

Aiden Johnson Assignment 4

TASK A

Explanations

Step 1 - Using grep will search a file for a specific pattern of text, so it will look for aiden in the /etc/passwd directory.

Step 2 - Using sudo will allow you to bypass the protected access on /etc/shadow, and the sudo command will enable you to use elevated privileges on the root.

Step 3 - The useradd command will make a new user, and the -m is the command to make a new home directory. The -d /home command tells the code where to place the home directory.

Step 4 - passwd is the command to change a passwd, so passwd aiden would change the password for aiden.

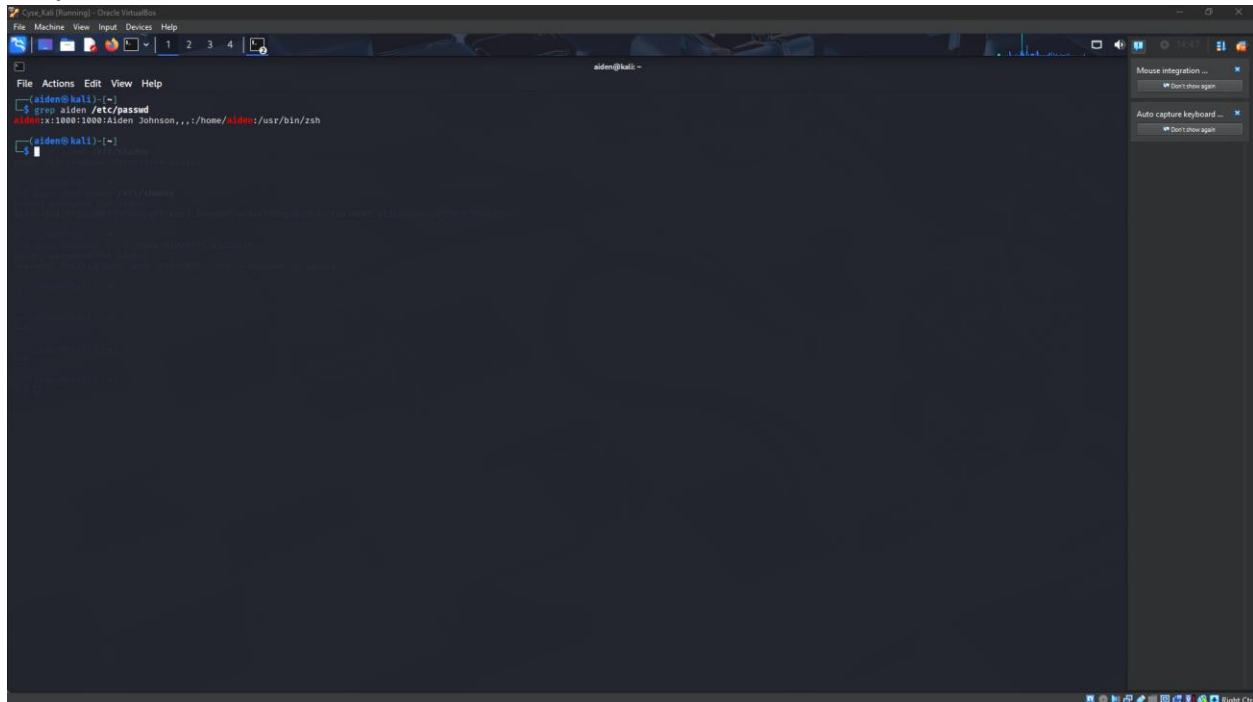
Step 5 - The chsh command will change the login for the shell -s /bin/bash will change the /bin/bash as the login for the shell

Step 6 - This is the same thing as Step 2 ,but checking the password and the aging on ajohn237

Step 7 - usermod is the command to change an existing user you have. -a command will append something. So -aG sudo would append ajohn237 to the -G sudo. But the -G will make it so that it doesn't remove anything.

