

ubuntu18 — vagrant@ubuntu-bionic: ~ — ssh ◀ vagrant ssh — 80x24

```
vagrant@ubuntu-bionic:~$ sudo useradd -m -s /bin/bash class  
vagrant@ubuntu-bionic:~$
```

ubuntu18 — class@ubuntu-bionic: ~ — ssh ◀ vagrant ssh — 80x24

```
class@ubuntu-bionic:~$ mkdir os-concepts  
class@ubuntu-bionic:~$ mkdir ubuntu-is-the-best  
class@ubuntu-bionic:~$
```

ubuntu18 — class@ubuntu-bionic: ~/os-concepts — ssh ◀ vagrant ssh — 80...

```
class@ubuntu-bionic:~$ mkdir os-concepts
class@ubuntu-bionic:~$ mkdir ubuntu-is-the-best
class@ubuntu-bionic:~$ cd os-concepts/
class@ubuntu-bionic:~/os-concepts$ touch file1.txt
class@ubuntu-bionic:~/os-concepts$ touch file2.txt
class@ubuntu-bionic:~/os-concepts$
```

ubuntu18 — class@ubuntu-bionic: ~/os-concepts — ssh ◀ vagrant ssh — 80...

```
class@ubuntu-bionic:~$ mkdir os-concepts
class@ubuntu-bionic:~$ mkdir ubuntu-is-the-best
class@ubuntu-bionic:~$ cd os-concepts/
class@ubuntu-bionic:~/os-concepts$ touch file1.txt
class@ubuntu-bionic:~/os-concepts$ touch file2.txt
class@ubuntu-bionic:~/os-concepts$ ls -lla
total 8
drwxrwxr-x 2 class class 4096 Oct  7 17:51 .
drwxr-xr-x 4 class class 4096 Oct  7 17:48 ..
-rw-rw-r-- 1 class class   0 Oct  7 17:50 file1.txt
-rw-rw-r-- 1 class class   0 Oct  7 17:51 file2.txt
class@ubuntu-bionic:~/os-concepts$
```

ubuntu18 — class@ubuntu-bionic: ~/ubuntu-is-the-best — ssh ◀ vagrant ss...

```
[class@ubuntu-bionic:~]$ mkdir os-concepts
[class@ubuntu-bionic:~]$ mkdir ubuntu-is-the-best
[class@ubuntu-bionic:~]$ cd os-concepts/
[class@ubuntu-bionic:~/os-concepts$ touch file1.txt
[class@ubuntu-bionic:~/os-concepts$ touch file2.txt
[class@ubuntu-bionic:~/os-concepts$ ls -lla
total 8
drwxrwxr-x 2 class class 4096 Oct  7 17:51 .
drwxr-xr-x 4 class class 4096 Oct  7 17:48 ..
-rw-rw-r-- 1 class class   0 Oct  7 17:50 file1.txt
-rw-rw-r-- 1 class class   0 Oct  7 17:51 file2.txt
[class@ubuntu-bionic:~/os-concepts$ cd ..
[class@ubuntu-bionic:~]$ cd ubuntu-is-the-best/
[class@ubuntu-bionic:~/ubuntu-is-the-best$ touch file3.txt
[class@ubuntu-bionic:~/ubuntu-is-the-best$ touch file4.txt
[class@ubuntu-bionic:~/ubuntu-is-the-best$ ls -lla
total 8
drwxrwxr-x 2 class class 4096 Oct  7 17:53 .
drwxr-xr-x 4 class class 4096 Oct  7 17:48 ..
-rw-rw-r-- 1 class class   0 Oct  7 17:53 file3.txt
-rw-rw-r-- 1 class class   0 Oct  7 17:53 file4.txt
class@ubuntu-bionic:~/ubuntu-is-the-best$
```

