DATE:25.08.2025

EXPERIMENT – 08 Create a Virtual Hard Disk and allocate the storage using virtual box.

Aim:

To create a Virtual Hard Disk (VHD) and allocate storage for a Virtual Machine using VirtualBox.

Procedure:

1. Open VirtualBox:
   Launch Oracle VirtualBox on your host machine.

2. Create / Select VM:

   o If you are creating a new VM → click New.

   o If you already have a VM → select it and go to Settings → Storage.

3. Create Virtual Hard Disk:

   o In the VM creation wizard, choose Create a virtual hard disk now.

   o Select disk type:

      ▪ VDI (VirtualBox Disk Image) – default format.

      ▪ (Other options: VHD, VMDK).

4. Allocate Storage:

   o Choose Dynamically allocated (grows as you use) OR Fixed size (reserves full space immediately).

   o Enter storage size (e.g., 15 GB).

5. Attach Virtual Hard Disk:

   o The created disk will be automatically attached to the VM.

   o You can view/edit it under Settings → Storage → Controller: SATA.

6. Finalize Setup:

   o Start the VM and proceed with OS installation, which will now use the allocated virtual hard disk.

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.
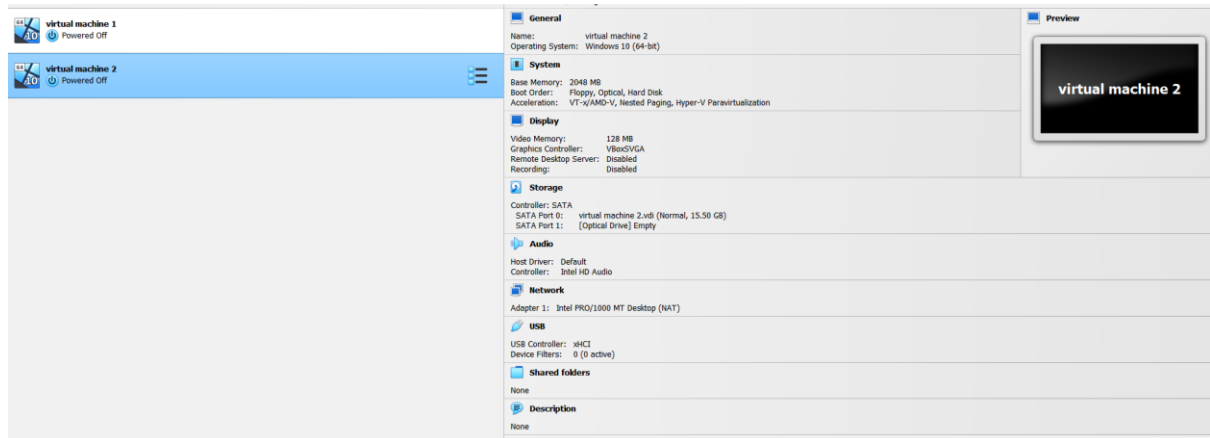
Machine Name and OS Type	
Machine Name	virtual machine 2
Machine Folder	C:/Users/RACHITHA/VirtualBox VMs/virtual machine 2
ISO Image	
Guest OS Type	Windows 10 (64-bit)
Hardware	
Base Memory	2048
Processor(s)	1
EFI Enable	false
Disk	
Disk Size	15.50 GB

Help   Back   Finish   Cancel

Result:

A Virtual Hard Disk was successfully created and allocated (e.g., 15GB) for use in a Virtual Machine using VirtualBox.