Project description

**Check the permissions set for files and subdirectories in the project’s directory. Make sure you display all permissions, including hidden files. Change permissions according to the company protocol.**

Check file and directory details

A screenshot of a computer

AI-generated content may be incorrect.

Describe the permissions string

Above I used the Linux command  (ls -la) to show all the permissions for the project’s directory. The permission string consists of a 10-character string. The 10-character string is used to describe the permissions associated with each user or team with access to that file. The first character (D) is the directory. The following 3 spaces are User permissions, the next 3 are for Group permissions and the last 3 are for others. An R (Read), W(Write), or X(Execute) will be placed in the corresponding location if permission has been granted. If permission has not been granted, then a -(Dash) will take its place.

Change file permissions on a hidden file

**The organization does not allow others to have written access to any files. Based on the permissions established above, identify which file needs to have its permissions modified. Use a Linux command to modify these permissions**.

(Hidden File)

A computer screen shot of a program

AI-generated content may be incorrect.

A screen shot of a computer

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(Remainder of files)

Change directory permissions

**The files and directories in the project’s directory belong to the researcher2 user. Only researcher2 should be allowed to access the drafts directory and its contents. Use a Linux command to modify the permissions accordingly.**

A computer screen shot of a program

AI-generated content may be incorrect.

Here's the breakdown:

Change ownership:

* Code -    sudo chown researcher2:researcher2 /home/researcher2/projects/drafts
* sudo: This ensures you have the necessary privileges to change ownership.
* chown: This command changes the ownership of a file or directory.
* researcher2:researcher2: This specifies the new owner and group for the drafts folder. We are making both the owner and group researcher2.
* /home/researcher2/projects/drafts: The actual path to the drafts folder.

Set permissions:

* Code- sudo chmod 700 /home/researcher2/projects/drafts
* sudo: Again, this grants administrative privileges.
* chmod: This command changes the file or directory permissions.
* 700: This octal notation defines the permissions.
* 7: Represents full permissions (read, write, and execute) for the owner (researcher2 in this case).
* 0: Represents no permissions for the group.
* 0: Represents no permissions for others.
* /home/researcher2/projects/drafts: The path to the drafts folder.

Summary

I was tasked to do 3 things -

1. Display all permissions in the project directory including hidden files.
2. Change the permissions to meet company protocol. Including hidden files
3. Change ownership and permissions of the drafts folder so only the owner can access its contents.