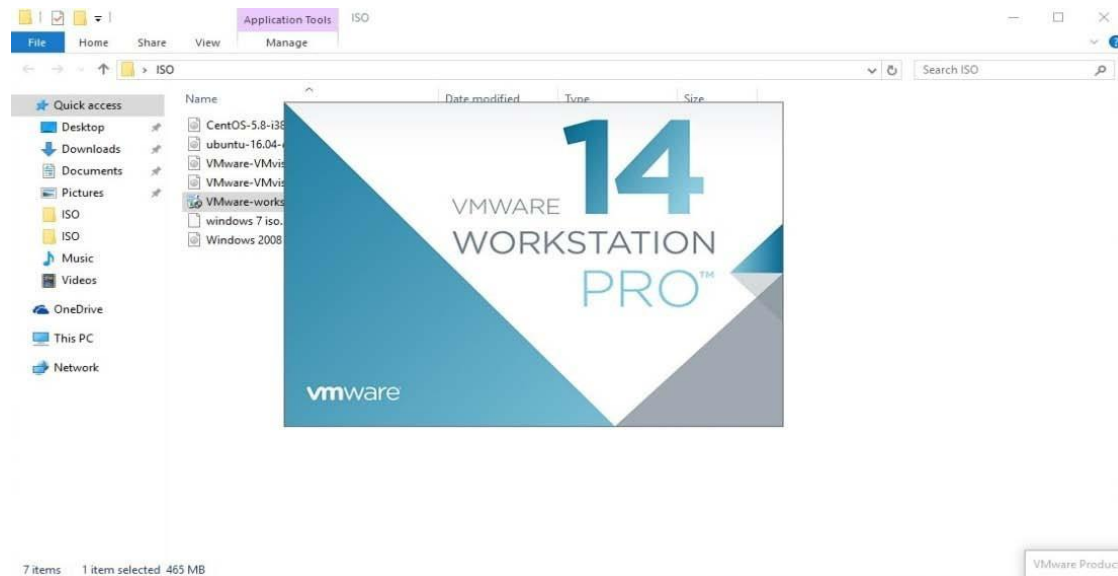


Experiment- 1: Create type 2 virtualization in VMWARE. Allocate memory and storage space as per requirement. Install GuestOS on that VMWARE.

1. Installation of VMware on windows 10

You use the New Virtual Machine wizard to create a new virtual machine in Workstation. The wizard prompts you to make decisions about many aspects of the virtual machine. You should make these decisions before you start the New Virtual Machine wizard. The steps are as follows.

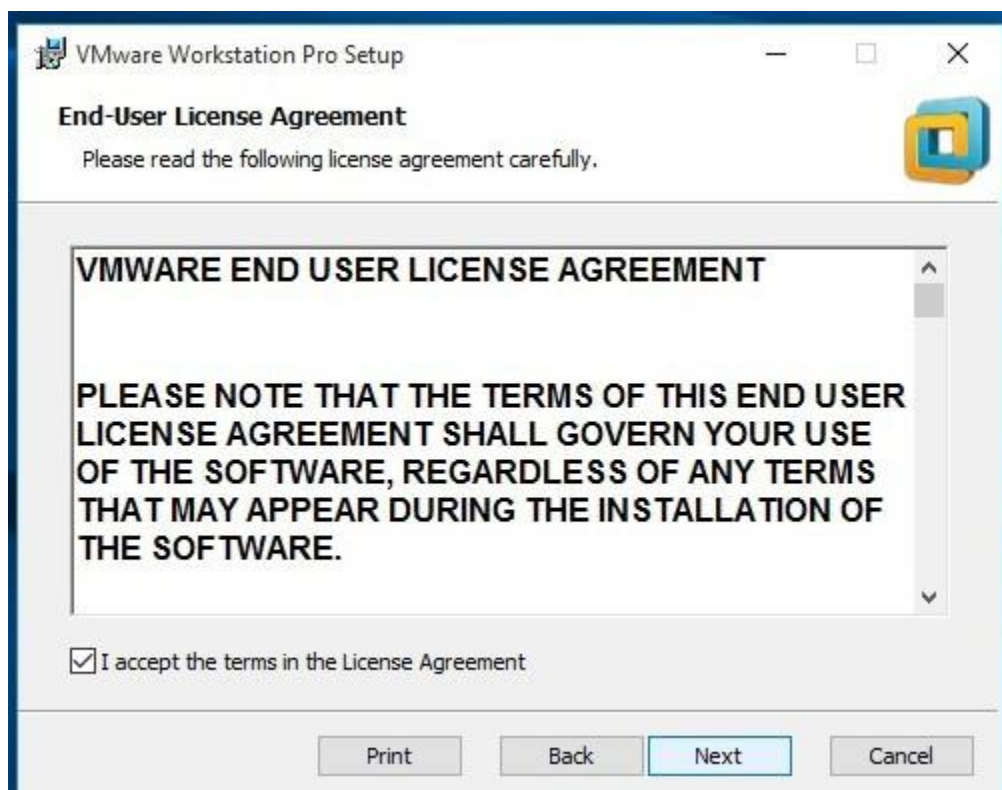
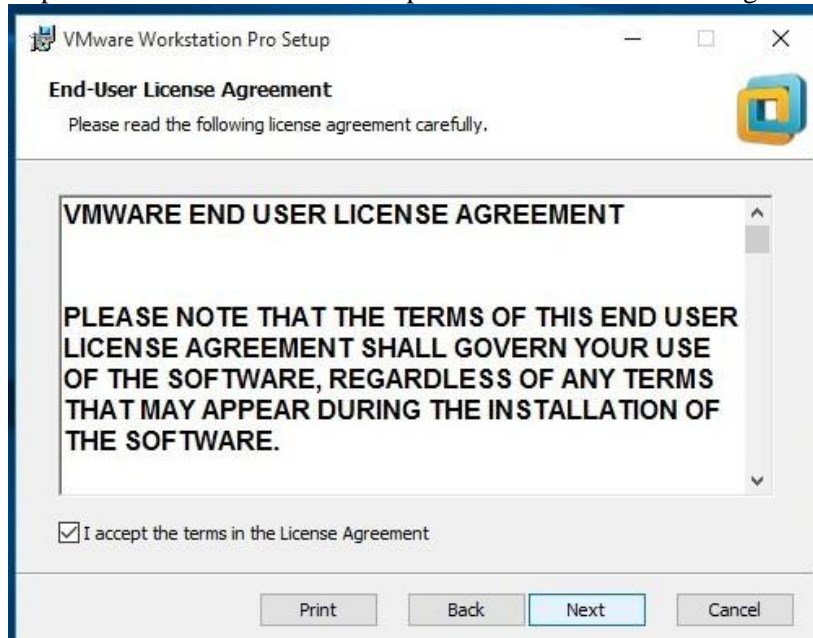
Step 1: Open the VMware wizard.



