40 Linux Commands

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1. sudo

```
rujuta@Inspiron-5558:~$ sudo apt update
[sudo] password for rujuta:
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 https://dl.google.com/linux/chrome/deb stable InRelease [1,811 B]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:5 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,094 B]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [549 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [400 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [791 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/main i386 Packages [226 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [117 kB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [41.4 kB]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/main DEP-11 48x48 Icons [13.8 kB]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/main DEP-11 64x64 Icons [22.7 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [7,540 B]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/restricted i386 Packages [25.5 kB]
```

2. pwd

```
rujuta@Inspiron-5558:~$ pwd
/home/rujuta
```

3. cd

```
rujuta@Inspiron-5558:~$ cd dtl
```

4. Is

```
rujuta@Inspiron-5558:~/dtl$ ls -a
... f1.txt f2.txt
rujuta@Inspiron-5558:~/dtl$ ls -l
total 8
-rw-rw-r-- 1 rujuta rujuta 63 Dec 30 10:28 f1.txt
-rw-rw-r-- 1 rujuta rujuta 32 Dec 30 10:29 f2.txt
```

5. cat

```
rujuta@Inspiron-5558:~/dtl$ cat > f3.txt
Hello!
This file has been created using cat > command.
:)
rujuta@Inspiron-5558:~/dtl$ ls
f1.txt f2.txt f3.txt
```

```
rujuta@Inspiron-5558:~/dtl$ cat -T f1.txt Alphabets:
Vowels : a, e, i, o, u
Consonants: b, c, d, f, g, h, j, k, l, m, n,
^I p, q, r, s, t, v, w, x, y, z
```

```
rujuta@Inspiron-5558:~/dtl$ tac f2.txt
10
9
8
7
6
5
4
3
2
1
0
Numbers:
```

6. cp

7. mv

```
rujuta@Inspiron-5558:~/dtl$ mv f2.txt f1_1.txt
```

8. mkdir

```
rujuta@Inspiron-5558:~$ mkdir dtl
rujuta@Inspiron-5558:~$ cd dtl
rujuta@Inspiron-5558:~/dtl$ pwd
/home/rujuta/dtl
```

9. rmdir

```
rujuta@Inspiron-5558:~$ mkdir Directory
rujuta@Inspiron-5558:~$ rmdir Directory
```

10.

11. touch

```
rujuta@Inspiron-5558:~/dtl$ touch f2.txt
rujuta@Inspiron-5558:~/dtl$ vi f2.txt
rujuta@Inspiron-5558:~/dtl$ cat f2.txt
This is a text file.
It has been created using touch command.
rujuta@Inspiron-5558:~/dtl$
```

12. locate

```
rujuta@Inspiron-5558:~/dtl$ plocate q1
/usr/lib/firmware/cxgb4/aq1202_fw.cld
/var/lib/swcatalog/icons/ubuntu-jammy-universe/48x48/imagemagick-6.q16_display-im6.q16.png
/var/lib/swcatalog/icons/ubuntu-jammy-universe/48x48/imagemagick-6.q16hdri_display-im6.q16hdri.png
/var/lib/swcatalog/icons/ubuntu-jammy-universe/64x64/imagemagick-6.q16_display-im6.q16.png
/var/lib/swcatalog/icons/ubuntu-jammy-universe/64x64/imagemagick-6.q16hdri_display-im6.q16hdri.png
rujuta@Inspiron-5558:~/dtl$
```

13. find

```
rujuta@Inspiron-5558:~$ find dtl -name file1
dtl
dtl/f3.txt
dtl/f1_1.txt
dtl/f4.txt
dtl/f1.txt
dtl/f1.txt
dtl/f2.txt
```

14. grep

```
rujuta@Inspiron-5558:~/dtl$ grep Hello f3.txt
Hello!
rujuta@Inspiron-5558:~/dtl$
```

