

DATE:21.08.2025

EXPERIMENT – 13 Create a Virtual Machine with 1 CPU, 2GB RAM and 15GB storage disk using a Type 2 Virtualization Software using Vmware workstation.

Aim:

To create and configure a Virtual Machine with 1 CPU, 2 GB RAM, and 15 GB storage using a Type-2 Virtualization Software (VMware Workstation).

Procedure

1. Install and launch VMware Workstation on the host operating system.
2. Click File → New Virtual Machine (Ctrl+N).
3. In the wizard:
 - Select Typical (recommended) and click Next.
 - Choose Installer disc image (ISO) or Install later.
4. Assign a name to the VM and choose the storage location.
5. Set the Virtual Disk Size to 15 GB and select *Store virtual disk as a single file*.
6. Click on Customize Hardware:
 - Set Processors: 1 CPU.
 - Set Memory (RAM): 2048 MB (2 GB).
 - Verify Hard Disk: 15 GB.
 - Attach the OS ISO to the CD/DVD drive if installing an operating system.
7. Click Finish to create the Virtual Machine.
8. Power on the VM to start the OS installation.
9. Verify the configured resources (CPU, RAM, Disk) from the VM settings.

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.

Help

< Back

Next >

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

Help

< Back

Next >

Cancel

New Virtual Machine Wizard

Name the Virtual Machine

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

Virtual machine name:

virtual machine 1234

Location:

C:\Users\RACHITHA\Documents\Virtual Machines\virtual machi

Browse...

The default location can be changed at Edit > Preferences.

< Back

Next >

Cancel

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):

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

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:

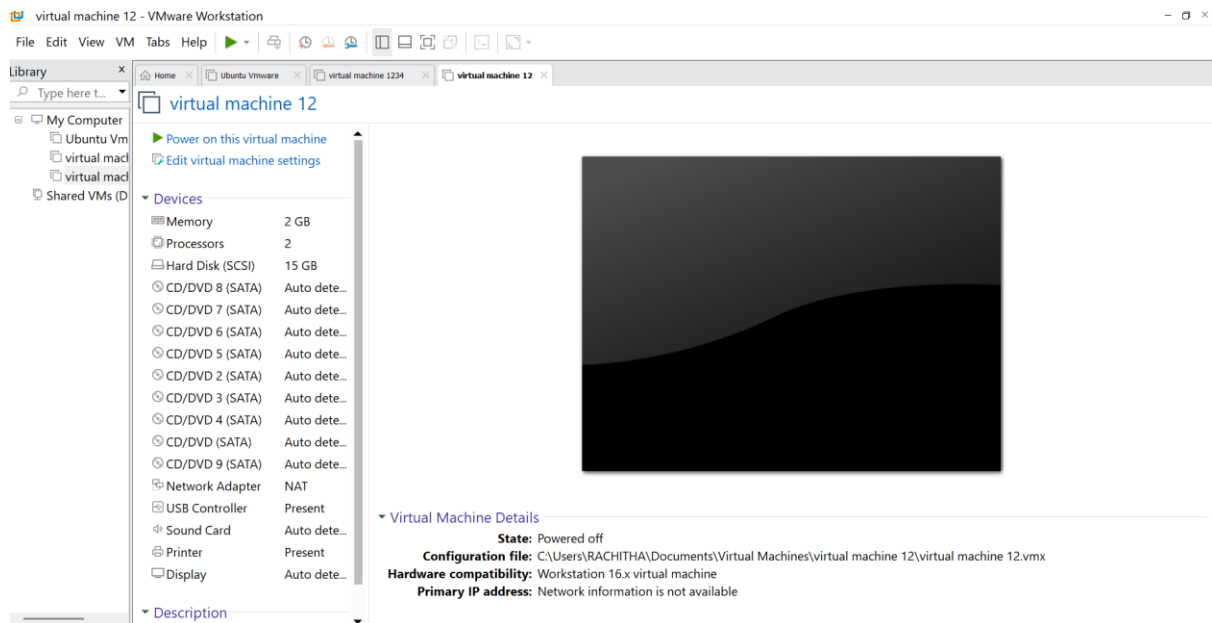
Name:	virtual machine 12
Location:	C:\Users\RACHITHA\Documents\Virtual Machines\virtua...
Version:	Workstation 16.x
Operating System:	Ubuntu
Hard Disk:	15 GB, Split
Memory:	2048 MB
Network Adapter:	NAT
Other Devices:	2 CPU cores, 9 CD/DVDs, USB Controller, Printer, Sound...

Customize Hardware...

< Back

Finish

Cancel



Result:

A Virtual Machine with 1 CPU, 2 GB RAM, and 15 GB storage was successfully created using VMware Workstation (Type-2 Hypervisor). The VM is ready for operating system installation and execution.