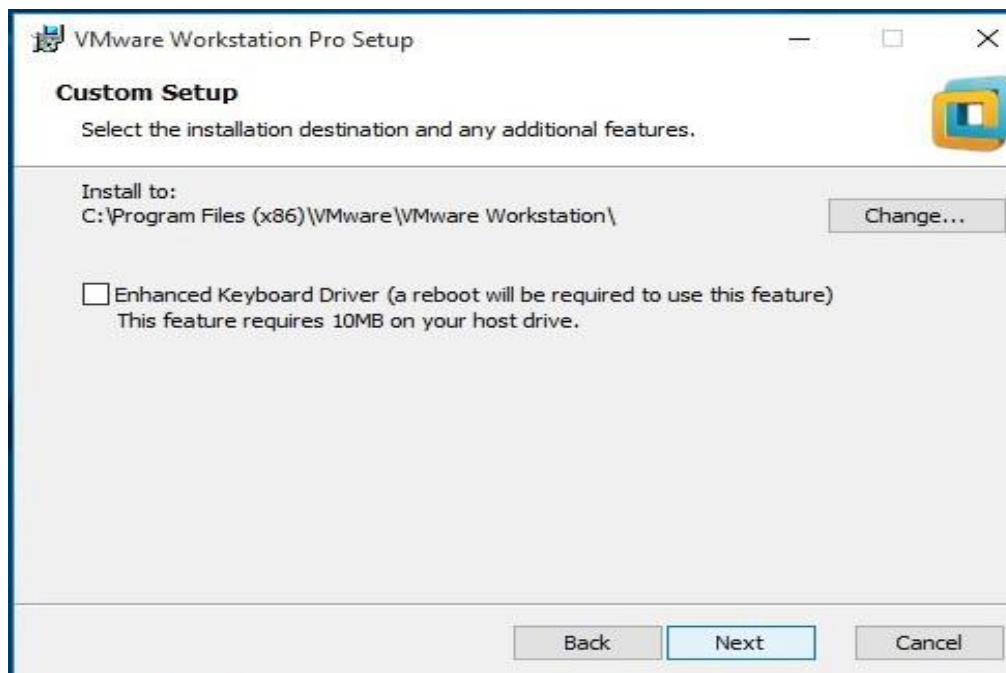
Step 2: Click next in the VMware setup wizard.



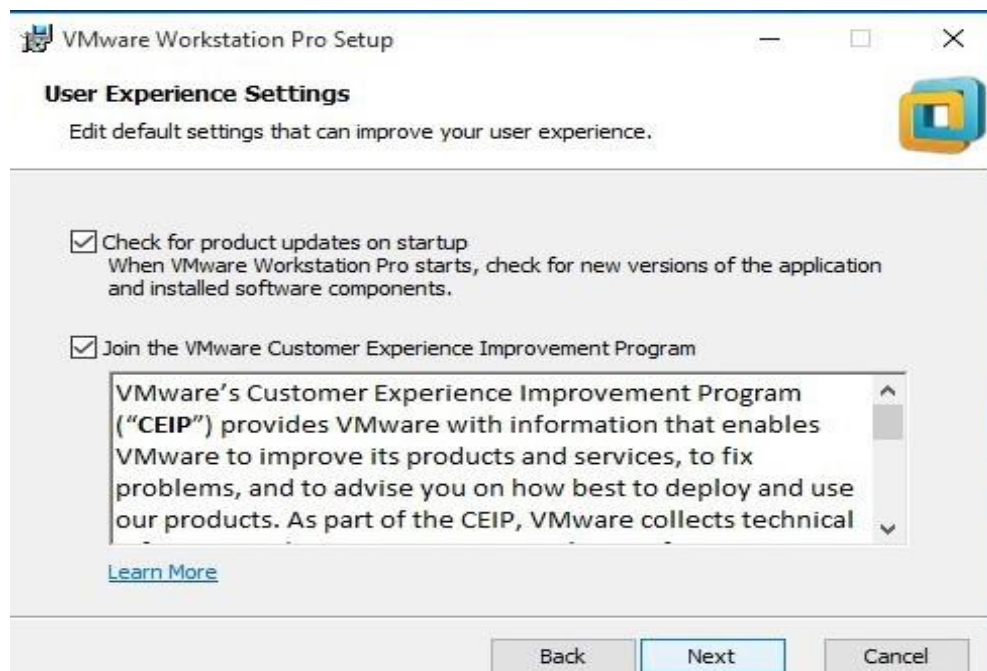
Step 3: Click the checkbox to accept the VM end-user license agreement and press the next button.



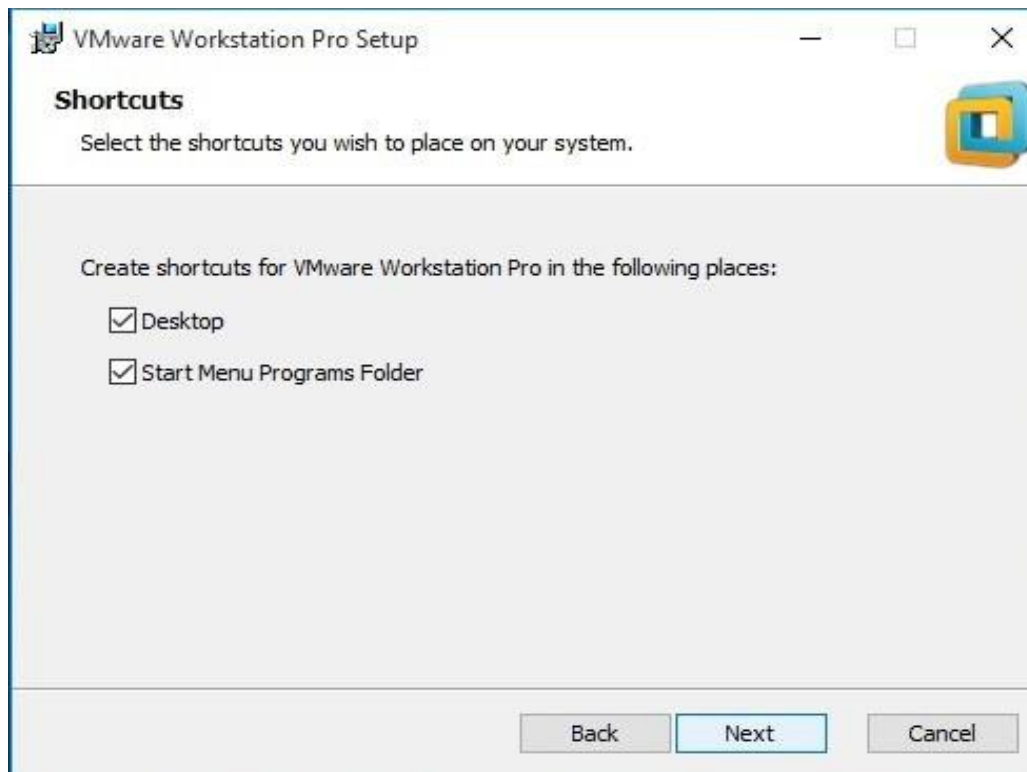
Step 4: The custom setting window will open to select the installation destination and any additional features. C drive will be selected by default. Click Next to proceed further.



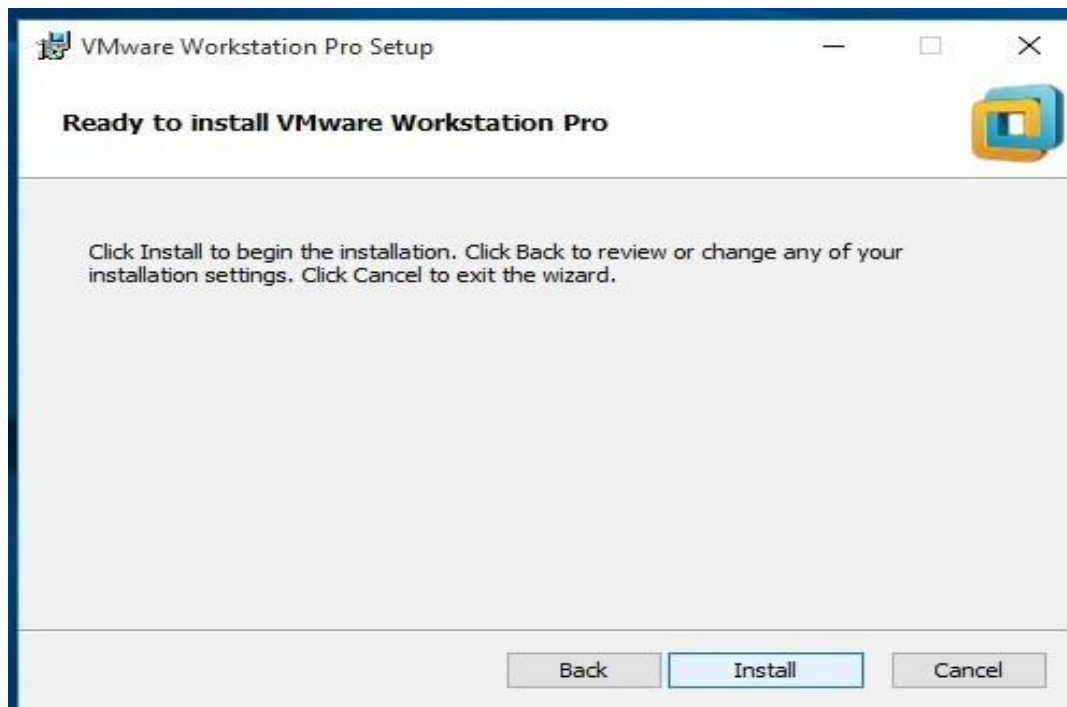
Step 5: Click next in the user experience setting.



