

Shadow and Group Management

Shadow:

```
[root@vbox ~]# chage -l Mentore
Last password change           : Jun 23, 2025
Password expires                : Jun 30, 2025
Password inactive              : never
Account expires                : never
Minimum number of days between password change : 3
Maximum number of days between password change : 7
Number of days of warning before password expires : 3
[root@vbox ~]# chage -m 2 Mentore
[root@vbox ~]# date
Tuesday 24 June 2025 07:35:12 PM IST
[root@vbox ~]# date -s "25 Jun 2025 19:35"
Wednesday 25 June 2025 07:35:00 PM IST
[root@vbox ~]# su - Mentore
[Mentore@vbox ~]$ passwd
Changing password for user Mentore.
Current password:
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[Mentore@vbox ~]$ passwd
Changing password for user Mentore.
Current password:
You must wait longer to change your password.
passwd: Authentication token manipulation error
```

```
[root@vbox ~]# chage -M 8 Mentore
[root@vbox ~]# chage -l Mentore
Last password change           : Jun 24, 2025
Password expires                : Jul 02, 2025
Password inactive              : never
Account expires                : never
Minimum number of days between password change : 2
Maximum number of days between password change : 8
Number of days of warning before password expires : 3
[root@vbox ~]# su - Raksha
[Raksha@vbox ~]$
logout
[root@vbox ~]# date -s "28 Jun 2025 19:38"
Saturday 28 June 2025 07:38:00 PM IST
[root@vbox ~]# su - Raksha
[Raksha@vbox ~]$ su - Mentore
Password:
[Mentore@vbox ~]$ passwd
Changing password for user Mentore.
Current password:
passwd: Authentication token manipulation error
[Mentore@vbox ~]$ passwd
Changing password for user Mentore.
Current password:
passwd: Authentication token manipulation error
[Mentore@vbox ~]$ passwd
Changing password for user Mentore.
Current password:
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[Mentore@vbox ~]$
```

```

[root@vbox ~]# chage -W 3 Mentore
[root@vbox ~]# chage -l Mentore
Last password change           : Jun 24, 2025
Password expires                : Jul 02, 2025
Password inactive               : never
Account expires                 : never
Minimum number of days between password change : 2
Maximum number of days between password change : 8
Number of days of warning before password expires : 3
[root@vbox ~]# date -s "1 Jul 2025 19:43"
Tuesday 01 July 2025 07:43:00 PM IST
[root@vbox ~]# su - Raksha
[Raksha@vbox ~]$ su - Mentore
Password:
Warning: your password will expire in 1 day.
[Mentore@vbox ~]$

```

```

[root@vbox ~]# chage -I 10 Mentore
[root@vbox ~]# chage -l Mentore
Last password change           : Jun 24, 2025
Password expires                : Jul 02, 2025
Password inactive               : Jul 12, 2025
Account expires                 : never
Minimum number of days between password change : 2
Maximum number of days between password change : 8
Number of days of warning before password expires : 3
[root@vbox ~]# date -s "11 Jul 2025 19:44"
Friday 11 July 2025 07:44:00 PM IST
[root@vbox ~]# su - Raksha
[Raksha@vbox ~]$ su - Mentore
Password:
You are required to change your password immediately (password expired).
Current password:

```

```

[root@vbox ~]# chage -E "13 Jul 2025" Mentore
[root@vbox ~]# chage -l Mentore
Last password change           : Jun 24, 2025
Password expires                : Jul 02, 2025
Password inactive               : Jul 12, 2025
Account expires                 : Jul 13, 2025
Minimum number of days between password change : 2
Maximum number of days between password change : 8
Number of days of warning before password expires : 3
[root@vbox ~]# date -s "13 Jul 2025 19:46"
Sunday 13 July 2025 07:46:00 PM IST
[root@vbox ~]# su - Raksha
[Raksha@vbox ~]$ su - Mentore
Password:
Your account has expired; please contact your system administrator.
su: User account has expired
[Raksha@vbox ~]$

```

Group Management:

```
[root@vbox ~]# groupadd -g 1111 Sonali
```

```
[root@vbox ~]# cat /etc/group
```

```
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:
cdrom:x:11:
mail:x:12:
man:x:15:
dialout:x:18:
floppy:x:19:
games:x:20:
tape:x:33:
video:x:39:
ftp:x:50:
lock:x:54:
audio:x:63:
users:x:100:
nobody:x:65534:
utmp:x:22:
```

```
colord:x:994:
sssd:x:993:
clevi:x:992:
setroubleshoot:x:991:
pipewire:x:990:
flatpak:x:989:
brlapi:x:988:
gdm:x:42:
gnome-initial-setup:x:987:
sshd:x:74:
chrony:x:986:
slocate:x:21:
dnsmasq:x:985:
tcpdump:x:72:
sakshi:x:1000:
Gunjan:x:1001:
Sakshi:x:1002:
User1:x:1003:
gunjan:x:1004:
Raksha:x:1005:
User4:x:1007:
User5:x:1008:
User6:x:1009:
Mentore:x:1010:
Sonali:x:1111:
[root@vbox ~]#
```

```
[root@vbox ~]# groupmod -n Sona Sonali
[root@vbox ~]# tail cat /etc/group
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/group <==
Gunjan:x:1001:
Sakshi:x:1002:
User1:x:1003:
gunjan:x:1004:
Raksha:x:1005:
User4:x:1007:
User5:x:1008:
User6:x:1009:
Mentore:x:1010:
Sona:x:1111:
[root@vbox ~]#
```

```
[root@vbox ~]# groupmod -g 1112 Sona
[root@vbox ~]# tail cat /etc/group
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/group <==
Gunjan:x:1001:
Sakshi:x:1002:
User1:x:1003:
gunjan:x:1004:
Raksha:x:1005:
User4:x:1007:
User5:x:1008:
User6:x:1009:
Mentore:x:1010:
Sona:x:1112:
[root@vbox ~]#
```

```

[root@vbox ~]# groupmod -g 1112 Sona
[root@vbox ~]# tail cat /etc/group
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/group <==
Gunjan:x:1001:
Sakshi:x:1002:
User1:x:1003:
gunjan:x:1004:
Raksha:x:1005:
User4:x:1007:
User5:x:1008:
User6:x:1009:
Mentore:x:1010:
Sona:x:1112:
[root@vbox ~]# gpasswd Sona
Changing the password for group Sona
New Password:
Re-enter new password:
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
Sona:$6$qnw.tcM3uT90JQPl$Bs2lVR5LD6.mKwQeraNAH2./hD3B2Lf1B0.dMHBeZ91M0LsrWcuxvHvQMjbzw7S8/rtTPGSYkgzZHhtzNNrbR/::
[root@vbox ~]#

