EXP 9: CREATE A VIRTUAL HARD DISK AND ALLOCATE THE STORAGE USING VM WARE WORKSTATION.

AIM

To create a **virtual hard disk** and allocate storage to a virtual machine using **VMware Workstation**.

REQUIREMENTS

Hardware Requirements

- Processor: Intel / AMD Processor
- RAM: Minimum 4 GB
- Hard Disk: Minimum 50 GB free space

Software Requirements

- Host Operating System: Windows / Linux
- Type-2 Hypervisor: VMware Workstation
- Existing Virtual Machine

PROCEDURE

STEP 1: Open **VMware Workstation** on the host system.

STEP 2: Select an existing virtual machine from the Library.

STEP 3: Click **Edit virtual machine settings**.

STEP 4: Click **Add** to add new hardware.

STEP 5: Select **Hard Disk** and click **Next**.

STEP 6: Choose **SCSI** as the disk type and click **Next**.

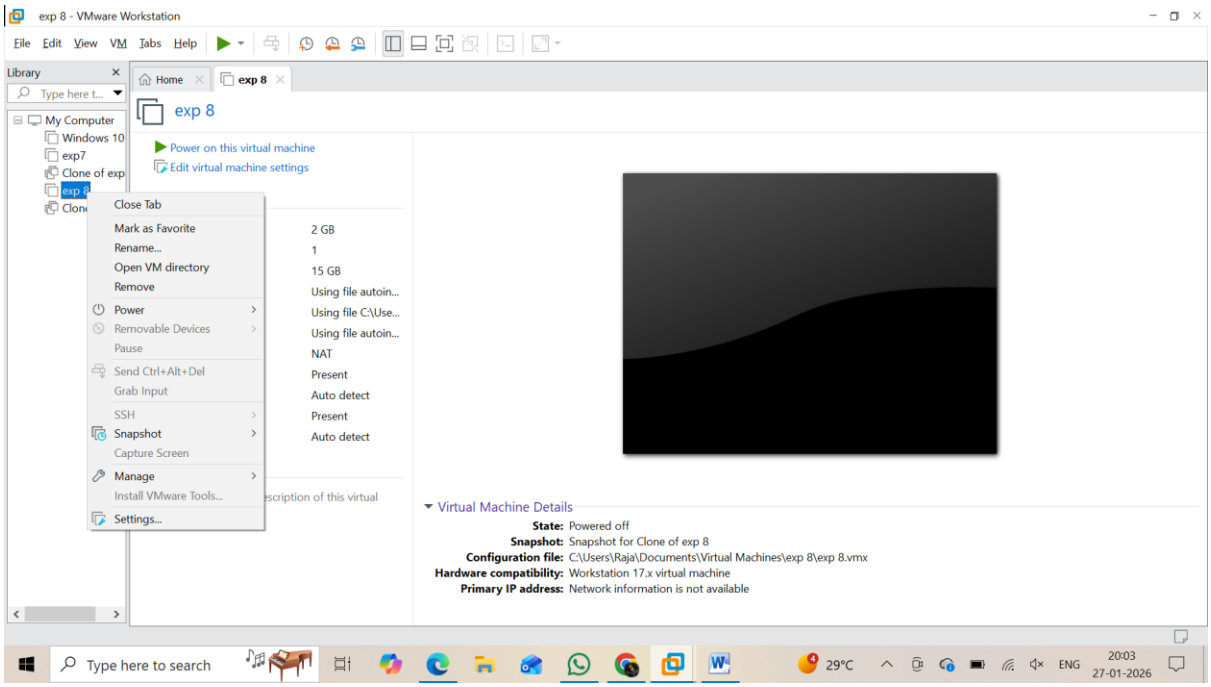
STEP 7: Select **Create a new virtual disk** and click **Next**.

