



UNIX Course Module 3

Hands-on: 1

UNIX/Linux Training

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Everything is a File in UNIX

Files: The first character of flags indicates the type of file. '-' represents that it is an ordinary file

```
intellipaath@localhost:~
File Edit View Search Terminal Help
[intellipaath@localhost ~]$ vi test.txt
[intellipaath@localhost ~]$ ls -l
total 12
-rw-rw-r--. 1 intellipaath intellipaath 32 Nov 14 08:34 '\ '
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Desktop
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Documents
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Downloads
drwxrwxr-x. 2 intellipaath intellipaath 38 Nov 14 06:12 hello
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Music
drwxr-xr-x. 2 intellipaath intellipaath 4096 Nov 13 23:17 Pictures
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Public
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Templates
-rw-rw-r--. 1 intellipaath intellipaath 12 Nov 15 02:34 test.txt
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Videos
```

Directories: 'd' represents that it is a directory, which is a special file.

```
intellipaath@localhost:~
File Edit View Search Terminal Help
[intellipaath@localhost ~]$ mkdir Hello
[intellipaath@localhost ~]$ ls -l
total 12
-rw-rw-r--. 1 intellipaath intellipaath 32 Nov 14 08:34 '\ '
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Desktop
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Documents
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Downloads
drwxrwxr-x. 2 intellipaath intellipaath 38 Nov 14 06:12 hello
drwxrwxr-x. 2 intellipaath intellipaath 6 Nov 15 03:30 Hello
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Music
drwxr-xr-x. 2 intellipaath intellipaath 4096 Nov 15 02:38 Pictures
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Public
drwxr-xr-x. 2 intellipaath intellipaath 6 Nov 11 02:36 Templates
-rw-rw-r--. 1 intellipaath intellipaath 12 Nov 15 02:34 test.txt
```

Executable: Executables are files too. As you can see command 'ls' is indicated with '-' which means that too is a file.

```

intellipa@localhost:/bin
File Edit View Search Terminal Help
[intellipa@localhost bin]$ ls -l *ls*
-rwxr-xr-x. 1 root root 85480 May 14 2019 alsaloop
-rwxr-xr-x. 1 root root 78072 May 14 2019 alsamixer
-rwxr-xr-x. 1 root root 13368 May 14 2019 alsatplg
-rwxr-xr-x. 1 root root 17904 May 14 2019 alsaucm
-rwxr-xr-x. 1 root root 123 May 14 2019 alsanmute
-rwxr-xr-x. 1 root root 171304 May 17 09:43 brltty-lsinc
-rwxr-xr-x. 1 root root 13408 May 13 2019 enchant-lsmod
-rwxr-xr-x. 1 root root 13416 May 13 2019 enchant-lsmod-2
-rwxr-xr-x. 1 root root 41832 May 11 2019 false
-rwxr-xr-x. 1 root root 254816 Jun 4 08:10 grub2-menulst2cfg
-rwxr-xr-x. 1 root root 13392 May 14 2019 gupnp-dlna-ls-profiles-2.0
-rwxr-xr-x. 1 root root 13600 May 11 2019 iddiag-socket-details
-rwxr-xr-x. 1 root root 166448 May 11 2019 ls

```

Processes: Say we are running the 'vim' editor in background. It will give us an id, which is our process id.

```
$ vim &
```

Now go inside the /proc directory, you will see the process id for 'vim' editor

```
$ cd /proc
```

Run the following command inside /proc and you will see the process is also listed as a directory which is nothing but a special file.

```
$ ls -l
```

```
intellipaat@localhost:/proc
File Edit View Search Terminal Help
[intellipaat@localhost proc]$ ls -l
total 0
dr-xr-xr-x. 9 root      root      0 Nov 14 22:18 1
dr-xr-xr-x. 9 root      root      0 Nov 14 22:18 10
dr-xr-xr-x. 9 root      root      0 Nov 15 00:05 10286
dr-xr-xr-x. 9 gdm       gdm       0 Nov 14 22:19 1065
dr-xr-xr-x. 9 gdm       gdm       0 Nov 14 22:19 1075
dr-xr-xr-x. 9 root      root      0 Nov 14 22:18 11
dr-xr-xr-x. 9 root      root      0 Nov 14 22:18 12
dr-xr-xr-x. 9 root      root      0 Nov 15 03:41 12737
dr-xr-xr-x. 9 root      root      0 Nov 14 22:18 13
dr-xr-xr-x. 9 root      root      0 Nov 15 04:30 13267
dr-xr-xr-x. 9 gdm       gdm       0 Nov 14 22:19 1327
dr-xr-xr-x. 9 intellipaat intellipaat 0 Nov 15 04:30 13289
dr-xr-xr-x. 9 root      root      0 Nov 15 04:36 13381
```