```

```

[root@vbox ~]# gpasswd -a Sakshi Sona
Adding user Sakshi to group Sona
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
Sona:$6$qnw.tcM3uT90JQPl$Bs2lVR5LD6.mKwQeraNAH2./hD3B2Lf1B0.dMHBeZ91M0LsrWcuxvHvQMjbzw7S8/rtTPGSYkgzZHhtzNNrbR/::Sakshi
[root@vbox ~]#

```

```

[root@vbox ~]# gpasswd -d Sakshi Sona
Removing user Sakshi from group Sona
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
Sona:$6$qnw.tcM3uT90JQPl$Bs2lVR5LD6.mKwQeraNAH2./hD3B2Lf1B0.dMHBeZ91M0LsrWcuxvHvQMjbzw7S8/rtTPGSYkgzZHhtzNNrbR/::
[root@vbox ~]#

```

```
[root@vbox ~]# gpasswd -M Raksha,Mentore Sona
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
Sona:$6$qnw.tcM3uT90JQPl$Bs2lVR5LD6.mKwQeraNAH2./hD3B2Lf1B0.dMHBz91M0LsrWcuxvHvQMjbzw7S8/rtTPGSYkgzZHhtzNNrbR/::Raksha,Mentore
[root@vbox ~]#
```

```
[root@vbox ~]# gpasswd -r Sona
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
Sona:::Raksha,Mentore
[root@vbox ~]#
```

```
[root@vbox ~]# gpasswd -A Mentore Sona
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
Sona::Mentore:Raksha,Mentore
[root@vbox ~]#
```

```
[root@vbox ~]# gpasswd -A "" Sona
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
Sona:::Raksha,Mentore
[root@vbox ~]#
```

```
[root@vbox ~]# groupdel Sona
[root@vbox ~]# tail cat /etc/gshadow
tail: cannot open 'cat' for reading: No such file or directory
==> /etc/gshadow <==
sakshi:::
Gunjan:::
Sakshi:::
User1:::
gunjan:::
Raksha:::
User4:::
User5:::
User6:::
Mentore:::
[root@vbox ~]#
```

Hide Unhide password and group file:

```
[root@vbox ~]# pwunconv
[root@vbox ~]# cat /etc/shadow
cat: /etc/shadow: No such file or directory
[root@vbox ~]#
```

```
[root@vbox ~]# pwconv
[root@vbox ~]# cat /etc/shadow
root:$6$rounds=100000$LEQKpYP7mpHbIXXx$VBmGf9dqTtzVyBCzTiEksPi7Poc1CkmaffX.8ifvzV8X4wawJ4vkgAijebEH8Yq26D/lyIo3ml9BVxDmHcr6v/:
20282:0:99999:7:::
bin:!:20282:0:99999:7:::
daemon:!:20282:0:99999:7:::
adm:!:20282:0:99999:7:::
lp:!:20282:0:99999:7:::
sync:!:20282:0:99999:7:::
shutdown:!:20282:0:99999:7:::
halt:!:20282:0:99999:7:::
mail:!:20282:0:99999:7:::
operator:!:20282:0:99999:7:::
games:!:20282:0:99999:7:::
ftp:!:20282:0:99999:7:::
nobody:!:20282:0:99999:7:::
systemd-coredump:!!:20282:0:99999:7:::
dbus:!!:20282:0:99999:7:::
polkitd:!!:20282:0:99999:7:::
avahi:!!:20282:0:99999:7:::
tkit:!!:20282:0:99999:7:::
libstoragemgmt:!:20282:0:99999:7:::
geoclue:!!:20282:0:99999:7:::
ss:!!:20282:0:99999:7:::
colord:!!:20282:0:99999:7:::
sssd:!!:20282:0:99999:7:::
cups:!!:20282:0:99999:7:::
setroubleshoot:!!:20282:0:99999:7:::
pipewire:!!:20282:0:99999:7:::
flatpak:!!:20282:0:99999:7:::
xdm:!!:20282:0:99999:7:::
gnome-initial-setup:!!:20282:0:99999:7:::
smbd:!!:20282:0:99999:7:::
```

```
[root@vbox ~]# grpunconv
[root@vbox ~]# cat /etc/gshadow
cat: /etc/gshadow: No such file or directory
[root@vbox ~]#
```

```
[root@vbox ~]# grpconv
[root@vbox ~]# cat /etc/gshadow
root:::
bin:::
daemon:::
sys:::
adm:::
tty:::
disk:::
lp:::
mem:::
kmem:::
wheel:::
cdrom:::
mail:::
man:::
dialout:::
floppy:::
games:::
tape:::
video:::
ftp:::
lock:::
audio:::
```


