
THE LINUX COMMANDS HANDBOOK



- **Short keys in Linux.**
- `alt+f1` = to go on application setup
- `alt+f10` = maximize window size
- `alt+f5` = to reduce window size
- `clt+shift+ +=` to increase the font size.
- `clt ---` = to decrease the font size.
- `clt+shift+t` = new tab or sub-terminal
- `clt+page up` = shift from one tab
- `clt+page down` = shift from one tab
- `#alt+f4` = {to close all terminals}
- `#alt+f2` = {for run bar}
- `#clt+c` = { to interrupt the command }
- `#clear` or `#clt+L` { to remove all commands}
- `#exist` or `#clt+D` {to logout from terminal}

- #shift+page up = {to scroll up the page}
- #shift+page down = {to scroll down the page }

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(((((((((os monitoring commands)))))))

```
# cat      /etc/system-release
# cat      /etc/os-release
#cat       /etc/redhat-release
```

(((((((((RAM check commands)))))))

```
# free
# free -k    {memory in kb}
# free -m    {memory in mb}
# free -h    {memory in human readable form}
```

(((((((((hard-disk size)))))))

- #fdisk -l {partition disk size}
- #du -sh {disk utilization sum in human readable form}
- #df -h {this shows mounting points of disk}
- #df -TH {with type tells}
- #lsblk

(((some important commands))

- #who {Tell who is login}
- #id username {To check id}
- # w -f {From }
- # w -h { To remove header }
- #whoami {Tells current login user}
- #uptime {Machine uptime}
- #pinky {provides same info}
- # man touch { Man commands tells command options in brief}
- #useradd --help {same as explain above but in shortest manner}

- #touch --help
- #which {which command tells the location of a command where it is stored}

(((((stat command)))))

- This command tells full status of "file,,,,,"directory"
- #stat /abc { file status }
- #stat /myfolder {folder status}

(((((file command))))))))

- This command tells us type of content i.e., it is a "filex or folder"
- # file abc { it will tell us that abc is an file }.
- #mkdir /krishantechblog
- #file /krishanblog { it will tell us that krishantechblog is an folder}.
- #touch /krishantechblog
- #file /krishantechblog

Types of "command prompt"

- [root@localhost~]#
 - #=previllised mode,,,it has 100% rights ,,,,# shows that "root is log in ie,,, super user"
 - root= username
 - ~= present working directory.
- o localhost=machine name..
- if i am 'log-in ' with any 'normal user '
 - o [krishantech@localhost~]\$
 - \$=unprevillaised mode ,,\$ shows normal user ,,,it has 10% rights ,which can be increased by root later as needed.
 - o krishantech= username

- <<<<<mkdir ,,,cd,,,ls,,, command>>>>>>>>
- #mkdir krishan tech blog {multiple folders create }
- #mkdir war /ret /world {multiple folders create}
- #mkdir /world/yum
- #mkdir /world/yum/ddd
- #mkdir /krishantech { Create a directory on / }
- #mkdir krishanblog
- #ls /
- #ls

```
#useradd ram
#passwd ram
123
123
#ls /home
#userdel -rf ram {to delete account and data both}
-r= remove
-f = forcefully

#ls /home

#userdel --help {to see options}
```

• **Ls command some examples of ls command.**

- #ls
- #ls /
- #ls -l [for hidden files]
- #ls -a {for all hidden/unhidden }
- #ls -i {for inode number check of files only}
- #ls -ld {for inode number check of folder only}
- #ls -l {to check permissions of files}
- #ls -ld {to check permission of directory}
- #ll {to check permission in long format}
- #ls -lrt {list -long format with respect to time}
- #ls -lrth {{list -long format with respect to time in human redable form}.
- #lsof (list of open files)

• **symbols in linux.**

- 1) ; {semi-colon,, it is used to run more than 'one command at a time' }.
- 2) >> {concatnation,,,,,,output of two files in one file}..

Examples of ; (semi-colon)

```
#date
#date ; cal ; who {three commands will fire at a same time}..

#lscpu ; date ; cal

#who ; date
```

head & tail

head by defaults shows 10 lines from top of the file ,,,
tail by defaults shows 10 lines from bottom of the file ,,,,

- #head <options> <filename>
- #tail <options> <filename>

```
#head /etc/passwd
#head /etc/group
#tail /etc/shadow
#tail /etc/group
```

```
#head -n 10 /etc/group
#head -n 17 /etc/passwd
#tail -n 15 /etc/passwd
```

```
#head -n 35 /etc/passwd | cat -n | tail -n 5
```

```
#head -n 35 /etc/passwd | cat -n | tail -n 5 >
/krishantechblog
```

```
#history
#history | tail -n 26
```

```
#history | cat -n | head -n 200 | tail -n 15 >>
/krishantechblog
```

```
#tail -f /var/log/secure {-f means flow}
```

• Grep,,,Egrep,,,Fgrep

grep= it grep only "one pattern" from "one file"..

Drawback of 'grep' covered by 'egrep'

Egrep=it grep "multiple pattern" from "one file".
egrep = enhance grep

Fgrep= it grep "any pattern" from "multile file".

note::::: "Egrep" perfome both tasks of 'grep' and 'fgrep'....

```
#grep <options> <pattern> <file>
```

- -i = ignore k-sensitive
- -o = only a particular word
- -n = those lines in which word present
- -v = reverse match
- -w = for exact word
- -A2 = it shows after two lines.

- there are 4 - types of targets in rhel-7..
 - targets are managed by "systemd"
 - ""pid"" of target is "1"
-
- graphical.target = full multiuser mode with "CLI &GUI" mode..
this is equal to "init 5" in rhel-6.
 - b)multi-user.target = full multiuser mode with "CLI" mode.

this is equal to "init 3" in rhel -6.

- c) rescue.target = same definition as in rhel -6 {rescue mode}
- d) emergency.target = same definition as in rhel -6 {emergency mode}

```
#init 6    or    #systemctl reboot
#init 0    or    #systemctl poweroff
```

How to manage "targets"

```
#systemctl isolate multi-user.target {temporary in cli mode}
#systemctl isolate graphical.target {temproar in gui mode}
```

Here `"isolate"` is used for "tempoary" purpose..

```
#systemctl set-default multi-user.target {permanent in cli mode
..ie after reboot
machine will be in cli mode..}
```

```
#systemctl set-default graphical.target {permanent in gui mode
...ie...after reboot
machine will be in gui mode...}
```

NOTE:: #cat /etc/systemd/system/default.target (To check)

[illegible]

```
# /etc/passwd      (this file contains user related information)

fileds= {username:passwd:uid:gid:comment:home:shell}
this file contains " (7) fileds"
```

```
#/etc/shadow (this file contains passwd of user )
```

```
fields={username:passwd_encrpted_form:passwdpolicy}
this file contains "(9)" fields.
(1) filled contain "username".
(2) filled contain "password in encrypted form".
rest of ((7)) filled contains "passwd policy"...
```

```
#/etc/groups      (this file contains groups related information)
```


