

File permissions in Linux

Project description

[Practical experience with types of access granted to the three types of owners in linux
Practical experience granting access to specific resources in a system . apt packet manager
,installation ,uninstallation and list installed applications.generate input and output with the
echo,expr,and clear command.

Finding files with linux commands cd,pwd,ls to navigate directories,display working directories
and list contents of a directory.Display content of files with the cat and head commands]

Check file and directory details

[There are five files in the project directory and one subdirectory inside the projects directory
named draft .

```
Project_k.txt = d r w - r w - r w -
```

```
Project_m.txt = d r w - r - - - - -
```

```
Project_r.txt = d r w - r w - r - -
```

```
.project_x.txt = - r w - - w - - - -
```

Sub directory

```
Drafts = d r w x - - x - - - ]
```

Describe the permissions string

[Permission strings are types of access granted to a file or directory.Permission strings are
represented with the ten character strings "drwxrwxrwx". The d indicates the file is a directory ,
the r indicates read all files in the directory,the w indicates write permissions and allow
modifications on a file. These permissions are applied to the types of owners to grant or deny
access to USER,GROUP,OTHER]

Change file permissions

[A user might longer be working on a project and the organization requires changes to some
permissions in order to protect system files, to change file permissions for others not to have
write permissions, I applied the `chmod o - w project_k.txt` , this command denies others the
write permission.i also used the `ls - la` command to display changes to permissions to all files
and directories

```
Project_k.txt = d r w - r w - r - - ]
```

[The organization has archived project_x.txt and requests that no one should have the write permission in this project. To change file permission the command `chmod u - w, g - w, g + r` was applied and the user and group were denied access to write permission and to the group was given the read permission `. project_x.txt`. The `.` indicates that project_x.txt is a hidden file

```
.project_x.txt = - r - - r - - - - - ]
```

Change directory permissions

[To grant the researcher2 access to the drafts, I applied the command `chmod g-x, drafts` to give the researcher 2 access to the draft directory and its content and removed the execute permission from the group owner.

```
Researcher2
```

```
Draft = d r w x - - - - - ]
```

Summary

[I used the options to modify the behaviour of the command, adding options to ls command displays permissions to all files and directory including hidden files, `ls -la`, the chmod command changes permissions on files and directories.]