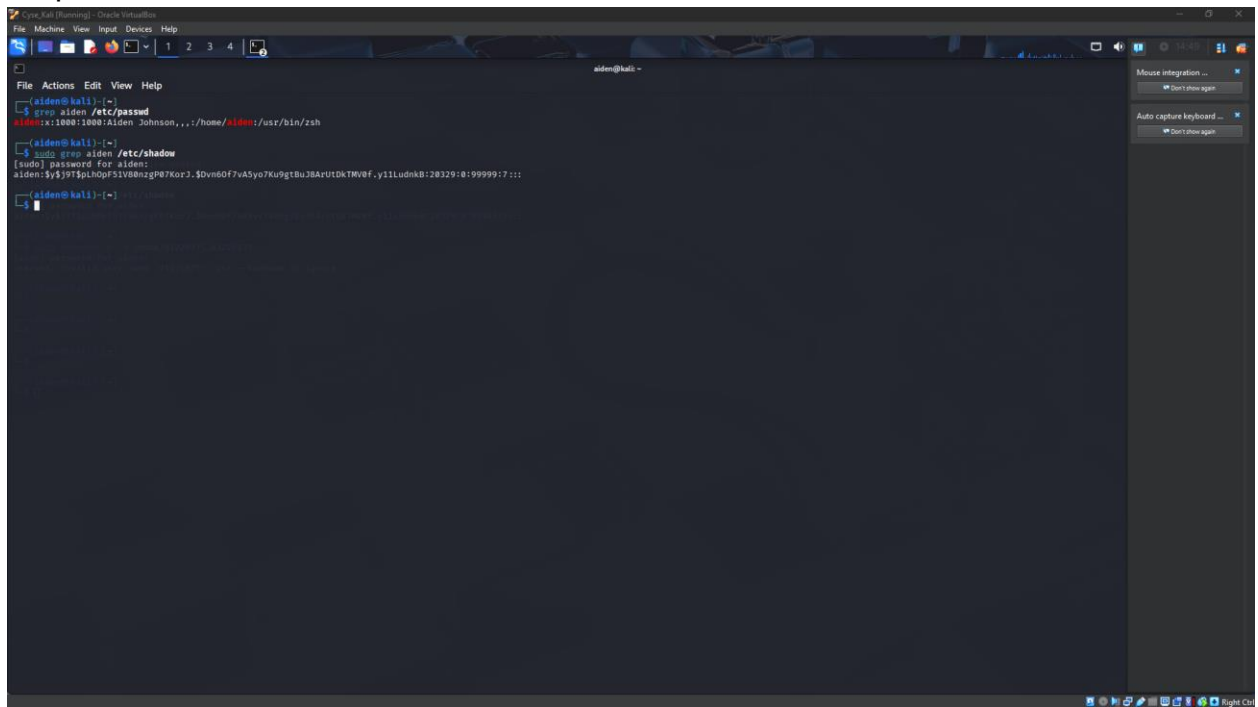
Step 8 - su is the command to change user, so su - ajohn237 would change you into ajohn237.

Step 1



```
aiden@kali ~  
File Actions Edit View Help  
- (aiden@kali) ~ -  
$ grep aiden /etc/passwd  
aiden:x:1000:1000:Aiden Johnson,,,:/home/aiden:/usr/bin/zsh  
- (aiden@kali) ~ -
```

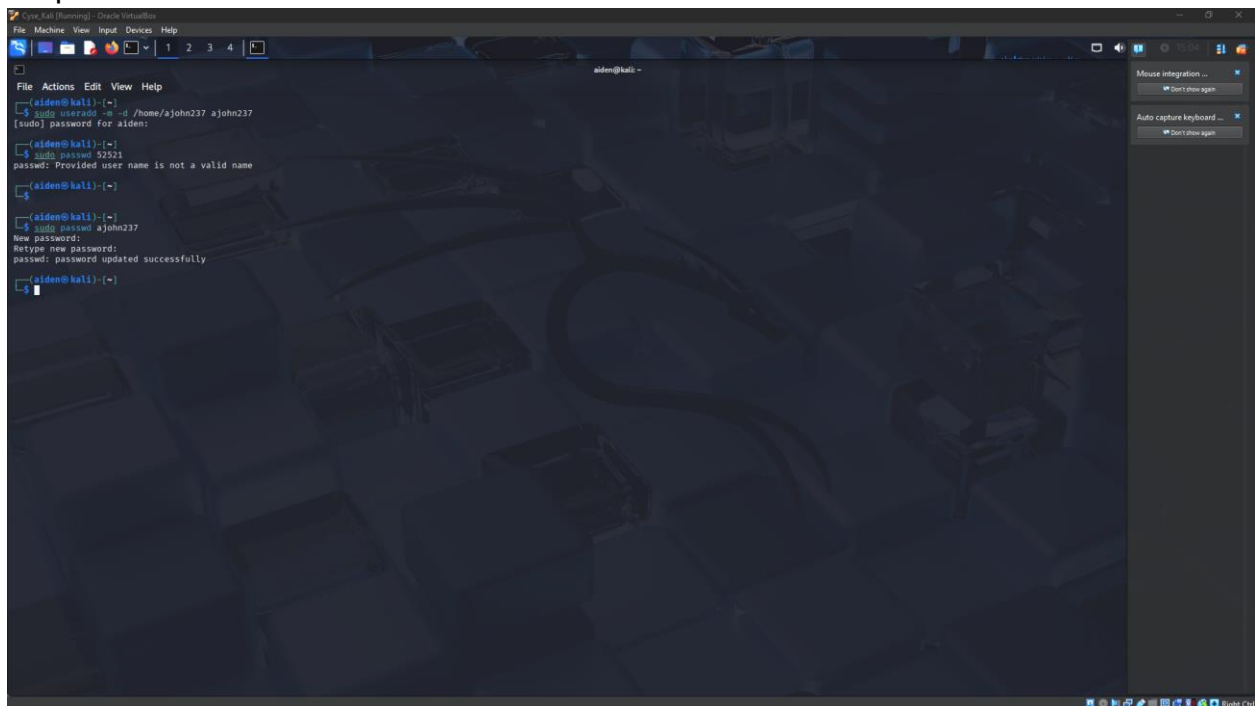
Step 2



```
aiden@kali:~$ grep aiden /etc/passwd
aiden:xz18W:1809:Aiden Johnson,,,:/home/aiden:/usr/bin/zsh

aiden@kali:~$ sudo grep aiden /etc/shadow
[sudo] password for aiden:
aiden:$$97$PLnopf51v88nzgP87Kor3.$Dvn6f7vA5yo7Ku9gtBu2BArUtDKTMVef.y11LudnkB:28329:0:99999:7:::
```

