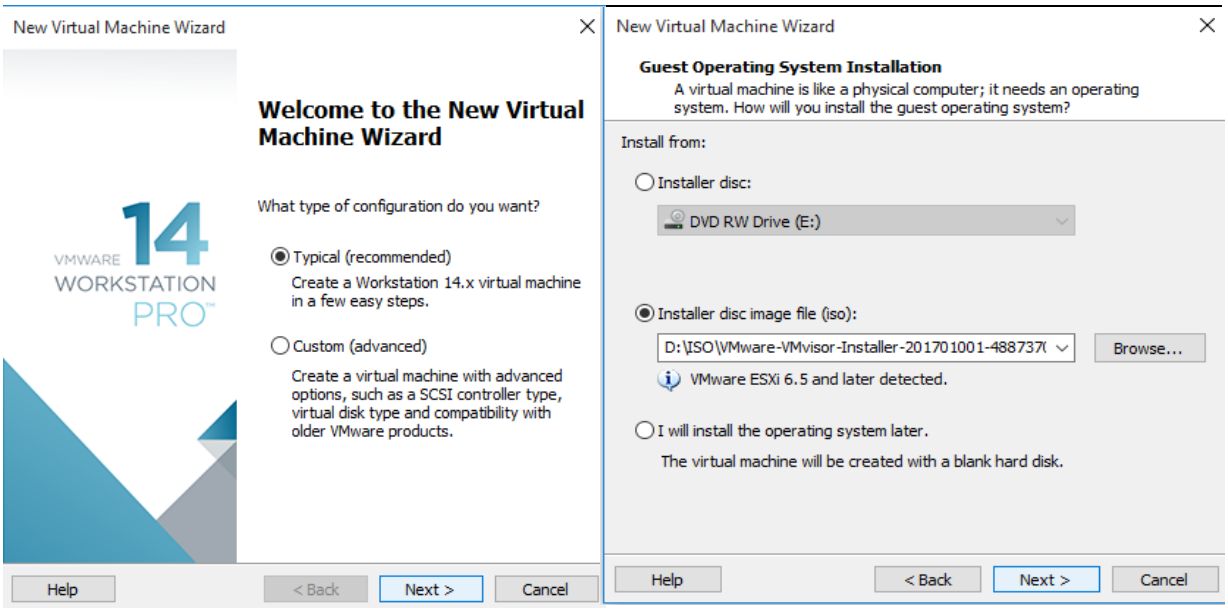
1. Installation of ESXi Server on Virtual Machine–

Step 1: Click on the Create a new virtual machine tab to install ESXi Server on the VMware.



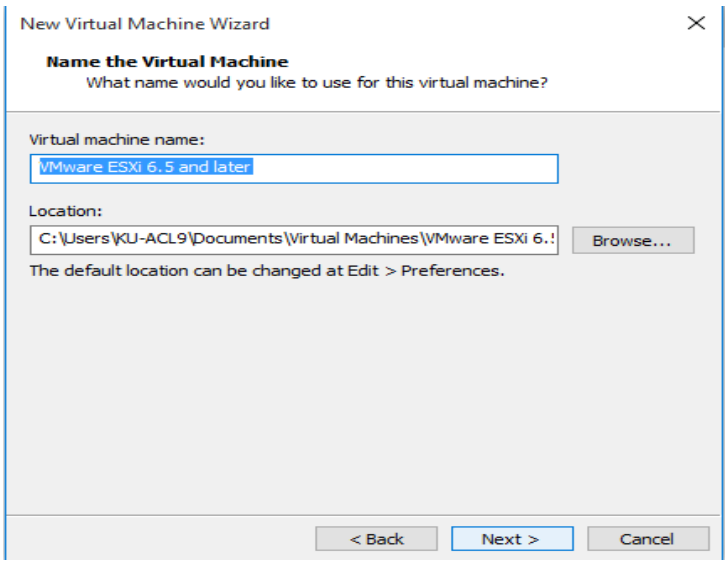
Step 2: (a) Selecting a virtual machine configuration – When you start the New Virtual Machine wizard, the wizard prompts you to select a typical or customconfiguration.

(b) A Guest Operating System Installation window will be open. Select the installer disc image file option to load any operating system from the ISO folder.

