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Modul 5

```
Terminal - root@kayonpc6: /home/kayon-pc6
File Edit View Terminal Tabs Help
kayon-pc6@kayonpc6:~$ sudo su
[sudo] password for kayon-pc6:
root@kayonpc6: /home/kayon-pc6# echo halo dunia
halo dunia
root@kayonpc6: /home/kayon-pc6# date
Rab Okt  9 16:40:57 WIB 2019
root@kayonpc6: /home/kayon-pc6# hostname
kayonpc6
root@kayonpc6: /home/kayon-pc6# arch
x86_64
root@kayonpc6: /home/kayon-pc6# uname -a
Linux kayonpc6 5.0.0-27-generic #28-18.04.1-Ubuntu SMP Thu Aug 22 03:00:32 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayonpc6: /home/kayon-pc6# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-
02-26
[ 0.000000] Linux version 5.0.0-27-generic (build@lgw01-amd64-031) (gcc vers
ion 7.4.0 (Ubuntu 7.4.0-1ubuntu1-18.04.1)) #28-18.04.1-Ubuntu SMP Thu Aug 22 03:
00:32 UTC 2019 (Ubuntu 5.0.0-27.28-18.04.1-generic 5.0.21)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.0.0-27-generic root=UUID
=3ce7e41c-1415-459d-a200-395d72dadbbd ro quiet splash vt.handoff=1
[ 0.000000] KERNEL supported cpus:
[ 0.000000]   Intel GenuineIntel
[ 0.000000]   AMD AuthenticAMD
[ 0.000000]   Hygon HygonGenuine
[ 0.000000]   Centaur CentaurHauls
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point regi
sters'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
[ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
[ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes,
using 'standard' format.
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000000d7ff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000000d800-0x0000000000000ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000000e000-0x0000000000000ffff] reserved
root@kayonpc6: /home/kayon-pc6# uptime
16:51:09 up 14 min, 1 user, load average: 0,22, 0,39, 0,40
root@kayonpc6: /home/kayon-pc6# whoami
root
root@kayonpc6: /home/kayon-pc6# who
kayon-pc6 tty7          2019-10-09 23:36 (:0)
root@kayonpc6: /home/kayon-pc6# id
uid=0(root) gid=0(root) groups=0(root)
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
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root
root@kayonpc6:/home/kayon-pc6# who
kayon-pc6 tty7      2019-10-09 23:36 (:0)
root@kayonpc6:/home/kayon-pc6# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc6:/home/kayon-pc6# last
kayon-pc tty7      :0          Wed Oct 9 23:36   gone - no logout
reboot system boot 5.0.0-27-generic Wed Oct 9 23:36   still running
kayon-pc tty7      :0          Tue Oct 8 16:48 - 17:35 (00:46)
reboot system boot 5.0.0-27-generic Tue Oct 8 16:48 - 17:35 (00:47)
kayon-pc tty7      :0          Tue Oct 8 16:42 - 16:44 (00:02)
reboot system boot 5.0.0-27-generic Tue Oct 8 16:41 - 16:44 (00:03)
kayon-pc tty7      :0          Tue Oct 8 16:14 - 16:40 (00:26)
reboot system boot 5.0.0-27-generic Tue Oct 8 16:13 - 16:40 (00:27)

wtmp begins Tue Oct 8 15:44:52 2019
root@kayonpc6:/home/kayon-pc6# finger

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

apt install finger

root@kayonpc6:/home/kayon-pc6# apt install finger
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  finger
0 upgraded, 1 newly installed, 0 to remove and 34 not upgraded.
Need to get 15,6 kB of archives.
After this operation, 48,1 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu bionic/universe amd64 finger amd64 0.17-15.1 [15,6 kB]
Fetched 15,6 kB in 6s (2.708 B/s)
Selecting previously unselected package finger.
(Reading database ... 303965 files and directories currently installed.)
Preparing to unpack .../finger_0.17-15.1_amd64.deb ...
Unpacking finger (0.17-15.1) ...
Setting up finger (0.17-15.1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
root@kayonpc6:/home/kayon-pc6# w
16:57:24 up 21 min, 1 user, load average: 0,12, 0,17, 0,28
USER  TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
kayon-pc tty7      :0          23:36   ?      9.43s  0.02s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc6:/home/kayon-pc6#
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
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root@kayonpc6:/home/kayon-pc6# top
top - 16:58:22 up 22 min, 1 user, load average: 0,16, 0,17, 0,27
Tasks: 181 total, 1 running, 130 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0,1 us, 0,2 sy, 0,0 ni, 99,7 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3975000 total, 1160224 free, 483380 used, 2331396 buff/cache
KiB Swap: 902668 total, 902668 free, 0 used, 3195036 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
10726 root        20   0 51668   3940  3240 R   0,7   0,1   0:00.07 top
1142 kayon-p+  20   0 191648 22256 17740 S   0,3   0,6   0:01.37 xfwm4
1 root      20   0 225260  9388  7092 S   0,0   0,2   0:01.69 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   0:00.02 ksoftirqd/0
10 root     20   0      0      0      0 I   0,0   0,0   0:00.94 rcu_sched
11 root     rt    0      0      0      0 S   0,0   0,0   0:00.00 migration/0
12 root    -51   0      0      0      0 S   0,0   0,0   0:00.00 idle_inject/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    -51   0      0      0      0 S   0,0   0,0   0:00.00 idle_inject/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   0:00.03 ksoftirqd/1
19 root     20   0      0      0      0 I   0,0   0,0   0:00.00 kworker/1:0-cgr
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    -51   0      0      0      0 S   0,0   0,0   0:00.00 idle_inject/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   0:00.04 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    -51   0      0      0      0 S   0,0   0,0   0:00.00 idle_inject/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   0:00.03 ksoftirqd/3
32 root      0 -20      0      0      0 I   0,0   0,0   0:00.00 kworker/3:0H-kb
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
37 root     20   0      0      0      0 S   0,0   0,0   0:00.00 khungtaskd
38 root     20   0      0      0      0 S   0,0   0,0   0:00.00 oom_reaper
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
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1 root 20 0 225260 9388 7092 S 0,0 0,2 0:01.69 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 0:00.02 ksoftirqd/0
10 root 20 0 0 0 0 I 0,0 0,0 0:00.94 rcu_sched
11 root rt 0 0 0 0 S 0,0 0,0 0:00.00 migration/0
12 root -51 0 0 0 0 S 0,0 0,0 0:00.00 idle_inject/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 -51 0 0 0 0 S 0,0 0,0 0:00.00 idle_inject/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 0:00.03 ksoftirqd/1
19 root 20 0 0 0 0 I 0,0 0,0 0:00.00 kworker/1:0-cgr
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 -51 0 0 0 0 S 0,0 0,0 0:00.00 idle_inject/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 0:00.04 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 -51 0 0 0 0 S 0,0 0,0 0:00.00 idle_inject/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 0:00.03 ksoftirqd/3
32 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/3:0H-kb
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
37 root 20 0 0 0 0 S 0,0 0,0 0:00.00 khungtaskd
38 root 20 0 0 0 0 S 0,0 0,0 0:00.00 oom_reaper
39 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 writeback
40 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kcompactd0

root@kayonpc6:/home/kayon-pc6# echo $SHELL
/bin/bash
root@kayonpc6:/home/kayon-pc6# echo {con,pre}{sent,fer}{s,ed}
con pre sent fer s ed
root@kayonpc6:/home/kayon-pc6# man ls
root@kayonpc6:/home/kayon-pc6# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc6:/home/kayon-pc6# man ls
root@kayonpc6:/home/kayon-pc6#
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
File Edit View Terminal Tabs Help

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 of file status information); 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

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

