LOYALIST COLLEGE
IN TORONTO

In-Class Lab – 1

Course Code – CLOD1003

Instructor Name – Maziar Sojoudian

Submitted By:

Group C

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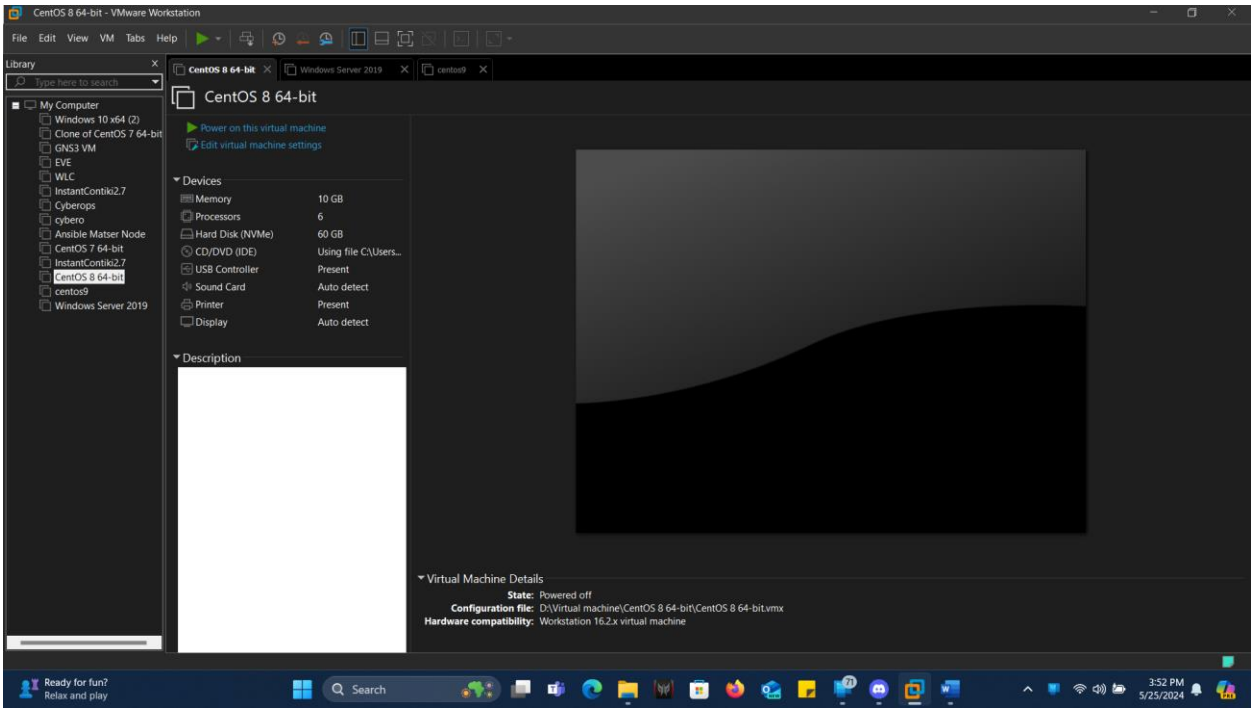
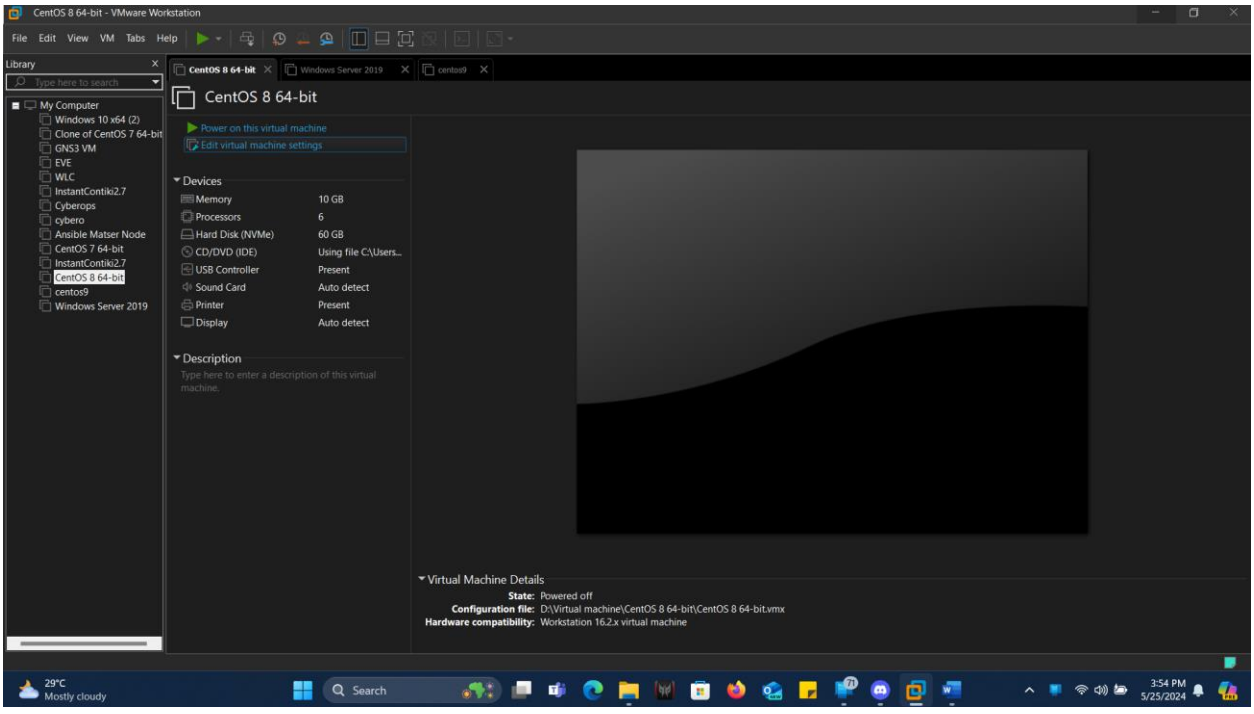
➢ Create Network adaptor.

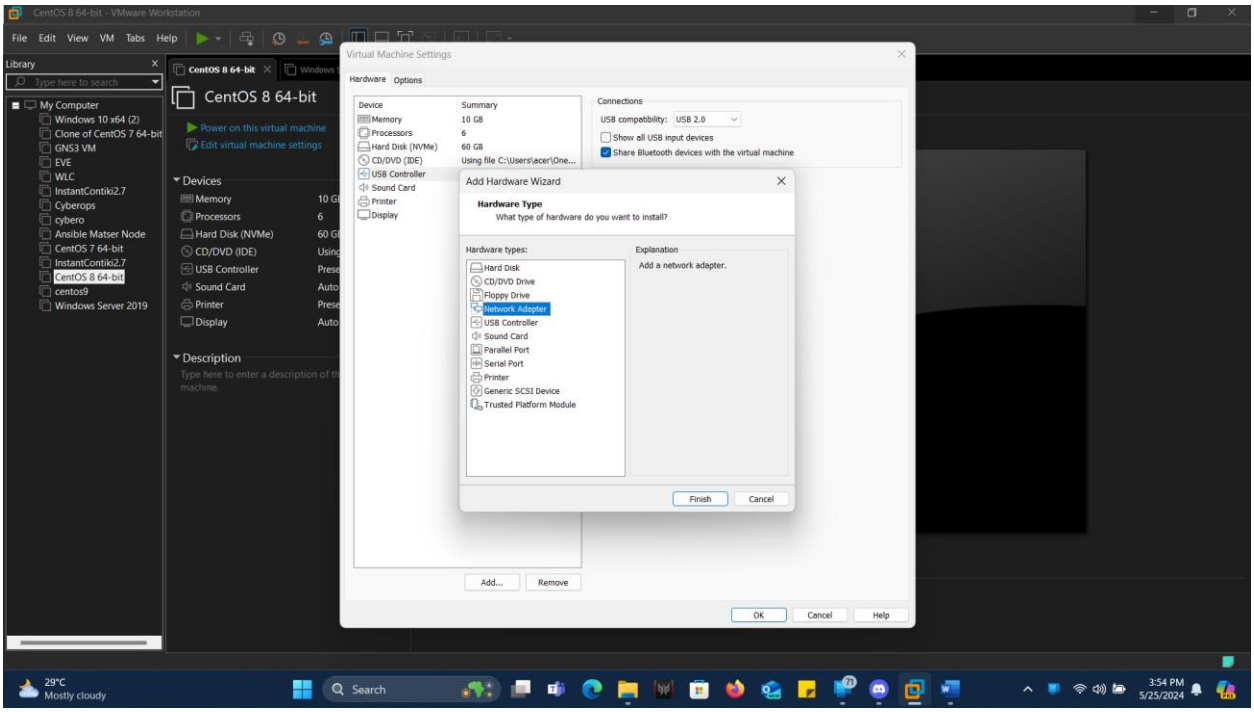
- Open virtualization tool.



