

Old Dominion University  
CYSE 270 Linux System for Cybersecurity

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Assignment #4 Group and User Accounts

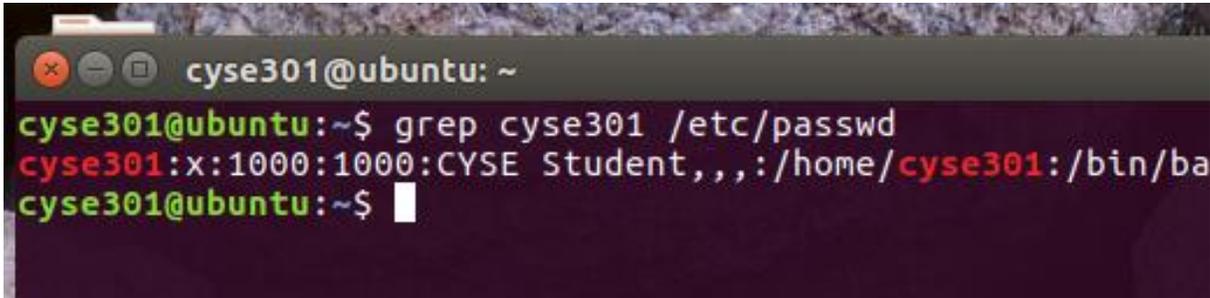
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## TASK A- User Account Management

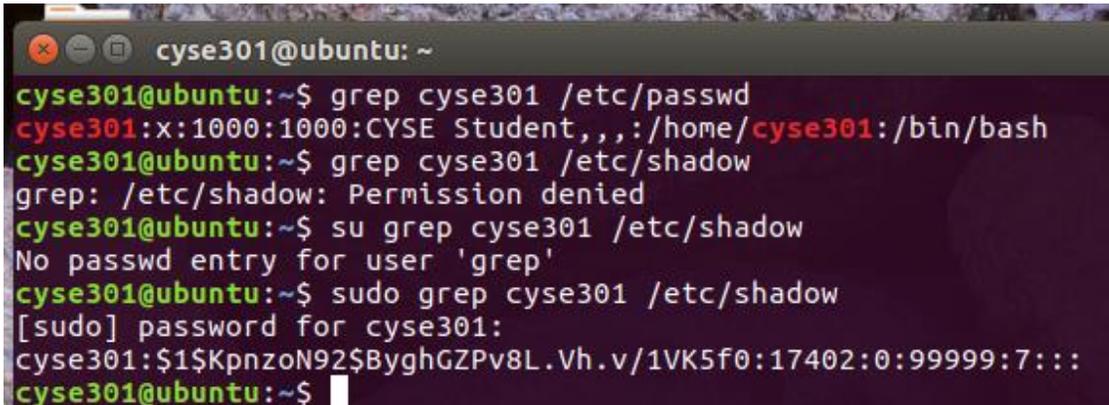
1.



```
cyse301@ubuntu: ~
cyse301@ubuntu:~$ grep cyse301 /etc/passwd
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/ba
cyse301@ubuntu:~$
```

I opened the terminal in Ubuntu VM and used command “grep cyse301 /etc/passwd “ to show the password file that contains the users name, password with and X placeholder, the UID , the users primary group, the home directory, and the users bin/bash login shell.

2.



```
cyse301@ubuntu: ~
cyse301@ubuntu:~$ grep cyse301 /etc/passwd
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/bash
cyse301@ubuntu:~$ grep cyse301 /etc/shadow
grep: /etc/shadow: Permission denied
cyse301@ubuntu:~$ su grep cyse301 /etc/shadow
No passwd entry for user 'grep'
cyse301@ubuntu:~$ sudo grep cyse301 /etc/shadow
[sudo] password for cyse301:
cyse301:$1$KpnzoN92$ByghGZPv8L.Vh.v/1VK5f0:17402:0:99999:7:::
cyse301@ubuntu:~$
```

To display user password information including encrypted password and password age I used command “ Sudo grep cyse301 /etc/shadow “ Sudo gives the command the ability to run with root authority, while not signing into a root or authorized user account. Grep searched through text of cuse301 for the /etc/shadow file which has the password encrypted, days since last changed, min days eft before allowed to change, max number of days pass is valid, warn, and expire days.

3.

```
cyse301@ubuntu: ~
hplip:x:122:7:HPLIP system user,,,:/var/run/hplip:/bin/false
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/bash
ftp:x:123:133:ftp daemon,,,:/srv/ftp:/bin/false
cyse301@ubuntu:~$ sudo useradd 01206431 -d /home/01206431
[sudo] password for cyse301:
cyse301@ubuntu:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108:./home/syslog:/bin/false
_apt:x:105:65534:./nonexistent:/bin/false
messagebus:x:106:109:./var/run/dbus:/bin/false
usermetrics:x:107:111:User Metrics:/var/lib/usermetrics:/bin/false
uidd:x:108:113:./run/uidd:/bin/false
rtkit:x:109:114:RealtimeKit,,,:/proc:/bin/false
avahi-autoipd:x:110:115:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/bin/false
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/bin/false
lightdm:x:112:118:Light Display Manager:/var/lib/lightdm:/bin/false
whoopsie:x:113:122:./nonexistent:/bin/false
geoclue:x:114:123:./var/lib/geoclue:/bin/false
kernoops:x:115:65534:Kernel Oops Tracking Daemon,,,:/bin/false
speech-dispatcher:x:116:29:Speech Dispatcher,,,:/var/run/speech-dispatcher:/bin/false
nm-openvpn:x:117:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/bin/false
avahi:x:118:125:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/bin/false
pulse:x:119:126:PulseAudio daemon,,,:/var/run/pulse:/bin/false
colord:x:120:129:colord colour management daemon,,,:/var/lib/colord:/bin/false
saned:x:121:130:./var/lib/saned:/bin/false
hplip:x:122:7:HPLIP system user,,,:/var/run/hplip:/bin/false
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/bash
ftp:x:123:133:ftp daemon,,,:/srv/ftp:/bin/false
01206431:x:1001:1001:./home/01206431:
cyse301@ubuntu:~$
```

