OLD DOMINION UNIVERSITY

CYSE 270 LINUX SYSTEM FOR CYBERSECURITY

Assignment #7 Manage Local Storage

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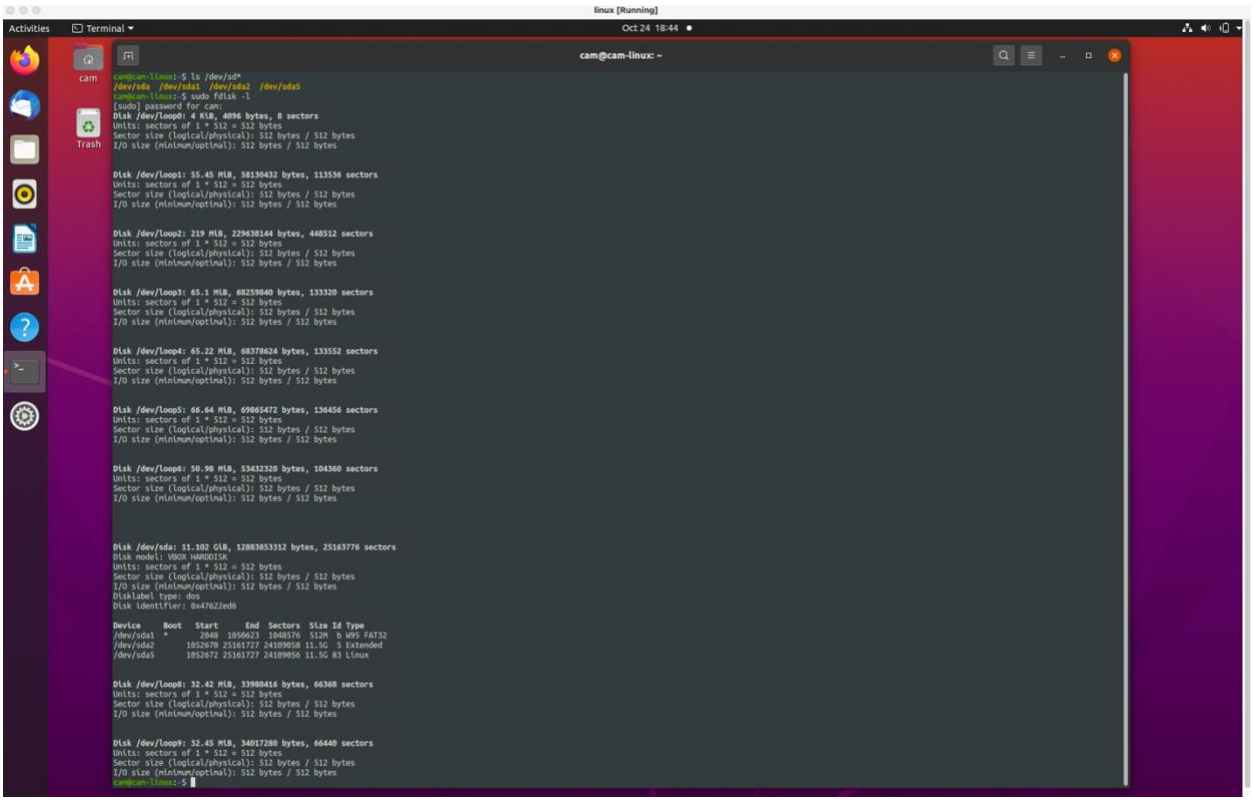
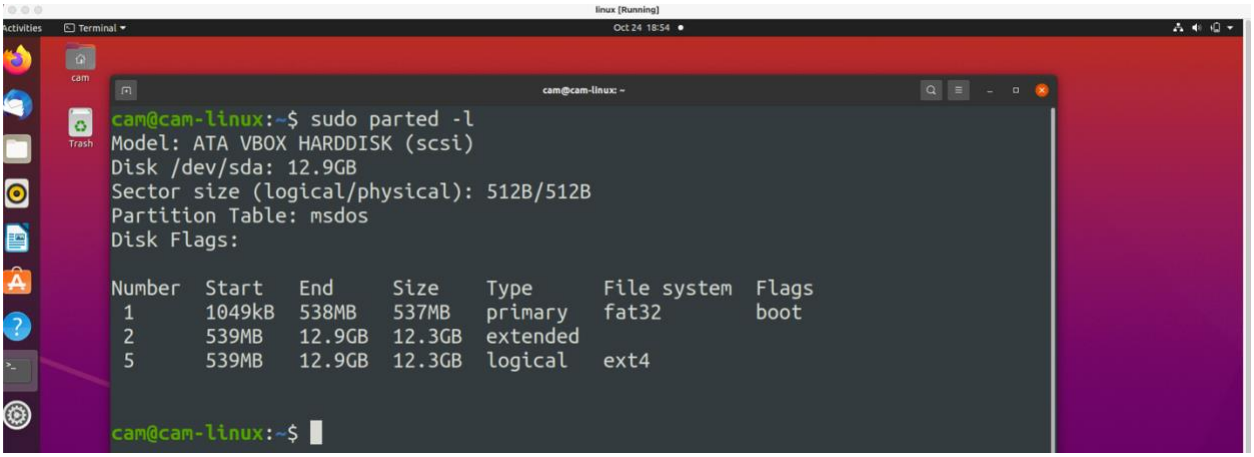
TASK A

