

LAB 3 – Operating System

Part F –

26 to 33

```
[yyzsuraj@toronto7188 ~]$ history | grep -E 'df|du'
7  df
8  df -h
9  df -i
10 df -Th
11 df -Th /
12 df -th /dev
13 df -Th /run
14 df -Th /dev
16 du /home/yyzsuraj
17 du -h /home/yyzsuraj
18 du -sh /home/yyzsuraj
19 du -h /etc
20 du -h /var/log
21 du -sh /etc
24 history | grep -E 'df|du'
```

Used `sudo sh` after this to execute rest of the commands in elevated state

```
[root@toronto7188 yyzsuraj]# history | grep -E 'df|du'
13 du -h /etc
14 du -h /var/log
15 du -sh /etc
16 du -sh /var/log
17 history | grep -E 'df|du'
18 du -h /home/yyzsuraj
19 du -sh /home/yyzsuraj
20 history | grep -E 'df|du'
```

```

[yyzsaraj@toronto7188 ~]$ lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 32G 0 disk
├─sda1 8:1 0 1G 0 part /boot
├─sda2 8:2 0 31G 0 part
├─rhel-root 253:0 0 27.8G 0 lvm /
└─rhel-swap 253:1 0 3.2G 0 lvm [SWAP]
sdb 8:16 0 100M 0 disk
├─sdb1 8:17 0 99M 0 part /finance
sdc 8:32 0 300M 0 disk
├─sdc1 8:33 0 200M 0 part /logistics
└─sdc2 8:34 0 99M 0 part /purchases
sdd 8:48 0 400M 0 disk
├─sdd1 8:49 0 80M 0 part /tech
├─sdd2 8:50 0 150M 0 part /databases
└─sdd3 8:51 0 169M 0 part /apps
sde 8:64 0 250M 0 disk
sdf 8:80 0 350M 0 disk
sdg 8:96 0 5G 0 disk
sdh 8:112 0 1G 0 disk
sr0 11:0 1 1024M 0 rom

```

```

[yyzsaraj@toronto7188 ~]$ df -Th
Filesystem Type Size Used Avail Use% Mounted on
devtmpfs devtmpfs 1.8G 0 1.8G 0% /dev
tmpfs tmpfs 1.9G 0 1.9G 0% /dev/shm
tmpfs tmpfs 1.9G 0 1.9G 1% /run
tmpfs tmpfs 1.9G 0 1.9G 0% /sys/fs/cgroup
/dev/mapper/rhel-root xfs 28G 15G 13G 54% /
/dev/sda1 xfs 1014M 254M 761M 26% /boot
tmpfs tmpfs 374M 32K 374M 1% /run/user/1001
/dev/sdb1 xfs 94M 5.9M 88M 7% /finance
/dev/sdd1 xfs 75M 4.8M 70M 7% /tech
/dev/sdd2 xfs 145M 8.8M 136M 7% /databases
/dev/sdd3 xfs 164M 9.9M 154M 7% /apps
/dev/sdc1 xfs 195M 12M 184M 6% /logistics
/dev/sdc2 xfs 94M 5.9M 88M 7% /purchases

```

```

[yyzsaraj@toronto7188 ~]$ ls -ld /finance /tech /databases /apps /logistics /purchases
drwxr-xr-x. 2 root root 6 Feb 9 20:01 /apps
drwxr-xr-x. 2 root root 6 Feb 9 20:01 /databases
drwxr-xr-x. 2 root root 6 Feb 9 19:02 /finance
drwxr-xr-x. 2 root root 6 Feb 9 20:04 /logistics
drwxr-xr-x. 2 root root 6 Feb 9 20:05 /purchases
drwxr-xr-x. 2 root root 6 Feb 9 19:19 /tech

```

Part G -

Part J -

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```
[root@montreal7188 yulsuraj]# df -Th /data
Filesystem                                Type      Size      Used Avail Use% Mounted on
/dev/mapper/vg--data-vdo--data            xfs        123M      7.6M   116M    7% /data

[root@montreal7188 yulsuraj]# lsblk
NAME                                MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
sda                                8:0    0  32G  0 disk
├─sda1                            8:1    0    1G  0 part /boot
├─sda2                            8:2    0   31G  0 part
│   └─rhel-root                  253:0    0  27.8G  0 lvm /
│       └─rhel-swap              253:1    0   3.2G  0 lvm [SWAP]
sdb                                8:16    0    5G  0 disk
└─vg--data-vdo--data            253:2    0  128M  0 lvm /data
sdc                                8:32    0    1G  0 disk
sr0                               11:0    1 1024M  0 rom
```

Part K - All commands are run with elevated permissions (sudo su) hence no sudo in the following screenshots

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Montreal

```
[root@montreal7188 yulsuraj]# blkid
/dev/mapper/rhel-swap: UUID="30db5056-f63f-4c2b-a863-e0d3b4a88807" TYPE="swap"
/dev/sdb: UUID="bHJT7x-YkSM-DPMx-d0FE-qcvc-8N55-6b6TZA" TYPE="LVM2_member"
/dev/mapper/vg--data-vdo--data: UUID="49cd42f0-c7a5-43f7-94ac-feb809e1f0ec" BLOCK_SIZE="512" TYPE="xfs"
/dev/mapper/rhel-root: UUID="82511534-a6c0-45b1-b5e7-b01376d5f1af" BLOCK_SIZE="512" TYPE="xfs"
/dev/sda2: UUID="pykwFI-N9lz-cLuJ-GpfU-d980-tKlJ-03oEug" TYPE="LVM2_member" PARTUUID="241669e1-02"
/dev/sda1: UUID="b182a3d2-a9cb-489e-a044-ae1ed10822ef" BLOCK_SIZE="512" TYPE="xfs" PARTUUID="241669e1-01"
[root@montreal7188 yulsuraj]#
```

43 - new password is `root` for both yyz & yul

```
[root@montreal7188 yulsuraj]# passwd root
Changing password for user root.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@montreal7188 yulsuraj]#
```

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```

root@montreal7188:/home/yulsuraj

# /etc/fstab
# Created by anaconda on Wed Aug 10 04:34:22 2022
#
# 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.
#
# After editing this file, run 'systemctl daemon-reload' to update systemd
# units generated from this file.
#
/dev/mapper/rhel-root / xfs defaults 0 0
UUID=b182a3d2-a9cb-489e-a044-ae1ed10822ef /boot xfs defaults 0 0
/dev/mapper/rhel-swap /dev/root swap defaults 0 0
UUID=bHJT7x-YkSM-DPMx-d0FE-qcvc-8N55-6b6TZA /data xfs defaults 0 0

```