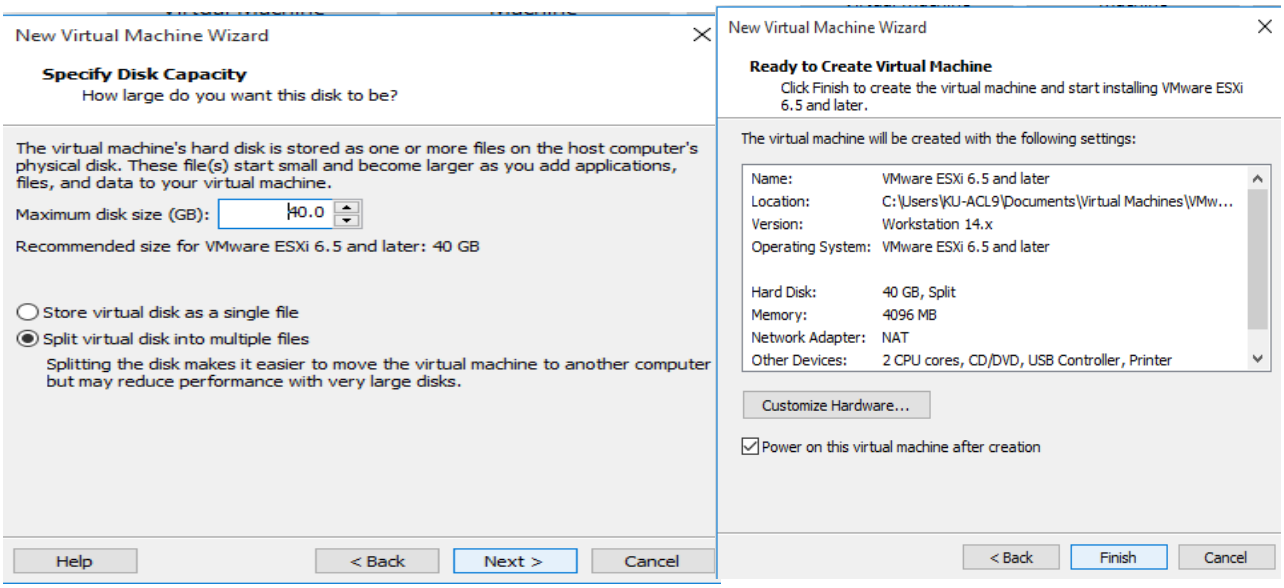


Step 3: Specifying the Virtual Machine Name and File Location –

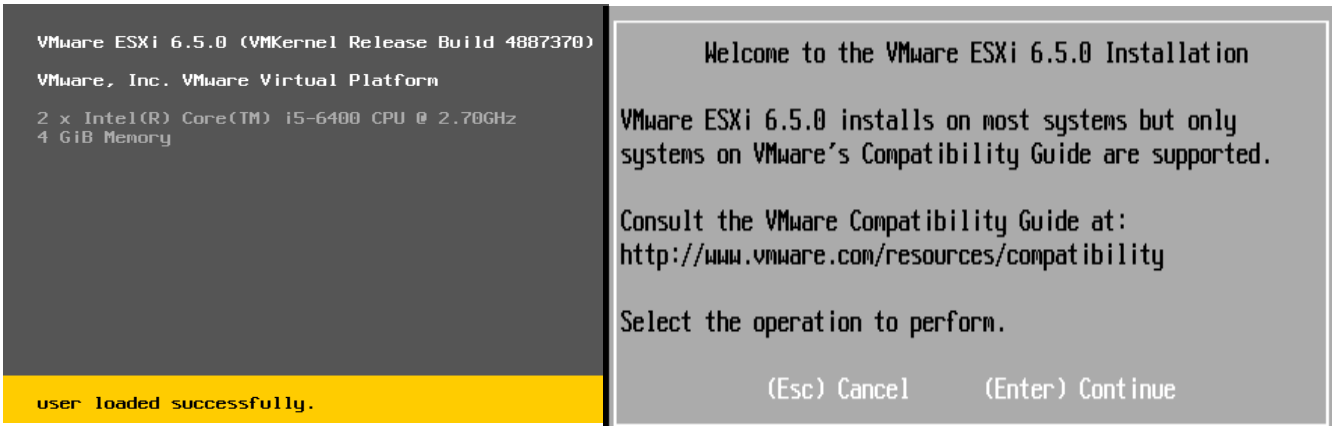
- The New Virtual Machine wizard prompts you for a virtual machine name and a directory for the virtual machine files.
- For standard virtual machines, the default directory for virtual machine files is located in the virtual machine directory. For best performance, do not place the virtual machines directory on a network drive.
- Click on the next button to process further.



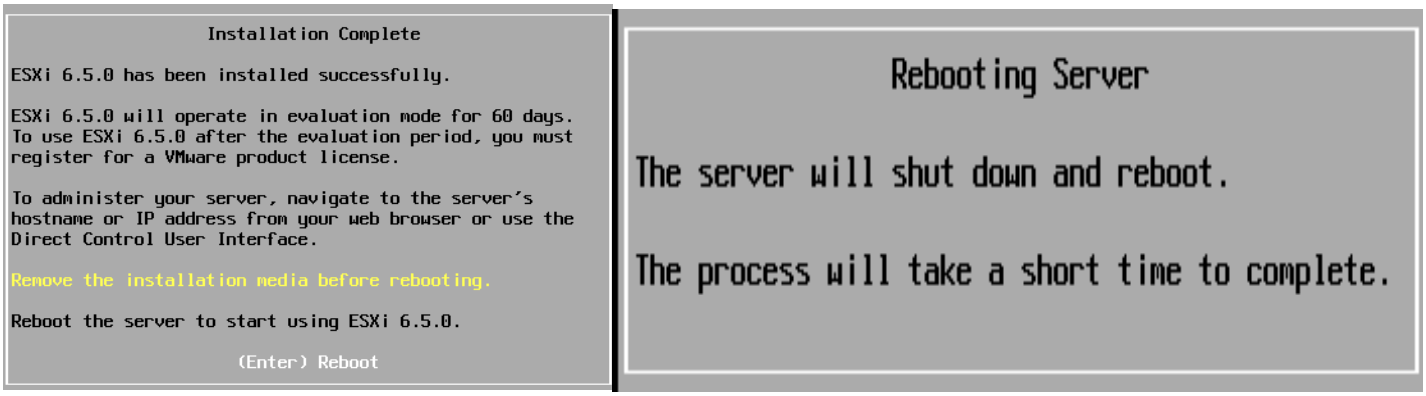
Step 4: Specifying Disk Capacity for a Virtual Machine.After that click finish to create the ESXi Server.



