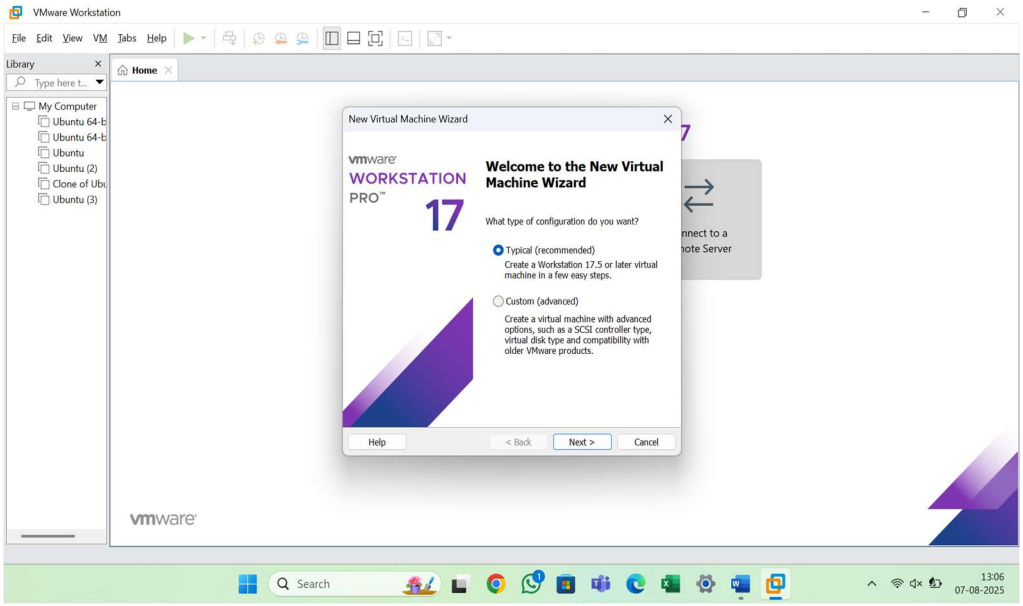
EXPERIMENT - 12

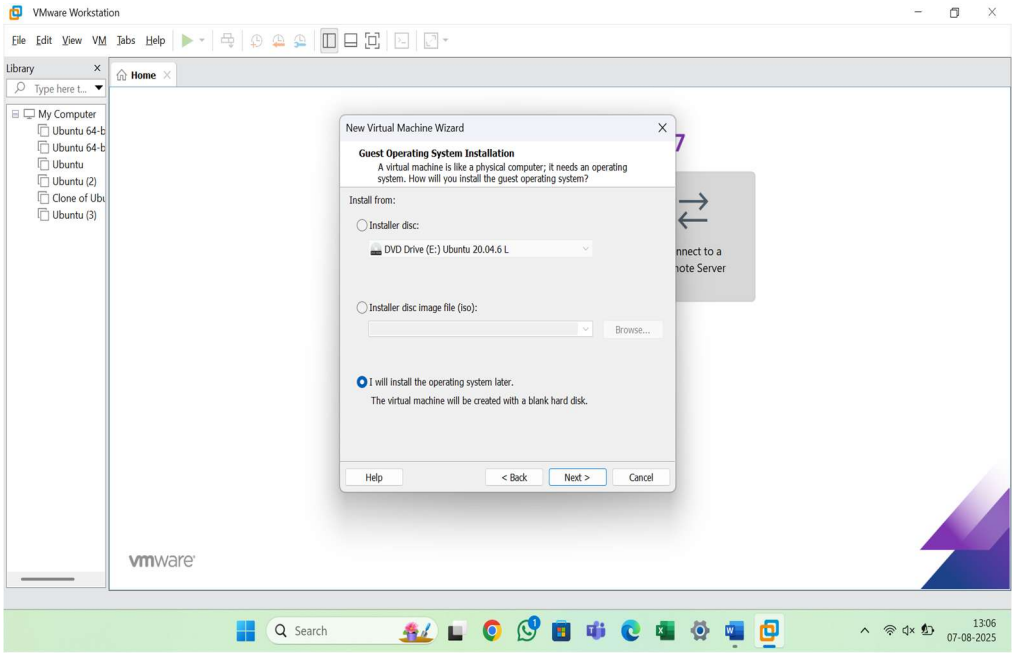
Aim

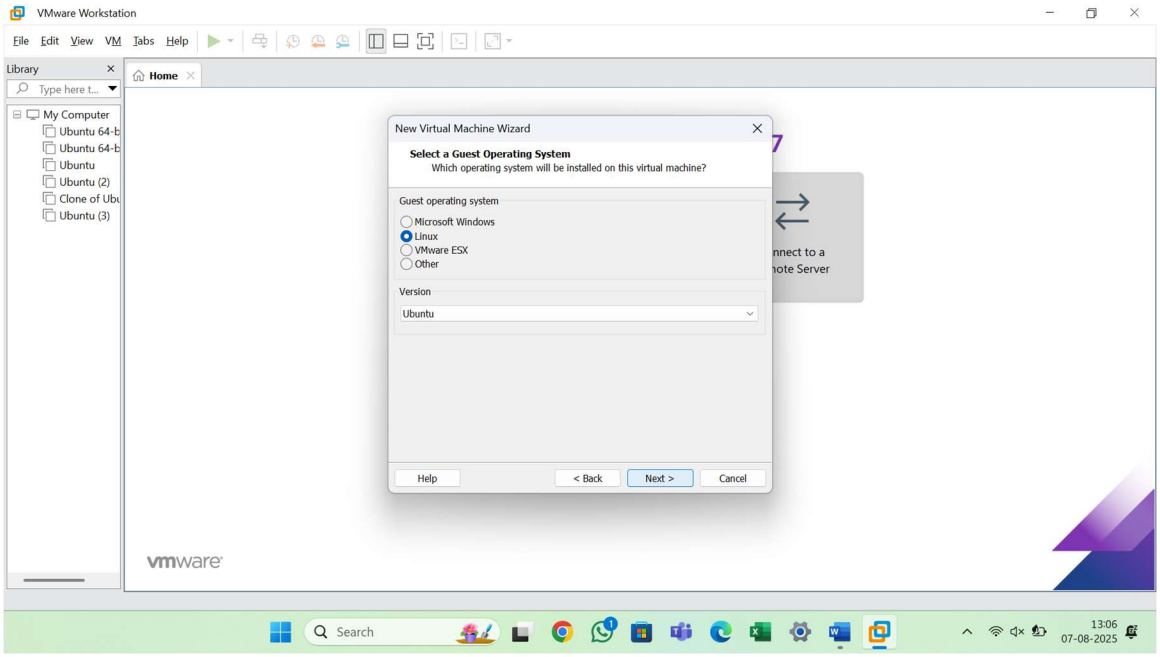
To demonstrate virtualization by installing a Type-2 Hypervisor (VMware Workstation), creating and configuring a Virtual Machine (VM) image with a host operating system (Windows/Linux).

