Linux Admin 2 - Lab 4

Name: Muhamad Mamoun Elsaid Hassan

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```
Activities

    Terminal

                                                            Mar 28 14:
 oldsymbol{f 	ext{.}}
                                                          mamoun@red
  -(mamoun@redhat)-[~]
 -$ lsblk -e7
NAME
                    MAJ:MIN RM
                                   SIZE RO TYPE MOUNTPOINTS
sda
                                    20G
                                          0 disk
                       8:0
                               0
  -sda1
                       8:1
                               0
                                     1G
                                          0 part /boot
  -sda2
                       8:2
                               0
                                    19G
                                          0 part
    -rhel_10-root 253:0
                                    17G
                                          0 lvm
                               0
    -rhel_10-swap 253:1
                                     2G
                                                   [SWAP]
                               0
                                          0 lvm
sr0
                      11:0
                               1 1024M
                                          0 rom
   -(mamoun@redhat)-[~]
```

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Activities   Terminal
                                                        Mar 28 15:30
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                                                                                                              Q ≡ ×
 ⅎ
                                                        root@redhat:~
                   MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
sda1
                    8:1 0 1G 0 part /boot
8:2 0 19G 0 part
 rhel_10-root 253:0 0 17G 0 lvm /
rhel_10-swap 253:1 0 2G 0 lvm [SWAP]
db 8:16 0 1G 0 disk
$ parted /dev/sdb mklabel gpt 🔉
Information: You may need to update /etc/fstab.
(root@redhat)-[~]
$ parted /dev/sdb print
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sdb: 1074MB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
Disk Flags:
Number Start End Size File system Name Flags
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Activities 🖸 Terminal
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                                                                                                       ⅎ
                                                    root@redhat:~
$ parted /dev/sdb <<END
> mkpart primary 0% 20%
> mkpart primary 20% 40%
> mkpart primary 40% 60%
> END
Using /dev/sdb
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) mkpart primary 20% 40%
(parted) mkpart primary 40% 60%
(parted)
Information: You may need to update /etc/fstab.
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Mar 28 15:39
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∄
                                                  root@redhat:~
(root@redhat)-[~]
$ parted /dev/sdb print
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sdb: 1074MB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
Disk Flags:
Number Start End Size
1 1049kB 215MB 214MB
                                                     Flags
                                           primary
        215MB 430MB 215MB
                                           primary
        430MB 644MB 214MB
                                           primary
$ parted /dev/sdb <<END
rm 2
GNU Parted 3.5
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) rm 2
(parted) rm 3
(parted)
Information: You may need to update /etc/fstab.
```

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Activities Terminal Mar 28 15:40

root@redhat:-

(root@redhat)-[~]

$ parted /dev/sdb print

Model: ATA VBOX HARDDISK (scsi)

Disk /dev/sdb: 1074MB

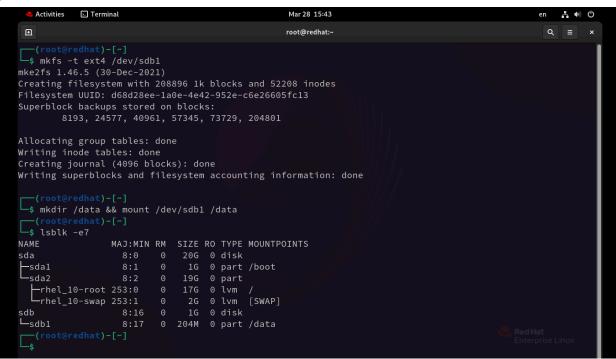
Sector size (logical/physical): 512B/512B

Partition Table: gpt

Disk Flags:

Number Start End Size File system Name Flags

1 1049kB 215MB 214MB primary
```





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Activities 🖸 Terminal
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                                                                                                        Q = x
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                                                     root@redhat:~
__s parted /dev/sdb <<END
> mkpart primary 0% 20%
> mkpart primary 20% 40%
> mkpart primary 40% 60%
> mkpart extended 80% 100%
GNU Parted 3.5
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) mkpart primary 0% 20%
(parted) mkpart primary 20% 40%
(parted) mkpart primary 40% 60%
(parted) mkpart extended 80% 100%
Information: You may need to update /etc/fstab.
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Activities 🖸 Terminal
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                                                                                                          Q = x
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                                                     root@redhat:~
 --- Volume group ---
 VG Name
                         myvg
 System ID
                         lvm2
 Metadata Sequence No 2
                         read/write
 VG Access
 VG Status
                         resizable
 MAX LV
 Open LV
                         2.39 GiB
 VG Size
 PE Size
                         4.00 MiB
 Alloc PE / Size
                         375 / 1.46 GiB
                         237 / 948.00 MiB
M2KBaK-WAOE-tufS-99Jc-gf6X-ob4Q-xc4dMH
 Free PE / Size
VG UUID
```

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Activities 🕟 Terminal
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ⅎ
                                                    root@redhat:~
$ parted /dev/myvg/mylv <<END
> mklabel gpt
> mkpart primary 0% 100%
> END
GNU Parted 3.5
Using /dev/dm-2
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) mklabel gpt
(parted) mkpart primary 0% 100%
(parted)
Information: You may need to update /etc/fstab.
(root@redhat)-[~]
$ mkfs -t ext4 /dev/myvg/mylv
mke2fs 1.46.5 (30-Dec-2021)
/dev/myvg/mylv is apparently in use by the system; will not make a filesystem here!
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Activities 🖸 Terminal
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                                                                                                   root@redhat:~
$ lvextend /dev/myvg/mylv -L 500M /dev/sdd
 New size given (125 extents) not larger than existing size (374 extents)
_s lsblk -e7
                 MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
-sda1
                             204M 0 part
                             205M 0 part
 -sda2
—sda3
—sda4
                             204M 0 part
                                   0 part
                              20G 0 disk
                               1G 0 part /boot
-sdb1
 -sdb2
  rhel_10-root 253:0
rhel_10-swap 253:1
                                   0 lvm [SWAP]
                               2G 0 disk
sdc
└myvg-mylv
                             1.5G
8
(root@redhat)-[~]
```



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