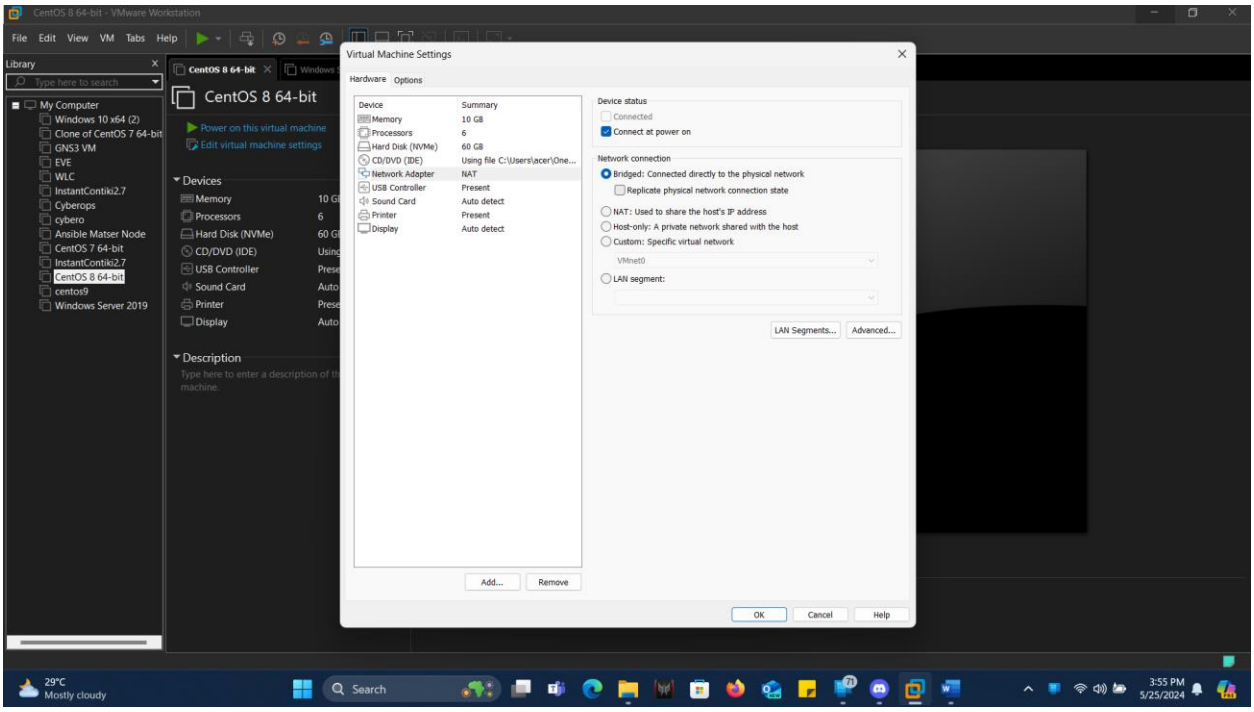
- Select your existing linux VM.



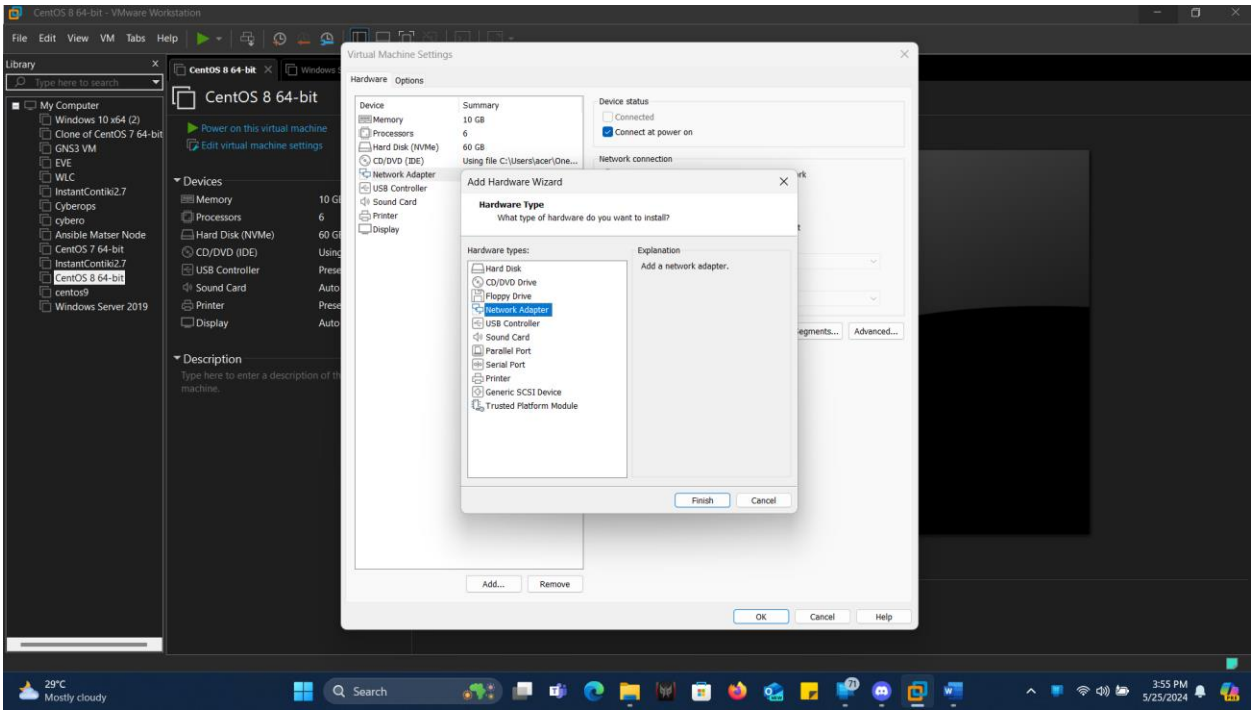
- Go to the settings of the VM. And add two network adaptors.



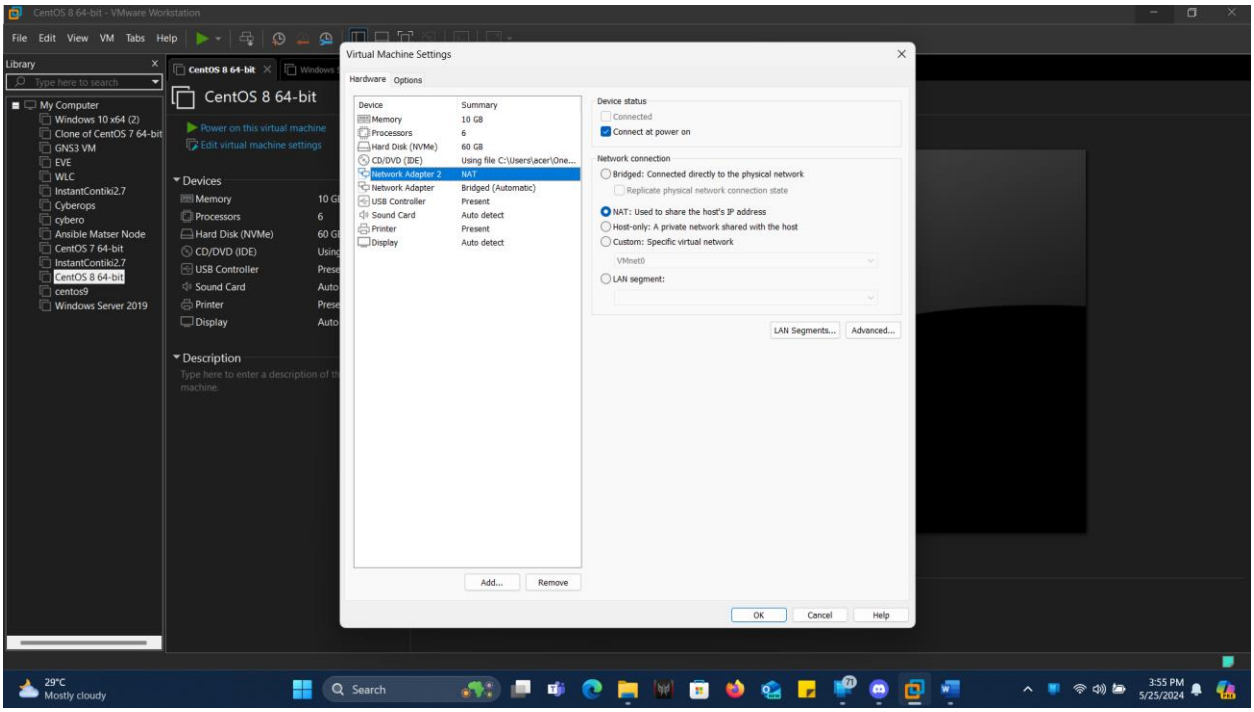
- One should be set to bridged.



- Add another network adaptor.



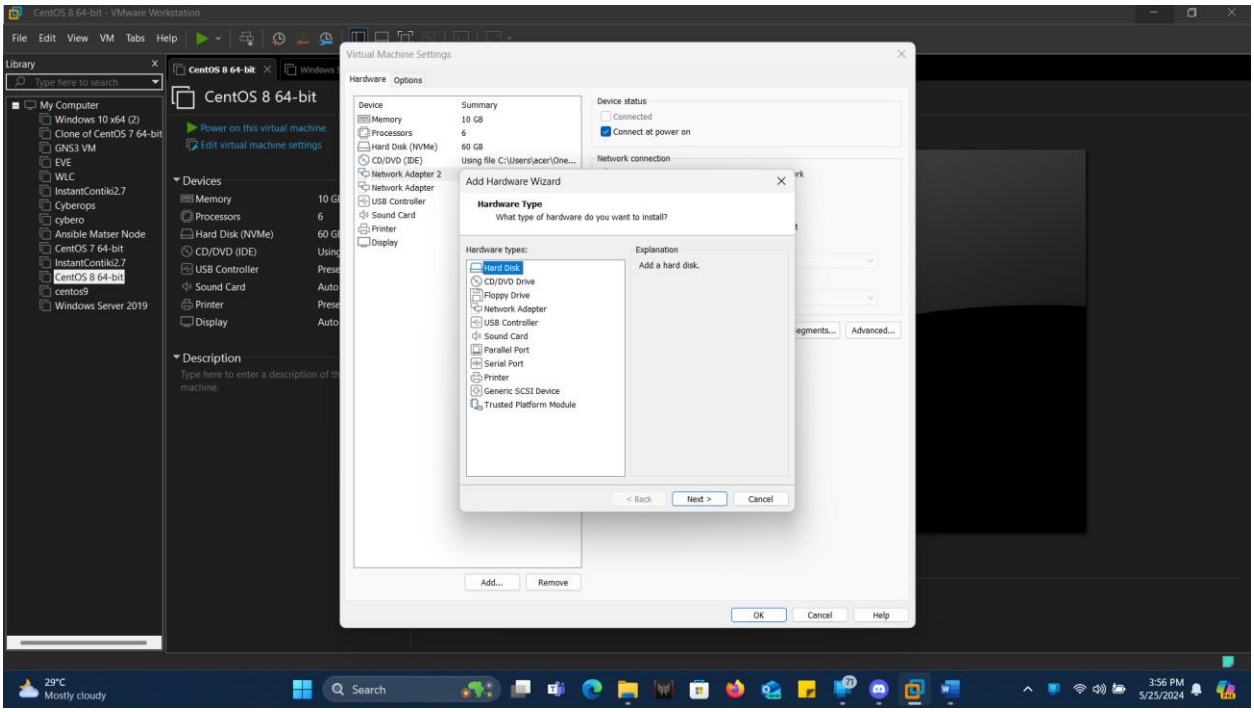
- The other should be set to NAT.



