

Kelas : D

```

root@kayon-pc35:/home/kayon-pc35# cat /proc/mtrr
0 000000 MTRR default type: write-back
0 000000 MTRR fixed ranges enabled:
0 000000 00000-9FFFF write-back
0 000000 A0000-BFFFF uncachable
0 000000 C0000-FFFFF write-protect
0 000000 MTRR variable ranges enabled:
0 000000 0 base 00E0000000 mask 7FE0000000 uncachable
0 000000 1 base 00D0000000 mask 7FF0000000 uncachable
0 000000 2 disabled
0 000000 3 disabled
root@kayon-pc35:/home/kayon-pc35# uptime
07:42:41 up 21 min, 1 user, load average: 0.33, 0.52, 0.62
root@kayon-pc35:/home/kayon-pc35# whoami
root
root@kayon-pc35:/home/kayon-pc35# who
kayon-pc35 tty7 2019-10-10 14:21 (:0)
root@kayon-pc35:/home/kayon-pc35# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc35:/home/kayon-pc35# last
kayon-pc tty7 :0 Thu Oct 10 14:21 gone - no logout
reboot system boot 4.18.0-22-generic1 Thu Oct 10 16:43 still running
kayon-pc tty7 :0 Tue Oct 8 16:13 - 17:35 (01:21)
reboot system boot 4.18.0-22-generic1 Tue Oct 8 16:13 - 17:35 (01:22)
kayon-pc tty7 :0 Tue Oct 8 15:00 - 15:40 (00:39)
reboot system boot 4.18.0-22-generic1 Tue Oct 8 15:00 - 15:40 (00:40)
tmp begins Tue Oct 8 14:59:45 2019
root@kayon-pc35:/home/kayon-pc35# finger

Command 'finger' not found, but can be installed with:

apt install finger

root@kayon-pc35:/home/kayon-pc35# w
07:43:01 up 21 min, 1 user, load average: 0.31, 0.51, 0.61
USER TTY FROM LOGINQ IDLE JCPU PCPU WHAT
kayon-pc tty7 :0 14:21 ? 31.71% 0.02s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayon-pc35:/home/kayon-pc35# top
top - 07:43:07 up 21 min, 1 user, load average: 0.28, 0.50, 0.61
tasks: 193 total, 1 running, 136 sleeping, 0 stopped, 0 zombie
Cpu(s): 0.5 us, 0.0 sy, 0.0 ni, 99.5 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
Mem: 8116436 total, 4350300 free, 833280 used, 2932856 buff/cache
Mem Swap: 947128 total, 947128 free, 0 used, 6899632 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  %CPU  %MEM     TIME+ COMMAND
 7074 kayon-pr  20   0 2634356 181788 132412 S   1.0  2.2   0:04.17 web.Conte
 855 root      20   0 462296 69436 53324 S   0.3  0.9   0:31.73 Xorg
6679 kayon-pr  20   0 2665104 180776 115532 S   0.3  2.2   0:11.43 Web.Conte
6962 kayon-pr  20   0 2605548 152844 114024 S   0.3  1.9   0:09.74 Web.Conte
7053 root      20   0 0 0 0 I   0.3  0.0   0:00.05 worker.rs:2-ev
 1 root      20   0 225500 9528 6972 S   0.0  0.1   0:03.62 systemd
 2 root      20   0 0 0 0 S   0.5  0.0 0:00.00 kthreadd
 3 root      20  -20 0 0 0 I   0.0  0.0 0:00.00 rcu_gp