15. df

```
rujuta@Inspiron-5558:~$ df
Filesystem
                            Used Available Use% Mounted on
              1K-blocks
tmpfs
                  804868
                            1920
                                    802948
                                             1% /run
/dev/sda2
              479079112 14649000 440020720
                                             4% /
tmpfs
                4024336
                               0
                                   4024336
                                             0% /dev/shm
                               4
tmpfs
                   5120
                                      5116
                                            1% /run/lock
/dev/sda1
                  98304
                            30887
                                     67417
                                            32% /boot/efi
                 804864
                                    804724
                                             1% /run/user/1000
tmpfs
                             140
rujuta@Inspiron-5558:~$ df -h
               Size Used Avail Use% Mounted on
Filesystem
tmpfs
               787M 1.9M
                           785M
                                  1% /run
/dev/sda2
               457G
                      14G
                           420G
                                  4% /
                           3.9G
                                  0% /dev/shm
tmpfs
               3.9G
                        0
tmpfs
               5.0M
                           5.0M
                     4.0K
                                  1% /run/lock
/dev/sda1
                96M
                      31M
                            66M 32% /boot/efi
tmpfs
               786M
                     140K
                           786M
                                  1% /run/user/1000
rujuta@Inspiron-5558:~S
```

16. du

```
rujuta@Inspiron-5558:~$ du -m dtl

dtl
rujuta@Inspiron-5558:~$ |
```

17. head

18. tail

```
rujuta@Inspiron-5558:~/dtl$ tail f4.txt

1
2
3
4
5
6
7
8
9
10
```

19. diff

```
rujuta@Inspiron-5558:~/dtl$ diff f1.txt f4.txt
4a5,16
> Numbers:
> 0
> 1
> 2
> 3
> 4
> 5
> 6
> 7
> 8
> 9
> 10
rujuta@Inspiron-5558:~/dtl$
```

20. tar

```
rujuta@Inspiron-5558:~/dtl$ tar cvf file.tar *.txt
f1_1.txt
f1.txt
f2.txt
f3.txt
f4.txt
rujuta@Inspiron-5558:~/dtl$
```

21. chmod

```
rujuta@Inspiron-5558:~/dtl$ ls -l
total 32
-rw-rw-r-- 1 rujuta rujuta 113 Jan 8 16:20 f1 1.txt
-rw-rw-r-- 1 rujuta rujuta 113 Jan 8 16:20 f1.txt
                               62 Jan 8 16:31 f2.txt
-rw-rw-r-- 1 rujuta rujuta
-rw-rw-r-- 1 rujuta rujuta 58 Jan 1 11:09 f3.txt
-rw-rw-r-- 1 rujuta rujuta 145 Jan 1 11:14 f4.txt
-rw-rw-r-- 1 rujuta rujuta 10240 Jan 8 16:43
rujuta@Inspiron-5558:~/dtl$ chmod u=rwx,g=rx,o=r f1.txt
rujuta@Inspiron-5558:~/dtl$ ls -l
total 32
-rw-rw-r-- 1 rujuta rujuta 113 Jan 8 16:20 f1_1.txt
-rwxr-xr-- 1 rujuta rujuta 113 Jan 8 16:20 f1.txt
-rw-rw-r-- 1 rujuta rujuta 62 Jan 8 16:31 f2.txt
-rw-rw-r-- 1 rujuta rujuta 58 Jan 1 11:09 f3.txt
-rw-rw-r-- 1 rujuta rujuta 145 Jan 1 11:14 f4.txt
-rw-rw-r-- 1 rujuta rujuta 10240 Jan 8 16:43 file.tar
rujuta@Inspiron-5558:~/dtl$ chmod 754 f2.txt
rujuta@Inspiron-5558:~/dtl$ ls -l
total 32
-rw-rw-r-- 1 rujuta rujuta 113 Jan 8 16:20 f1 1.txt
-rwxr-xr-- 1 rujuta rujuta 113 Jan 8 16:20 f1.txt
-rwxr-xr-- 1 rujuta rujuta 62 Jan 8 16:31 f2.txt
-rw-rw-r-- 1 rujuta rujuta 58 Jan 1 11:09 f3.txt
-rw-rw-r-- 1 rujuta rujuta 145 Jan 1 11:14 f4.txt
-rw-rw-r-- 1 rujuta rujuta 10240 Jan 8 16:43 file.tar
rujuta@Inspiron-5558:~/dtl$
```

