

MODUL 6

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
kayon-pc8@kayonpc8:~$ sudo su
[sudo] password for kayon-pc8:
Sorry, try again.
[sudo] password for kayon-pc8:
root@kayonpc8: /home/kayon-pc8# echo halo dunia
halo dunia
root@kayonpc8: /home/kayon-pc8# date
Rab Okt  9 16:39:36 WIB 2019
root@kayonpc8: /home/kayon-pc8# hostname
kayonpc8
root@kayonpc8: /home/kayon-pc8# arch
x86_64
root@kayonpc8: /home/kayon-pc8# uname -a
Linux kayonpc8 4.18.0-22-generic #23-18.04.1-Ubuntu SMP Thu Jun 6 08:37:25 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayonpc8: /home/kayon-pc8# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[ 0.000000] Linux version 4.18.0-22-generic (build@lgw01-amd64-033) (gcc version 7.3.0 (Ubuntu 7.3.0-16ubuntu3)) #23-18.04.1-Ubuntu SMP Thu Jun 6 08:37:25 UTC 2019 (Ubuntu 4.18.0-22.23-18.04.1-generic 4.18.20)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-4.18.0-22-generic root=UUID=41d0f721-53c3-4ae9-9d36-0727bc4e87e6 ro quiet splash vt.handoff=1
[ 0.000000] KERNEL supported cpus:
[ 0.000000] Intel GenuineIntel
[ 0.000000] AMD AuthenticAMD
[ 0.000000] Centaur CentaurHauls
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
[ 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:
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
[ 0.000000] BIOS-e820: [mem 0x000000000000e000-0x000000000000ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000010000-0x000000000000b0f6fff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000000b0f7000-0x000000000000b0fdfff] ACPI NVS
[ 0.000000] BIOS-e820: [mem 0x000000000000b0fe000-0x000000000000b54efff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000000b54f000-0x000000000000b981fff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000000b982000-0x000000000000dd7c7fff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000000dd7c8000-0x000000000000dd9d0fff] reserved
root@kayonpc8: /home/kayon-pc8# uptime
16:49:05 up 16 min, 1 user, load average: 1.00, 0.99, 0.72
root@kayonpc8: /home/kayon-pc8# whoami
root
root@kayonpc8: /home/kayon-pc8# who
kayon-pc8 tty7          2019-10-09 23:33 (:0)
root@kayonpc8: /home/kayon-pc8# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc8: /home/kayon-pc8# last
kayon-pc tty7          :0                Wed Oct  9 23:33    gone - no logout
reboot system boot    4.18.0-22-generi Wed Oct  9 23:32    still running
kayon-pc tty7          :0                Tue Oct  8 16:44 - 17:35 (00:51)
reboot system boot    4.18.0-22-generi Tue Oct  8 16:43 - 17:35 (00:51)
kayon-pc tty7          :0                Tue Oct  8 16:42 - 16:42 (00:00)
reboot system boot    4.18.0-22-generi Tue Oct  8 16:41 - 16:42 (00:00)

wtmp begins Tue Oct  8 16:39:10 2019
root@kayonpc8: /home/kayon-pc8# finger
Login Name Tty Idle Login Time Office Office Phone
kayon-pc8 kayon-pc8 tty7 Oct  9 23:33 (:0)
root@kayonpc8: /home/kayon-pc8# w
16:50:28 up 17 min, 1 user, load average: 1.05, 1.01, 0.76
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
kayon-pc tty7 :0 23:33 ? 1.58s 0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc
root@kayonpc8: /home/kayon-pc8#
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
16:50:28 up 17 min, 1 user, load average: 1,05, 1,01, 0,76
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
kayon-pc  tty7     :0            23:33    ?      1.58s  0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc
root@kayonpc8:/home/kayon-pc8# top

top - 16:55:45 up 22 min, 1 user, load average: 1,08, 1,04, 0,86
Tasks: 184 total, 2 running, 135 sleeping, 0 stopped, 0 zombie
%Cpu(s):  0,1 us, 1,7 sy, 23,2 ni, 74,9 id,  0,0 wa,  0,0 hi,  0,1 si,  0,0 st
KiB Mem : 8106424 total, 6418436 free, 511276 used, 1176712 buff/cache
