

## Permissions

- Using 'ls -l' to see permissions information on files in a directory
- You can see what permissions the owner, group and the world have regarding their ability to read, write or execute a file.
  - o (ex. (-rwxr----))
    - Read, write and execute

## Setting File Permissions

- You can set Permissions on a file or folder using chmod <permission><filename>
- Permission Type

|                         |           |
|-------------------------|-----------|
| o Permission Type       | o Symbol  |
| o 0. None               | o ' - '   |
| o 1. Execute            | o ' -x '  |
| o 2. Write              | o ' -w- ' |
| o 3. Write and Execute  | o ' -wx ' |
| o 4. Read               | o ' r- '  |
| o 5. Read and Execute   | o ' r-x ' |
| o 6. Read and Write     | o ' rw- ' |
| o 7. Read/Write/Execute | o ' rwx ' |

## User Commands

- Chmod = Change Mode(Modify)
- SU = Switch user
- Chuser = Change user
- Chown = Change owner
- Nano/vi = Modify

## Setting SUID and SGID

- Super user ID(SUID): run an application as the owner
- Set group ID(SGID): Run an application as the group assigned to the file
- Stickybit: Prevents deletion of files except by the owner/root