22. chown

```
rujuta@Inspiron-5558:~/dtl$ sudo chown root f1.txt
[sudo] password for rujuta:
rujuta@Inspiron-5558:~/dtl$ ls -l

total 32
-rw-rw-r-- 1 rujuta rujuta 113 Jan 8 16:20 f1_1.txt
-rwxr-xr-- 1 root rujuta 113 Jan 8 16:20 f1_txt
-rwxr-xr-- 1 rujuta rujuta 62 Jan 8 16:31 f2.txt
-rw-rw-r-- 1 rujuta rujuta 58 Jan 1 11:09 f3.txt
-rw-rw-r-- 1 rujuta rujuta 145 Jan 1 11:14 f4.txt
-rw-rw-r-- 1 rujuta rujuta 10240 Jan 8 16:43 file.tar
rujuta@Inspiron-5558:~/dtl$
```

23. jobs

```
rujuta@Inspiron-5558:~/dtl$ jobs
rujuta@Inspiron-5558:~/dtl$ jobs -r
```

```
15510 0.0 0.0 216/2 5388 pts/1
15530 0.0 0.0 20744 2784 pts/0
15531 0.0 0.0 23072 1580 pts/1
rujuta
                                                                                                                           16:56
                                                                                                                                             o:oo bash
                                                                                                                                         0:00 ping www.google.com
rujuta
                                                                                                               S+
                                                                                                                           16:58
rujuta
                                                                                                                           16:58
                                                                                                                                          0:00 ps ux
rujuta@Inspiron-5558:~/dtl$ kill 15530 pid
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=11 ttl=118 time=17.0 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=12 ttl=118 time=13.9 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=13 ttl=118 time=19.6 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=14 ttl=118 time=16.3 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=15 ttl=118 time=15.0 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=16 ttl=118 time=14.6 ms 64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=17 ttl=118 time=13.9 ms 64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=18 ttl=118 time=13.1 ms 64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=19 ttl=118 time=14.3 ms
Terminated
```

25.ping

```
rujuta@Inspiron-5558:~/dtl$ ping www.google.com
PING www.google.com (142.250.199.132) 56(84) bytes of data.
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=1 ttl=118 time=12.8 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=2 ttl=118 time=16.7 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=3 ttl=118 time=13.6 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=4 ttl=118 time=11.2 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=5 ttl=118 time=17.3 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=6 ttl=118 time=12.3 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=7 ttl=118 time=14.0 ms
64 bytes from bom07s36-in-f4.1e100.net (142.250.199.132): icmp_seq=8 ttl=118 time=14.1 ms
```

