

NETWORKING & SYSTEM ADMINISTRATION LAB**Experiment No.: 8****Aim:**

Familiarization of linux commands.

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Roll No: 10

Batch: MCA

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Procedure:

1.sudo useradd username = To add a new user “justin”.

Syntax: \$sudo useradd justin

Output:

```
mca@S10:~$ sudo useradd justin
[sudo] password for mca:
mca@S10:~$ sudo useradd justin
useradd: user 'justin' already exists
```

2.sudo passwd username = To add a password to the newly added user “justin”.

Syntax: \$sudo passwd justin

Output:

```
mca@S10:~$ sudo passwd justin
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

3.sudo groupadd -g id groupname = To add a new group “heal” with id “2022”.

Syntax: \$sudo groupadd -g 2022 heal

Output:

```
mca@S10:~$ sudo groupadd -g 2022 heal
```

4.sudo usermod -G groupname username = To add a new user “justin” to a particular group “heal”.

Syntax: \$sudo usermod -G heal justin

Output:

```
mca@S10:~$ sudo usermod -G heal justin
```

5.id username =to find out user names and numeric ID's of the current user.

Syntax: \$id justin

Output:

```
mca@S10:~$ id justin
uid=1004(justin) gid=2023(justin) groups=2023(justin)
```

6.compgen -g = To view a list of group in the system.

Syntax: \$compngen -g

Output:

```
mca@S10:~$ compngen -g
root
daemon
bin
sys
adm
tty
disk
lp
smbashare
mysql
android
mongodb
student
exam
justin
heal
```

7.compngen -g groupname = To view a list of group with specified starting mentioned in the system.

Syntax: compngen -g heal

Output:

```
mca@S10:~$ compngen -g heal
heal
heal1
heal2
heal3
```

8.sudo userdel username = To delete a user from the system.

Syntax: sudo userdel justin

Output:

```
mca@S10:~$ sudo userdel justin
```

9.sudo groupdel groupname = To delete a group from the system.

Syntax: sudo groupdel heal

Output:

```
mca@S10:~$ sudo groupdel heal
```

10.chmod = used to manage file system access permissions.

(i) **Syntax:** chmod -rwx j.txt

Output:

```
mca@S10:~$ chmod -rwx j.txt
mca@S10:~$ cat >>j.txt
bash: j.txt: Permission denied
```

(ii) **Syntax:** chmod +rwx j.txt

Output:

```
mca@S10:~$ chmod +rwx j.txt
mca@S10:~$ cat >>j.txt
desade
^Z
[2]+  Stopped                  cat >> j.txt
```

11.sudo chown username textname = to change the owner of file system files, directories.

Syntax: sudo chown justin j.txt

Output:

```
mca@S10:~$ sudo chown justin j.txt
mca@S10:~$ ls -l j.txt
----- 1 justin mca 9 Apr 25 14:57 j.txt
```

12. ifconfig -a = used to get the ip address of the corresponding system.

Syntax: ifconfig -a

Output:

```
mca@S10:~$ ifconfig -a
enp3s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.6.10 netmask 255.255.255.0 broadcast 192.168.6.255
    inet6 fe80::3c2d:b358:e5f5:2cd5 prefixlen 64 scopeid 0x20<link>
    ether 1c:87:2c:71:88:92 txqueuelen 1000 (Ethernet)
    RX packets 121090 bytes 48680421 (48.6 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 16145 bytes 2607223 (2.6 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 1231 bytes 99888 (99.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1231 bytes 99888 (99.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

13. ssh mca@(ip_address_of_the_other_computer) = enables secure remote connections between two systems.

Syntax: ssh mca@192.168.6.35

Output:

```
mca@S36:~/Desktop/52/25-04-2022$ sudo ssh mca@192.168.6.35
mca@192.168.6.35's password:
Welcome to Ubuntu 18.04 LTS (GNU/Linux 4.15.0-23-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

1 package can be updated.
0 updates are security updates.

Last login: Mon Oct  4 22:19:46 2021
```