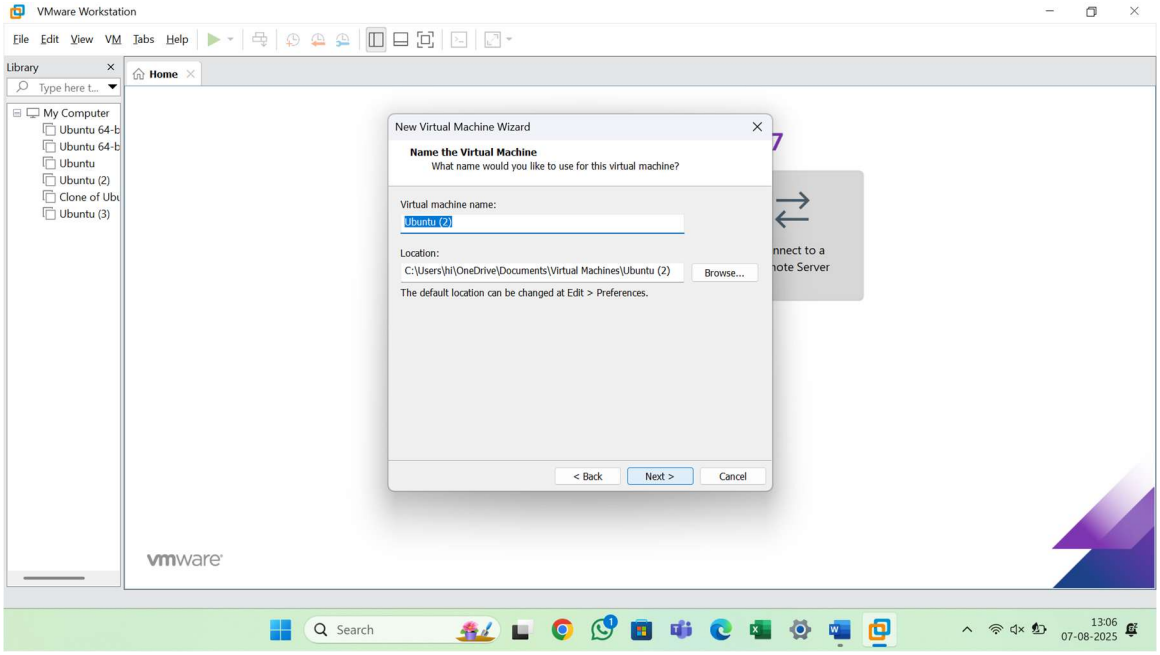
Procedure

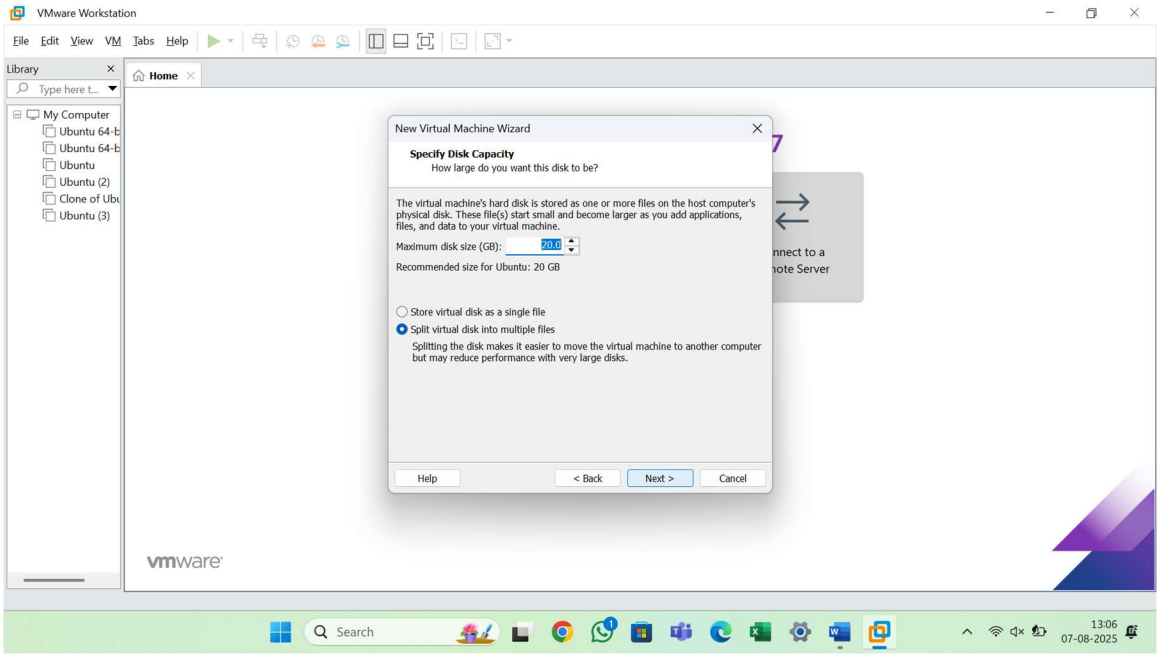
1. Download and install VMware Workstation Player from the official website: https://www.vmware.com/products/workstation-player.html.
2. Launch VMware Workstation Player after installation.
3. Click on 'Create a New Virtual Machine'.
4. Choose the installation method for the guest OS (Installer disc/ISO image).
5. Select the ISO file of the desired operating system (e.g., Ubuntu or Windows).
6. Name the virtual machine and choose a storage location.
7. Allocate disk space (e.g., 20 GB or more) and memory (e.g., 2–4 GB RAM).
8. Configure the network settings (NAT or Bridged).
9. Start the VM and install the guest operating system by following the on-screen instructions.
10. After installation, install VMware Tools for better integration and performance.
11. Configure additional settings like screen resolution, shared folders, and drag-and-drop functionality.

