

Muhammad Fadhil Bariz Ardanto  
L200180200  
Kelas E

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Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help
kayon-pc12@kayonpc12:~$ sudo su
[sudo] password for kayon-pc12:
Sorry, try again.
[sudo] password for kayon-pc12:
root@kayonpc12: /home/kayon-pc12# echo halo dunia
halo dunia
root@kayonpc12: /home/kayon-pc12# date
Rab Okt  9 16:39:32 WIB 2019
root@kayonpc12: /home/kayon-pc12# hostname
kayonpc12
root@kayonpc12: /home/kayon-pc12# arch
x86_64
root@kayonpc12: /home/kayon-pc12# uname -a
Linux kayonpc12 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@kayonpc12: /home/kayon-pc12# 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 version 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=aa05b996-449f-4d49-bdc6-407b5ccc779 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 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:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009d7ff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000009d800-0x000000000009f9ff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000009fa00-0x00000000000fffff] reserved
root@kayonpc12: /home/kayon-pc12# uptime
16:41:48 up 8 min, 1 user, load average: 0,30, 0,88, 0,59
root@kayonpc12: /home/kayon-pc12# whoami
root
root@kayonpc12: /home/kayon-pc12# who
kayon-pc12 tty7          2019-10-09 23:33 (:0)
root@kayonpc12: /home/kayon-pc12#
root@kayonpc12: /home/kayon-pc12# id
uid=0(root) gid=0(root) groups=0(root)
```

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Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help
root@kayonpc12: /home/kayon-pc12# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc12: /home/kayon-pc12# last
kayon-pc12 tty7          :0          Wed Oct  9 23:33   gone - no logout
reboot system boot 5.0.0-27-generic Wed Oct  9 23:33   still running
kayon-pc12 tty7          :0          Tue Oct  8 16:07 - 17:29 (01:22)
reboot system boot 5.0.0-27-generic Tue Oct  8 16:06 - 17:29 (01:23)
kayon-pc12 tty7          :0          Tue Oct  8 15:33 - 15:38 (00:04)
reboot system boot 5.0.0-27-generic Tue Oct  8 15:33 - 15:38 (00:05)

wtmp begins Tue Oct  8 15:32:49 2019
root@kayonpc12: /home/kayon-pc12# finger
Login      Name      Tty      Idle  Login Time   Office   Office Phone
kayon-pc12 kayon-pc12  tty7          Oct  9 23:33 (:0)
root@kayonpc12: /home/kayon-pc12# w
16:44:07 up 11 min,  1 user, load average: 0,04, 0,56, 0,51
USER      TTY      FROM      LOGIN@   IDLE   JCPU   PCPU   WHAT
kayon-pc12 tty7          :0          23:33    ?      1.44s  0.03s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc12: /home/kayon-pc12# top

top - 16:44:17 up 11 min,  1 user, load average: 0,04, 0,55, 0,50
Tasks: 181 total,  1 running, 130 sleeping,  0 stopped,  0 zombie
%Cpu(s):  0,0 us,  0,2 sy,  0,0 ni, 99,8 id,  0,1 wa,  0,0 hi,  0,0 si,  0,0 st
KiB Mem : 8036164 total, 5404784 free, 371852 used, 2179540 buff/cache
KiB Swap: 947080 total, 947080 free,  0 used, 7314560 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR S %CPU %MEM    TIME+  COMMAND
27153 root        20   0 51672 4316 3644 R  0,3  0,1   0:00.03 top
   1 root        20   0 225504 9268 6736 S  0,0  0,1   0:01.23 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-ev
   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   0:00.48 rcu_sched
  11 root        rt    0   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   0:00.02 kworker/0:1-cgr
  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   0 S  0,0  0,0   0:00.00 migration/1
  18 root        20   0   0   0   0 S  0,0  0,0   0:00.01 ksoftirqd/1
  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@kayonpc12: /home/kayon-pc12
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 (press h for help or q to quit)
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
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@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help
Command 'who' not found, did you mean:
  command 'who' from deb coreutils
Try: apt install <deb name>
root@kayonpc12:/home/kayon-pc12# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc12:/home/kayon-pc12# finger
Login      Name      Tty      Idle Login Time   Office   Office Phone
kayon-pc12 kayon-pc12 tty7      Oct 9 23:33 (:0)
root@kayonpc12:/home/kayon-pc12# who --help
Usage: who [OPTION]... [ FILE | ARG1 ARG2 ]
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)
-t, --time         print last system clock change
-T, -w, --mesg     add user's message status as +, - or ?
-U, --users        list users logged in
--message         same as -l
--writable         same as -t
--help            display this help and exit
--version         output version information and exit

If FILE is not specified, use /var/run/utmp. /var/log/wtmp as FILE is common.
If ARG1 ARG2 given, -m presumed: 'am i' or 'mom likes' are usual.

GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
Full documentation at: <http://www.gnu.org/software/coreutils/who>
or available locally via: info '(coreutils) who invocation'
root@kayonpc12:/home/kayon-pc12#
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point> <type> <options>          <dump> <pass>
# / was on /dev/sda4 during installation
UUID=805b9986-449f-4d49-8dc6-4077b5ccc778 /          ext4    errors=remount-ro 0      1
/swapfile                                 none    swap    sw                0      0
root@kayonpc12:/home/kayon-pc12# 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      1
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
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 Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se 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@kayonpc12:/home/kayon-pc12#