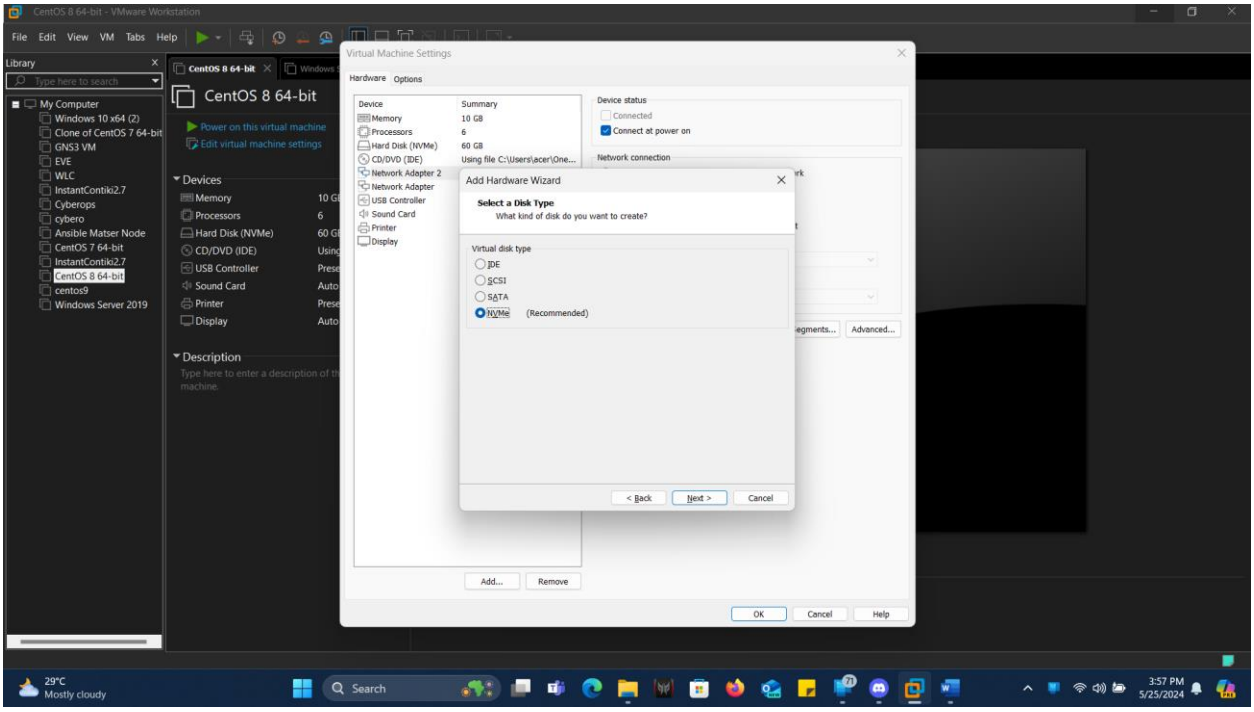
- Save the settings.

- **<u>Add additional storage and mount as /u02.</u>**

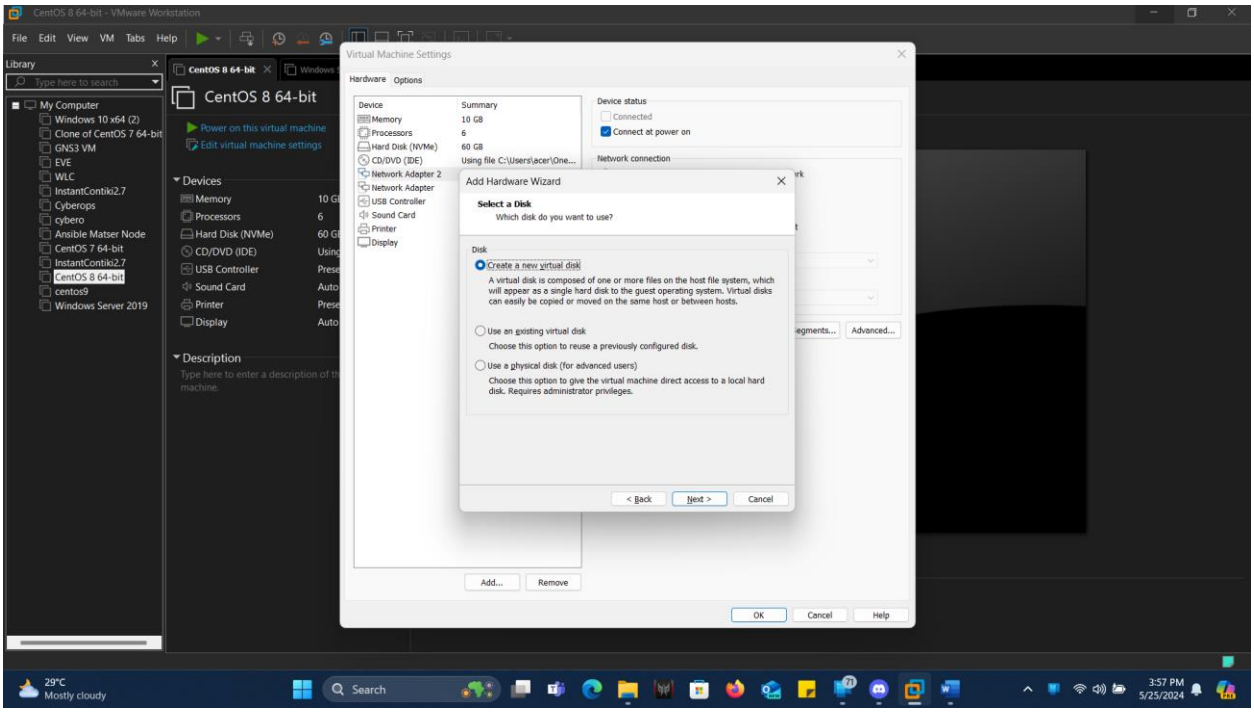
- Add additional storage.
    - Open your VM settings.



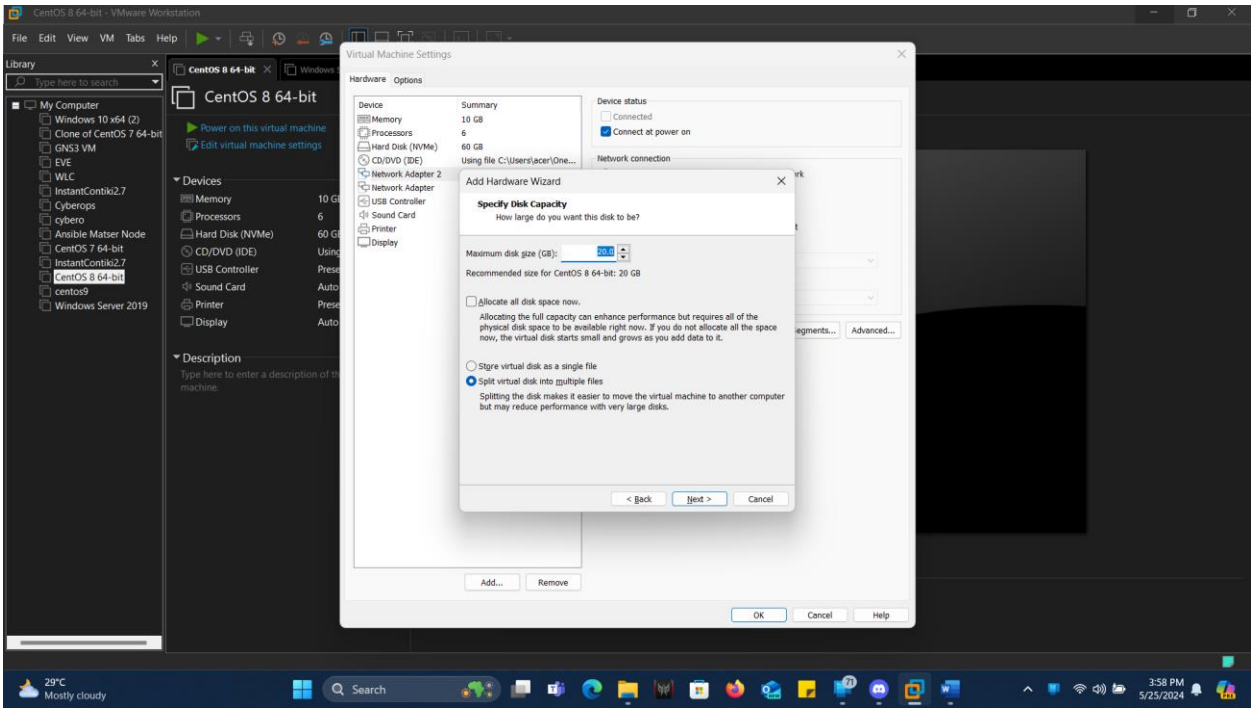
- Add a new virtual hard disk of any type. We are selecting NVMe as our disk type



