File permissions in Linux

Project description

This project contains few multiple tasks:

* Check permissions for files in a directory
* Check for incorrect file permissions and change permissions as needed
* Remove unauthorized access to a directory

Check file and directory details

We must navigate to directory “projects”. Using pwd command find Path to this directory - /home/researcher2/. In directory “projects” you can see 1 hidden file, 3 directories (2 hidden), and 4 .txt files which we must check for permissions (Screenshot 1).

Describe the permissions string

Permissions string looks like drwxrwxrwx, where is:drwxrwxrwx:

* The 1st character indicates the file type. The d indicates it’s a directory. When this character is a hyphen (-), it's a regular file.
* The 2nd-4th characters indicate the read (r), write (w), and execute (x) permissions for the user. When one of these characters is a hyphen (-) instead, it indicates that this permission is not granted to the user.
* The 5th-7th characters indicate the read (r), write (w), and execute (x) permissions for the group. When one of these characters is a hyphen (-) instead, it indicates that this permission is not granted for the group.
* The 8th-10th characters indicate the read (r), write (w), and execute (x) permissions for the owner type of other. This owner type consists of all other users on the system apart from the user and the group. When one of these characters is a hyphen (-) instead, that indicates that this permission is not granted for other (Screenshot1)

Change file permissions

Change file permissions for other in file project\_k.txt using command chmod for only read permissions - chmod o-w project\_k.txt. (Screenshot 2)

Change file permissions on a hidden file

The file .project\_x.txt is a hidden file that has been archived and should not be written to by anyone. (The user and group should still be able to read this file.). Using chmod command allow permission only for read for user and group (Screenshot 3)

Change directory permissions

The same way changing directory permission for drafts, using chmod command for remove execute permissions for the group (Screenshot 4)

Summary

Changing permission for:

* Project\_k.txt.
* .project\_x.txt (hidden file)
* Directory drafts