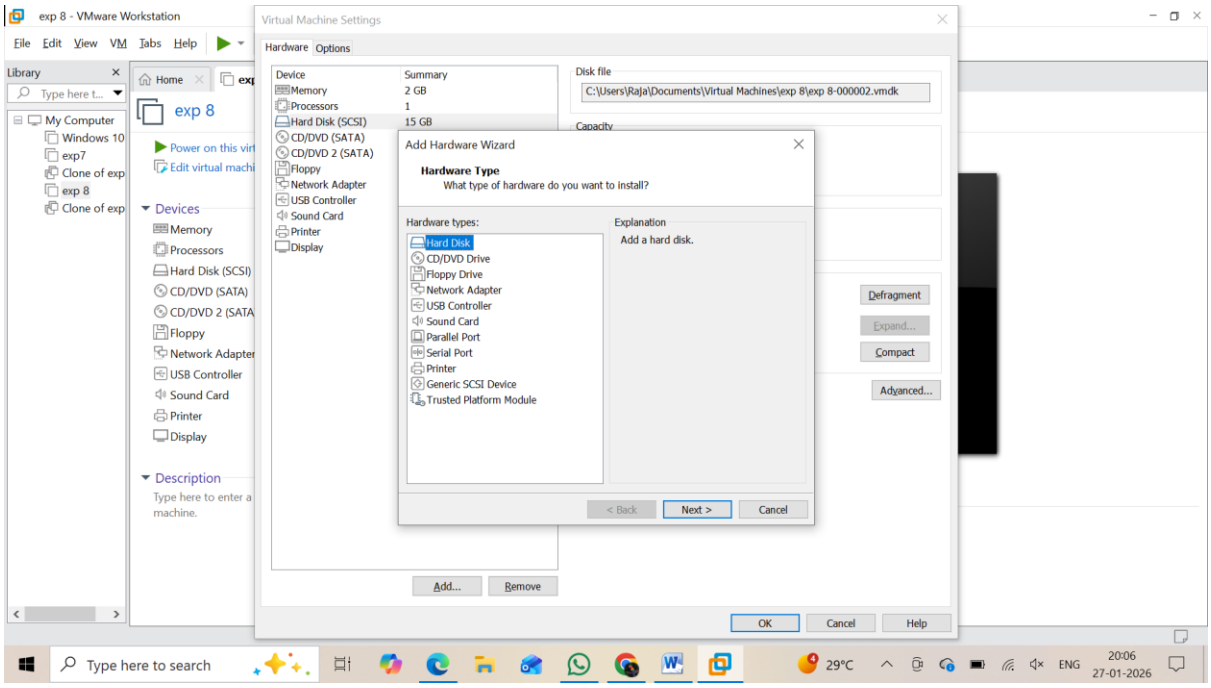
STEP 8: Specify the disk size and select **Store virtual disk as a single file**.

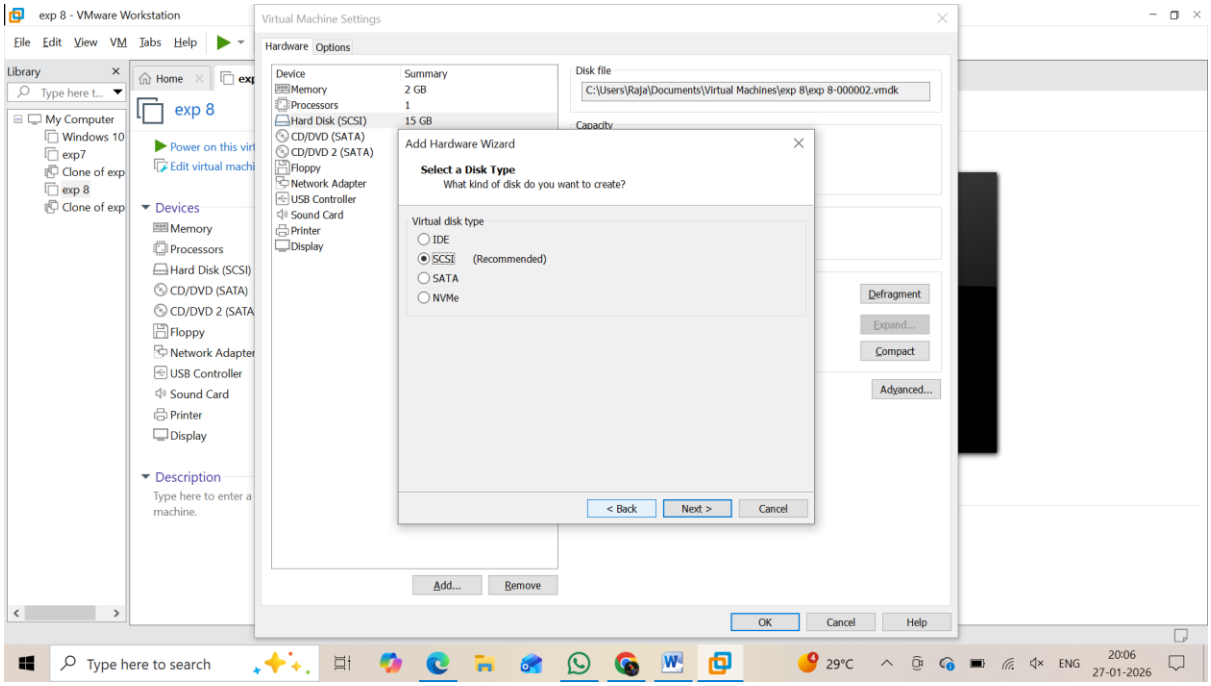
STEP 9: Click **Finish** to create the virtual hard disk.

