# Topics

- Add a user

- add a group

- add user to a group

- assign permission

- assign ownership

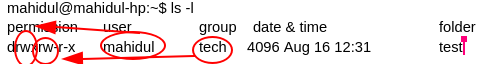
# Folder permission level

mahidul@mahidul-hp:~$ mkdir test

mahidul@mahidul-hp:~$ ls -l

permission user group date & time folder

drwxrw-r-x mahidul tech 4096 Aug 16 12:31 test



# Note

d = its a directory

rwx = mahidul user will get read write and execute permission

rwx = mahidul group will get read write and execute permission

r-x = rest of the users will get read and execute permission only

mahidul@mahidul-hp:~$ chmod 740 test

mahidul@mahidul-hp:~$ ls -l

drwxr----- 2 mahidul mahidul 4096 Aug 16 12:31 test

7 = assign read write and execute for user mahidul

4 = assign only for mahidul group

0 = no permission

# Values

read = 4

Write = 2

execute = 1

7 = rwx

6 = rw

5 = rx

3 = wx

0 = no permission

# Ownership

mahidul@mahidul-hp:~$ sudo adduser adib

mahidul@mahidul-hp:~$ sudo addgroup it

mahidul@mahidul-hp:~$ sudo chown adib.it test

mahidul@mahidul-hp:~$ ls -l

drwxr----- 2 adib it 4096 Aug 16 12:31 test

# Testing

mahidul@mahidul-hp:~$ cd test

bash: cd: test: Permission denied

# Add a user to an existing group

mahidul@mahidul-hp:~$ sudo groupadd students

or

mahidul@mahidul-hp:~$ sudo addgroup students

Add user to a single group

mahidul@mahidul-hp:~$ sudo usermod -a -G students mahidul

Add user to multiple group

mahidul@mahidul-hp:~$ sudo usermod -a -G students,it,sales mahidul

# Testing

mahidul@mahidul-hp:~$ cd test

mahidul@mahidul-hp:~/test$ ls

a.txt

# Note

1. After adding a user to a group please logout and login again to get the access properly.

Sticky bit permission