Step 3



```
aiden@kali:~$ sudo useradd -m -d /home/ajohn237 ajohn237
[sudo] password for aiden:

aiden@kali:~$ sudo passwd 52521
passwd: Provided user name is not a valid name

aiden@kali:~$

aiden@kali:~$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully

aiden@kali:~$
```

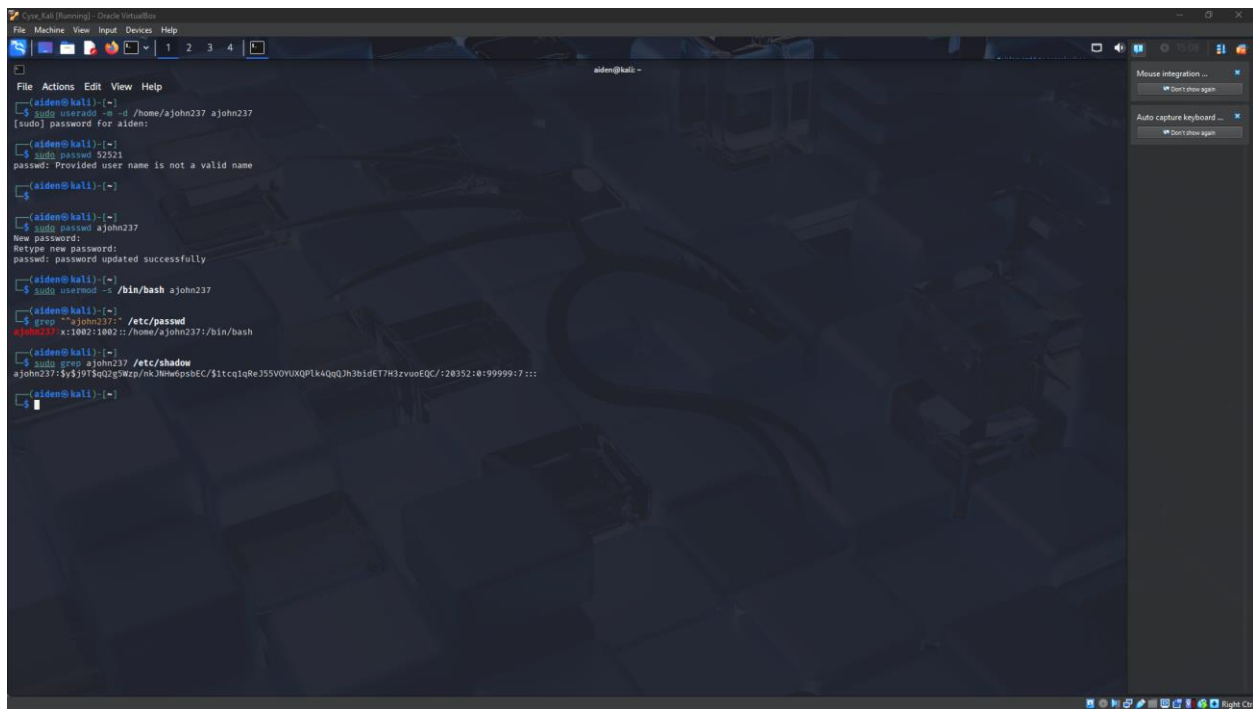
Step 4

```
Cyber_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
aiden@kali -
File Actions Edit View Help
- (aiden@kali) [-]
$ sudo useradd -m -d /home/ajohn237 ajohn237
[sudo] password for aiden:
- (aiden@kali) [-]
$ sudo passwd 52521
passwd: Provided user name is not a valid name
- (aiden@kali) [-]
$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
- (aiden@kali) [-]
```

