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NIM : L200180194

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Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
kayon-pc7@kayonpc7:~$ sudo su
[sudo] password for kayon-pc7:
root@kayonpc7: /home/kayon-pc7# echo halo dunia
halo dunia
root@kayonpc7: /home/kayon-pc7# date
Rab Okt 9 16:42:22 WIB 2019
root@kayonpc7: /home/kayon-pc7# hostname
kayonpc7
root@kayonpc7: /home/kayon-pc7# arch
x86_64
root@kayonpc7: /home/kayon-pc7# uname -a
Linux kayonpc7 5.0.0-31-generic #33-18.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayonpc7: /home/kayon-pc7# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[ 0.000000] Linux version 5.0.0-31-generic (build@lgw01-amd64-046) (gcc vers
ion 7.4.0 (Ubuntu 7.4.0-1ubuntu1-18.04.1)) #33-18.04.1-Ubuntu SMP Tue Oct 1 10:2
0:39 UTC 2019 (Ubuntu 5.0.0-31.33-18.04.1-generic 5.0.21)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.0.0-31-generic root=UUID
=0de6c026-7979-40fd-b9a9-6fe1e61c0323 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 0x0000000000000000-0x0000000000009d7fff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000009d800-0x0000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000000e0000-0x000000000000ffffff] reserved
root@kayonpc7: /home/kayon-pc7# uptime
16:50:44 up 17 min, 1 user, load average: 0,02, 0,14, 0,26
```

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Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
[ 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 0x0000000000000000-0x0000000000009d7fff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000009d800-0x0000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000000e0000-0x000000000000ffffff] reserved
root@kayonpc7: /home/kayon-pc7# uptime
16:50:44 up 17 min, 1 user, load average: 0,02, 0,14, 0,26
root@kayonpc7: /home/kayon-pc7# whoami
root
root@kayonpc7: /home/kayon-pc7# who
kayon-pc7 tty7 2019-10-09 23:33 (:0)
root@kayonpc7: /home/kayon-pc7# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc7: /home/kayon-pc7# last
kayon-pc7 tty7 :0 Wed Oct 9 23:33 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:32 still running
kayon-pc7 tty7 :0 Tue Oct 8 16:44 - 17:36 (00:51)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:44 - 17:36 (00:52)
kayon-pc7 tty7 :0 Tue Oct 8 16:40 - 16:42 (00:02)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:40 - 16:42 (00:02)
kayon-pc7 tty7 :0 Tue Oct 8 16:15 - 16:39 (00:24)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:15 - 16:39 (00:24)

wtmp begins Tue Oct 8 15:39:02 2019
root@kayonpc7: /home/kayon-pc7# finger

Command 'finger' not found, but can be installed with:
apt install finger
root@kayonpc7: /home/kayon-pc7#
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
reboot system boot 5.0.0-31-generic Tue Oct 8 16:15 - 16:39 (00:24)

wtmp begins Tue Oct 8 15:39:02 2019
root@kayonpc7:/home/kayon-pc7# finger

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

apt install finger

root@kayonpc7:/home/kayon-pc7# w
16:54:42 up 21 min, 1 user, load average: 0,27, 0,15, 0,23
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
kayon-pc  tty7      :0                23:33    ?      8.78s  0.02s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc7:/home/kayon-pc7# apt install finger

Command 'app' not found, but there are 15 similar ones.

root@kayonpc7:/home/kayon-pc7# apt instal finger
E: Invalid operation instal
root@kayonpc7:/home/kayon-pc7# 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 143 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 1s (15,1 kB/s)
Selecting previously unselected package finger.
(Reading database ... 306034 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@kayonpc7:/home/kayon-pc7#
```