```



```
Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help
787 pwd
788 history
789 tail -f /var/log/message
790 ls
791 ls -l
792 ls -l
793 ls/home
794 whatis ls
795 ls -l
796 ls -l
797 ls/home
798 whatis ls
799 mkdir informatika
800 rmdir informatika
801 which mkdir
802 whereis mkdir
803 tree
804 ls -l
805 ls -l
806 free
807 pstree
808 echo $SHELL
809 echo {con,pre} {sent,fer} {s,ed}
810 man ls
811 man who
812 who can tell me about linux
813 Who can tell me about linux
814 who can tell me about linux
815 finger
816 who --help
817 last
818 clear
819 fdisk -l
820 users
821 cat /etc/fstab
822 cal 2000
823 cal 9 1752
824 cal 9 2007
825 cal 10 2007
826 bc -l
827 echo 5+4 | bc -l
828 yes please
829 pwd
830 history
root@kayonpc12:/home/kayon-pc12#
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help
829 pwd
830 history
root@kayonpc12:/home/kayon-pc12# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc12:/home/kayon-pc12# 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
snd_hda_codec_realtek   114688  1
coretemp                20480  0
snd_hda_codec_generic   77824  1 snd_hda_codec_realtek
ledtrig_audio           16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
kvm_intel               237568  0
crc16dif_pclmul         16384  1
crc32_pclmul            16384  0
ghash_clmulni_intel     16384  0
joydev                  28672  0
input_leds              16384  0
snd_hda_codec_hdmi      53248  1
snd_hda_intel           40960  2
snd_hda_codec           131072  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
aesni_intel             372736  0
snd_hda_core            86016  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
eeepc_wmi               16384  0
aes_x86_64              20480  1 aesni_intel
crypto_simd             16384  1 aesni_intel
asus_wmi                 28672  1 eeepc_wmi
cryptd                  24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
sparse_keymap           16384  1 asus_wmi
snd_hwdsp               20480  1 snd_hda_codec
snd_pcm                 102400  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
glue_helper             16384  1 aesni_intel
snd_seq_midi            20480  0
snd_seq_midi_event      16384  1 snd_seq_midi
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
root@kayonpc12:/home/kayon-pc12# ps -axu
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1 225504  9268 ?        Ss   16:33   0:01 /sbin/init splash
root         2  0.0  0.0      0   0 ?        S    16:33   0:00 [kthreadd]
root         3  0.0  0.0      0   0 ?        I<   16:33   0:00 [rcu_gp]
root         4  0.0  0.0      0   0 ?        I<   16:33   0:00 [rcu_par_gp]
root         6  0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/0:0H-ev]
root         8  0.0  0.0      0   0 ?        I<   16:33   0:00 [mm_percpu_wq]
root         9  0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/0]
root        10  0.0  0.0      0   0 ?        I    16:33   0:00 [rcu_sched]
root        11  0.0  0.0      0   0 ?        S    16:33   0:00 [migration/0]
root        12  0.0  0.0      0   0 ?        S    16:33   0:00 [idle_inject/0]
root        13  0.0  0.0      0   0 ?        I    16:33   0:00 [kworker/0:1-cgr]
root        14  0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/0]
root        15  0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/1]
root        16  0.0  0.0      0   0 ?        S    16:33   0:00 [idle_inject/1]
root        17  0.0  0.0      0   0 ?        S    16:33   0:00 [migration/1]
root        18  0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/1]
root        20  0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/1:0H-kb]
root        21  0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/2]
root        22  0.0  0.0      0   0 ?        I    16:33   0:00 [idle_inject/2]
root        23  0.0  0.0      0   0 ?        S    16:33   0:00 [migration/2]
root        24  0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/2]
root        26  0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/2:0H-kb]
root        27  0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/3]
root        28  0.0  0.0      0   0 ?        S    16:33   0:00 [idle_inject/3]
root        29  0.0  0.0      0   0 ?        S    16:33   0:00 [migration/3]
root        30  0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/3]
root        31  0.0  0.0      0   0 ?        I    16:33   0:00 [kworker/3:0-eve]
root        32  0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/3:0H-kb]
root        33  0.0  0.0      0   0 ?        S    16:33   0:00 [kdevtmpfs]
root        34  0.0  0.0      0   0 ?        I<   16:33   0:00 [netns]
root        35  0.0  0.0      0   0 ?        S    16:33   0:00 [rcu_tasks_kthre]
root        36  0.0  0.0      0   0 ?        S    16:33   0:00 [kauditd]
root        37  0.0  0.0      0   0 ?        S    16:33   0:00 [khungtaskd]
root        38  0.0  0.0      0   0 ?        S    16:33   0:00 [oom_reaper]
root        39  0.0  0.0      0   0 ?        I<   16:33   0:00 [writeback]
root        40  0.0  0.0      0   0 ?        S    16:33   0:00 [kcompactd0]
root        41  0.0  0.0      0   0 ?        SN   16:33   0:00 [ksmd]
root        42  0.0  0.0      0   0 ?        SN   16:33   0:00 [khugepaged]
root        43  0.0  0.0      0   0 ?        I<   16:33   0:00 [crypto]
root        44  0.0  0.0      0   0 ?        I<   16:33   0:00 [kintegrityd]
root        45  0.0  0.0      0   0 ?        I<   16:33   0:00 [kblockd]
root        46  0.0  0.0      0   0 ?        I<   16:33   0:00 [tpm_dev_wq]
root        47  0.0  0.0      0   0 ?        I<   16:33   0:00 [ata_sff]
```

