# 24.26Apr.Linux File Types

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- 1. File Permission
  - 1. Type of Files
  - 2. chown
- 2. User Management
  - a. Create
  - b. Delete
  - c. List
- 3. Manage TAR File

## **Normal File Types**

- Ordinary File( .txt, .java, .py ,etc)
- d Folder/Directory

# **Special File Types**

- c Character Device File
- s Socket File
- p Named Pipeline File
- b Block Device File

# **Link File Types(Shortcut)**

Hard Link File

Soft Link File

\$ touch file1.txt

\$ In -s file1.txt /home/kali/file1.txt

\$ Is -I |grep "^I"

#### 1. Character File

➤ Its available in /dev folder

\$ Is -la /dev |grep ^c

OR

\$ cd /dev

\$ ls -la

\$ Is -la | grep ^c

- ➤ Allow user/application to communicate directly with the hardware device.
- > It's not allow programs to read/write single character at a time.

### 2. Socket File

- Server : Python, C, Java (netcat = nc)
- Client
- That provide IPC, but they can transfer data & information between processes running on different Environments(different machines on a network)
- 3. Named Pipeline
  - > Starting with p Character
  - > Can be created using mkfifo command line utility
  - Allow IPC(Inter Process Communication) by Connecting the output of 1 process to the input of another.
  - > Ex: Create Named Pipeline/ Linux Pipeline File

\$ mkfifo pipe1

\$ ls -al | grep ^p

> \$ mkfifo or mkfilo or mknod

