DATE:25.08.2025

EXPERIMENT – 07 Create a Virtual Machine with 1 CPU, 2GB RAM and 15GB storage disk using a Type 2 Virtualization Software, using virtual box.

Aim:

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

Procedure:

1. Install VirtualBox:
   Download and install Oracle VirtualBox on your host system.

2. Launch VirtualBox:
   Open the VirtualBox Manager and click on New to create a new VM.

3. Name & OS Selection:

   o Enter VM name (e.g., *Ubuntu-VM* or *Windows-VM*).

   o Select Type: Windows/Linux.

   o Choose version (e.g., Ubuntu 64-bit or Windows 10).

4. Allocate Memory (RAM):

   o Assign 2048 MB (2GB) RAM.

5. CPU Configuration:

   o In Processor settings, allocate 1 CPU core.

6. Create Virtual Hard Disk:

   o Select Create a virtual hard disk now.

   o Choose format as VDI (VirtualBox Disk Image).

   o Allocate 15 GB storage (dynamically allocated or fixed size).

7. Mount OS ISO:

   o Go to VM Settings → Storage → Attach the OS ISO image (Linux/Windows).

8. Start the VM:

   o Boot the VM and proceed with OS installation.

Output:

Create Virtual Machine   ?   ✕

Virtual machine Name and Operating System

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name:	virtual machine 2 ✔
Folder:	📁 C:\Users\RACHITHA\VirtualBox VMs ⌄
ISO Image:	<not selected> ⌄
Edition:	⌄
Type:	Microsoft Windows ⌄
Version:	Windows 10 (64-bit) ⌄

☐ Skip Unattended Installation

ⓘ No ISO image is selected, the guest OS will need to be installed manually.

Help   Expert Mode   Back   Next   Cancel

Create Virtual Machine   ?   ✕

Hardware

You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.

Base Memory: 2048 MB
4 MB   16384 MB

Processors: 1
1 CPU   12 CPUs

☐ Enable EFI (special OSes only)

Help   Back   Next   Cancel

Create Virtual Machine

? ✕

Virtual Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select an existing one. Alternatively you can create a virtual machine without a virtual hard disk.

● Create a Virtual Hard Disk Now

Disk Size: ────────────────●──────────── 15.5 GB

4.00 MB   2.00 TB

☐ Pre-allocate Full Size

○ Use an Existing Virtual Hard Disk File

virtual machine 1.vdi (Normal, 50.00 GB)   ∨

○ Do Not Add a Virtual Hard Disk

Help   Back   Next   Cancel

Create Virtual Machine

? ✕

Summary

The following table summarizes the configuration you have chosen for the new virtual machine. When you are happy with the configuration press Finish to create the virtual machine. Alternatively you can go back and modify the configuration.
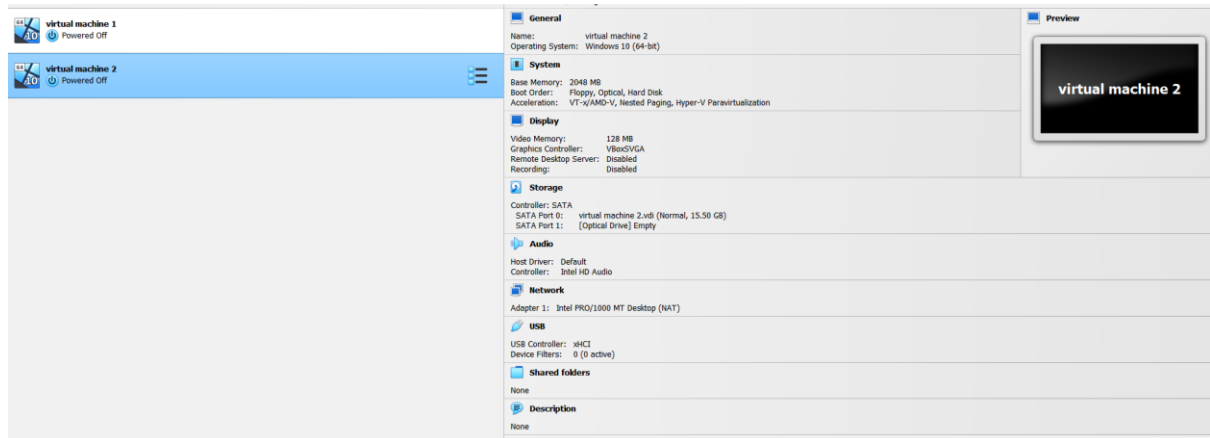
Machine Name and OS Type	
Machine Name	virtual machine 2
Machine Folder	C:/Users/RACHITHA/VirtualBox VMs/virtual machine 2
ISO Image	
Guest OS Type	Windows 10 (64-bit)
Hardware	
Base Memory	2048
Processor(s)	1
EFI Enable	false
Disk	
Disk Size	15.50 GB

Help   Back   Finish   Cancel

Result:

A Virtual Machine with 1 CPU, 2GB RAM, and 15GB storage disk was successfully created and configured using VirtualBox.