

## Task – 4 Commands

### User Management commands:

Adding user:

```
[ec2-user@ip-172-31-23-31 ~]$ sudo su -
[root@ip-172-31-23-31 ~]# adduser rubika
[root@ip-172-31-23-31 ~]# adduser ranji
[root@ip-172-31-23-31 ~]# adduser jacky
[root@ip-172-31-23-31 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel Overflow User:/sbin/nologin
dbus:x:81:81:system message bus:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/usr/sbin/nologin
systemd-oom:x:999:999:systemd Userspace OOM Killer:/usr/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/usr/sbin/nologin
sshd:x:74:74:privilege-separated SSH:/usr/share/empty.sshd:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
libstoragemgmt:x:997:997:daemon account for libstoragemgmt:/usr/sbin/nologin
systemd-coredump:x:996:996:systemd Core Dumper:/usr/sbin/nologin
systemd-timesync:x:995:995:systemd Time Synchronization:/usr/sbin/nologin
chrony:x:994:994:chrony system user:/var/lib/chrony:/sbin/nologin
ec2-instance-connect:x:993:993:/home/ec2-instance-connect:/sbin/nologin
stapunpriv:x:159:159:systemtap unprivileged user:/var/lib/stapunpriv:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
tcpdump:x:72:72::/sbin/nologin
ec2-user:x:1000:1000:EC2 Default User:/home/ec2-user:/bin/bash
rubika:x:1001:1001::/home/rubika:/bin/bash
```

Listing user:

```
rubika:x:1001:1001::/home/rubika:/bin/bash
ranji:x:1002:1002::/home/ranji:/bin/bash
jacky:x:1003:1003::/home/jacky:/bin/bash
[root@ip-172-31-23-31 ~]# |
```

Deleting user:

```
[root@ip-172-31-23-31 ~]# userdel jacky
[root@ip-172-31-23-31 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel Overflow User:/sbin/nologin
dbus:x:81:81:system message bus:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/usr/sbin/nologin
systemd-oom:x:999:999:systemd Userspace OOM Killer:/usr/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/usr/sbin/nologin
sshd:x:74:74:privilege-separated SSH:/usr/share/empty.sshd:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
libstoragemgmt:x:997:997:daemon account for libstoragemgmt:/usr/sbin/nologin
systemd-coredump:x:996:996:systemd Core Dumper:/usr/sbin/nologin
systemd-timesync:x:995:995:systemd Time Synchronization:/usr/sbin/nologin
chrony:x:994:994:chrony system user:/var/lib/chrony:/sbin/nologin
ec2-instance-connect:x:993:993:/home/ec2-instance-connect:/sbin/nologin
stapunpriv:x:159:159:systemtap unprivileged user:/var/lib/stapunpriv:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
tcpdump:x:72:72::/sbin/nologin
ec2-user:x:1000:1000:EC2 Default User:/home/ec2-user:/bin/bash
rubika:x:1001:1001::/home/rubika:/bin/bash
ranji:x:1002:1002::/home/ranji:/bin/bash
[root@ip-172-31-23-31 ~]# |
```

Adding groups:

```
[root@ip-172-31-23-31 ~]# groupadd rubygrp
[root@ip-172-31-23-31 ~]# groupadd ranjigrp
[root@ip-172-31-23-31 ~]# cat /etc/group
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:ec2-user
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:ec2-user
cdrom:x:11:
mail:x:12:
man:x:15:
dialout:x:18:
floppy:x:19:
games:x:20:
```

Listing groups:

```
rubika:x:1001:
ranji:x:1002:
rubygrp:x:1003:
ranjigrp:x:1004:
[root@ip-172-31-23-31 ~]# |
```

Deleting groups:

```
[root@ip-172-31-23-31 ~]# groupdel ranjigrp
[root@ip-172-31-23-31 ~]# cat /etc/group
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:ec2-user
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:ec2-user
cdrom:x:11:
mail:x:12:
man:x:15:
dialout:x:18:
floppy:x:19:
```

List of groups after deleting one group:

```
rubika:x:1001:
ranji:x:1002:
rubygrp:x:1003:
[root@ip-172-31-23-31 ~]# |
```

Password:

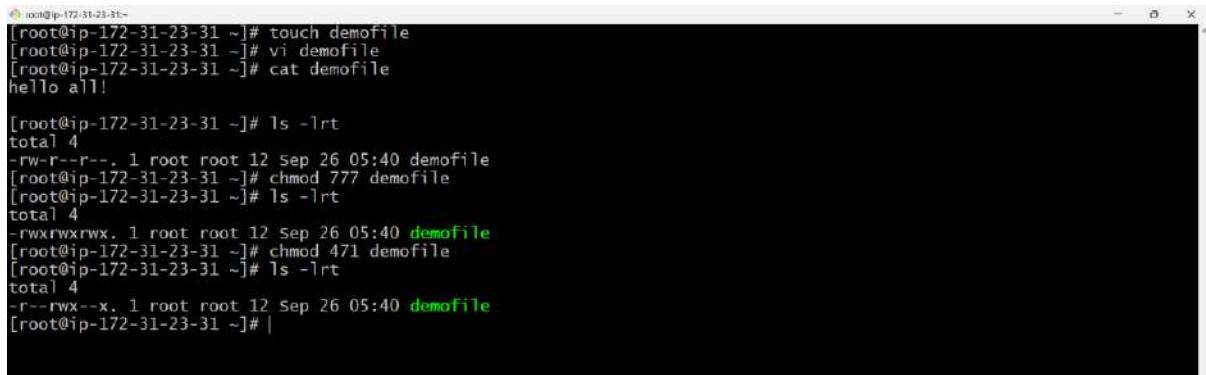
```
[root@ip-172-31-23-31 ~]# passwd rubika
Changing password for user rubika.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-23-31 ~]# |
```

```
rubika:$6$6Ts7.HklKKo6qraC$AnyCJxVF0pHksonguAtoL.pJ1MLonfsCzLxjvTTRU3XJn5j5Rn9TNs754UJSY1RvK0o/7m7ZPQTUwqBxp/aZt.:2035
7:0:99999:7:::
ranji:!::20357:0:99999:7:::
[root@ip-172-31-23-31 ~]# |
```

Listing user and groups that we want:

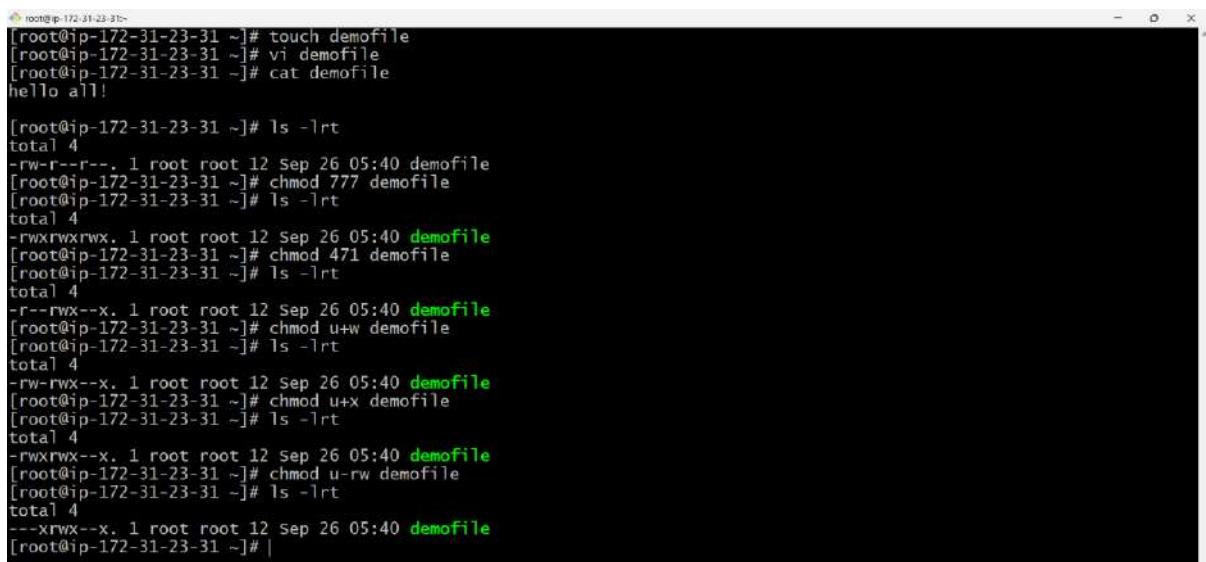
```
[root@ip-172-31-23-31 ~]# cat /etc/passwd | grep rubika
rubika:x:1001:1001::/home/rubika:/bin/bash
[root@ip-172-31-23-31 ~]# cat /etc/group | grep rubygrp
rubygrp:x:1003:
[root@ip-172-31-23-31 ~]# |
```