```
Terminal - root@kayonpc6: /home/kayon-pc6
File Edit View Terminal Tabs Help

1 root      20      0      225260  9388  7092 S  0,0 0,2 0:01.69 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 0:00.02 ksoftirqd/0
10 root     20      0      0      0      0 I  0,0 0,0 0:00.94 rcu_sched
11 root     rt      0      0      0      0 S  0,0 0,0 0:00.00 migration/0
12 root    -51      0      0      0      0 S  0,0 0,0 0:00.00 idle_inject/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    -51      0      0      0      0 S  0,0 0,0 0:00.00 idle_inject/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 0:00.03 ksoftirqd/1
19 root     20      0      0      0      0 I  0,0 0,0 0:00.00 kworker/1:0-cgr
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    -51      0      0      0      0 S  0,0 0,0 0:00.00 idle_inject/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 0:00.04 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    -51      0      0      0      0 S  0,0 0,0 0:00.00 idle_inject/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 0:00.03 ksoftirqd/3
32 root     0 -20     0      0      0 I  0,0 0,0 0:00.00 kworker/3:0H-kb
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
37 root     20      0      0      0      0 S  0,0 0,0 0:00.00 khungtaskd
38 root     20      0      0      0      0 S  0,0 0,0 0:00.00 oom_reaper
39 root     0 -20     0      0      0 I  0,0 0,0 0:00.00 writeback
40 root     20      0      0      0      0 S  0,0 0,0 0:00.00 kcompactd0

