

1 Create user

Ram
Sam
Chinky

```
root@bibek-H310M-H-2-0:~# useradd -d /home/sam sam
root@bibek-H310M-H-2-0:~# useradd -d /home/ram ram
root@bibek-H310M-H-2-0:~# useradd -d /home/chinky chinky
root@bibek-H310M-H-2-0:~# tail -n 3 /etc/passwd
sam:x:1001:1001::/home/sam:/bin/sh
ram:x:1002:1002::/home/ram:/bin/sh
chinky:x:1003:1003::/home/chinky:/bin/sh
root@bibek-H310M-H-2-0:~#
```

2 Create group

Cdac
Iacsd

```
root@bibek-H310M-H-2-0:~# groupadd cdac
root@bibek-H310M-H-2-0:~# groupadd iacsd
root@bibek-H310M-H-2-0:~# tail -n 3 /etc/group
chinky:x:1003:
cdac:x:1004:
iacsd:x:1005:
root@bibek-H310M-H-2-0:~#
```

3 Add user ram in cdac

```
root@bibek-H310M-H-2-0:~# usermod -aG cdac ram
root@bibek-H310M-H-2-0:~# tail -n 3 /etc/passwd
sam:x:1001:1001::/home/sam:/bin/sh
ram:x:1002:1002::/home/ram:/bin/sh
chinky:x:1003:1003::/home/chinky:/bin/sh
root@bibek-H310M-H-2-0:~# tail -n 3 /etc/group
chinky:x:1003:
cdac:x:1004:ram
iacsd:x:1005:
root@bibek-H310M-H-2-0:~#
```

- 4 Add user sam in iacsd

```
root@bibek-H310M-H-2-0:~# usermod -aG iacsd sam
root@bibek-H310M-H-2-0:~# tail -n 3 /etc/group
chinky:x:1003:
cdac:x:1004:ram
iacsd:x:1005:sam
root@bibek-H310M-H-2-0:~#
```

- 5 Create file f1 ,f2 ,f3 , f4 in /root with root user

```
root@bibek-H310M-H-2-0:~# nano f1.txt
root@bibek-H310M-H-2-0:~# nano f2.txt
root@bibek-H310M-H-2-0:~# nano f3.txt
root@bibek-H310M-H-2-0:~# nano f4.txt
root@bibek-H310M-H-2-0:~# ls -l
total 20
-rw-r--r-- 1 root root 4 Oct 3 08:33 f1.txt
-rw-r--r-- 1 root root 4 Oct 3 08:33 f2.txt
-rw-r--r-- 1 root root 7 Oct 3 08:34 f3.txt
-rw-r--r-- 1 root root 5 Oct 3 08:34 f4.txt
drwxr-xr-x 3 root root 4096 Sep 30 14:11 snap
```

- 6 Ram should have rwx on f4

```
root@bibek-H310M-H-2-0:~# chmod o=rwx f4.txt
root@bibek-H310M-H-2-0:~# ls -l f4.txt
-rw-rwxrwx+ 1 root root 5 Oct 3 08:34 f4.txt
root@bibek-H310M-H-2-0:~#
```

- 7 Chinky should be user owner for file f1

```
root@bibek-H310M-H-2-0:~# chown chinky f1.txt
root@bibek-H310M-H-2-0:~# ls -l
total 20
-rw-r--r-- 1 chinky root    4 Oct  3 08:33 f1.txt
-rw-r--r-- 1 root   root    4 Oct  3 08:33 f2.txt
-rw-r--r-- 1 root   root    7 Oct  3 08:34 f3.txt
-rw-r--r-- 1 root   root    5 Oct  3 08:34 f4.txt
drwxr-xr-x 3 root   root 4096 Sep 30 14:11 snap
root@bibek-H310M-H-2-0:~#
```

- 8 Sam should be userowner for f2

```
root@bibek-H310M-H-2-0:~# chown sam f2.txt
root@bibek-H310M-H-2-0:~# ls -l
total 20
-rw-r--r-- 1 chinky root    4 Oct  3 08:33 f1.txt
-rw-r--r-- 1 sam    root    4 Oct  3 08:33 f2.txt
-rw-r--r-- 1 root   root    7 Oct  3 08:34 f3.txt
-rw-r--r-- 1 root   root    5 Oct  3 08:34 f4.txt
drwxr-xr-x 3 root   root 4096 Sep 30 14:11 snap
root@bibek-H310M-H-2-0:~#
```

- 9 Cdac should be groupowner for f3

```
root@bibek-H310M-H-2-0:~# chgrp cdac f3.txt
root@bibek-H310M-H-2-0:~# ls -l
total 20
-rw-r--r-- 1 chinky root    4 Oct  3 08:33 f1.txt
-rw-r--r-- 1 sam    root    4 Oct  3 08:33 f2.txt
-rw-r--r-- 1 root   cdac    7 Oct  3 08:34 f3.txt
-rw-r--r-- 1 root   root    5 Oct  3 08:34 f4.txt
drwxr-xr-x 3 root   root 4096 Sep 30 14:11 snap
root@bibek-H310M-H-2-0:~#
```

10 Cdac should have read permission on f3

```
root@bibek-H310M-H-2-0:~# chmod g+r f3.txt
root@bibek-H310M-H-2-0:~# ls -l
total 20
-rw-r--r-- 1 chinky root 4 Oct 3 08:33 f1.txt
-rw-r--r-- 1 sam root 4 Oct 3 08:33 f2.txt
-rw-r--r-- 1 root cdac 7 Oct 3 08:34 f3.txt
-rw-r--r-- 1 root root 5 Oct 3 08:34 f4.txt
drwxr-xr-x 3 root root 4096 Sep 30 14:11 snap
root@bibek-H310M-H-2-0:~#
```

11 iacsd should have full access on f4

```
root@bibek-H310M-H-2-0:~# chgrp iacsd f4.txt
root@bibek-H310M-H-2-0:~# ls -l f4.txt
-rw-rwxrwx+ 1 root iacsd 5 Oct 3 08:34 f4.txt
root@bibek-H310M-H-2-0:~#
```