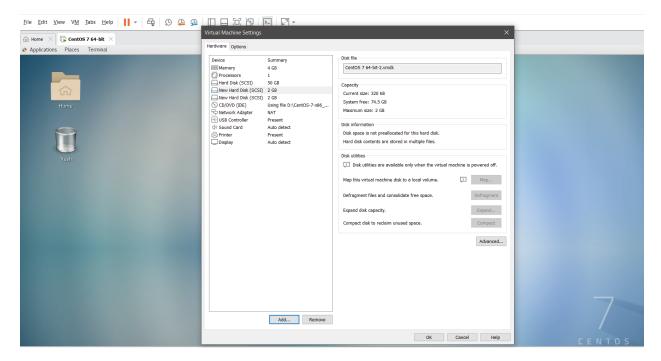
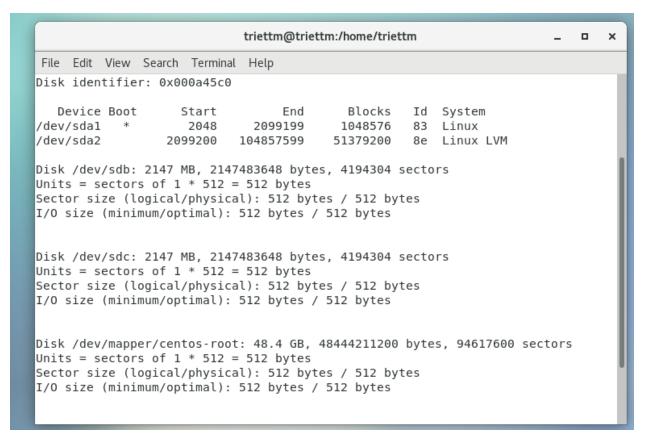
Tên: Trần Minh Triết

MSSV: SE172241



Thêm hai ổ cứng vào máy rồi reboot lại máy.



Add hai ổ cứng thành công vào máy.

```
[root@triettm triettm]# fdisk /dev/sdb
Welcome to fdisk (util-linux 2.23.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Device does not contain a recognized partition table
Building a new DOS disklabel with disk identifier 0x02a77686.
Command (m for help): n
Partition type:
  p primary (0 primary, 0 extended, 4 free)
      extended
Select (default p): p
Partition number (1-4, default 1):
First sector (2048-4194303, default 2048):
Using default value 2048
Last sector, +sectors or +size{K,M,G} (2048-4194303, default 4194303):
Using default value 4194303
Partition 1 of type Linux and of size 2 GiB is set
Command (m for help): w
The partition table has been altered!
Calling ioctl() to re-read partition table.
Syncing disks.
[root@triettm triettm]#
```

Cấu hình partition cho ổ sdb full ổ luôn rồi lưu lại.

```
[root@triettm triettm]# fdisk /dev/sdc
Welcome to fdisk (util-linux 2.23.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Device does not contain a recognized partition table
Building a new DOS disklabel with disk identifier 0x6c7ea0dc.
Command (m for help): n
Partition type:
  p primary (0 primary, 0 extended, 4 free)
      extended
Select (default p): p
Partition number (1-4, default 1):
First sector (2048-4194303, default 2048):
Using default value 2048
Last sector, +sectors or +size{K,M,G} (2048-4194303, default 4194303):
Using default value 4194303
Partition 1 of type Linux and of size 2 GiB is set
Command (m for help): w
The partition table has been altered!
Calling ioctl() to re-read partition table.
Syncing disks.
[root@triettm triettm]#
```

Làm tương tự với ổ sdc.

Tạo raid level 1 tên md0 bằng hai ổ cứng sdb1 và sdc1.

Xem thông tin raid chúng ta vừa tạo

triettm@triettm:/home/triettm File Edit View Search Terminal Help [root@triettm triettm]# mkfs.ext3 /dev/md0 mke2fs 1.42.9 (28-Dec-2013) Filesystem label= OS type: Linux Block size=4096 (log=2) Fragment size=4096 (log=2) Stride=0 blocks, Stripe width=0 blocks 131072 inodes, 523520 blocks 26176 blocks (5.00%) reserved for the super user First data block=0 Maximum filesystem blocks=536870912 16 block groups 32768 blocks per group, 32768 fragments per group 8192 inodes per group Superblock backups stored on blocks: 32768, 98304, 163840, 229376, 294912 Allocating group tables: done Writing inode tables: done Creating journal (8192 blocks): done Writing superblocks and filesystem accounting information: done

Cấu hình ext3 cho raid md0 chúng ta vừa tạo.

```
[root@triettm triettm]# mkdir /raid1
[root@triettm triettm]# mount /dev/md0 /raid1/
[root@triettm triettm]#
```

Mount raid md0 vào folder /raid1/

[root@triettm triettm]#

```
triettm@triettm:/home/triettm
File Edit View Search Terminal Help
# /etc/fstab
# Created by anaconda on Thu Jan 5 11:19:35 2023
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
                                             xfs
/dev/mapper/centos-root /
                                                     defaults
                                                                    0 0
UUID=32ab924c-b23c-446b-a51d-92c636862baa /boot
                                                             xfs
                                                                    defaults
                                                                                     0 0
/dev/mapper/centos-swap swap
                                 swap
                                                     defaults
                                                                    0 0
                     /raid1
/dev/md0
                                             ext3
                                                     defaults
                                                                    0 0
```

Cấu hình ổ cứng vừa mount từ raid ra xong. Mình sẽ tiếp tục với cấu hình quota.