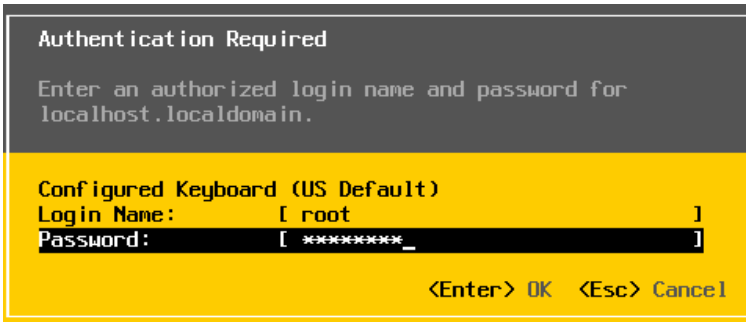
Step 5: ESXi Server installation process continues. After installation press enter to continue.



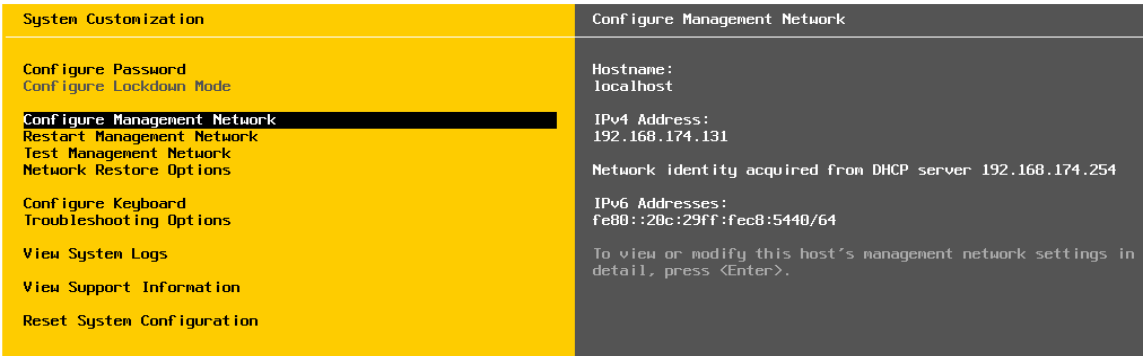
Step 6: Press enter to reboot. After that the server will shut down and reboot will start which will take some time.



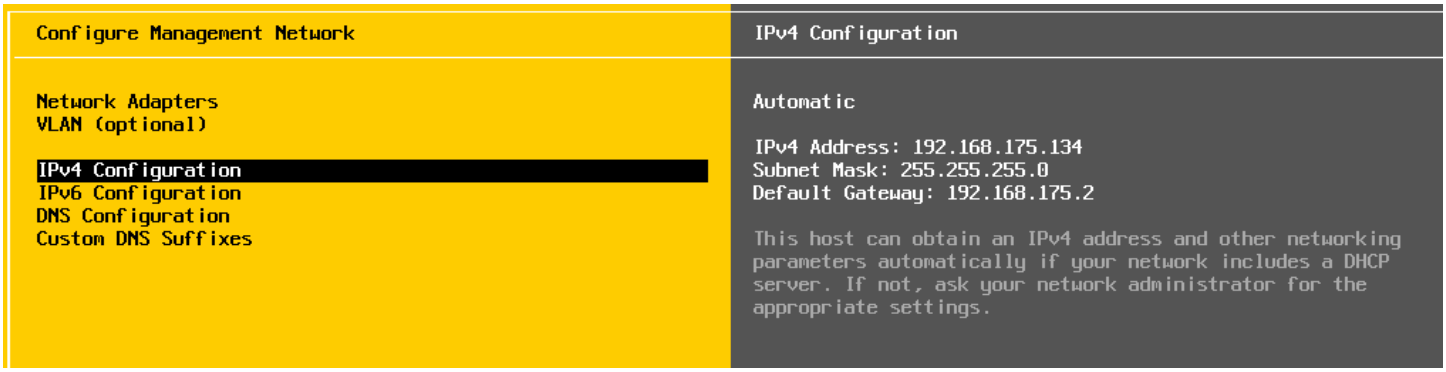
Step 7: Press F2 to go to customize system. Before you proceed to customize system you need to enter an authorized login name and password for localhost.localdomain. After providing the name and password press enter to save and proceed to customize system.