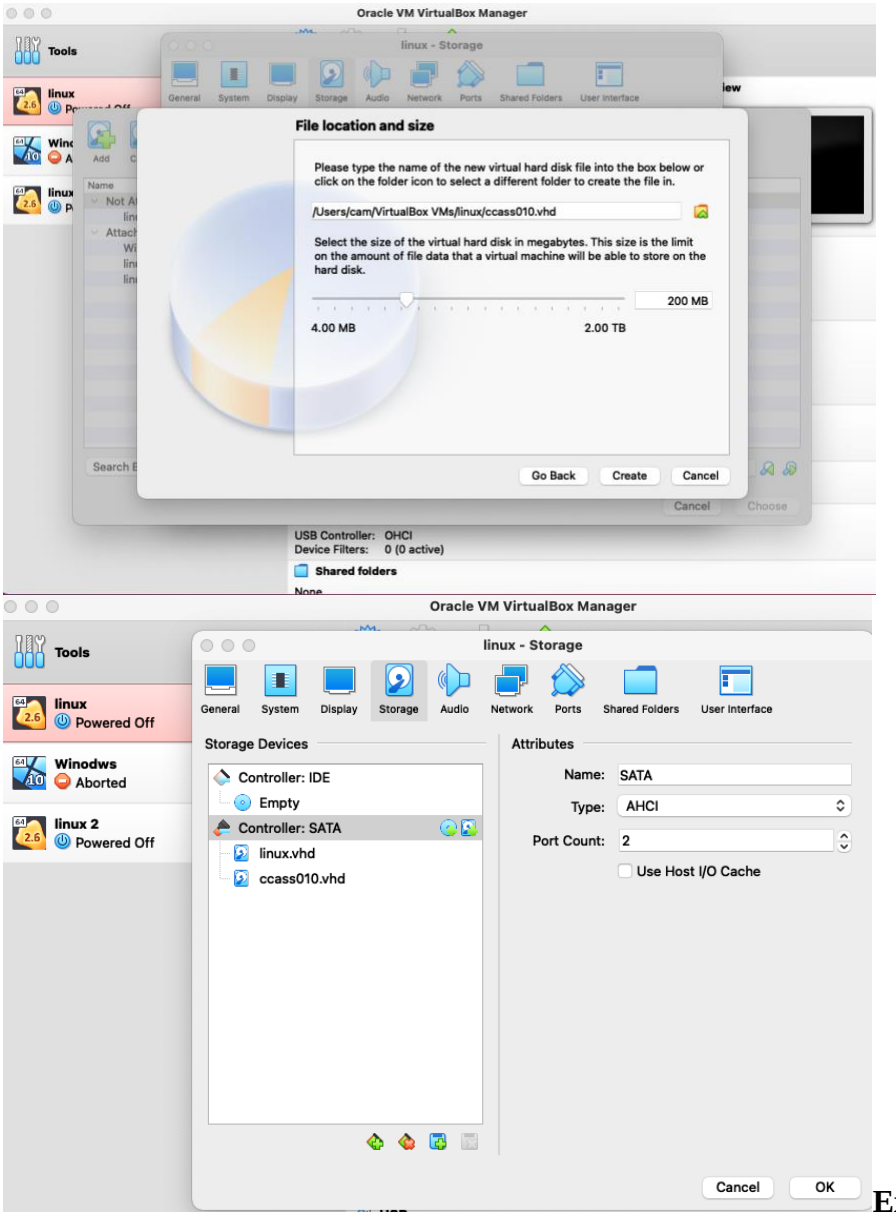




Explanation (Step 1-3)

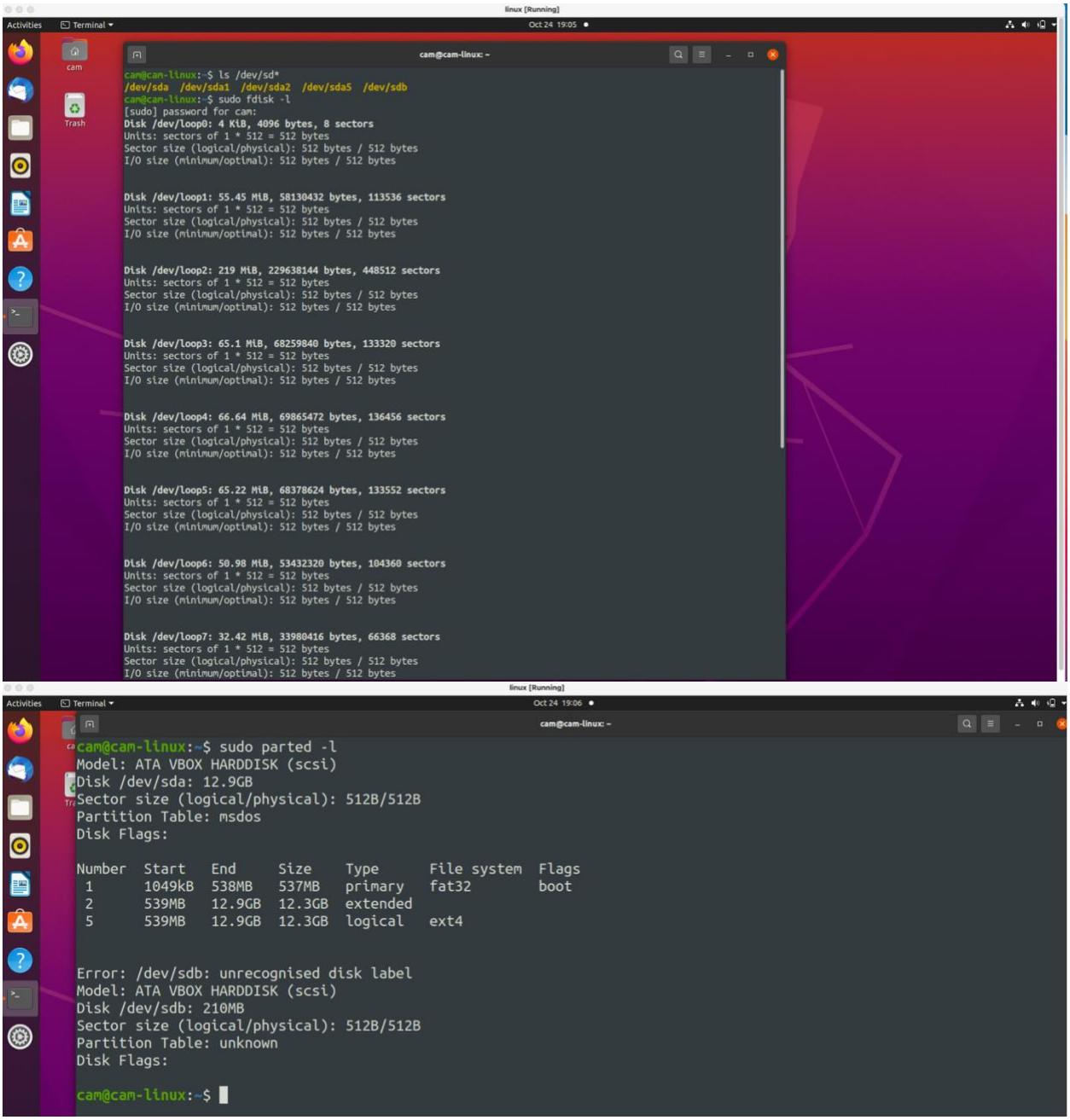
- I use “ls /dev/sd*” to see the current hard disk devices.
- I use “sudo fdisk -l” to list the current hard disk partitions.
- I use “sudo parted -l” to list the current hard disk partition table

