DAY 14   **DATE:14/05/2025**

NAME: ANNIE JOHN
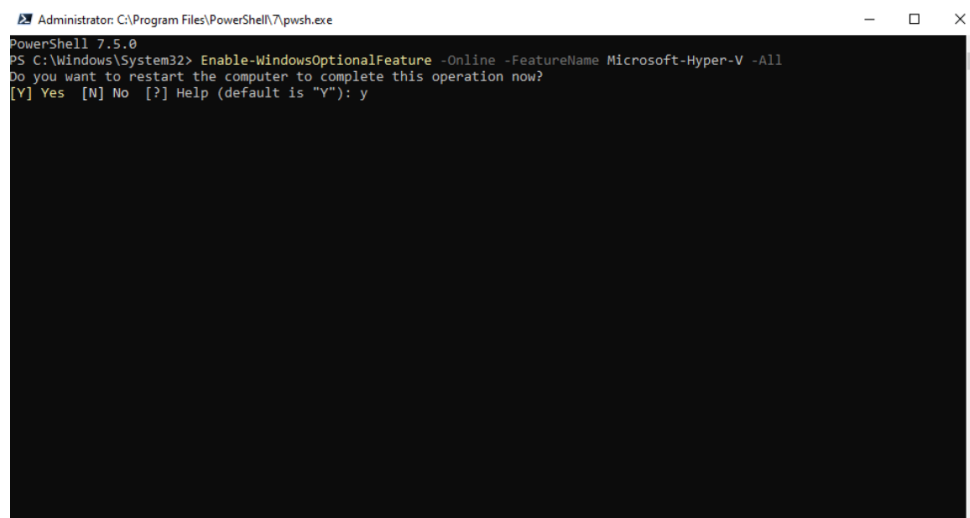
USER ID:27739

Batch: 25VID0885_DC_Batch4

TITLE: HYPERVISOR INSTALLATION, CREATING VM IN HYPER -V AND DISK MANAGEMENT - EXPANSION AND CREATION OF VOLUME
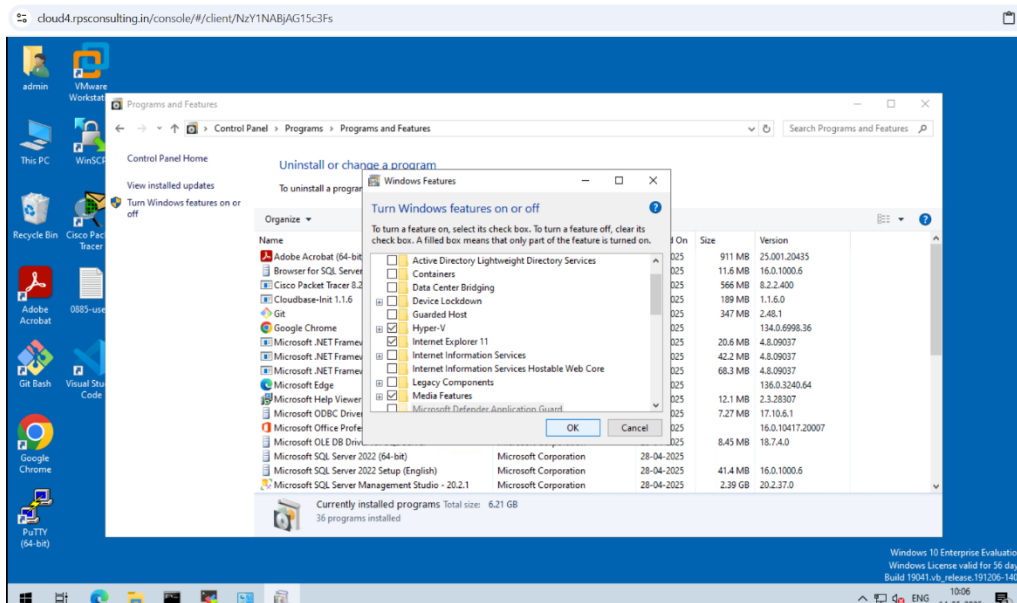
> ### Installation of hypervisor
> A hypervisor is a software layer that enables virtualization by allowing multiple virtual machines (VMs) to run on a single physical machine. This document outlines the steps to install:
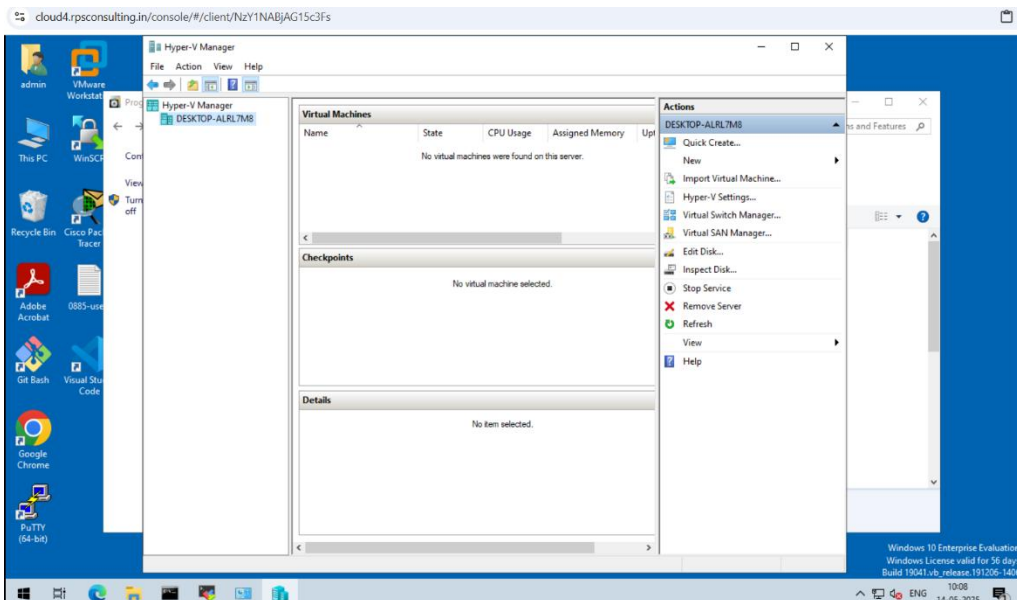>
> - **Step by step process**
>   1. In cloud lab open PowerShell as run as administrator and run the command->Type Y and restart.

