

User and Group Management

Useradd:

```
[root@vbox ~]# cd /home
[root@vbox home]# ls
Gunjan sakshi
[root@vbox home]# cat /etc/passwd
cat: /etc/passwd: No such file or directory
[root@vbox home]# 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
systemd-coredump:x:999:999:systemd Core Dumper:/sbin/nologin
dbus:x:81:81:System message bus:/sbin/nologin
polkitd:x:998:998:User for polkitd:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/sbin/nologin
libstoragemgmt:x:996:996:daemon account for libstoragemgmt:/usr/sbin/nologin
geoclue:x:995:995:User for geoclue:/var/lib/geoclue:/sbin/nologin
tss:x:59:59:Account used for TPM access:/usr/sbin/nologin
colord:x:994:994:User for colord:/var/lib/colord:/sbin/nologin
sssd:x:993:993:User for sssd:/sbin/nologin
clevis:x:992:992:clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:991:991:SELinux troubleshoot server:/var/lib/setroubleshoot:/usr/sbin/nologin
pipewire:x:990:990:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin
flatpak:x:989:989:Flatpak system helper:/usr/sbin/nologin
gdm:x:42:42:GNOME Display Manager:/var/lib/gdm:/usr/sbin/nologin
gnome-initial-setup:x:988:987:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:987:986:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:986:985:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:/sbin/nologin
sakshi:x:1000:1000:Sakshi:/home/sakshi:/bin/bash
Gunjan:x:1001:1001:/home/Gunjan:/bin/bash
[root@vbox home]#
```