```

```
Terminal - root@kayon-pc35:/home/kayon-pc35

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
7074 kayon-pr 20 0 2634356 101798 132412 S 1.0 2.2 0:04.17 web Content
855 root 20 0 462296 69436 53324 S 0.3 0.9 0:31.73 Xorg
6679 kayon-pr 20 0 2665104 180776 111532 S 0.3 2.2 0:11.43 Web Content
6962 kayon-pr 20 0 2605848 152844 114024 S 0.3 1.9 0:09.74 Web Content
7053 root 20 0 0 0 0 I 0.3 0.0 0:00.05 kworker/u8:2-ev
1 root 20 0 225500 9328 6972 S 0.0 0.1 0:03.62 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-kb
8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
9 root 20 0 0 0 0 S 0.0 0.0 0:00.07 ksoftirqd/0
10 root 20 0 0 0 0 I 0.0 0.0 0:01.12 rcu_sched
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_bh
12 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0
13 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/0
14 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
15 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
16 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/1
17 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/1
18 root 20 0 0 0 0 S 0.0 0.0 0:00.08 ksoftirqd/1
20 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
22 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/2
23 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/2
24 root 20 0 0 0 0 S 0.0 0.0 0:00.07 ksoftirqd/2
26 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3
28 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/3
29 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/3
30 root 20 0 0 0 0 S 0.0 0.0 0:00.08 ksoftirqd/3
32 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H
33 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs
34 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
35 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd
40 root 0 -20 0 0 0 S 0.0 0.0 0:00.00 khungtaskd
41 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom_reaper
42 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback
43 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0
44 root 25 5 0 0 0 S 0.0 0.0 0:00.00 ksm
45 root 39 19 0 0 0 S 0.0 0.0 0:00.00 khugepaged
46 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 crypto
47 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kintegrityd
48 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kblockd
50 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 ata_sff
51 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 md
root@kayon-pc35:/home/kayon-pc35# echo $SHELL
/bin/bash
root@kayon-pc35:/home/kayon-pc35# echo {con,pre}{sent,fer}{s,e,d}
consents consented confers conferred presents presented prefers preferred
root@kayon-pc35:/home/kayon-pc35# man ls
root@kayon-pc35:/home/kayon-pc35#
```

```
Terminal - root@kayon-pc35:/home/kayon-pc35

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=SIZE
scale sizes by SIZE before printing them; e.g., '--block-size=M' prints sizes in units of 1,048,576 bytes; see SIZE format below

-B, --ignore-backups
do not list implied entries ending with ~

-c
with -lt: sort by, and show, ctime (time of last modification); with -L show ctime and sort by name; otherwise: sort by ctime, newest first

-C
list entries by columns

--color[=WHEN]
colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below

-d, --directory
list directories themselves, not their contents

-D, --dired
generate output designed for Emacs' dired mode

-f
do not sort, enable -aU, disable -ls --color

-F, --classify
append indicator (one of */=>@) to entries

--file-type
likewise, except do not append '*'

--format=WORD
Manual page ls(1) line 1 (press h for help or q to quit)
```

```
Terminal - root@kayon-pc35:/home/kayon-pc35
File Edit View Terminal Tabs Help
who(1) User Commands who(1)
NAME
  who - show who is logged on
SYNOPSIS
  who [OPTION]... [ FILE | ARG1 ARG2 ]
DESCRIPTION
  Print information about users who are currently logged in.
  -a, --all
    same as -b -d --login -p -r -t -T -u
  -b, --boot
    time of last system boot
  -d, --dead
    print dead processes
  -H, --heading
    print line of column headings
  --ips
    print ips instead of hostnames. with --lookup canonicalizes based on stored IP, if available, rather than stored hostname
  -l, --login
    print system login processes
  --lookup
    attempt to canonicalize hostnames via DNS
  -n
    only hostname and user associated with stdin
  -p, --process
    print active processes spawned by init
  -q, --count
    all login names and number of users logged on
  -r, --runlevel
    print current runlevel
  -s, --short
    print only name, line, and time (default)
  -t, --time
    print last system clock change
  -T, -w, --msg