## File Management Commands:



```
[root@ip-172-31-23-31 ~]# touch demofile
[root@ip-172-31-23-31 ~]# vi demofile
[root@ip-172-31-23-31 ~]# cat demofile
hello all!

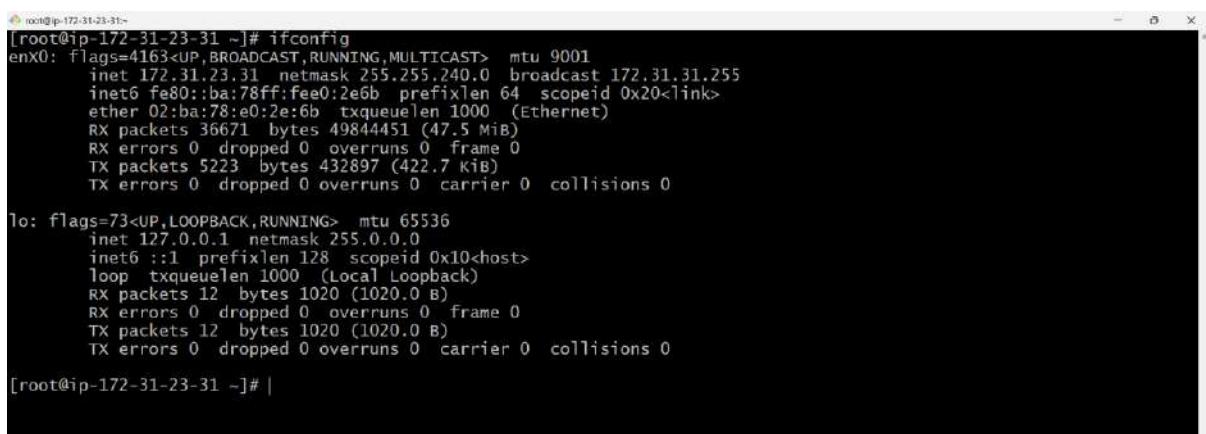
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-rw-r--r--. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# chmod 777 demofile
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-rwxrwxrwx. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# chmod 471 demofile
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-r--rwx--x. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# |
```



```
[root@ip-172-31-23-31 ~]# touch demofile
[root@ip-172-31-23-31 ~]# vi demofile
[root@ip-172-31-23-31 ~]# cat demofile
hello all!

[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-rw-r--r--. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# chmod 777 demofile
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-rwxrwxrwx. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# chmod 471 demofile
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-r--rwx--x. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# chmod u+w demofile
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-rw-rwx--x. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# chmod u+x demofile
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
-rwxrwx--x. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# chmod u-rw demofile
[root@ip-172-31-23-31 ~]# ls -lrt
total 4
---xrwx--x. 1 root root 12 Sep 26 05:40 demofile
[root@ip-172-31-23-31 ~]# |
```

## Networking Commands:



```
[root@ip-172-31-23-31 ~]# ifconfig
en0x0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
    inet 172.31.23.31 brd 172.31.31.255 netmask 255.255.240.0
        broadcast 172.31.31.255
        inet6 fe80::ba:78ff:fe0:2e6b brd fe80::ff:fe0:2e6b/128 scopeid 0x20<link>
            ether 02:ba:78:e0:2e:6b txqueuelen 1000 (Ethernet)
            RX packets 36671 bytes 49844451 (47.5 MiB)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 5223 bytes 432897 (422.7 KiB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 brd 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 brd ::1/128 scopeid 0x10<host>
            loop txqueuelen 1000 (Local Loopback)
            RX packets 12 bytes 1020 (1020.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 12 bytes 1020 (1020.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@ip-172-31-23-31 ~]# |
```



```
[root@ip-172-31-23-31 ~]# ping 47.129.31.96
PING 47.129.31.96 (47.129.31.96) 56(84) bytes of data.
```

```
[root@ip-172-31-23-31 ec2-user]# wget https://templatemo.com/download/templatemo_596_electric_xtra
--2025-09-26 05:57:50-- https://templatemo.com/download/templatemo_596_electric_xtra
Resolving templatemo.com (templatemo.com) ... 72.52.176.250
Connecting to templatemo.com (templatemo.com)|72.52.176.250|:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://templatemo.com/tm-zip-files-2020/templatemo_596_electric_xtra.zip [following]
--2025-09-26 05:57:52-- https://templatemo.com/tm-zip-files-2020/templatemo_596_electric_xtra.zip
Connecting to templatemo.com (templatemo.com)|72.52.176.250|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11330 (11k) [application/zip]
Saving to: 'templatemo_596_electric_xtra'

templatemo_596_electric_xtra      100%[=====] 11.06K --.-KB/s   in 0s
2025-09-26 05:57:53 (236 MB/s) - 'templatemo_596_electric_xtra' saved [11330/11330]
[root@ip-172-31-23-31 ec2-user]# |
```

## Disk Management Commands:

```
[root@ip-172-31-23-31 ~]# du -h
4.0K    ./ssh
20K

[root@ip-172-31-23-31 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M    0  4.0M  0% /dev
tmpfs          475M    0  475M  0% /dev/shm
tmpfs          190M  452K  190M  1% /run
/dev/xvda1     8.0G  1.6G  6.5G  20% /
tmpfs          475M    0  475M  0% /tmp
/dev/xvda128   10M  1.3M  8.7M  13% /boot/efi
tmpfs          95M    0  95M  0% /run/user/1000
[root@ip-172-31-23-31 ~]# free -h
              total        used        free      shared  buff/cache   available
Mem:      949Mi       121Mi      605Mi      0.0Ki     222Mi      690Mi
Swap:            0B         0B         0B

[root@ip-172-31-23-31 ~]# |
```