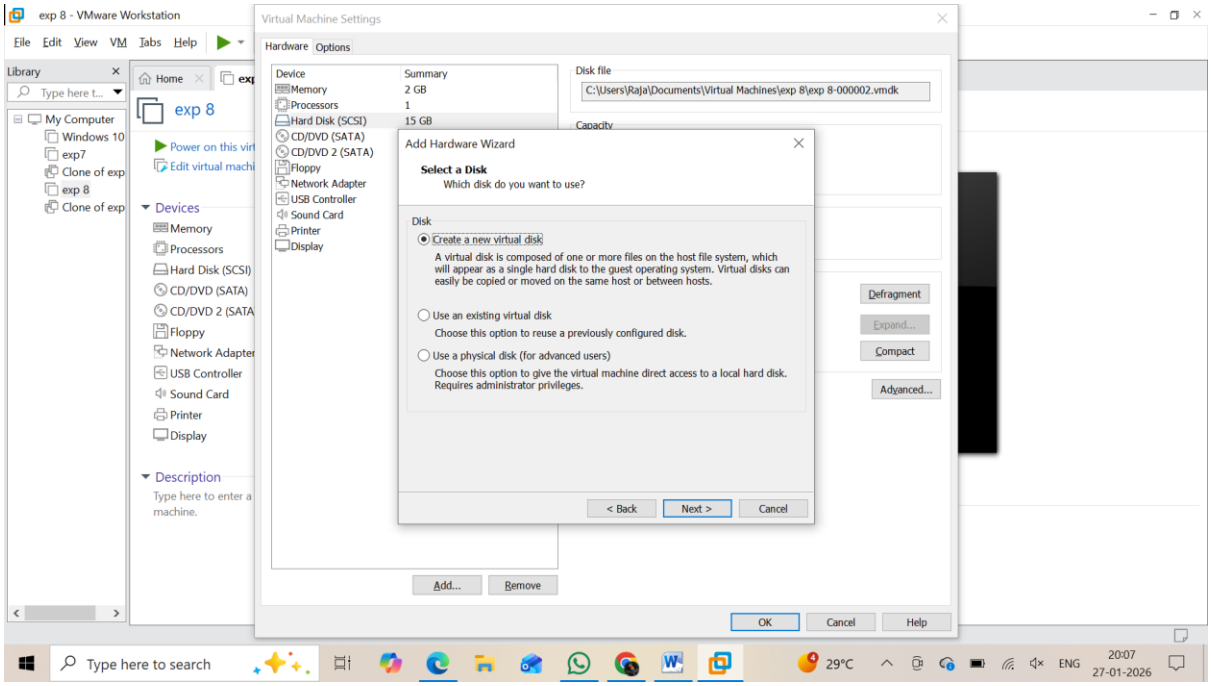
STEP 10: Power on the virtual machine.

