kishori@kishori-virtual-machine:~$ sudo addgroup test

Adding group `test' (GID 1002) ...

Done.

kishori@kishori-virtual-machine:~$ groups

kishori adm cdrom sudo dip plugdev lpadmin lxd sambashare

root@kishori-virtual-machine:~# cat /etc/group

root:x:0:

daemon:x:1:

bin:x:2:

sys:x:3:

adm:x:4:syslog,kishori

tty:x:5:

disk:x:6:

lp:x:7:

mail:x:8:

news:x:9:

uucp:x:10:

man:x:12:

proxy:x:13:

kmem:x:15:

dialout:x:20:

fax:x:21:

voice:x:22:

cdrom:x:24:kishori

floppy:x:25:

tape:x:26:

sudo:x:27:kishori

audio:x:29:pulse

dip:x:30:kishori

www-data:x:33:

backup:x:34:

operator:x:37:

list:x:38:

irc:x:39:

src:x:40:

gnats:x:41:

shadow:x:42:

utmp:x:43:

video:x:44:

sasl:x:45:

plugdev:x:46:kishori

staff:x:50:

games:x:60:

users:x:100:

nogroup:x:65534:

systemd-journal:x:101:

systemd-network:x:102:

systemd-resolve:x:103:

crontab:x:104:

messagebus:x:105:

systemd-timesync:x:106:

input:x:107:

sgx:x:108:

kvm:x:109:

render:x:110:

syslog:x:111:

\_ssh:x:112:

tss:x:113:

bluetooth:x:114:

ssl-cert:x:115:

uuidd:x:116:

systemd-oom:x:117:

tcpdump:x:118:

avahi-autoipd:x:119:

netdev:x:120:

avahi:x:121:

lpadmin:x:122:kishori

rtkit:x:123:

whoopsie:x:124:

sssd:x:125:

fwupd-refresh:x:126:

nm-openvpn:x:127:

scanner:x:128:saned

saned:x:129:

colord:x:130:

geoclue:x:131:

pulse:x:132:

pulse-access:x:133:

gdm:x:134:

lxd:x:135:kishori

kishori:x:1000:

sambashare:x:136:kishori

hva:x:1001:

test:x:1002:

root@kishori-virtual-machine:~# useradd -G test nginx

root@kishori-virtual-machine:~# passwd nginx

New password:

BAD PASSWORD: The password contains the user name in some form

Retype new password:

passwd: password updated successfully

root@kishori-virtual-machine:~#

root@kishori-virtual-machine:~# cat /etc/group

root:x:0:

daemon:x:1:

bin:x:2:

sys:x:3:

adm:x:4:syslog,kishori

tty:x:5:

disk:x:6:

lp:x:7:

mail:x:8:

news:x:9:

uucp:x:10:

man:x:12:

proxy:x:13:

kmem:x:15:

dialout:x:20:

fax:x:21:

voice:x:22:

cdrom:x:24:kishori

floppy:x:25:

tape:x:26:

sudo:x:27:kishori

audio:x:29:pulse

dip:x:30:kishori

www-data:x:33:

backup:x:34:

operator:x:37:

list:x:38:

irc:x:39:

src:x:40:

gnats:x:41:

shadow:x:42:

utmp:x:43:

video:x:44:

sasl:x:45:

plugdev:x:46:kishori

staff:x:50:

games:x:60:

users:x:100:

nogroup:x:65534:

systemd-journal:x:101:

systemd-network:x:102:

systemd-resolve:x:103:

crontab:x:104:

messagebus:x:105:

systemd-timesync:x:106:

input:x:107:

sgx:x:108:

kvm:x:109:

render:x:110:

syslog:x:111:

\_ssh:x:112:

tss:x:113:

bluetooth:x:114:

ssl-cert:x:115:

uuidd:x:116:

systemd-oom:x:117:

tcpdump:x:118:

avahi-autoipd:x:119:

netdev:x:120:

avahi:x:121:

lpadmin:x:122:kishori

rtkit:x:123:

whoopsie:x:124:

sssd:x:125:

fwupd-refresh:x:126:

nm-openvpn:x:127:

scanner:x:128:saned

saned:x:129:

colord:x:130:

geoclue:x:131:

pulse:x:132:

pulse-access:x:133:

gdm:x:134:

lxd:x:135:kishori

kishori:x:1000:

sambashare:x:136:kishori

hva:x:1001:

test:x:1002:nginx

nginx:x:1003:

root@kishori-virtual-machine:~# sudo su - nginx

kishori@kishori-virtual-machine:/$ sudo -i

[sudo] password for kishori:

root@kishori-virtual-machine:~#

root@kishori-virtual-machine:~# cd /home/

root@kishori-virtual-machine:/home# ls

hello.txt kishori

root@kishori-virtual-machine:/home# mkdir nginx

root@kishori-virtual-machine:/home# chmod -R 750 nginx

root@kishori-virtual-machine:/home# ll

total 16

drwxr-xr-x 4 root root 4096 Sep 7 18:14 ./

drwxr-xr-x 21 root root 4096 Sep 6 16:36 ../

-rw-r--r-- 1 root root 0 Sep 6 22:10 hello.txt

drwxr-x--- 14 kishori kishori 4096 Sep 6 20:39 kishori/

drwxr-x--- 2 root root 4096 Sep 7 18:14 nginx/

root@kishori-virtual-machine:/home# chown -R nginx:test nginx/

root@kishori-virtual-machine:/home# ll

total 16

drwxr-xr-x 4 root root 4096 Sep 7 18:14 ./

drwxr-xr-x 21 root root 4096 Sep 6 16:36 ../

-rw-r--r-- 1 root root 0 Sep 6 22:10 hello.txt

drwxr-x--- 14 kishori kishori 4096 Sep 6 20:39 kishori/

drwxr-x--- 2 nginx test 4096 Sep 7 18:14 nginx/

root@kishori-virtual-machine:/home#

kishori@kishori-virtual-machine:~$ sudo su

[sudo] password for kishori:

root@kishori-virtual-machine:/home/kishori# cd /home/nginx

root@kishori-virtual-machine:/home/nginx# cd ..

root@kishori-virtual-machine:/home# ls

hello.txt kishori nginx

root@kishori-virtual-machine:/home# chown -v nginx home/

chown: cannot access 'home/': No such file or directory

failed to change ownership of 'home/' to nginx

root@kishori-virtual-machine:/home# chown -v nginx /home

changed ownership of '/home' from root to nginx

root@kishori-virtual-machine:/home#

pwd

/home/nginx

$ cd ..

$ pwd

/home

$ ls -lrt

total 12

drwxr-x--- 14 kishori kishori 4096 Sep 6 20:39 kishori

-rw-r--r-- 1 root root 0 Sep 6 22:10 hello.txt

drwxrwxr-x 2 nginx nginx 4096 Sep 7 18:32 score

-rw-rw-r-- 1 nginx nginx 0 Sep 7 18:33 cricket.txt

drwxr-x--- 14 nginx test 4096 Sep 7 18:42 nginx

$ chmod g-w cricket.txt

$ ls -lrt

total 12

drwxr-x--- 14 kishori kishori 4096 Sep 6 20:39 kishori

-rw-r--r-- 1 root root 0 Sep 6 22:10 hello.txt

drwxrwxr-x 2 nginx nginx 4096 Sep 7 18:32 score

-rw-r--r-- 1 nginx nginx 0 Sep 7 18:33 cricket.txt

drwxr-x--- 14 nginx test 4096 Sep 7 18:42 nginx

$ cat cricket.txt

$ less cricket.txt

$ whoami

nginx

$ cp cricket.txt /home/score

$ ls -lhtra

total 20K

drwxr-xr-x 21 root root 4.0K Sep 6 16:36 ..

drwxr-x--- 14 kishori kishori 4.0K Sep 6 20:39 kishori

-rw-r--r-- 1 root root 0 Sep 6 22:10 hello.txt

-rw-r--r-- 1 nginx nginx 0 Sep 7 18:33 cricket.txt

drwxr-xr-x 5 nginx root 4.0K Sep 7 19:20 .

-rw-r--r-- 1 nginx nginx 0 Sep 7 19:20 ''$'\033\033'

drwxr-x--- 14 nginx test 4.0K Sep 7 19:21 nginx

drwxrwxr-x 2 nginx nginx 4.0K Sep 7 19:23 score

$ ls -l score

total 0

-rw-r--r-- 1 nginx nginx 0 Sep 7 19:23 cricket.txt