    add user's message status as +, - or ?
  -u, --users
    list users logged in
Manual page who(1) line 1 (press h for help or q to quit)
```

```
Terminal - root@kayon-pc35:/home/kayon-pc35
File Edit View Terminal Tabs Help
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_bh
12 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0
13 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/0
14 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
15 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
16 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/1
17 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/1
18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 ksoftirqd/1
20 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
22 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/2
23 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/2
24 root 20 0 0 0 0 S 0.0 0.0 0:00.07 ksoftirqd/2
26 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3
28 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/3
29 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/3
30 root 20 0 0 0 0 S 0.0 0.0 0:00.05 ksoftirqd/3
32 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H
33 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs
34 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
35 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd
40 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd
41 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom_reaper
42 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback
43 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0
44 root 25 5 0 0 0 S 0.0 0.0 0:00.00 ksm
45 root 39 19 0 0 0 S 0.0 0.0 0:00.00 khugepaged
46 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 crypto
47 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kintegrityd
48 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kblockd
50 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 ata_sff
51 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 nd
root@kayon-pc35:/home/kayon-pc35# echo $SHELL
/bin/bash
root@kayon-pc35:/home/kayon-pc35# echo (con pref)(sent fer)(s,ed)
consents consented confers conferred presents presented prefers preferred
root@kayon-pc35:/home/kayon-pc35# man ls
root@kayon-pc35:/home/kayon-pc35# man ls
root@kayon-pc35:/home/kayon-pc35# man who
root@kayon-pc35:/home/kayon-pc35# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc35:/home/kayon-pc35# last
kayon-pc tty7 :0 Thu Oct 10 14:21 gone - no logout
reboot system boot 4.18.0-22-generic Thu Oct 10 14:21 still running
kayon-pc tty7 :0 Tue Oct 8 16:13 - 17:35 (01:21)
reboot system boot 4.18.0-22-generic Tue Oct 8 16:13 - 17:35 (01:22)
kayon-pc tty7 :0 Tue Oct 8 15:00 - 15:40 (00:39)
reboot system boot 4.18.0-22-generic Tue Oct 8 15:00 - 15:40 (00:40)
utmp begins Tue Oct 8 14:59:45 2019
root@kayon-pc35:/home/kayon-pc35#
```

```
%
Terminal - root@kayon-pc35:/home/kayon-pc35

File Edit View Terminal Tabs Help

snap install --dev-mode --classic snapd
root@kayon-pc35:/home/kayon-pc35# clear

root@kayon-pc35:/home/kayon-pc35# fdisk -l
Disk /dev/sda: 931.5 GiB, 10002048000 bytes, 1953525168 sectors
units: sectors of 1 * 512 = 512 bytes
sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
disklabel type: dos
disk identifier: 0x72985fc1

Device Boot      Start         End      Sectors  Size Id Type
/dev/sda1 *        2048        206847       204800    100M 7 HPFS/NTFS/exFAT
/dev/sda2          206848       624232447    624025600    297.6G 7 HPFS/NTFS/exFAT
/dev/sda3          624232448    1912501663    1288269216    614.3G 7 HPFS/NTFS/exFAT
/dev/sda4          1912501664    1953523711     40962048     19.5G 83 Linux

root@kayon-pc35:/home/kayon-pc35# users
kayon-pc35
root@kayon-pc35:/home/kayon-pc35# cat /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# file system  <mount point>  <type>  <options>          <dump>  <pass>
# / was on /dev/sda4 during installation
UUID=90bf1bch-f25e-4ae3-9393-2c19d2hacead /          ext4      errors=remount-ro 0        1
# swapfile
swapfile          none      sw        0            0

root@kayon-pc35:/home/kayon-pc35# call 2000

Command 'call' not found, did you mean:

  command 'pall' from snap pall (2.0.2)
  command 'cal' from deb bsdmainutils
  command 'wall' from deb bsdutils
  command 'calc' from deb apcalc

See 'snap info <snapname>' for additional versions.

root@kayon-pc35:/home/kayon-pc35# cal 2000
      2000
January      February      Maret
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1                1 2 3 4 5        1 2 3 4
2 3 4 5 6 7 8 6 7 8 9 10 11 12 5 6 7 8 9 10 11
9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29        26 27 28 29 30 31
30 31