root@kayonpc6:/home/kayon-pc6# echo $SHELL
/bin/bash
root@kayonpc6:/home/kayon-pc6# echo {con,pre}{sent,fer}{s,ed}
con pre sent fer s ed
root@kayonpc6:/home/kayon-pc6# man ls
root@kayonpc6:/home/kayon-pc6# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc6:/home/kayon-pc6# man ls
root@kayonpc6:/home/kayon-pc6# man who
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
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

  -m
    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

Manual page who(1) line 1 (press h for help or q to quit)
```



```
Terminal - root@kayonpc6: /home/kayon-pc6
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root@kayonpc6:/home/kayon-pc6# cal 9 1752
September 1752
Mi Se Se Ra Ka Ju Sa
      1  2 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

root@kayonpc6:/home/kayon-pc6# cal 10 2007
Oktober 2007
Mi Se Se Ra Ka Ju Sa
      1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

root@kayonpc6:/home/kayon-pc6# bc -l
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type `warranty'.
quit
root@kayonpc6:/home/kayon-pc6# echo 5+4 | bc -l
9
root@kayonpc6:/home/kayon-pc6# pwd
/home/kayon-pc6
root@kayonpc6:/home/kayon-pc6# 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
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
File Edit View Terminal Tabs Help
800 cat /proc/cpuinfo
801 finger root
802 reboot
803 echo halo dunia
804 date
805 hostname
806 arch
807 uname -a
808 dmesg | more
809 uptime
810 whoami
811 who
812 id
813 last
814 finger
815 apt install finger
816 w
817 top
818 echo $SHELL
819 echo {con,pre} {sent,fer} {s,ed}
820 man ls
821 echo {con,pre}{sent,fer}{s,ed}
822 man ls
823 man who
824 who can tell me about linux
825 last
826 fdisk -l
827 fdisk -l
828 users
829 cat/etc/fstab
830 cat /etc/fstab
831 cal 2000
832 cal 9 1752
833 cal 10 2007
834 bc -l
835 echo 5+4 | bc -l
836 yes please
837 cal 9 1752
838 cal 10 2007
839 bc -l
840 echo 5+4 | bc -l
841 pwd
842 history
root@kayonpc6:/home/kayon-pc6# tail -f /var/log/message
```