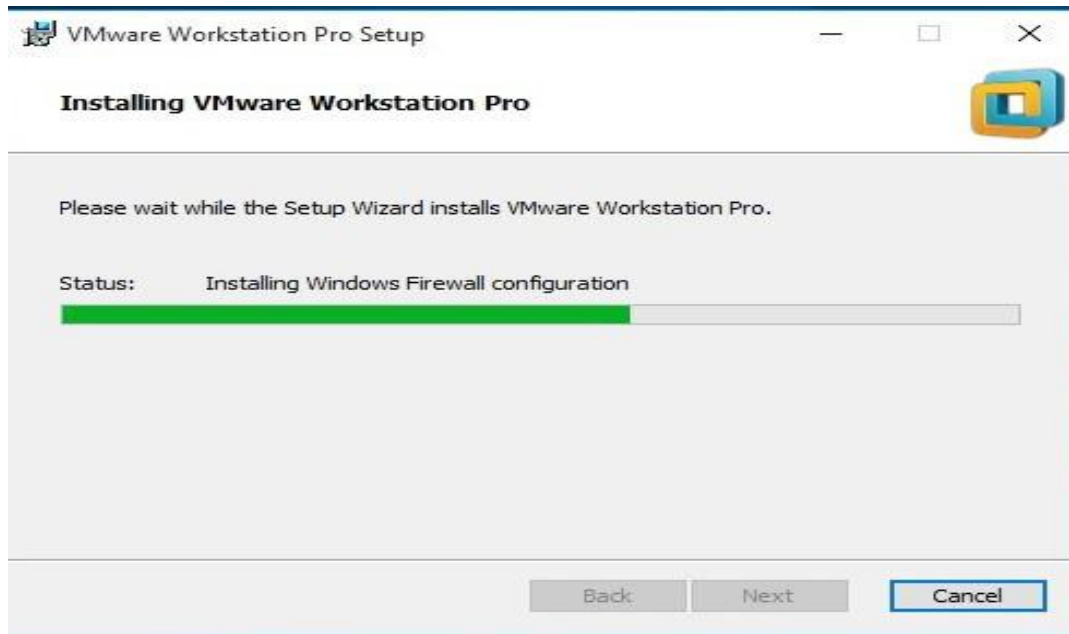
Step 6: The shortcuts window will open which will enable you to place the VM shortcut anywhere you wish to place on the system.



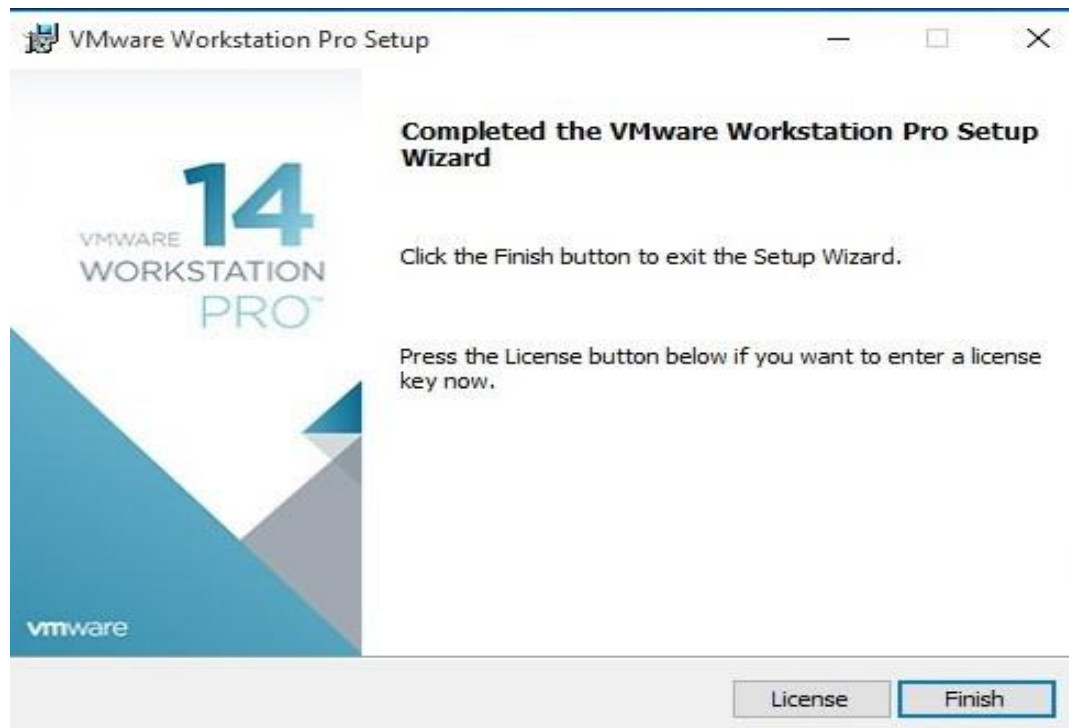
Step 7: Click the install button to install the VMware software on your system or workstation.



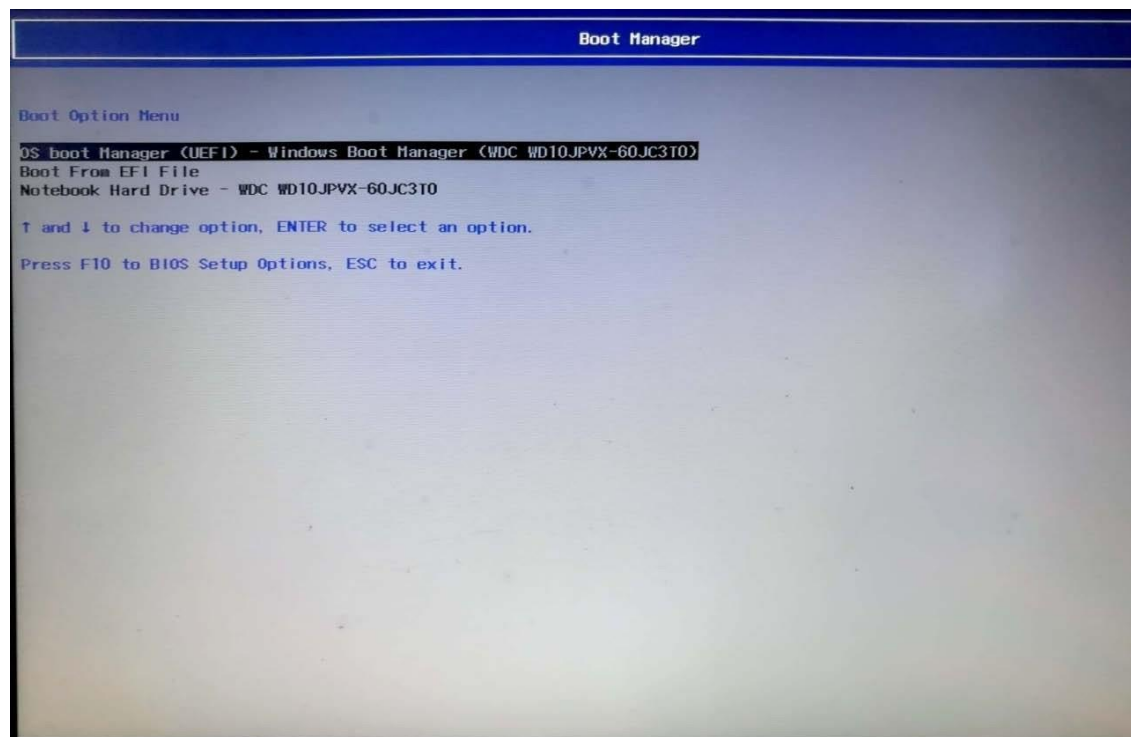
(The installation will take few seconds to proceed.)