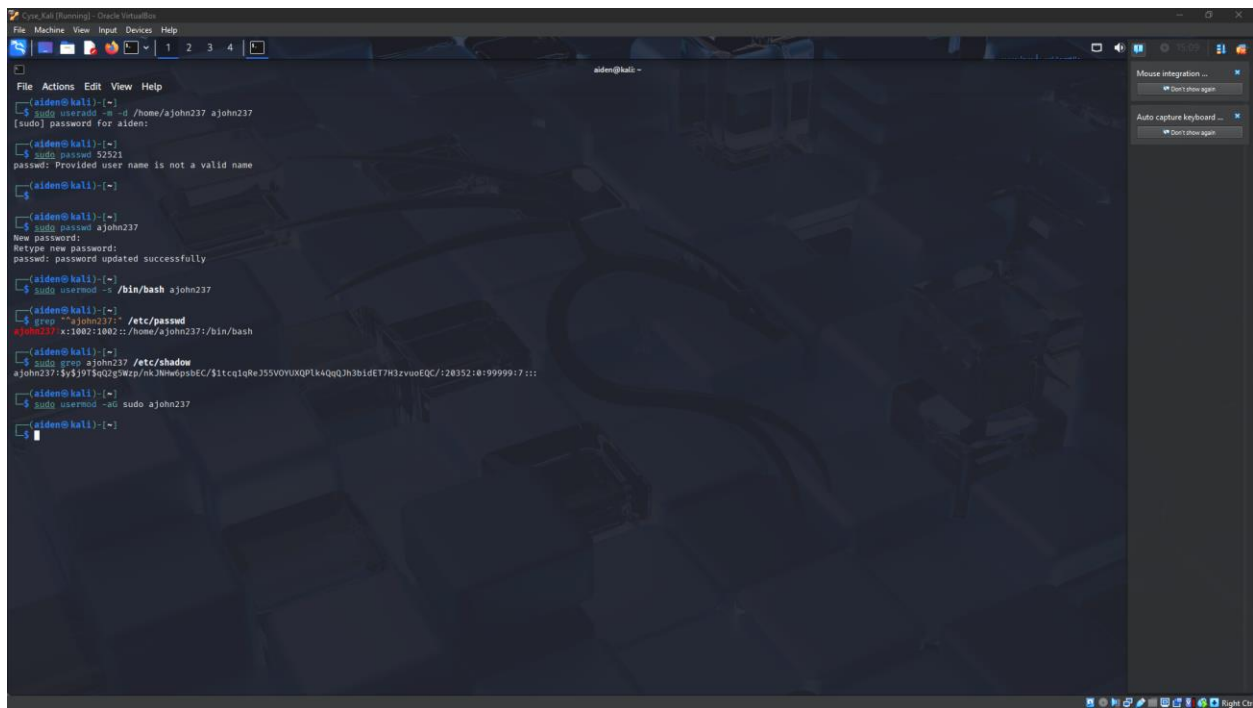
Step 5

```
Cyber_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
aiden@kali -
File Actions Edit View Help
- (aiden@kali) [-]
$ sudo useradd -m -d /home/ajohn237 ajohn237
[sudo] password for aiden:
- (aiden@kali) [-]
$ sudo passwd 52521
passwd: Provided user name is not a valid name
- (aiden@kali) [-]
$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
- (aiden@kali) [-]
$ sudo usermod -s /bin/bash ajohn237
- (aiden@kali) [-]
$ grep '^ajohn237:' /etc/passwd
ajohn237:x:1002:1002::/home/ajohn237:/bin/bash
- (aiden@kali) [-]
```

