	Nilai
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MODUL 7

```
kayon-p+  2161  0.9  0.6 600808  52308 ?        Sl   08:36   0:16 /usr/bin/xfce4-
kayon-p+  2165  0.0  0.0  30032   4800 pts/0    Ss   08:36   0:00 bash
www-data  2268  0.0  0.1 490104  15144 ?        S    08:39   0:00 /usr/sbin/apach
www-data  2269  0.0  0.1 490104  15144 ?        S    08:39   0:00 /usr/sbin/apach
www-data  2270  0.0  0.1 490104  15144 ?        S    08:39   0:00 /usr/sbin/apach
www-data  2271  0.0  0.1 490104  15144 ?        S    08:39   0:00 /usr/sbin/apach
www-data  2272  0.0  0.1 490104  15144 ?        S    08:39   0:00 /usr/sbin/apach
root      2277  0.0  0.0      0      0 ?        I    08:39   0:00 [kworker/2:2-rc
root      2281  0.0  0.1 108148   8124 ?        Ss   08:39   0:00 /usr/sbin/cupsd
root      2282  0.0  0.1 303520  11056 ?        Ssl  08:39   0:00 /usr/sbin/cups-
root      2358  0.0  0.0  73424   4524 pts/0    S    08:44   0:00 sudo su
root      2359  0.0  0.0  72712   3996 pts/0    S    08:44   0:00 su
root      2360  0.0  0.0  30084   5088 pts/0    S    08:44   0:00 bash
root      2385  0.0  0.0      0      0 ?        I    08:49   0:00 [kworker/1:0-cg
root      2388  0.1  0.0      0      0 ?        I    08:49   0:01 [kworker/u8:2-e
root      2449  0.0  0.0      0      0 ?        I    08:55   0:00 [kworker/u8:0-e
kayon-p+  2450  0.5  2.0 1203684 164680 ?       SLl  08:55   0:03 gnome-software
root      2492  0.0  0.6 584856  50600 ?        Ssl  08:55   0:00 /usr/lib/fwupd/
root      2518  0.0  0.0      0      0 ?        I    08:55   0:00 [kworker/0:1-cg
root      2815  0.2  0.0      0      0 ?        I    09:00   0:00 [kworker/u8:1-e
root      2825  0.0  0.0      0      0 ?        I    09:01   0:00 [kworker/1:2-cg
root      2844  0.5  0.0      0      0 ?        I    09:02   0:01 [kworker/u8:3-e
root      2864  0.0  0.0  47236   3828 pts/0    R+   09:06   0:00 ps -axu
root@kayon-pc9:/home/kayon-pc9#
```

```
1979  pwd
1980  history
root@kayon-pc9:/home/kayon-pc9# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayon-pc9:/home/kayon-pc9# Ismod

Command 'Ismod' not found, did you mean:

  command 'lsmod' from deb kmod

Try: apt install <deb name>

root@kayon-pc9:/home/kayon-pc9# ps -axu
USER      PID  %CPU %MEM    VSZ    RSS TTY      STAT START   TIME COMMAND
root        1  0.0  0.1 159848   9100 ?        Ss   08:33   0:01 /sbin/init spla
root        2  0.0  0.0      0      0 ?        S    08:33   0:00 [kthreadd]
root        3  0.0  0.0      0      0 ?        I<   08:33   0:00 [rcu_gp]
root        4  0.0  0.0      0      0 ?        I<   08:33   0:00 [rcu_par_gp]
root        6  0.0  0.0      0      0 ?        I<   08:33   0:00 [kworker/0:0H-k
root        8  0.0  0.0      0      0 ?        I<   08:33   0:00 [mm_percpu_wq]
root        9  0.0  0.0      0      0 ?        S    08:33   0:00 [ksoftirqd/0]
root       10  0.0  0.0      0      0 ?        I    08:33   0:00 [rcu_sched]
root       11  0.0  0.0      0      0 ?        S    08:33   0:00 [migration/0]
root       12  0.0  0.0      0      0 ?        S    08:33   0:00 [idle_inject/0
```

```
Terminal - root@kayon-pc9: /home/kayon-pc9

File   Edit   View   Terminal   Tabs   Help

1958   id
1959   last
1960   finger
1961   w
1962   top
1963   echo $SHELL
1964   echo {con,pre}{sent,fer}{s,ed}
1965   man ls
1966   man who
1967   who can tell me about linux
1968   last
1969   fdisk -1
1970   users
1971   cat /etc/fstab
1972   cal 2000
1973   cal 9 1752
1974   cal 10 2007
1975   bc -1
1976   quit
1977   echo 5+4 | bc -1
1978   yes please
1979   pwd