Usermod:

```
[root@vbox home]# usermod -u 1007 Gunjan
[root@vbox home]# 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
systemd-coredump:x:999:999:systemd Core Dumper:/sbin/nologin
dbus:x:81:81:System message bus:/sbin/nologin
polkitd:x:998:998:User for polkitd:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/sbin/nologin
libstoragemgmt:x:996:996:daemon account for libstoragemgmt:/usr/sbin/nologin
geoclue:x:995:995:User for geoclue:/var/lib/geoclue:/sbin/nologin
tss:x:59:59:Account used for TPM access:/usr/sbin/nologin
colord:x:994:994:User for colord:/var/lib/colord:/sbin/nologin
sssd:x:993:993:User for sssd:/sbin/nologin
clevis:x:992:992:clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:991:991:SELinux troubleshoot server:/var/lib/setroubleshoot:/usr/sbin/nologin
pipewire:x:990:990:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin
flatpak:x:989:989:Flatpak system helper:/usr/sbin/nologin
gdm:x:42:42:GNOME Display Manager:/var/lib/gdm:/usr/sbin/nologin
gnome-initial-setup:x:988:987:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:987:986:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:986:985:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:/sbin/nologin
sakshi:x:1000:1000:Sakshi:/home/sakshi:/bin/bash
Gunjan:x:1007:1001:/home/Gunjan:/bin/bash
```

```
[root@vbox home]# usermod -g 1000 Gunjan
[root@vbox home]# 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
systemd-coredump:x:999:999:systemd Core Dumper:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:998:998:User for polkitd:/:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/:/sbin/nologin
libstoragemgmt:x:996:996:daemon account for libstoragemgmt:/usr/sbin/nologin
geoclue:x:995:995:User for geoclue:/var/lib/geoclue:/sbin/nologin
tss:x:59:59:Account used for TPM access:/usr/sbin/nologin
colord:x:994:994:User for colord:/var/lib/colord:/sbin/nologin
sssd:x:993:993:User for sssd:/:/sbin/nologin
clevis:x:992:992:Clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:991:991:SELinux troubleshoot server:/var/lib/setroubleshoot:/usr/sbin/nologin
pipewire:x:990:990:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin
flatpak:x:989:989:Flatpak system helper:/usr/sbin/nologin
gdm:x:42:42:GNOME Display Manager:/var/lib/gdm:/usr/sbin/nologin
gnome-initial-setup:x:988:987:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:987:986:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:986:985:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:/:/sbin/nologin
sakshi:x:1000:1000:Sakshi:/home/sakshi:/bin/bash
Gunjan:x:1007:1000:/home/Gunjan:/bin/bash
```

```
Gunjan:x:1007:1000:/home/Gunjan:/bin/bash
[root@vbox home]# usermod -c "Linux" Gunjan
[root@vbox home]# 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
systemd-coredump:x:999:999:systemd Core Dumper:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:998:998:User for polkitd:/:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/:/sbin/nologin
libstoragemgmt:x:996:996:daemon account for libstoragemgmt:/usr/sbin/nologin
geoclue:x:995:995:User for geoclue:/var/lib/geoclue:/sbin/nologin
tss:x:59:59:Account used for TPM access:/usr/sbin/nologin
colord:x:994:994:User for colord:/var/lib/colord:/sbin/nologin
sssd:x:993:993:User for sssd:/:/sbin/nologin
clevis:x:992:992:Clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:991:991:SELinux troubleshoot server:/var/lib/setroubleshoot:/usr/sbin/nologin
pipewire:x:990:990:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin
flatpak:x:989:989:Flatpak system helper:/usr/sbin/nologin
gdm:x:42:42:GNOME Display Manager:/var/lib/gdm:/usr/sbin/nologin
gnome-initial-setup:x:988:987:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:987:986:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:986:985:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:/:/sbin/nologin
sakshi:x:1000:1000:Sakshi:/home/sakshi:/bin/bash
Gunjan:x:1007:1000:Linux:/home/Gunjan:/bin/bash
```

```
[root@vbox home]# usermod -d /home/sakshi Gunjan
[root@vbox home]# 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
systemd-coredump:x:999:999:systemd Core Dumper:/sbin/nologin
dbus:x:81:81:System message bus:/sbin/nologin
polkitd:x:998:998:User for polkitd:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/sbin/nologin
libstoragemgmt:x:996:996:daemon account for libstoragemgmt:/usr/sbin/nologin
geoclue:x:995:995:User for geoclue:/var/lib/geoclue:/sbin/nologin
tss:x:59:59:Account used for TPM access:/usr/sbin/nologin
colord:x:994:994:User for colord:/var/lib/colord:/sbin/nologin
sssd:x:993:993:User for sssd:/sbin/nologin
clevis:x:992:992:Clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:991:991:SELinux troubleshoot server:/var/lib/setroubleshoot:/usr/sbin/nologin
pipewire:x:990:990:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin
flatpak:x:989:989:Flatpak system helper:/usr/sbin/nologin
gdm:x:42:42:GNOME Display Manager:/var/lib/gdm:/usr/sbin/nologin
gnome-initial-setup:x:988:987:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:987:986:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:986:985:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:/sbin/nologin
sakshi:x:1000:1000:Sakshi:/home/sakshi:/bin/bash
Gunjan:x:1007:1000:Linux:/home/sakshi:/bin/bash
[root@vbox home]#
```

```
[root@vbox home]# usermod -s /bin/nologin Gunjan
usermod: Warning: missing or non-executable shell '/bin/nologin'
[root@vbox home]# 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
systemd-coredump:x:999:999:systemd Core Dumper:/sbin/nologin
dbus:x:81:81:System message bus:/sbin/nologin
polkitd:x:998:998:User for polkitd:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/sbin/nologin
libstoragemgmt:x:996:996:daemon account for libstoragemgmt:/usr/sbin/nologin
geoclue:x:995:995:User for geoclue:/var/lib/geoclue:/sbin/nologin
tss:x:59:59:Account used for TPM access:/usr/sbin/nologin
colord:x:994:994:User for colord:/var/lib/colord:/sbin/nologin
sssd:x:993:993:User for sssd:/sbin/nologin
clevis:x:992:992:Clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:991:991:SELinux troubleshoot server:/var/lib/setroubleshoot:/usr/sbin/nologin
pipewire:x:990:990:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin
flatpak:x:989:989:Flatpak system helper:/usr/sbin/nologin
gdm:x:42:42:GNOME Display Manager:/var/lib/gdm:/usr/sbin/nologin
gnome-initial-setup:x:988:987:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:987:986:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:986:985:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:/sbin/nologin
sakshi:x:1000:1000:Sakshi:/home/sakshi:/bin/bash
Gunjan:x:1007:1000:Linux:/home/sakshi:/bin/nologin
[root@vbox home]# su - Gunjan
su: warning: cannot change directory to /home/sakshi: Permission denied
su: failed to execute /bin/nologin: No such file or directory
[root@vbox home]#
```