>   2. Go to control panel ->programs->Programs and feature ->click on turn windows features on or off->select Hyper -V ->Click ok.
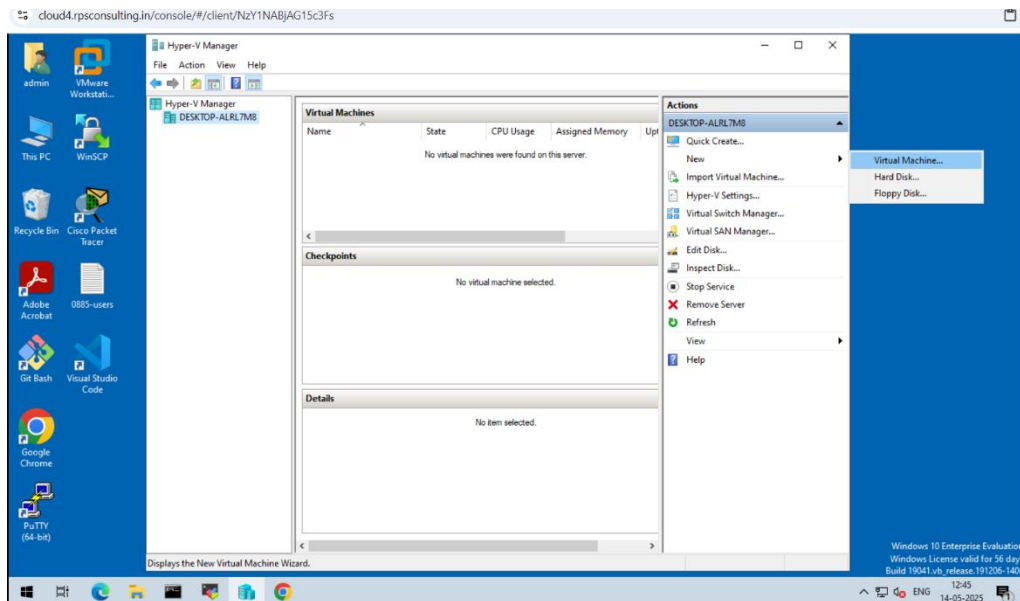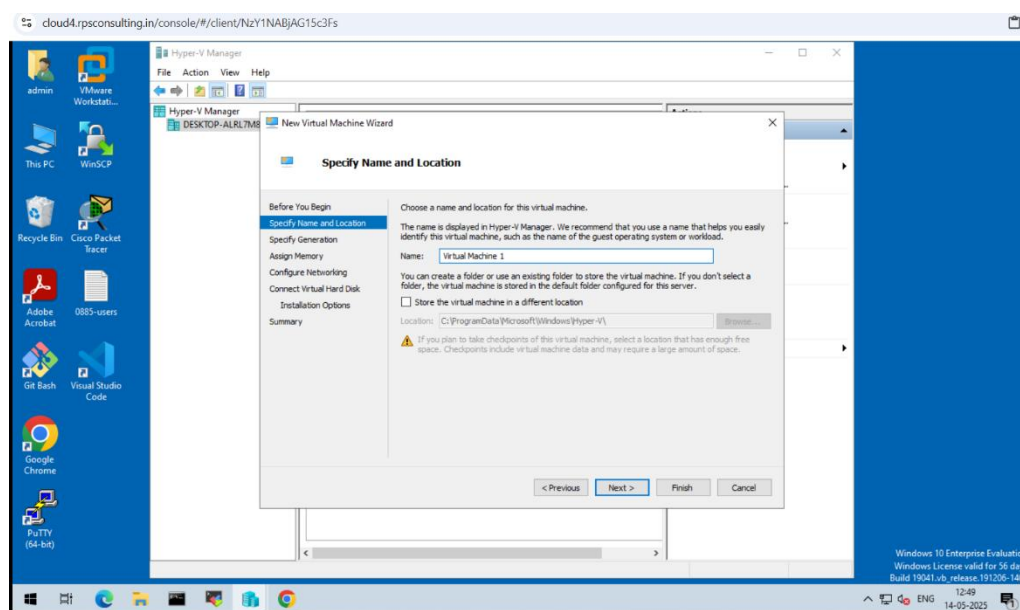
3. Open Hyper -V Manager in system.

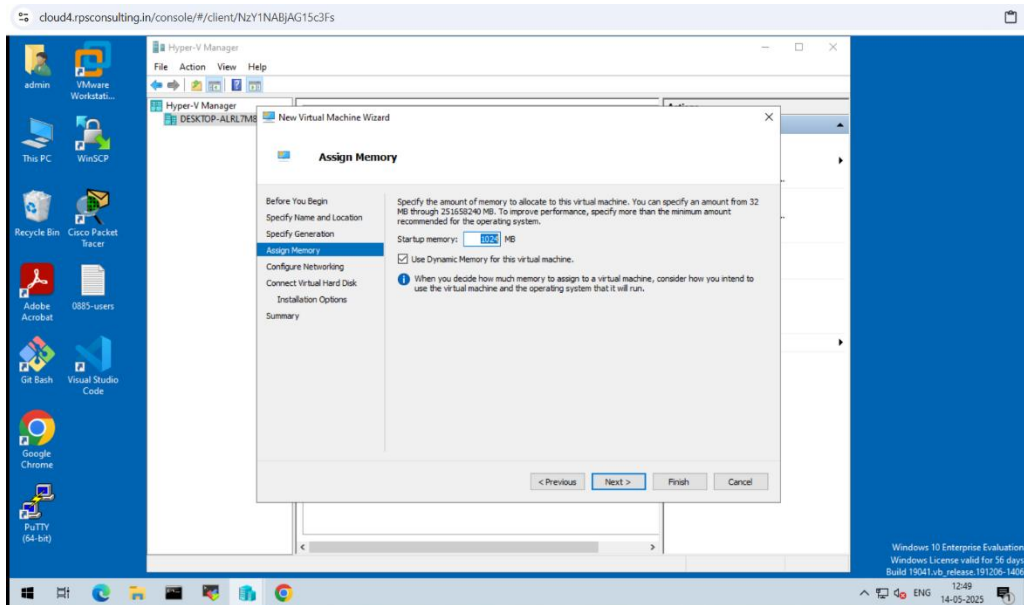> **Creating Virtual Machine in Hyper -V**
>   1. Open Hyper -V Manager in system->Click on new
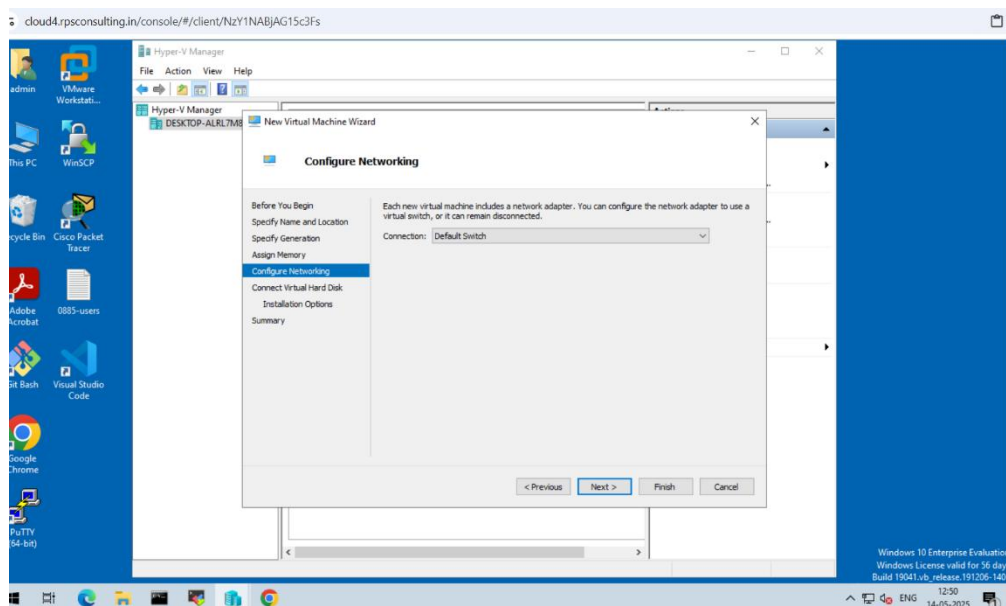>   ->Virtual Machine.

2. In virtual machine wizard first click next then give a name for virtual machine.
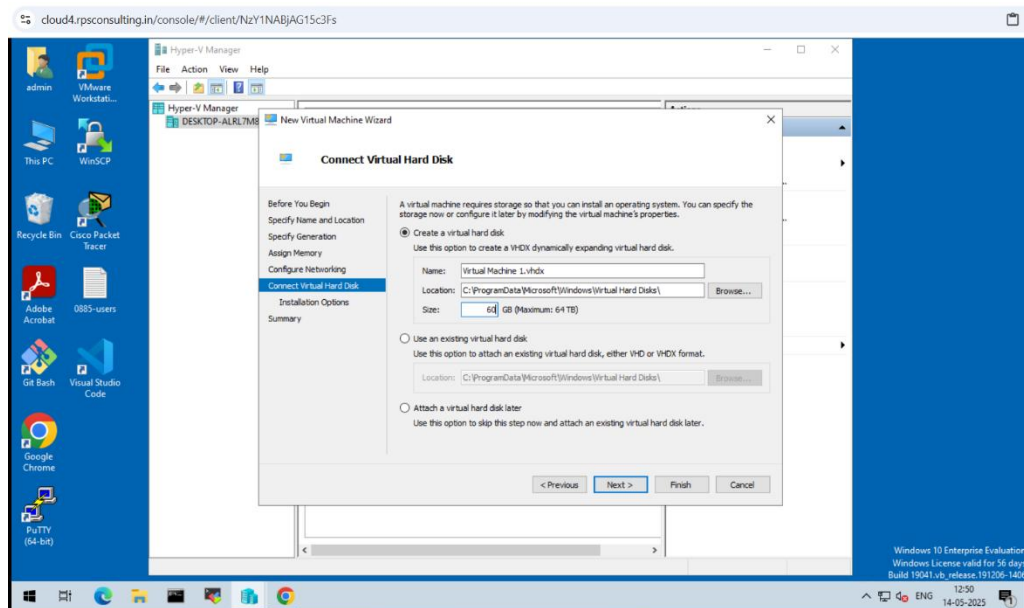

