ASSIGNMENT

Basic Linux Commands

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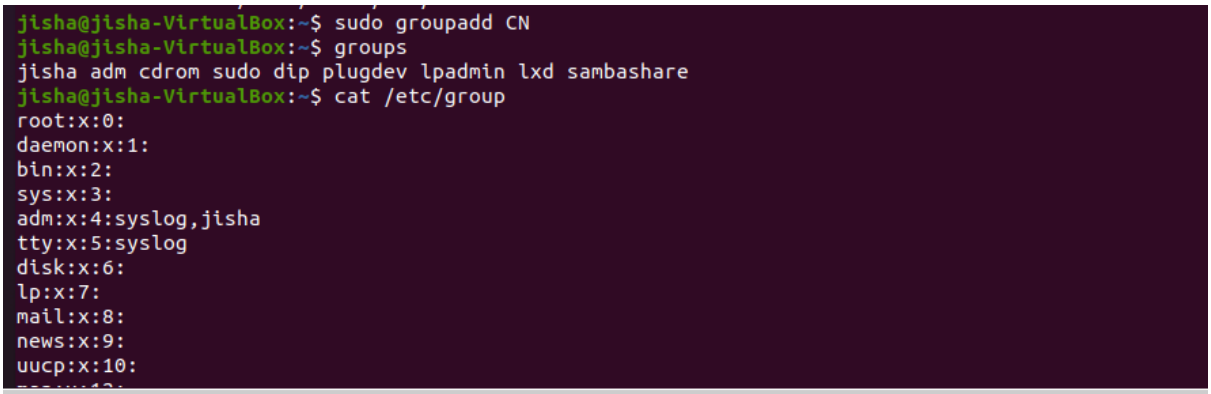
1.usermod

- usermod command is used to change the properties of a user in Linux through the command line

2.groupadd

- groupadd command creates a new group account using the values specified on the command line and the default values from the system.



3.groups –
print the groups a user is in

4..groupdel

- groupdel command modifies the system account files, deleting all entries that refer to group. The named group must exist

```
jisha@jisha-VirtualBox:~$ sudo groupdel CN
jisha@jisha-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,jisha
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:jisha
floppy:x:25:
tape:x:26:
sudo:x:27:jisha
audio:x:29:pulse
dip:x:30:jisha
www-data:x:33:
```

5.groupmod

• The groupmod command modifies the definition of the specified group by modifying the appropriate entry in the group database.

```
jisha@jisha-VirtualBox:~$ sudo groupmod -n CN  flowers
jisha@jisha-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,jisha
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:jisha
floppy:x:25:
tape:x:26:
sudo:x:27:jisha
```

6.chmod

• To change directory permissions of file/ Directory in Linux.

```
jisha@jisha-VirtualBox:~$ chmod u+x ht.txt
jisha@jisha-VirtualBox:~$
```

7.chown

• The chown command allows you to change the user and/or group ownership of a given file, directory.

```
jisha@jisha-VirtualBox:~$ chown jisha  hi.txt
jisha@jisha-VirtualBox:~$ ls -l hi.txt
-rwxrw-r-- 1 jisha jisha 34 Jun 20 09:45 hi.txt
jisha@jisha-VirtualBox:~$
```

8.id

• 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.

```
jisha@jisha-VirtualBox:~$ id
uid=1000(jisha) gid=1000(jisha) groups=1000(jisha),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin),131(lxd),132(sambashare)
jisha@jisha-VirtualBox:~$
```

9.ps

• The ps command, short for Process Status, is a command line utility that is used to display or view information related to the processes running in a Linux system.

```
jisha@jisha-VirtualBox:~$ ps -u
USER         PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
jisha       1109  0.0  0.4 172652  6028 tty2     Ssl+ 11:31   0:00 /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd --session=ubuntu
jisha       1115  0.5  7.0 565248 87304 tty2     Sl+  11:31   0:16 /usr/lib/xorg/Xorg vt2 -displayfd 3 -auth /run/user/1000/gdm/Xauthority -background none -noreset -keeptty -verbose 3
jisha       2031  0.0  1.2 199560 14896 tty2     Sl+  11:31   0:00 /usr/libexec/gnome-session-binary --systemd --systemd --session=ubuntu
jisha       6377  0.0  0.3  19248  4516 pts/0    Ss   11:32   0:00 bash
jisha      15774  1.0  0.2  20132  3248 pts/0    R+   12:21   0:00 ps -u
jisha@jisha-VirtualBox:~$
```

10.top

• top command is used to show the Linux processes. It provides a dynamic real-time view of the running system

```
jisha@jisha-VirtualBox:~$ top

top - 12:22:12 up 51 min,  1 user,  load average: 0.00, 0.03, 0.04
Tasks: 160 total,   1 running, 159 sleeping,   0 stopped,   0 zombie
%Cpu(s):  2.7 us,  0.3 sy,  0.0 ni, 96.9 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1204.4 total,     79.9 free,    630.8 used,    493.7 buff/cache
MiB Swap:    448.5 total,    442.7 free,      5.8 used.    407.6 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   2629 jisha     20   0 3719400 333104 132092 S   2.3  27.0   0:34.16 gnome-shell
   1115 jisha     20   0  565248  87304  53816 S   0.7   7.1   0:17.16 Xorg
   6204 jisha     20   0  823660  50464  37528 S   0.3   4.1   0:08.58 gnome-terminal-
  15775 jisha     20   0   20512   3916   3344 R   0.3   0.3   0:00.04 top
      1 root      20   0  102000  11232   8472 S   0.0   0.9   0:02.04 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-kblockd
      9 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     10 root      20   0       0      0      0 S   0.0   0.0   0:00.17 ksoftirqd/0
     11 root      20   0       0      0      0 I   0.0   0.0   0:00.86 rcu_sched
     12 root      rt   0       0      0      0 S   0.0   0.0   0:00.03 migration/0
     13 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
     14 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     15 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kdevtmpfs
     16 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
     17 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_kthre
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
     19 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
```