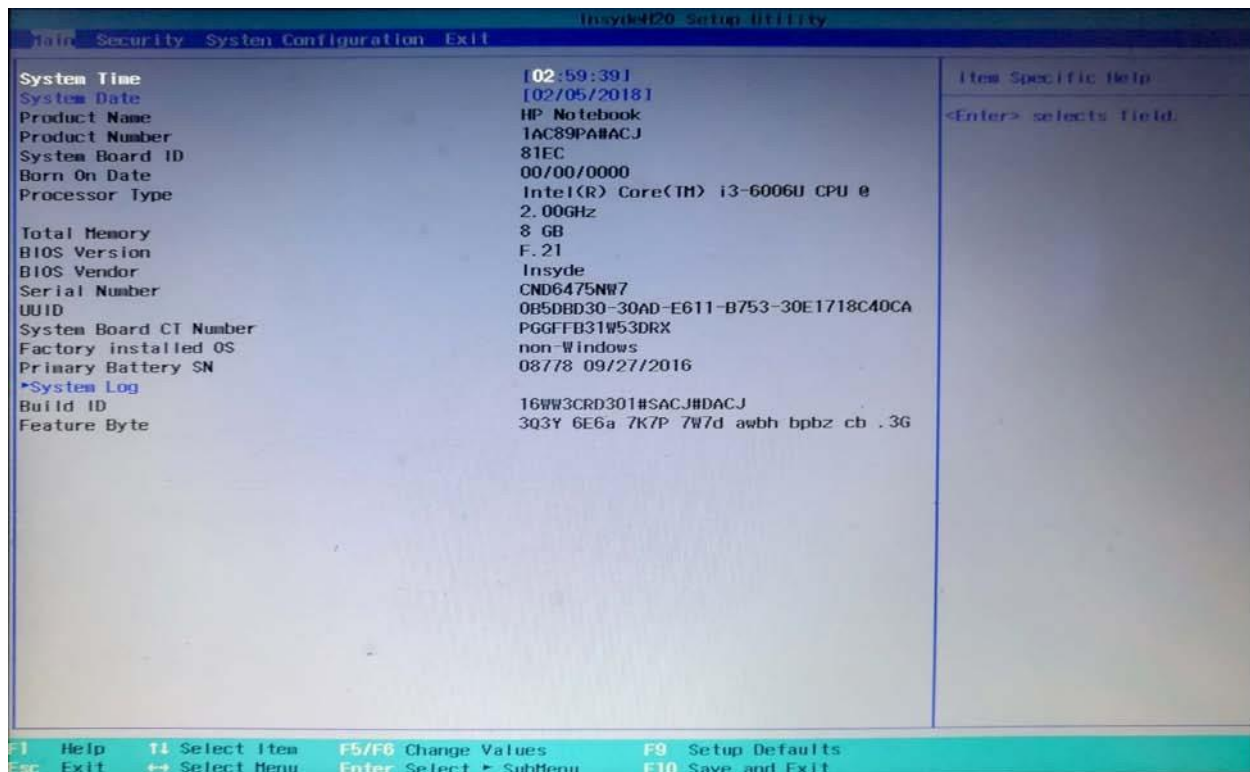
Step 8: Click finish to complete the VMware workstation pro setup wizard.



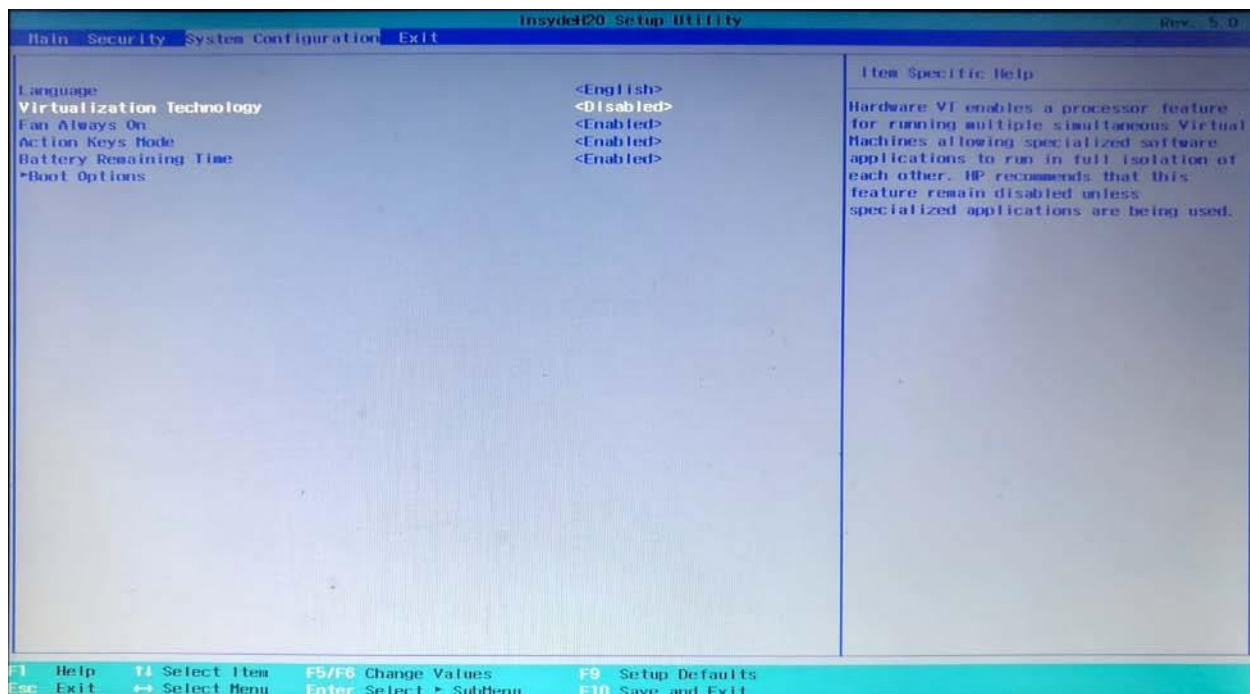
Step 9: After finishing the installation restart the system and while restarting the system continuously press f9 to open the system boot manager.