TASK B



Explanation (Step 1-2)

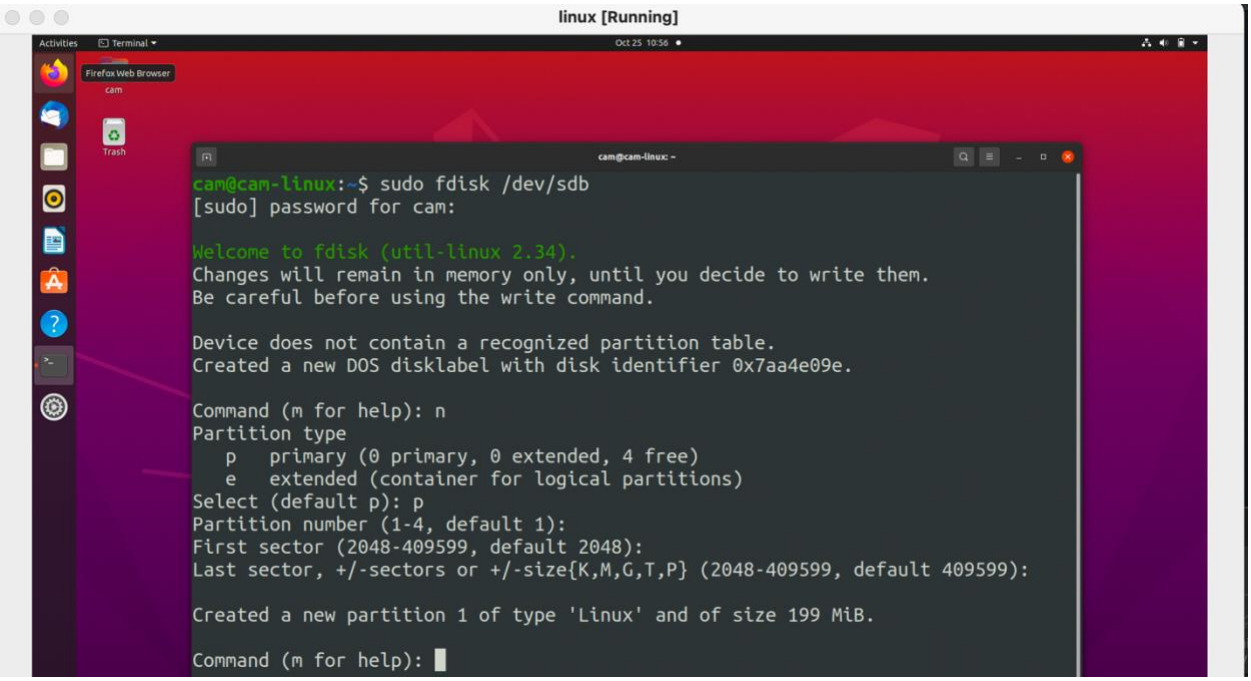
- In the Oracle VM VirtualBox setting, I attach a new virtual hard disk with the size of 200 MB to my current Linux VM and name it as “ccass010.vdi”
- I load this virtual hard disk to my virtual machine.



