

Some commonly used Linux commands and description

1. Command to create File and Directory

- For File : `cat > file_name`
- For Directory: `mkdir directory_name` (can specify path)

2. Command to display the contents of Files and Directory

- For File : `cat file_name`
- For Directory: `ls directory_name`
- For Directory: `ls -l directory_name` (display contents with details)

3. Command to change Directory

- `cd directory_name` => Change directory to mentioned directory
- `cd /` => Change directory to root directory
- `cd ..` => Change directory to parent directory or come out of directory.

4. Command to get the name of current working Directory

- `pwd` : display the name of current working directory

5. Command to copy and rename the File and Directory

- `cp source_file destination_file` => copy a file
- `mv source_file destination_file` => Rename the file
- `mv source_file directory_name` => Copy file to mentioned directory

6. Command to delete File and Directory

- For File `rm file_name`
- For Directory `rmdir directory_name`

7. Command to get details of users

- `who` => displays list of current logged in users.
- `who am i` => displays details of current logged in user.
- `whoami` => displays the name of current logged in user.
- `users` => displays only names of current logged in users.
- `tty` => displays current terminal information.
- `hostname` => displays hostname of machine.

8. Command to related to user logins

- `passwd user_name` : Change the password
- `useradd user_name` : Add new user in the Linux
- `groupadd group_name` : Add new user group
- `su user_name` : switch to new user.

9. Command related to processes and command

- `ps` => To show current running processes
- `kill` => To kill a process
- `history` => To show all commands executed previously

10. Command to display help related to command

- `man command_name` => Get help about command
- For Directory `rmdir directory_name`

Vi editor commands

11. Command for file operations

- `vi file_name` => opens file if file exists otherwise create and open file with specified name.
- Press `i` to go into insert mode when file is open
- `Esc:w` => To save file(ESC stands for Escape key)
- `Esc:q` => To close file and go to command prompt.
- `Esc:wq` => Save file and exit.
- `Esc:yy` => copy (This command work in escape mode.)
- `Esc:p` => paste (This command work in escape mode.)
- `Esc:dd` => delete current line
- `Esc:setnu` => for showing line numbers in file

Commands for Compilation and Execution of C and C++

12. Command to compilation and execution

- `gcc try.c` => Compiles `try.c` file and create `a.out` file after compilation
- `gcc -C try.c` => Compiles `try.c` file and create `a.out` file after compilation
- `gcc -C try.c` => Compiles `try.c` file and create `a.out` file after compilation
- `gcc -std=C99 try.c` => Compiles `try.c` file with C99 version and create `a.out` file after compilation
- `./a.out` => to run the compiled program
- `gcc -o try try.c` => Compiles `try.c` file and create output file as `try`
- `./output_file_name` => Runs the program(output_file_name must be same as specified after `-o` in above command)
- `g++ try.cpp` => Compiles `.cpp` file and create `a.out` file after compilation
- `g++ -o try try.cpp` => Compiles `try.cpp` file and create output file as `try`
- `./output_file_name` => Runs the program(output_file_name must be same as specified after `-o` in above command)