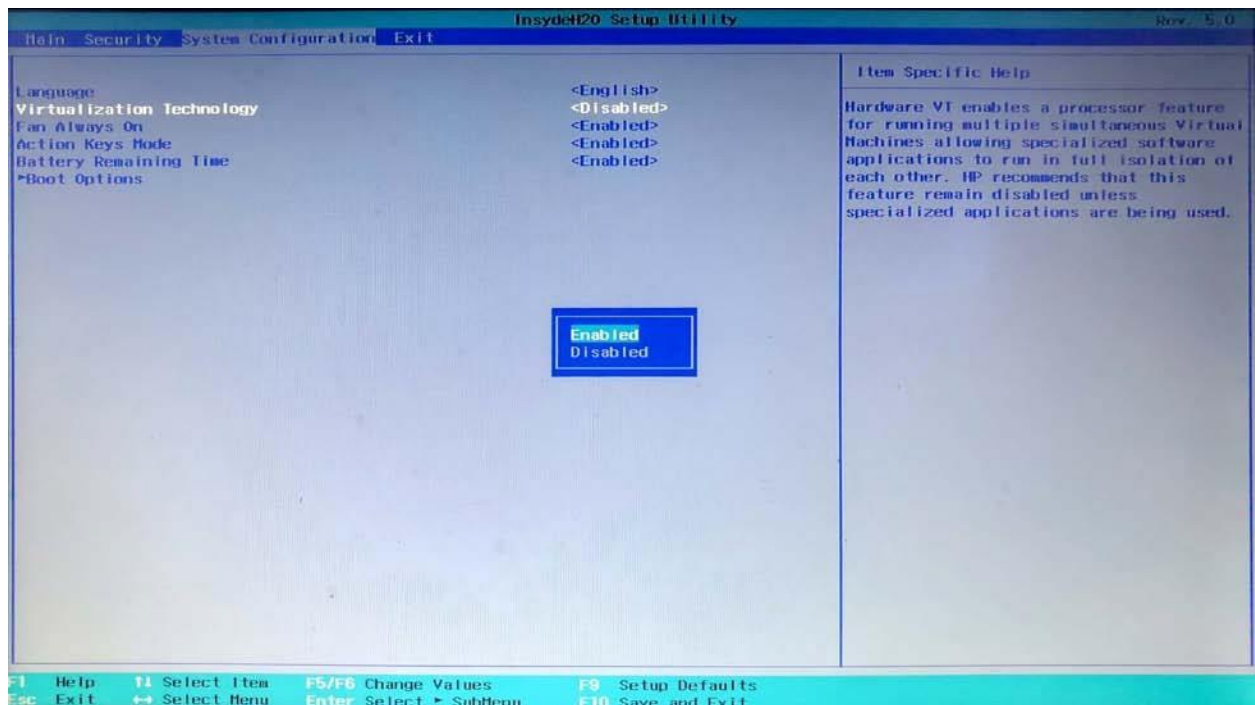
Step 10: Press F10 to open BIOS setup options.



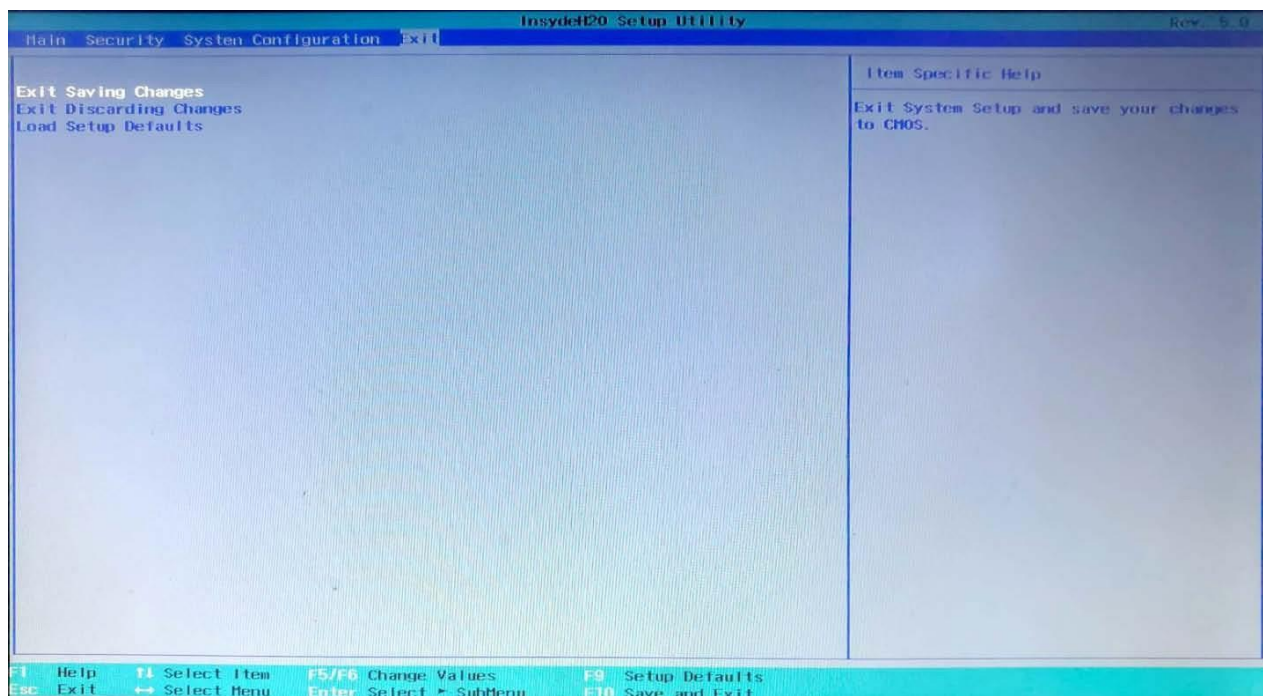
Step 11: Select the System configuration. And go to the Virtualization Technology.



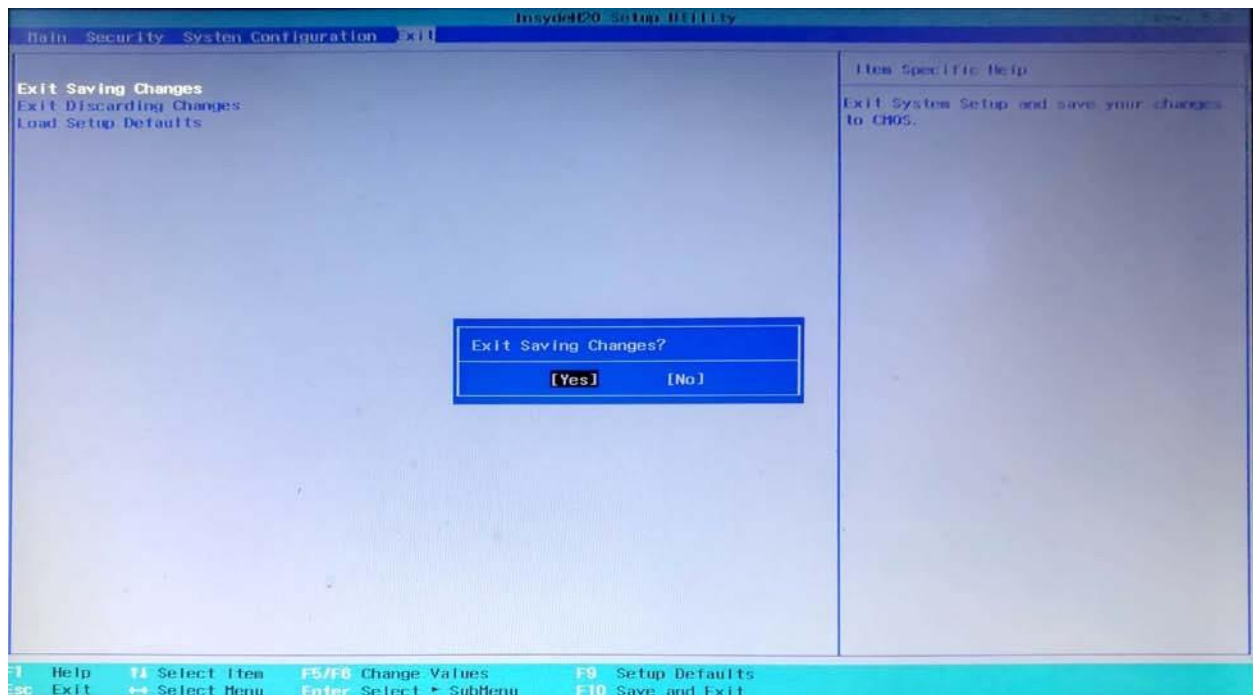
Step 12: Select the enable option to enable the virtualization technology.



Step 13: Go to exit option and then select the option “exit saving changes”.



Step 14: Select yes and then the windows will resume.