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Terminal - root@kayonpc12: /home/kayon-pc12
root      2618  0.0  0.0  73424  4520 pts/0    S    16:36   0:00 sudo su
root      2662  0.0  0.0  72712  3892 pts/0    S    16:36   0:00 su
root      2663  0.0  0.0  30084  4872 pts/0    S    16:36   0:00 bash
root      3795  0.0  0.0      0   0 ?        I    16:37   0:00 [kworker/2:4-eve]
root      3796  0.0  0.0      0   0 ?        I    16:37   0:00 [kworker/2:5-eve]
root      3827  0.0  0.0      0   0 ?        I    16:37   0:00 [kworker/1:4-eve]
root      3828  0.0  0.0      0   0 ?        I    16:37   0:00 [kworker/1:5-eve]
root      3833  0.0  0.0  45224  2888 ?        Ss   16:37   0:00 /sbin/wpa_supplicant -u -s -o /run/wpa_supplicant
root     14649  0.0  0.1 108152  8040 ?        Ss   16:38   0:00 /usr/sbin/cupsd -l
root     14650  0.0  0.1 303520 10940 ?        Ssl  16:38   0:00 /usr/sbin/cups-browsed
root     26574  0.0  0.0      0   0 ?        I<   16:40   0:00 [xfsa1loc]
root     26575  0.0  0.0      0   0 ?        I<   16:40   0:00 [xfsa_mru_cache]
root     26586  0.0  0.0      0   0 ?        S    16:40   0:00 [jfsIO]
root     26587  0.0  0.0      0   0 ?        S    16:40   0:00 [jfsCommit]
root     26588  0.0  0.0      0   0 ?        S    16:40   0:00 [jfsCommit]
root     26589  0.0  0.0      0   0 ?        S    16:40   0:00 [jfsCommit]
root     26590  0.0  0.0      0   0 ?        S    16:40   0:00 [jfsCommit]
root     26591  0.0  0.0      0   0 ?        S    16:40   0:00 [jfsSync]
root     27123  0.0  0.0      0   0 ?        I    16:40   0:00 [kworker/3:1]
root     27149  0.0  0.0      0   0 ?        I    16:43   0:00 [kworker/u8:0-ev]
root     27154  0.0  0.0  30084  4984 pts/0    S    16:44   0:00 /bin/bash
kayon-p+ 27168  0.0  0.0 144812  6244 ?        Sl   16:47   0:00 /usr/lib/libreoffice/program/soffice --writer
kayon-p+ 27185  1.7  2.6 1210076 209296 ?      S    16:47   0:19 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
root     28037  0.1  0.0      0   0 ?        I    16:55   0:00 [kworker/u8:1-ev]
root     28116  0.2  0.0      0   0 ?        I    16:59   0:00 [kworker/u8:2-ev]
root     28189  0.0  0.0  47236  3744 pts/0    R+   17:05   0:00 ps -axu
root@kayonpc12:/home/kayon-pc12# 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)
00:02.0 VGA compatible controller: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor Integrated Graphics Controller (rev 06)
00:03.0 Audio device: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor HD Audio 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)
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@kayonpc12:/home/kayon-pc12#
```