To create a new user with the name of my ODU ID, 01206431 is used command, “ sudo useradd 01206431 -d /home/01206431 “ the modifier -d tells it to add the home folder directory of /home/01206431.

```

cyse301@ubuntu: /
cyse301
cyse301@ubuntu:~/home$ cd ..
cyse301@ubuntu:/$ ls
bin  cdrom  etc  initrd.img  lib64  media  opt  root  sbin  srv  sys  usr  vmlinuz
boot dev  hone  lib        lost+found  mnt  proc  run  snap  swapfile  sys  var
cyse301@ubuntu:/$ ls -al
total 970080
drwxr-xr-x 24 root root      4096 Aug 24 2017 .
drwxr-xr-x 24 root root      4096 Aug 24 2017 ..
drwxr-xr-x  2 root root      4096 Aug 24 2017 bin
drwxr-xr-x  3 root root      4096 Sep 18 2017 boot
drwxrwxr-x  2 root root      4096 Aug 24 2017 cdrom
drwxr-xr-x 18 root root      3900 Feb  6 18:26 dev
drwxr-xr-x 134 root root    12288 Feb  6 19:14 etc
drwxr-xr-x  3 root root      4096 Aug 24 2017 home
lrwxrwxrwx  1 root root         33 Aug 24 2017 initrd.img -> boot/initrd.img-4.10.0-19-generic
drwxr-xr-x 22 root root      4096 Aug 24 2017 lib
drwxr-xr-x  2 root root      4096 Apr 11 2017 lib64
drwx----- 2 root root    16384 Aug 24 2017 lost+found
drwxr-xr-x  4 root root      4096 Sep 15 2017 media
drwxr-xr-x  3 root root      4096 Sep 15 2017 mnt
drwxr-xr-x  2 root root      4096 Aug 24 2017 opt
dr-xr-xr-x 242 root root         0 Feb  6 18:26 proc
drwx----- 3 root root      4096 Apr 11 2017 root
drwxr-xr-x 27 root root         820 Feb  6 18:31 run
drwxr-xr-x  2 root root    12288 Aug 24 2017 sbin
drwxr-xr-x  2 root root      4096 Apr  6 2017 snap
drwxr-xr-x  3 root root      4096 Aug 24 2017 srv
-rw-----  1 root root 993244160 Aug 24 2017 swapfile
dr-xr-xr-x 13 root root         0 Feb  6 18:26 sys
drwxrwxrwt 14 root root      4096 Feb  6 19:17 sys
drwxr-xr-x 11 root root      4096 Apr 11 2017 usr
drwxr-xr-x 14 root root      4096 Apr 11 2017 var
lrwxrwxrwx  1 root root         30 Aug 24 2017 vmlinuz -> boot/vmlinuz-4.10.0-19-generic
cyse301@ubuntu:/$ sudo passwd 01206431
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
cyse301@ubuntu:/$

```

To set a password for the new user I used command “ sudo passwd 01206431 “ Sudo gives root power to create a password using passwd for user 01206431. Then I enter the new password twice and it successfully updated the password.

```

cyse301@ubuntu: /
total 970080
drwxr-xr-x  24 root root    4096 Aug 24  2017 .
drwxr-xr-x  24 root root    4096 Aug 24  2017 ..
drwxr-xr-x   2 root root    4096 Aug 24  2017 bin
drwxr-xr-x   3 root root    4096 Sep 18  2017 boot
drwxrwxr-x  2 root root    4096 Aug 24  2017 cdrom
drwxr-xr-x  18 root root    3900 Feb  6 18:26 dev
drwxr-xr-x 134 root root   12288 Feb  6 19:14 etc
drwxr-xr-x   3 root root    4096 Aug 24  2017 home
lrwxrwxrwx   1 root root     33 Aug 24  2017 initrd.img -> boot/initrd.img-4.10.0-19-generic
drwxr-xr-x  22 root root    4096 Aug 24  2017 lib
drwxr-xr-x   2 root root    4096 Apr 11  2017 lib64
drwx-----  2 root root   16384 Aug 24  2017 lost+found
drwxr-xr-x   4 root root    4096 Sep 15  2017 media
drwxr-xr-x   3 root root    4096 Sep 15  2017 mnt
drwxr-xr-x   2 root root    4096 Aug 24  2017 opt
dr-xr-xr-x 242 root root     0 Feb  6 18:26 proc
drwx-----  3 root root    4096 Apr 11  2017 root
drwxr-xr-x  27 root root     820 Feb  6 18:31 run
drwxr-xr-x   2 root root   12288 Aug 24  2017 sbin
drwxr-xr-x   2 root root    4096 Apr  6  2017 snap
drwxr-xr-x   3 root root    4096 Aug 24  2017 srv
-rw-----  1 root root 993244160 Aug 24  2017 swapfile
dr-xr-xr-x  13 root root     0 Feb  6 18:26 sys
drwxrwxrwt  14 root root    4096 Feb  6 19:17 tmp
drwxr-xr-x  11 root root    4096 Apr 11  2017 usr
drwxr-xr-x  14 root root    4096 Apr 11  2017 var
lrwxrwxrwx   1 root root     30 Aug 24  2017 vmlinuz -> boot/vmlinuz-4.10.0-19-generic
cyse301@ubuntu:/$ sudo passwd 01206431
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
cyse301@ubuntu:/$ usermod -s /bin/bash 01206431
usermod: Permission denied.
usermod: cannot lock /etc/passwd; try again later.
cyse301@ubuntu:/$ sudo usermod -s /bin/bash 01206431
cyse301@ubuntu:/$ grep 01206431 /etc/passwd
01206431:x:1001:1001:./home/01206431:/bin/bash
cyse301@ubuntu:/$