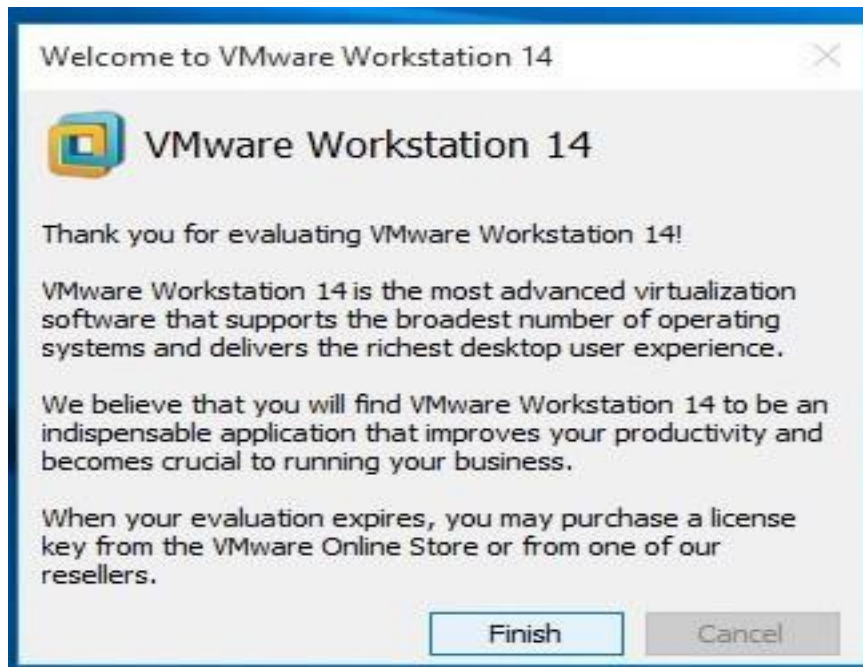


2. Installation of OS on VMware

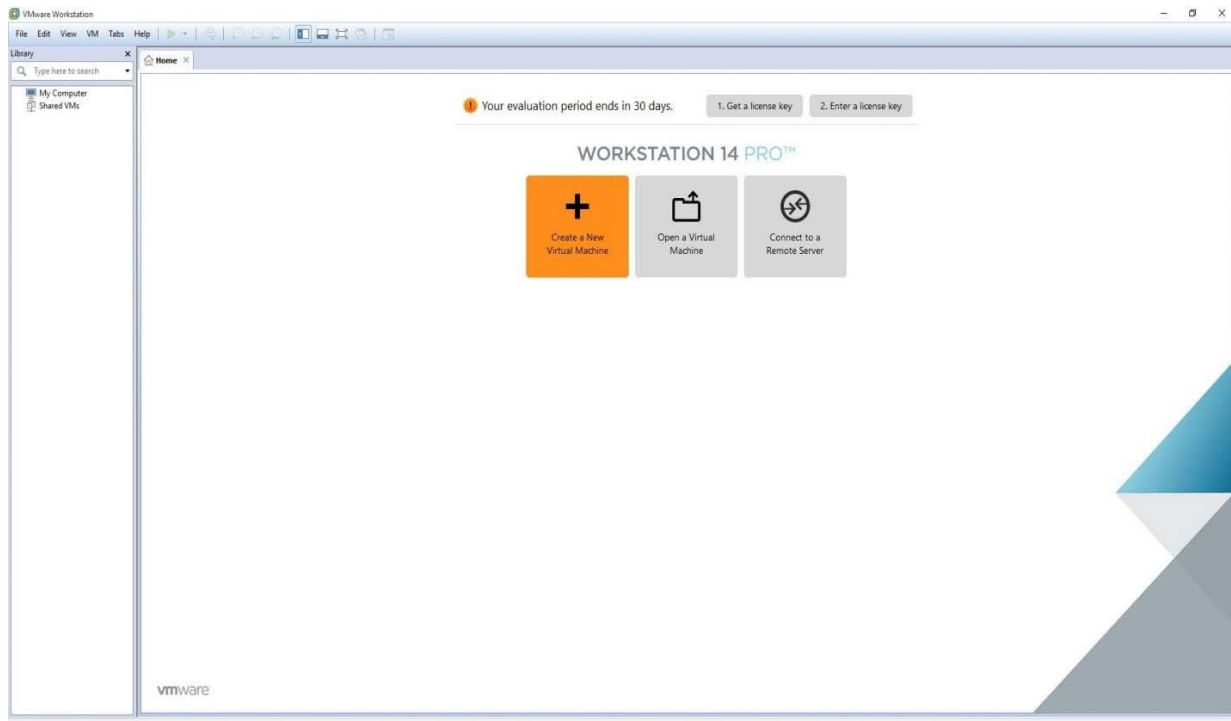
Step 1: Click on the VMware shortcut. A window will be opened to select the trial version or to use the licensed version. Select the trial version and click on the continue tab.



Step 2: Click the finish tab to launch the VMware workstation.



Step 3: Click on the Create a new virtual machine tab to install any operating system on the VMware.

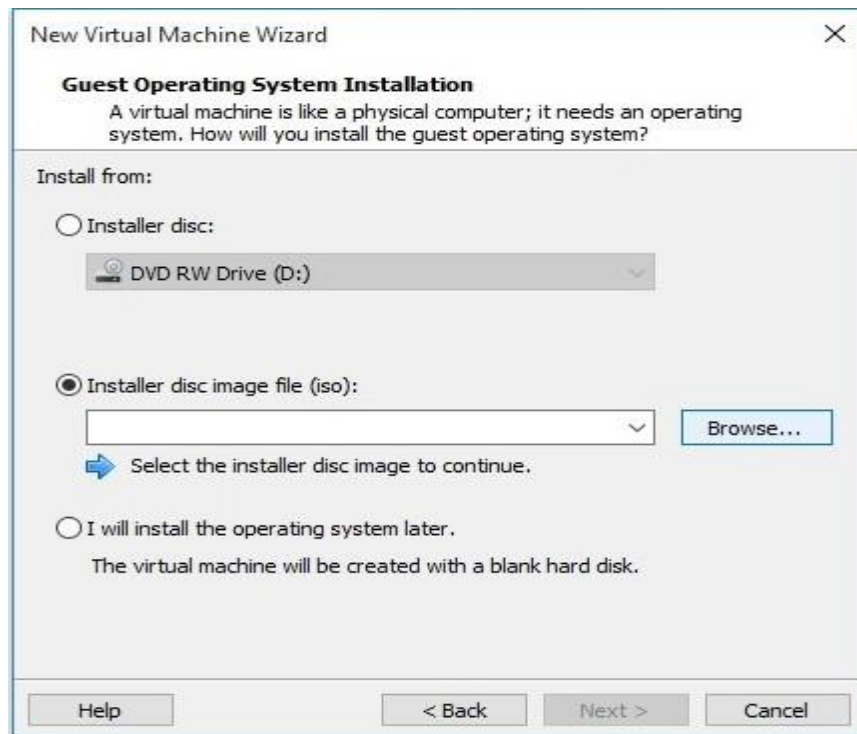


Step 4: Selecting a virtual machine configuration – When you start the New Virtual Machine wizard, the wizard prompts you to select a typical or custom configuration.