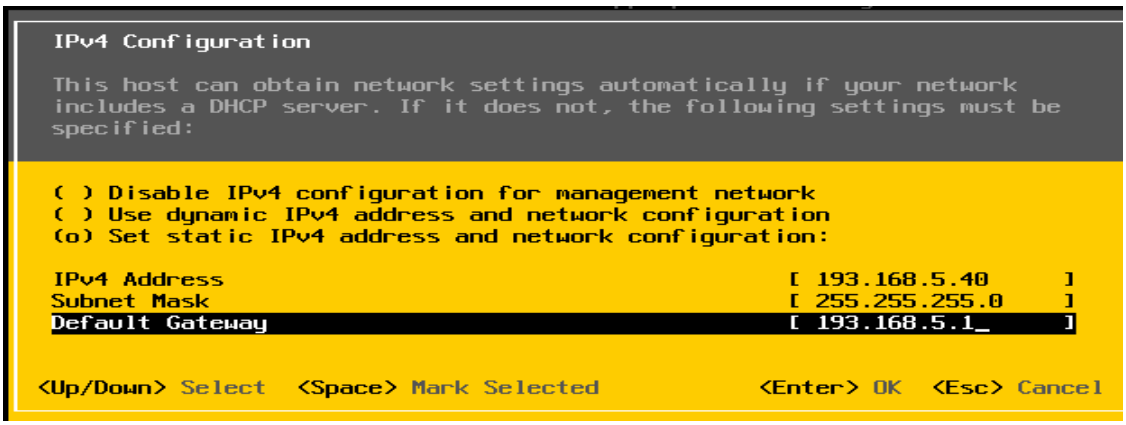
Step 8: In the system customization go to the Configure Management Network section and press enter, which will let you view or modify the host's management network setting.



Step 9: In the Configure Management Network go to the IPv4 configuration by pressing enter to configure the IPv4 address, subnet mask and default gateway.

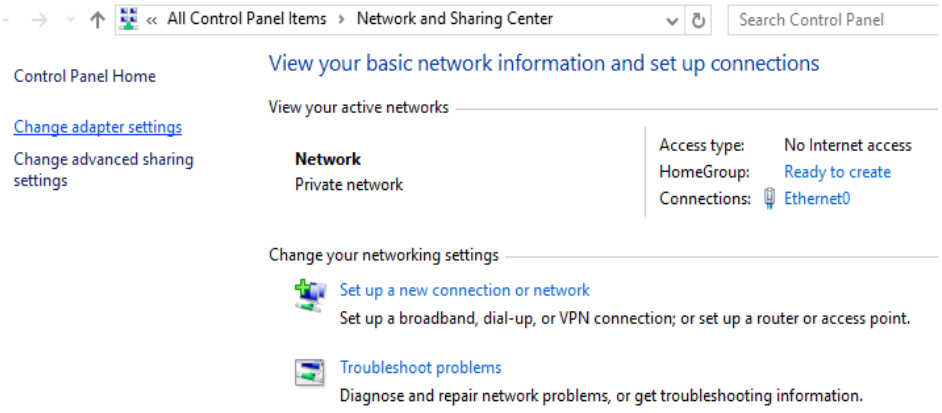


Step 10: Provide the IPv4 address, subnet mask and default gateway. Save the setting by pressing esc and close the window.

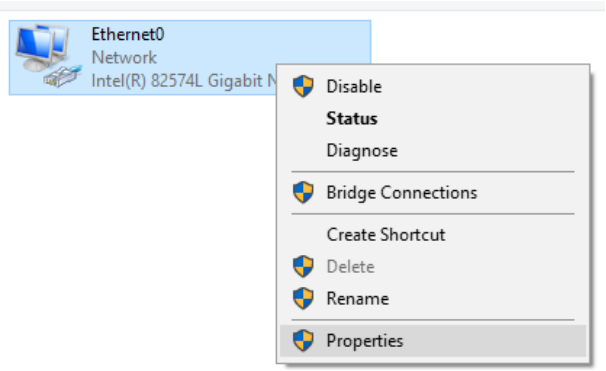


2. Accessing ESXi Server from client PC –

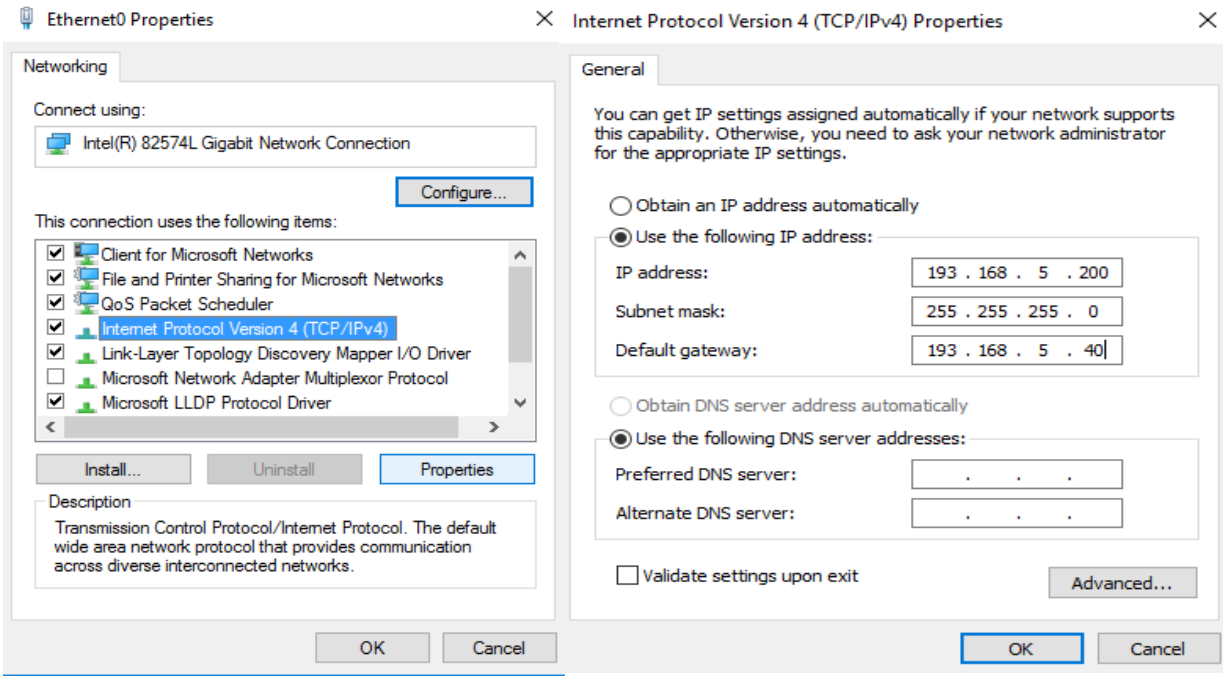
Step 1: In the client PC open the Network and Sharing Center and go to Change adapter settings.