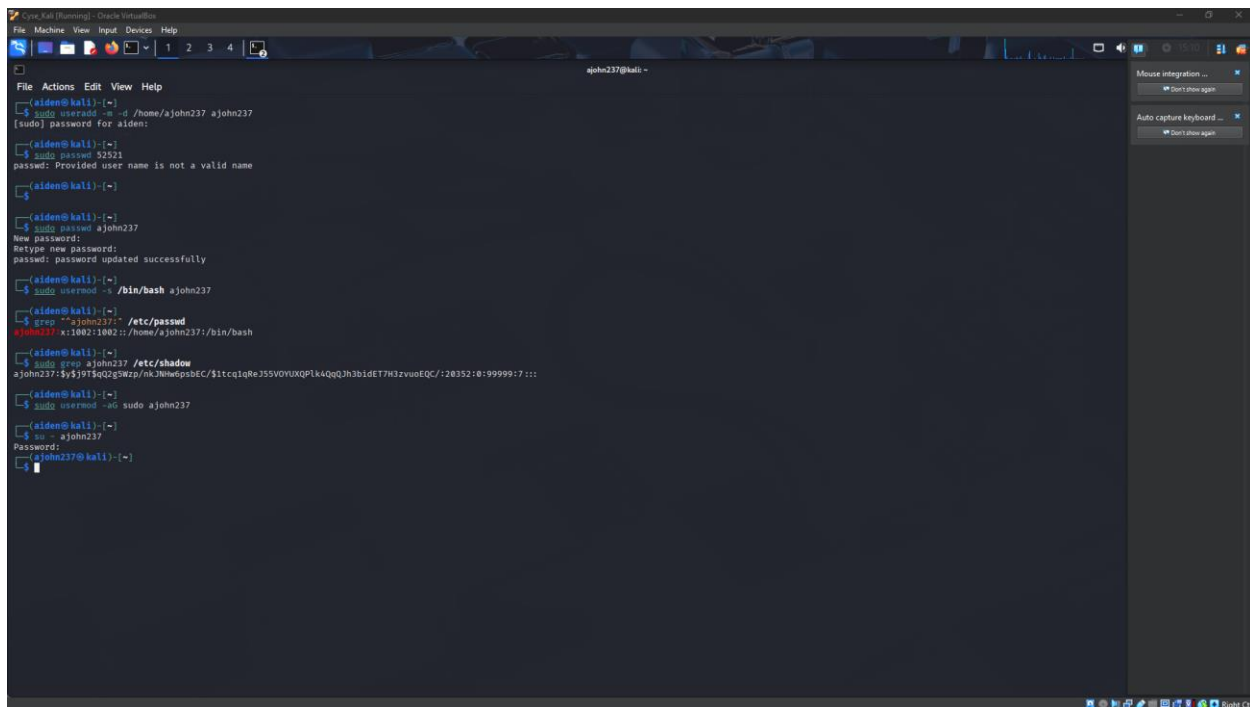
Step 6



Step 7



Step 8



```
(aiden@kali) ~
└─$ cd ~
└─$ echo $SHELL
/bin/bash
└─$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237)
└─$ sudo useradd -m -d /home/ajohn237 ajohn237
[sudo] password for aiden:
└─$ sudo passwd ajohn237
New password:
Re-type new password:
passwd: password updated successfully
└─$ sudo usermod -s /bin/bash ajohn237
└─$ grep "ajohn237:" /etc/passwd
ajohn237:x:1002:1002::/home/ajohn237:/bin/bash
└─$ sudo groupadd -g 1003 ajohn237
└─$ sudo usermod -G sudo ajohn237
└─$ su - ajohn237
Password:
ajohn237@kali:~$
```

TASK B

Explanations

Step 1 - 'cd' is the command for changing directories, and '~' is your home directory. Echo is the command for print, and \$SHELL is a variable that stores the path of the shell that you log into.

Step 2 - The id command will print all of your IDs, so the numbers one, group, and the groups you are in/

Step 3 - The root command is another command that grants full access, similar to sudo. So the groups root will tell you all of the groups you are in.

Step 4 - ls -l is the command that shows you the files, but in a long list way. So the command will list out the files in /etc/group in a long format.

Step 5 - The groupadd command is the way to create a group, and the -g will make the group ID the UIN. The ending part is the name of the group.

Step 6 - grep will search a file for a specific pattern of text, so it will look for files in /etc/group with the test

Step 7 - groupmod will change a group -n will change the name of the file

Step 8 - usermod changes an account, -g will append something, so -aG will append the account to the newest group. But the -G will make it so that it doesn't remove anything.

Step 9 - touch is the command to make a new and clear file. So touch ~/testfile will make a new file in the ~ directory.

Step 10 - ls -l is the way to long list files, it will do a long list of testfile


```
Cyrex_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
ajohn237@kali ~
File Actions Edit View Help
-(aiden@kali)-[~]
└─$ sudo useradd -m -d /home/ajohn237 ajohn237
[sudo] password for aiden:
-(aiden@kali)-[~]
└─$ sudo passwd 52521
passwd: Provided user name is not a valid name
-(aiden@kali)-[~]
└─$
-(aiden@kali)-[~]
└─$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
-(aiden@kali)-[~]
└─$ sudo usermod -s /bin/bash ajohn237
-(aiden@kali)-[~]
└─$ grep ""ajohn237:" /etc/passwd
ajohn237:x:1002:1002::/home/ajohn237:/bin/bash
-(aiden@kali)-[~]
└─$ sudo grep ajohn237 /etc/shadow
ajohn237:$5$j9T$2g3WzP/nk3NhwpsbEC/$1tcq1qReJ55VOYUQP1k4QqJh3b1dET7H3zvu0EQC/:20352:0:199999:7:::
-(aiden@kali)-[~]
└─$ sudo usermod -sg sudo ajohn237
-(aiden@kali)-[~]
└─$ su - ajohn237
Password:
-(ajohn237@kali)-[~]
└─$ cd -
-(ajohn237@kali)-[~]
└─$ echo $SHELL
/bin/bash
-(ajohn237@kali)-[~]
└─$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
-(ajohn237@kali)-[~]
└─$
```