April      Mei      Juni
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1                1 2 3 4 5 6        1 2 3
2 3 4 5 6 7 8 7 8 9 10 11 12 13 4 5 6 7 8 9 10
9 10 11 12 13 14 15 14 15 16 17 18 19 20 11 12 13 14 15 16 17
16 17 18 19 20 21 22 21 22 23 24 25 26 27 18 19 20 21 22 23 24
23 24 25 26 27 28 29 28 29 30 31        25 26 27 28 29 30
30

July      Agustus      September
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1                1 2 3 4 5        1 2
2 3 4 5 6 7 8 6 7 8 9 10 11 12 3 4 5 6 7 8 9
9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23
23 24 25 26 27 28 29 27 28 29 30 31        24 25 26 27 28 29 30
30 31

Oktober      November      Desember
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7        1 2 3 4        1 2
8 9 10 11 12 13 14 5 6 7 8 9 10 11 3 4 5 6 7 8 9
15 16 17 18 19 20 21 12 13 14 15 16 17 18 10 11 12 13 14 15 16
22 23 24 25 26 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
29 30 31        26 27 28 29 30        24 25 26 27 28 29 30
31

root@kayon-pc35:/home/kayon-pc35# cal 9
      9
January      February      Maret
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5        1 2        1 2
6 7 8 9 10 11 12 3 4 5 6 7 8 9 3 4 5 6 7 8 9
13 14 15 16 17 18 19 10 11 12 13 14 15 16 10 11 12 13 14 15 16
20 21 22 23 24 25 26 17 18 19 20 21 22 23 17 18 19 20 21 22 23
27 28 29 30 31        24 25 26 27 28        24 25 26 27 28 29 30
31

April      Mei      Juni
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6        1 2 3 4        1
7 8 9 10 11 12 13 5 6 7 8 9 10 11 2 3 4 5 6 7 8
14 15 16 17 18 19 20 12 13 14 15 16 17 18 9 10 11 12 13 14 15
```

```
%
Terminal - root@kayon-pc35:/home/kayon-pc35

File Edit View Terminal Tabs Help

See 'snap info <snapname>' for additional versions.

root@kayon-pc35:/home/kayon-pc35# cal 2000
      2000
January      February      Maret
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1                1 2 3 4 5        1 2 3 4
2 3 4 5 6 7 8 6 7 8 9 10 11 12 5 6 7 8 9 10 11
9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29        26 27 28 29 30 31
30 31

April      Mei      Juni
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1                1 2 3 4 5 6        1 2 3
2 3 4 5 6 7 8 7 8 9 10 11 12 13 4 5 6 7 8 9 10
9 10 11 12 13 14 15 14 15 16 17 18 19 20 11 12 13 14 15 16 17
16 17 18 19 20 21 22 21 22 23 24 25 26 27 18 19 20 21 22 23 24
23 24 25 26 27 28 29 28 29 30 31        25 26 27 28 29 30
30

July      Agustus      September
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1                1 2 3 4 5        1 2
2 3 4 5 6 7 8 6 7 8 9 10 11 12 3 4 5 6 7 8 9
9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23
23 24 25 26 27 28 29 27 28 29 30 31        24 25 26 27 28 29 30
30 31

Oktober      November      Desember
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7        1 2 3 4        1 2
8 9 10 11 12 13 14 5 6 7 8 9 10 11 3 4 5 6 7 8 9
15 16 17 18 19 20 21 12 13 14 15 16 17 18 10 11 12 13 14 15 16
22 23 24 25 26 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
29 30 31        26 27 28 29 30        24 25 26 27 28 29 30
31

root@kayon-pc35:/home/kayon-pc35# cal 9
      9
January      February      Maret
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5        1 2        1 2
6 7 8 9 10 11 12 3 4 5 6 7 8 9 3 4 5 6 7 8 9
13 14 15 16 17 18 19 10 11 12 13 14 15 16 10 11 12 13 14 15 16
20 21 22 23 24 25 26 17 18 19 20 21 22 23 17 18 19 20 21 22 23
27 28 29 30 31        24 25 26 27 28        24 25 26 27 28 29 30
31

April      Mei      Juni
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6        1 2 3 4        1
7 8 9 10 11 12 13 5 6 7 8 9 10 11 2 3 4 5 6 7 8
14 15 16 17 18 19 20 12 13 14 15 16 17 18 9 10 11 12 13 14 15
```



```
Terminal - root@kayon-pc35: /home/kayon-pc35
File Edit View Terminal Tabs Help
root@kayon-pc35: /home/kayon-pc35# history
1 clear
2 apt update
3 apt-get upgrade
4 clear
5 apt autoremove
6 apt upgrade
7 apt autoremove
8 apt autoclean
9 nano /etc/bash.bashrc
10 clear
11 apt install ssh
12 clear
13 apt install ssh
14 service ssh restart
15 apt install ubiquity-slideshow-xubuntu
16 apt install -f
17 clear
18 nano /etc/lsb-release
19 clear
20 clear
21 clear
22 lsb_release -a
23 clear
24 apt purge pinguybuilder
25 clear
26 apt autoremove
27 clear
28 apt autoclean
29 clear
30 hddj
31 cd ..
32 ls
33 rm -rf PinguyBuilder/*
34 ls
35 rm -rf PinguyBuilder
36 ls
37 cd master/
38 ls
39 rm -rf pinguybuilder_5.1-8_all.deb
40 clear
41 ls
42 clear
43 apt update
44 apt update
45 cea
46 clear
47 ez
48 ex
49 poweroff
50 clear
51 ls
52 apt update
53 clear
54
```

```
Terminal - root@kayon-pc35: /home/kayon-pc35
File Edit View Terminal Tabs Help