26. wget

27. uname

```
rujuta@Inspiron-5558:~/dtl$ uname
Linux
```

28. top

```
top - 17:18:13 up 1:16, 1 user, load average: 0.48, 0.20, 0.29

Tasks: 237 total, 1 running, 236 sleeping, 0 stopped, 0 zombie

%Cpu(s): 16.7 us, 8.3 sy, 0.0 ni, 75.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st

WiB Mem: 7860.0 total, 2753.0 free, 1353.8 used, 3753.2 buff/cache
               2048.0 total,
                                    2048.0 free,
                                                           0.0 used.
                                                                            5817.8 avail Mem
IiB Swap:
                                    VIRT
                                                        SHR S
                                                                 %CPU %MEM
                                                                                     TIME+ COMMAND
     PTD USER
                       PR NT
                                              RES
                                                                                  0:34.91 gnome-terminal-
0:06.39 top
                                                     40668 S
   1947 rujuta
                       20
                                  759120
                                            59788
                             0
                                                                 33.3
                                                                          0.7
  16181 rujuta
                       20
                             0
                                   23628
                                             4096
                                                       3240 R
                                                                 33.3
                                                                          0.1
       1 root
                       20
                             0
                                  168088
                                            13356
                                                       8300
                                                                  0.0
                                                                          0.2
                                                                                  0:02.93 systemd
                                                                                  0:00.00 kthreadd
                       20
                                                          0
                                                             S
                                                                  0.0
                                                                          0.0
       2 root
                             0
                                        0
                                                 0
                                                                                  0:00.00 rcu_gp
0:00.00 rcu_par_gp
                        0 -20
                                        0
                                                 0
                                                          0 I
                                                                  0.0
       3 root
                                                                          0.0
       4 root
                        0
                           -20
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
       5 root
                        0 -20
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
                                                                                  0:00.00 netns
       7 root
                           -20
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
                                                                                  0:00.00 kworker/0:0H-events_highpri
                                                             1
                                                                                  0:00.39 kworker/0:1H-events_highpri
       9 root
                        0
                           -20
                                                          0
                                                                  0.0
                                        0
                                                 0
                                                                          0.0
                                                                                  0:00.00 mm_percpu_wq
0:00.00 rcu_tasks_rude
                                                          0 I
                        0 -20
                                        0
                                                 0
                                                                  0.0
      10 root
                                                                          0.0
                                                            S
      11 root
                       20
                             0
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
      12 root
                       20
                             0
                                        0
                                                 0
                                                          0 S
                                                                  0.0
                                                                          0.0
                                                                                  0:00.00 rcu_tasks_trace
      13 root
                       20
                             0
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
                                                                                  0:00.14 ksoftirqd/0
                                                                                  0:02.99 rcu_sched
      14 root
                       20
                                        0
                                                 0
                                                          0
                                                             1
                                                                  0.0
                             0
                                                                          0.0
                                                          0 S
0 S
                                                                                  0:00.02 migration/0
0:00.00 idle_inject/0
                             0
                                        0
                                                 0
                                                                  0.0
      15 root
                                                                          0.0
      16 root
                      -51
                             0
                                        0
                                                 0
                                                                  0.0
                                                                          0.0
      18 root
                       20
                             0
                                        0
                                                 0
                                                          0 S
                                                                  0.0
                                                                          0.0
                                                                                  0:00.00 cpuhp/0
      19 root
                       20
                             0
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
                                                                                  0:00.00 cpuhp/1
                                                                                  0:00.00 idle_inject/1
      20 root
                      -51
                                        0
                                                 0
                                                          0
                             0
                                                                  0.0
                                                                          0.0
                                                                                  0:00.21 migration/1
0:00.11 ksoftirqd/1
                                                          0 S
0 S
      21 root
                       гt
                             0
                                        0
                                                 0
                                                                  0.0
                                                                          0.0
      22 root
                       20
                             0
                                        0
                                                 0
                                                                  0.0
                                                                          0.0
      24 root
                       0
                           -20
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
                                                                                  0:00.00 kworker/1:0H-events_highpri
                                                                                  0:00.00 cpuhp/2
      25 root
                       20
                             0
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
                                                                                  0:00.00 idle_inject/2
                      -51
                             0
                                        0
                                                 0
                                                          0
                                                                  0.0
                                                                          0.0
      26 root
```

29. history

```
rujuta@Inspiron-5558:~/dtl$ history
       pwd
       ls
      cd home
       mkdir DSA
       rmdir DSA
      ls
      mkdir DSA
   8
      ls
       cd DSA
   9
       touch test.txt
       ls
      cd/etc/default/
sudo apt install ubuntu-desktop
   12
   13
   14
       sudo reboot
       sudo apt-get remove ubuntu desktop
   16
       sudo apt update
       sudo apt install ubuntu-desktop
   17
       sudo apt-get install ubuntu-desktop
   18
   19
       sudo apt purge ubuntu-desktop
       sudo apt autoremove
   20
   21
       sudo dpkg-reconfigure gdm3
       sudo reboot
  22
       sudo apt-get install ubuntu-desktop
   24
       sudo apt purge x ubuntu-desktop
   25
       sudo apt purge xubuntu-desktop
   26
       sudo apt autoremove
       sudo dpkg-reconfigure gdm3
   27
   28
       dpkg --configure lightdm
```

```
LS(1)
                                                                  User Commands
                                                                                                                                             LS(1)
NAME
       ls - list directory contents
SYNOPSIS

ls [OPTION]... [FILE]...
DESCRIPTION

List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.
       Mandatory arguments to long options are mandatory for short options too.
       -a, --all do not ignore entries starting with .
       -A, --almost-all do not list implied . and ..
       --author
with -l, print the author of each file
       -b, --escape
print C-style escapes for nongraphic characters
       --block-size=<u>SIZE</u>
with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below
       with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first
           list entries by columns
Manual page ls(1) line 1 (press h for help or q to quit)
```