1980   history
root@kayon-pc9:/home/kayon-pc9#
```

```
Terminal - root@kayon-pc9: /home/kayon-pc9

File   Edit   View   Terminal   Tabs   Help

                                        31
root@kayon-pc9:/home/kayon-pc9# 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@kayon-pc9:/home/kayon-pc9# 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
-pc9:/home/kayon-pc9# exit
root@kayon-pc9:/home/kayon-pc9# bc -1
bc: invalid option -- '1'
usage: bc [options] [file ...]
  -h  --help         print this usage and exit
  -i  --interactive  force interactive mode
```

```
-ro 0        1
root@kayon-pc9:/home/kayon-pc9# 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
30
        Juli                 Agustus              September
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
```

```
root@kayon-pc9:/home/kayon-pc9# man who
root@kayon-pc9:/home/kayon-pc9# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc9:/home/kayon-pc9# last

wtmp begins Tue Oct 11 08:39:04 2022
root@kayon-pc9:/home/kayon-pc9# fdisk -1
fdisk: invalid option -- '1'
Try 'fdisk --help' for more information.
root@kayon-pc9:/home/kayon-pc9# users
kayon-pc9
root@kayon-pc9:/home/kayon-pc9# 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/sda3 during installation
UUID=bdff658e-f13f-4f6d-8807-ee2fd7bc969a /              ext4    errors=remount
-ro 0        1
root@kayon-pc9:/home/kayon-pc9#
```

```
 2161 kayon-p+  20    0  546684   43336   25940 S   0,8  0,5   0:01.05 xfce4-term+
 2387 root      20    0   51648    4092    3436 R   0,8  0,1   0:00.23 top
    1 root      20    0  159848    9100    6740 S   0,0  0,1   0:01.20 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:+
    8 root       0  -20       0       0       0 I   0,0  0,0   0:00.00 mm_percpu_+
    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   0:00.31 rcu_sched
   11 root      20    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_injec+
   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_injec+
   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
root@kayon-pc9:/home/kayon-pc9# echo $SHELL
/bin/bash
root@kayon-pc9:/home/kayon-pc9# exit
root@kayon-pc9:/home/kayon-pc9# echo {con,pre}{sent,fer}{s,ed}
consents consented confers confered presents presented prefers prefered
root@kayon-pc9:/home/kayon-pc9# man ls
root@kayon-pc9:/home/kayon-pc9# man who
root@kayon-pc9:/home/kayon-pc9#
```

```
root@kayon-pc9:/home/kayon-pc9# who
kayon-pc9 tty7         2022-10-11 08:34 (:0)
root@kayon-pc9:/home/kayon-pc9# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc9:/home/kayon-pc9# last

wtmp begins Tue Oct 11 08:39:04 2022
root@kayon-pc9:/home/kayon-pc9# finger
Login     Name         Tty      Idle  Login Time   Office     Office Phone
kayon-pc9 kayon-pc9    tty7     24d   Oct 11 08:34 (:0)
root@kayon-pc9:/home/kayon-pc9# w
 08:49:19 up 15 min,  1 user,  load average: 0,00, 0,03, 0,07
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
kayon-pc tty7     :0               08:34   24days  5.31s  0.01s /bin/sh /etc/xd
root@kayon-pc9:/home/kayon-pc9# top
top - 08:50:23 up 17 min,  1 user,  load average: 0,00, 0,02, 0,07
Tasks: 186 total,   1 running, 137 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0,2 us,  0,2 sy,  0,0 ni, 99,6 id,  0,0 wa,  0,0 hi,  0,0 si,  0,0 st
KiB Mem :  8103668 total,  6648432 free,   493020 used,   962216 buff/cache
KiB Swap:        0 total,        0 free,        0 used.  7325488 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
 2161 kayon-p+  20   0  546684  43336  25940 S   0,8  0,5   0:01.05 xfce4-term+
```