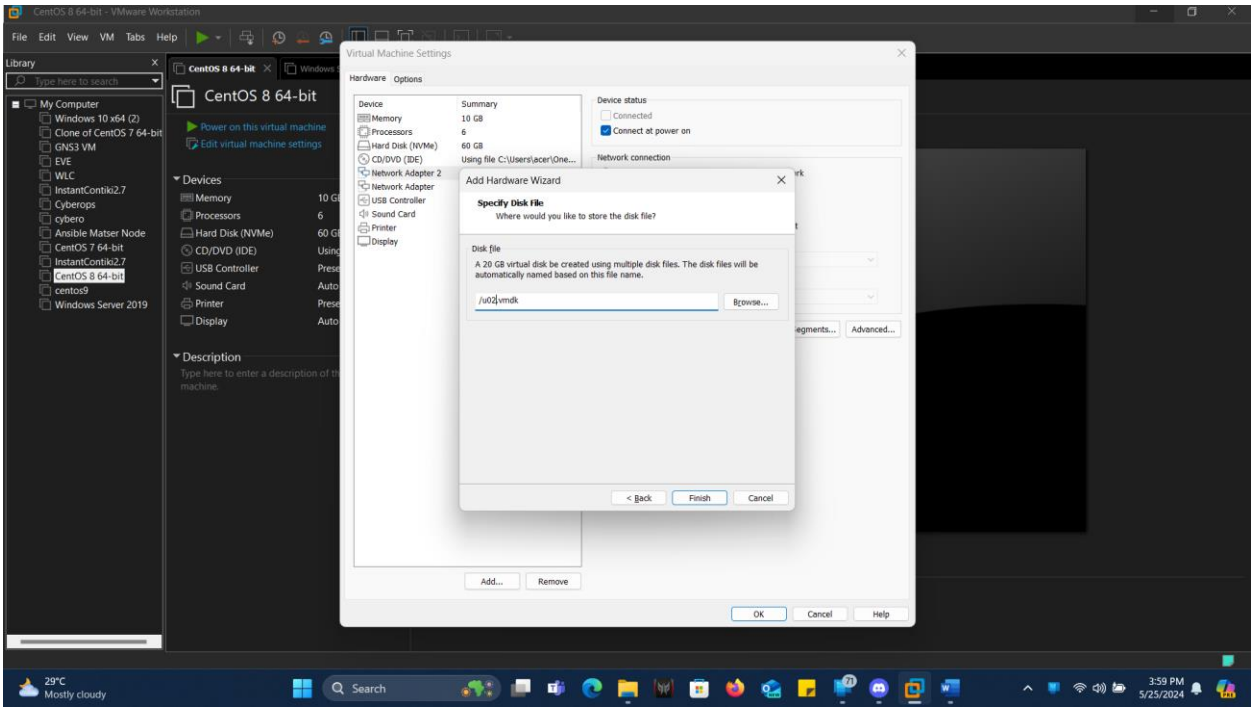
- Click on create new virtual disk, then press next.



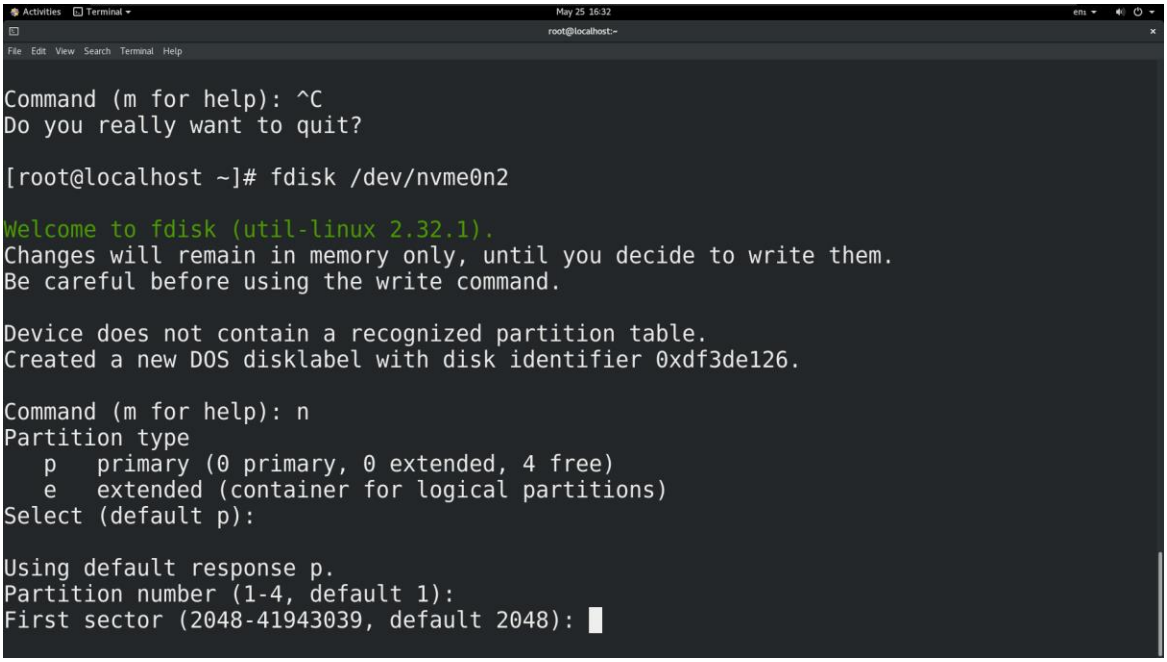
- Select the maximum disk size(20gb).



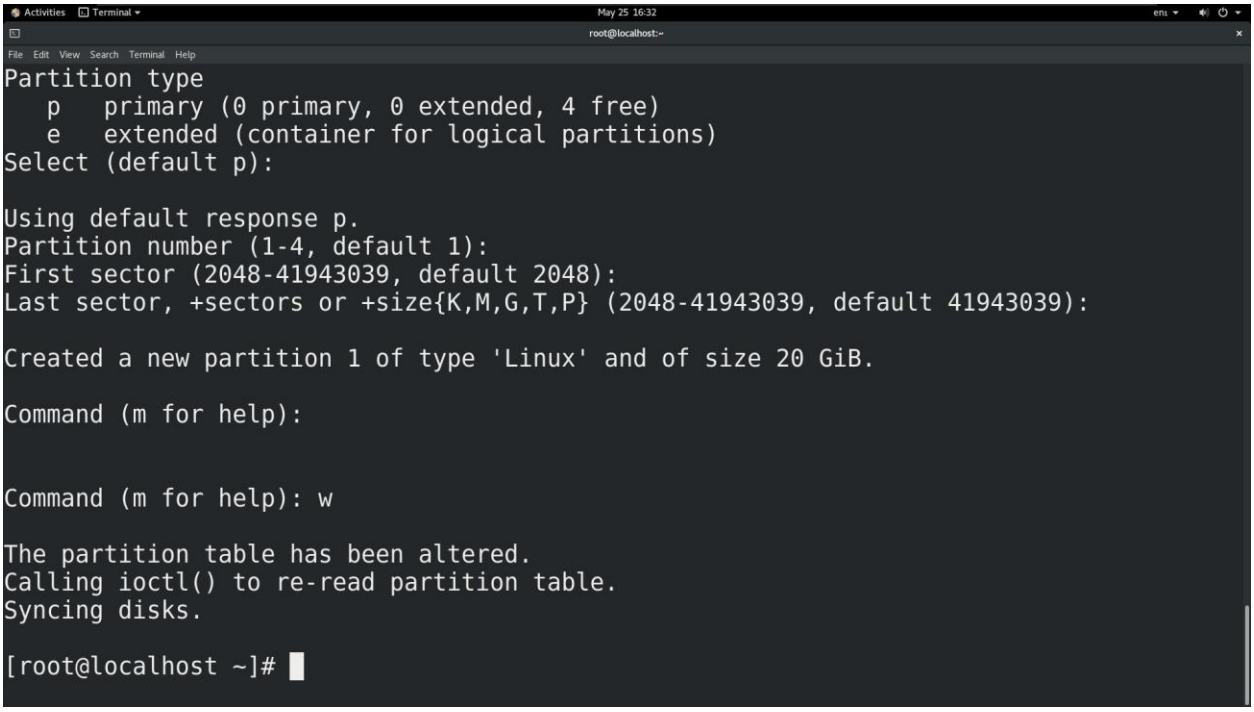
- Specify the name for storing the disk file.which we named /u02



