

```

ubridge:x:149:ubuntu
libvirt:x:141:ubuntu
libvirt-qemu:x:64055:libvirt-qemu
libvirt-dnsmasq:x:142:
hduser:x:1002:
myadmin:x:1003:
ubuntu@groupB2:~/C2$ sudo usermod -a -G myadmin hduser
ubuntu@groupB2:~/C2$ group hduser

Command 'group' not found, did you mean:

  command 'groups' from deb coreutils (8.30-3ubuntu2)
  command 'grop' from deb grop (2:0.10-1.1build1)

Try: sudo apt install <deb name>

ubuntu@groupB2:~/C2$ groups hduser
hduser : hduser myadmin
ubuntu@groupB2:~/C2$ sudo usermod -aG sudo hduser
ubuntu@groupB2:~/C2$ grep '^sudo' /etc/group
sudo:x:27:ubuntu,hduser
ubuntu@groupB2:~/C2$ ls /home
hduser lost+found ubuntu universe
ubuntu@groupB2:~/C2$ sudo mkdir /home/ubuntu/group_c2
ubuntu@groupB2:~/C2$ sudo chown hduser /home/ubuntu/group_c2
ubuntu@groupB2:~/C2$ ls /home/ubuntu
Android C2 Desktop Documents Downloads group_B2 group_c2 Music Pictures Public R Templates Videos weka.log
ubuntu@groupB2:~/C2$ ls /home
hduser lost+found ubuntu universe
ubuntu@groupB2:~/C2$ ls -l /home/ubuntu
total 56
drwxrwxr-x 3 ubuntu ubuntu 4096 Jul 22 2022 Android
drwxrwxr-x 2 ubuntu ubuntu 4096 Feb  8 20:19 C2
drwxr-xr-x 4 ubuntu ubuntu 4096 Feb  6 19:31 Desktop
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Documents
drwxr-xr-x 5 ubuntu ubuntu 4096 Feb  8 19:32 Downloads
drwxr-xr-x 2 hduser root 4096 Feb  6 19:55 group_B2
drwxr-xr-x 2 hduser root 4096 Feb  8 20:20 group_c2
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Public
drwxrwxr-x 3 ubuntu ubuntu 4096 Jul 22 2022 R
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Videos
-rw-rw-r-- 1 ubuntu ubuntu 178 Jul 22 2022 weka.log
ubuntu@groupB2:~/C2$

```

See the hostnamectl(1) man page for details.

```
ubuntu@groupB2:~/C2$ hostnamectl
Static hostname: groupB2
Icon name: computer-desktop
Chassis: desktop
Machine ID: 1314d48e936543d691a4a9534e21ee13
Boot ID: a805924c7268465b831c9d8e6e2a3f85
Operating System: Ubuntu 20.04.4 LTS
Kernel: Linux 5.15.0-41-generic
Architecture: x86-64
```

```
ubuntu@groupB2:~/C2$ sudo hostnamectl set --hostname --static groupc2
hostnamectl [OPTIONS...] COMMAND ...
```

Commands:

status	Show current hostname settings
set-hostname NAME	Set system hostname
set-icon-name NAME	Set icon name for host
set-chassis NAME	Set chassis type for host
set-deployment NAME	Set deployment environment for host
set-location NAME	Set location for host

Options:

-h --help	Show this help
--version	Show package version
--no-ask-password	Do not prompt for password
-H --host=[USER@]HOST	Operate on remote host
-M --machine=CONTAINER	Operate on local container
--transient	Only set transient hostname
--static	Only set static hostname
--pretty	Only set pretty hostname

