

chown & chmod

When you write in pash : "ls -la" you will see this line :

drwx----- 44 abdelrahman-tawfik abdelrahman-tawfik 4096 Jun 23 19:20 .config

directory user owner Group owner File or directory name

9 bits

Read Write Execute

owner Group other

we can change the user and group owner , and we can set permission for this file or folder

first : to change the owner and group owner :

chown

"sudo chown new_user:group_name filename"

change owner

new owner name

المتغير الكلام دا

Ex : "sudo chown root:root .local"

it will be : drwx----- 44 root root 4096 Jun 23 19:20 .local

and we can set the permissions for the folder or file using chmod

sudo chmod bit_1 bit_2 bit_2 file_name

owner group other

كل bit هو 3 bits او Octal

Chmod 013 أو Chmod 754

for example chmod 750

for owner group other

الاولى bit هو 3 bits او Octal

كل bit هو 3 bits او Octal

بعد كل bit 3 bits او Octal

owner

group

other

111

Read Write Execute

101

000

anyone can't read, write, execute

owner Can read, write, execute

any member in my group Can read, execute but can't write

So the sequence will be RWX R-X----

وهناك 9 البتات

So

drwx----- 44 abdelrahman-tawfik abdelrahman-tawfik 4096 Jun 23 19:20 .config

owner can read, write, and execute but group and other can't do that

So we can change that using :

"sudo chmod 531 .config"

101 011 001

owner can R,X group can W,X other can only X "execute"

So the file will be :

dr-x-wx--x 44 abdelrahman-tawfik abdelrahman-tawfik 4096 Jun 23 19:20 .config

and if we write "sudo chown root:root .config" , it will be :

dr-x-wx--x 44 root root 4096 Jun 23 19:20 .config