KiB Swap: 902700 total, 902700 free,  0 used. 7316088 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR S %CPU  %MEM    TIME+  COMMAND
 1499 root        39   19 227972 116548 71092 R 100,0  1,4   22:22.02  unattended-upgr
 2863 root        20    0 51652  4096  3440 R  0,3  0,1    0:00.01  top
    1 root        20    0 225344  9292  6832 S  0,0  0,1    0:01.48  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    0:00.00  ksoftirqd/0
   10 root        20    0      0     0     0 I  0,0  0,0    0:00.11  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    0:00.00  ksoftirqd/1
   19 root        20    0      0     0     0 I  0,0  0,0    0:00.03  kworker/1:0-mm_
   20 root        0 -20    0     0     0 I  0,0  0,0    0:00.00  kworker/1:0H-kb
```

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Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
    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    0:00.00  ksoftirqd/0
   10 root        20    0      0     0     0 I  0,0  0,0    0:00.11  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    0:00.00  ksoftirqd/1
   19 root        20    0      0     0     0 I  0,0  0,0    0:00.03  kworker/1:0-mm_
   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    0:00.01  ksoftirqd/2
   25 root        20    0      0     0     0 I  0,0  0,0    0:00.01  kworker/2:0-mm_
root@kayonpc8:/home/kayon-pc8# echo $SHELL
/bin/bash
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# eecho {con,pre} {sent,fer} {s,ed}
eecho: command not found
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc8:/home/kayon-pc8# manls
manls: command not found
root@kayonpc8:/home/kayon-pc8# man ls
root@kayonpc8:/home/kayon-pc8#
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
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 -cftu-
  vsux 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 directories ending in ~ or .bak

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

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
 9 root    20  0    0    0    0 S  0,0  0,0  0:00.00 ksoftirqd/0
10 root    20  0    0    0    0 I  0,0  0,0  0:00.11 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  0:00.00 ksoftirqd/1
19 root    20  0    0    0    0 I  0,0  0,0  0:00.03 kworker/1:0-mm_
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  0:00.01 ksoftirqd/2
25 root    20  0    0    0    0 I  0,0  0,0  0:00.01 kworker/2:0-mm_
root@kayonpc8:/home/kayon-pc8# echo $SHELL
/bin/bash
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# ececho {con,pre} {sent,fer} {s,ed}
ececho: command not found
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc8:/home/kayon-pc8# man ls
man ls: command not found
root@kayonpc8:/home/kayon-pc8# man ls
root@kayonpc8:/home/kayon-pc8# man who
root@kayonpc8:/home/kayon-pc8#
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
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
Manual page who(1) line 1 (press h for help or q to quit)
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
root@kayonpc8:/home/kayon-pc8# man who
root@kayonpc8:/home/kayon-pc8# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc8:/home/kayon-pc8# last
kayon-pc tty7 :0 Wed Oct 9 23:33 gone - no logout
reboot system boot 4.18.0-22-generi Wed Oct 9 23:32 still running
kayon-pc tty7 :0 Tue Oct 8 16:44 - 17:35 (00:51)
reboot system boot 4.18.0-22-generi Tue Oct 8 16:43 - 17:35 (00:51)
kayon-pc tty7 :0 Tue Oct 8 16:42 - 16:42 (00:00)
reboot system boot 4.18.0-22-generi Tue Oct 8 16:41 - 16:42 (00:00)

wtmp begins Tue Oct 8 16:39:10 2019
root@kayonpc8:/home/kayon-pc8# fdisk -l
fdisk: invalid option -- 'l'
Try 'fdisk --help' for more information.