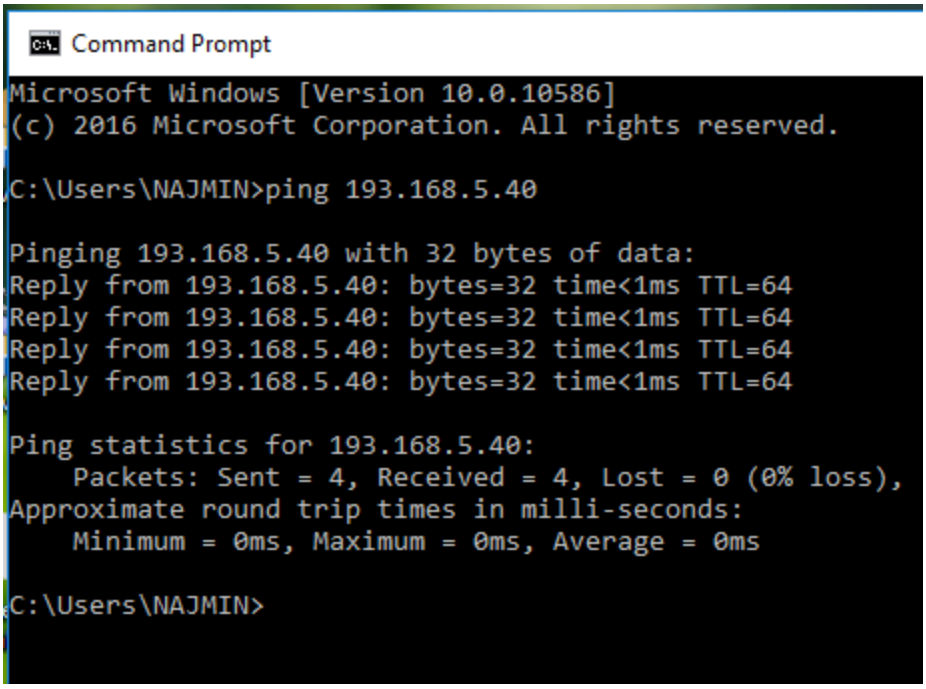
Step 2: Right click on the Ethernet0 and then go to properties.



Step 3: In the Ethernet0 properties window go to Inter Protocol Version 4 (TCP/IPv4) and click on the properties option to configure the IP. Now provide the client machine IPv4 address, subnet mask and in the default gateway provide the ESXi Server IPv4 address. Click ok to save the setting and exit.



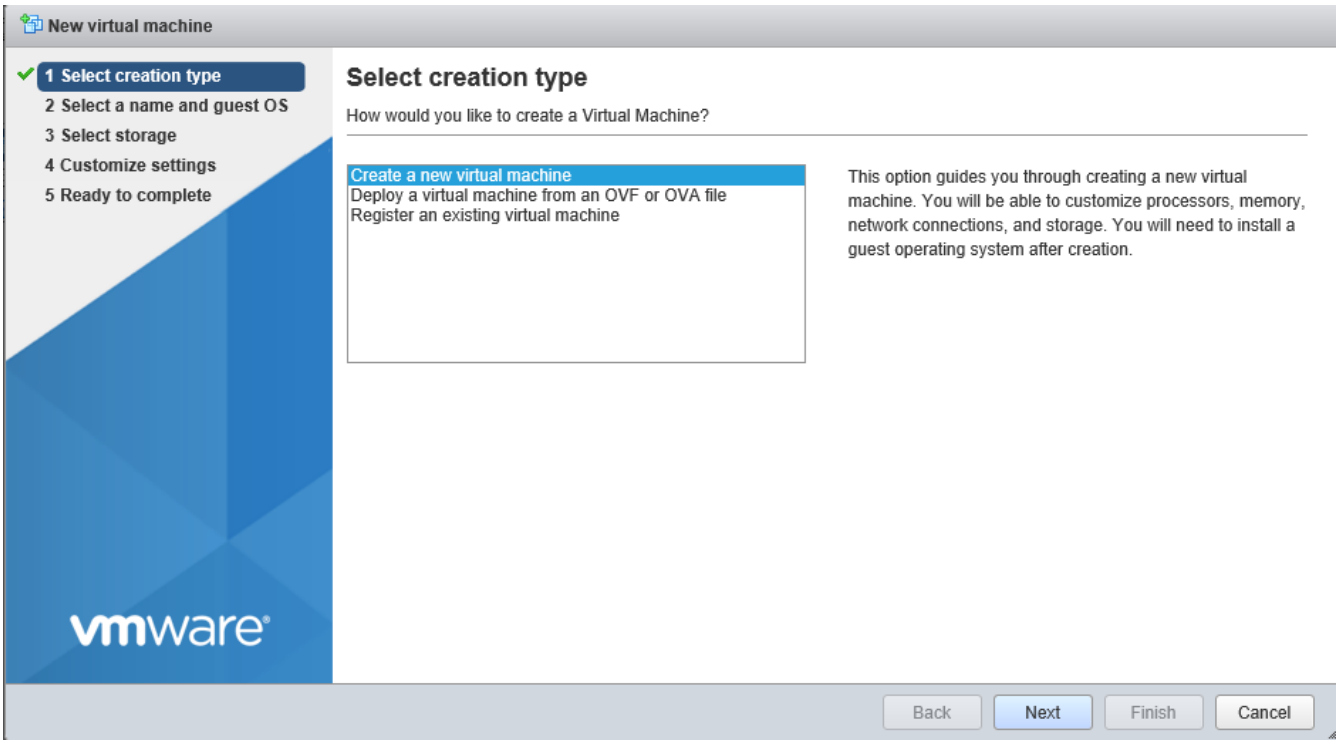
Step 4: Now check the connection between client machine and ESXi server. Go to command prompt and type “ping (ESXi Server IPv4 address)”, example – ping 193.168.5.40



