

cat /etc/passwd

sudo useradd user1 -g 1001

```
akram@localhost:~  
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin  
sssd:x:995:991:User for sssd:/:/sbin/nologin  
libstoragemgmt:x:994:990:daemon account for libstoragemgmt:/var/run/lsm:/sbin/nologin  
setroubleshoot:x:993:989:SELinux troubleshoot server:/var/lib/setroubleshoot:/sbin/nologin  
pipewire:x:992:987:PipeWire System Daemon:/var/run/pipewire:/sbin/nologin  
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin  
geoclue:x:991:986:User for geoclue:/var/lib/geoclue:/sbin/nologin  
flatpak:x:990:985:User for flatpak system helper:/:/sbin/nologin  
gdm:x:42:42:/var/lib/gdm:/sbin/nologin  
cockpit-ws:x:989:984:User for cockpit web service:/nonexisting:/sbin/nologin  
cockpit-wsinstance:x:988:983:User for cockpit-ws instances:/nonexisting:/sbin/nologin  
gnome-initial-setup:x:987:982:/run/gnome-initial-setup:/sbin/nologin  
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/sbin/nologin  
chrony:x:986:981:/var/lib/chrony:/sbin/nologin  
dnsmasq:x:985:980:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/sbin/nologin  
tcpdump:x:72:72:/:/sbin/nologin  
systemd-oom:x:978:978:systemd Userspace OOM Killer:/usr/sbin/nologin  
akram:x:1000:1000:Akram :/home/akram:/bin/bash  
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin  
user1:x:1001:1001:/home/user1:/bin/bash  
[akram@localhost ~]$
```

```
akram@localhost:~  
sssd:x:991:  
libstoragemgmt:x:990:  
setroubleshoot:x:989:  
brlapi:x:988:  
pipewire:x:987:  
avahi:x:70:  
geoclue:x:986:  
flatpak:x:985:  
gdm:x:42:  
cockpit-ws:x:984:  
cockpit-wsinstance:x:983:  
gnome-initial-setup:x:982:  
sshd:x:74:  
chrony:x:981:  
slocate:x:21:  
dnsmasq:x:980:  
tcpdump:x:72:  
sgx:x:979:  
systemd-oom:x:978:  
akram:x:1000:  
apache:x:48:  
user1:x:1001:  
group1:x:1002:  
[akram@localhost ~]$ sudo usermod user1 -g 1002
```

```
akram@localhost:~  
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin  
sssd:x:995:991:User for sssd:/:/sbin/nologin  
libstoragemgmt:x:994:990:daemon account for libstoragemgmt:/var/run/lsm:/sbin/nologin  
setroubleshoot:x:993:989:SELinux troubleshoot server:/var/lib/setroubleshoot:/sbin/nologin  
pipewire:x:992:987:PipeWire System Daemon:/var/run/pipewire:/sbin/nologin  
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin  
geoclue:x:991:986:User for geoclue:/var/lib/geoclue:/sbin/nologin  
flatpak:x:990:985:User for flatpak system helper:/:/sbin/nologin  
gdm:x:42:42:/var/lib/gdm:/sbin/nologin  
cockpit-ws:x:989:984:User for cockpit web service:/nonexisting:/sbin/nologin  
cockpit-wsinstance:x:988:983:User for cockpit-ws instances:/nonexisting:/sbin/nologin  
gnome-initial-setup:x:987:982:/run/gnome-initial-setup:/sbin/nologin  
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/sbin/nologin  
chrony:x:986:981:/var/lib/chrony:/sbin/nologin  
dnsmasq:x:985:980:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/sbin/nologin  
tcpdump:x:72:72:/:/sbin/nologin  
systemd-oom:x:978:978:systemd Userspace OOM Killer:/usr/sbin/nologin  
akram:x:1000:1000:Akram :/home/akram:/bin/bash  
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin  
user1:x:1001:1002:/home/user1:/bin/bash  
[akram@localhost ~]$
```

mkdir {os-concepts,ubuntu-is-the-best}

```
akram@localhost:~  
[akram@localhost ~]$ mkdir {os-concepts,ubuntu-is-the-best}  
[akram@localhost ~]$ ls  
cat  Documents  Music  Pictures  Templates  Videos  
Desktop  Downloads  os-concepts  Public  ubuntu-is-the-best  
[akram@localhost ~]$
```