See the hostnamectl(1) man page for details.

```
ubuntu@groupB2:~/C2$ sudo hostnamectl set --hostname --static groupc2
```

```
ubuntu@groupB2:~/C2$ hostnamectl
Static hostname: groupc2
Transient hostname: groupB2
Icon name: computer-desktop
Chassis: desktop
Machine ID: 1314d48e936543d691a4a9534e21ee13
Boot ID: a805924c7268465b831c9d8e6e2a3f85
Operating System: Ubuntu 20.04.4 LTS
Kernel: Linux 5.15.0-41-generic
Architecture: x86-64
```

```
ubuntu@groupB2:~/C2$
```

```

sudo: change: command not found
ubuntu@group82:~/C2$ sudo chage -E groupc2 hduser
chage: invalid date 'groupc2'
Usage: chage [options] LOGIN

Options:
-d, --lastday LAST_DAY      set date of last password change to LAST_DAY
-E, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
-h, --help                  display this help message and exit
-i, --iso8601               use YYYY-MM-DD when printing dates
-I, --inactive INACTIVE     set password inactive after expiration
                             to INACTIVE
-l, --list                  show account aging information
-m, --mindays MIN_DAYS      set minimum number of days before password
                             change to MIN_DAYS
-M, --maxdays MAX_DAYS     set maximum number of days before password
                             change to MAX_DAYS
-R, --root CHROOT_DIR       directory to chroot into
-W, --warndays WARN_DAYS    set expiration warning days to WARN_DAYS

ubuntu@group82:~/C2$ sudo chage -E 2023-04-30 hduser
ubuntu@group82:~/C2$ sudo chage -M 78 hduser
ubuntu@group82:~/C2$ sudo chage -l hduser
Last password change          : Feb 08, 2023
Password expires              : Apr 27, 2023
Password inactive             : never
Account expires               : Apr 30, 2023
Minimum number of days between password change : 0
Maximum number of days between password change : 78
Number of days of warning before password expires : 7
ubuntu@group82:~/C2$ su - hduser
Password:
$ pwd
/home/hduser
$ cal
  February 2023
Su Mo Tu We Th Fr Sa
                1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28

$ mkdir groupc2dir
$ cd groupc2dir
$
```

```
$ exit
ubuntu@groupB2:~/C2$ sudo groupadd nyadmin
ubuntu@groupB2:~/C2$ cat /etc/group
```

```
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,ubuntu
tty:x:5:syslog
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:ubuntu
floppy:x:25:
tape:x:26:
sudo:x:27:ubuntu
audio:x:29:pulse
dip:x:30:ubuntu
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:ubuntu
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
systemd-timesync:x:104:
```

```
File Edit View Terminal Tabs Help

systemd-timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
kvm:x:108:
render:x:109:
syslog:x:110:
tss:x:111:
bluetooth:x:112:
ssl-cert:x:113:
uucdd:x:114:
mlocate:x:115:
tcpdump:x:116:
avahi-autoipd:x:117:
rtkit:x:118:
ssh:x:119:
netdev:x:120:
lpadmin:x:121:ubuntu
lightdm:x:122:
nopasswdlogin:x:123:
avahi:x:124:
scanner:x:125:saned
sane:x:126:
whoopsie:x:127:
colord:x:128:
pulse:x:129:
pulse-access:x:130:
lxd:x:131:ubuntu
ubuntu:x:1000:
sambashare:x:132:ubuntu
systemd-coredump:x:999:
universe:x:1001:
ftp:x:133:
wireshark:x:134:
rdma:x:135:
geoclue:x:136:
mysql:x:137:
vboxusers:x:138:
usrp:x:139:
ubridge:x:140:ubuntu
libvirt:x:141:ubuntu
libvirt-qemu:x:64055:libvirt-qemu
libvirt-dnsmasq:x:142:
hduser:x:1002:
myadmin:x:1003:
ubuntu@groupB2: ~/C2$
```

```
Architecture: x86_64
