NETWORKING&SYSTEM ADMINISTRATION LAB

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Experiment No.: 8

Aim

 Familiarization of Linux Commands

Procedure

1. sudo useradd

 useradd is a command in Linux that is used to add user accounts to your system.

Syntax :

```
mca@S28:~$ sudo useradd RITTY
[sudo] password for mca:
```

2. sudo passwd

This command is used to create password for the user.

Syntax :

```
mca@S28:~$ sudo passwd RITTY
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

3. sudo groupadd -g

This command is used to create new group.

Syntax :

```
mca@S28:~$ sudo groupadd -g 20000 Network
```

4. usermod

This command is used to add users to the group.

Syntax :

```
mca@S28:~$ sudo usermod -G Network RITTY
```

5. id username

This command which shows the particular belongs to which group.

Syntax :

```
mca@S28:~$ id RITTY
uid=1006(RITTY) gid=1007(RITTY) groups=1007(RITTY),20000(Network)
```

6. compgen -g

This command is used to view all groups.

Syntax :

```
mca@S28:~$ compgen -g
root
daemon
bin
```

```
Rittymariya
RittyMariya
RITTY
Network
netw
netwc
```

7. sudo userdel

This command is used to delete a user and group.

Syntax :

```
mca@S28:~$ sudo userdel Rittymariya
mca@S28:~$ compgen -g
root
daemon
bin
```

```
RITTY
Network
netw
netwc
```

8. compgen -g net

This command is used for view all groups that starts with a particular word.

<u>Syntax :</u>

```
mca@S28:~$ compgen -g net
netdev
netw
netwc
```

9. chmod

This command is used to change directory permission of files (read,write,execute).

$ chmod +rwx filename

$ chmod -wx filename

$ chmod -rwx filename

<u>Syntax :</u>

```
mca@S28:~$ chmod +rwx a.txt
mca@S28:~$ chmod -wx a.txt
mca@S28:~$ cat >> a.txt
bash: a.txt: Permission denied
mca@S28:~$ chmod -rwx a.txt
mca@S28:~$ cat a.txt
cat: a.txt: Permission denied
```

10. sudo chown

This command is used to give ownership to userand ls -l command is used to show the ownership details.

<u>Syntax :</u>

```
mca@S28:~$ sudo chown RITTY a.txt
[sudo] password for mca:
mca@S28:~$ ls -l a.txt
---------- 1 RITTY mca 27 Apr 25 14:51 a.txt
```

11. ssh

This command provides a secure ecncrypted connection between two host over an insecure network

Syntax :

```
mca@S28:~$ sudo ssh mca@192.168.6.35
The authenticity of host '192.168.6.35 (192.168.6.35)' can't be established.
ECDSA key fingerprint is SHA256:jiGV/ZCNmfSiZB7vQz284KUkXOwI+JekZfy2NDHHW5U.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.6.35' (ECDSA) to the list of known hosts.
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 Apr 25 15:55:15 2022 from 192.168.6.41
```

Syntax :