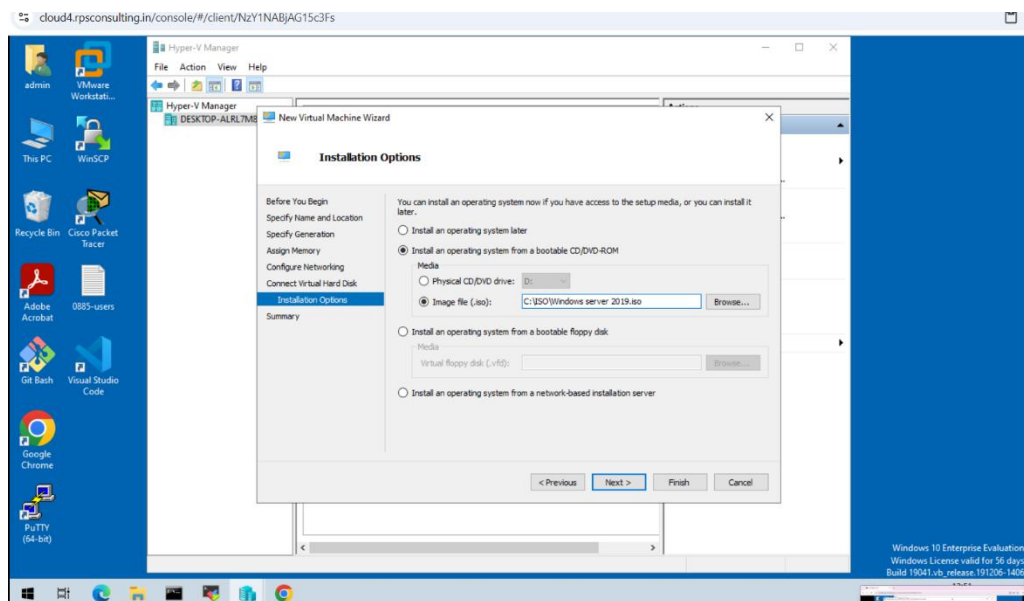3. Select Generation 1->Next->Assign Memory ->click next.

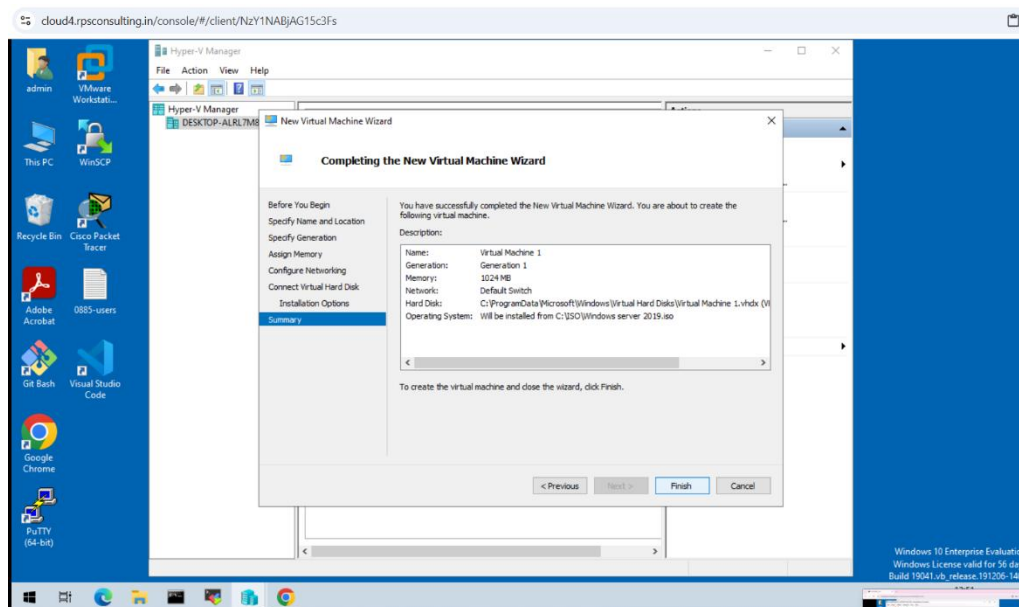4. In configure networking Select Default switch ->click next.

