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## Linux Commands

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# File handling commands

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- `cp` : copy file or directories.

`$ cp [OPTION]... SOURCE DEST`

- `mv` : Rename files.

`$ mv [OPTION]... SOURCE DEST`

- `rm` : Remove files or directories.

`$ rm [OPTION]... FILE...`

# File handling commands

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- vim : vi improved, a programmers text editor.

\$ vim [OPTION] [FILE]...

- head : output the first part of files.

\$ head [OPTION]... [FILE]...

- tail : output the last part of files.

\$ tail [OPTION]... [FILE]...

# File handling commands

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- file : determine file type.
- find : search for files in a directory hierarchy.
- locate : find files by name.

`$ locate [OPTION]... PATTERN...`

# Text processing

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- cat : concatenate files and print on the standard output.  
\$ cat [OPTION]... [FILE]...
- echo : display a line of text.  
\$ echo [OPTION] [FILE]...
- grep : lines matching a pattern.  
\$ grep [OPTION] PATTERN [FILE]..
- wc : number of newlines, words, and bytes in files.  
\$ wc [OPTION]... [FILE]...

# Directory Related Commands

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- `cd` : change directories.

`$ cd [DIRECTORY]`

- `mkdir` : make directories.

`$ mkdir [OPTION]... DIRECTORY`

- `rmdir` : remove directory.

`$ rmdir [OPTION]... DIRECTORY`

# Directory Related Commands

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- pwd : print working directory.  
\$ pwd
- ls : list directory content.  
\$ ls [OPTION]... [FILE]...



# Process related command

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- ps : gives the status of the running process with unique id called pid.  
\$ ps [OPTIONS]
- top : The top program provides a dynamic real-time view of a running system.
- kill : to kill the background process.  
\$kill [OPTIONS] <pid>

# Disk related command

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- df : report file system disk space usage.

```
$ df [OPTION]... [FILE]...
```

- du : estimate file space usage.

```
$ du [OPTION]... [FILE]...
```

# System related command

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- Runtime level management

exit : Terminate the shell.

halt : stop the system.

init : Process control initialization.

logout : log the user off the system.

poweroff : Brings the system down.

reboot : reboot the system.

runlevel : List the current and previous runlevel.

# System related command

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- passwd : Set the user password.
- su : single user login.
- who : display the user logged in.
- whoami : prints effective user id.
- shutdown : Halt, power-off or reboot the machine.
- bc : basic calculator.

# System related command

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- System Time

cal : calendar.

date : print or set the system date and time.

- uname : print system information.

\$ uname [OPTION]...

# Network related command

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- ping : send ICMP ECHO\_REQUEST to network hosts.  
\$ ping < remote-host-name/ip >
- ifconfig : configure a network interface.
- hostname : show or set the system's host name.
- arp : manipulate the system ARP cache.

# Network related command

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- ssh : a program for logging into a remote machine and for executing commands on a remote machine.

```
$ ssh <remote system name/ip>
```

- scp : copies files between hosts on a network.

```
$ scp [options] [[user@]host1:]file1 ... [[user@]host2:]file2
```

# Gnu tool chain commands

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- gcc : GNU project C and C++ compiler.
- gdb : The GNU Debugger.
- splint : A tool for statically checking C programs.
- valgrind : A suite of tools for debugging and profiling programs

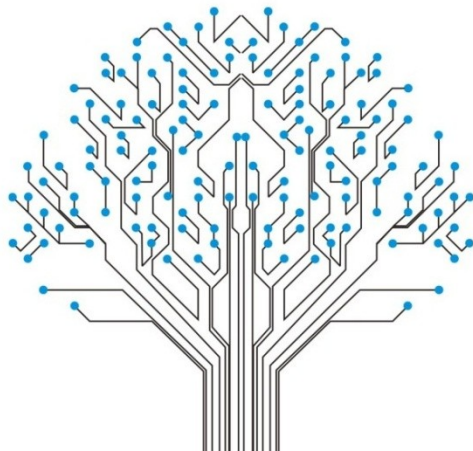


# Sources to learn commands

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- `man` : Shows all information about the command.  
`$man < command >`
- `help` : Shows the available options for that command.  
`$< command > --help`

# Thank you



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