

## File permissions in Linux

### Project description

As a security professional, my job is to ensure that users on the research team have the correct authorization to access files and directories in the projects directory. Some of the permissions did not match the proper authorization levels, so I inspected the current permissions and updated them.

### Check file and directory details

Command used:

ls -la

Output:

total 32

```
drwxr-xr-x 3 researcher2 research_team 4096 Dec 2 15:27 .
drwxr-xr-x 3 researcher2 research_team 4096 Dec 2 15:27 ..
-rw----- 1 researcher2 research_team 46 Dec 2 15:27 .project_x.txt
drwxr-x--- 2 researcher2 research_team 4096 Dec 2 15:27 drafts
-rw-rw-r-- 1 researcher2 research_team 46 Dec 2 15:27 project_k.txt
-rw-r----- 1 researcher2 research_team 46 Dec 2 15:27 project_m.txt
-rw-rw-r-- 1 researcher2 research_team 46 Dec 2 15:27 project_r.txt
-rw-rw-r-- 1 researcher2 research_team 46 Dec 2 15:27 project_t.txt
```

Describe the permissions string

Example: -rw-rw-r--

- regular file

rw- user can read/write

rw- group can read/write

r-- others can read only

Change file permissions

chmod o-w project\_k.txt

Change hidden file permissions

chmod u-w .project\_x.txt

chmod g+r .project\_x.txt

Change directory permissions

chmod g-x drafts

Summary

I used Linux commands to examine and securely update file permissions in the projects directory.