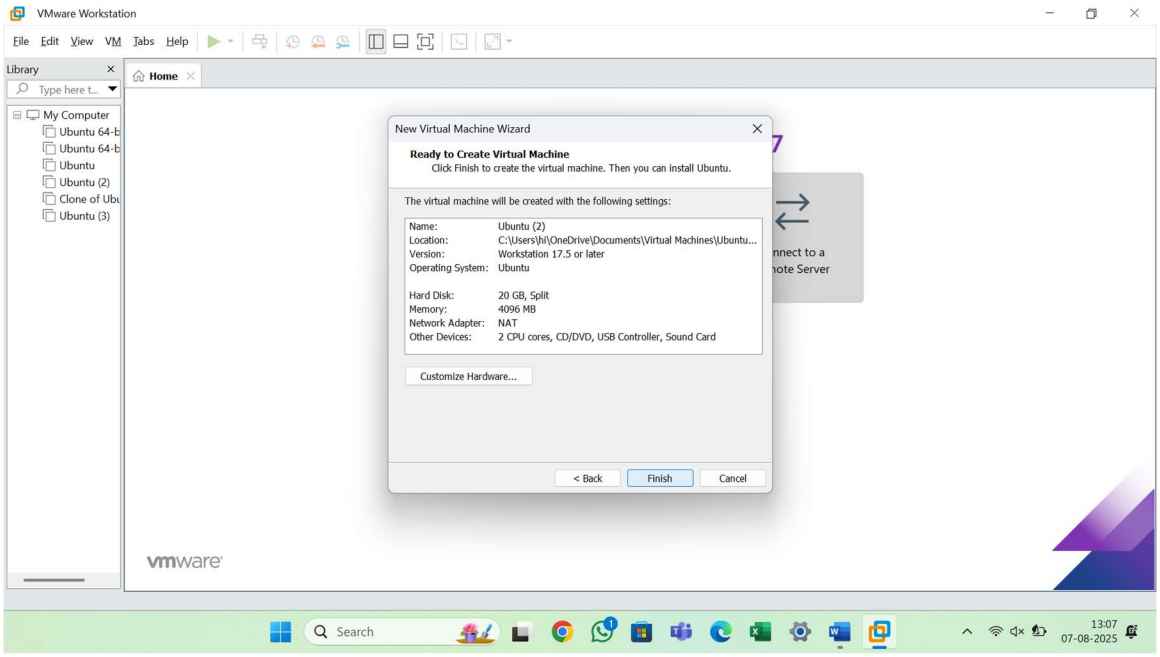

VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Ubuntu 64-b
Ubuntu 64-b
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Home
New Virtual Machine Wizard
vmware
WORKSTATION
PRO™
17
Welcome to the New Virtual Machine Wizard
What type of configuration do you want?
Typical (recommended)
Create a Workstation 17.5 or later virtual machine in a few easy steps.
Custom (advanced)
Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.
Help
< Back
Next >
Cancel
vmware
Search
13:06
07-08-2025