```
Terminal - root@kayonpc6: /home/kayon-pc6
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r8169      81920  0
libahci    32768  1 ahci
realtek    20480  0
video      49152  2 asus_wmi,nouveau
root@kayonpc6:/home/kayon-pc6# ps -axu
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.2 225260 9388 ?        Ss   16:36   0:01 /lib/systemd/systemd --system --deserialize 41
root         2  0.0  0.0      0  0 ?        S    16:36   0:00 [kthreadd]
root         3  0.0  0.0      0  0 ?        I<   16:36   0:00 [rcu_gp]
root         4  0.0  0.0      0  0 ?        I<   16:36   0:00 [rcu_par_gp]
root         6  0.0  0.0      0  0 ?        I<   16:36   0:00 [kworker/0:0H-kb]
root         8  0.0  0.0      0  0 ?        I<   16:36   0:00 [mm_percpu_wq]
root         9  0.0  0.0      0  0 ?        S    16:36   0:00 [ksoftirqd/0]
root        10  0.0  0.0      0  0 ?        I    16:36   0:01 [rcu_sched]
root        11  0.0  0.0      0  0 ?        S    16:36   0:00 [migration/0]
root        12  0.0  0.0      0  0 ?        S    16:36   0:00 [idle_inject/0]
root        14  0.0  0.0      0  0 ?        S    16:36   0:00 [cpuhp/0]
root        15  0.0  0.0      0  0 ?        S    16:36   0:00 [cpuhp/1]
root        16  0.0  0.0      0  0 ?        S    16:36   0:00 [idle_inject/1]
root        17  0.0  0.0      0  0 ?        S    16:36   0:00 [migration/1]
root        18  0.0  0.0      0  0 ?        S    16:36   0:00 [ksoftirqd/1]
root        19  0.0  0.0      0  0 ?        I    16:36   0:00 [kworker/1:0-cgr]
root        20  0.0  0.0      0  0 ?        I<   16:36   0:00 [kworker/1:0H-kb]
root        21  0.0  0.0      0  0 ?        S    16:36   0:00 [cpuhp/2]
root        22  0.0  0.0      0  0 ?        S    16:36   0:00 [idle_inject/2]
root        23  0.0  0.0      0  0 ?        S    16:36   0:00 [migration/2]
root        24  0.0  0.0      0  0 ?        S    16:36   0:00 [ksoftirqd/2]
root        26  0.0  0.0      0  0 ?        I<   16:36   0:00 [kworker/2:0H-kb]
root        27  0.0  0.0      0  0 ?        S    16:36   0:00 [cpuhp/3]
root        28  0.0  0.0      0  0 ?        S    16:36   0:00 [idle_inject/3]
root        29  0.0  0.0      0  0 ?        S    16:36   0:00 [migration/3]
root        30  0.0  0.0      0  0 ?        S    16:36   0:00 [ksoftirqd/3]
root        32  0.0  0.0      0  0 ?        I<   16:36   0:00 [kworker/3:0H-kb]
root        33  0.0  0.0      0  0 ?        S    16:36   0:00 [kdevtmpfs]
root        34  0.0  0.0      0  0 ?        I<   16:36   0:00 [netns]
root        35  0.0  0.0      0  0 ?        S    16:36   0:00 [rcu_tasks_kthre]
root        36  0.0  0.0      0  0 ?        S    16:36   0:00 [kauditd]
root        37  0.0  0.0      0  0 ?        S    16:36   0:00 [khungtaskd]
root        38  0.0  0.0      0  0 ?        S    16:36   0:00 [oom_reaper]
root        39  0.0  0.0      0  0 ?        I<   16:36   0:00 [writeback]
root        40  0.0  0.0      0  0 ?        S    16:36   0:00 [kcompactd0]
root        41  0.0  0.0      0  0 ?        SN   16:36   0:00 [ksmd]
root        42  0.0  0.0      0  0 ?        SN   16:36   0:00 [khugepaged]
root        43  0.0  0.0      0  0 ?        I<   16:36   0:00 [crypto]
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
File Edit View Terminal Tabs Help

root 26007 0.0 0.3 94824 12252 ? S<s 16:43 0:00 /lib/systemd/systemd-journald
root@kayonpc6:/home/kayon-pc6# lspci
00:00.0 Host bridge: Intel Corporation 4th Gen Core Processor DRAM Controller (rev 06)
00:01.0 PCI bridge: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor PCI Express x16 Controller (rev 06)
00:14.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB xHCI (rev 05)
00:16.0 Communication controller: Intel Corporation 8 Series/C220 Series Chipset Family MEI Controller #1 (rev 04)
00:1a.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB EHCI #2 (rev 05)
00:1b.0 Audio device: Intel Corporation 8 Series/C220 Series Chipset High Definition Audio Controller (rev 05)
00:1c.0 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #1 (rev d5)
00:1c.2 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (rev d5)
00:1c.5 PCI bridge: Intel Corporation 82801 PCI Bridge (rev d5)
00:1d.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB EHCI #1 (rev 05)
00:1f.0 ISA bridge: Intel Corporation H81 Express LPC Controller (rev 05)
00:1f.2 SATA controller: Intel Corporation 8 Series/C220 Series Chipset Family 6-port SATA Controller 1 [AHCI mode] (rev 05)
00:1f.3 SMBus: Intel Corporation 8 Series/C220 Series Chipset Family SMBus Controller (rev 05)
01:00.0 VGA compatible controller: NVIDIA Corporation GM107 [GeForce GTX 750 Ti] (rev a2)
01:00.1 Audio device: NVIDIA Corporation Device 0fbc (rev a1)
03:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc6:/home/kayon-pc6# free
              total        used        free      shared  buff/cache   available
Mem:      3975000      536928      1127036       13416       2311036      3133364
Swap:      902668           0       902668

root@kayonpc6:/home/kayon-pc6# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping       : 3
microcode     : 0x27
cpu MHz        : 798.165
cache size     : 6144 KB
physical id    : 0
siblings       : 4
core id        : 0
cpu cores      : 4
apicid         : 0
initial apicid : 0
fpu            : yes
fpu_exception  : yes
cpuid level    : 13
wp             : yes
flags          : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb
```