Step 3

```
Cyrex_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
ajohn237@kali ~
File Actions Edit View Help
-(aiden@kali)-[~]
└─$ sudo useradd -m -d /home/ajohn237 ajohn237
[sudo] password for aiden:
-(aiden@kali)-[~]
└─$ sudo passwd 52521
passwd: Provided user name is not a valid name
-(aiden@kali)-[~]
└─$
-(aiden@kali)-[~]
└─$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
-(aiden@kali)-[~]
└─$ sudo usermod -s /bin/bash ajohn237
-(aiden@kali)-[~]
└─$ grep ""ajohn237:" /etc/passwd
ajohn237:x:1002:1002::/home/ajohn237:/bin/bash
-(aiden@kali)-[~]
└─$ sudo grep ajohn237 /etc/shadow
ajohn237:$5$j9T$2g3WzP/nk3NhwpsbEC/$1tcq1qReJ55VOYUQP1k4QqJh3b1dET7H3zvu0EQC/:20352:0:199999:7:::
-(aiden@kali)-[~]
└─$ sudo usermod -sg sudo ajohn237
-(aiden@kali)-[~]
└─$ su - ajohn237
Password:
-(ajohn237@kali)-[~]
└─$ cd -
-(ajohn237@kali)-[~]
└─$ echo $SHELL
/bin/bash
-(ajohn237@kali)-[~]
└─$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
-(ajohn237@kali)-[~]
└─$ groups root
root : root
-(ajohn237@kali)-[~]
└─$
```

Step 4

```
Cyrex_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
ajohn237@kali ~
File Actions Edit View Help
-(ajohn237@kali) ~-
$ sudo useradd -m -d /home/ajohn237 ajohn237
[sudo] password for aiden:
-(ajohn237@kali) ~-
$ sudo passwd 52521
passwd: Provided user name is not a valid name
-(ajohn237@kali) ~-
$
-(ajohn237@kali) ~-
$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
-(ajohn237@kali) ~-
$ sudo usermod -s /bin/bash ajohn237
-(ajohn237@kali) ~-
$ grep ""ajohn237: /etc/passwd
ajohn237: x:1002:1002::/home/ajohn237:/bin/bash
-(ajohn237@kali) ~-
$ sudo grep ajohn237 /etc/shadow
ajohn237:$y$j9T$Q2g3WzP/nk3NhwpsbEC/$1tcqIqReJ55VOYUQP1k4QqJh3b1dET7H3zvu0EQC/:20352:0:99999:7:::
-(ajohn237@kali) ~-
$ sudo usermod -sg sudo ajohn237
-(ajohn237@kali) ~-
$ su - ajohn237
Password:
-(ajohn237@kali) ~-
$ cd -
-(ajohn237@kali) ~-
$ echo $SHELL
/bin/bash
-(ajohn237@kali) ~-
$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
-(ajohn237@kali) ~-
$ groups root
root : root
-(ajohn237@kali) ~-
$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group
-(ajohn237@kali) ~-

```

Step 5

```
Cyrex_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
ajohn237@kali ~
File Actions Edit View Help
-(ajohn237@kali) ~-
$ sudo passwd 52521
passwd: Provided user name is not a valid name
-(ajohn237@kali) ~-
$
-(ajohn237@kali) ~-
$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
-(ajohn237@kali) ~-
$ sudo usermod -s /bin/bash ajohn237
-(ajohn237@kali) ~-
$ grep ""ajohn237: /etc/passwd
ajohn237: x:1002:1002::/home/ajohn237:/bin/bash
-(ajohn237@kali) ~-
$ sudo grep ajohn237 /etc/shadow
ajohn237:$y$j9T$Q2g3WzP/nk3NhwpsbEC/$1tcqIqReJ55VOYUQP1k4QqJh3b1dET7H3zvu0EQC/:20352:0:99999:7:::
-(ajohn237@kali) ~-
$ sudo usermod -sg sudo ajohn237
-(ajohn237@kali) ~-
$ su - ajohn237
Password:
-(ajohn237@kali) ~-
$ cd -
-(ajohn237@kali) ~-
$ echo $SHELL
/bin/bash
-(ajohn237@kali) ~-
$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
-(ajohn237@kali) ~-
$ groups root
root : root
-(ajohn237@kali) ~-
$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group
-(ajohn237@kali) ~-
$ sudo groupadd -g 01226975 test
[sudo] password for ajohn237:
-(ajohn237@kali) ~-