```

I set the bash shell as the default login shell for the new user by using command, “ sudo usermod -s /bin/bash 01206431 “ This uses sudo for authority, usermod to change user characteristics, -s to specify shells are option being changed, and /bin/bash as the change to make.

```

cyse301@ubuntu: /
lrwxrwxrwx 1 root root 33 Aug 24 2017 initrd.img -> boot/initrd.img-4.10.0-19-generic
drwxr-xr-x 22 root root 4096 Aug 24 2017 lib
drwxr-xr-x 2 root root 4096 Apr 11 2017 lib64
drwx----- 2 root root 16384 Aug 24 2017 lost+found
drwxr-xr-x 4 root root 4096 Sep 15 2017 media
drwxr-xr-x 3 root root 4096 Sep 15 2017 mnt
drwxr-xr-x 2 root root 4096 Aug 24 2017 opt
dr-xr-xr-x 242 root root 0 Feb 6 18:26 proc
drwx----- 3 root root 4096 Apr 11 2017 root
drwxr-xr-x 27 root root 820 Feb 6 18:31 run
drwxr-xr-x 2 root root 12288 Aug 24 2017 sbin
drwxr-xr-x 2 root root 4096 Apr 6 2017 snap
drwxr-xr-x 3 root root 4096 Aug 24 2017 srv
-rw----- 1 root root 993244160 Aug 24 2017 swapfile
dr-xr-xr-x 13 root root 0 Feb 6 18:26 sys
drwxrwxrwt 14 root root 4096 Feb 6 19:17 tmp
drwxr-xr-x 11 root root 4096 Apr 11 2017 usr
drwxr-xr-x 14 root root 4096 Apr 11 2017 var
lrwxrwxrwx 1 root root 30 Aug 24 2017 vmlinuz -> boot/vmlinuz-4.10.0-19-generic
cyse301@ubuntu:/$ sudo passwd 01206431
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
cyse301@ubuntu:/$ usermod -s /bin/bash 01206431
usermod: Permission denied.
usermod: cannot lock /etc/passwd; try again later.
cyse301@ubuntu:/$ sudo usermod -s /bin/bash 01206431
cyse301@ubuntu:/$ grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
cyse301@ubuntu:/$ sudo /etc/shadow
sudo: /etc/shadow: command not found
cyse301@ubuntu:/$ sudo 01206431 /etc/shadow
sudo: 01206431: command not found
cyse301@ubuntu:/$ grep 01206431 /etc/shadow
grep: /etc/shadow: Permission denied
cyse301@ubuntu:/$ sudo grep 01206431 /etc/shadow
01206431:$6$duB4eVxi$YLWZb.xodPQQJaqJMAAQraPB6j/Y8IKniqntA1BiFw0lxFLJHK7Bxkwn0zHQSe6c0IHFvjD2S4GSAR
Oq5X8vB0:19030:0:99999:7:::
cyse301@ubuntu:/$

```

The command to display user password information like encrypted password and user aging with grep is , “ sudo grep 01206431 /etc/shadow “ This uses sudo authority, grep to search users 01206431 for the /etc/shadow file and then display its contents. The contents show again encrypted password and age information of the user and password.

```

cyse301@ubuntu: /
drwx----- 3 root root      4096 Apr 11 2017 root
drwxr-xr-x 27 root root      820 Feb  6 18:31 run
drwxr-xr-x  2 root root     12288 Aug 24 2017 sbin
drwxr-xr-x  2 root root      4096 Apr  6 2017 snap
drwxr-xr-x  3 root root      4096 Aug 24 2017 srv
-rw-----  1 root root    993244160 Aug 24 2017 swapfile
dr-xr-xr-x 13 root root        0 Feb  6 18:26 sys
drwxrwxrwt 14 root root      4096 Feb  6 19:17 tmp
drwxr-xr-x 11 root root      4096 Apr 11 2017 usr
drwxr-xr-x 14 root root      4096 Apr 11 2017 var
lrwxrwxrwx  1 root root        30 Aug 24 2017 vmlinuz -> boot/vmlinuz-4.10.0-19-generic
cyse301@ubuntu:/$ sudo passwd 01206431
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
cyse301@ubuntu:/$ usermod -s /bin/bash 01206431
usermod: Permission denied.
usermod: cannot lock /etc/passwd; try again later.
cyse301@ubuntu:/$ sudo usermod -s /bin/bash 01206431
cyse301@ubuntu:/$ grep 01206431 /etc/passwd
01206431:x:1001:1001::/home/01206431:/bin/bash
cyse301@ubuntu:/$ sudo /etc/shadow
sudo: /etc/shadow: command not found
cyse301@ubuntu:/$ sudo 01206431 /etc/shadow
sudo: 01206431: command not found
cyse301@ubuntu:/$ grep 01206431 /etc/shadow
grep: /etc/shadow: Permission denied
cyse301@ubuntu:/$ sudo grep 01206431 /etc/shadow
01206431:$6$dub4eVxiSYLWZb.xodPQQJaqJMAAQrPB6j/Y8IKntqntA1BiFw0lxFLJHK7Bxkwn0zHQ5e6cOIHfvjD254GSAR
Oq5XBvB0:19030:0:99999:7:::
cyse301@ubuntu:/$ id
uid=1000(cyse301) gid=1000(cyse301) groups=1000(cyse301),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),121(lpadmin),131(sambashare),132(wireshark)
cyse301@ubuntu:/$ id 01206431
uid=1001(01206431) gid=1001(01206431) groups=1001(01206431)
cyse301@ubuntu:/$ sudo usermod -G sudo -a 01206431
cyse301@ubuntu:/$ id 01206431
uid=1001(01206431) gid=1001(01206431) groups=1001(01206431),27(sudo)
cyse301@ubuntu:/$