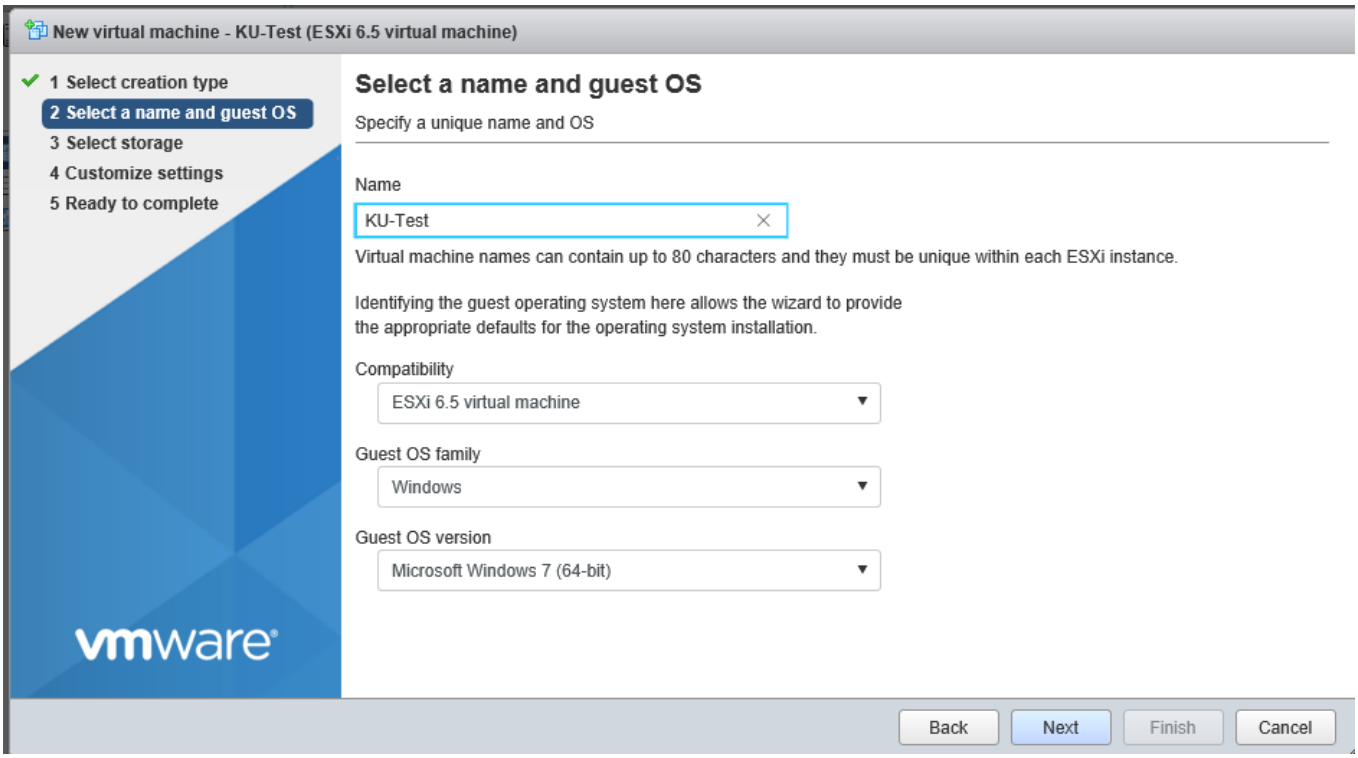
Step 5: Go to web browser and type the ESXi Server IPv4 address and log in by proving the username and its associated password.