root@kayon-pc35: /home/kayon-pc35# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayon-pc35: /home/kayon-pc35# lsmod
module                  size  used by
aufs                    77824  0
bnx4                    16384  0
btrfsplus              106496  0
bfs                     57344  0
btrfs                  32768  0
btrfs                  102400  0
btrfs                  20480  0
btrfs                  188416  0
btrfs                  1290240  0
cpuid                   16384  0
eficon                  77824  16
mac                     16384  1
bneep                   20480  2
snd_seq_midi            16384  0
snd_seq_midi_event      16384  1 snd_seq_midi
arc4                    16384  2
snd_pcm                32768  1 snd_seq_midi
iwlvm                   376832  0
mac80211                802816  1 iwlvm
snd_hda_codec_hdmi      49152  1
snd_hda_codec_realtek   106496  1
snd_hda_codec_generic   73728  1 snd_hda_codec_realtek
snd_hda_intel           40960  2
snd_hda_codec           126976  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
snd_hda_core            51920  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
input_leds              16384  0
joydev                  24576  0
snd_hdeap               20480  1 snd_hda_codec
snd_pcm                 98304  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
snd_fm100               20480  6
snd_seq                 55536  2 snd_seq_midi,snd_seq_midi_event
iwlwifi                 299008  1 iwlvm
iwlwifi                 667648  3 iwlvm,iwlwifi,mac80211
intel_rapl              20480  0
x86_pkg_temp_thermal    16384  0
intel_powerclamp        16384  0
coretemp                16384  0
kvm_intel               208896  0
kvm                     626688  1 kvm_intel
irqbypass               16384  1 kvm
rcrt10difi_pciul        16384  0
rcrt2_pciul             16384  0
phash_claulni_intel     16384  0
bchc                     16384  0
btusb                    45056  0
btusb                   16384  1 btusb
btusb                   16384  1 btusb
btintel                 20480  1 btusb
bluetooth               552460  3 hciintel,hciusb,btusb,rfcomm
```

```
Terminal - root@kayon-pc35: /home/kayon-pc35

File Edit View Terminal Tabs Help

root@kayon-pc35: /home/kayon-pc35# ps -aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.1  0.1 225500 9520 ?        Ss   07:21 0:03 /lib/systemd/systemd --system --deserialize 41
root         2  0.0  0.0      0  0 ?        S   07:21 0:00 [kthreadd]
root         3  0.0  0.0      0  0 ?        I<  07:21 0:00 [rcu_gp]
root         4  0.0  0.0      0  0 ?        I<  07:21 0:00 [rcu_par_gp]
root         6  0.0  0.0      0  0 ?        I<  07:21 0:00 [kworker/0:0H-kb]
root         8  0.0  0.0      0  0 ?        I<  07:21 0:00 [mm_percpu_wq]
root         9  0.0  0.0      0  0 ?        S   07:21 0:00 [ksoftirqd/0]
root        10  0.1  0.0      0  0 ?        I  07:21 0:02 [rcu_sched]
root        11  0.0  0.0      0  0 ?        I  07:21 0:00 [rcu_bh]
root        12  0.0  0.0      0  0 ?        S   07:21 0:00 [migration/0]
root        13  0.0  0.0      0  0 ?        S   07:21 0:00 [watchdog/0]
root        14  0.0  0.0      0  0 ?        S   07:21 0:00 [cgroupd]
root        15  0.0  0.0      0  0 ?        S   07:21 0:00 [cpuhp/1]
root        16  0.0  0.0      0  0 ?        S   07:21 0:00 [watchdog/1]
root        17  0.0  0.0      0  0 ?        S   07:21 0:00 [migration/1]
root        18  0.0  0.0      0  0 ?        S   07:21 0:00 [ksoftirqd/1]
root        20  0.0  0.0      0  0 ?        I<  07:21 0:00 [kworker/1:0H-kb]
root        21  0.0  0.0      0  0 ?        S   07:21 0:00 [cpuhp/2]
root        22  0.0  0.0      0  0 ?        S   07:21 0:00 [watchdog/2]
root        23  0.0  0.0      0  0 ?        S   07:21 0:00 [migration/2]
root        24  0.0  0.0      0  0 ?        S   07:21 0:00 [ksoftirqd/2]
root        26  0.0  0.0      0  0 ?        I<  07:21 0:00 [kworker/2:0H-kb]
root        27  0.0  0.0      0  0 ?        S   07:21 0:00 [cpuhp/3]
root        28  0.0  0.0      0  0 ?        S   07:21 0:00 [watchdog/3]
root        29  0.0  0.0      0  0 ?        S   07:21 0:00 [migration/3]
root        30  0.0  0.0      0  0 ?        S   07:21 0:00 [ksoftirqd/3]
root        32  0.0  0.0      0  0 ?        I<  07:21 0:00 [kworker/3:0H]
root        33  0.0  0.0      0  0 ?        S   07:21 0:00 [kdevtmpfs]
root        34  0.0  0.0      0  0 ?        I<  07:21 0:00 [netns]
root        35  0.0  0.0      0  0 ?        S   07:21 0:00 [rcu_tasks_kthre]
root        36  0.0  0.0      0  0 ?        S   07:21 0:00 [kauditd]
root        40  0.0  0.0      0  0 ?        S   07:21 0:00 [khungtaskd]
root        41  0.0  0.0      0  0 ?        S   07:21 0:00 [oom_reaper]
root        42  0.0  0.0      0  0 ?        I<  07:21 0:00 [writeback]