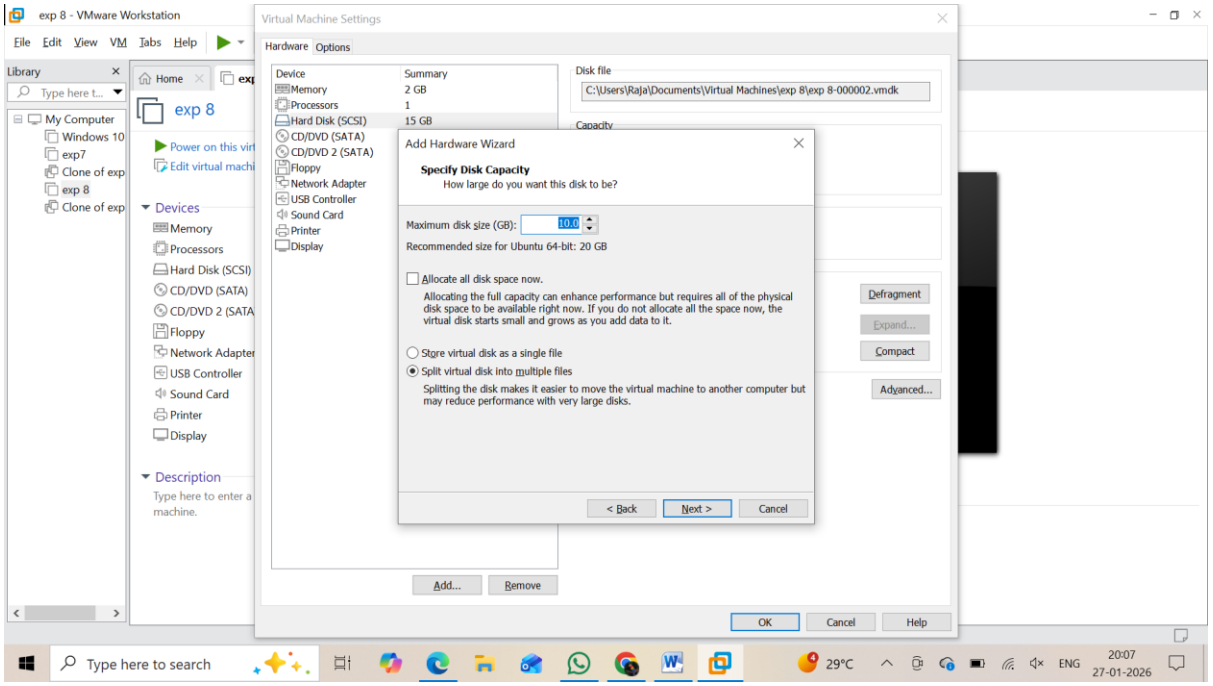
Output :

