File Permissions - 1

- File permissions (file modes) specify who can access, change or execute a file on a Linux System.
- It ensures that only authorized users and processes can access files and directories.
- Each file or directory has an owner and a group. By default, the owner is the user who
 creates the file and the group is the primary group of that user.
- The ownership of a file or a directory can be changed only by root using the chown and chgrp commands.

For each file the permissions are assigned to three different categories of users:

- The file owner.
- **2.** The group owner.
- Others (anyone else or the whole world).

File Permissions - 2

There are three file permissions types that apply to each category:

- The read permission (r)
- The write permission (w)
- The execute permission (x)

To view the files permission run: Is -I or stat.

```
stud@ubuntu-20:~$ ls -l /etc/passwd
-rw-r--r-- 1 root root 2869 aug 2 16:05 /etc/passwd
stud@ubuntu-20:~$
```