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Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
Setting up finger (0.17-15.1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
root@kayonpc7:/home/kayon-pc7# top

top - 16:56:53 up 23 min, 1 user, load average: 0,03, 0,09, 0,19
Tasks: 190 total, 1 running, 139 sleeping, 0 stopped, 0 zombie
%Cpu(s):  0,2 us,  0,3 sy,  0,0 ni, 99,4 id,  0,2 wa,  0,0 hi,  0,0 si,  0,0 st
KiB Mem : 8103664 total, 5357160 free, 480128 used, 2266376 buff/cache
KiB Swap: 902668 total, 902668 free,  0 used, 7310848 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  %CPU  %MEM    TIME+  COMMAND
  928 root        20   0 362196 62060 42264 S   1,7   0,8   0:11.54 Xorg
2697 kayon-p+  20   0 583292 38980 29188 S   1,7   0,5   0:03.15 xfce4-terminal
1275 kayon-p+  20   0 700176 33896 26532 S   0,3   0,4   0:01.16 panel-9-pulseau
    1 root        20   0 225460 9108  6648 S   0,0   0,1   0:01.24 systemd
    2 root        20   0      0      0      0 S   0,0   0,0   0:00.00 kthreadd
    3 root        20  -20      0      0      0 I   0,0   0,0   0:00.00 rcu_gp
    4 root        20  -20      0      0      0 I   0,0   0,0   0:00.00 rcu_par_gp
    6 root        20  -20      0      0      0 I   0,0   0,0   0:00.00 kworker/6:0H-kb
    8 root        20  -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   0:00.67 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_inject/0
   13 root        20   0      0      0      0 I   0,0   0,0   0:00.10 kworker/0:1-eve
   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        20   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
   20 root        20  -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        20   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   0:00.03 ksoftirqd/2
   26 root        20  -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        20   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   0:00.04 ksoftirqd/3
   31 root        20   0      0      0      0 I   0,0   0,0   0:00.12 kworker/3:0-mm
   32 root        20  -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

root@kayonpc7:/home/kayon-pc7#
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
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
generate output designed for Emacs' dired mode
Manual page ls(1) line 1/207 20% (press h for help or q to quit)
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
KiB Mem : 8183664 total, 5357160 free, 480128 used, 2266376 buff/cache
KiB Swap: 902668 total, 902668 free, 0 used, 7318848 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR   S  %CPU  %MEM     TIME+ COMMAND
  928 root        20   0 362196 62060 42264 S   1,7   0,8   0:11.54 Xorg
2697 kayon-p+  20   0 583292 38980 29188 S   1,7   0,5   0:03.15 xfce4-terminal
1275 kayon-p+  20   0 700176 33896 26532 S   0,3   0,4   0:01.16 panel-9-pulseau
   1 root        20   0 225460  9108  6648 S   0,0   0,1   0:01.24 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   0:00.67 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
  13 root        20   0      0      0      0 I   0,0   0,0   0:00.10 kworker/0:1-eve
  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
  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   0:00.03 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 I   0,0   0,0   0:00.04 ksoftirqd/3
  31 root        20   0      0      0      0 I   0,0   0,0   0:00.12 kworker/3:0-mm
  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

root@kayonpc7:/home/kayon-pc7# echo $SHELL
/bin/bash
root@kayonpc7:/home/kayon-pc7# echo {con,pre}{sent,fer}{s,d}
consents consentd confers conferd presents presentd prefers preferd
root@kayonpc7:/home/kayon-pc7# man ls^C
root@kayonpc7:/home/kayon-pc7# echo {con,pre}{sent,fer}{s,ed}
consents consentd confers conferd presents presented prefers preferd
root@kayonpc7:/home/kayon-pc7# man ls
root@kayonpc7:/home/kayon-pc7#
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
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
    print only name, line, and time (default)
Manual page who(1) line 1 (press h for help or q to quit)
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
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
13 root      20  0      0      0      0 I  0.0  0.0  0:00.10 kworker/0:1-eve
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
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  0:00.03 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  0:00.04 ksoftirqd/3
31 root      20  0      0      0      0 I  0.0  0.0  0:00.12 kworker/3:0-mm
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
root@kayonpc7: /home/kayon-pc7# echo $SHELL
/bin/bash
root@kayonpc7: /home/kayon-pc7# echo {con,pre}{sent,fer}{s,d}
consents consentd confers conferd presents presentd prefers preferd
root@kayonpc7: /home/kayon-pc7# man ls^c
root@kayonpc7: /home/kayon-pc7# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc7: /home/kayon-pc7# man ls
root@kayonpc7: /home/kayon-pc7# man who
root@kayonpc7: /home/kayon-pc7# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc7: /home/kayon-pc7# last
kayon-pc tty7          :0          Wed Oct 9 23:33    gone - no logout
reboot system boot    5.0.0-31-generic Wed Oct 9 23:32    still running
kayon-pc tty7          :0          Tue Oct 8 16:44 - 17:36 (00:51)
reboot system boot    5.0.0-31-generic Tue Oct 8 16:44 - 17:36 (00:52)
kayon-pc tty7          :0          Tue Oct 8 16:40 - 16:42 (00:02)
reboot system boot    5.0.0-31-generic Tue Oct 8 16:40 - 16:42 (00:02)
kayon-pc tty7          :0          Tue Oct 8 16:15 - 16:39 (00:24)
reboot system boot    5.0.0-31-generic Tue Oct 8 16:15 - 16:39 (00:24)
wtmp begins Tue Oct 8 15:39:02 2019
root@kayonpc7: /home/kayon-pc7#
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help

