

Assessment 02

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B.E. CSE

II – year

1. Linux Commands

```
ubuntu@ubuntu:~/main$ history
 1  users
 2  who
 3  man
 4  clear
 5  mkdir main
 6  cd main
 7  touch sample.txt
 8  touch demo.txt
 9  ls
10  users
11  whatis mv
12  df -hT
13  df -hT /dev/sr0
14  du -hcs
15  du -h
16  lsblk
17  fdisk -l
18  sudo fdisk -l
19  sudo apt install net-tools
20  ifconfig
```

```

20 ifconfig
21 iwconfig
22 ping google.com
23 netstat
24 netstat -tuln
25 sudo useradd user1
26 su user1
27 sudo su
28 users
29 whoami
30 sudo userdel user1
31 userdel user1
32 ls /proc
33 top
34 sudo apt install htop
35 htop
36 ps
37 free
38 service
39 sudo apt-cache show net-tools
40 sudo apt-cache search package use::searchi
41 history

```

MOUNT AND UNMOUNT

2. List all block devices

```

ubuntu@ubuntu:~$ lsblk
NAME        MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0     3G  1 loop /rofs
loop1        7:1      0      4K  1 loop /snap/bare/5
loop2        7:2      0   63.4M  1 loop /snap/core20/1974
loop3        7:3      0   73.9M  1 loop /snap/core22/858
loop4        7:4      0  237.2M  1 loop /snap/firefox/2987
loop5        7:5      0  349.7M  1 loop /snap/gnome-3-38-2004/143
loop6        7:6      0   91.7M  1 loop /snap/gtk-common-themes/1535
loop7        7:7      0  485.5M  1 loop /snap/gnome-42-2204/120
loop8        7:8      0   53.3M  1 loop /snap/snapd/19457
loop9        7:9      0   12.3M  1 loop /snap/snap-store/959
loop10       7:10     0    452K  1 loop /snap/snapd-desktop-integration/83
sda          8:0      0  25.4G  0 disk
sr0         11:0     1    4.7G  0 rom  /cdrom

```

3. Create a partition

```
ubuntu@ubuntu:~$ sudo fdisk /dev/sda

Welcome to fdisk (util-linux 2.37.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help): n
Partition type
  p   primary (0 primary, 0 extended, 4 free)
  e   extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-53267647, default 2048): 2048
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-53267647, default 53267647): +1G

Created a new partition 1 of type 'Linux' and of size 1 GiB.


Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
```

4. List all block devices

```
ubuntu@ubuntu:~$ sudo lsblk
```

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINTS
loop0	7:0	0	3G	1	loop	/rofs
loop1	7:1	0	4K	1	loop	/snap/bare/5
loop2	7:2	0	63.4M	1	loop	/snap/core20/1974
loop3	7:3	0	73.9M	1	loop	/snap/core22/858
loop4	7:4	0	237.2M	1	loop	/snap/firefox/2987
loop5	7:5	0	349.7M	1	loop	/snap/gnome-3-38-2004/143
loop6	7:6	0	91.7M	1	loop	/snap/gtk-common-themes/1535
loop7	7:7	0	485.5M	1	loop	/snap/gnome-42-2204/120
loop8	7:8	0	53.3M	1	loop	/snap/snapd/19457
loop9	7:9	0	12.3M	1	loop	/snap/snap-store/959
loop10	7:10	0	452K	1	loop	/snap/snapd-desktop-integration/83
sda	8:0	0	25.4G	0	disk	
└─sda1	8:1	0	1G	0	part	
sr0	11:0	1	4.7G	0	rom	/cdrom

5. Make filesystem

```
ubuntu@ubuntu:~$ sudo mkfs.xfs -f /dev/sda1
meta-data=/dev/sda1            isize=512    agcount=4, agsize=65536 blks
                     =                  sectsz=512   attr=2, projid32bit=1
                     =                  crc=1        finobt=1, sparse=1, rmapbt=0
                     =                  reflink=1     bigtime=0 inobtcount=0
data      =                    bsize=4096   blocks=262144, imaxpct=25
                     =                  sunit=0      swidth=0 blks
naming    =version 2           bsize=4096   ascii-ci=0, ftype=1
log       =internal log        bsize=4096   blocks=2560, version=2
                     =                  sectsz=512   sunit=0 blks, lazy-count=1
realtime  =none                extsz=4096   blocks=0, rtextents=0
```

6. Mount

```
ubuntu@ubuntu:~$ sudo mount /dev/sda1 /mnt
```

7. List all block devices

```
ubuntu@ubuntu:~$ sudo lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0   3G  1 loop /rofs
loop1        7:1      0    4K  1 loop /snap/bare/5
loop2        7:2      0 63.4M  1 loop /snap/core20/1974
loop3        7:3      0 73.9M  1 loop /snap/core22/858
loop4        7:4      0 237.2M  1 loop /snap/firefox/2987
loop5        7:5      0 349.7M  1 loop /snap/gnome-3-38-2004/143
loop6        7:6      0  91.7M  1 loop /snap/gtk-common-themes/1535
loop7        7:7      0 485.5M  1 loop /snap/gnome-42-2204/120
loop8        7:8      0  53.3M  1 loop /snap/snapd/19457
loop9        7:9      0  12.3M  1 loop /snap/snap-store/959
loop10       7:10     0   452K  1 loop /snap/snapd-desktop-integration/83
sda          8:0      0 25.4G  0 disk
└─sda1       8:1      0    1G  0 part /mnt
sr0         11:0     1   4.7G  0 rom  /cdrom
```

8. Unmount

```
ubuntu@ubuntu:~$ sudo umount /mnt
```