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# Day 2 : Basic Linux commands 👍

Hi, I'm **Fayssal,** and this is my first day of **#90DaysOfDevops** initiated by **Shubham Londhe**. Today, I'll be discussing Basic linux commands .

## 1. Basic linux commands

`ls` **commands :**

1. `ls` - This command lists the files and directories in the current working directory : *

```
fayssal@fayssal-VirtualBox:~$ ls
Desktop     Downloads   Pictures    snap        Videos
Documents   Music       Public      Templates
fayssal@fayssal-VirtualBox:~$
```

2. `ls -a` - This command lists all files and directories, **including hidden files:**

```
fayssal@fayssal-VirtualBox:~$ ls -a
.                   Downloads       .sudo_as_admin_successful
..                  .gnupg          Templates
.bash_history       .local          .vboxclient-clipboard.pid
.bash_logout        Music           .vboxclient-draganddrop.pid
.bashrc             Pictures        .vboxclient-seamless.pid
.cache              .profile        .vboxclient-vmsvga-session-tty2.pid
.config             Public          Videos
```

3. `ls -l` - This command lists **files and directories** in long format, which includes details like permissions, ownersl⟨...⟩tion date/time:

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```
fayssal@fayssal-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Desktop
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Documents
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Downloads
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Music
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Pictures
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Public
drwx------ 3 fayssal fayssal 4096 21:14 16    ملايس  snap
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Templates
drwxr-xr-x 2 fayssal fayssal 4096 21:15 16    ملايس  Videos
```

```
    - content permissions
    - number of links to the content
    - owner of the content
    - group owner of the content
    - size of the content in bytes
    - last modified date / time of the content
    - file or directory name
```

4. `ls -lh` - This command lists files and directories in long format with human-readable file sizes:

```
fayssal@fayssal-VirtualBox:~$ ls -lh
total 40K
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Desktop
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Documents
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Downloads
-rw-rw-r-- 1 fayssal fayssal    0 15:11 21    ملايس  fayssal.sh
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Music
drwxrwxr-x 2 fayssal fayssal 4.0K 15:08 21    ملايس  New
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Pictures
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Public
drwx------ 3 fayssal fayssal 4.0K 21:14 16    ملايس  snap
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Templates
drwxr-xr-x 2 fayssal fayssal 4.0K 21:15 16    ملايس  Videos
```

5. `ls -t` : This command lists files and directories sorted by modification time, with the newest files first:

```
fayssal@fayssal-VirtualBox:~$ mkdir New
fayssal@fayssal-VirtualBox:~$ ls -t
New        Documents  Music      Public     Videos
Desktop    Downloads  Pictures   Templates  snap
```

6. `ls -i` : Lists files and directories with their **inode** numbers.

```
fayssal@fayssal-VirtualBox:~$ ls -i
399499 Desktop      399504 Music      399502 Public      399506 Videos
399503 Documents    395936 New        398312 snap
399500 Downloads    399505 Pictures   399501 Templates
```

7. `ls -R` - This command lists files and directories recursively, i.e., it also lists the contents of subdirectories:

```
fayssal@fayssal-VirtualBox:~$ ls -R
.:
Desktop      Downloads    Music    Pictures    snap         Videos
Documents    fayssal.sh   New      Public      Templates

./Desktop:

./Documents:

./Downloads:

./Music:

./New:

./Pictures:

./Public:

./snap:
snapd-desktop-integration

./snap/snapd-desktop-integration:
49   common   current

./snap/snapd-desktop-integration/49:
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
```

8. `ls *.sh` : list all the files having .sh extension.

```
fayssal@fayssal-VirtualBox:~$ touch fayssal.sh
fayssal@fayssal-VirtualBox:~$ ls *.sh
fayssal.sh
fayssal@fayssal-VirtualBox:~$
```

## 2. Directory commands

**Current Working**

`pwd` : This command displays the current working directory.

```
fayssal@fayssal-VirtualBox:~$ pwd
/home/fayssal
fayssal@fayssal-VirtualBox:~$ █
```

**Change Directory Commands:**

`cd ~` : Change to the home directory

```
fayssal@fayssal-VirtualBox:~$ cd Desktop
fayssal@fayssal-VirtualBox:~/Desktop$ cd ~
fayssal@fayssal-VirtualBox:~$ █
```

`cd -` : Change to the previous directory

```
fayssal@fayssal-VirtualBox:~$ cd -
/home/fayssal/Desktop
fayssal@fayssal-VirtualBox:~/Desktop$ cd -
/home/fayssal
fayssal@fayssal-VirtualBox:~$ █
```

# 3. Make Directory Commands:

`mkdir [directory1] [directory2] [directory3] ...` : Create multiple directories

```
fayssal@fayssal-VirtualBox:~$ mkdir D1 D2 D3
fayssal@fayssal-VirtualBox:~$ ls
D1  D3        Documents  fayssal.sh  New       Public  Templates
D2  Desktop   Downloads  Music       Pictures  snap    Videos
fayssal@fayssal-VirtualBox:~$ ls -t
```

`mkdir -m [permission] [directory]` : Create a directory with a specific permission

```
fayssal@fayssal-VirtualBox:~$ mkdir -m 755 my_directory2
fayssal@fayssal-VirtualBox:~$ ls -lt
total 60
drwxr-xr-x 2 fayssal fayssal 4096 18:11 21  مايس my_directory2
```

`mkdir -p [parent_directory]/[child_directory]` : Create a directory with multiple parent directories

```
fayssal@fayssal-VirtualBox:~$ ls
D1          Documents    my_directory    Pictures    Videos
D2          Downloads    my_directory2   Public
D3          fayssal.sh   New             snap
Desktop  Music           parent_dir      Templates
fayssal@fayssal-VirtualBox:~$ ls parent_dir
child_dir
fayssal@fayssal-VirtualBox:~$ █
```

## 4. Move and Rename Commands:

`mv [old_name] [new_name]` : Rename a file or directory

```
fayssal@fayssal-VirtualBox:~$ mv fayssal.sh fayssal
fayssal@fayssal-VirtualBox:~$ ls
D1   Desktop     fayssal         my_directory2  Pictures  Templates
D2   Documents   Music           New            Public    Videos
```

`mv [source] [destination]` : Move a file or directory to a new location

```
fayssal@fayssal-VirtualBox:~$ mv fayssal ./parent_dir
fayssal@fayssal-VirtualBox:~$ ls parent_dir
child_dir   fayssal
fayssal@fayssal-VirtualBox:~$
```

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_Fayssal 👍

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