```

Step 6

```
Cyax_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
File Actions Edit View Help
john237@kali ~
(aiden@kali) ~
└─$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
(aiden@kali) ~
└─$ sudo usermod -s /bin/bash ajohn237
(aiden@kali) ~
└─$ grep '^ajohn237:' /etc/passwd
ajohn237:x:1002:1002::/home/ajohn237:/bin/bash
(aiden@kali) ~
└─$ sudo grep ajohn237 /etc/shadow
ajohn237:$y$j9T$Q2g$WzP/nk.JhW6psbEC/$1tcqIqReJ5SV0VUXQPlk4QqQJh3b1dET7H3zvu0EQC/:20352:0:99999:7:::
(aiden@kali) ~
└─$ sudo usermod -sg sudo ajohn237
(aiden@kali) ~
└─$ su - ajohn237
Password:
(ajohn237@kali) ~
└─$ cd -
(ajohn237@kali) ~
└─$ echo $SHELL
/bin/bash
(ajohn237@kali) ~
└─$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
(ajohn237@kali) ~
└─$ groups root
root : root
(ajohn237@kali) ~
└─$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group
(ajohn237@kali) ~
└─$ sudo groupadd -g 01226975 test
[sudo] password for ajohn237:
(ajohn237@kali) ~
└─$ grep test /etc/group
test:x:1226975:
(ajohn237@kali) ~
```

Step 7

```
Cyax_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
File Actions Edit View Help
john237@kali ~
(aiden@kali) ~
└─$ sudo passwd ajohn237
New password:
Retype new password:
passwd: password updated successfully
(aiden@kali) ~
└─$ sudo usermod -s /bin/bash ajohn237
(aiden@kali) ~
└─$ grep '^ajohn237:' /etc/passwd
ajohn237:x:1002:1002::/home/ajohn237:/bin/bash
(aiden@kali) ~
└─$ sudo grep ajohn237 /etc/shadow
ajohn237:$y$j9T$Q2g$WzP/nk.JhW6psbEC/$1tcqIqReJ5SV0VUXQPlk4QqQJh3b1dET7H3zvu0EQC/:20352:0:99999:7:::
(aiden@kali) ~
└─$ sudo usermod -sg sudo ajohn237
(aiden@kali) ~
└─$ su - ajohn237
Password:
(ajohn237@kali) ~
└─$ cd -
(ajohn237@kali) ~
└─$ echo $SHELL
/bin/bash
(ajohn237@kali) ~
└─$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
(ajohn237@kali) ~
└─$ groups root
root : root
(ajohn237@kali) ~
└─$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group
(ajohn237@kali) ~
└─$ sudo groupadd -g 01226975 test
[sudo] password for ajohn237:
(ajohn237@kali) ~
└─$ grep test /etc/group
test:x:1226975:
(ajohn237@kali) ~
└─$ sudo groupmod -n newtest test
(ajohn237@kali) ~
```

Step 8

```
Cyax_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
apohn237@kali ~
File Actions Edit View Help
New password:
Retype new password:
passwd: password updated successfully

--(aiden@kali)-[~]
└─$ sudo usermod -s /bin/bash ajohn237

--(aiden@kali)-[~]
└─$ grep '^ajohn237: /etc/passwd
ajohn237:x:1002:1002::/home/ajohn237:/bin/bash

--(aiden@kali)-[~]
└─$ sudo grep ajohn237 /etc/shadow
ajohn237:$y$j9T$Qz2g5WzP/nk3Nhw0psbEC/$1tcqIqReJ55V0YUxQP1k4QqQJh3b1dE7H3zvu0EQC/:20352:0:99999:7:::

--(aiden@kali)-[~]
└─$ sudo usermod -ag sudo ajohn237

--(aiden@kali)-[~]
└─$ su - ajohn237
Password:
--(ajohn237@kali)-[~]
└─$ cd -

--(ajohn237@kali)-[~]
└─$ echo $SHELL
/bin/bash

--(ajohn237@kali)-[~]
└─$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)

--(ajohn237@kali)-[~]
└─$ groups root
root : root

--(ajohn237@kali)-[~]
└─$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group

--(ajohn237@kali)-[~]
└─$ sudo groupadd -g 01226975 test
[sudo] password for ajohn237:

--(ajohn237@kali)-[~]
└─$ grep test /etc/group
test:x:01226975:

--(ajohn237@kali)-[~]
└─$ sudo groupmod -n newestest test

--(ajohn237@kali)-[~]
└─$ sudo usermod -ag newestest ajohn237

--(ajohn237@kali)-[~]
└─$
```