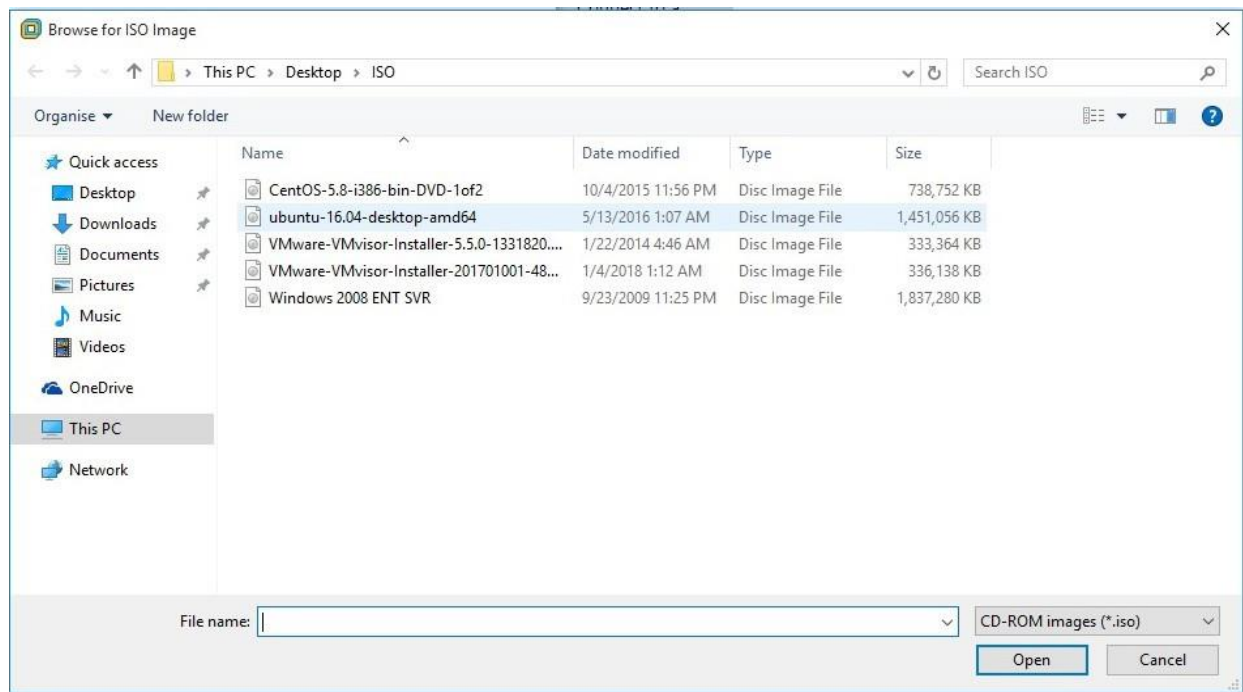
- Typical Configuration – If you select a typical configuration, you must specify or accept defaults for a few basic virtual machine settings.
 - ✓ How you want to install the guest operating system.
 - ✓ A name for the virtual machine and a location for the virtual machine files.
 - ✓ The size of the virtual disk and whether to split the disk into multiple virtual disk files.
 - ✓ Whether to customize specific hardware settings, including memory allocation, number of virtual processors, and network connection type.
- Custom Configuration – You must select a custom configuration if you need to perform any of the following hardware customizations.
 - ✓ Create a virtual machine that has a different Workstation version than the default hardware compatibility setting.
 - ✓ Select the I/O controller type for the SCSI controller.
 - ✓ Select the virtual disk device type.
 - ✓ Configure a physical disk or an existing virtual disk instead of create a new virtual disk.
 - ✓ Allocate all virtual disk space rather than let disk space gradually grow to the maximum disk size.



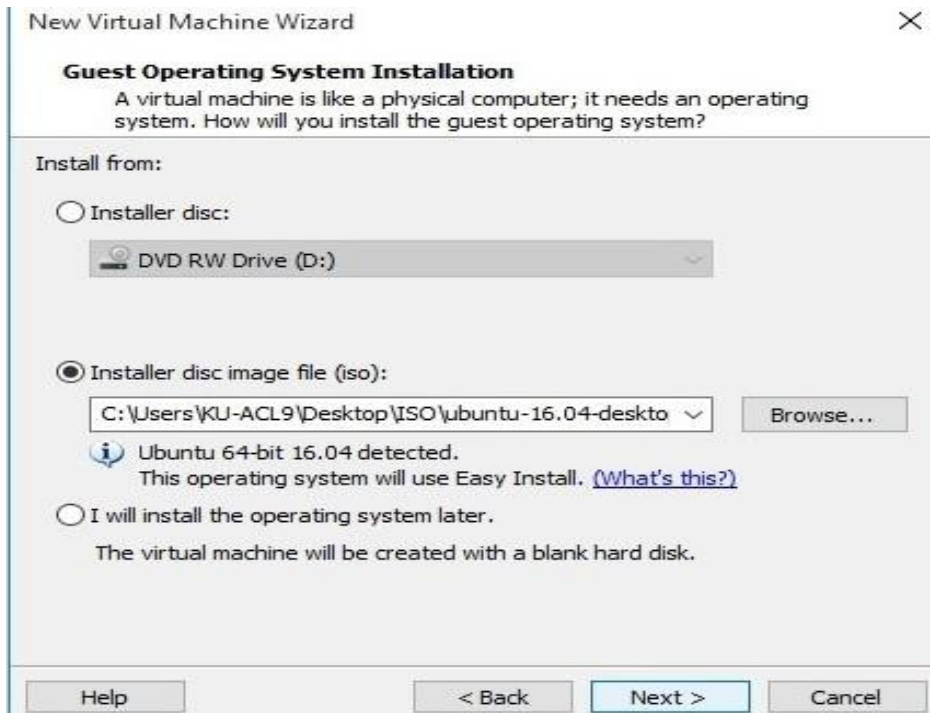
Step 5: A Guest Operating System Installation window will be open. Select the installer disc image file option to load any operating system from the ISO folder.



Step 6: Click on the browse option and select the desired operating system to be installed. For example here ubuntu has been selected.



Step 7: Click next to install the guest OS on the VMware.




New Virtual Machine Wizard

Guest Operating System Installation
A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

☐ Installer disc:
DVD R/W Drive (D:)

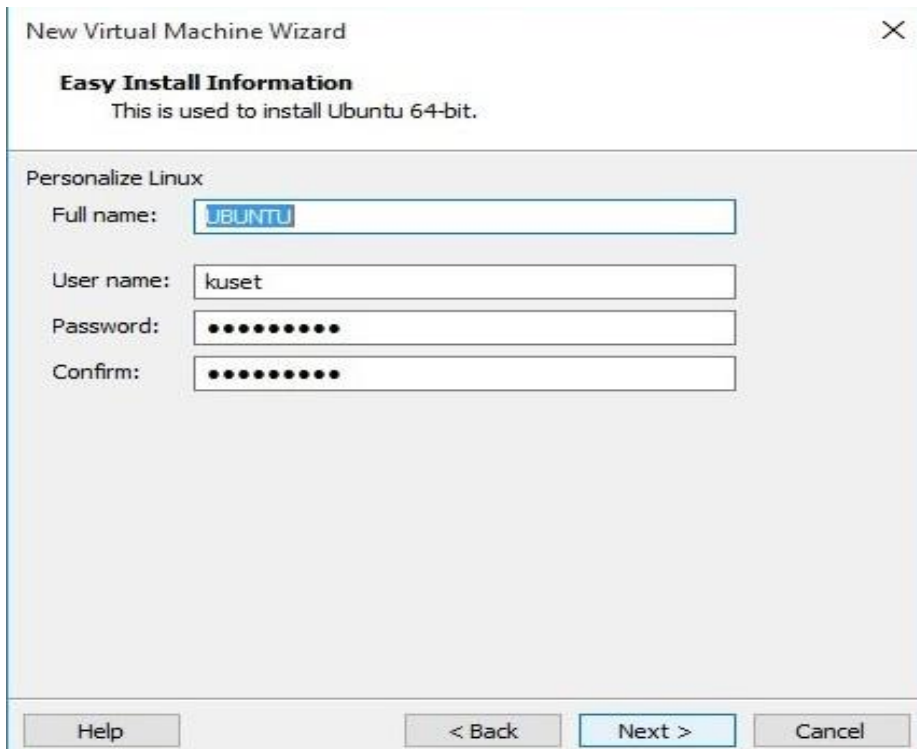
☒ Installer disc image file (iso):
C:\Users\KJ-ACL9\Desktop\ISO\ubuntu-16.04-deskto Browse...

 Ubuntu 64-bit 16.04 detected.
This operating system will use Easy Install. [\(What's this?\)](#)

☐ I will install the operating system later.
The virtual machine will be created with a blank hard disk.

Help < Back Next > Cancel

Step 8: Providing Easy Install Information – When the New Virtual Wizard detects an operating system that supports Easy Install, the wizard prompts you for information about the guest operating system. After giving the details click on the next button to proceed further.



New Virtual Machine Wizard

Easy Install Information
This is used to install Ubuntu 64-bit.

Personalize Linux

Full name: UBUNTU

User name: kuset

Password: ●●●●●●●●

Confirm: ●●●●●●●●

Help < Back Next > Cancel

Step 9: 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.

