







Basic Linux Commands





Day 2 Task: Basics Linux command



Kunal Maurya · Feb 23, 2023 · ☐ 4 min read

Listing commands

Here are some examples of different 1s commands in Linux with explanations:

• ls - This command lists the files and directories in the current working directory:

```
$ ls
Desktop Documents Downloads Music Pictures Public Templates
```

• ls -a - This command lists all files and directories, including hidden files:

```
$ ls -a
. .. .bash_history .bashrc .config Desktop Documents Downlo
```

ls -1 - This command lists files and directories in long format, which includes details like permissions, ownership, size, and modification date/time:

The output is displayed in multiple columns, with each column separated by whitespace. The first column shows the file type and permissions, followed by the number of hard links, the owner name, the group name, the size of the file in bytes, the modification time, and finally the file name.

For example, the first line shows -rw-r--r-- in the first column, which indicates that the file file1.txt has read and write permissions for the owner, and read-only permissions for the group and others. The number 1 in the second column indicates that there is one hard link to this file. The owner and group names are both user . The size of the file is 11 bytes. The modification time is Feb 23 14:02, and the file name is file1.txt.

ls -lh - This command lists files and directories in long format with humanreadable file sizes:

```
$ ls -lh
total 68K
drwxr-xr-x 2 user user 4.0K Feb 10 15:10 Desktop
drwxr-xr-x 3 user user 4.0K Feb 10 15:08 Documents
drwxr-xr-x 2 user user 4.0K Feb 10 15:10 Downloads
drwxr-xr-x 2 user user 4.0K Feb 10 15:10 Music
drwxr-xr-x 2 user user 4.0K Feb 10 15:10 Pictures
drwxr-xr-x 2 user user 4.0K Feb 10 15:10 Public
drwxr-xr-x 2 user user 4.0K Feb 10 15:10 Templates
drwxr-xr-x 2 user user 4.0K Feb 10 15:10 Videos
```

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

```
$ ls -t
Downloads Documents Pictures Public Videos Music Templates I
```

• ls -r - This command lists files and directories in reverse order:

```
$ ls -r
Videos Templates Public Pictures Music Downloads Documents I
```

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

```
$ ls -R
.:
Desktop Documents Downloads Music Pictures Public Templates

./Desktop:
file1.txt file2.txt

./Documents:
file3.txt file4.txt

./Downloads:
file5.txt file6.txt

./Music:
file
```

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

```
$ ls -i
3957718 file1.txt
3957720 file2.txt
3957722 file3.txt
3957719 dir1
3957721 dir2
```

ls -s: Lists files and directories sorted by size, with the largest files first.

```
$ ls -S
total 162M
-rw-r--r-- 1 user user 120M Feb 15 10:45 large_file.iso
-rw-r--r-- 1 user user 20M Feb 15 10:47 medium_file.mp4
-rw-r--r-- 1 user user 2M Feb 15 10:48 small_file.txt
drwxr-xr-x 2 user user 4.0K Feb 15 10:49 scripts
drwxr-xr-x 3 user user 4.0K Feb 15 10:50 documents
```

• ls *.sh: list all the files having .sh extension.

```
$ ls *.sh
script1.sh script2.sh script3.sh
```

Directory commands

Some commonly used Linux directory commands with examples:

Current Working

pwd: This command displays the current working directory.

```
$ pwd
/home/user/Documents
```

Change Directory Commands:

cd [directory]: Change to a specific directory

```
$ cd /usr/local/bin
```

cd ~: Change to the home directory

```
$ cd ~
```

cd -: Change to the previous directory

```
$ cd -
```

cd . . : Change to the parent directory

```
$ cd ..
```

cd [relative_directory_path] : Change to the directory relative to the current directory

```
$ cd ../my_directory
```

Make Directory Commands:

mkdir [directory]: Create a single directory

```
[root@localhost demo]# mkdir my_directory
[root@localhost demo]# ls
my_directory
```

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

```
[root@localhost demo]# mkdir D1 D2 D3
[root@localhost demo]# ls
D1 D2 D3
```

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

```
$ mkdir -m 755 my_directory
```

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

```
mkdir -p my_parent_directory/my_child_directory
```

mkdir -m [permission] -o [owner] -g [group] [directory]: Create a directory
 with a specific owner and group

```
$ mkdir -m 755 -o user -g group my_directory
```

This will create a directory named $my_directory$ with the permission 755, owned by the user user and the group group.

Move and Rename Commands:

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

```
mv file1.txt file2.txt
```



Thank you for reading! Hope you find this article helpful.

~Kunal

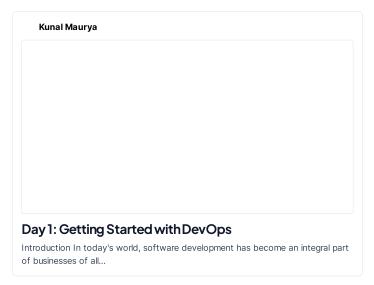


Subscribe to my newsletter

Read articles from directly inside your inbox. Subscribe to the newsletter, and don't miss out.



MORE ARTICLES





Powered by <u>Hashnode</u> - Home for tech writers and readers