```

To add a new user of the sudo group and not override the existing memberships of the group, I used command, “sudo usermod -G sudo -a 01206431” This uses sudo for authority, usermod to change a user’s characteristics, -G sudo -a to append the new GID to the users secondary groups, and 01206431 to specify the groups. I also used command,” id 01206431” before and after to see the change of group memberships for the user 01206431.

```

cyse301@ubuntu: /
drwxrwxrwt  14 root root      4096 Feb  6 19:17 tmp
drwxr-xr-x  11 root root      4096 Apr 11 2017 usr
drwxr-xr-x  14 root root      4096 Apr 11 2017 var
lrwxrwxrwx   1 root root        30 Aug 24 2017 vmlinuz -> boot/vmlinuz-4.10.0-19-generic
cyse301@ubuntu:/$ sudo passwd 01206431
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
cyse301@ubuntu:/$ usermod -s /bin/bash 01206431
usermod: Permission denied.
usermod: cannot lock /etc/passwd; try again later.
cyse301@ubuntu:/$ sudo usermod -s /bin/bash 01206431
cyse301@ubuntu:/$ grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
cyse301@ubuntu:/$ sudo /etc/shadow
sudo: /etc/shadow: command not found
cyse301@ubuntu:/$ sudo 01206431 /etc/shadow
sudo: 01206431: command not found
cyse301@ubuntu:/$ grep 01206431 /etc/shadow
grep: /etc/shadow: Permission denied
cyse301@ubuntu:/$ sudo grep 01206431 /etc/shadow
01206431:$6$5dub4eVxi$YLWZb.xodPQQJaqJMAAQraPB6j/Y8IKniqntAlBlFw0lxFLJHK7BxkWn0zHQSe6c0IMFvjD2S4GSAR
Oq5X8vB0:19030:0:99999:7:::
cyse301@ubuntu:/$ id
uid=1000(cyse301) gid=1000(cyse301) groups=1000(cyse301),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),121(lpadmin),131(sambashare),132(wireshark)
cyse301@ubuntu:/$ id 01206431
uid=1001(01206431) gid=1001(01206431) groups=1001(01206431)
cyse301@ubuntu:/$ sudo usermod -G sudo -a 01206431
cyse301@ubuntu:/$ id 01206431
uid=1001(01206431) gid=1001(01206431) groups=1001(01206431),27(sudo)
cyse301@ubuntu:/$ su 01206431
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

01206431@ubuntu:/$ pwd
/
01206431@ubuntu:/$

```

To switch to the newly created account I used command, “ su 01206431 “ This allowed me to use the passwords created for user 01206431 to log on. Then I used pwd to confirm my present working directory was in the file system.

## TASK B – Group Account Management

1

```
cyse301@ubuntu: /
Command 'cdv' from package 'codeville' (universe)
Command 'cdw' from package 'cdw' (universe)
Command 'cd5' from package 'cd5' (universe)
Command 'cdi' from package 'cdo' (universe)
Command 'cdb' from package 'tinycdb' (main)
Command 'cde' from package 'cde' (universe)
cd -: command not found
01206431@ubuntu:/$ cd
bash: cd: /home/01206431: No such file or directory
01206431@ubuntu:/$ exit
exit
cyse301@ubuntu:/$ su -01206431
su: invalid option -- '0'
Usage: su [options] [LOGIN]

Options:
  -c, --command COMMAND      pass COMMAND to the invoked shell
  -h, --help                 display this help message and exit
  -, -l, --login             make the shell a login shell
  -m, -p,                   do not reset environment variables, and
  --preserve-environment     keep the same shell
  -s, --shell SHELL         use SHELL instead of the default in passwd

cyse301@ubuntu:/$ su 01206431
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

01206431@ubuntu:/$ etc/passwd
bash: etc/passwd: Permission denied
01206431@ubuntu:/$ sudo etc/passwd
[sudo] password for 01206431:
sudo: etc/passwd: command not found
01206431@ubuntu:/$ sudo /etc/passwd
sudo: /etc/passwd: command not found
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
01206431@ubuntu:/$
```