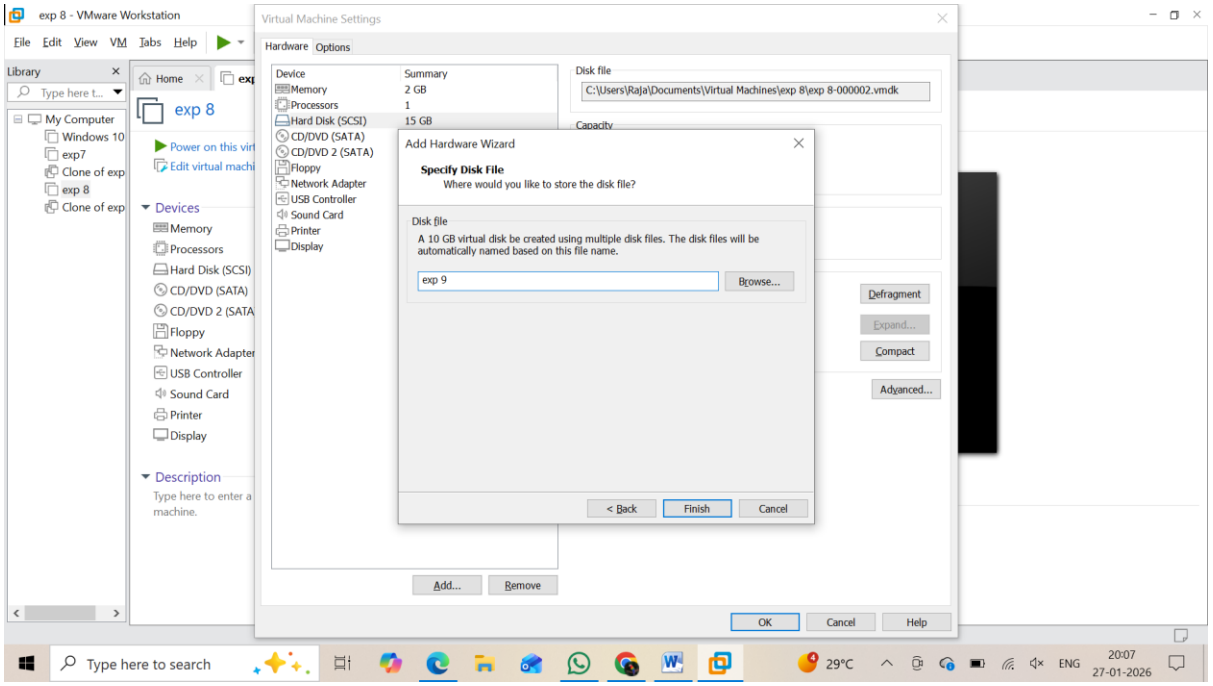

exp 8 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Windows 10
exp7
Clone of exp
exp 8
Clone
Home
exp 8
exp 8
Power on this virtual machine
Edit virtual machine settings
Close Tab
Mark as Favorite
Rename...
Open VM directory
Remove
Power
Removable Devices
Pause
Send Ctrl+Alt+Del
Grab Input
SSH
Snapshot
Capture Screen
Manage
Install VMware Tools...
Settings...
2 GB
1
15 GB
Using file autoin...
Using file C:\Use...
Using file autoin...
NAT
Present
Auto detect
Present
Auto detect
Virtual Machine Details
State: Powered off
Snapshot: Snapshot for Clone of exp 8
Configuration file: C:\Users\Raja\Documents\Virtual Machines\exp 8\exp 8.vmx
Hardware compatibility: Workstation 17.x virtual machine
Primary IP address: Network information is not available
Type here to search
29°C
ENG
20:03
27-01-2026

