

File permissions in Linux

Project description

The research team at my organization needs to update the file permissions for specific files and directories within the `project's` directory. The licenses currently need to reflect the level of authorization that should be given. Checking and updating these permissions[In this project I will be using Linux to grant or deny permissions on a directory, files, and subdirectories

Check file and directory details

After navigating to the correct directory using the command `cd /home/researcher2/projects` my next step was to find the permissions of that directory

Describe the permissions string

After using the command `ls-l` These are the permissions that were already established. This document displays the file structure of the `/home/researcher2/projects` directory and the permissions of the files and subdirectory it contains. Using the command `ls-la` I was able to uncover hidden files

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

- `project_k.txt`
 - User = read, write,
 - Group = read, write
 - Other = read, write
- `project_m.txt`
 - User = read, write
 - Group = read
 - Other = none
- `project_r.txt`
 - User= read, write
 - Group = read, write
 - Other = read
- `project_t.txt`
 - User = read, write
 - Group = read, write

- Other = read
- `.project_x.txt`
 - User = read, write
 - Group = write
 - Other = 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

Change file permissions

My next task was to change the permissions of `project_k.txt` so that the others wouldn't have write permissions for said file. I used the command `chmod o-w project_k.txt` to remove the other write permissions for `project_k.txt` file.

Change file permissions on a hidden file

- `.project_x.txt` should be only a read file for the user and group to change this I will use the command `chmod u-w,g-w,g+r .project_x.txt`

Change directory permissions

Only the `researcher2` user should be allowed to access the `drafts` directory and its contents. (This means that only `researcher2` should have execute privileges.) in order to change the permissions I had to confirm that I was in the `projects` directory using the command `cd /home/researcher2/project`. After that, I had to use the command `chmod g-x drafts` in order to deny permissions to the group class.

Summary

This project in all was to show my ability to not only research permissions using Linux but also make changes in a directory using LINUX