ubuntu@group82:~/C2$ sudo useradd -n hduser
ubuntu@group82:~/C2$ sudo passwd hduser
New password:
Retype new password:
passwd: password updated successfully
ubuntu@group82:~/C2$ sudo change -E 2023-04-30 hduser
sudo: change: command not found
ubuntu@group82:~/C2$ sudo change -E 2023-04-30 hduser
sudo: change: command not found
ubuntu@group82:~/C2$ sudo change -E 2023-04-30 hduser
sudo: change: command not found
ubuntu@group82:~/C2$ sudo change -E 2023-02-08 hduser
sudo: change: command not found
ubuntu@group82:~/C2$ sudo change -E groupc2 hduser
sudo: change: command not found
ubuntu@group82:~/C2$ sudo chage -E groupc2 hduser
chage: invalid date 'groupc2'
Usage: chage [options] LOGIN

Options:
  -d, --lastday LAST_DAY      set date of last password change to LAST_DAY
  -E, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
  -h, --help                  display this help message and exit
  -i, --iso8601               use YYYY-MM-DD when printing dates
  -I, --inactive INACTIVE     set password inactive after expiration
                              to INACTIVE
  -l, --list                   show account aging information
  -m, --mindays MIN_DAYS      set minimum number of days before password
                              change to MIN_DAYS
  -M, --maxdays MAX_DAYS     set maximum number of days before password
                              change to MAX_DAYS
  -R, --root CHROOT_DIR       directory to chroot into
  -W, --warndays WARN_DAYS    set expiration warning days to WARN_DAYS

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ubuntu@group82:~/C2$ sudo chage -M 78 hduser
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Password expires              : Apr 27, 2023
Password inactive             : never
Account expires               : Apr 30, 2023
Minimum number of days between password change : 0
Maximum number of days between password change : 78
Number of days of warning before password expires : 7
ubuntu@group82:~/C2$
```

```
ssh:x:119:
netdev:x:120:
lpadmin:x:121:ubuntu
lightdm:x:122:
noppasswdlogin:x:123:
avahi:x:124:
scanner:x:125:saned
saned:x:126:
whoopsie:x:127:
colord:x:128:
pulse:x:129:
pulse-access:x:130:
lxd:x:131:ubuntu
ubuntu:x:1000:
sambashare:x:132:ubuntu
systemd-coredump:x:999:
universe:x:1001:
ftp:x:133:
wireshark:x:134:
rdma:x:135:
geoclue:x:136:
mysql:x:137:
vboxusers:x:138:
usrp:x:139:
ubridge:x:140:ubuntu
libvirt:x:141:ubuntu
libvirt-qemu:x:64055:libvirt-qemu
libvirt-dnsmasq:x:142:
hduser:x:1002:
myadmin:x:1003:
ubuntu@groupB2:~/C2$ sudo usermod -a -G myadmin hduser
ubuntu@groupB2:~/C2$ group hduser

Command 'group' not found, did you mean:

  command 'groups' from deb coreutils (8.30-3ubuntu2)
  command 'grop' from deb grop (2:0.10-1.1build1)

Try: sudo apt install <deb name>

ubuntu@groupB2:~/C2$ groups hduser
hduser : hduser myadmin
ubuntu@groupB2:~/C2$ sudo usermod -aG sudo hduser
ubuntu@groupB2:~/C2$ grep '^sudo' /etc/group
sudo:x:27:ubuntu,hduser
ubuntu@groupB2:~/C2$
```

```
File Edit View Terminal Tabs Help
drwxr-xr-x 2 hduser root 4096 Feb 6 19:55 group_B2
drwxr-xr-x 2 hduser root 4096 Feb 8 20:20 group_c2
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Public
drwxrwxr-x 3 ubuntu ubuntu 4096 Jul 22 2022 R
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Videos
-rw-rw-r-- 1 ubuntu ubuntu 178 Jul 22 2022 weka.log
ubuntu@groupB2:~/C2$ umask
0002
ubuntu@groupB2:~/C2$ umask -s