Step 9

```
Cyax_Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
apohn237@kali ~
File Actions Edit View Help
--(aiden@kali)-[~]
└─$ sudo grep ajohn237 /etc/shadow
ajohn237:$y$j9T$Qz2g5WzP/nk3Nhw0psbEC/$1tcqIqReJ55V0YUxQP1k4QqQJh3b1dE7H3zvu0EQC/:20352:0:99999:7:::

--(aiden@kali)-[~]
└─$ sudo usermod -ag sudo ajohn237

--(aiden@kali)-[~]
└─$ su - ajohn237
Password:
--(ajohn237@kali)-[~]
└─$ cd -

--(ajohn237@kali)-[~]
└─$ echo $SHELL
/bin/bash

--(ajohn237@kali)-[~]
└─$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)

--(ajohn237@kali)-[~]
└─$ groups root
root : root

--(ajohn237@kali)-[~]
└─$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group

--(ajohn237@kali)-[~]
└─$ sudo groupadd -g 01226975 test
[sudo] password for ajohn237:

--(ajohn237@kali)-[~]
└─$ grep test /etc/group
test:x:01226975:

--(ajohn237@kali)-[~]
└─$ sudo groupmod -n newestest test

--(ajohn237@kali)-[~]
└─$ sudo usermod -ag newestest ajohn237

--(ajohn237@kali)-[~]
└─$ touch ~/testfile

--(ajohn237@kali)-[~]
└─$ sudo chown :newtest ~/testfile
sudo: chown: command not found

--(ajohn237@kali)-[~]
└─$ sudo chown :newtest ~/testfile

--(ajohn237@kali)-[~]
└─$
```

Step 10

```
ajohn237@kali ~$ sudo usermod -sG sudo ajohn237
ajohn237@kali ~$ su - ajohn237
ajohn237@kali ~$ cd ~
ajohn237@kali ~$ echo $SHELL
/bin/bash
ajohn237@kali ~$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
ajohn237@kali ~$ groups root
root : root
ajohn237@kali ~$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group
ajohn237@kali ~$ sudo groupadd -g 01226975 test
[sudo] password for ajohn237:
ajohn237@kali ~$ grep test /etc/group
test:x:1226975:
ajohn237@kali ~$ sudo groupmod -n newtest test
ajohn237@kali ~$ sudo usermod -sG newtest ajohn237
ajohn237@kali ~$ touch ~/testfile
ajohn237@kali ~$ sudo chown :newtest ~/testfile
sudo: chown: command not found
ajohn237@kali ~$ sudo chown :newtest ~/testfile
ajohn237@kali ~$ ls -l ~/testfile
-rw-rw-r-- 1 ajohn237 newtest 0 Sep 21 15:25 /home/ajohn237/testfile
ajohn237@kali ~$
```

Step 11

```
ajohn237@kali ~$ cd ~
ajohn237@kali ~$ echo $SHELL
/bin/bash
ajohn237@kali ~$ id
uid=1002(ajohn237) gid=1002(ajohn237) groups=1002(ajohn237),27(sudo)
ajohn237@kali ~$ groups root
root : root
ajohn237@kali ~$ ls -l /etc/group
-rw-r--r-- 1 root root 1333 Sep 21 15:09 /etc/group
ajohn237@kali ~$ sudo groupadd -g 01226975 test
[sudo] password for ajohn237:
ajohn237@kali ~$ grep test /etc/group
test:x:1226975:
ajohn237@kali ~$ sudo groupmod -n newtest test
ajohn237@kali ~$ sudo usermod -sG newtest ajohn237
ajohn237@kali ~$ touch ~/testfile
ajohn237@kali ~$ sudo chown :newtest ~/testfile
sudo: chown: command not found
ajohn237@kali ~$ sudo chown :newtest ~/testfile
ajohn237@kali ~$ ls -l ~/testfile
-rw-rw-r-- 1 ajohn237 newtest 0 Sep 21 15:25 /home/ajohn237/testfile
ajohn237@kali ~$ sudo groupdel newtest
ajohn237@kali ~$ ls -l ~/testfile
-rw-rw-r-- 1 ajohn237 1226975 0 Sep 21 15:25 /home/ajohn237/testfile
ajohn237@kali ~$
```

Step 12

