

Lab 6 – File Permission

Step 1, 2

```
(matthew-f@kali)-[~]
└─$ sudo groupadd employee
[sudo] password for matthew-f:

(matthew-f@kali)-[~]
└─$ sudo groupadd payroll

(matthew-f@kali)-[~]
└─$ sudo groupadd admin

(matthew-f@kali)-[~]
└─$ sudo useradd Sophia

(matthew-f@kali)-[~]
└─$ sudo useradd Olivia

(matthew-f@kali)-[~]
└─$ sudo useradd Emma

(matthew-f@kali)-[~]
└─$ sudo passwd Sophia
New password:
Retype new password:
passwd: password updated successfully

(matthew-f@kali)-[~]
└─$ sudo passwd Olivia
New password:
Retype new password:
passwd: password updated successfully

(matthew-f@kali)-[~]
└─$ sudo passwd Emma
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged

(matthew-f@kali)-[~]
└─$ sudo passwd Emma
New password:
Retype new password:
passwd: password updated successfully

(matthew-f@kali)-[~]
└─$ █
```

```
(matthew-f@kali)-[~]
└─$ sudo usermod -g employee Sophia

(matthew-f@kali)-[~]
└─$ sudo usermod -g payroll Olivia

(matthew-f@kali)-[~]
└─$ sudo usermod -g admin Emma

(matthew-f@kali)-[~]
└─$ sudo usermod -s /bin/bash Sophia

(matthew-f@kali)-[~]
└─$ sudo usermod -s /bin/bash Olivia

(matthew-f@kali)-[~]
└─$ sudo usermod -s /bin/bash Emma
```

Step 3

```
(matthew-f@kali)-[~]
└─$ sudo groupadd mfox014

(matthew-f@kali)-[~]
└─$ sudo usermod -G mfox014 Olivia

(matthew-f@kali)-[~]
└─$ sudo usermod -G mfox014 Emma

(matthew-f@kali)-[~]
└─$ sudo usermod -G mfox014 Sophia

(matthew-f@kali)-[~]
└─$ groups Sophia
Sophia : employee mfox014

(matthew-f@kali)-[~]
└─$ groups Emma
Emma : admin mfox014

(matthew-f@kali)-[~]
└─$ groups Olivia
Olivia : payroll mfox014
```

Step 4.

```
(matthew-f@kali)-[~]
└─$ sudo chgrp mfox014 /home/cyse_project
```

Step 5.

```
(matthew-f@kali)-[~]
└─$ sudo chmod 770 /home/cyse_project
```

Step 6.

```
Sophia@kali:/home/matthew-f$ umask
0022
Sophia@kali:/home/matthew-f$ umask 027
Sophia@kali:/home/matthew-f$ umask
0027
```

Step 7.

```
$ touch Sophia_homework
$ echo matthew fox > Sophia_homework
$ cat Sophia_homework
matthew fox
$ ls -l Sophia_homework
-rw-r----- 1 Sophia employee 12 Oct 12 18:33 Sophia_homework
$
```

Step 8.

```
$ cp Sophia_homework /home/cyse_project
$
```

Step 9.

```
$ cd /home/cyse_project
$ pwd
/home/cyse_project
$ cat Sophia_homework
cat: Sophia_homework: Permission denied
```

Step 10

```
$ su - matthew-f
Password:
(matthew-f@kali)-[~]
└─$
```

Task B

Step 1.

```
(matthew-f@kali)-[~]  
└─$ sudo chmod g+s /home/cyse_project
```

Step 2.

```
(matthew-f@kali)-[~]  
└─$ su - Sophia  
Password:  
$ mv Sophia_homework Sophia_homework2  
$ cp Sophia_homework2 > /home/Cyse_project  
-sh: 2: cannot create /home/Cyse_project: Permission denied  
$ cp Sophia_homework2 /home/cyse_project
```

Step 3.

```
$ su - Emma  
Password:  
$ cat Sophia_homework2  
cat: Sophia_homework2: No such file or directory  
$ cd /home/cyse_project  
$ cat Sophia_homework2  
matthew fox  
$
```

Task C

Task 1

```
(matthew-f@kali)-[~]  
└─$ sudo chmod g-s /home/cyse_project/
```

Task 2,3

```
(matthew-f@kali)-[~]
└─$ su - Sophia
Password:
$ mv Sophia_homework2 Sophia_homework3
$ cp Sophia_homework3 /home/cyse_project
$ su - Emma
Password:
$ cd /home/cyse_project
$ pwd
/home/cyse_project
$ cat Sophia_homework3
cat: Sophia_homework3: Permission denied
$
```