5. In connect virtual disk wizard ->select create a virtual hard disk->give size and click next.
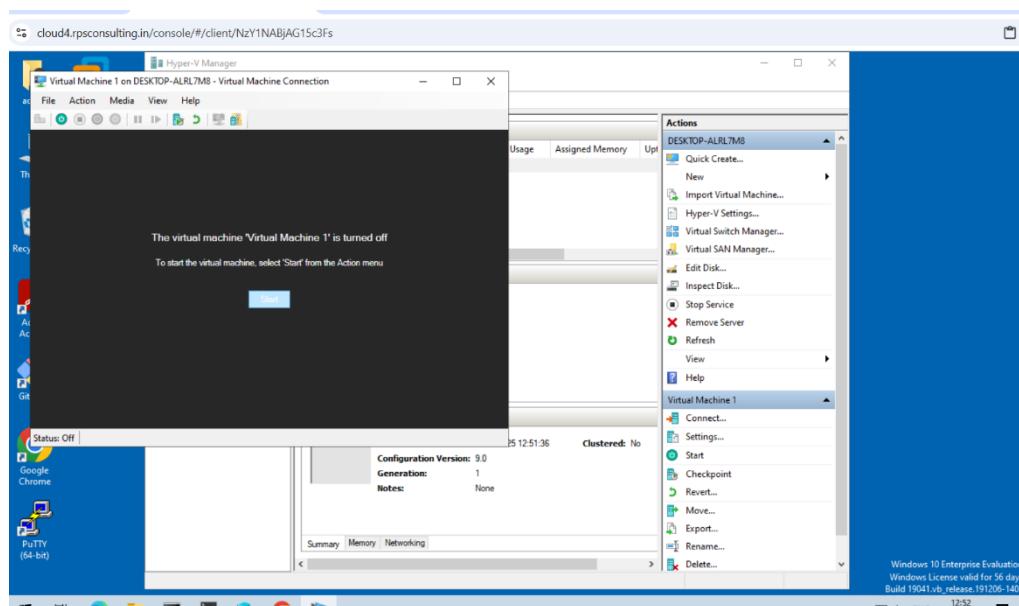
6. In Installation option->Install an OS, choose an iso file (e.g.: windows server 2019.iso)->click Next.
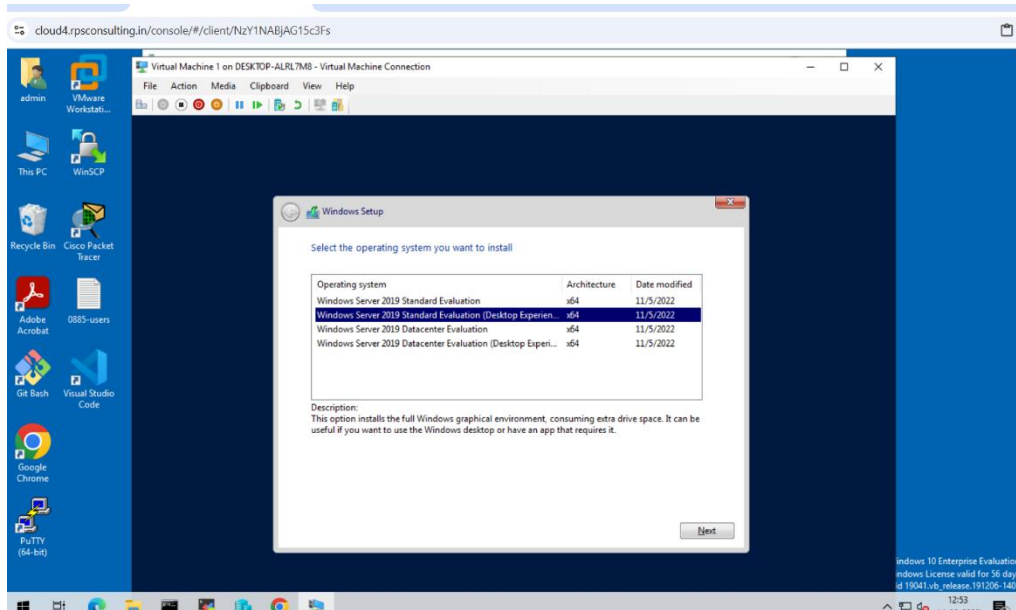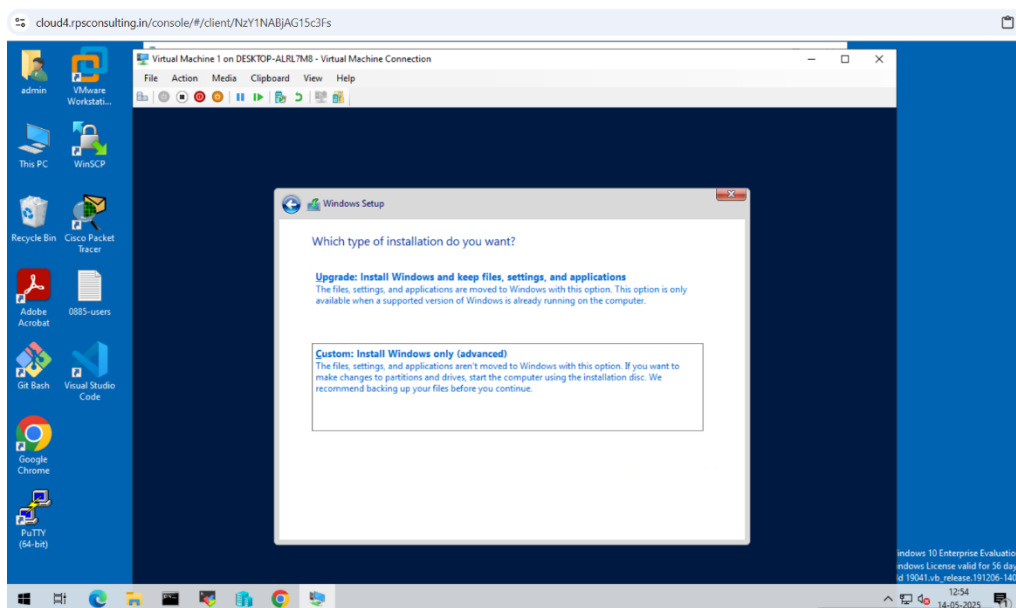

7. Click Finish.

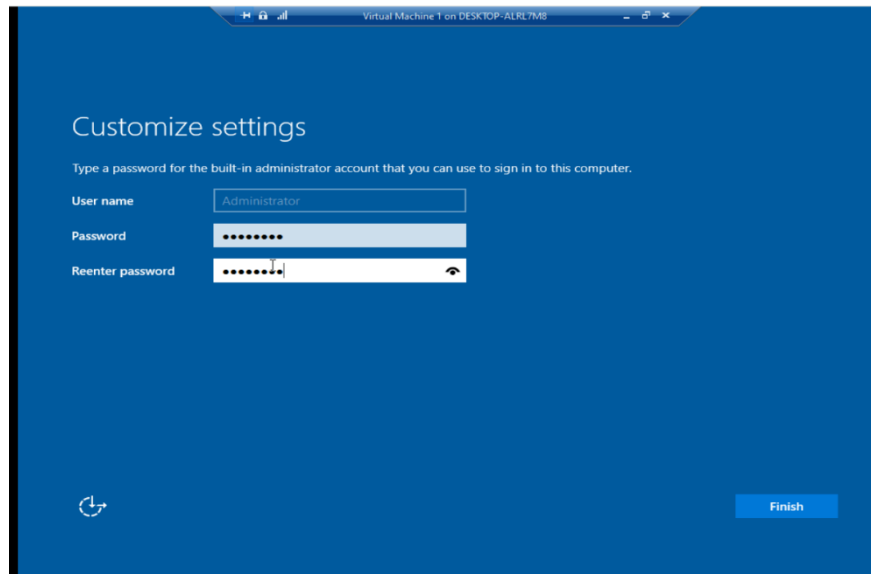8. In Hyper-V manager->Click on connect->Start.

9. Choose the language->click next->choose the OS->Next.

10. Accept the terms and conditions->click next->Select custom install (Same process when we installed VM in VMware workstation).
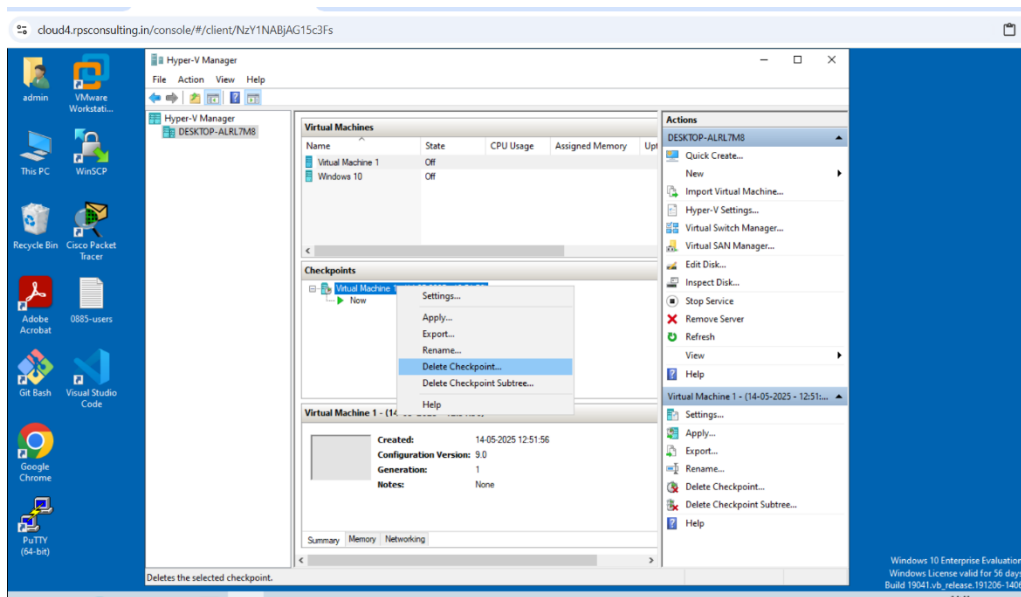