ubuntu18 — class@ubuntu-bionic: ~ — ssh ◀ vagrant ssh — 80x24

```
groupadd: cannot lock /etc/group; try again later.
[class@ubuntu-bionic:~$ ls
os-concepts  ubuntu-is-the-best
[class@ubuntu-bionic:~$ pwd
/home/class
[class@ubuntu-bionic:~$ sudo su -
[sudo] password for class:
class is not in the sudoers file. This incident will be reported.
[class@ubuntu-bionic:~$ exit
logout
[vagrant@ubuntu-bionic:~$ sudo su -
root@ubuntu-bionic:~# usermod -aG sudo class
root@ubuntu-bionic:~# su - class
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

[class@ubuntu-bionic:~$ pwd
/home/class
[class@ubuntu-bionic:~$ groupadd demo
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
[class@ubuntu-bionic:~$ sudo groupadd demo
[sudo] password for class:
class@ubuntu-bionic:~$
```

```
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groupadd: cannot lock /etc/group; try again later.
[class@ubuntu-bionic:~$ ls
os-concepts  ubuntu-is-the-best
[class@ubuntu-bionic:~$ pwd
/home/class
[class@ubuntu-bionic:~$ sudo su -
[sudo] password for class:
class is not in the sudoers file.  This incident will be reported.
[class@ubuntu-bionic:~$ exit
logout
[vagrant@ubuntu-bionic:~$ sudo su -
root@ubuntu-bionic:~# usermod -aG sudo class
root@ubuntu-bionic:~# su - class
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

[class@ubuntu-bionic:~$ pwd
/home/class
[class@ubuntu-bionic:~$ groupadd demo
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
[class@ubuntu-bionic:~$ sudo groupadd demo
[sudo] password for class:
[class@ubuntu-bionic:~$ █

ubuntu18 — class@ubuntu-bionic: ~/os-concepts — ssh ◀ vagrant ssh — 80...

chgrp staff /u      Change the group of /u to "staff".
chgrp -hR staff /u  Change the group of /u and subfiles to "staff".

GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
Report chgrp translation bugs to <http://translationproject.org/team/>
Full documentation at: <http://www.gnu.org/software/coreutils/chgrp>
or available locally via: info '(coreutils) chgrp invocation'
[class@ubuntu-bionic:~$ sudo chgrp demo file1.txt
[sudo] password for class:
chgrp: cannot access 'file1.txt': No such file or directory
[class@ubuntu-bionic:~$ cd os-concepts/
[class@ubuntu-bionic:~/os-concepts$ chgrp demo file1.txt
chgrp: changing group of 'file1.txt': Operation not permitted
[class@ubuntu-bionic:~/os-concepts$ sudo chgrp demo file1.txt
[class@ubuntu-bionic:~/os-concepts$ ls
file1.txt  file2.txt
[class@ubuntu-bionic:~/os-concepts$ sudo chgrp demo file2.txt
[class@ubuntu-bionic:~/os-concepts$ ls -lla
total 8
drwxrwxr-x 2 class class 4096 Oct  7 17:51 .
drwxr-xr-x 4 class class 4096 Oct  7 18:21 ..
-rw-rw-r-- 1 class demo   0 Oct  7 17:50 file1.txt
-rw-rw-r-- 1 class demo   0 Oct  7 17:51 file2.txt
[class@ubuntu-bionic:~/os-concepts$ █
```

```
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-p, --password PASSWORD      use encrypted password for the new password
-R, --root CHROOT_DIR        directory to chroot into
-s, --shell SHELL            new login shell for the user account
-u, --uid UID                new UID for the user account
-U, --unlock                  unlock the user account
-v, --add-subuids FIRST-LAST add range of subordinate uids
-V, --del-subuids FIRST-LAST remove range of subordinate uids
-w, --add-subgids FIRST-LAST add range of subordinate gids
-W, --del-subgids FIRST-LAST remove range of subordinate gids
-Z, --selinux-user SEUSER    new SELinux user mapping for the user account

class@ubuntu-bionic:~$ sudo usermod -a -G demo class
class@ubuntu-bionic:~$ group class

Command 'group' not found, did you mean:

  command 'groups' from deb coreutils
  command 'grop' from deb grop

Try: sudo apt install <deb name>

class@ubuntu-bionic:~$ groups class
class : class sudo demo
class@ubuntu-bionic:~$
```

```
ubuntu18 — class@ubuntu-bionic: ~ — ssh ◀ vagrant ssh — 80x24

/home/class/os-concepts/crash.in
/home/class/crash.in
find: '/home/ubuntu/.ssh': Permission denied
find: '/home/vagrant/.ssh': Permission denied
find: '/home/vagrant/.local/share': Permission denied
find: '/home/vagrant/.cache': Permission denied
find: '/home/vagrant/.gnupg': Permission denied
class@ubuntu-bionic:~$ find . -name crash.in
./os-concepts/crash.in
./crash.in
class@ubuntu-bionic:~$ pwd
/home/class
class@ubuntu-bionic:~$ find /home -name crash
find: '/home/new/.local/share': Permission denied
find: '/home/ubuntu/.ssh': Permission denied
find: '/home/vagrant/.ssh': Permission denied
find: '/home/vagrant/.local/share': Permission denied
find: '/home/vagrant/.cache': Permission denied
find: '/home/vagrant/.gnupg': Permission denied
class@ubuntu-bionic:~$ find /home/class -name crash
class@ubuntu-bionic:~$ find /home/class -name crash.*
/home/class/os-concepts/crash.in
/home/class/crash.in
class@ubuntu-bionic:~$
```

```
ubuntu18 — class@ubuntu-bionic: ~ — ssh - vagrant ssh — 80x24

find: '/home/new/.local/share': Permission denied
find: '/home/ubuntu/.ssh': Permission denied
find: '/home/vagrant/.ssh': Permission denied
find: '/home/vagrant/.local/share': Permission denied
find: '/home/vagrant/.cache': Permission denied
find: '/home/vagrant/.gnupg': Permission denied
class@ubuntu-bionic:~$ find /home/class -name crash
/home/class/os-concepts/crash.in
/home/class/crash.in
class@ubuntu-bionic:~$ find /home/class -name crash.in | xargs sed 's/crash/broken/g'
Welcome to the broken course. You will learn all the new and best topics here. Congratulation for joining this broken course. broken your goals.
Welcome to the broken course. You will learn all the new and best topics here. Congratulation for joining this broken course. broken your goals.
class@ubuntu-bionic:~$ find /home/class -name crash.in | xargs sed -i 's/crash/broken/g'
class@ubuntu-bionic:~$ ls
crash.in  os-concepts  ubuntu-is-the-best
class@ubuntu-bionic:~$ cat crash.in
Welcome to the broken course. You will learn all the new and best topics here. Congratulation for joining this broken course. broken your goals.
class@ubuntu-bionic:~$
```