reboot system boot 5.0.0-31-generic Tue Oct 8 16:40 - 16:42 (00:02)
kayon-pc tty7 :0 Tue Oct 8 16:15 - 16:39 (00:24)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:15 - 16:39 (00:24)

wtmp begins Tue Oct 8 15:39:02 2019
root@kayonpc7:/home/kayon-pc7#
root@kayonpc7:/home/kayon-pc7# 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 417507200 199.1G 7 HPFS/NTFS/exFAT
/dev/sda3 417794048 456853551 39061504 18.6G 83 Linux

root@kayonpc7:/home/kayon-pc7# users
kayon-pc7
root@kayonpc7:/home/kayon-pc7# 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=0de6c026-7979-40fd-b9a9-6fe1e61c0323 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayonpc7:/home/kayon-pc7# call 2000
Command 'call' not found, did you mean:

command 'pall' from snap pall (2.0.2)
command 'calc' from deb apcalc
command 'cal' from deb bsdmaintools
command 'wall' from deb bsduutils

See 'snap info <snapname>' for additional versions.
root@kayonpc7:/home/kayon-pc7#
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help

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

Juli Augustus 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@kayonpc7:/home/kayon-pc7# cal 10 2007
October 2007
Mi Se Sa 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@kayonpc7:/home/kayon-pc7# 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@kayonpc7:/home/kayon-pc7#
```



```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help

please
please
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please
^Cease
root@kayonpc7:/home/kayon-pc7# pwd
/home/kayon-pc7
root@kayonpc7:/home/kayon-pc7# 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 cler
21 clear
22 lsb_release -a
23 clear
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help

829 pwd
830 history
root@kayonpc7:/home/kayon-pc7# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc7:/home/kayon-pc7# tail -f /var/log/mesage
tail: cannot open '/var/log/mesage' for reading: No such file or directory
tail: no files remaining
root@kayonpc7:/home/kayon-pc7# lsmod
Module                  Size  Used by
ufs                      81920  0
qnx4                     16384  0
hfsplus                  110592  0
hfs                      61440  0
minix                    36864  0
ntfs                     106496  0
msdos                    20480  0
jfs                      188416  0
xfs                      1236992  0
cpuid                    16384  0
intel_rapl               24576  0
x86_pkg_temp_thermal    20480  0
intel_powerclamp         20480  0
coretemp                 20480  0
snd_hda_codec_realtek    114688  1
snd_hda_codec_generic    77824  1 snd_hda_codec_realtek
ledtrig_audio            16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
snd_hda_codec_hdmi       53248  1
kvm_intel                241664  0
kvm                      630784  1 kvm_intel
irqbypass                16384  1 kvm
snd_hda_intel            49152  2
snd_hda_codec            135168  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
snd_hda_core              86816  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
crc10dif_pclmul          16384  1
crc32_pclmul             16384  0
ghash_clmulni_intel      16384  0
joydev                   28672  0
input_leds               16384  0
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help