11. Set the password and finish.

> ## Disk Management – Expansion and Creating new disk volume
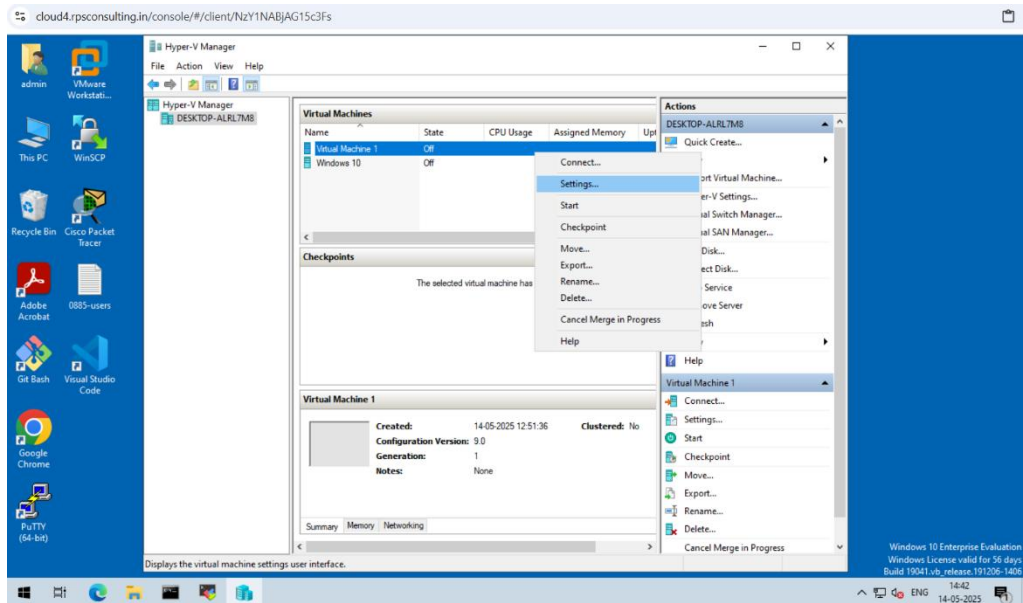
> ### I.   Expansion of Disk

1. First check if there any checkpoint for the VM, if it is we can't expand it so delete the checkpoint.
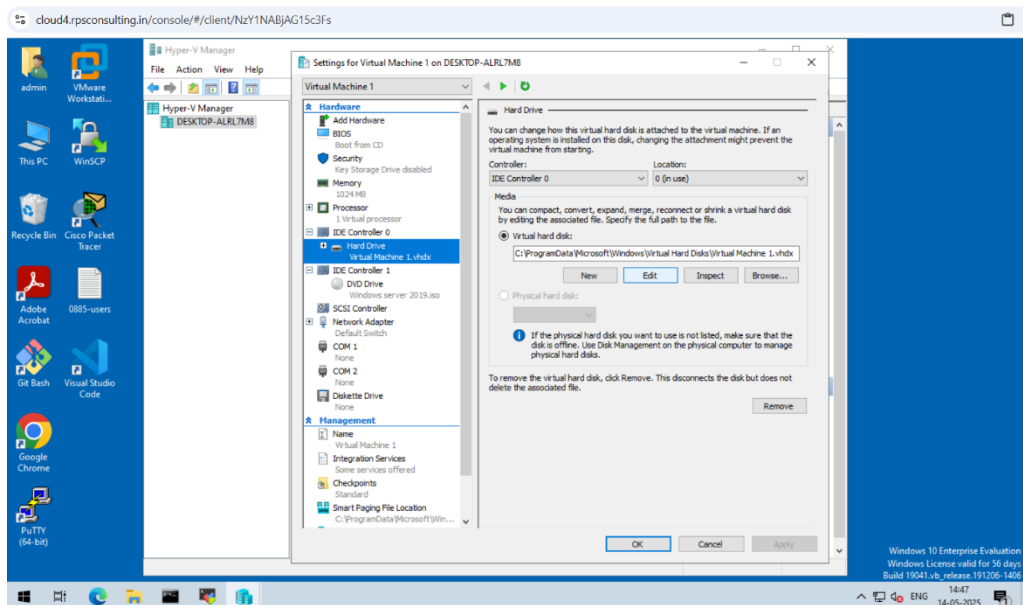

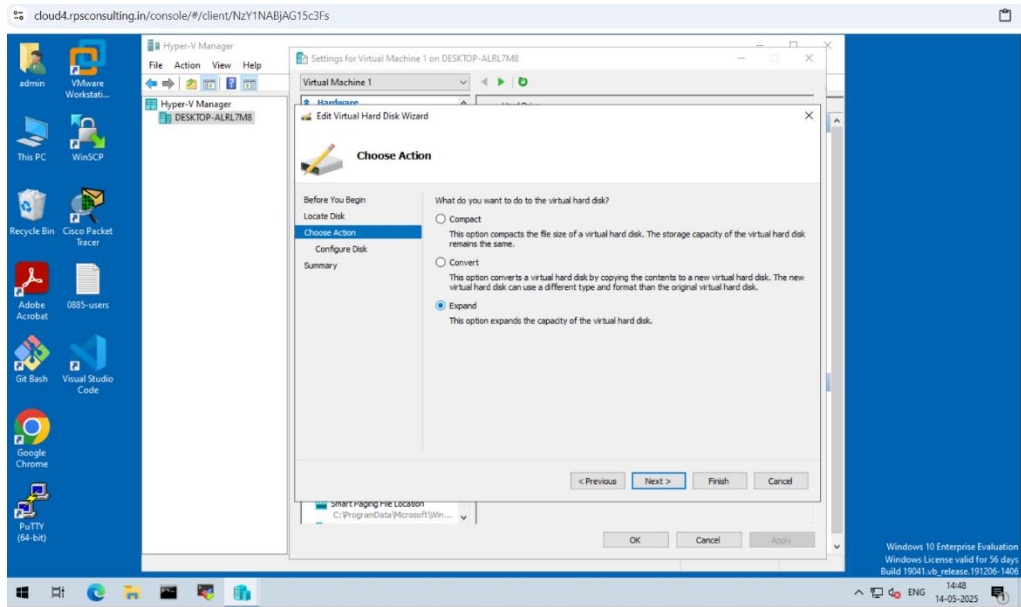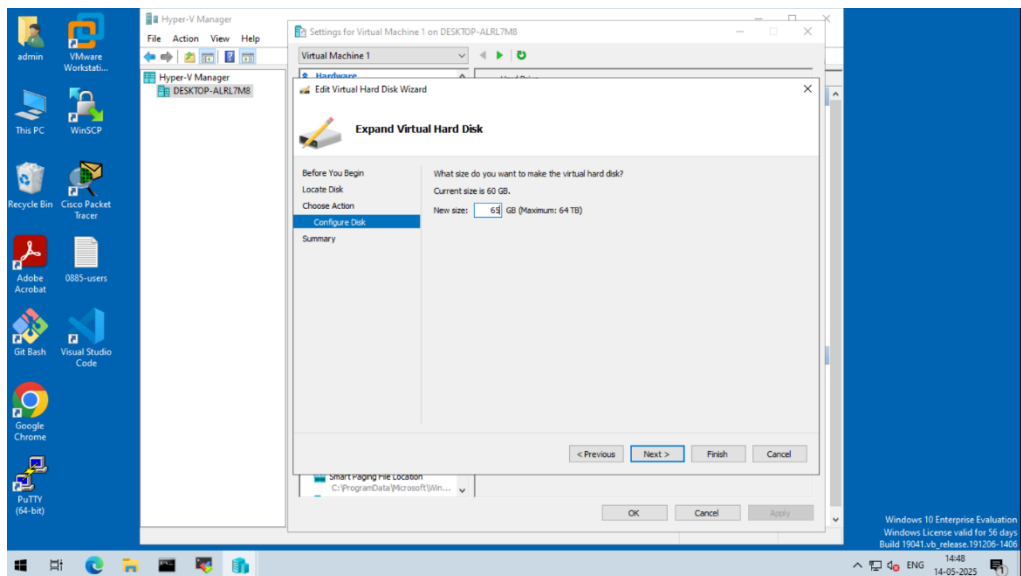
2. Right click on VM->go to settings.
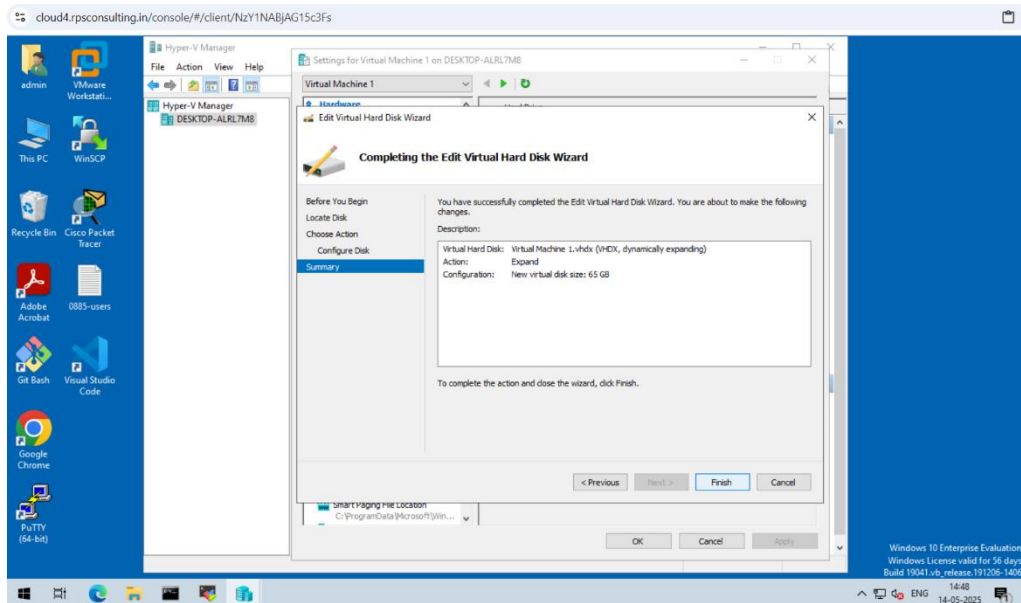
3. Click on Hard drive->click edit.