Explanation (Step 3)

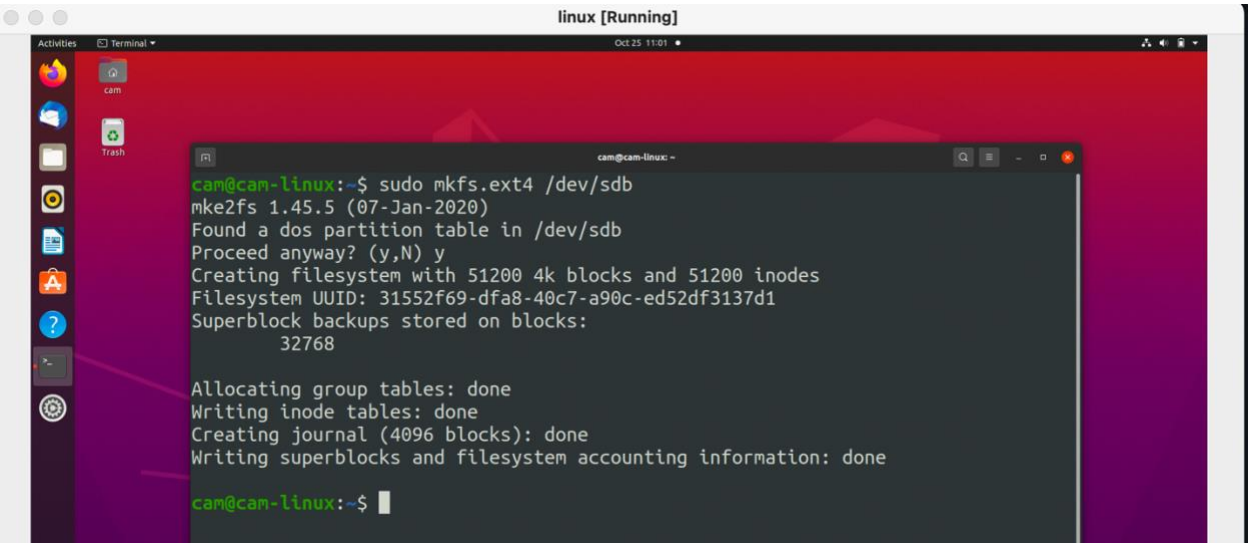
- I repeat the steps in Task A. When I ran it this time a new disk appears (/dev/sdb)