wmi 28672 2 asus wmi,wmi_bmf
video 49152 1 asus wmi
root@kayonpc7: /home/kayon-pc7# ps -axu
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1 225460 9108 ?        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 ?        S    16:32   0:00 [migration/0]
root        12  0.0  0.0      0   0 ?        S    16:32   0:00 [idle_inject/0]
root        13  0.0  0.0      0   0 ?        I    16:32   0:00 [kworker/0:1-eve]
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 [idle_inject/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        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 [idle_inject/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        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 [idle_inject/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]
root        31  0.0  0.0      0   0 ?        I    16:32   0:00 [kworker/3:0-mm_]
root        32  0.0  0.0      0   0 ?        I<   16:32   0:00 [kworker/3:0H-kb]
root        33  0.0  0.0      0   0 ?        S    16:32   0:00 [kdevtmpfs]
root        34  0.0  0.0      0   0 ?        I<   16:32   0:00 [netns]
root        35  0.0  0.0      0   0 ?        S    16:32   0:00 [rcu_tasks_kthre]
root        36  0.0  0.0      0   0 ?        S    16:32   0:00 [kauditd]
root        37  0.0  0.0      0   0 ?        S    16:32   0:00 [khungtaskd]
root        38  0.0  0.0      0   0 ?        S    16:32   0:00 [oom_reaper]
root        39  0.0  0.0      0   0 ?        I<   16:32   0:00 [writeback]
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help

root      7293  0.1  0.0      0   0 ?        I    16:50   0:01 [kworker/u8:0-ev]
kayon-p+  7309  0.0  0.0 153012 6440 ?        Sl   16:52   0:00 /usr/lib/libreoffice/program/oosplash --writer
kayon-p+  7326  1.3  2.8 1237964 231592 ?      Sl   16:52   0:19 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
root      7346  0.0  0.0      0   0 ?        I    16:52   0:00 [kworker/3:2-cgr]
root      7420  0.1  0.0      0   0 ?        I    16:55   0:01 [kworker/u8:1-fl]
root      8203  0.0  0.0      0   0 ?        I    17:07   0:00 [kworker/u8:2-ev]
root      8223  0.6  0.0      0   0 ?        I    17:12   0:01 [kworker/u8:3-ev]
root      8256  0.0  0.0 47236 3848 pts/0    R+   17:17   0:00 ps -axu
root     13308  0.0  0.0 73424 4548 pts/0    S    16:37   0:00 sudo su
root     14219  0.0  0.0 72712 3900 pts/0    S    16:37   0:00 su
root     14220  0.0  0.0 30084 5104 pts/0    S    16:37   0:00 bash
root     16071  0.0  0.0 108152 8080 ?        Ss   16:38   0:00 /usr/sbin/cupsd -l
root     16072  0.0  0.1 303520 11112 ?       Ssl  16:38   0:00 /usr/sbin/cups-browsed
root     16202  0.0  0.0      0   0 ?        I    16:38   0:00 [kworker/1:0-cgr]
root@kayonpc7: /home/kayon-pc7# 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@kayonpc7: /home/kayon-pc7# free
              total        used        free      shared  buff/cache   available
Mem:           8103664      548760      5277272         9592      2277632      7241596
Swap:             902668           0         902668

root@kayonpc7: /home/kayon-pc7# cat /proc/cpuinfo
cat: /proc/cpuinfo: No such file or directory
root@kayonpc7: /home/kayon-pc7#
```

Di papan tulis



```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
Mem: 8103664 548760 5277272 9592 2277632 7241596
Swap: 902668 0 902668
root@kayonpc7:/home/kayon-pc7# cat /proc/cpuinfo
cat: /proc/cpuinfo: No such file or directory
root@kayonpc7:/home/kayon-pc7# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc7:/home/kayon-pc7# ls -l
total 32
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Sep  4 10:14 Desktop
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Okt  8 15:36 Documents
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Sep  4 10:14 Downloads
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Sep  4 10:14 Music
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Okt  8 15:29 Pictures
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Sep  4 10:14 Public
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Sep  4 10:14 Templates
drwxr-xr-x 2 kayon-pc7 kayon-pc7 4096 Sep  4 10:14 Videos
root@kayonpc7:/home/kayon-pc7# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc7:/home/kayon-pc7# whakis ls
Command 'whakis' not found, did you mean:
  command 'whatis' from deb man-db
Try: apt install <deb name>
root@kayonpc7:/home/kayon-pc7# whatis ls
ls (1) - list directory contents
root@kayonpc7:/home/kayon-pc7# whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
root@kayonpc7:/home/kayon-pc7# mkdir informatika
root@kayonpc7:/home/kayon-pc7# rmdir informatika
root@kayonpc7:/home/kayon-pc7# touch rpl.txt
root@kayonpc7:/home/kayon-pc7# rm rpl.txt
root@kayonpc7:/home/kayon-pc7# which mkdir
/bin/mkdir
root@kayonpc7:/home/kayon-pc7#
```