4. In Virtual hard disk wizard click next until you see this tab ->select expand.
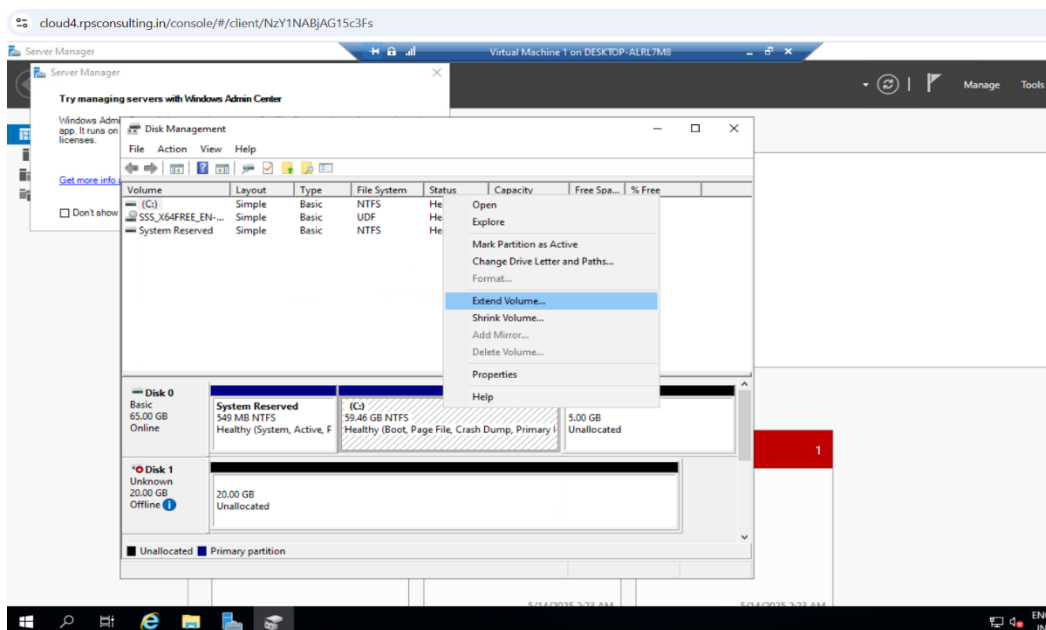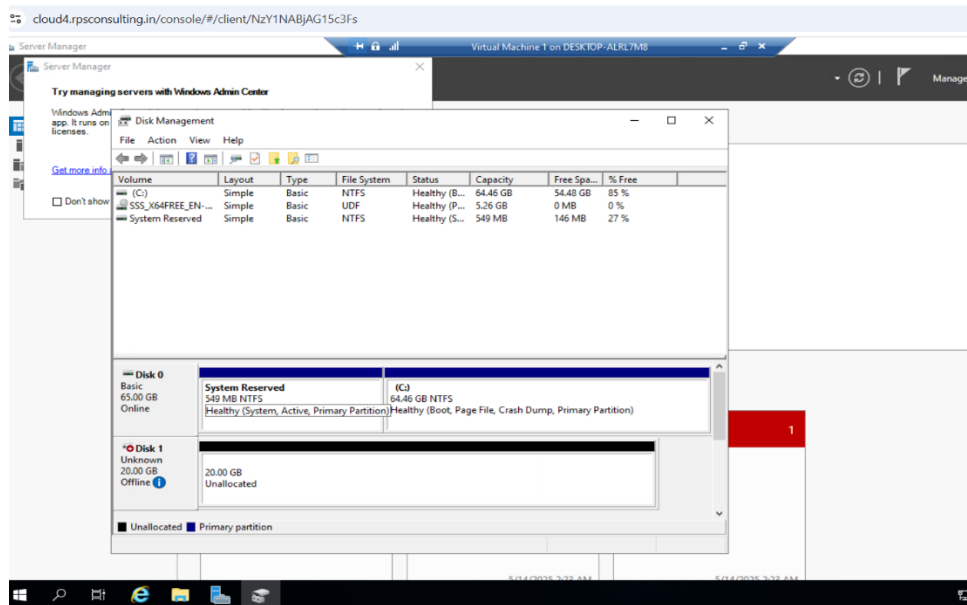
5. Give size.

6. Click Finish.

7. Start the VM and go to Create and format hard disk partitions ->right click on c drive for extend volume.
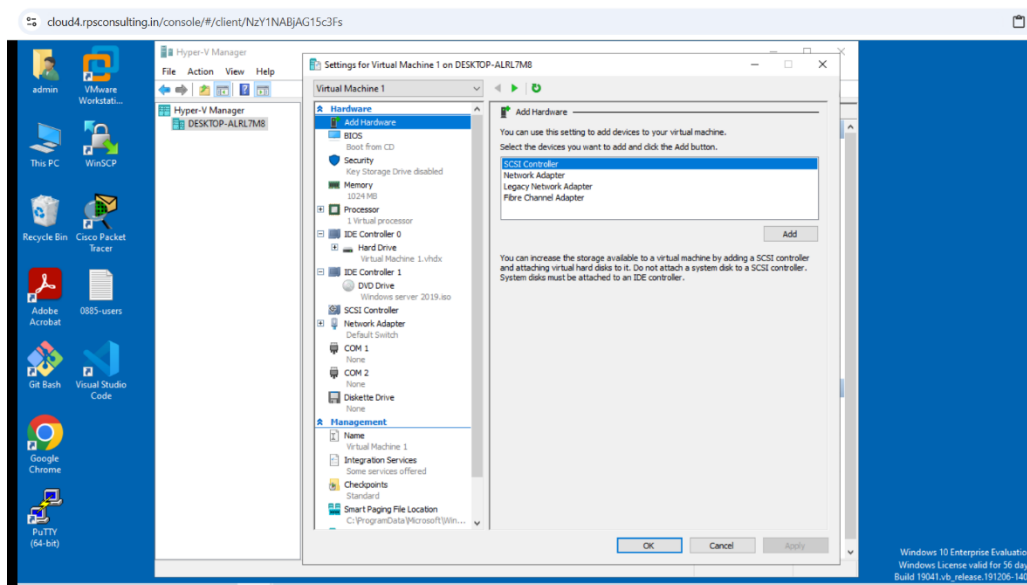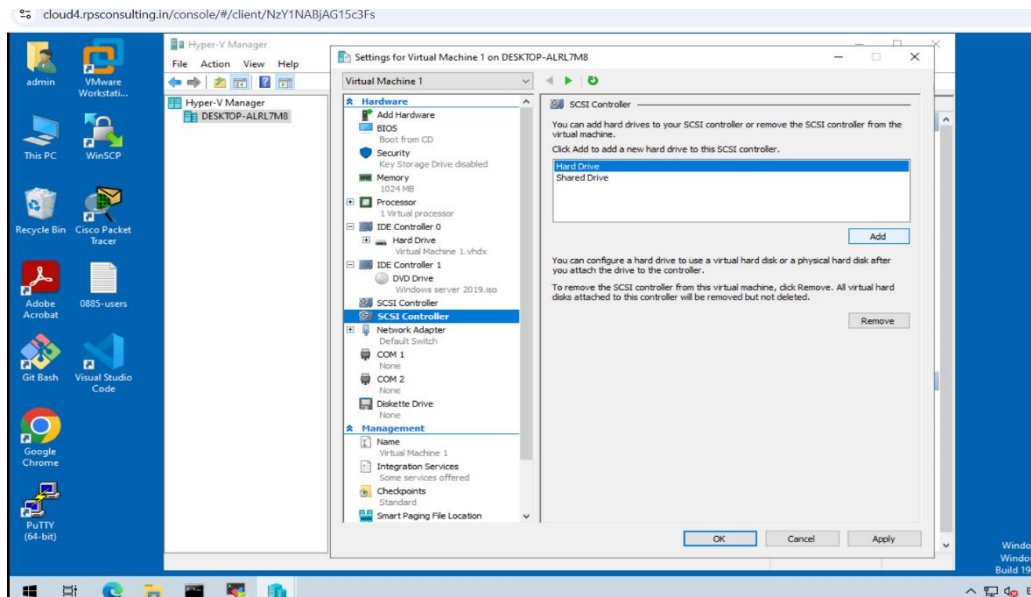