bash: umask: -s: invalid option
umask: usage: umask [-p] [-S] [mode]
ubuntu@groupB2:~/C2$ umask -S
U=rwx,G=rwx,O=rwx
ubuntu@groupB2:~/C2$ touch testfile
ubuntu@groupB2:~/C2$ ls -l testfile
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb 8 20:22 testfile
ubuntu@groupB2:~/C2$ umask 022
ubuntu@groupB2:~/C2$ umask
0022
ubuntu@groupB2:~/C2$ touch testfile2
ubuntu@groupB2:~/C2$ ls -l testfile*
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb 8 20:22 testfile
-rw-r--r-- 1 ubuntu ubuntu 0 Feb 8 20:23 testfile2
ubuntu@groupB2:~/C2$ getfacl testfile
# file: testfile
# owner: ubuntu
# group: ubuntu
user::rw-
group::rw-
other::r--
ubuntu@groupB2:~/C2$ setfacl -m "u:ubuntu:rwx" testfile
ubuntu@groupB2:~/C2$ getfacl testfile
# file: testfile
# owner: ubuntu
# group: ubuntu
user::rw-
user:ubuntu:rwx
group::rw-
mask::rwx
other::r--
ubuntu@groupB2:~/C2$
```



```
File Edit View Terminal Tabs Help
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 21 2022 Videos
-rw-rw-r-- 1 ubuntu ubuntu 178 Jul 22 2022 weka.log
ubuntu@groupB2:~/C2$ umask
0002
ubuntu@groupB2:~/C2$ umask -s
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umask: usage: umask [-p] [-S] [mode]
ubuntu@groupB2:~/C2$ umask -S
u=rwx,g=rwx,o=rwx
ubuntu@groupB2:~/C2$ touch testfile
ubuntu@groupB2:~/C2$ ls -l testfile
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb  8 20:22 testfile
ubuntu@groupB2:~/C2$ umask 022
ubuntu@groupB2:~/C2$ umask
0022
ubuntu@groupB2:~/C2$ touch testfile2
ubuntu@groupB2:~/C2$ ls -l testfile*
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb  8 20:22 testfile
-rw-r--r-- 1 ubuntu ubuntu 0 Feb  8 20:23 testfile2
ubuntu@groupB2:~/C2$ getfacl testfile
# file: testfile
# owner: ubuntu
# group: ubuntu
user::rw-
group::rw-
other::r--
ubuntu@groupB2:~/C2$ setfacl -m "u:ubuntu:rwx" testfile
ubuntu@groupB2:~/C2$ getfacl testfile
# file: testfile
# owner: ubuntu
# group: ubuntu
user::rw-
user:ubuntu:rwx
group::rw-
mask::rwx
other::r--
ubuntu@groupB2:~/C2$ sudo deluser --remove-home hduser
Looking for files to backup/remove ...
Removing files ...
Removing user 'hduser' ...
Warning: group 'hduser' has no more members.
Done.
ubuntu@groupB2:~/C2$
```

```
ubuntu@goupB2:~/C2$ umask
0002
ubuntu@goupB2:~/C2$ umask -s
bash: umask: -s: invalid option
umask: usage: umask [-p] [-S] [mode]
ubuntu@goupB2:~/C2$ umask -S
u-rwx,g-rwx,o-rx
ubuntu@goupB2:~/C2$ touch testfile
ubuntu@goupB2:~/C2$ ls -l testfile
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb  8 20:22 testfile
ubuntu@goupB2:~/C2$ umask 022
ubuntu@goupB2:~/C2$ umask
0022
ubuntu@goupB2:~/C2$ touch testfile2
ubuntu@goupB2:~/C2$ ls -l testfile*
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb  8 20:22 testfile
-rw-r--r-- 1 ubuntu ubuntu 0 Feb  8 20:23 testfile2
ubuntu@goupB2:~/C2$ getfacl testfile
# file: testfile
# owner: ubuntu
# group: ubuntu
user::rw-
group::rw-
other::r--
ubuntu@goupB2:~/C2$ setfacl -m "u:ubuntu:rwx" testfile
ubuntu@goupB2:~/C2$ getfacl testfile
# file: testfile
# owner: ubuntu
# group: ubuntu
user::rw-
user:ubuntu:rwx
group::rw-
mask::rwx
other::r--
ubuntu@goupB2:~/C2$ sudo deluser --remove-home hduser
Looking for files to backup/remove ...
Removing files ...
Removing user 'hduser' ...
Warning: group 'hduser' has no more members.
Done.
ubuntu@goupB2:~/C2$ sudo groupdel nyadmin
ubuntu@goupB2:~/C2$ sudo groupdel nyadmin
groupdel: group 'nyadmin' does not exist
ubuntu@goupB2:~/C2$
```