31. echo

```
rujuta@Inspiron-5558:~/dtl$ echo -e "\b Hello \bWorld"
HelloWorld
rujuta@Inspiron-5558:~/dtl$ [
```

32. zip, unzip

```
rujuta@Inspiron-5558:~/dtl$ zip zipfile f1.txt f2.txt f3.txt f4.txt
  adding: f1.txt (deflated 22%)
  adding: f2.txt (stored 0%)
  adding: f3.txt (stored 0%)
  adding: f4.txt (deflated 2<u>0</u>%)
rujuta@Inspiron-5558:~/dtl$
rujuta@Inspiron-5558:~/dtl$ unzip zipfile.zip
Archive: zipfile.zip
replace f1.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: f1.txt
replace f2.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: f2.txt
replace f3.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: f3.txt
replace f4.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: f4.txt
rujuta@Inspiron-5558:~/dtl$
```

33. hostname

```
rujuta@Inspiron-5558:~/dtl$ hostname
Inspiron-5558
rujuta@Inspiron-5558:~/dtl$
```

34. useradd, userdel

```
rujuta@Inspiron-5558:~$ sudo useradd RB
[sudo] password for rujuta:
rujuta@Inspiron-5558:~$
```

35. apt-get

```
rujuta@Inspiron-5558:~$ sudo apt install htop
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
 libflashrom1 libftdi1-2
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
 htop
O upgraded, 1 newly installed, O to remove and 21 not upgraded.
Need to get 128 kB of archives.
After this operation, 342 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 htop amd64 3.0.5-7build2 [128 kB] Fetched 128 kB in 2s (58.1 kB/s)
Selecting previously unselected package htop.
(Reading database ... 224354 files and directories currently installed.)
Preparing to unpack .../htop_3.0.5-7build2_amd64.deb ...
Unpacking htop (3.0.5-7build2) ...
Setting up htop (3.0.5-7build2) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
rujuta@Inspiron-5558:~$
```

36. nano, vi, jed

```
rujuta@Inspiron-5558:~$ vi file.txt
rujuta@Inspiron-5558:~$ [
```

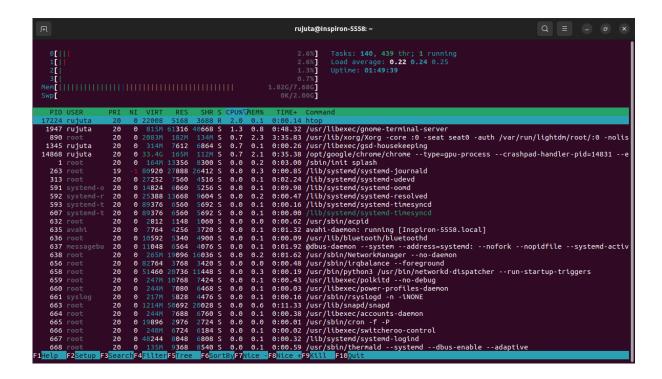
37. alias, unalias

```
rujuta@Inspiron-5558:~/dtl$ alias l='ls'
rujuta@Inspiron-5558:~/dtl$ l
f1_1.txt f1.txt f2.txt f3.txt f4.txt file.tar zipfile.zip
rujuta@Inspiron-5558:~/dtl$
```

38. su

```
rujuta@Inspiron-5558:~$ su
Password:
```

39. htop



40. ps

```
rujuta@Inspiron-5558:~$ ps

PID TTY TIME CMD

1967 pts/0 00:00:00 bash

17265 pts/0 00:00:00 ps
```