```
Terminal - root@kayonpc6: /home/kayon-pc6
File Edit View Terminal Tabs Help

root@kayonpc6:/home/kayon-pc6# finger root
Login: root                               Name: root
Directory: /root                          Shell: /bin/bash
Never logged in.
No mail.
No Plan.

root@kayonpc6:/home/kayon-pc6# ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
root@kayonpc6:/home/kayon-pc6# ls -l
total 32
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Okt  9 16:54 Desktop
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Okt  8 15:43 Documents
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Sep  4 09:33 Downloads
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Sep  4 09:33 Music
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Sep  4 09:33 Pictures
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Sep  4 09:33 Public
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Sep  4 09:33 Templates
drwxr-xr-x 2 kayon-pc6 kayon-pc6 4096 Sep  4 09:33 Videos
root@kayonpc6:/home/kayon-pc6# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc6:/home/kayon-pc6# whatis ls
ls (1)                - list directory contents
root@kayonpc6:/home/kayon-pc6# whatis mkdir
mkdir (1)              - make directories
mkdir (2)              - create a directory
root@kayonpc6:/home/kayon-pc6# mkdir informatika
root@kayonpc6:/home/kayon-pc6# rmdir informatika
root@kayonpc6:/home/kayon-pc6# touch rpl.txt
root@kayonpc6:/home/kayon-pc6# rm rpl.txt
root@kayonpc6:/home/kayon-pc6# which mkdir
/bin/mkdir
root@kayonpc6:/home/kayon-pc6# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc6:/home/kayon-pc6# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev             1951016         0   1951016   0% /dev
tmpfs            397500      1364    396136   1% /run
/dev/sda3       19091540  7670048  10428624  43% /
tmpfs           1987500         0   1987500   0% /dev/loop
tmpfs             5120         4      5116   1% /run/lock
tmpfs           1987500         0   1987500   0% /sys/fs/cgroup
tmpfs           397500      12      397488   1% /run/user/1000
root@kayonpc6:/home/kayon-pc6# du
```

```
Terminal - root@kayonpc6: /home/kayon-pc6
File Edit View Terminal Tabs Help

4      ./cache/mozilla/firefox/0zdc4nky.default-release/cache2/doomed
48172  ./cache/mozilla/firefox/0zdc4nky.default-release/cache2
76256  ./cache/mozilla/firefox/0zdc4nky.default-release
76264  ./cache/mozilla/firefox
76268  ./cache/mozilla
8      ./cache/sessions/thumbs-kayonpc6:0
20     ./cache/sessions
78848  ./cache
100628 .

root@kayonpc6:/home/kayon-pc6# free
              total        used        free      shared  buff/cache   available
Mem:        3975000         545772      1108088        14276      2321140      3123652
Swap:        902668           0         902668

root@kayonpc6:/home/kayon-pc6# pstree
systemd--ModemManager--2*[{ModemManager}]
--NetworkManager--dhclient
--2*[{NetworkManager}]
--Thunar--2*[{Thunar}]
--accounts-daemon--2*[{accounts-daemon}]
--acpid
--avahi-daemon--avahi-daemon
--cron
--cups-browsed--2*[{cups-browsed}]
--cupsd
--dbus-daemon
--exo-helper-1--xfce4-terminal--bash--sudo--su--bash--pstree
--2*[{xfce4-terminal}]
--gnome-keyring-d--3*[{gnome-keyring-d}]
--irqbalance--irqbalance
--2*[{kerneloops}]
--lightdm--Xorg--2*[{Xorg}]
--lightdm--sh--ssh-agent
--xfce4-session--aplet.py--(aplet.py)
--blueman-applet--3*[{blueman-applet}]
--light-locker--3*[{light-locker}]
--nm-applet--3*[{nm-applet}]
--polkit-gnome-au--2*[{polkit-gnome-au}]
--update-notifier--3*[{update-notifier}]
--2*[{xfce4-session}]
--2*[{lightdm}]
--lvmetad
--networkd-dispat--(networkd-dispat)
--packagekitd--2*[{packagekitd}]
```