# Lautaro Ezequiel Novelli Google Cybersecurity Professional Certificate

#### Portfolio Activity: Use Linux commands to manage file permissions

## File permissions in Linux

## Project description

Use linux commands to manage file permissions

## Check file and directory details

In the /home/researcher2/projects directory, there are five files with the following names and permissions:

project\_k.txt O User = read, write, O Group = read, write Other = read. write project m.txt O User = read, write ○ Group = read Other = none project r.txt O User= read, write O Group = read, write Other = read project t.txt O User = read, write O Group = read, write Other = read

User = read, writeGroup = writeOther = none

There is also one subdirectory inside the projects directory named drafts. The permissions on drafts are:

- User = read, write, execute
- Group = execute
- Other = none

.project\_x.txt

## Describe the permissions string

[Add content here.]

## Change file permissions

```
researcher2@b5f2f57d027d:~/projects$ ls -1

total 20

drwx--x--- 2 researcher2 research_team 4096 Aug 31 19:04 drafts
-rw-rw-rw- 1 researcher2 research_team 46 Aug 31 19:04 project_k.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r-- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r-- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
researcher2@b5f2f57d027d:~/projects$ chmod o-w project_k.txt
researcher2@b5f2f57d027d:~/projects$ ls -1

total 20
drwx--x--- 2 researcher2 research_team 4096 Aug 31 19:04 drafts
-rw-rw-r--- 1 researcher2 research_team 4096 Aug 31 19:04 project_k.txt
-rw-rw-r---- 1 researcher2 research_team 46 Aug 31 19:04 project_k.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
```

## Change file permissions on a hidden file

```
researcher2@b5f2f57d027d:~/projects$ ls -la
drwxr-xr-x 3 researcher2 research team 4096 Aug 31 19:04 .
drwxr-xr-x 3 researcher2 research_team 4096 Aug 31 19:52 ...
-rw--w--- 1 researcher2 research team 46 Aug 31 19:04 .project x.txt
drwx--x--- 2 researcher2 research team 4096 Aug 31 19:04 drafts
                                       46 Aug 31 19:04 project k.txt
rw-rw-r-- 1 researcher2 research team
-rw-r---- 1 researcher2 research team
                                        46 Aug 31 19:04 project m.txt
-rw-rw-r-- 1 researcher2 research team 46 Aug 31 19:04 project r.txt
rw-rw-r-- 1 researcher2 research team 46 Aug 31 19:04 project t.txt
researcher2@b5f2f57d027d:~/projects$ chmod g-w .project x.txt
researcher2@b5f2f57d027d:~/projects$ ls -la
total 32
drwxr-xr-x 3 researcher2 research team 4096 Aug 31 19:04 .
drwxr-xr-x 3 researcher2 research team 4096 Aug 31 19:52 ...
-rw----- 1 researcher2 research team
                                        46 Aug 31 19:04 .project x.txt
drwx--x--- 2 researcher2 research team 4096 Aug 31 19:04 drafts
rw-rw-r-- 1 researcher2 research team
                                        46 Aug 31 19:04 project k.txt
-rw-r---- 1 researcher2 research team
                                        46 Aug 31 19:04 project m.txt
                                        46 Aug 31 19:04 project r.txt
-rw-rw-r-- 1 researcher2 research team
-rw-rw-r-- 1 researcher2 research team
                                        46 Aug 31 19:04 project t.txt
researcher2@b5f2f57d027d:~/projects$
```

## Change directory permissions

```
researcher2@b5f2f57d027d:~/projects$ chmod o-x /home/researcher2/projects/drafts
researcher2@b5f2f57d027d:~/projects$ ls -la

total 32
drwxr-xr-x 3 researcher2 research_team 4096 Aug 31 19:04 .
drwxr-xr-x 3 researcher2 research_team 4096 Aug 31 19:52 .
-rw------ 1 researcher2 research_team 46 Aug 31 19:04 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Aug 31 19:04 drafts
-rw-rw-r-- 1 researcher2 research_team 46 Aug 31 19:04 project_k.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_m.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_r.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
-rw-rw-r--- 1 researcher2 research_team 46 Aug 31 19:04 project_t.txt
-researcher2@b5f2f57d027d:~/projects$
```