TASK C



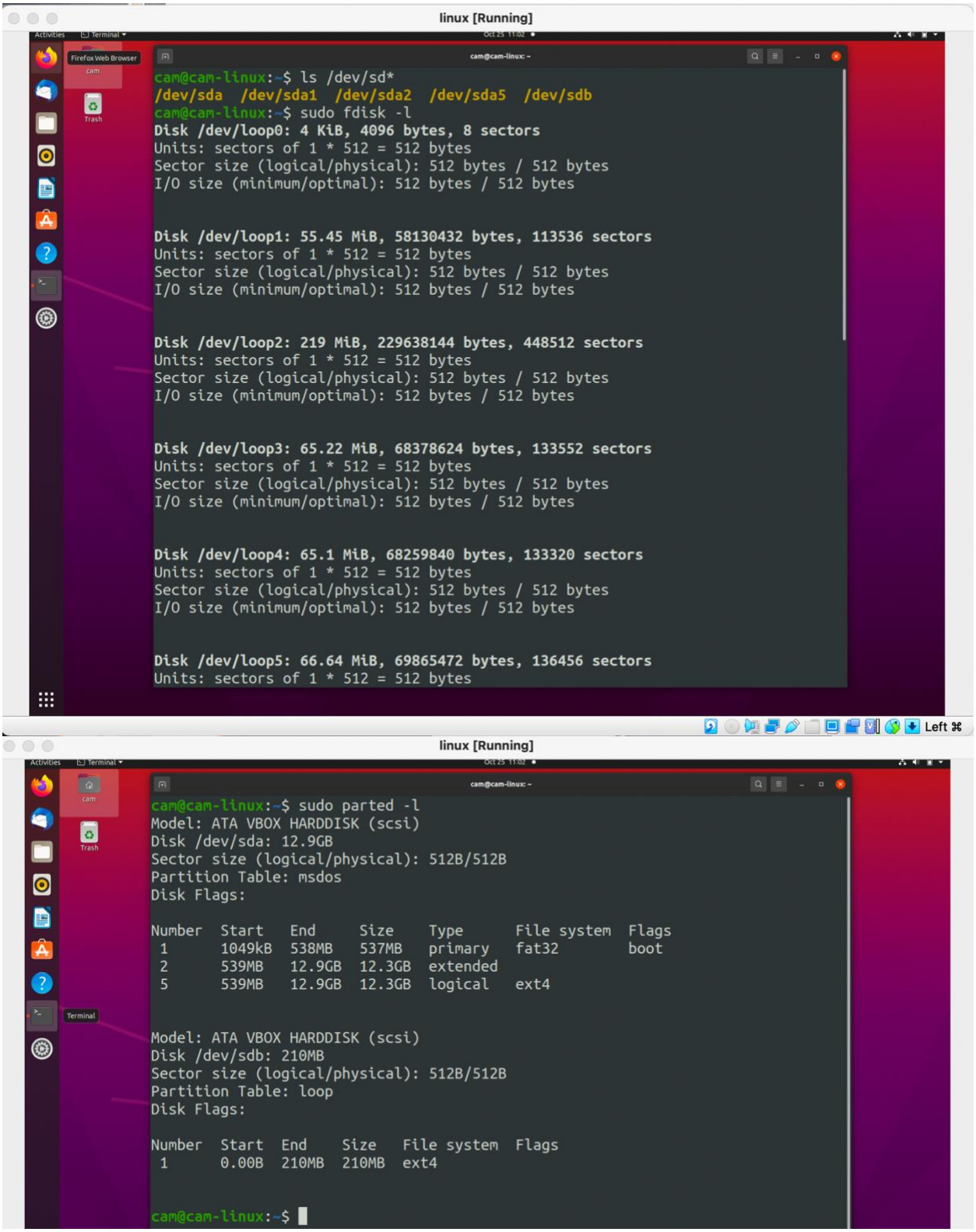
Explanation (Step 1)

- I use the fdisk command to create a new primary partition on the new virtual hard disk attached in Part II.



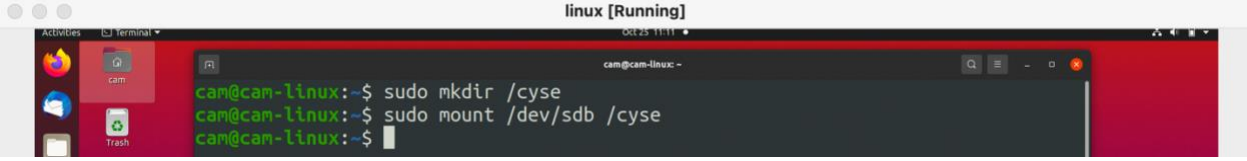
Explanation (Step 2)

- I use “sudo mkfs.ext4 /dev/sdb” to create an ext4 filesystem on the new partition.



