

CYSE 270: Linux System for Cybersecurity

Assignment: Lab 4 – User and Group Accounts

TASK A

```
(jason@jasonkali)-[~]
$ grep "$USER" /etc/passwd
jason:x:1000:1000:jason,,,:/home/jason:/usr/bin/zsh

(jason@jasonkali)-[~]
$ sudo grep "$USER" /etc/shadow
jason:$y$j9T$rVo70odd4tv/efItSs5j0/$UsV4MgKS2osP1QFCPhvR2saphK0qx0EV99xxvHne8oA:20328:0:99999:7:::

(jason@jasonkali)-[~]
$ sudo chage -l "$USER"
Last password change           : Aug 28, 2025
Password expires                : never
Password inactive              : never
Account expires                : never
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7

(jason@jasonkali)-[~]
$ sudo useradd -m -d /home/jcart098 jcart098

(jason@jasonkali)-[~]
$ sudo passwd jcart098
New password:
Retype new password:
passwd: password updated successfully

(jason@jasonkali)-[~]
$ sudo usermod -s /bin/bash jcart098

(jason@jasonkali)-[~]
$ grep jcart098 /etc/passwd
jcart098:x:1001:1001::/home/jcart098:/bin/bash

(jason@jasonkali)-[~]
$ sudo grep jcart098 /etc/shadow
jcart098:$y$j9T$rJYIhSkdfMbs3mAA63lsm1$AbK3US5y//6g9iso2vVpnLFJ6bMWMEMSkh9R1Rvz4q2:20354:0:99999:7:::

(jason@jasonkali)-[~]
$ sudo chage -l jcart098
Last password change           : Sep 23, 2025
Password expires                : never
Password inactive              : never
Account expires                : never
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
```

```
(jason@jasonkali)-[~]
$ sudo usermod -aG sudo jcart098

(jason@jasonkali)-[~]
$ su - jcart098
Password:
(jcart098@jasonkali)-[~]
$
```

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TASK B

```
(jcart098@jasonkali)-[~]
$ cd ~

(jcart098@jasonkali)-[~]
$ echo $SHELL
/bin/bash

(jcart098@jasonkali)-[~]
$ id
uid=1001(jcart098) gid=1001(jcart098) groups=1001(jcart098),27(sudo)

(jcart098@jasonkali)-[~]
$ groups
jcart098 sudo

(jcart098@jasonkali)-[~]
$ groups root
root : root

(jcart098@jasonkali)-[~]
$ ls -l /etc/group
-rw-r--r-- 1 root root 1316 Sep 23 11:32 /etc/group

(jcart098@jasonkali)-[~]
$ sudo groupadd -g 01334574 test
[sudo] password for jcart098:

(jcart098@jasonkali)-[~]
$ grep test /etc/group
test:x:1334574:

(jcart098@jasonkali)-[~]
$ sudo groupmod -n newtest test

(jcart098@jasonkali)-[~]
$ sudo usermod -aG newtest jcart098
```

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```
(jcart098@jasonkali)-[~]
$ touch ~/testfile

(jcart098@jasonkali)-[~]
$ sudo chgrp newtest ~/testfile

(jcart098@jasonkali)-[~]
$ ls -l ~/testfile
-rw-rw-r-- 1 jcart098 newtest 0 Sep 23 11:38 /home/jcart098/testfile

(jcart098@jasonkali)-[~]
$ sudo groupdel newtest

(jcart098@jasonkali)-[~]
$ ls -l ~/testfile
-rw-rw-r-- 1 jcart098 1334574 0 Sep 23 11:38 /home/jcart098/testfile

(jcart098@jasonkali)-[~]
$ sudo userdel -r jcart098
userdel: user jcart098 is currently used by process 11243

(jcart098@jasonkali)-[~]
$
```