To return to the home directory and determine the shell I was using I used command, “ exit “ to leave the new users account, and then to determine shell I sued command “ cd ~ “ to see my home directory.

```

cyse301@ubuntu: /
Command 'cde' from package 'cde' (universe)
cd-: command not found
01206431@ubuntu:/$ cd
bash: cd: /home/01206431: No such file or directory
01206431@ubuntu:/$ exit
exit
cyse301@ubuntu:/$ su -01206431
su: invalid option -- '0'
Usage: su [options] [LOGIN]

Options:
  -c, --command COMMAND      pass COMMAND to the invoked shell
  -h, --help                 display this help message and exit
  -, -l, --login             make the shell a login shell
  -m, -p,                   do not reset environment variables, and
  --preserve-environment     keep the same shell
  -s, --shell SHELL         use SHELL instead of the default in passwd

cyse301@ubuntu:/$ su 01206431
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

01206431@ubuntu:/$ etc/passwd
bash: etc/passwd: Permission denied
01206431@ubuntu:/$ sudo etc/passwd
[sudo] password for 01206431:
sudo: etc/passwd: command not found
01206431@ubuntu:/$ sudo /etc/passwd
sudo: /etc/passwd: command not found
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/group
sudo:x:27:cyse301,01206431
01206431:x:1001:
01206431@ubuntu:/$ █

```

To display the current users ID and group membership I used command was “ Sudo grep 01206431 /etc/passwd  
 “ Sudo for authority and grep to search through user 01206431 for the /etc/passwd file.

```

cyse301@ubuntu: /
01206431@ubuntu:/$ exit
exit
cyse301@ubuntu:/$ su -01206431
su: invalid option -- '0'
Usage: su [options] [LOGIN]

Options:
  -c, --command COMMAND      pass COMMAND to the invoked shell
  -h, --help                 display this help message and exit
  -, -l, --login             make the shell a login shell
  -m, -p,                   do not reset environment variables, and
  --preserve-environment     keep the same shell
  -s, --shell SHELL         use SHELL instead of the default in passwd

cyse301@ubuntu:/$ su 01206431
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

01206431@ubuntu:/$ etc/passwd
bash: etc/passwd: Permission denied
01206431@ubuntu:/$ sudo etc/passwd
[sudo] password for 01206431:
sudo: etc/passwd: command not found
01206431@ubuntu:/$ sudo /etc/passwd
sudo: /etc/passwd: command not found
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/group
sudo:x:27:cyse301,01206431
01206431:x:1001:
01206431@ubuntu:/$ groups
01206431 sudo
01206431@ubuntu:/$ groups root
root : root
01206431@ubuntu:/$ █

```

To display group membership of the root account I used “ groups root “ to show which accounts root was a member of .

```

cyse301@ubuntu: /
cyse301@ubuntu:/$ su -01206431
su: invalid option -- '0'
Usage: su [options] [LOGIN]

Options:
  -c, --command COMMAND      pass COMMAND to the invoked shell
  -h, --help                 display this help message and exit
  -, -l, --login             make the shell a login shell
  -m, -p,                   do not reset environment variables, and
  --preserve-environment     keep the same shell
  -s, --shell SHELL         use SHELL instead of the default in passwd

cyse301@ubuntu:/$ su 01206431
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

01206431@ubuntu:/$ etc/passwd
bash: etc/passwd: Permission denied
01206431@ubuntu:/$ sudo etc/passwd
[sudo] password for 01206431:
sudo: etc/passwd: command not found
01206431@ubuntu:/$ sudo /etc/passwd
sudo: /etc/passwd: command not found
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001:~/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/group
sudo:x:27:cyse301,01206431
01206431:x:1001:
01206431@ubuntu:/$ groups
01206431 sudo
01206431@ubuntu:/$ groups root
root : root
01206431@ubuntu:/$ ls -l /etc/passwd
-rw-r--r-- 1 root root 2486 Feb  6 19:21 /etc/passwd
01206431@ubuntu:/$

```

To determine the user owner and group owner of the /etc/group file I used command, "ls -l /etc/passwd" "ls to list and -l to specifically list the contents of /etc/passwd file.

```

cyse301@ubuntu: /
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

01206431@ubuntu:/$ etc/passwd
bash: etc/passwd: Permission denied
01206431@ubuntu:/$ sudo etc/passwd
[sudo] password for 01206431:
sudo: etc/passwd: command not found
01206431@ubuntu:/$ sudo /etc/passwd
sudo: /etc/passwd: command not found
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001::/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/passwd
01206431:x:1001:1001::/home/01206431:/bin/bash
01206431@ubuntu:/$ sudo grep 01206431 /etc/group
sudo:x:27:cyse301,01206431
01206431:x:1001:
01206431@ubuntu:/$ groups
01206431 sudo
01206431@ubuntu:/$ groups root
root : root
01206431@ubuntu:/$ ls -l /etc/passwd
-rw-r--r-- 1 root root 2486 Feb  6 19:21 /etc/passwd
01206431@ubuntu:/$ groupadd -g 01206431 test
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
01206431@ubuntu:/$ sudo groupadd -g 01206431 test
01206431@ubuntu:/$ id
uid=1001(01206431) gid=1001(01206431) groups=1001(01206431),27(sudo)
01206431@ubuntu:/$ sudo id
uid=0(root) gid=0(root) groups=0(root)
01206431@ubuntu:/$ id 01206431
uid=1001(01206431) gid=1001(01206431) groups=1001(01206431),27(sudo)
01206431@ubuntu:/$ grep test /etc/passwd
01206431@ubuntu:/$ ls
bin  cdrom  etc  initrd.img  lib64      media  opt  root  sbin  srv      sys  usr  vmlinuz
boot  dev  home  lib          lost+found  mnt    proc  run  snap  swapfile  tmp  var
01206431@ubuntu:/$

