File permissions in Linux

Project description

I am given a scenario and must assign proper permissions to users, groups, and others in a linux system.

Check file and directory details

```
ls -la
project_k.txt:-rw-rw-rw-
project_m.txt:-rw-r------
project_r.txt:-rw-rw-r--
project_t.txt:-rw-rw-r--
.project_x.txt:-rw--w-----
drafts:drwx--x---
```

Describe the permissions string

First character represents a file or directory if it's a file it's a dash (-) if it's a directory it's a d.

Second through fourth characters represent user permissions read (r), write (w), executable (x), or none (-).

Fifth through seventh characters represent group permissions with the same options.

Eighth through tenth characters represent others group permissions which is anyone not a user or a group and they have the same options as well.

Change file permissions

No write permissions for others - chmod o-w [file]

This command will remove write permissions for others on the file specified

Change file permissions on a hidden file

Read only for archived file - chmod u=r, g=r, o=- [file]

This command will give user and group only read permissions and assign no permissions to other

Change directory permissions

Only allow user access to directory - chmod u=rwx, g=-, o=- [directory]This command will give user full permission to the directory and give no permissions to group or other

Summary

In this scenario I had to check, remove, and add permissions to users, groups, and others for files and directories.