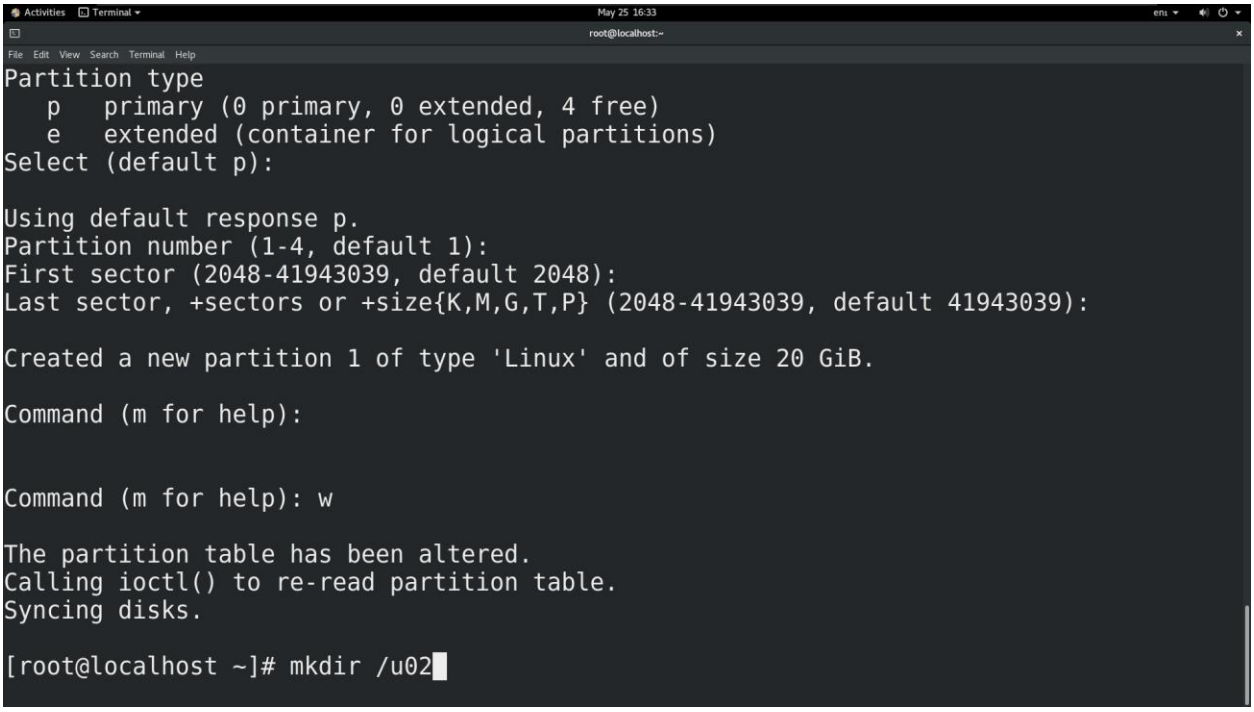
- Format and mount the new disk.
  - Open a terminal in your Linux VM.
  - Identify the new disk using ‘fdisk -l’. (we didn’t do this step because when you double tap tab key you will get all the available devices after typing ‘fdisk /dev/’)
  - Create Partition using ‘fdisk /dev/nvme0n2’.



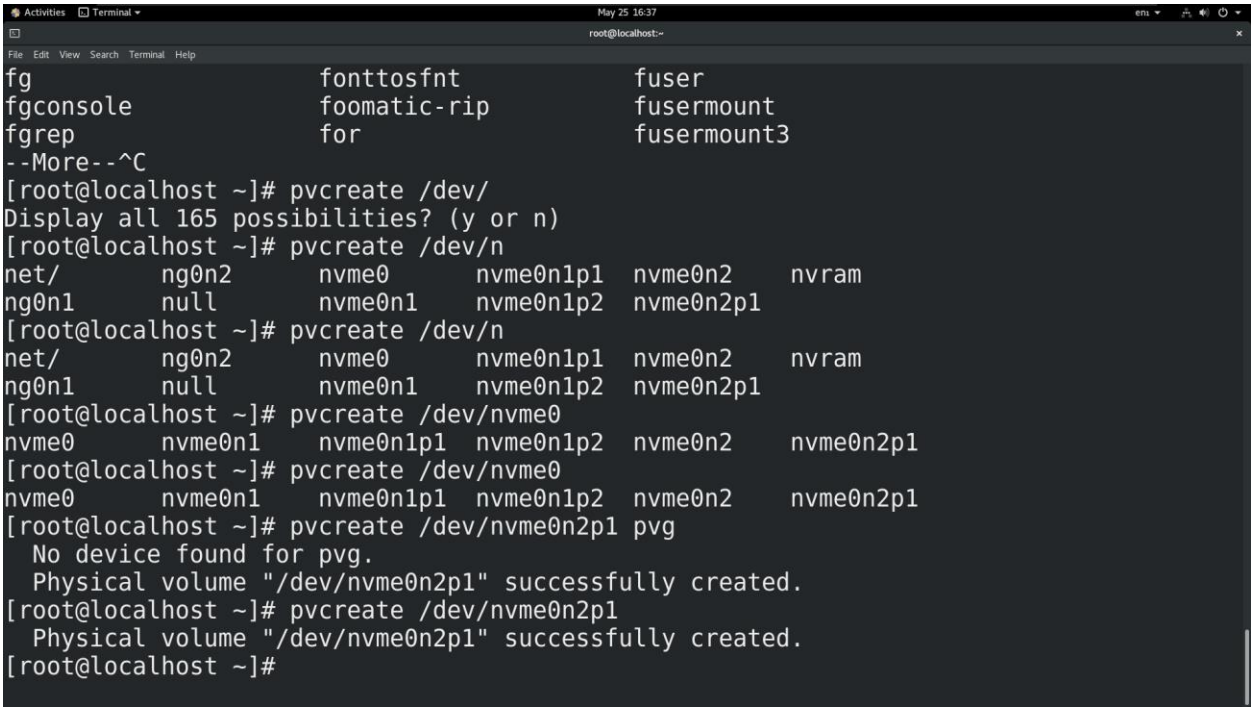
- Create a partion on the new disk.



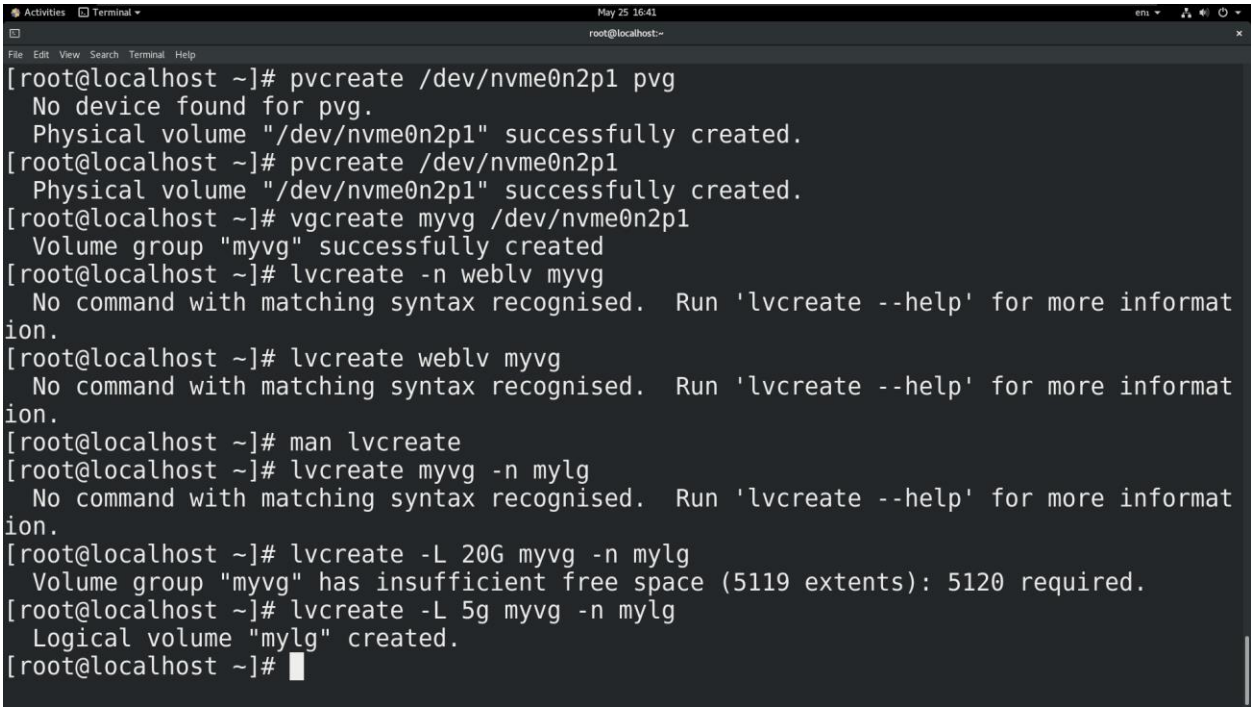
- Created the folder to mount your partition.



