NETWORKING & SYSTEM ADMINISTRATION LAB

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Familiarization of basic Linux commands.

PROCEDURE

1. **sudo useradd vysh :** command in Linux that is used to add user accounts to your system.

   Syntax : sudo useradd <username>

Output:

```
mca@S54:~$ sudo useradd vysh
[sudo] password for mca:
useradd: user 'vysh' already exists
```

2. **sudo passwd vysh :** passwd command in Linux is used to change the user account passwords.

   Syntax : sudo passwd username

Output:

```
mca@S54:~$ sudo passwd vysh
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

3. **sudo groupadd –g 3000 xyz :** The groupadd command creates a new group account.

   Syntax : sudo groupadd –g <id><group name>

Output:

```
groupadd: uiu  iuz  airtauy txists
mca@S54:~$ sudo groupadd -g 3000 xyz
mca@S54:~$ sudo groupadd -g 3000 xyz
groupadd: group 'xyz' already exists
```

4. **sudo usermod -G xyz vysh :** To change the group of a user

    Syntax : sudo usermod -G <group name><user name>

Output:

```
mca@S54:~$ sudo usermod -G xyz vysh
```

5. **id vysh :** id command in Linux is used to find out user and group names and numeric ID's (UID or group ID) of the current user or any other user in the server.

    Syntax : id<username>

Output :

```
mca@S54:~$ id vysh
uid=1004(vysh) gid=1005(vysh) groups=1005(vysh),3000(xyz)
```

6. **compgen -g** : list all the groups.

    Syntax : compgen -g

Output:

```
mca@S54:~$ compgen -g
root
daemon
bin
sys
adm
tty
disk
lp
```

7. **sudo userdel vysh :** removes user account.

    Syntax : sudo userdel <username>

Output:

```
mca@S54:~$ sudo userdel vysh
```

8. sudo groupdel xyz : delete an existing group.

Syntax : sudo groupdel<group name>

Output:

```
mca@S54:~$ sudo groupdel xyz
```

9. compgen -g kvm: to list the mentioned group.

Syntax : compgen -g <group name>

Output:

```
mca@S54:~$ compgen -g kvm
kvm
```

10.**chmod +rwx a.txt :** to add permissions.

Syntax : chmod +rwx filename

Output:

```
mca@S54:~$ chmod +rwx a.txt
```

11.chmod -wx a.txt : to take out write and executable permissions.

Syntax : chmod -wx filename

Output:

```
mca@S54:~$ chmod -wx a.txt
mca@S54:~$ cat >> a.txt
bash: a.txt: Permission denied
```

12.chmod -rwx a.txt : to remove permissions.

Syntax : chmod -rwx filename

Output:

```
mca@S54:~$ chmod -rwx a.txt
mca@S54:~$ cat a.txt
cat: a.txt: Permission denied
```

13. **sudo chown vismi a.txt :** chown command is used to change a file's ownership, directory, or symbolic link for a user or group.

Syntax : sudo chown user name filename.txt
Output:

```
mca@S54:~$ sudo chown vismi a.txt
mca@S54:~$ ls -l a.txt
--------- 1 vismi mca 9 Apr 25 14:51 a.txt
mca@S54:~$
```