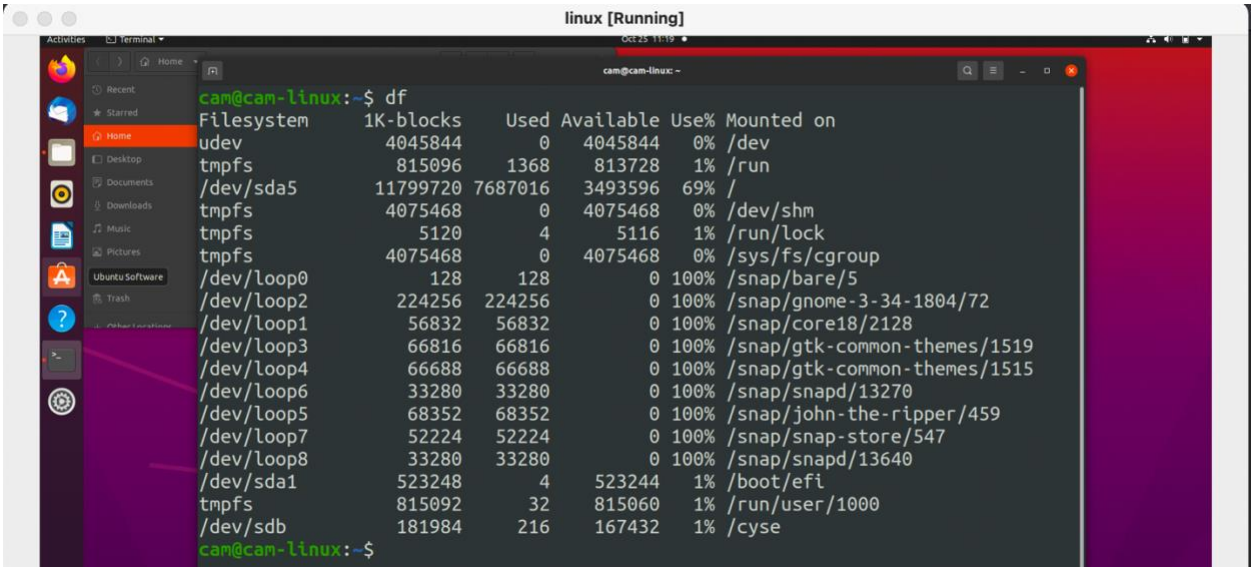
Explanation (Step 3)

- I repeat the steps in Part I
    - /dev/sdb now has a disk label and partition table. Also has the file system of ext4.



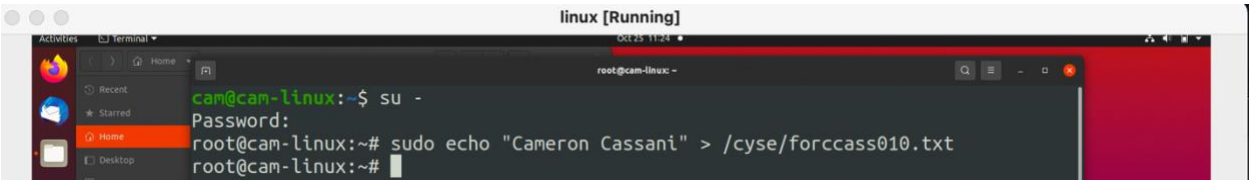
Explanation (Step 4)

- I make a new directory named /cyse using “sudo mkdir /cyse”. I mount the new partition under this directory using “sudo mount /dev/sdb /cyse.



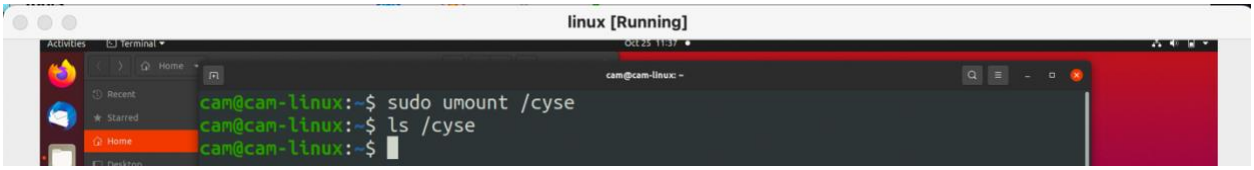
Explanation (Step 5)

- I use the “df” command to check the mounting point of the new partition.



Explanation (Step 6)

- I create a new file “forccass010.txt in
the directory /cyse and put my name in that file using “sudo echo “Cameron Cassani” > /cyse/forccass010.txt”



Explanation (Step 7-8)

- I use “sudo umount /cyse” to unmount the /cyse directory.
- I use “ls /cyse” to check the contents in /cyse directory.
    - No files show up