File Edit View Terminal Tabs Help

```
=bdff658e-f13f-4f6d-8807-ee2fd7bc969a 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 0x0000000000000000-0x000000000009d7ff] usable
[    0.000000] BIOS-e820: [mem 0x000000000009d800-0x000000000009ffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000000e0000-0x00000000000fffff] reserved
root@kayon-pc9:/home/kayon-pc9# uptime
 08:48:04 up 14 min,  1 user,  load average: 0,00, 0,04, 0,08
root@kayon-pc9:/home/kayon-pc9# whoami
root
root@kayon-pc9:/home/kayon-pc9# who
kayon-pc9 tty7         2022-10-11 08:34 (:0)
root@kayon-pc9:/home/kayon-pc9# id
```

File Edit View Terminal Tabs Help

```
kayon-pc9@kayon-pc9:~$ sudo su
[sudo] password for kayon-pc9:
root@kayon-pc9:/home/kayon-pc9# echo halo dunia
halo dunia
root@kayon-pc9:/home/kayon-pc9# date
Sel Okt 11 08:45:28 WIB 2022
root@kayon-pc9:/home/kayon-pc9# hostname
kayon-pc9
root@kayon-pc9:/home/kayon-pc9# arch
x86_64
root@kayon-pc9:/home/kayon-pc9# uname -a
Linux kayon-pc9 5.0.0-37-generic #40~18.04.1-Ubuntu SMP Thu Nov 14 12:06:39 UTC
2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayon-pc9:/home/kayon-pc9# dmesg | more
[    0.000000] microcode: microcode updated early to revision 0x27, date = 2019-
02-26
[    0.000000] Linux version 5.0.0-37-generic (buildd@lcy01-amd64-023) (gcc vers
ion 7.4.0 (Ubuntu 7.4.0-1ubuntu1~18.04.1)) #40~18.04.1-Ubuntu SMP Thu Nov 14 12:
06:39 UTC 2019 (Ubuntu 5.0.0-37.40~18.04.1-generic 5.0.21)
[    0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.0.0-37-generic root=UUID
=bdff658e-f13f-4f6d-8807-ee2fd7bc969a ro quiet splash vt.handoff=1
[    0.000000] KERNEL supported cpus:
[    0.000000]   Intel GenuineIntel
[    0.000000]   AMD AuthenticAMD
```

Terminal - root@kayon-pc9: /home/kayon-pc9

File   Edit   View   Terminal   Tabs   Help

```
v 04)
root@kayon-pc9:/home/kayon-pc9# free
                total        used        free      shared  buff/cache   available
Mem:          8103668      696688     6229328       10604     1177652     7116748
Swap:               0                       0
root@kayon-pc9:/home/kayon-pc9# 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         : 1577.891
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
```

Terminal - root@kayon-pc9: /home/kayon-pc9

File   Edit   View   Terminal   Tabs   Help

```
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 r
dtscp lm constant_tsc arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc
 cpuid aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdb
g fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer
aes xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd i
brs ibpb stibp tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust
 bmi1 avx2 smep bmi2 erms invpcid xsaveopt dtherm ida arat pln pts md_clear flu
sh_l1d
bugs            : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds
 swapgs itlb_multihit
bogomips        : 6584.81
clflush size    : 64
cache_alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

root@kayon-pc9:/home/kayon-pc9# finger root
Login: root                             Name: root
Directory: /root                        Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayon-pc9:/home/kayon-pc9#
```