root@kayonpc8:/home/kayon-pc8# fdisk-l
fdisk-l: command not found
root@kayonpc8:/home/kayon-pc8# fdisk -l
Disk /dev/sda: 465.8 GiB, 500107862016 bytes, 976773168 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: 0x80e875a7

Device Boot Start End Sectors Size Id Type
/dev/sda1 * 2048 206847 204800 100M 7 HPFS/NTFS/exFAT
/dev/sda2 206848 417794047 417587200 199,1G 7 HPFS/NTFS/exFAT
/dev/sda3 417796094 456855551 39059458 18,6G 5 Extended
/dev/sda5 417796096 456855551 39059456 18,6G 83 Linux
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

root@kayonpc8:/home/kayon-pc8# users
kayon-pc8
root@kayonpc8:/home/kayon-pc8# 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/sda5 during installation
UUID=41d0f721-53c3-4ae9-9d36-0727bc4e87e6 /      ext4    errors=remount-ro 0      1
/swapfile                                none    swap     sw       0      0
root@kayonpc8:/home/kayon-pc8# cal 2000
      2000
      Januari          Februari          Maret
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se 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 Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se 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
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

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@kayonpc8:/home/kayon-pc8# 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@kayonpc8:/home/kayon-pc8# 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@kayonpc8:/home/kayon-pc8# 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@kayonpc8:/home/kayon-pc8# echo 5+4 | bc -l
9
root@kayonpc8:/home/kayon-pc8#
```



```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
824 pwd
825 history
root@kayonpc8:/home/kayon-pc8#
root@kayonpc8:/home/kayon-pc8# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc8:/home/kayon-pc8# lsmod
Module                Size  Used by
joydev                24576  0
input_leds            16384  0
snd_hda_codec_hdmi    49152  1
nvidia_uvm            815104  0
eeepc_wmi             16384  0
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          81920  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
snd_hwdep             20480  1 snd_hda_codec
snd_pcm               98304  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
snd_seq_midi          16384  0
snd_seq_midi_event    16384  1 snd_seq_midi
snd_rawmidi           32768  1 snd_seq_midi
intel_rapl            20480  0
x86_pkg_temp_thermal 16384  0
intel_powerclamp      16384  0
coretemp              16384  0
snd_seq               65536  2 snd_seq_midi,snd_seq_midi_event
kvm_intel             208896  0
wmi_bmof              16384  0
kvm                   626688  1 kvm_intel
snd_seq_device        16384  3 snd_seq,snd_seq_midi,snd_rawmidi
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
ipmi_msghandler       102400  2 ipmi_devintf,nvidia
video                 45056  1 asus_wmi
root@kayonpc8:/home/kayon-pc8# ps -axu
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1 225344 9292 ?        Ss   16:32   0:01 /sbin/init splash
root         2  0.0  0.0      0     0 ?        S    16:32   0:00 [kthreadd]
root         3  0.0  0.0      0     0 ?        I<   16:32   0:00 [rcu_gp]
root         4  0.0  0.0      0     0 ?        I<   16:32   0:00 [rcu_par_gp]
root         6  0.0  0.0      0     0 ?        I<   16:32   0:00 [kworker/0:0H-kb]
root         8  0.0  0.0      0     0 ?        I<   16:32   0:00 [mm_percpu_wq]
root         9  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/0]
root        10  0.0  0.0      0     0 ?        I    16:32   0:00 [rcu_sched]
root        11  0.0  0.0      0     0 ?        I    16:32   0:00 [rcu_bh]
root        12  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/0]
root        13  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/0]
root        14  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/0]
root        15  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/1]
root        16  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/1]
root        17  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/1]
root        18  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/1]
root        19  0.0  0.0      0     0 ?        I    16:32   0:00 [kworker/1:0-mm_]
root        20  0.0  0.0      0     0 ?        I<   16:32   0:00 [kworker/1:0H-kb]
root        21  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/2]
root        22  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/2]
root        23  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/2]
root        24  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/2]
root        25  0.0  0.0      0     0 ?        I    16:32   0:00 [kworker/2:0-mm_]