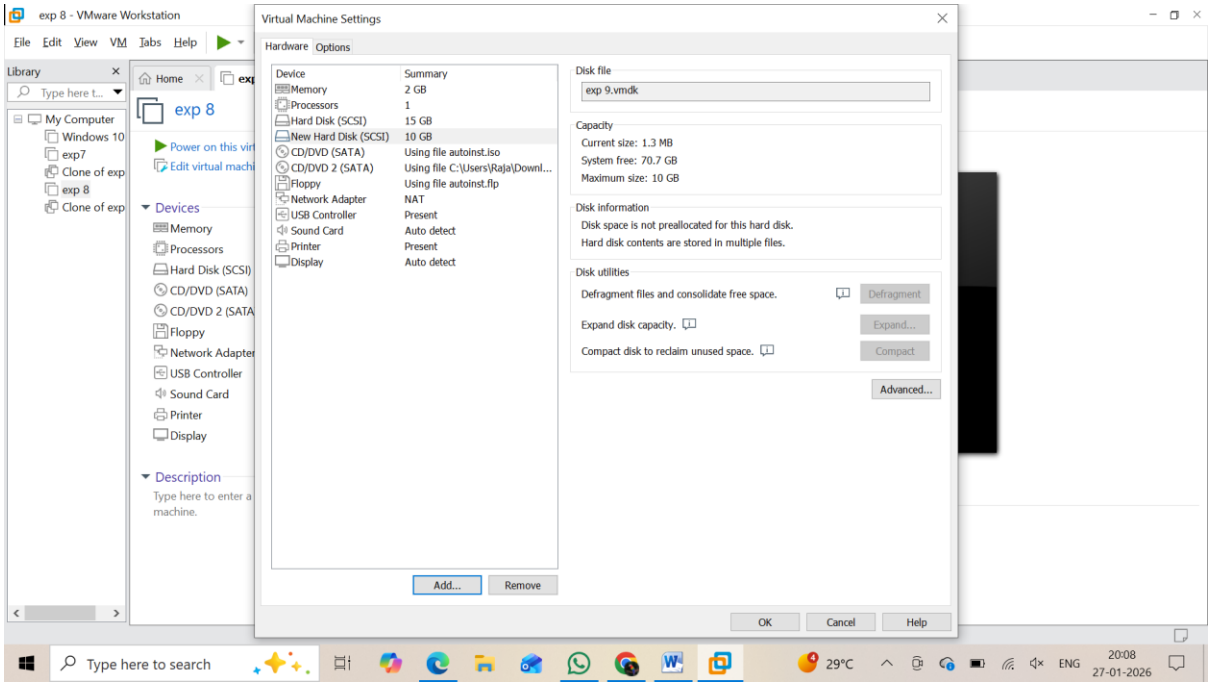

exp 8 - VMware Workstation
Virtual Machine Settings
Hardware
Options
Device
Summary
Memory
2 GB
Processors
1
Hard Disk (SCSI)
15 GB
CD/DVD (SATA)
CD/DVD 2 (SATA)
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Disk file
C:\Users\Raja\Documents\Virtual Machines\exp 8\exp 8-000002.vmdk
Capacity
Add Hardware Wizard
Hardware Type
What type of hardware do you want to install?
Hardware types:
Hard Disk
CD/DVD Drive
Floppy Drive
Network Adapter
USB Controller
Sound Card
Parallel Port
Serial Port
Printer
Generic SCSI Device
Trusted Platform Module
Explanation
Add a hard disk.
< Back
Next >
Cancel
Defragment
Expand...
Compact
Advanced...
Add...
Remove
OK
Cancel
Help
Devices
Description
Type here to search
29°C
ENG
20:06
27-01-2026

