Linux Task

1. **Create a folder called /tmp/myteam.**

```
┌──(kali㉿kali)-[~]
└─$ pwd
/home/kali

┌──(kali㉿kali)-[~]
└─$ ls
Desktop    Downloads     gobuster.common  key-1-of-3.txt  Pictures  reverse.exe  Templates  yarGen
Documents  fsocity.dic   hydra.restore    Music           Public    Sublist3r    Videos     yarGen.tar.gz

┌──(kali㉿kali)-[~]
└─$ cd ..

┌──(kali㉿kali)-[/home]
└─$ ls
kali

┌──(kali㉿kali)-[/home]
└─$ cd ..

┌──(kali㉿kali)-[/]
└─$ ls
bin   dev  home        initrd.img.old  lib32  lost+found  mnt  proc  run   srv       sys  usr  vmlinuz
boot  etc  initrd.img  lib            lib64  media       opt  root  sbin  swapfile  tmp  var  vmlinuz.old

┌──(kali㉿kali)-[/]
└─$ cd tmp
```

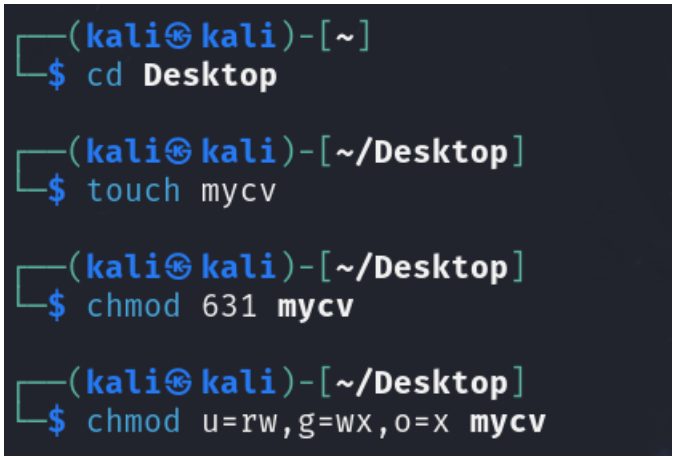
2. **Change its permissions to read only for the owner.**

```
┌──(kali㉿kali)-[/tmp]
└─$ mkdir myteam

┌──(kali㉿kali)-[/tmp]
└─$ chmod 400 myteam
```

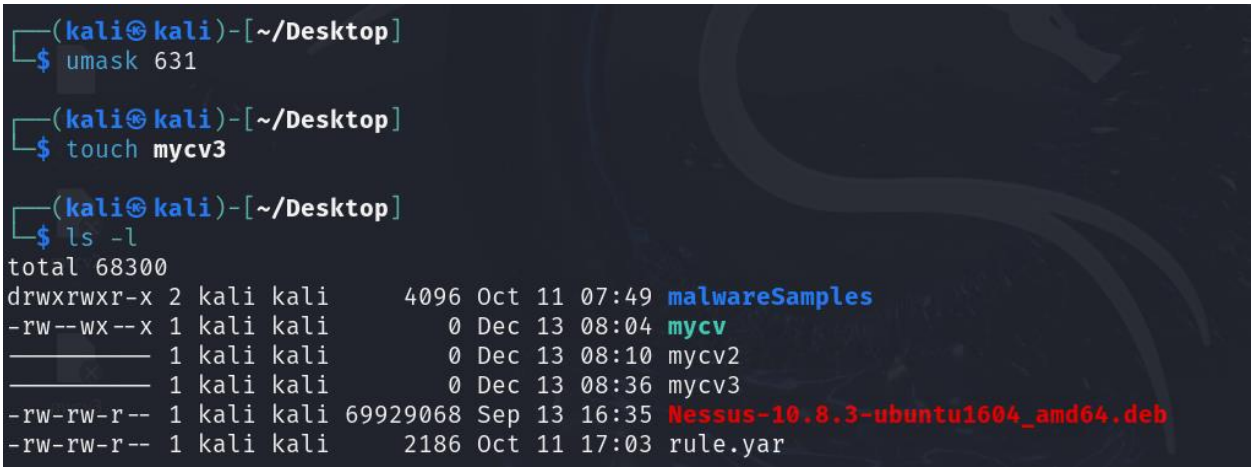
3. **Log out and log in by another user. Try to access the folder.**

```
┌──(suhaila㉿kali)-[/home]
└─$ cd ..

┌──(suhaila㉿kali)-[/]
└─$ cd /tmp/myteam
-bash: cd: /tmp/myteam: Permission denied
```

4. **Using the command Line Change the permissions of mycv file to give owner read and write permissions and for group write and execute and execute only for the others (using chmod in 2 different ways).**



5. **Change your default permissions to be as above (question 4).**



6. **What is the maximum permission a file can have, by default when it is just created? And what is that for directory.**

For Files:

- **Maximum Permissions:** 666 (Read and Write for Owner, Group, and Others)
  - Files do not have execute (x) permission by default for security reasons.

For Directories:

- **Maximum Permissions:** 777 (Read, Write, and Execute for Owner, Group, and Others)
  - Directories need execute (x) permission for users to traverse or access the contents.

7. **Change your default permissions to be no permission to everyone then create a directory and a file to verify.**

```
┌──(kali㉿kali)-[~/Desktop]
└─$ umask 0777

┌──(kali㉿kali)-[~/Desktop]
└─$ mkdir dir1

┌──(kali㉿kali)-[~/Desktop]
└─$ ls -l
total 68304
d--------- 2 kali kali     4096 Dec 13 09:36 dir1
drwxrwxr-x 2 kali kali     4096 Oct 11 07:49 malwareSamples
-rw--wx--x 1 kali kali        0 Dec 13 08:04 mycv
---------- 1 kali kali        0 Dec 13 08:10 mycv2
---------- 1 kali kali        0 Dec 13 08:36 mycv3
-rw-rw-r-- 1 kali kali 69929068 Sep 13 16:35 Nessus-10.8.3-ubuntu1604_amd64.deb
-rw-rw-r-- 1 kali kali     2186 Oct 11 17:03 rule.yar
```

8. **What is the minimum permission needed for:**
   - **Copy a directory (source and target)**
     Source: rx
     Target: wx
   - **Copy a file (source and target)**
     Source: r
     Target: wx
   - **Delete a file:** wx
   - **Change to a directory:** x
   - **List a directory content:** rx
   - **View a file content:** r
   - **Modify a file content:** w

9. **Create a file with permission 444. Try to edit in it and to remove it? Note what happened. (notice write protection in Linux).**

```
┌──(kali㉿kali)-[~/Desktop]
└─$ touch file1

┌──(kali㉿kali)-[~/Desktop]
└─$ chmod 444 file1

┌──(kali㉿kali)-[~/Desktop]
└─$ rm file1
rm: remove write-protected regular empty file 'file1'?
```