cd os-concepts

touch file1,file2

ls

```
akram@localhost:~/os-concepts
[akram@localhost ~]$ mkdir {os-concepts,ubuntu-is-the-best}
[akram@localhost ~]$ ls
cat      Documents  Music      Pictures  Templates  Videos
Desktop  Downloads  os-concepts  Public    ubuntu-is-the-best
[akram@localhost ~]$ cd os-concepts/
[akram@localhost os-concepts]$ touch file1,file2
[akram@localhost os-concepts]$ ls
file1,file2
[akram@localhost os-concepts]$
```

```
akram@localhost:~/ubuntu-is-the-best
[akram@localhost ~]$ mkdir {os-concepts,ubuntu-is-the-best}
[akram@localhost ~]$ ls
cat      Documents  Music      Pictures  Templates  Videos
Desktop  Downloads  os-concepts  Public    ubuntu-is-the-best
[akram@localhost ~]$ cd os-concepts/
[akram@localhost os-concepts]$ touch file1,file2
[akram@localhost os-concepts]$ ls
file1,file2
[akram@localhost os-concepts]$ cd ..
[akram@localhost ~]$ cd ubuntu-is-the-best/
[akram@localhost ubuntu-is-the-best]$ touch file1,file2
[akram@localhost ubuntu-is-the-best]$ ls
file1,file2
[akram@localhost ubuntu-is-the-best]$ rm file1,file2
[akram@localhost ubuntu-is-the-best]$ ls
[akram@localhost ubuntu-is-the-best]$ touch file1.txt,file2.txt
[akram@localhost ubuntu-is-the-best]$ ls
file1.txt,file2.txt
[akram@localhost ubuntu-is-the-best]$ ls -l
total 0
-rw-rw-r--. 1 akram akram 0 Oct  8 12:41 file1.txt,file2.txt
[akram@localhost ubuntu-is-the-best]$
```

```
akram@localhost:~/ubuntu-is-the-best
[akram@localhost ~]$ cd ubuntu-is-the-best/
[akram@localhost ubuntu-is-the-best]$ ls -l
total 0
-rw-rw-r--. 1 akram akram 0 Oct  8 12:41 file1.txt,file2.txt
[akram@localhost ubuntu-is-the-best]$ chmod 640 file1.txt,file2.txt
[akram@localhost ubuntu-is-the-best]$ ls -l
total 0
-rw-r-----. 1 akram akram 0 Oct  8 12:41 file1.txt,file2.txt
[akram@localhost ubuntu-is-the-best]$
```

```
akram@localhost:~  
[akram@localhost ~]$ sudo groupadd -g 1010 newgroup  
[akram@localhost ~]$ cat /etc/group | tail  
slocate:x:21:  
dnsmasq:x:980:  
tcpdump:x:72:  
sgx:x:979:  
systemd-oom:x:978:  
akram:x:1000:  
apache:x:48:  
user1:x:1001:  
group1:x:1002:  
newgroup:x:1010:  
[akram@localhost ~]$
```

```
akram@localhost:~/ubuntu-is-the-best  
[akram@localhost ubuntu-is-the-best]$ sudo chown :newgroup file1.txt,file2.txt  
[akram@localhost ubuntu-is-the-best]$
```

```
akram@localhost:~  
slocate:x:21:  
dnsmasq:x:980:  
tcpdump:x:72:  
sgx:x:979:  
systemd-oom:x:978:  
akram:x:1000:  
apache:x:48:  
user1:x:1001:  
group1:x:1002:  
newgroup:x:1010:  
[akram@localhost ~]$ sudo usermod -a -G newgroup user1  
[sudo] password for akram:  
[akram@localhost ~]$ cat /etc/group | tail  
slocate:x:21:  
dnsmasq:x:980:  
tcpdump:x:72:  
sgx:x:979:  
systemd-oom:x:978:  
akram:x:1000:  
apache:x:48:  
user1:x:1001:  
group1:x:1002:  
newgroup:x:1010:user1  
[akram@localhost ~]$
```

```
akram@localhost:~  
user1:x:1001:  
group1:x:1002:  
newgroup:x:1010:  
[akram@localhost ~]$ sudo usermod -a -G newgroup user1  
[sudo] password for akram:  
[akram@localhost ~]$ cat /etc/group | tail  
slocate:x:21:  
dnsmasq:x:980:  
tcpdump:x:72:  
sgx:x:979:  
systemd-oom:x:978:  
akram:x:1000:  
apache:x:48:  
user1:x:1001:  
group1:x:1002:  
newgroup:x:1010:user1  
[akram@localhost ~]$ echo "crash" > ~/os-concepts/crash.in  
[akram@localhost ~]$ echo "crash" > ~/ubuntu-is-the-best/crash.in  
[akram@localhost ~]$ echo "crash" > ~/Desktop/crash.in  
[akram@localhost ~]$ find ~/ -name "crash.in"  
/home/akram/Desktop/crash.in  
/home/akram/os-concepts/crash.in  
/home/akram/ubuntu-is-the-best/crash.in  
[akram@localhost ~]$
```

```
akram@localhost:~/ubuntu-is-the-best  
[akram@localhost ~]$ find ~/ -name "crash.in" -print0 | xargs -0 sed -i 's/crash  
/broken/g'  
[akram@localhost ~]$ cd ubuntu-is-the-best/  
[akram@localhost ubuntu-is-the-best]$ cat crash.in  
broken  
[akram@localhost ubuntu-is-the-best]$
```