

Files in Linux

Project description

In this scenario, the analyst team tasked me to execute organizational tasks. The operation system is Linux, and I am using command-line-interface(CLI) in Linux Bash Shell to execute these tasks via Linux Terminal. The task are as followed:

1. Find and search files
2. Check file and directory details
3. Add and remove permissions
4. Locate hidden files, and adjust permissions.

Check file and directory details

From this scenario, I was tasked to view files and permissions under the projects directory. I located the files and hidden files within the directory.

```
researcher2@b705c02e9818:~$ cd projects
researcher2@b705c02e9818:~/projects$ ls -la
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Sep  2 14:02 .
drwxr-xr-x 3 researcher2 research_team 4096 Sep  2 14:52 ..
-rw--w---- 1 researcher2 research_team  46 Sep  2 14:02 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Sep  2 14:02 drafts
-rw-rw-rw- 1 researcher2 research_team  46 Sep  2 14:02 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Sep  2 14:02 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_t.txt
researcher2@b705c02e9818:~/projects$
```

Describe the permissions string

The permission string used would be `/home/researcher2/projects`. Using “`cd`” to move from drafts to projects directory. Then using the CLI in the bash shell “`ls -la`” to view files and hidden files within.

Change file permissions

I was later tasked with reviewing permissions of different files. While reviewing permissions, I was asked to remove `write` permissions from `others`.

```
researcher2@b705c02e9818:~/projects$ chmod o-w project_k.txt
researcher2@b705c02e9818:~/projects$ ls -la
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Sep  2 14:02 .
drwxr-xr-x 3 researcher2 research_team 4096 Sep  2 14:52 ..
-rw--w---- 1 researcher2 research_team  46 Sep  2 14:02 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Sep  2 14:02 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Sep  2 14:02 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_t.txt
```

Change file permissions on a hidden file

The analyst team would like me to locate the **hidden files**, and specifically only allow read permissions for the **user** only. All others should have no allocation of permissions.

```
researcher2@b705c02e9818:~/projects$ chmod u-w .project_x.txt
researcher2@b705c02e9818:~/projects$ chmod g-w .project_x.txt
researcher2@b705c02e9818:~/projects$ ls -la
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Sep  2 14:02 .
drwxr-xr-x 3 researcher2 research_team 4096 Sep  2 14:52 ..
-r----- 1 researcher2 research_team  46 Sep  2 14:02 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Sep  2 14:02 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_k.txt
-rw----- 1 researcher2 research_team  46 Sep  2 14:02 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Sep  2 14:02 project_t.txt
researcher2@b705c02e9818:~/projects$ █
```