root        26  0.0  0.0      0     0 ?        I<   16:32   0:00 [kworker/2:0H-kb]
root        27  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/3]
root        28  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/3]
root        29  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/3]
root        30  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/3]
```



```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

root@kayonpc8:/home/kayon-pc8# 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@kayonpc8:/home/kayon-pc8# free
              total        used        free      shared  buff/cache   available
Mem:           8106424       551656       6367408        12892       1187360       7275348
Swap:          902700           0         902700
root@kayonpc8:/home/kayon-pc8# 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        : 3670.712
cache size     : 6144 KB
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

power management:

root@kayonpc8:/home/kayon-pc8# finger root
Login: root                                Name: root
Directory: /root                          Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayonpc8:/home/kayon-pc8# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc8:/home/kayon-pc8# ls -l
total 32
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Desktop
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Documents
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Downloads
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Music
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Pictures
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Public
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Templates
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Videos
root@kayonpc8:/home/kayon-pc8# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc8:/home/kayon-pc8# whatis ls
ls (1)                - list directory contents
root@kayonpc8:/home/kayon-pc8# whatis mkdir
mkdir (1)              - make directories
mkdir (2)              - create a directory
root@kayonpc8:/home/kayon-pc8# mkdir informatika
root@kayonpc8:/home/kayon-pc8# rmdir informatika
root@kayonpc8:/home/kayon-pc8# touch rpl.txt
root@kayonpc8:/home/kayon-pc8# rm rpl.txt
```



```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
root@kayonpc8:/home/kayon-pc8# which mkdir
/bin/mkdir
root@kayonpc8:/home/kayon-pc8# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc8:/home/kayon-pc8# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4012956      0   4012956   0% /dev
tmpfs           810644      1348    809296   1% /run
/dev/sda5       19092136 8583180   9516088  48% /
tmpfs           4053212      0   4053212   0% /dev/shm
tmpfs           5120         4      5116    1% /run/lock
tmpfs           4053212      0   4053212   0% /sys/fs/cgroup
tmpfs           810640      16    810624   1% /run/user/1000
root@kayonpc8:/home/kayon-pc8# du
4      ./Desktop
4      ../local/share/inxi
4      ../local/share/ristretto
8      ../local/share/PacketTracer7/LocalStorage
36     ../local/share/PacketTracer7
8      ../local/share/applications
4      ../local/share/xfpanel-switch
4      ../local/share/nano
552    ../local/share/NetacadExamPlayer/QtWebEngine/Default/GPUCache
556    ../local/share/NetacadExamPlayer/QtWebEngine/Default
560    ../local/share/NetacadExamPlayer/QtWebEngine
564    ../local/share/NetacadExamPlayer
12     ../local/share/keyrings
644    ../local/share
648    ../local
1508   ../config/libreoffice/4/user/backup
4      ../config/libreoffice/4/user/uno_packages/cache/uno_packages
4      ../config/libreoffice/4/user/uno_packages/cache/registry/com.sun.star.comp.deployment.bundle.PackageRegistryBackend
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
4      ./Music
75336  .
root@kayonpc8:/home/kayon-pc8# free
              total        used        free      shared  buff/cache   available
Mem:      8106424      558520      6357924       13020      1189980      7267796
Swap:      902700           0       902700
root@kayonpc8:/home/kayon-pc8# pstree
systemd--ModemManager--2*[{ModemManager}]
      |--NetworkManager--dhcclient
      |                   2*[{NetworkManager}]
      |--Thunar
      |--accounts-daemon--2*[{accounts-daemon}]
      |--acpid
      |--apt.systemd.dai--apt.systemd.dai--unattended-upgr
      |--avahi-daemon--avahi-daemon
      |--cron
      |--cups-browsed--2*[{cups-browsed}]
      |--cupsd
      |--dbus-daemon
      |--gnome-keyring-d--3*[{gnome-keyring-d}]
      |--irqbalance--{irqbalance}
      |--2*[{kerneloops}]
      |--lightdm--Xorg--{Xorg}
      |           |--lightdm--sh--ssh-agent
      |           |       |--xfce4-session--applet.py--{applet.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}]
```