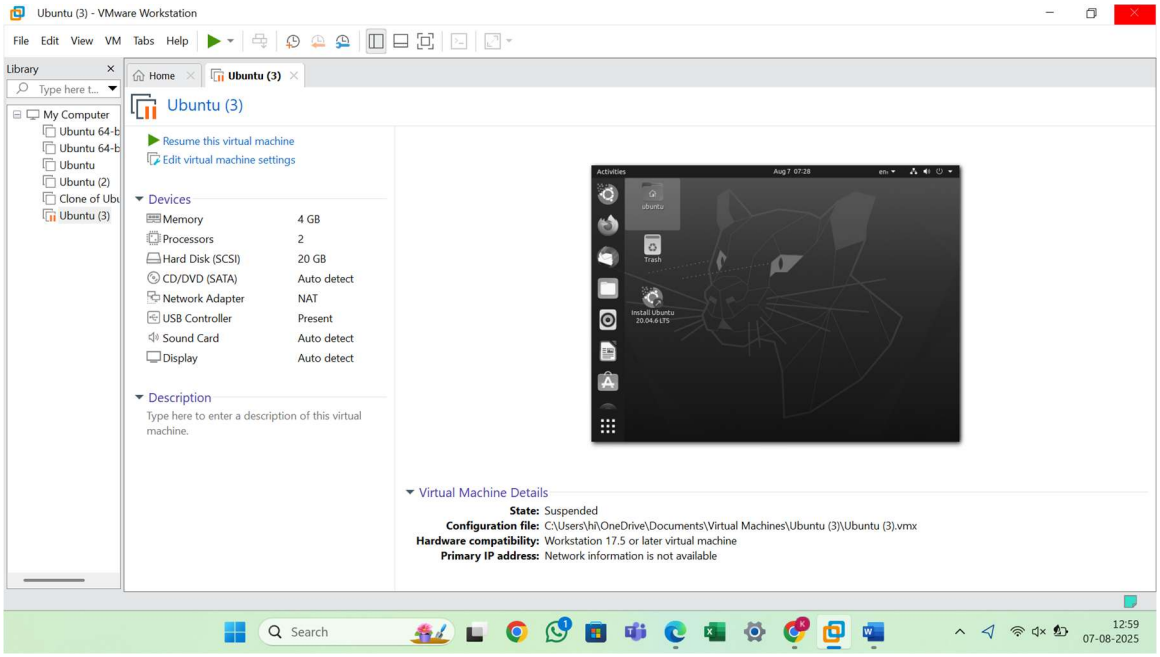

VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Ubuntu 64-b
Ubuntu 64-b
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Home
New Virtual Machine Wizard
Guest Operating System Installation
A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?
Install from:
Installer disc:
DVD Drive (E:) Ubuntu 20.04.6 L
Installer disc image file (iso):
Browse...
I will install the operating system later.
The virtual machine will be created with a blank hard disk.
Help
< Back
Next >
Cancel
vmware
Search
13:06
07-08-2025


VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Ubuntu 64-b
Ubuntu 64-b
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Home
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
VMware ESX
Other
Version
Ubuntu
Help
< Back
Next >
Cancel
vmware
Search
13:06
07-08-2025


VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Ubuntu 64-b
Ubuntu 64-b
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Home
New Virtual Machine Wizard
Name the Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name:
Ubuntu (2)
Location:
C:\Users\hi\OneDrive\Documents\Virtual Machines\Ubuntu (2)
Browse...
The default location can be changed at Edit > Preferences.
< Back
Next >
Cancel
vmware
Search
13:06
07-08-2025


VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Ubuntu 64-b
Ubuntu 64-b
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Home
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): 20.0
Recommended size for Ubuntu: 20 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
vmware
Search
13:06
07-08-2025


VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Ubuntu 64-b
Ubuntu 64-b
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Home
New Virtual Machine Wizard
Ready to Create Virtual Machine
Click Finish to create the virtual machine. Then you can install Ubuntu.
The virtual machine will be created with the following settings:
Name: Ubuntu (2)
Location: C:\Users\hi\OneDrive\Documents\Virtual Machines\Ubuntu...
Version: Workstation 17.5 or later
Operating System: Ubuntu
Hard Disk: 20 GB, Split
Memory: 4096 MB
Network Adapter: NAT
Other Devices: 2 CPU cores, CD/DVD, USB Controller, Sound Card
Customize Hardware...
< Back
Finish
Cancel
vmware
Search
13:07
07-08-2025



Result

Successfully installed and configured VMware Workstation Player (Type-2 Hypervisor) on the host machine. A virtual machine was created and a guest operating system (Ubuntu 22.04 LTS) was successfully installed and configured. VMware Tools were installed to enhance VM performance.