

Linux Basic Command

- \$date --it prints current date and time
- \$cal --it prints current month
- ex. \$cal -y --it prints current year
- \$cal 02 2020 --prints given month
- \$cal -j -- it counts day of current year
- \$man cal -- check for more detail
- \$expr --int arithmetic
- ex. \$expr 48 + 5
- \$expr 48 - 8
- \$expr 48 / 2
- \$expr 48 % 6
- \$factor 45 --printd factor of number
- \$file filepath --Checks a file's type
- \$top --prints all running processes
- \$shutdown --turns off or restarts the system
- \$ps --creates a snapshot of all running processes
- \$man -- manual/help
- ex. \$man date --prints detail of date command
- \$man man
 1. User commands
 2. System calls
 3. Library functions
 4. File formats
 5. Linux documentation
 6. Admin commands
 7. Linux kernel functions
- \$man 3 printf
- \$clear -- it clear the screen [shortcut : ctrl+l]

Linux FileSystem Commands

- \$pwd --print present working directory
- syntax: \$pwd
- \$cd -- change directory
- syntax: \$cd dirpath
- ex. \$cd .. --go backwad directry
- \$cd . --Consider current directry
- \$cd dirpath --goes to given path
- \$ls -- list directory contents
- syntax: ls dirpath
- ex. \$ls -l --
- \$ls -a --
- ...
- \$ls / --shows root directory content
- \$man ls --For more info
- \$mkdir -- make directory/Folder
- syntax: mkdir dirpath
- \$rmdir -- remove empty directory
- syntax: \$rmdir dirpath

File commands

- cat
 - \$cat > filepath -- create new file
 - \$cat filepath -- display file contents
- stat
 - \$stat path -- display status/info of file/dir
- rm (remove)
 - \$rm filepath -- delete given file
 - \$rm -r dirpath -- delete dir with all contents
- mv (move)
 - \$mv filepath destdirpath -- move given file into given dest directory
 - \$mv dirpath destdirpath -- move given dir into given dest directory
 - \$mv oldname newname -- rename given file
- cp (copy)
 - \$cp filename newfilename -- copy file with new name/path.
 - \$cp filepath destdirpath -- copy file into given dest dir with same name.

- `$cp -r dirpath destdirpath --` copy file into given dest dir with same name.
- `touch`
 - `touch demo.txt --create empty file`

VIM modes

- Command mode
 - Default mode
 - Press "Esc" to go in command mode.
- Edit mode (Insert)
 - Press "i" to go in Insert mode.
 - Edit the file.

VIM Commands

- Basic
 - `:q -- Quit`
 - `:w -- Write file`
 - `:wq -- Write and Quit`
- Copy commands
 - `yy -- copy current line`
 - `4yy -- copy 4 lines from current line`
 - `:3,5y -- copy line 3 to 5`
 - `y$ -- copy line after cursor`
 - `y^ -- copy line before cursor`
 - `yw -- copy current word`
 - `2yw -- copy two words from cursor`
- cut commands
 - `dd -- cut current line`
 - `3dd -- cut 3 lines from current line`
 - `:5,7d -- cut line 5 to 7`
 - `d$ -- cut line after cursor`
 - `d^ -- cut line before cursor`
 - `dw -- cut current word`
 - `2dw -- cut two words from cursor`
- paste
 - `p -- paste copied contents`
- undo
 - `u -- undo`
- redo
 - `press ctrl+R -- redo`
- Format document
 - `gg=G -- format/indent document`

create file using VIM Editor

- `$vim demo01.c --to create file`
- `$ls`
- `$gcc demo01.c -o demo01.out --to compile file`
- `$/demo01.out -- to run the code`

vim run command file (.vimrc)

- To create give command
 - `$vim ~/.vimrc`
 - `set number`
 - `set autoindent`
 - `set tabstop=4`
 - `set shiftwidth=4`
 - `syntax on`
 - `set nowrap`
 - `set autowriteall`