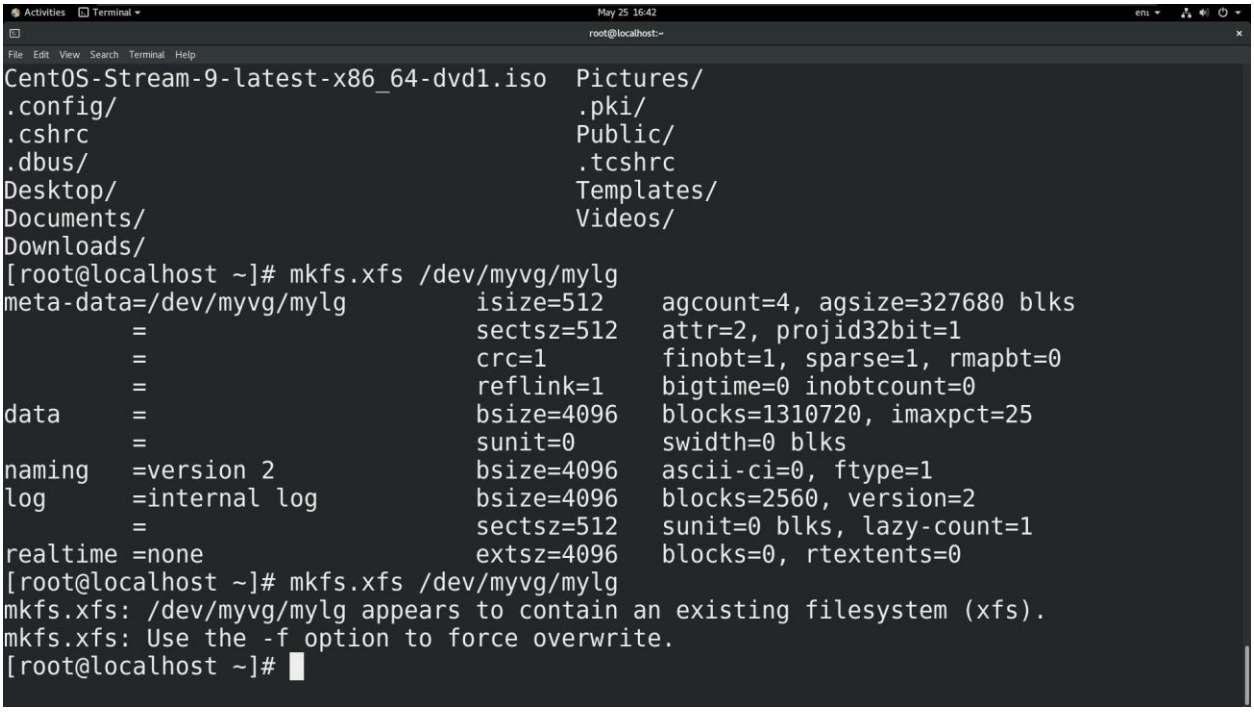
- Created a physical volume by PVCREATE.



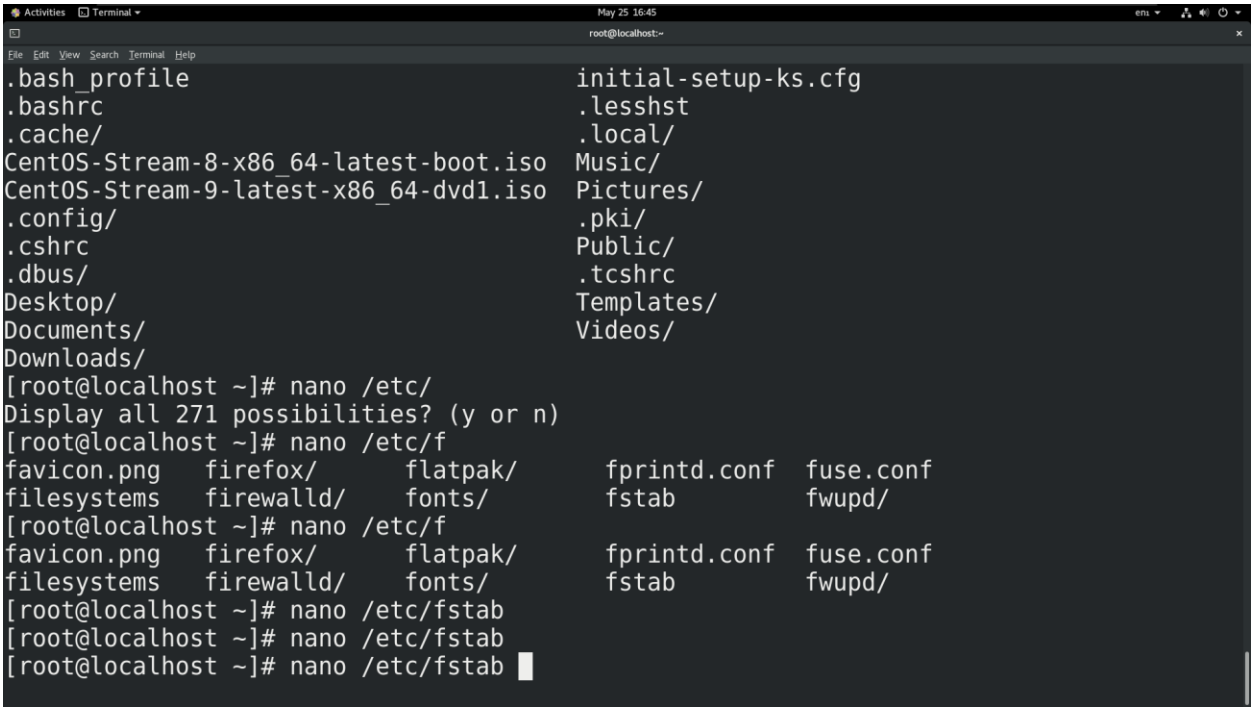
- We later create Volume group using vgcreate and logical Volume using lvcreate we use 5GB of that volume group to create ‘mylg’ logical volume.



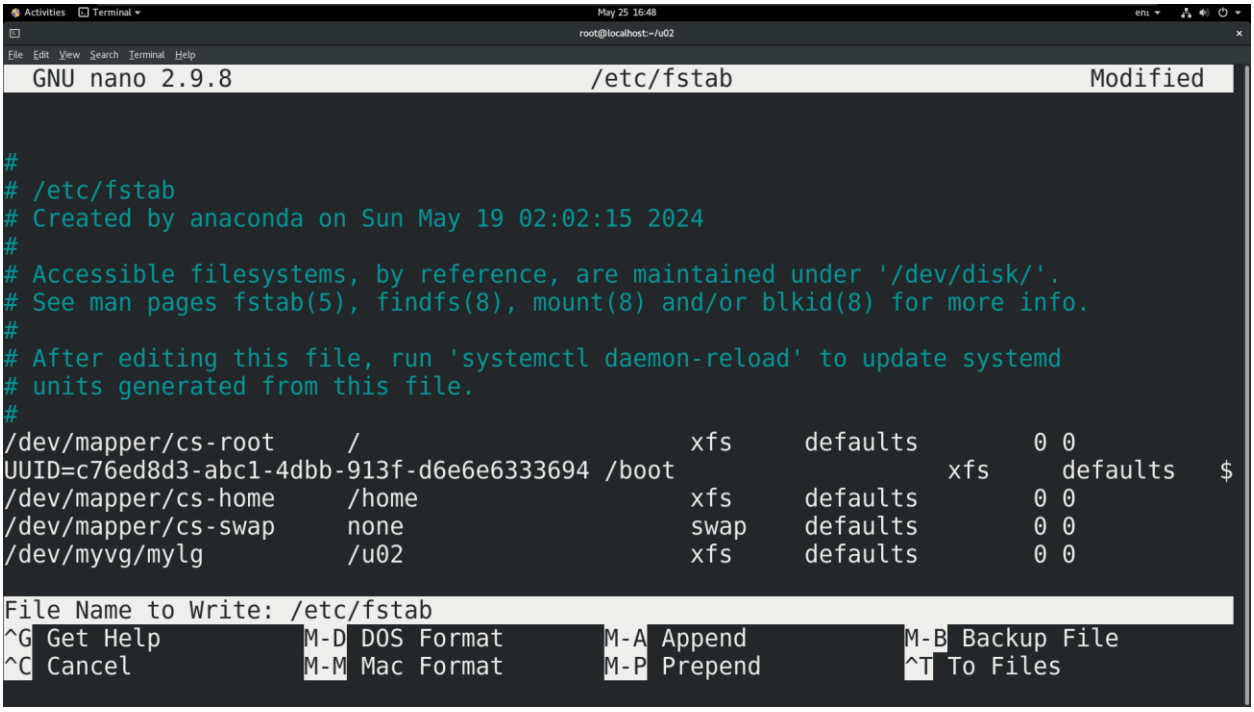
- Later we create that logical volume to be in a format as xfs.



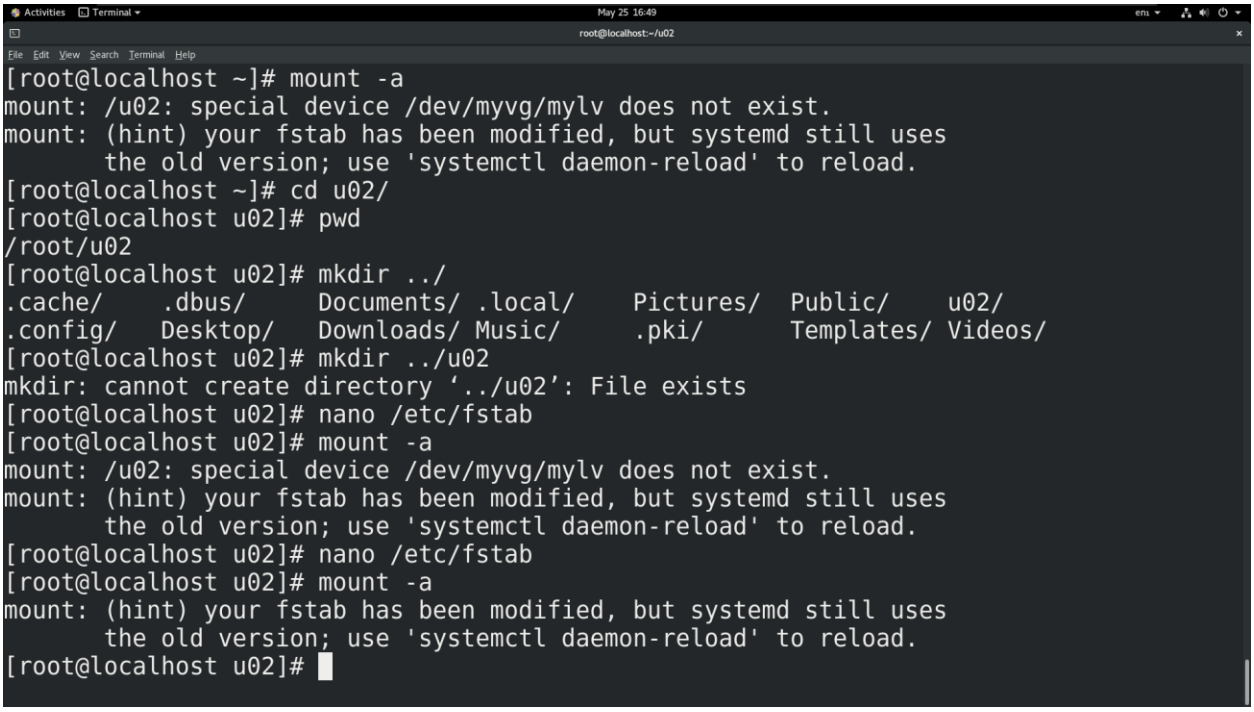
- Later to mount we need to add the record in /etc/fstab.



