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File permissions in Linux

Project description

View, list, identify, and change user permissions in linux using bash and command chmod.

Check file and directory details

Ls -la

A screenshot of a computer

Description automatically generated

Describe the permissions string

For example:

-rw--w---- 1 researcher2 research\_team   46 Feb 26 13:56 .project\_x.txt

Current user only has access to read and write permissions, while the group has write permissions. Other has no permissions.

Change file permissions

In order to change permissions for others to all files in working directory, use chmod command. Currently, the only files with write permissions are project\_k.txt for other.

Command to change file permissions:

Chmod o-w project\_k.txt

A screen shot of a computer program

Description automatically generated

Change file permissions on a hidden file

To list hidden file permissions, command: ls -la

To change the file permissions is same as before:

Chmod u-r .project\_x.txt

A screenshot of a computer

Description automatically generated

Change directory permissions

In order to change directory permissions so that only the user has access to the drafts file, one will use the same change permission command chmod, and remove any rwx for group or other.

Chmod g-x drafts.txtA screenshot of a computer screen

Description automatically generated

Summary

In summary, the ability to quickly view all users and permissions through bash commands is easily done and changed using linux commands. Both public and private directories can be viewed, with the permission granted.