```
Terminal - root@kayonpc12: /home/kayon-pc12

root 3796 0.0 0.0 0 0 ? I 16:37 0:00 [kworker/2:5-eve]
root 3827 0.0 0.0 0 0 ? I 16:37 0:00 [kworker/1:4-eve]
root 3828 0.0 0.0 0 0 ? I 16:37 0:00 [kworker/1:5-eve]
root 3833 0.0 0.0 45224 2888 ? Ss 16:37 0:00 /sbin/wpa_supplicant -u -s -0 /run/wpa_supplicant
root 14649 0.0 0.1 108152 8040 ? Ss 16:38 0:00 /usr/sbin/cupsd -l
root 14650 0.0 0.1 303520 10940 ? Ssl 16:38 0:00 /usr/sbin/cups-browsed
root 26574 0.0 0.0 0 0 ? I< 16:40 0:00 [xfsalloc]
root 26575 0.0 0.0 0 0 ? I< 16:40 0:00 [xfs_mru_cache]
root 26586 0.0 0.0 0 0 ? S 16:40 0:00 [jfsIo]
root 26587 0.0 0.0 0 0 ? S 16:40 0:00 [jfsCommit]
root 26588 0.0 0.0 0 0 ? S 16:40 0:00 [jfsCommit]
root 26589 0.0 0.0 0 0 ? S 16:40 0:00 [jfsCommit]
root 26590 0.0 0.0 0 0 ? S 16:40 0:00 [jfsCommit]
root 26591 0.0 0.0 0 0 ? S 16:40 0:00 [jfsSync]
root 27123 0.0 0.0 0 0 ? I 16:40 0:00 [kworker/3:1]
root 27149 0.0 0.0 0 0 ? I 16:43 0:00 [kworker/u8:0-ev]
root 27154 0.0 0.0 30804 4884 pts/0 S 16:44 0:00 /bin/bash
kayon-pc12 27168 0.0 0.0 144812 6244 ? Sl 16:47 0:00 /usr/lib/libreoffice/program/soffice --writer
kayon-pc12 27185 1.7 2.6 1210876 209296 ? Sl 16:47 0:19 /usr/lib/libreoffice/program/soffice --writer --splash-pipe=5
root 28037 0.1 0.0 0 0 ? I 16:55 0:00 [kworker/u8:1-ev]
root 28116 0.2 0.0 0 0 ? I 16:59 0:00 [kworker/u8:2-ev]
root 28189 0.0 0.0 47236 3744 pts/0 R+ 17:05 0:00 ps -axu

