

NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 7

Aim:

Familiarization of linux commands.

Name: SREELAKSHMI R

Roll No: 41

Batch: MCA

Date: 25/04/2022

Procedure:

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

Syntax:

\$sudo useradd Sreelakshmi

Output:

```
mca@S41:~$ sudo useradd Sreelakshmi
[sudo] password for mca:
```

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

Syntax: \$sudo passwd Sreelakshmi

Output:

```
mca@S41:~$ sudo passwd Sreelakshmi
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

3.sudo groupadd -g id groupname = To add a new group “reg” with id “13335”.

Syntax: \$sudo groupadd -g 13335 reg

Output:

```
mca@S41:~$ sudo groupadd -g 13335 reg
```

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

Syntax: \$sudo usermod -G reg Sreelakshmi

Output:

```
mca@S41:~$ sudo usermod -G reg Sreelakshmi
mca@S41:~$ id Sreelakshmi
```

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

Syntax: \$id Sreelakshmi

Output:

```
mca@S41:~$ id Sreelakshmi
uid=1005(Sreelakshmi) gid=1006(Sreelakshmi) groups=1006(Sreelakshmi),13335(reg)
```

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

Syntax: \$compugen -g

Output:

```
mca@S41:~$ compugen -g
root
daemon
bin
sys
adm
tty
disk
lp
mail
news
uucp
man
proxy
kmem
dialout
fax
voice
cdrom
floppy
tape
sudo
audio
dip
www-data
backup
operator
list
irc
src
gnats
shadow
utmp
video
sasl
plugdev
staff
```

```
mca
sambashare
mysql
android
mongodb
kvm
rdma
hadoop
student
exam
Sreelakshmi
reg
RMCA
S2
S3
```

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

Syntax: `compugen -g RMCA`

Output:

```
mca@S41:~$ compugen -g RMCA
RMCA
```

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

Syntax:

`sudo userdel Sreelakshmi`

Output:

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

Syntax: `sudo groupdel S3`

Output:

```
mca@S41:~$ sudo userdel S3
```

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

(i) **Syntax:** `chmod -rwx a.txt`

Output:

```
mca@S41:~$ chmod -rwx a.txt
mca@S41:~$ cat >> a.txt
bash: a.txt: Permission denied
```

(ii) **Syntax:** `chmod +rwx a.txt`

Output:

```
mca@S41:~$ chmod +rwx a.txt
```

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

Syntax:**sudo chown Sreelakshmi b.txt****Output:**

```

mca@S41:~$ sudo chown Sreelakshmi b.txt
mca@S41:~$ ls -l b.txt
-rw-r--r-- 1 Sreelakshmi mca 12 Apr 25 15:06 b.txt

```

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

Syntax: if config -a**Output:**

```

mca@S41:~$ ifconfig -a
enp3s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.6.41 netmask 255.255.255.0 broadcast 192.168.6.255
    inet6 fe80::163f:4f23:1512:6689 prefixlen 64 scopeid 0x20<link>
    ether 08:62:66:48:38:39 txqueuelen 1000 (Ethernet)
    RX packets 110743 bytes 55863220 (55.8 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 25132 bytes 7461614 (7.4 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 3930 bytes 322881 (322.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 3930 bytes 322881 (322.8 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@192.168.6.43](#)**Output:**

```

mca@S41:~$ ssh mca@192.168.6.43
The authenticity of host '192.168.6.43 (192.168.6.43)' can't be established.
ECDSA key fingerprint is SHA256:0HfmkIK7Ny+SEmIXvc7tp2LmN3VPmGsUeu5wwBnGfDA.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.6.43' (ECDSA) to the list of known hosts.
mca@192.168.6.43's password:
Welcome to Ubuntu 18.04.1 LTS (GNU/Linux 4.15.0-33-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

0 packages can be updated.
0 updates are security updates.

Last login: Mon Apr 25 15:42:01 2022 from 192.168.6.51

```