- After updating the fstab file as given below.

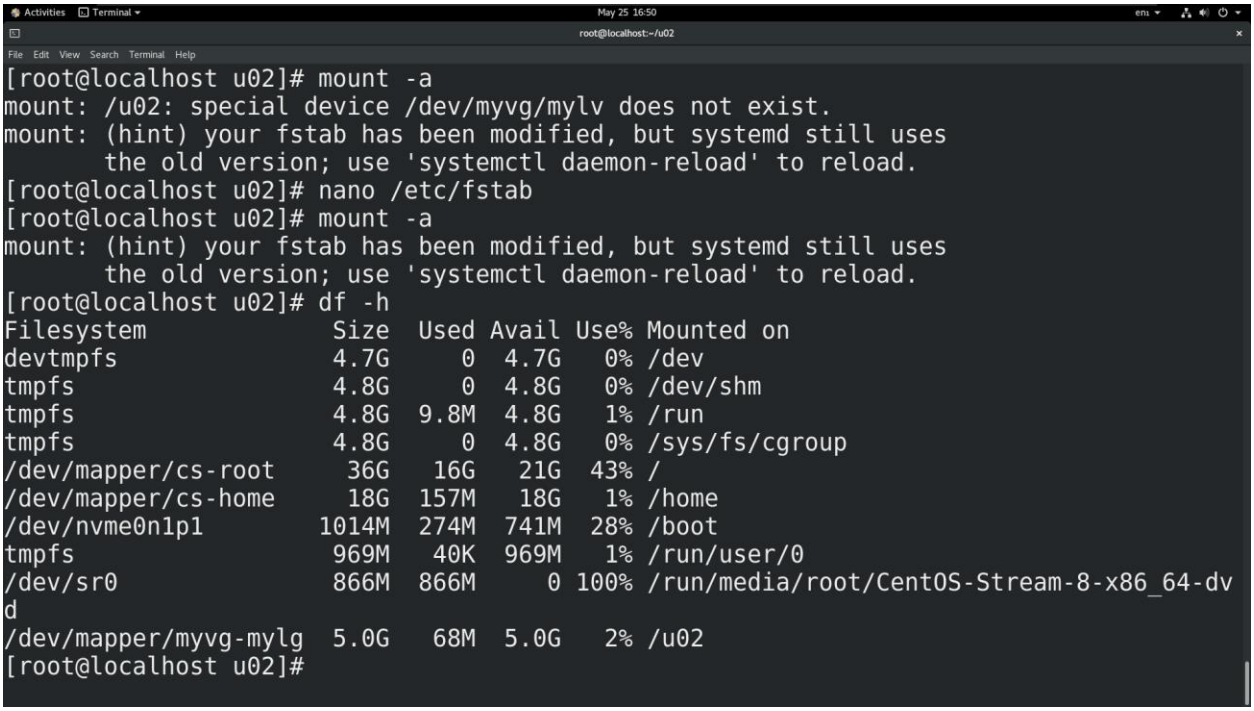


- Use mount –a to mount the storage to the folder and if it's successful, we will be able to shutdown and system will still connect the storage to u02 as we have added the record to fstab file.



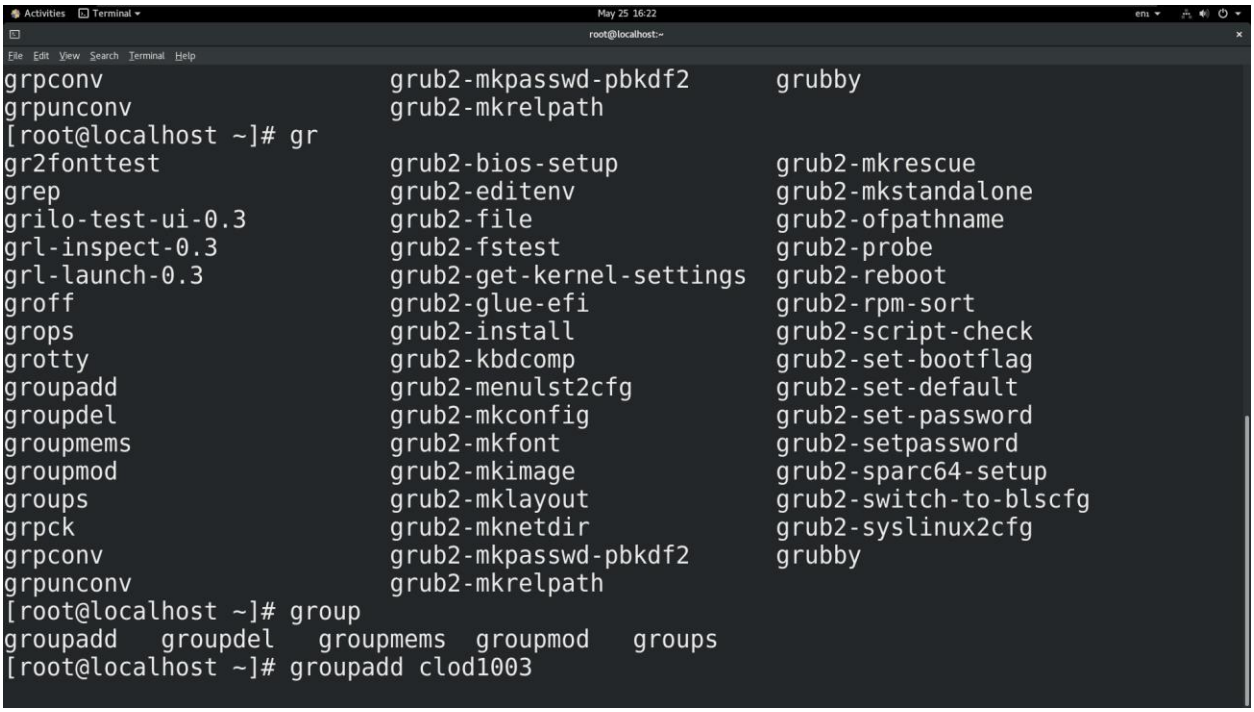
➢ Verify mounted disk

- Using df -h we can find the logical volume which are connected to the files stem and see the specifications of each storage and the usage of the storage.



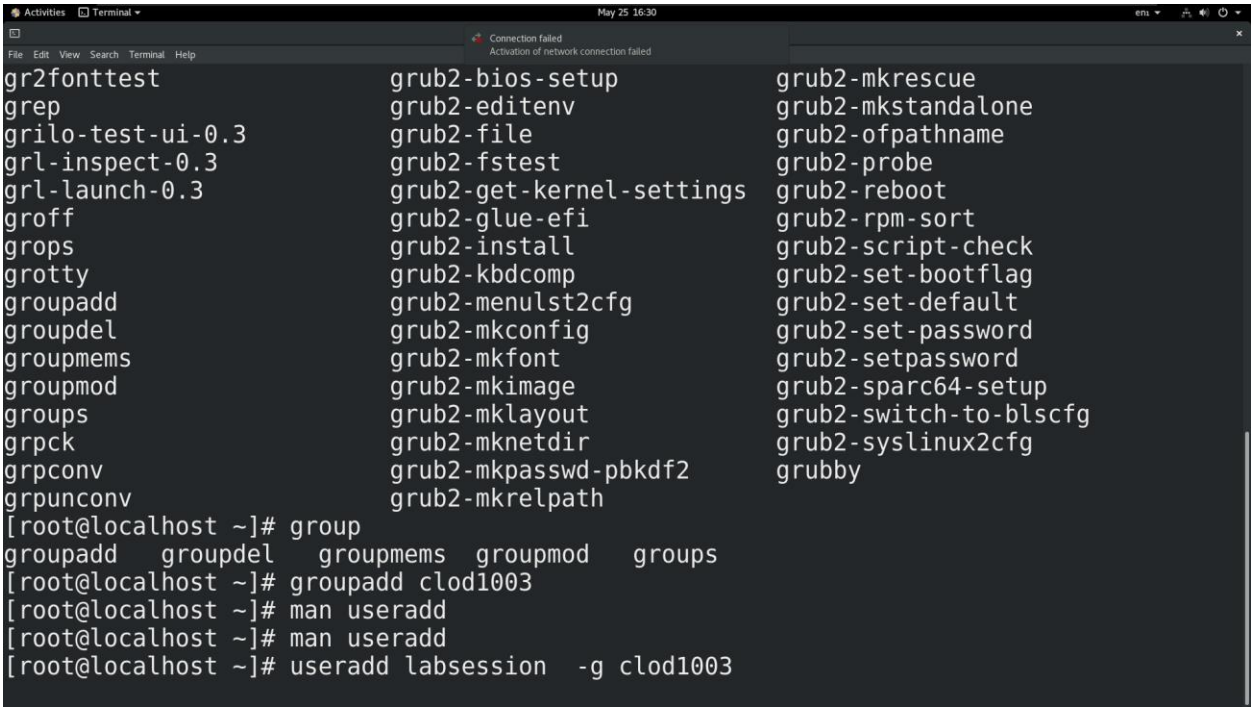
➢ Create user group “clod1003”

- Using group add we add the group ‘clod1003’.