root        43  0.0  0.0      0  0 ?        S   07:21 0:00 [kcompactd0]
root        44  0.0  0.0      0  0 ?        SN  07:21 0:00 [kseel]
root        45  0.0  0.0      0  0 ?        SN  07:21 0:00 [khugepaged]
root        46  0.0  0.0      0  0 ?        I<  07:21 0:00 [crypto]
root        47  0.0  0.0      0  0 ?        I<  07:21 0:00 [kintegrityd]
root        48  0.0  0.0      0  0 ?        I<  07:21 0:00 [kblockd]
root        50  0.0  0.0      0  0 ?        I<  07:21 0:00 [ata_sff]
root        51  0.0  0.0      0  0 ?        I<  07:21 0:00 [hd]
root        52  0.0  0.0      0  0 ?        I<  07:21 0:00 [edac-poller]
root        53  0.0  0.0      0  0 ?        I<  07:21 0:00 [devfreq_wq]
root        54  0.0  0.0      0  0 ?        S   07:21 0:00 [watchdogd]
root        58  0.0  0.0      0  0 ?        S   07:21 0:00 [kswapd0]
root        59  0.0  0.0      0  0 ?        I<  07:21 0:00 [kworker/u9:0-rb]
root        60  0.0  0.0      0  0 ?        S   07:21 0:00 [kcryptfs-kthrea]
root       109  0.0  0.0      0  0 ?        I<  07:21 0:00 [kthrotld]
root       106  0.0  0.0      0  0 ?        I<  07:21 0:00 [acpi_thermal_gm]
root       110  0.0  0.0      0  0 ?        I<  07:21 0:00 [lpv6_addrconf]
```

```
Terminal - root@kayon-pc35: /home/kayon-pc35

File Edit View Terminal Tabs Help

root 28978 0.0 0.0 0 0 ? I 07:28 0:00 [kworker/3:4-mm_]
root 28979 0.2 0.0 0 0 ? I 07:28 0:04 [kworker/3:5-eve]
root@kayon-pc35: /home/kayon-pc35# lspci
00:00.0 Host bridge: Intel Corporation Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers (rev 07)
00:01.0 PCI bridge: Intel Corporation Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor PCIe Controller (x16) (rev 07)
00:14.0 USB controller: Intel Corporation 100 Series/C230 Series Chipset Family USB 3.0 XHCI Controller (rev 31)
00:16.0 Communication controller: Intel Corporation 100 Series/C230 Series Chipset Family MEI Controller #1 (rev 31)
00:17.0 SATA controller: Intel Corporation Q170/Q150/B150/H170/H110/Z170/Q230 Chipset SATA Controller [AHCI Mode] (rev 31)
00:1c.0 PCI bridge: Intel Corporation 100 Series/C230 Series Chipset Family PCI Express Root Port #6 (rev f1)
00:1d.0 PCI bridge: Intel Corporation 100 Series/C230 Series Chipset Family PCI Express Root Port #9 (rev f1)
00:1f.0 ISA bridge: Intel Corporation H110 Chipset LPC/eSPI Controller (rev 31)
00:1f.2 Memory controller: Intel Corporation 100 Series/C230 Series Chipset Family Power Management Controller (rev 31)
00:1f.3 Audio device: Intel Corporation 100 Series/C230 Series Chipset Family HD Audio Controller (rev 31)
00:1f.4 SMBus: Intel Corporation 100 Series/C230 Series Chipset Family SMBus (rev 31)
01:00.1 VGA compatible controller: NVIDIA Corporation GK208B [GeForce GT 720] (rev a1)
01:00.1 Audio device: NVIDIA Corporation GK208 HDMI/DP Audio Controller (rev a1)
02:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 0c)
03:00.0 Network controller: Intel Corporation Dual Band Wireless-AC 3165 Plus Bluetooth (rev 79)
root@kayon-pc35: /home/kayon-pc35# free
             total        used        free      shared  buff/cache   available
Mem:      6116436      1262980      3843952       98884      3009504      6458516
Swap:      947128           0       947128

root@kayon-pc35: /home/kayon-pc35# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 94
model name     : Intel(R) Core(TM) i5-6400 CPU @ 2.70GHz
stepping       : 3
microcode     : 0xc6
cpu MHz       : 2900.001
cache size    : 6144 KB
physical id    : 0
siblings      : 4
core id       : 0
cpu cores     : 4
apicid        : 0
initial apicid: 0
cpu           : yes
cpu exception : yes
cpuid level   : 22
cpuid         : yes
flags          : fpu vme de pse tsc mtr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts aepi mmx fxsr sse sse2 ss ht tm pbe syscall nx rdpshlgb rdtscp ln constant tsc art arch perfmon pube ht
rap_good nopl topology nonstop tsc_could aperfperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vnx est ts2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4.1 sse4.2 x2apic smmbe popcnt tsc_deadline_timer
aes xsave avx f16c rdrand lahf_lm adm 3dnowprefetch cpuid_fault epb invpcid_single pti ssbd lbrs ilhpb stibp tpr_shadow vmml flexpriority ept vpid fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rpx
rdseed adx smap clflushopt intel_pt xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hup hup_notify hup_act_window hup_esp_md_clear flush_l1d
bugs           : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds
bogomips      : 5424.00
clflush size  : 64
cache alignment : 64
address sizes  : 39 bits physical, 48 bits virtual
power management:

processor       : 1
vendor_id      : GenuineIntel
```





