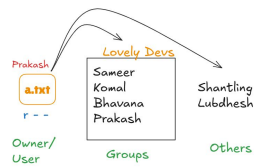


FILE PERMISSIONS

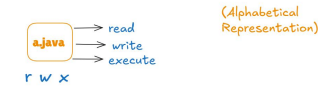
- >> gives control to the user, that who can access their files & folders.
- >> give access to resources/data.



- can give the access as diff. users
- add the users into a group, & give the permissions to the group

1. TYPES OF PERMISSIONS
2. WHO HAS THESE PERMISSIONS
3. HOW TO CHECK THE PERMISSION
4. HOW TO CHANGE PERMISSIONS

1. TYPES OF PERMISSIONS



1. read

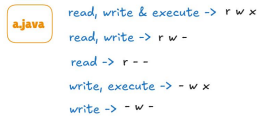
- viewing the content of the file.
- denoted by 'r'.

2. write

- edit/modify the content of the file.
- denoted by 'w'.

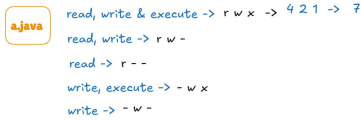
3. execute

- running the files as a program.
- denoted by 'x'.

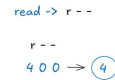
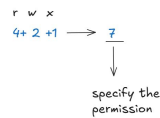


(Numerical Representation)

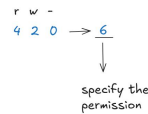
1. Read -> r -> 4
2. Write -> w -> 2
3. Execute -> x -> 1



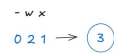
read, write & execute -> r w x -> 4 2 1 -> 7



read, write -> r w -



write, execute -> - w x



5 -> 4 0 1 -> r - x

2. WHO HAS THESE PERMISSIONS

- classifies the types of users for permissions/access to a particular file.
- Users have 3 categories:

i. Owner/User:

- The user who has created the file.
- Has the ownership the file.
- denoted by 'u'.

ii. Group:

- All the users with common file permissions.
- denoted by 'g'.

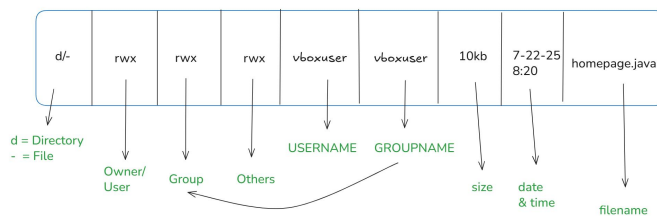
iii. Others:

- All the users who does not belong to the 'OWNER' or 'GROUP'.
- denoted by 'o'.

-> Any file/directory will have all the permissions available for all kind of user category.

3. HOW TO CHECK PERMISSIONS:

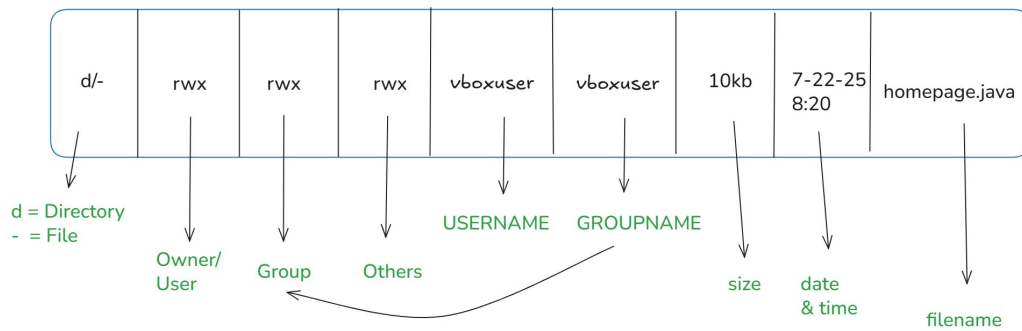
>> ls -l (long listing format)



-- Default permission for a file: r w - | r w - | r - -

3. HOW TO CHECK PERMISSIONS:

>> ls -l (long listing format)



-- Default permission for a file: `rw-rw-r--`

4. HOW TO CHANGE PERMISSIONS:

Add
(+)

Remove
(-)

>> chmod permission filename

demo.txt
Default permission of a file: `rw-rw-r--`

-> To give/add execute permission to owner/user: `chmod u+x demo.txt`

`rwXrw-r--`

- i. Type of user
- ii. Action
- ii. Type of permission

-> To take away/remove execute permission from owner/user: `chmod u-x demo.txt`

`rwXrw-r--`

-> To give write & execute permission to others: `chmod o+wx demo.txt`

`rwXrw-rwx`

-> To give write permission to group: `chmod g+x demo.txt`

`rwXrwxrwx`

-> To change it back to default permission of the file: `chmod u-x,g-x,o-wx demo.txt`

`rw-rw-r--`