```
Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
root@kayonpc7:/home/kayon-pc7# which mkdir
/bin/mkdir
root@kayonpc7:/home/kayon-pc7# where is ls
where: command not found
root@kayonpc7:/home/kayon-pc7# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc7:/home/kayon-pc7# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4009340         0  4009340   0% /dev
tmpfs           810368      1352   809016   1% /run
/dev/sda3       19091540  8660208  9438464  48% /
tmpfs           4051832         0   4051832   0% /dev/shm
tmpfs           5120         4     5116   1% /run/lock
tmpfs           4051832         0   4051832   0% /sys/fs/cgroup
tmpfs           810364      12     810352   1% /run/user/1000
root@kayonpc7:/home/kayon-pc7# du
4      ./mozilla/systemextensionsdev
4      ./mozilla/extensions
12     ./mozilla/firefox/v35f1dtb.default-release/sessionstore-backups
4      ./mozilla/firefox/v35f1dtb.default-release/storage/permanent/chrome/idb/3561288849sdhlie.files
4      ./mozilla/firefox/v35f1dtb.default-release/storage/permanent/chrome/idb/3870112724rsegmnoittet-es.files
4      ./mozilla/firefox/v35f1dtb.default-release/storage/permanent/chrome/idb/1451318068ntouromlalnodyr--epcr.files
4      ./mozilla/firefox/v35f1dtb.default-release/storage/permanent/chrome/idb/1657114595AncatairvtiSty.files
4      ./mozilla/firefox/v35f1dtb.default-release/storage/permanent/chrome/idb/2918063365piupsah.files
15468  ./mozilla/firefox/v35f1dtb.default-release/storage/permanent/chrome/idb
15480  ./mozilla/firefox/v35f1dtb.default-release/storage/permanent/chrome
15484  ./mozilla/firefox/v35f1dtb.default-release/storage/permanent
4      ./mozilla/firefox/v35f1dtb.default-release/storage/default/moz-extension+++464ee67f-083b-4198-8834-4655f1dfef87~userContextId=4294967295/idb/364722921wleabcE
oxlt-eengsairo.files
52     ./mozilla/firefox/v35f1dtb.default-release/storage/default/moz-extension+++464ee67f-083b-4198-8834-4655f1dfef87~userContextId=4294967295/idb
64     ./mozilla/firefox/v35f1dtb.default-release/storage/default/moz-extension+++464ee67f-083b-4198-8834-4655f1dfef87~userContextId=4294967295
196    ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/15
320    ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/251
664    ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/221
172    ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/253
320    ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/151
56     ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/35
384    ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/88
320    ./mozilla/firefox/v35f1dtb.default-release/storage/default/https+++mail.google.com/cache/morgue/255
```