root@kayonpc12:/home/kayon-pc12# 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)
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00:14.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB xHCI (rev 05)
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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 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (rev d5)
00:1d.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB EHCI #1 (rev 05)
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04:00.0 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)

root@kayonpc12:/home/kayon-pc12# free
              total        used        free      shared  buff/cache   available
Mem:           8036164       514132       5185424       115976       2336608       7102156
Swap:          947080            0         947080

root@kayonpc12:/home/kayon-pc12#
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
Terminal - root@kayonpc12: /home/kayon-pc12

File Edit View Terminal Tabs Help

bogomips      : 6585.45
clflush_size  : 64
cache_alignm  : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

processor      : 3
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       : 798.289
cache size    : 6144 KB
physical id   : 0
siblings      : 4
core id       : 3
cpu cores     : 4
apicid        : 6
initial apicid : 6
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 rdtscp 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 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne_tscer aes xsave avx f16c rdrand lahf_lm abse cpuid_fault epb invpcid_single pti ssbd ibrs lbrp stibp tpr_shadow vmml flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lld
bugs          : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips      : 6585.45
clflush_size  : 64
cache_alignm  : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayonpc12:/home/kayon-pc12# finger root
Login: root                                Name: root
Directory: /root                          Shell: /bin/bash
Never logged in.
No mail.
No Plan.

root@kayonpc12:/home/kayon-pc12# uname -a
Linux kayonpc12 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@kayonpc12:/home/kayon-pc12#
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help

invpcid xsaveopt dtherm ida arat pln pts md clear flush l1d
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6585.45
clflush size : 64
cache_alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

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vendor_id : GenuineIntel
cpu family : 6
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model name : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
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cpu MHz : 798.289
cache size : 6144 KB
physical id : 0
siblings : 4
core id : 3
cpu cores : 4
apicid : 6
initial apicid : 6
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 rdtscp 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 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne_timer aes xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmni flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md clear flush l1d
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6585.45
clflush size : 64
cache_alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayonpc12:/home/kayon-pc12# finger root
Login: root Name: root
Directory: /root Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayonpc12:/home/kayon-pc12#
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help

bogomips : 6585.45
clflush size : 64
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stepping : 3
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cache size : 6144 KB
physical id : 0
siblings : 4
core id : 3
cpu cores : 4
apicid : 6
initial apicid : 6
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 rdtscp 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 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne_timer aes xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmni flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md clear flush l1d
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6585.45
clflush size : 64
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address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayonpc12:/home/kayon-pc12# finger root
Login: root Name: root
Directory: /root Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayonpc12:/home/kayon-pc12# uname -a
Linux kayonpc12 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@kayonpc12:/home/kayon-pc12#
```



```
Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help

invpcid xsaveopt dtherm ida arat pln pts md clear flush lid
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6585.45
clflush size : 64
cache alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayonpc12:/home/kayon-pc12# finger root
Login: root Name: root
Directory: /root Shell: /bin/bash
Never logged in.
No mail.
No Plan.