3. Installation of OS on top of ESXi Server 6.5.0 –

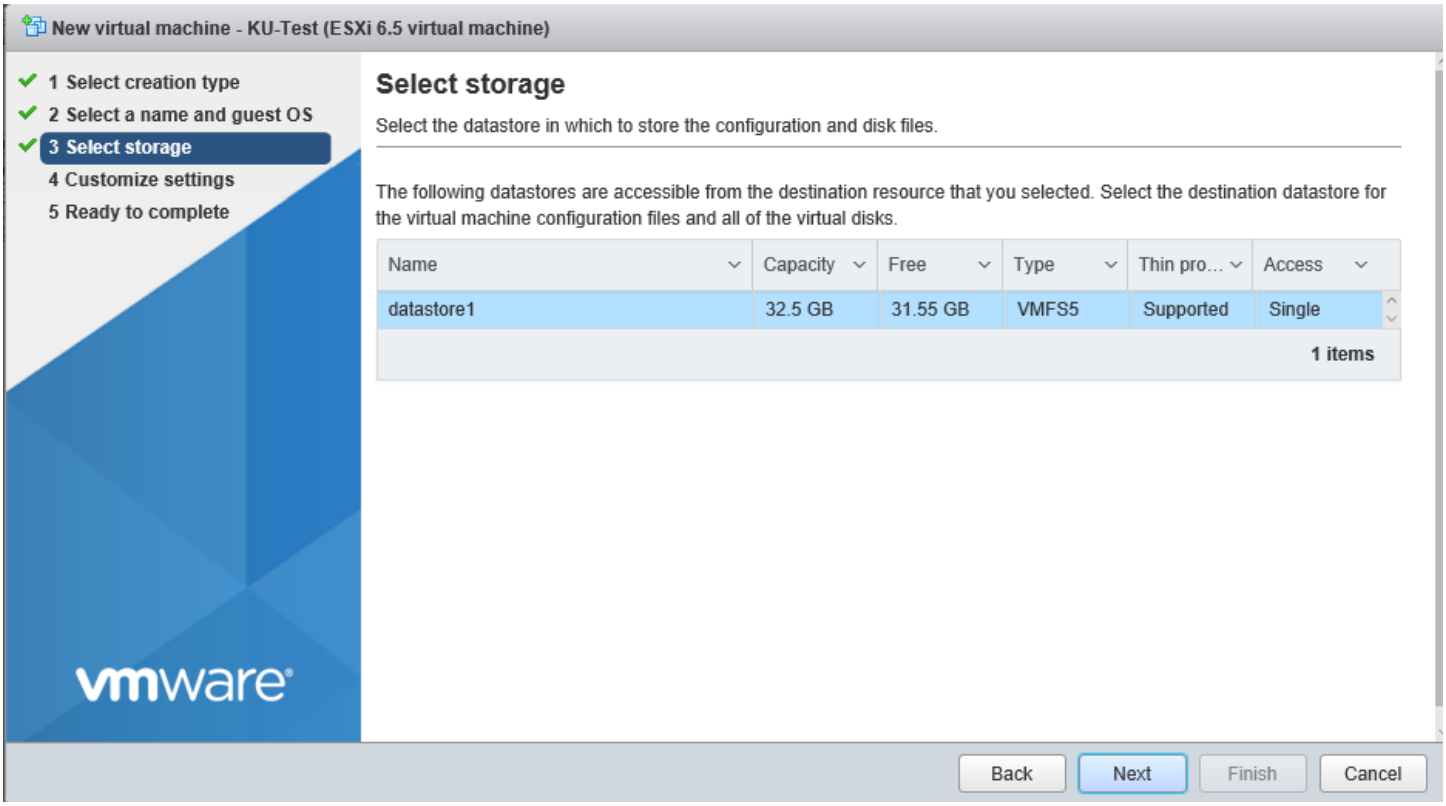
Step 1: In the localhost.loaldomain page go the create/register VM option. A new virtual machine page will open. Select the option for create a new virtual machine and click on the next button to proceed.