1. Linux adalah sistem operasi open source yang sangat populer dan ini bisa menjadi alternatif dari sistem operasi Windows yang dijamin lebih aman, bebas dari gangguan virus yang menyebarkan dan tentunya gratis untuk Anda gunakan daripada Anda menggunakan sistem operasi Windows bajakan.

## **1. Distro Linux Terbaik untuk PC dan laptop: Ubuntu**

Ubuntu Canonical's merupakan distro linux yang sudah sangat populer di kalangan pengguna linux. Ubuntu dibangun berdasarkan arsitektur Debian, dan Ubuntu telah berhasil menyeimbangkan stabilitas dan fitur-fitur baru seperti tidak ada distro lain didalamnya. Itu sebabnya ubuntu menjadi distro linux yang popularitas tak tertandingi. Jika Anda menjalankan komputer dengan kemampuan hardware yang terbatas, Anda harus mencoba citarasa Ubuntu seperti Ubuntu MATE, Xubuntu, atau Lubuntu.

## **2. Distro terbaik untuk pemula: Linux Mint**

Linux Mint adalah salah satu distro Linux yang paling cepat berkembang. Dan linux mint ini terus menantang Ubuntu untuk menjadi yang terpopuler. Selain itu, Linux Mint telah memantapkan dirinya sebagai OS pengganti sempurna untuk sistem operasi Windows dengan pengalaman desktop yang hampir sempurna. Alasan lain mengapa saya menyebutnya distro Linux terbaik untuk pengguna baru adalah kemampuannya untuk memberikan pengalaman yang tidak biasa kepada pengguna. Ini berarti Anda tidak perlu menghabiskan banyak waktu untuk menginstal distro dan paket sebelum Anda dapat menyelesaikan beberapa pekerjaan nyata.

## **3. Distro Linux untuk server: CentOS**

CentOS adalah cara untuk mendapatkan manfaat RHEL tanpa mengeluarkan biaya tunggal. Dengan kata lain, CentOS adalah komunitas yang didukung RHEL. Karena binernya kompatibel dengan RHEL dan repositorinya memiliki semua perangkat lunak yang sudah dicoba dan teruji, Anda dapat menggunakannya sebagai sistem atau server Anda. Ini juga terkenal sebagai sistem operasi untuk keperluan umum.