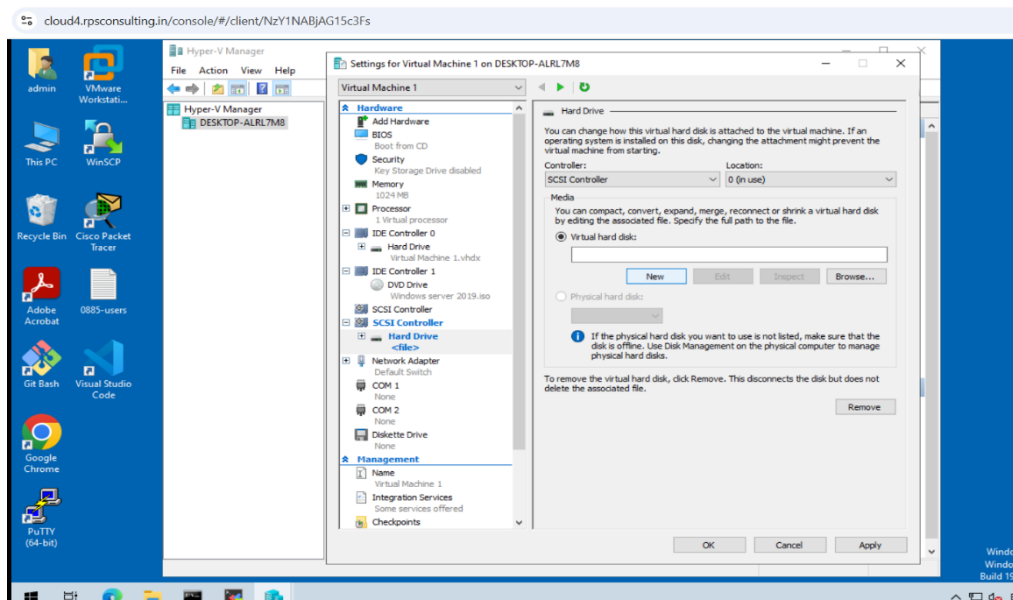8. Completed.

II. Creating a new volume

1. Power off VM->Go to settings->Select add hard drive ->select SCSI controlled->click add.
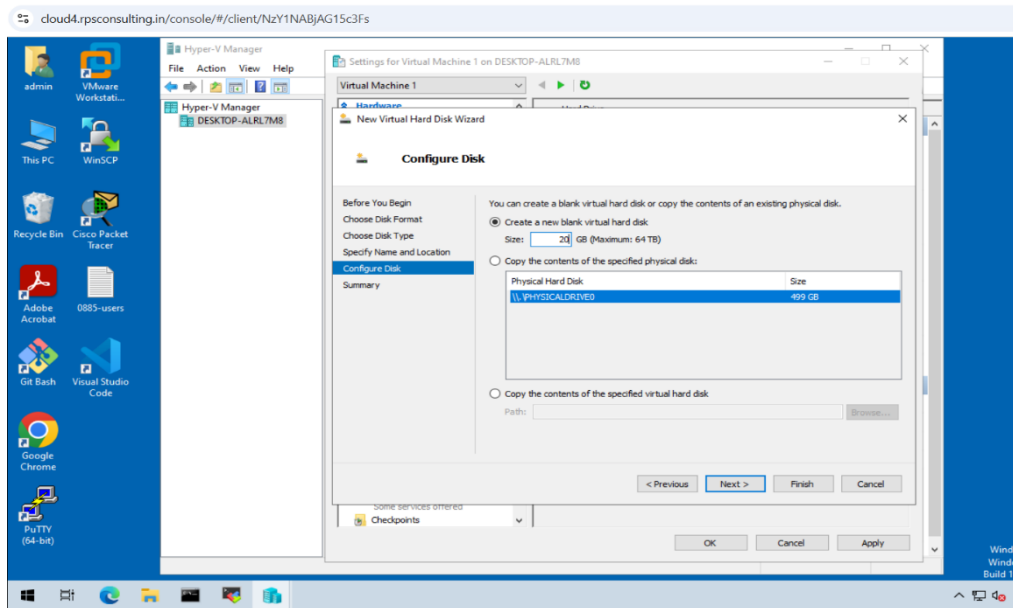

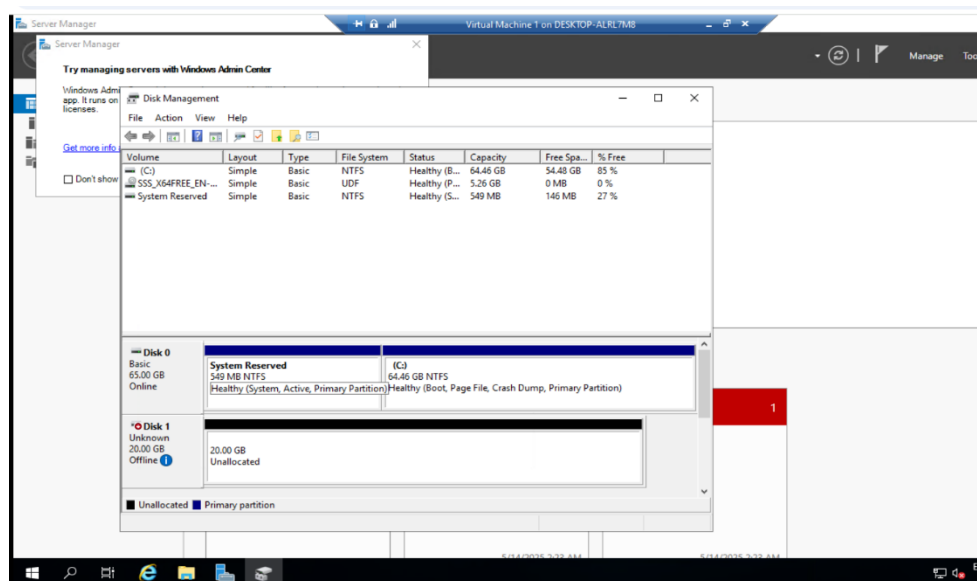2. Select Hard drive in SCSI controller->click Add.
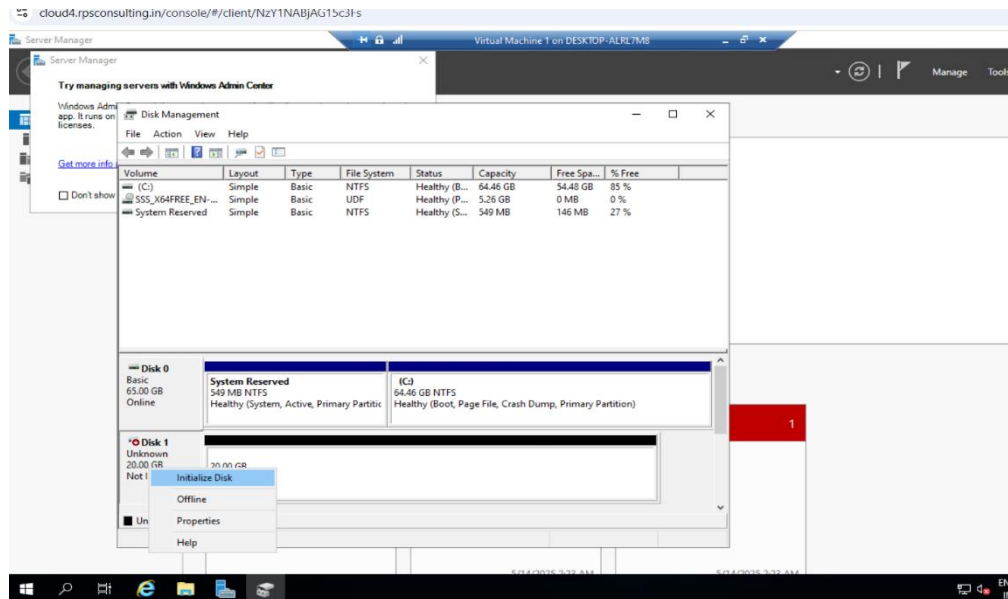
3. In virtual hard disk->click new.