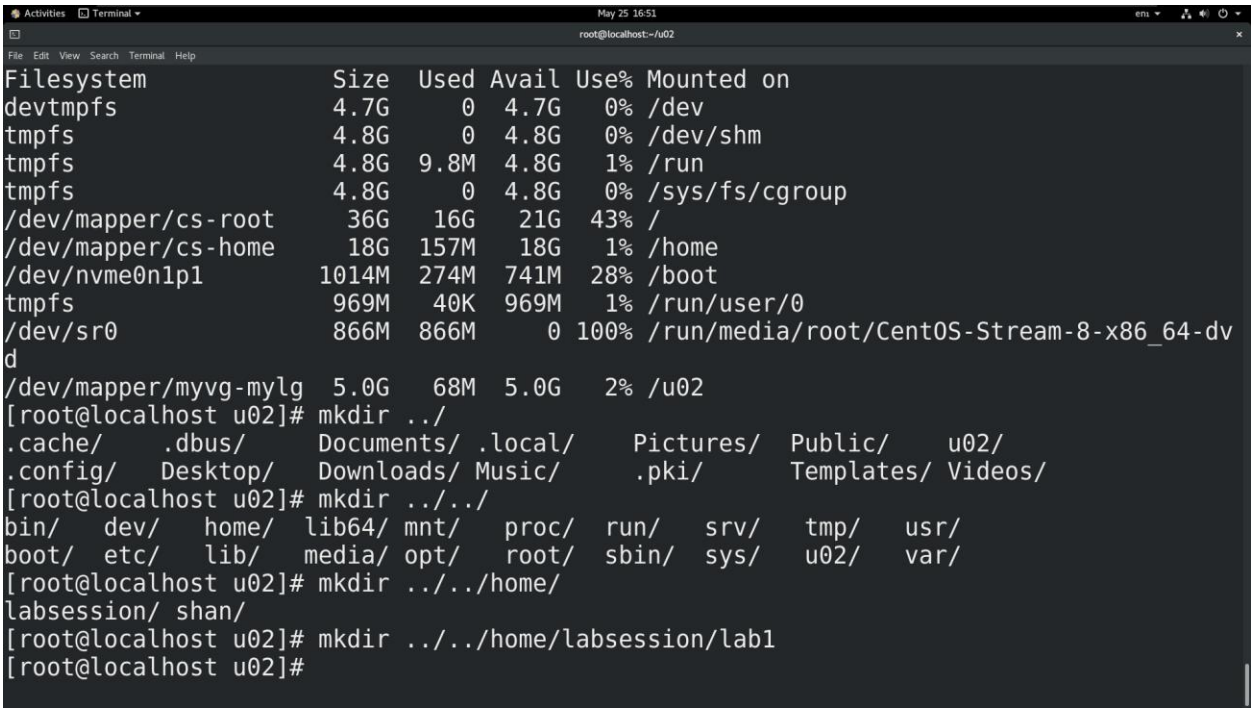
➢ Create a user labsession and add it to clod1003 group

- Using useradd we create a user as labsesession and add the user to group clod1003.

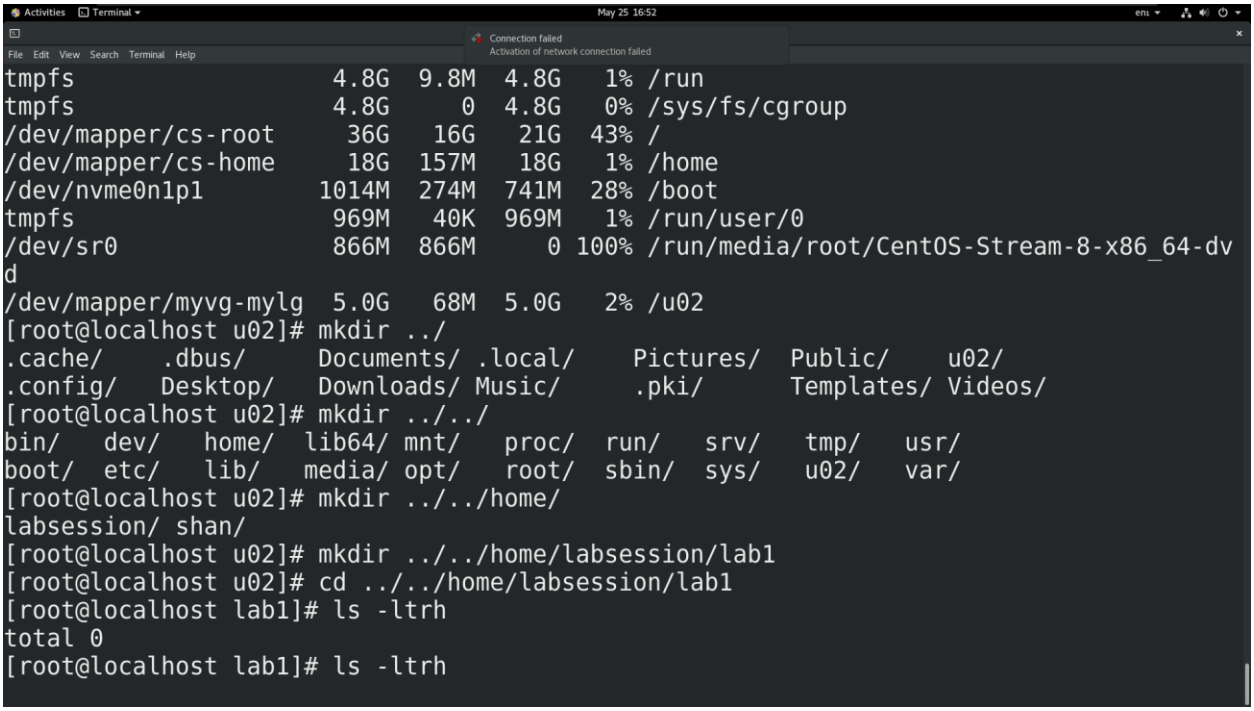


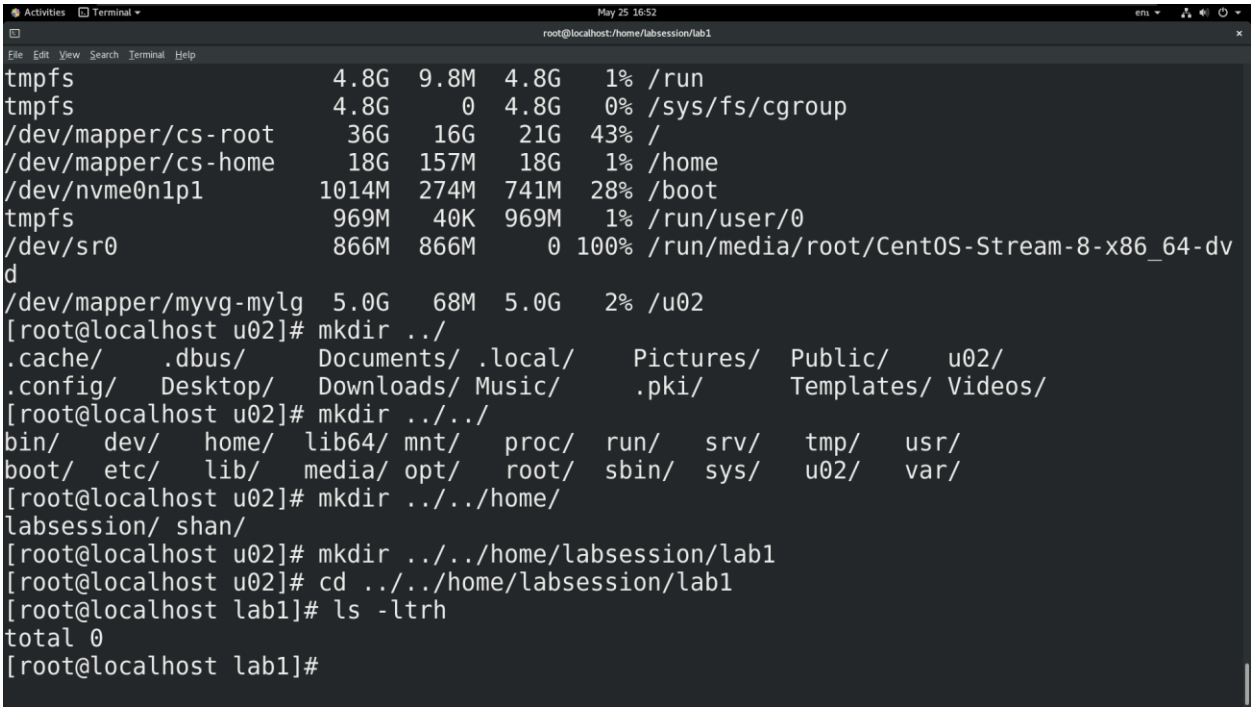
➢ Create a directory lab1 inside labsession home directory and verify.

- To create folder in labsesession we use mkdir.



- We are going to use ls to see the content in that folder.





- The abbreviation on -ltrh stands for
    - -l use a long listing format.
    - -t sort by modification time, newest first.
    - -r reverse order while sorting.
    - -h with -l, print sizes in human readable format (e.g., 1K 234M 2G)