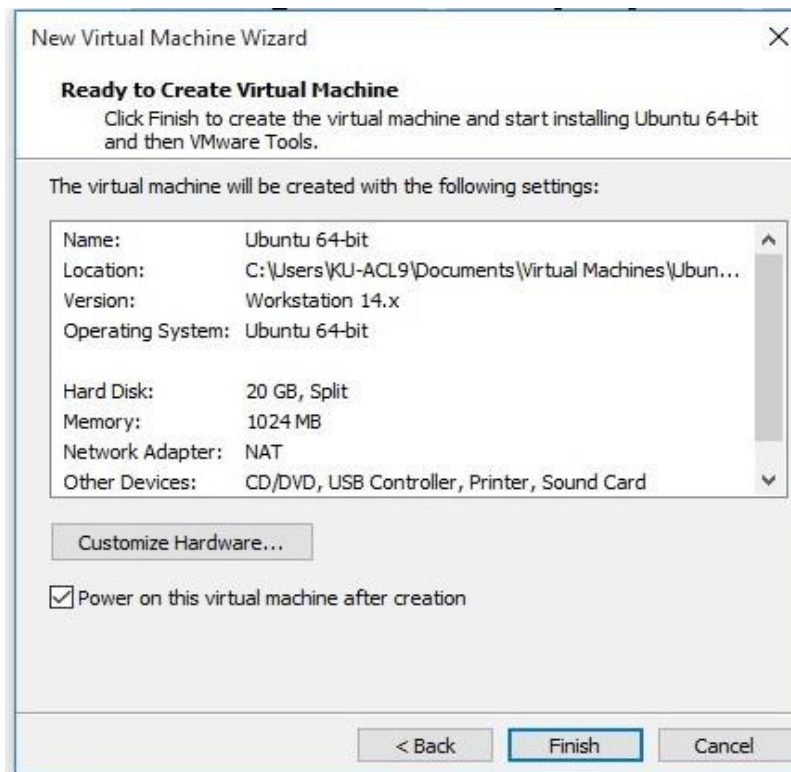
The screenshot shows the 'New Virtual Machine Wizard' dialog box. The title bar says 'New Virtual Machine Wizard'. The main heading is 'Name the Virtual Machine' with the subtext 'What name would you like to use for this virtual machine?'. There are two input fields: 'Virtual machine name:' with the text 'Ubuntu 64-bit' and 'Location:' with the text 'C:\Users\KU-ACL9\Documents\Virtual Machines\Ubuntu 64-bit'. A 'Browse...' button is next to the location field. Below the location field, it says 'The default location can be changed at Edit > Preferences.' At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Step 10: Specifying Disk Capacity for a Virtual Machine –

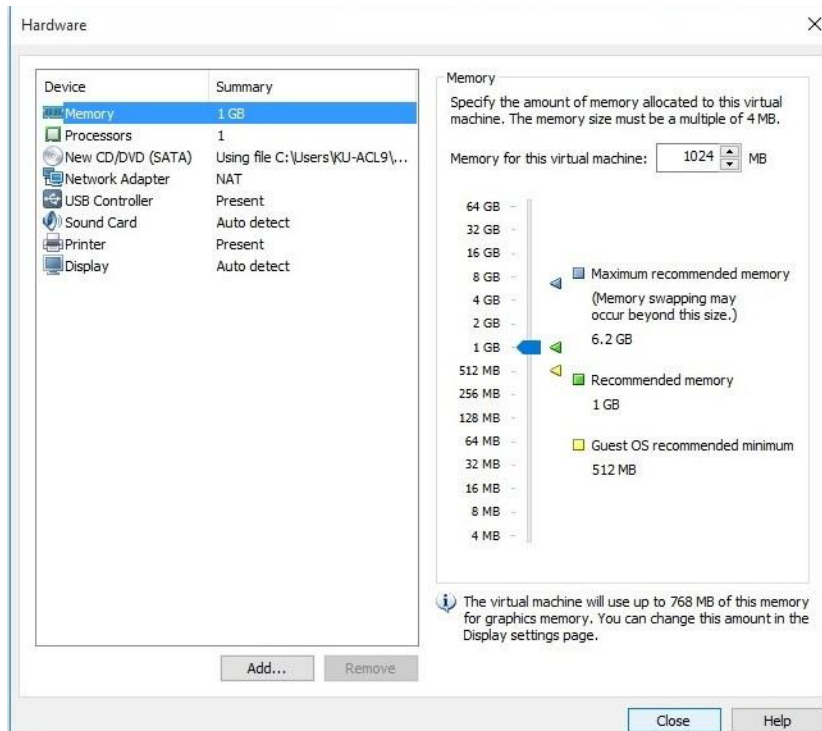
- Give the maximum disk size as per your preference. By default it takes 20 GB.
- Click the option to store virtual disk as a single file or you want to split virtual disk into multiple files.
- Click on the next button after giving the details.

The screenshot shows the 'New Virtual Machine Wizard' dialog box. The title bar says 'New Virtual Machine Wizard'. The main heading is 'Specify Disk Capacity' with the subtext 'How large do you want this disk to be?'. There is a paragraph of text: '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.' Below this, there is a 'Maximum disk size (GB):' label and a spinner box showing '20.0'. Below that, it says 'Recommended size for Ubuntu 64-bit: 20 GB'. There are two radio button options: 'Store virtual disk as a single file' and 'Split virtual disk into multiple files'. The 'Split virtual disk into multiple files' option is selected. Below the radio buttons, there is a note: 'Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.' At the bottom, there are four buttons: 'Help', '< Back', 'Next >', and 'Cancel'.

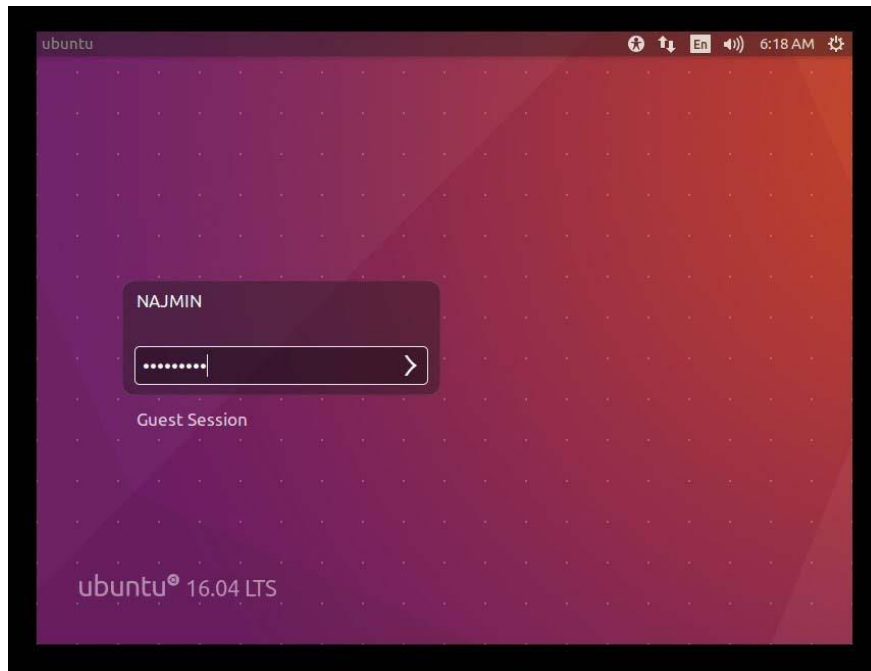
Step 11: Click finish to create the virtual machine and start installing guest OS and then VMware tools.



Step 12: Here one can also customize hardware by click on the Customize Hardware option and do the necessary changes as shown below. After the adjustments are done click on the close tab and then finish the process.



Step 13: The installation may take a while. After which the Ubuntu window will be displayed and you have to provide the password to access the account.



Step 14: You are all set to use the Ubuntu operating system on VMware.