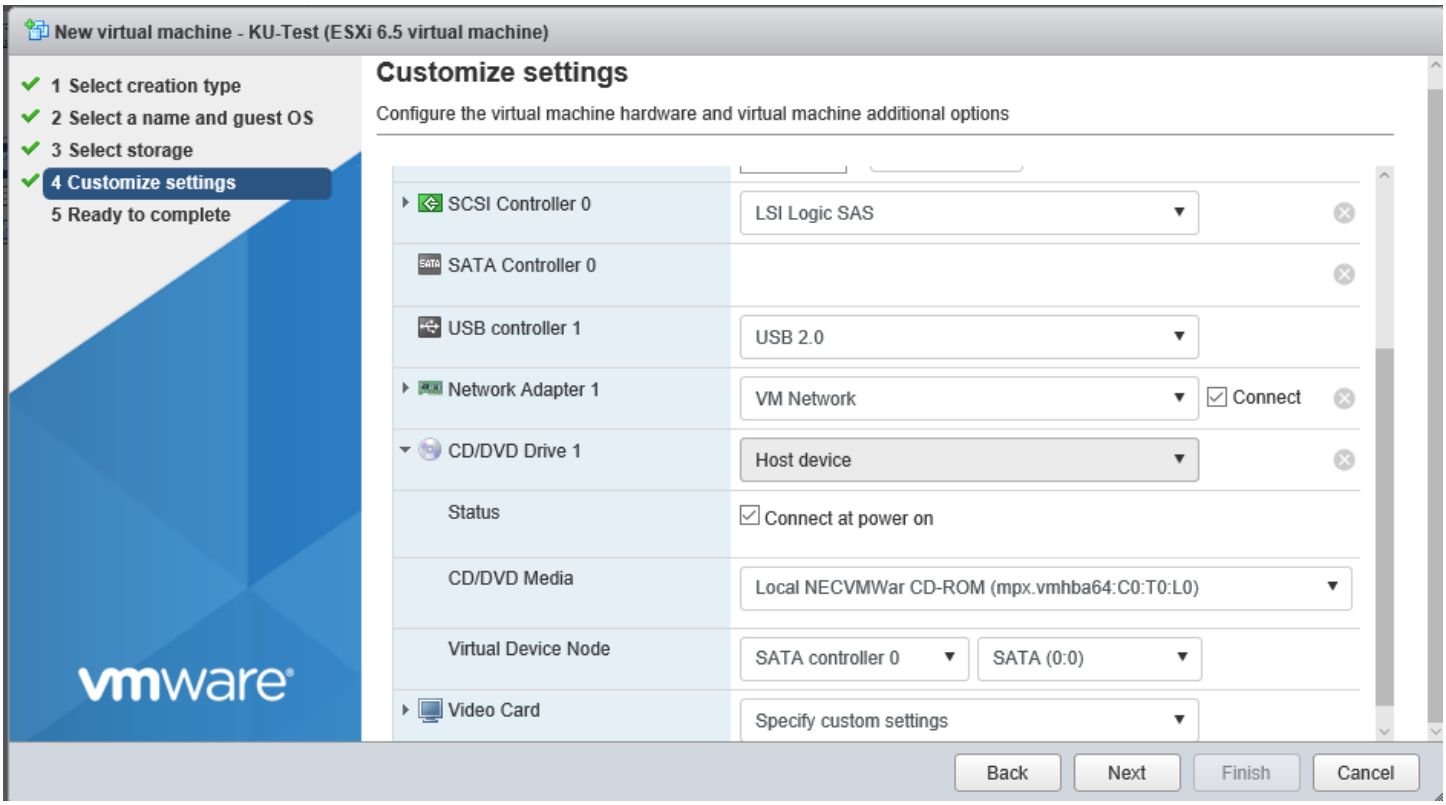
Step 2: Select a name and guest OS. For example we are installing windows 7 here. After providing the details click on the next button.



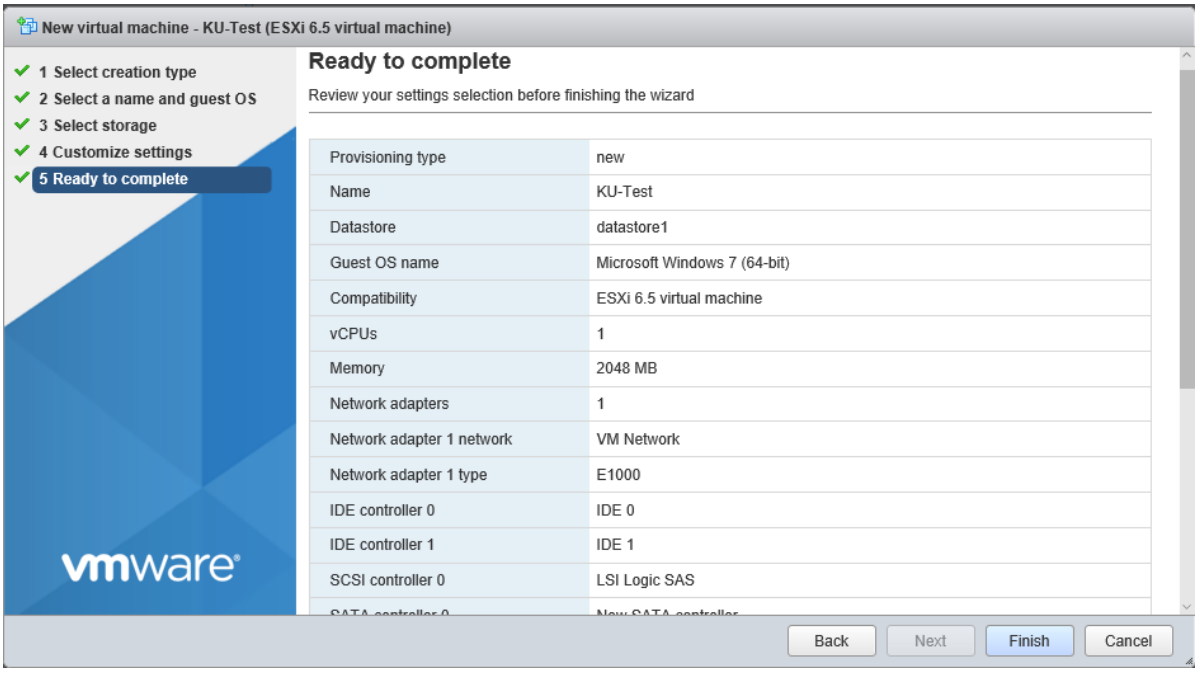
Step 3: Select storage capacity and click next to proceed.



Step 4: Customize the virtual machine hardware and virtual machine. In the cd/dvd drive 1, select the datastore browser option to upload the windows 7 installer package. After uploading windows 7 installer package click on the next button to proceed towards the final step.



Step 5: Review your settings selection before finishing the wizard and then click the finish button.



Step 6: Now the windows 7 OS is installed over ESXi Server. In this way you can install multiple number of operating system on top of the ESXi Server.