```

To create a new group named test, I used command, “sudo groupadd -g -1206431 test“ sudo for authority, groupadd to create a new group, -g to add it to the primary group, -1206431 as the user creating the group and test as the name. Below command “cat /etc/group shows all groups and test is highlighted with GID.

```

lpadmin:x:121:cyse301
whoopsie:x:122:
geoclue:x:123:
nm-openvpn:x:124:
avahi:x:125:
pulse:x:126:
pulse-access:x:127:
scanner:x:128:saned
colord:x:129:
saned:x:130:
cyse301:x:1000:
sambashare:x:131:cyse301
wireshark:x:132:cyse301
ftp:x:133:
test:x:1206431:
01206431:x:1001:
01206431@ubuntu: /home/cyse301$

```

```
nal
cyse301@ubuntu: -
systemd-network:x:103:
systemd-resolve:x:104:
systemd-bus-proxy:x:105:
input:x:106:
crontab:x:107:
syslog:x:108:
messagebus:x:109:
netdev:x:110:
usermetrics:x:111:
mlocate:x:112:
uidd:x:113:
rtkit:x:114:
avahi-autoipd:x:115:
bluetooth:x:116:
ssl-cert:x:117:
lightdm:x:118:
nopasswdlogin:x:119:
ssh:x:120:
lpadmin:x:121:cyse301
whoopsie:x:122:
geoclue:x:123:
nm-openvpn:x:124:
avahi:x:125:
pulse:x:126:
pulse-access:x:127:
scanner:x:128:saned
colord:x:129:
saned:x:130:
cyse301:x:1000:
smbshare:x:131:cyse301
wireshark:x:132:cyse301
ftp:x:133:
test:x:1206431:
cyse301@ubuntu:~$ grep test /etc/pass
grep: /etc/pass: No such file or directory
cyse301@ubuntu:~$ grep /etc/pass test
grep: test: No such file or directory
cyse301@ubuntu:~$ grep test /etc/group
test:x:1206431:
cyse301@ubuntu:~$
```

TO display group account information I used command, “grep test /etc/group “ Grep allows us to search test group for files like /etc/group and display their contents.

```
-bit x | Windows 7 - ECE/MSIM 470/570 x | |
cyse301@ubuntu: ~
sasldb: x:45:
plugdev: x:46: cyse301
staff: x:50:
games: x:60:
users: x:100:
nogroup: x:65534:
systemd-journal: x:101:
systemd-timesync: x:102:
systemd-network: x:103:
systemd-resolve: x:104:
systemd-bus-proxy: x:105:
input: x:106:
crontab: x:107:
syslog: x:108:
messagebus: x:109:
netdev: x:110:
usermetrics: x:111:
mlocate: x:112:
uidd: x:113:
rtkit: x:114:
avahi-autoipd: x:115:
bluetooth: x:116:
ssl-cert: x:117:
lightdm: x:118:
nopasswdlogin: x:119:
ssh: x:120:
lpadmin: x:121: cyse301
whoopsie: x:122:
geoclue: x:123:
nm-openvpn: x:124:
avahi: x:125:
pulse: x:126:
pulse-access: x:127:
scanner: x:128: saned
colord: x:129:
saned: x:130:
cyse301: x:1000:
sambashare: x:131: cyse301
wireshark: x:132: cyse301
ftp: x:133:
newtest: x:1206431:
cyse301@ubuntu: ~$
```

TO change the name of the group test to new test I used command “Sudo groupmod -n newtest test” Sudo for authority, groupmod is to modify a group, -n is the modifier for the command to specify name, newtest is the new name and test is the old one.

```

cyse301@ubuntu: -
-a, --append          append the user to the supplemental GROUPS
                      mentioned by the -G option without removing
                      him/her from other groups
-h, --help            display this help message and exit
-l, --login NEW_LOGIN new value of the login name
-L, --lock            lock the user account
-m, --move-home       move contents of the home directory to the
                      new location (use only with -d)
-o, --non-unique      allow using duplicate (non-unique) UID
-p, --password PASSWD 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, --sellinux-user SEUSER new SELinux user mapping for the user account

01206431@ubuntu:/home/cyse301$ usermod -G newtest-01206431
usermod: group 'newtest-01206431' does not exist
01206431@ubuntu:/home/cyse301$ usermod -G newtest 01206431
usermod: Permission denied.
usermod: cannot lock /etc/passwd; try again later.
01206431@ubuntu:/home/cyse301$ sudo usermod -G newtest 01206431
[sudo] password for 01206431:
Sorry, try again.
[sudo] password for 01206431:
Sorry, try again.
[sudo] password for 01206431:
sudo: 3 incorrect password attempts
01206431@ubuntu:/home/cyse301$ sudo usermod -G newtest 01206431
[sudo] password for 01206431:
Sorry, try again.
[sudo] password for 01206431:
Sorry, try again.
[sudo] password for 01206431:
sudo: 3 incorrect password attempts
01206431@ubuntu:/home/cyse301$

