



Basics Linux command

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What is Linux?

Linux is a free and open-source operating system (OS). An operating system is software that directly manages the hardware and resources of a system, such as the CPU, memory, and storage. The operating system (OS) sits between applications and hardware, connecting all of your software to the physical resources that do the work.

What is Linux command to: –

Check your present working directory–

To check the present working directory we should use the **pwd** command which is shown below

```
ubuntu@ip-172-31-14-5:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-14-5:~$
```

List all the files or directories including hidden files–

To view all of the system's directories and files, we use the **ls** command. **ls** displays a list of all current directories and files. We use **ls -l** to long list files and **ls -a** to display hidden files in the system. The **ls -la** command should be used to list all files and directories, including hidden files.

```
ubuntu@ip-172-31-14-5:~$ ls
dira  dirb  dirc  dird  file1  file2  file3  file4
ubuntu@ip-172-31-14-5:~$ ls -l
total 16
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dira
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dirb
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dirc
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dird
-rw-rw-r-- 1 ubuntu ubuntu 0 Mar 2 05:56 file1
-rw-rw-r-- 1 ubuntu ubuntu 0 Mar 2 05:56 file2
-rw-rw-r-- 1 ubuntu ubuntu 0 Mar 2 05:56 file3
-rw-rw-r-- 1 ubuntu ubuntu 0 Mar 2 05:56 file4
ubuntu@ip-172-31-14-5:~$ ls -la
.  ..  .bash_logout  .bashrc  .cache  .profile  .ssh  dira  dirb  dirc  dird  file1  file2  file3  file4
ubuntu@ip-172-31-14-5:~$ ls -la
total 44
drwxr-xr-x 8 ubuntu ubuntu 4096 Mar 2 05:56 .
drwxr-xr-x 3 root  root  4096 Mar 2 05:39 ..
-rw-r--r-- 1 ubuntu ubuntu 220 Jan 6 2022 .bash_logout
-rw-r--r-- 1 ubuntu ubuntu 3771 Jan 6 2022 .bashrc
drwx----- 2 ubuntu ubuntu 4096 Mar 2 05:41 .cache
-rw-r--r-- 1 ubuntu ubuntu 807 Jan 6 2022 .profile
drwx----- 2 ubuntu ubuntu 4096 Mar 2 05:39 .ssh
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dira
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dirb
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dirc
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 2 05:55 dird
-rw-rw-r-- 1 ubuntu ubuntu 0 Mar 2 05:56 file1
```

Create a nested directory A/B/C/D/E-

command to show the nested directory is `mkdir -p A/B/C/D`. Here `-p` is for making parent directories as needed.

```
ubuntu@ip-172-31-14-5:~$ mkdir -p A/B/C/D
ubuntu@ip-172-31-14-5:~$ tree
.
├── A
│   └── B
│       └── C
│           └── D
├── dira
├── dirb
├── dirc
├── dird
├── file1
├── file2
├── file3
└── file4

8 directories, 4 files
ubuntu@ip-172-31-14-5:~$
```

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