Tạo group test123 và 2 user để thực hiện cấu hình quota.

```
triettm@triettm:/home/triettm
                                                                          ×
File Edit View Search Terminal Help
# /etc/fstab
# Created by anaconda on Thu Jan 5 11:19:35 2023
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
/dev/mapper/centos-root /
                                               xfs
                                                       defaults
                                                                       0 0
UUID=32ab924c-b23c-446b-a51d-92c636862baa /boot
                                                                 xfs
                                                                     defaul
/dev/mapper/centos-swap swap
                                                       defaults
                                               swap
/dev/md0
                                                       defaults,usrquota,grpquo
                      /raidl
                                               ext3
      0 0
ta
-- INSERT --
```

Cấu hình lại trong file fstab.

```
[root@triettm triettm]# vi /etc/fstab
[root@triettm triettm]# mount -o remount /raid1
[root@triettm triettm]#
```

Mount lại sau khi cấu hình.

```
triettm@triettm:/home/triettm _ _ _ _ x

File Edit View Search Terminal Help

[triettm@triettm ~] $ su
Password:
[root@triettm triettm]# quotacheck -mcug /raid1
[root@triettm triettm]# ls -la /raid1
total 36
drwxr-xr-x. 3 root root 4096 Feb 6 11:43 .
dr-xr-xr-x. 18 root root 237 Feb 6 11:23 ..
-rw-----. 1 root root 6144 Feb 6 11:43 aquota.group
-rw-----. 1 root root 6144 Feb 6 11:43 aquota.user
drwx-----. 2 root root 16384 Feb 6 11:21 lost+found
[root@triettm triettm]#
```

triettm@triettm:/home/triettm _						
File Edit View Search Termir	nal Help					
Disk quotas for user userl Filesystem hard	(uid 1001): blocks	soft	hard	inodes	soft	
/dev/md0	0	10240	11000	Θ	0	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
~					- 1	
INSERT						

triettm@triettm:/home/triettm _						
File Edit View Search Terminal	Help					
Disk quotas for user user2 (Filesystem hard	uid 1002): blocks	soft	hard	inodes	soft	
/dev/md0 0	0	10240	11000	0	0	
~						
~						ı
~						ı
~						ı
~						ı
~						ı
~						ı
~						ı
~						ı
~						


```
[root@triettm triettm]# edquota -t
[root@triettm triettm]# quotacheck -mavug
quotacheck: Your kernel probably supports journaled quota but you are not using
it. Consider switching to journaled quota to avoid running quotacheck after an u
nclean shutdown.
quotacheck: Scanning /dev/md0 [/raid1] done
quotacheck: Checked 3 directories and 2 files
[root@triettm triettm]#
```

```
user1@triettm:/raid1
                                                                             ×
File Edit View Search Terminal Help
[triettm@triettm ~]$ su
Password:
[root@triettm triettm]# cd /raid1/
[root@triettm raid1]# ls
aquota.group aquota.user lost+found
[root@triettm raid1]# ls
aquota.group aquota.user lost+found
[root@triettm raid1]# cd ..
[root@triettm /]# ls
bin dev home lib64 mnt proc root sbin sys usr
boot etc lib media opt raid1 run srv
[root@triettm /]# chown root:test123 /raid1
[root@triettm /]# chmod 775 /raid1
[root@triettm /]# su user1
[user1@triettm /]$ cd /raid1/
[user1@triettm raid1]$
```

```
triettm@triettm:/
File Edit View Search Terminal Help
[root@triettm raid1]# cd ..
[root@triettm /]# ls
bin dev home lib64 mnt proc root sbin sys usr
boot etc lib media opt raid1 run srv
                                           tmp var
[root@triettm /]# chown root:test123 /raid1
[root@triettm /]# chmod 775 /raid1
[root@triettm /]# su user1
[user1@triettm /]$ cd /raid1/
[user1@triettm raid1]$ seq 1000 > 1nghin.txt
[user1@triettm raid1]$ ls
lnghin.txt aquota.group aquota.user lost+found
[user1@triettm raid1]$ exit
exit
[root@triettm /]# repquota -a
*** Report for user quotas on device /dev/md0
Block grace time: 01:00; Inode grace time: 01:00
                    Block limits
                                             File limits
User
            used soft hard grace used soft hard grace
root -- 20 0 0
                                           2 0 0
              4 10240 11000
        - -
user1
                                            1
                                                  0
[root@triettm /]#
```