```

To add the current account of 01206431 as a secondary member of the newtest group without overriding their current group membership I used command, “ sudo usermod -G newtest 01206431 “ SUDO for the authority, usermod to change a users settings, -G lets us override the current secondary group settings but not the main, to newtest, for user 01206431.

```

nal
cyse301@ubuntu: ~
cyse301@ubuntu:~$ sudo useradd 01206431 -d /home/01206431
[sudo] password for cyse301:
cyse301@ubuntu:~$ sudo passwd 01206431
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
cyse301@ubuntu:~$ sudo usermod -s /bin/bash 01206431
cyse301@ubuntu:~$ sudo usermod -G sudo -a 01206431
cyse301@ubuntu:~$ sudo groupadd -g 01206431 test
cyse301@ubuntu:~$ sudo groupmod -n newtest test
cyse301@ubuntu:~$ sudo usermod -G newtest 01206431
cyse301@ubuntu:~$ touch testfile
cyse301@ubuntu:~$ pwd
/home/cyse301
cyse301@ubuntu:~$ ls
Desktop      Downloads      Music          Public          testfile  VMshare
Documents    examples.desktop  Pictures       Templates      Videos
cyse301@ubuntu:~$

```

My virtual machine had a problem and I had to restart it and rework much of the assignment to get back to this stage. I used command “touch testfile “ to create a file named testfile in the home directory and “ls “ to list the files in the current directory as proof.

```

cyse301@ubuntu: ~
cyse301@ubuntu:~$ sudo useradd 01206431 -d /home/01206431
[sudo] password for cyse301:
cyse301@ubuntu:~$ sudo passwd 01206431
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
cyse301@ubuntu:~$ sudo usermod -s /bin/bash 01206431
cyse301@ubuntu:~$ sudo usermod -G sudo -a 01206431
cyse301@ubuntu:~$ sudo groupadd -g 01206431 test
cyse301@ubuntu:~$ sudo groupmod -n newtest test
cyse301@ubuntu:~$ sudo usermod -G newtest 01206431
cyse301@ubuntu:~$ touch testfile
cyse301@ubuntu:~$ pwd
/home/cyse301
cyse301@ubuntu:~$ ls
Desktop      Downloads      Music          Public          testfile  VMshare
Documents    examples.desktop  Pictures       Templates      Videos
cyse301@ubuntu:~$ ls -l testfile
-rw-r--r-- 1 cyse301 cyse301 0 Feb  7 18:05 testfile
cyse301@ubuntu:~$

```

To display the user owner and group owner of the information in the testfile I used command “ls -l testfile “ ls lists and with modifier -l to specify file testfile. Then we see the read write and owner information.

```

nal
cyse301@ubuntu: ~
nopasswdlogin:x:119:
ssh:x:120:
lpadmin:x:121:cyse301
whoopsie:x:122:
geoclue:x:123:
nm-openvpn:x:124:
avahi:x:125:
pulse:x:126:
pulse-access:x:127:
scanner:x:128:saned
colord:x:129:
saned:x:130:
cyse301:x:1000:
sambashare:x:131:cyse301
wireshark:x:132:cyse301
ftp:x:133:
01206431:x:1001:
newtest:x:1206431:01206431
cyse301@ubuntu:~$ sudo groupdel newtest
cyse301@ubuntu:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,cyse301
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:cyse301
floppy:x:25:
tape:x:26:
sudo:x:27:cyse301
audio:x:29:pulse
dip:x:30:cyse301
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:

```

```

nal
cyse301@ubuntu: ~
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:cyse301
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-timesync:x:102:
systemd-network:x:103:
systemd-resolve:x:104:
systemd-bus-proxy:x:105:
input:x:106:
crontab:x:107:
syslog:x:108:
messagebus:x:109:
netdev:x:110:
usermetrics:x:111:
nlocate:x:112:
uidd:x:113:
rtkit:x:114:
avahi-autoipd:x:115:
bluetooth:x:116:
ssl-cert:x:117:
lightdm:x:118:
nopasswdlogin:x:119:
ssh:x:120:
lpadmin:x:121:cyse301
whoopsie:x:122:
geoclue:x:123:
nm-openvpn:x:124:
avahi:x:125:
pulse:x:126:
pulse-access:x:127:
scanner:x:128:saned
colord:x:129:
saned:x:130:
cyse301:x:1000:
sambashare:x:131:cyse301
wireshark:x:132:cyse301
ftp:x:133:
01206431:x:1001:
cyse301@ubuntu:~$