4. New virtual hard disk wizard->click next until you see this tab ->Add size for new virtual hard disk->click next and finish.
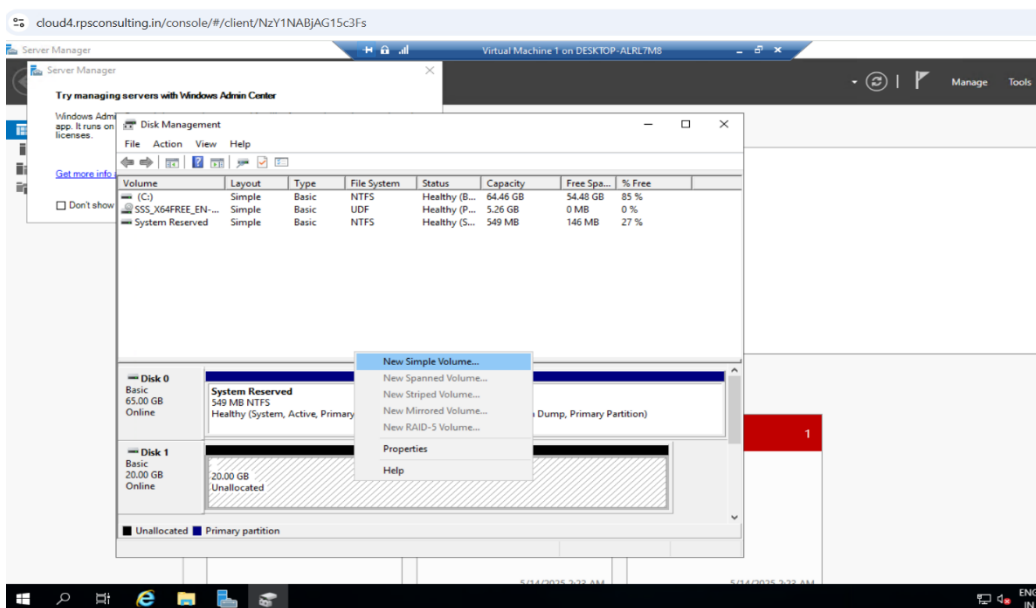
5. Now start VM and go to create and format hard disk->make the create disk online by right clicking.
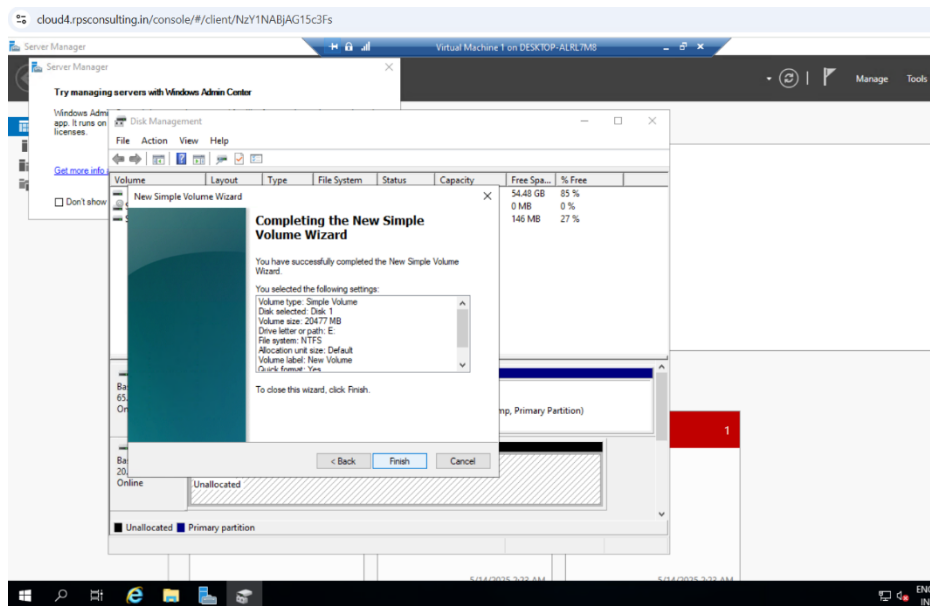

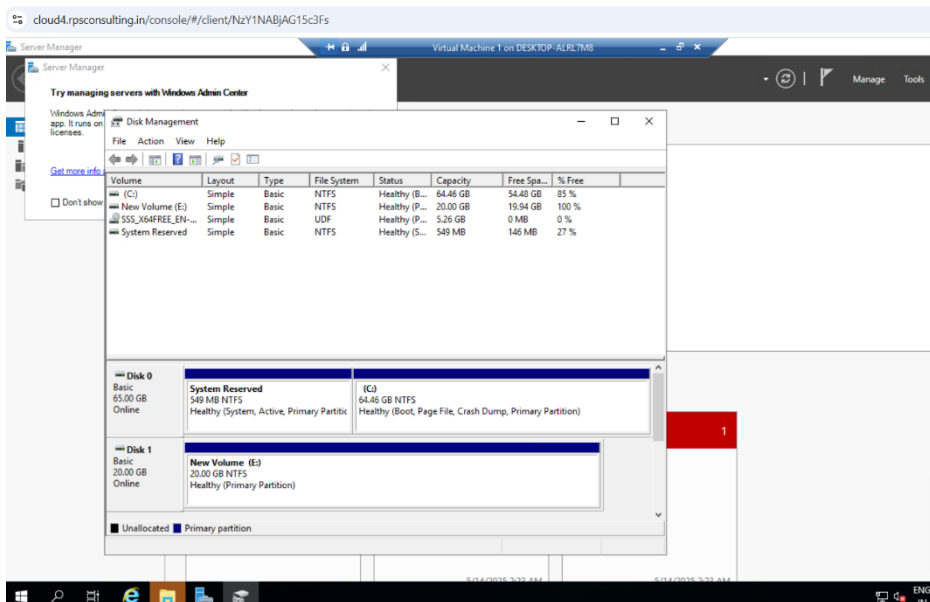6. Make it initialize by right clicking.

7. Click on right on unallocated and right click->select new simple volume.

8. In new simple Volume Wizard click next(if needed you can change the volume name)->finish.

9. New Volume is created.

10. Completed.