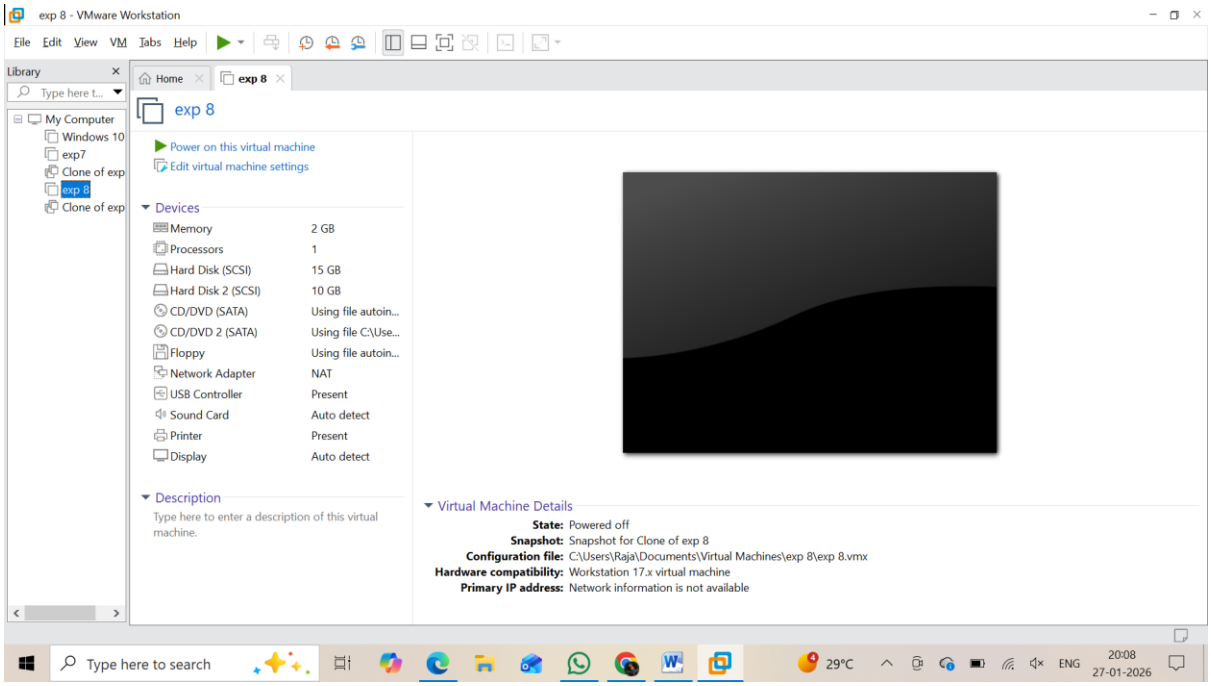

exp 8 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Windows 10
exp7
Clone of exp
exp 8
Clone of exp
Home
exp 8
Power on this virt
Edit virtual machi
Devices
Memory
Processors
Hard Disk (SCSI)
CD/DVD (SATA)
CD/DVD 2 (SATA
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Description
Type here to enter a machine.
Virtual Machine Settings
Hardware Options
Device
Summary
Memory 2 GB
Processors 1
Hard Disk (SCSI) 15 GB
CD/DVD (SATA)
CD/DVD 2 (SATA)
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Disk file
C:\Users\Raja\Documents\Virtual Machines\exp 8\exp 8-000002.vmdk
Capacity
Defragment
Expand...
Compact
Advanced...
Add...
Remove
OK
Cancel
Help
Add Hardware Wizard
Select a Disk Type
What kind of disk do you want to create?
Virtual disk type
IDE
SCSI (Recommended)
SATA
NVMe
< Back
Next >
Cancel
Type here to search
29°C
ENG
20:06
27-01-2026


exp 8 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Windows 10
exp7
Clone of exp
exp 8
Clone of exp
Home
exp 8
Power on this virt
Edit virtual machi
Devices
Memory
Processors
Hard Disk (SCSI)
CD/DVD (SATA)
CD/DVD 2 (SATA
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Description
Type here to enter a machine.
Virtual Machine Settings
Hardware Options
Device
Summary
Memory 2 GB
Processors 1
Hard Disk (SCSI) 15 GB
CD/DVD (SATA)
CD/DVD 2 (SATA)
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Disk file
C:\Users\Raja\Documents\Virtual Machines\exp 8\exp 8-000002.vmdk
Capacity
Defragment
Expand...
Compact
Advanced...
Add...
Remove
OK
Cancel
Help
Add Hardware Wizard
Select a Disk
Which disk do you want to use?
Disk
Create a new virtual disk
A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.
Use an existing virtual disk
Choose this option to reuse a previously configured disk.
Use a physical disk (for advanced users)
Choose this option to give the virtual machine direct access to a local hard disk. Requires administrator privileges.
< Back
Next >
Cancel
Type here to search
29°C
ENG
20:07
27-01-2026


exp 8 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Windows 10
exp7
Clone of exp
exp 8
Clone of exp
Home
exp 8
Power on this virt
Edit virtual machi
Devices
Memory
Processors
Hard Disk (SCSI)
CD/DVD (SATA)
CD/DVD 2 (SATA
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Description
Type here to enter a machine.
Virtual Machine Settings
Hardware Options
Device
Summary
Memory 2 GB
Processors 1
Hard Disk (SCSI) 15 GB
CD/DVD (SATA)
CD/DVD 2 (SATA)
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Add...
Remove
Disk file
C:\Users\Raja\Documents\Virtual Machines\exp 8\exp 8-000002.vmdk
Capacity
Defragment
Expand...
Compact
Advanced...
OK
Cancel
Help
Add Hardware Wizard
Specify Disk Capacity
How large do you want this disk to be?
Maximum disk size (GB): 10.0
Recommended size for Ubuntu 64-bit: 20 GB
Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.
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.
< Back
Next >
Cancel
Type here to search
29°C
ENG
20:07
27-01-2026


exp 8 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Windows 10
exp7
Clone of exp
exp 8
Clone of exp
Home
exp 8
Power on this virt
Edit virtual machi
Devices
Memory
Processors
Hard Disk (SCSI)
CD/DVD (SATA)
CD/DVD 2 (SATA
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Description
Type here to enter a machine.
Virtual Machine Settings
Hardware Options
Device
Summary
Memory 2 GB
Processors 1
Hard Disk (SCSI) 15 GB
CD/DVD (SATA)
CD/DVD 2 (SATA)
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Add...
Remove
Disk file
C:\Users\Raja\Documents\Virtual Machines\exp 8\exp 8-000002.vmdk
Capacity
Defragment
Expand...
Compact
Advanced...
OK
Cancel
Help
Add Hardware Wizard
Specify Disk File
Where would you like to store the disk file?
Disk file
A 10 GB virtual disk be created using multiple disk files. The disk files will be automatically named based on this file name.
exp 9
Browse...
< Back
Finish
Cancel
Type here to search
29°C
ENG
20:07
27-01-2026





RESULT

Thus, a **virtual hard disk was successfully created and storage was allocated** using **VMware Workstation**.