# File permissions in Linux

## Project description

The basis of this project is to use Linux commands to manage file permissions in the computer. I’m ensuring users in the organization are authorized with the correct permissions and implementing the Principle of Least privilege to reduce security risk. I’m removing any users with unauthorized access.

## Check file and directory details

ls -la

## Describe the permissions string

The 10-character string describes the file type, rwx (read-write-execute) permissions for each owners (ugo). U stands for user (owner of the file), g stands for group (larger group owner is part of), and o stands for all other users in system. Finally, the d stands for directory where you are setting permissions for each of the owners.

## Change file permissions

chmod u-w, g-w, o-w project\_k.txt

chmod u-w project\_m.txt

chmod u-w, g-w project\_r.txt

chmod u-w, g-w project\_t.txt

## Change file permissions on a hidden file

chmod u-w, g-w, g+w .project\_x.txt

## Change directory permissions

chmod g-w drafts

## Summary

The purpose of this assignment was to alter permissions of files and directories. First, I checked the permissions of files in the project directory including hidden files. Then, I altered permissions of files and directories. For the last one, I changed directory permissions to only allow the user, researcher2, to access the drafts directory.