```

Terminal - root@kayonpc7: /home/kayon-pc7
File Edit View Terminal Tabs Help
8      ~/.cache/sessions/thumbs-kayonpc7:0
20     ~/.cache/sessions
39096  ~/.cache
4      ./Downloads
44     ~/.gnome2/gtksourceview-1.0/language-specs
48     ~/.gnome2/gtksourceview-1.0
52     ~/.gnome2
4      ./Public
77192  .
root@kayonpc7: /home/kayon-pc7#
root@kayonpc7: /home/kayon-pc7# free
              total        used        free      shared  buff/cache   available
Mem:      8103664      556980      5252720         9596      2293964      7233376
Swap:      902668           0       902668
root@kayonpc7: /home/kayon-pc7# pstree
systemd -- ModemManager -- 2*[ModemManager]
        |   |
        |   +-- NetworkManager -- dhclient
        |   |   |
        |   |   +-- 2*[NetworkManager]
        |   |
        |   +-- Thunar
        |   +-- accounts-daemon -- 2*[accounts-daemon]
        |   +-- acpid
        |   +-- 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]

```

**echo halo dunia    menampilkan teks halo dunia**

<i>date</i>	menampilkan tanggal
<i>hostname</i>	menampilkan nama komputer
<i>arch</i>	menampilkan jenis arsitektur dari sebuah sitem
<i>uname -a</i>	informasi system kernel anda
<i>dmesg   more</i>	mencetak pesan waktu proses boot yang ditampilkan layar per layar
<i>uptime</i>	melihat jumlah waktu pemakaian komputer
<i>whoami</i>	mencetak pengguna saat ini
<i>who</i>	melihat nama login
<i>id</i>	menampilkan identitas user
<i>last</i>	melihat user sebelum yang telah login
<i>finger</i>	melihat infomasi
<i>w</i>	perintah untuk mengetahui siapa saja yang sedang aktif
<i>top</i>	melihat semua proses yang sedang berjalan dan diurutkan dari yang paling besar
<i>echo \$SHELL</i>	melihat isi variabel sell
<i>echo {con,pre}{sent,fer}{s,ed}</i>	menyusun banyak kata
<i>man ls</i>	menampilkan informasi perintah ls
<i>man who</i>	menampilkan informasi perintah who
<i>who can tell me about linux</i>	who extra operand me try 'who --help' for more information
<i>last</i>	melihat user sebelum yang telah login
<i>clear</i>	membersihkan terminal
<i>fdisk -l</i>	menampilkan partisi
<i>users</i>	menampilkan daftar uer yang sedang aktif
<i>cat /etc/fstab</i>	melihat file system yang sudah disetup
<i>cal 2000</i>	menampilkan kalender tahun 2000
<i>cal 9 1752</i>	menampilkan kalender bulan 9 1975
<i>cal 10 2007</i>	menampilkan kalender bulan 10 2007
<i>bc -l</i>	menampilkan versi bc

<i>echo 5+4  bc -l</i>	menampilkan hasil penjumlahan yaitu 9
<i>yes please</i>	cetak strin please hingga interrupt
<i>pwd</i>	memperlihatkan di direktori mana posisi sekarang
<i>history</i>	melihat perintah apa saja yang sudah diketik
<i>tail -f /var/log/message</i>	mendefinisikan sebuah data pada file menurut baris
<i>lsmod</i>	digunakan untuk (as root) melihat modul kernel yang di load
<i>ps -axu</i>	melihat seluruh proses yang dijalankan walaupun tanpa terminal control
<i>lspci</i>	melihat spesifikasi hardware komputer yang sedang digunakan
<i>free</i>	melihat free memori
<i>cat /proc/cpuinfo</i>	cpu info, melihat file proc directory yang bukan merupakan file nyata
<i>finger root</i>	melihat informasi finger root
<i>reboot</i>	merestat komputer
<i>halt</i>	mematikan komputer
<i>ls</i>	menampilkan isi dari suatu direktori beserta atribut file
<i>ls -l</i>	menampilkan isi direktori secara lengkap
<i>ls -l / home</i>	melihat semua file yang ada di home scr lengkap
<i>what is ls</i>	deskripsi perintah ls berupa kegunaan
<i>what is mkdir</i>	deskripsi perintah mkdir berupa kegunaan
<i>mkdir informatika</i>	membuat sebuah direktori informatika
<i>rmdir informatika</i>	menghapus direktori informatika
<i>touch rpl.txt</i>	membuat file baru bernama rpl.txt
<i>rm rpl.txt</i>	menghapus file rpl.txt
<i>which mkdir</i>	mengetahui letak file perintah
<i>whereis ls</i>	meunjukkan lokasi file ls
<i>du</i>	menampilkan ringkasan penggunaan media penyimpanan
<i>df</i>	menampilkan penggunaan penyimpanan suatu disk
<i>free</i>	informasi penggunaan memory
<i>pstree</i>	menampilkan semua proses pada sistem dalam bentuk hierarki