```

Above to delete the newtest group I used command “sudo groupdel newtest” sudo for authority and groupdel to delete the group and newtest as the group specified. Above I have a before and after using command “cat /etc/group “ to show the newtest group being removed.

```

Terminal
cyse301@ubuntu: ~
cyse301:x:1000:
sambashare:x:131:cyse301
wireshark:x:132:cyse301
ftp:x:133:
01206431:x:1001:
cyse301@ubuntu:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108:/:/home/syslog:/bin/false
_apt:x:105:65534:/:/nonexistent:/bin/false
messagebus:x:106:109:/:var/run/dbus:/bin/false
usermetrics:x:107:111:User Metrics:/var/lib/usermetrics:/bin/false
uidd:x:108:113:/:run/uidd:/bin/false
rtkit:x:109:114:RealtimeKit,,,:/proc:/bin/false
avahi-autoipd:x:110:115:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/bin/false
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/bin/false
lightdm:x:112:118:Light Display Manager:/var/lib/lightdm:/bin/false
whoopsie:x:113:122:/:/nonexistent:/bin/false
geoclue:x:114:123:/:var/lib/geoclue:/bin/false
kernoops:x:115:65534:Kernel Oops Tracking Daemon,,,:/bin/false
speech-dispatcher:x:116:29:Speech Dispatcher,,,:/var/run/speech-dispatcher:/bin/false
nm-openvpn:x:117:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/bin/false
avahi:x:118:125:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/bin/false
pulse:x:119:126:PulseAudio daemon,,,:/var/run/pulse:/bin/false
colord:x:120:129:colord colour management daemon,,,:/var/lib/colord:/bin/false
saned:x:121:130:/:var/lib/saned:/bin/false
hplip:x:122:7:HPLIP system user,,,:/var/run/hplip:/bin/false
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/bash
ftp:x:123:133:ftp daemon,,,:/srv/ftp:/bin/false
01206431:x:1001:1001:/:/home/01206431:/bin/bash
cyse301@ubuntu:~$

```

Above you see command “ cat /etc/passwd “ shows the user 01206431 still existing.

```
nal
cyse301@ubuntu: ~
ftp:x:133:
01206431:x:1001:
cyse301@ubuntu:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailin List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108:./home/syslog:/bin/false
_apt:x:105:65534:./nonexistent:/bin/false
messagebus:x:106:109:./var/run/dbus:/bin/false
usermetrics:x:107:111:User Metrics:/var/lib/usermetrics:/bin/false
uidd:x:108:113:./run/uidd:/bin/false
rtkit:x:109:114:RealtimeKit,,,:/proc:/bin/false
avahi-autoipd:x:110:115:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/bin/false
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/bin/false
lightdm:x:112:118:Light Display Manager:/var/lib/lightdm:/bin/false
whoopsie:x:113:122:./nonexistent:/bin/false
geoclue:x:114:123:./var/lib/geoclue:/bin/false
kernoops:x:115:65534:Kernel Oops Tracking Daemon,,,:/bin/false
speech-dispatcher:x:116:29:Speech Dispatcher,,,:/var/run/speech-dispatcher:/bin/false
nm-openvpn:x:117:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/bin/false
avahi:x:118:125:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/bin/false
pulse:x:119:126:PulseAudio daemon,,,:/var/run/pulse:/bin/false
colord:x:120:129:colord colour management daemon,,,:/var/lib/colord:/bin/false
saned:x:121:130:./var/lib/saned:/bin/false
hplip:x:122:7:HPLIP system user,,,:/var/run/hplip:/bin/false
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/bash
ftp:x:123:133:ftp daemon,,,:/srv/ftp:/bin/false
01206431:x:1001:1001:./home/01206431:/bin/bash
cyse301@ubuntu:~$ sudo userdel 01206431 -r
userdel: 01206431 mail spool (/var/mail/01206431) not found
userdel: 01206431 home directory (/home/01206431) not found
cyse301@ubuntu:~$
```

To delete the user I used command, “ sudo userdel 01206431 -r “ sudo for authority, userdel to delete the user, 01206431 specified after, and -r to delete the home directory as well.

```
cyse301@ubuntu: ~
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/bash
ftp:x:123:133:ftp daemon,,,:/srv/ftp:/bin/false
01206431:x:1001:1001:/:/home/01206431:/bin/bash
cyse301@ubuntu:~$ sudo userdel 01206431 -r
userdel: 01206431 mail spool (/var/mail/01206431) not found
userdel: 01206431 home directory (/home/01206431) not found
cyse301@ubuntu:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mail List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108:/:/home/syslog:/bin/false
_apt:x:105:65534:/:/nonexistent:/bin/false
messagebus:x:106:109:/:/var/run/dbus:/bin/false
usermetrics:x:107:111:User Metrics:/var/lib/usermetrics:/bin/false
uuid:x:108:113:/:/run/uuid:/bin/false
rtkit:x:109:114:RealtimeKit,,,:/proc:/bin/false
avahi-autoipd:x:110:115:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/bin/false
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/bin/false
lightdm:x:112:118:Light Display Manager:/var/lib/lightdm:/bin/false
whoopsie:x:113:122:/:/nonexistent:/bin/false
geoclue:x:114:123:/:/var/lib/geoclue:/bin/false
kernoops:x:115:65534:Kernel Oops Tracking Daemon,,,:/bin/false
speech-dispatcher:x:116:29:Speech Dispatcher,,,:/var/run/speech-dispatcher:/bin/false
nn-openvpn:x:117:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/bin/false
avahi:x:118:125:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/bin/false
pulse:x:119:126:PulseAudio daemon,,,:/var/run/pulse:/bin/false
colord:x:120:129:colord colour management daemon,,,:/var/lib/colord:/bin/false
saned:x:121:130:/:/var/lib/saned:/bin/false
hplip:x:122:7:HPLIP system user,,,:/var/run/hplip:/bin/false
cyse301:x:1000:1000:CYSE Student,,,:/home/cyse301:/bin/bash
ftp:x:123:133:ftp daemon,,,:/srv/ftp:/bin/false
cyse301@ubuntu:~$
```

When we retry command “ cat /etc/passwd “ we see no user 01206431 listed, letting us know the user was successfully deleted.

**END**