## **4. Distro Linux terbaik untuk hardware lama: Ubuntu MATE**

Bagi orang-orang yang percaya akan pentingnya keamanan internet, melihat Windows XP berjalan di kantor-kantor pemerintah dan bank membuat frustrasi. Namun, ada banyak alternatif yang andal dan aman dalam bentuk distribusi Linux. Ketika memutuskan distro Linux terbaik untuk perangkat keras atau hardware yang sudah ketinggalan jaman silahkan untuk menggunakan Ubuntu MATE. 17.10, karena versi ini merupakan rilis paling penting dari Ubuntu MATE dan membawa banyak fitur baru.

Persyaratan hardware minimum untuk sistem operasi linux Ubuntu MATE hanya 512MB. Ada distro lain yang lebih ringan seperti Puppy Linux dan Bodhi Linux juga, tetapi Ubuntu MATE memiliki keseimbangan sempurna dalam hal kinerja dan fitur dibanding lainnya.

## **5. Distro Linux terbaik untuk ethical hacking : Kali Linux**

Distro Kali Linux hadir dengan ratusan tool yang berguna untuk analisis kerentanan, serangan nirkabel, aplikasi web, alat eksploitasi, pengujian tegangan, alat forensik, dll. Berdasarkan cabang Pengujian Debian, sebagian besar paket dalam distro diimpor dari Repositori Debian.

Selain desktop dengan fitur lengkap, Kali linux juga dapat diinstal di Raspberry Pi, Ordroid, Chromebook, BeagleBone, dll. Ini juga tersedia untuk smartphone Android dengan Kali NetHunter. Selain itu, jika Anda ingin mencari distro linux untuk peretasan etika, maka Ada pilihan populer lainnya seperti Parrot OS, BlackArch Linux, dll.

2.

- 1) *cal* = menampilkan kalender
- 2) *cat* = menampilkan isi dari sebuah file
- 3) *cd* = mengganti atau berpindah direktori
- 4) *cfdisk* = memanipulasi tabel partisi
- 5) *chgrp* = mengubah kepemilikan grup dari user
- 6) *chmod* = mengubah hak ijin akses dari file/direktori
- 7) *chown* = mengubah kepemilikan dari suatu grup
- 8) *clear* = Membersihkan layar terminal
- 9) *cp* = menyalin file ke lokasi lain
- 10) *cron* = daemon yang digunakan untuk menjalankan perintah yang dijadwalkan
- 11) *crontab* = penjadwalan perintah yang dijalankan di lain waktu
- 12) *cut* = membagi file menjadi beberapa bagian
- 13) *date* = menampilkan dan mengubah waktu dan tanggal
- 14) *echo* = menampilkan tulisan dilayar
- 15) *exit* = keluar dari shell
- 16) *less* = menampilkan output satu layar terminal
- 17) *logout* = keluar dari sesi login shell
- 18) *mkdir* = mebuat direktori

19) *ping* = melakukan test sambungan jaringan

20) *pwd* = menampilkan lokasi kerja user pada saat itu

3.

1. init 0 => Digunakan utk maintenance, diagnostic hardware, booting selain dari disk misal dari cdroom.

command : init 0, shutdown -i0

2. init 1 => Single user mode, digunakan utk menambahkan patches, backup/restore system. di level ini kita bisa menjalankan/access semua file tapi user lain tidak bisa login ke dalam sytem kita.

command: init 1, shutdown -i1

3. init 2 => multiuser mode, biasanya utk digunakan dalam network. tapi disini tidak ada resourches yang di share.

command: init2, shutdown -i2

4. init 3 ==> memperluas multiuser mode,kita bisa membuat local resourches share pada network kita. sehingga kita bisa berbagi data dilevel ini dalam network.

command: init 3, shutdown -i3

5. init 4 ==> utk alternative multiuser mode tetapi saat ini belum bisa digunakan.

command: init4, shutdown -i4

6. init 5 ==> utk shutdown/ power off.

command: init5, shutdown -i5

7. init 6 ==> men stop operating system kemudian reboot dan kembali ke initdefault nya yang ada di /etc/inittab

command: init 6, shutdown -i6

4. quota = menampilkan sisa disk space