# File permissions in Linux

## Project description

Directory and Files permission audit

## Check file and directory details

Command Used: ls -la  
Command Displays current directory files and folders including their permission and hidden files/dirs

## Describe the permissions string

10 char permission example string:

frw-r--r–  
This string means:

f - file  
r - read permission

W - write permission

X - execute permisson

Char 2-4 that’s user permission

Char 5-7 that’s group permission

Char 8-10 that’s other’s premisson

## Change file permissions

Used command: chmod o-rw project\_k.txt

Description: chmod -command that modifies permissions  
O-rw: o means other’s, ‘-’ symbol means remove permissions and ‘rw’ mean’s read and write permissions.

## Change file permissions on a hidden file

Used command: chmod u=r, g=r .project\_x.txt   
Description: chmod -command that modifies permissions, ‘u=r’ sets permissions for user to read, ‘g=r’ sets permission for group to read

## Change directory permissions

Used command: chmod u=rwx /home/researcher2/projects/drafts  
Description: chmod -command that modifies permissions, ‘u=rwx’ means that we give to users all permissions and only to users.

## Summary

In this exercise we tried permission modifying in OS Linux using the ‘chmod’ command with different parameters. Also using ‘ls -la’ command we can identify files and folder with their permissions and hidden files or folders.