

LINUX CLASS 5

LETS UNDERSTAND THE FILE:

`-rw-r--r-- 1 root root 45 Dec 15 13:43 azure`

TYPE OF THE FILE (-) :

- : REGULAR FILE

d : DIRECTORY FILE

c : CHARACTER FILE

b : BLOCKED FILE

PERMISSIONS OF A FILE: (rw-r--r--)

r : read (4)

w : write (2)

x : execute (1)

- : nothing (0)

rw- : user permissions = $4+2+0 = 6$

r-- : group permissions = $4+0+0 = 4$

r-- : others permissions = $4+0+0 = 4$

644

EX:

user : rwx = $4+2+1 = 7$

group : r-x = $4+0+1 = 5$

others : -w- = $0+2+0 = 2$

ACL (Access Control List) :

file = 1

folder = 2

FILE OWNERS:

root = user

root = group

NO OF CHARACTERS IN A FILE: (45)

FILE CREATION/MODIFICATION DETAILS (Dec 15 13:43)

FILE NAME (azure)

USER COMMANDS:

Note: whenever we create any user, group will be created automatically.

if we delete the user, group will be deleted automatically

whenever we create any user, directory will gets created in /home directory

- TO SEE THE LIST OF USERS : `cat /etc/passwd`
- TO ADD A USER : `useradd username`

`upendra:x:1002:1002:~/home/upendra:/bin/bash`

HERE:

`upendra` (username)

`x` : it stores the password of the user

`1002` : UID (User ID)

`1002` : GID (Group ID)

`/home/upendra` : This is users path

`/bin/bash` : this is our shell path

- TO DELETE A USER : `userdel username`
- TO GET ID's OF A USER : `id username`
- TO SWITCH TO ANOTHER USER : `su - username`
- TO SET A PASSWORD TO USER : `passwd username`
- TO DELETE A USER ALONG WITH FOLDER : `userdel -r username` (r=recursive)
- TO ADD A USER TO A GROUP: `usermod -a -G group user`

GROUP COMMANDS:

- TO SEE LIST OF GROUPS : `cat /etc/group`
- TO CREATE A GROUP : `groupadd groupname`
- TO DELETE A GROUP : `groupdel groupname`
- TO REMOVE A USER FROM A GROUP : `gpasswd -d username groupname`
- TO SEE A USER IS ADDED TO GROUP OR NOT : `id username`
- TO ADD A USER TO MULTIPLE GROUPS AT THE SAME TIME : `usermod -a -G group1,group2,group3 username`

HOW TO CHANGE PERMISSIONS OF A FILE:

- TO CHANGE PERMISSIONS OF A FILE : `chmod 777 filename`
- TO CHANGE PERMISSIONS OF A MULTIPLE FILES : `chmod 777 file1 file2 file3`
- TO CHANGE PERMISSIONS OF ALL FILES : `chmod 777 *`
- TO CHANGE PERMISSIONS OF A FOLDER : `chmod 777 foldername`
- TO CHANGE PERMISSIONS OF A FOLDER ALONG WITH FILES INSIDE THE FOLDER :
`chmod 777 foldername -R`
- TO CHANGE PERMISSIONS OF A FILES WHICH ARE PRESENT INSIDE A FOLDER: `chmod 777 foldername/*`

HOW TO CHANGE OWNERS OF A FILE:

- TO CHANGE OWNERS OF A FILE : `chown user:groupname filename`
- TO CHANGE OWNERS OF A MULTIPLE FILES : `chown user:groupname file1 file2 file3`
- TO CHANGE OWNERS OF ALL FILES : `chown user:groupname *`
- TO CHANGE OWNERS OF A FOLDER : `chown user:groupname foldername`
- TO CHANGE OWNERS OF A FOLDER ALONG WITH FILES INSIDE THE FOLDER : `chown user:groupname foldername -R`
- TO CHANGE OWNERS OF A FILES WHICH ARE PRESENT INSIDE A FOLDER: `chown user:groupname foldername/*`