

DATE:21.08.2025

EXPERIMENT – 14 Create a Virtual Hard Disk and allocate the storage using Vmware Workstation.

Aim:

To create and allocate a Virtual Hard Disk (VHD) for a virtual machine using VMware Workstation.

Procedure:

1. Open VMware Workstation on the host device.
2. Select the Virtual Machine in which the new hard disk is to be created.
3. Go to VM → Settings → Hardware tab.
4. Click Add → Hard Disk → Next.
5. Choose the disk type (SCSI / SATA / NVMe) and continue.
6. Select Create a new virtual disk and click Next.
7. Specify the disk size (e.g., 40 GB) and choose whether to:
 - Store as a single file, or
 - Split into multiple files.
8. Assign the file location and disk name, then finish the setup.
9. Start the Virtual Machine and open the Disk Management utility inside the OS.
10. Initialize the new disk, create a partition, and format it (NTFS/EXT4).
11. Verify that the allocated virtual disk is now available for use.

Output:



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:

No drives available

☐

Installer disc image file (iso):

Browse...

☒

I will install the operating system later.

The virtual machine will be created with a blank hard disk.

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Cancel

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

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Cancel

New Virtual Machine Wizard

Name the Virtual Machine

What name would you like to use for this virtual machine?

Virtual machine name:

Ubuntu

Location:

C:\Users\RACHITHA\Documents\Virtual Machines\Ubuntu

Browse...

The default location can be changed at Edit > Preferences.

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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

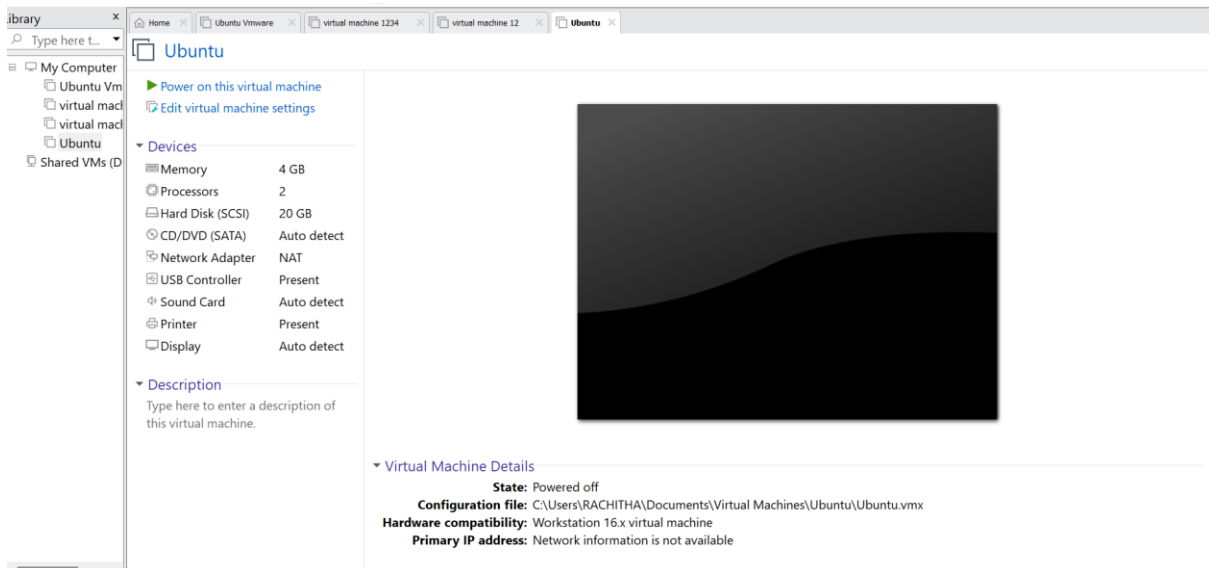
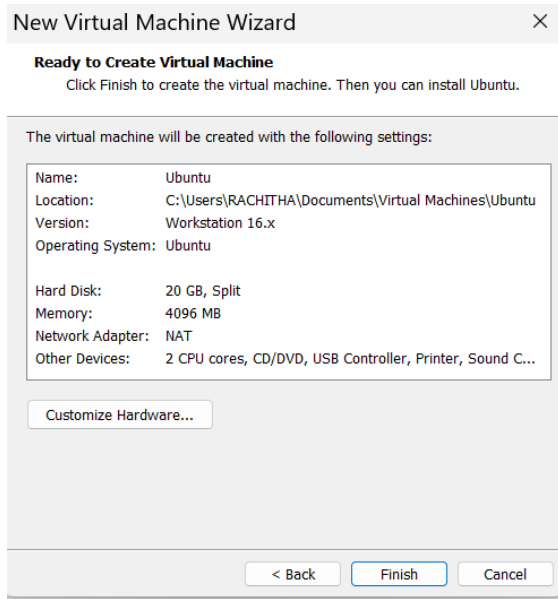
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

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Cancel



Result:

A Virtual Hard Disk (VHD) was successfully created and storage was allocated to the virtual machine in VMware Workstation. The disk was initialized, partitioned, and formatted, making it ready for data storage.