root@kayonpc12:/home/kayon-pc12# uname -a
Linux kayonpc12 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@kayonpc12:/home/kayon-pc12# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc12:/home/kayon-pc12# ls -l
total 32
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Desktop
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Documents
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Downloads
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Music
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Okt 8 17:29 Pictures
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Public
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Templates
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Videos
root@kayonpc12:/home/kayon-pc12# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc12:/home/kayon-pc12# what is ls

Command 'what' not found, did you mean:

  command 'chat' from deb ppp
  command 'wcat' from deb sac
  command 'jhat' from deb openjdk-8-jdk-headless

Try: apt install <deb name>

root@kayonpc12:/home/kayon-pc12# whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
root@kayonpc12:/home/kayon-pc12#
```

```
Terminal - root@kayonpc12: /home/kayon-pc12
File Edit View Terminal Tabs Help

root@kayonpc12:/home/kayon-pc12# finger root
Login: root Name: root
Directory: /root Shell: /bin/bash
Never logged in.
No mail.
No Plan.

root@kayonpc12:/home/kayon-pc12# uname -a
Linux kayonpc12 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@kayonpc12:/home/kayon-pc12# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc12:/home/kayon-pc12# ls -l
total 32
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Desktop
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Documents
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Downloads
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Music
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Okt 8 17:29 Pictures
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Public
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Templates
drwxr-xr-x 2 kayon-pc12 kayon-pc12 4096 Sep 5 16:32 Videos
root@kayonpc12:/home/kayon-pc12# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc12:/home/kayon-pc12# what is ls

Command 'what' not found, did you mean:

  command 'chat' from deb ppp
  command 'wcat' from deb sac
  command 'jhat' from deb openjdk-8-jdk-headless

Try: apt install <deb name>

root@kayonpc12:/home/kayon-pc12# whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
root@kayonpc12:/home/kayon-pc12# mkdir informatika
root@kayonpc12:/home/kayon-pc12# rmdir informatika
root@kayonpc12:/home/kayon-pc12# touch rpl.txt
root@kayonpc12:/home/kayon-pc12# rm rpl.txt
root@kayonpc12:/home/kayon-pc12# which mkdir
/bin/mkdir
root@kayonpc12:/home/kayon-pc12# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc12:/home/kayon-pc12#
```



bebas lainnya. Debian GNU/Linux memuat perkakas sistem operasi GNU dan kernel Linux merupakan distribusi Linux yang popmuler dan berpengaruh. Debian didistribusikan dengan akses ke repositori dengan ribuan paket perangkat lunak yang siap untuk instalasi dan digunakan.

- Linux Mint adalah sistem operasi Linux yang merupakan suatu distribusi Linux dengan basis Debian dan Ubuntu,[4] dengan Linux Mint Debian Edition (LMDE) sebagai suatu alternatif yang sepenuhnya berbasis Debian. Aplikasi yang dapat berjalan di Ubuntu, juga bisa berjalan pada LinuxMint. Walaupun inti dari LinuxMint adalah Ubuntu, LinuxMint hadir dengan tampilan yang berbeda dengan Ubuntu

. - Kali Linux adalah reinkarnasi dari BackTrack, sebuah distro Linux yang dibuat khusus untuk keperluan penetration dan testing sebuah sistem keamanan komputer. Kali Linux disinyalir lebih stabil dan powerful dari generasi sebelumnya yaitu BackTrack. Dikembangkan sepenuhnya kepada standar pengembangan Debian. Rilis terbarunya saat ini adalah Kali Linux 1.0.7.

- BlankOn : BlankOn adalah sebuah distribusi Linux berbasis Debian yang dikembangkan oleh tim pengembang BlankOn Indonesia dengan dukungan dari Yayasan Penggerak Linux Indonesia (YPLI).

## 2. 20 perintah di distro linux :

- A. sudo su : Berfungsi untuk melakukan login sebagai root/pengguna tertinggi.
- B. root : Berfungsi untuk melakukan login sebagai root.
- C. login : Berfungsi untuk login sebagai user lain, namun harus menjadi root terlebih dahulu untuk bisa menjalankan perintah ini.
- D. cd (change directory) : Berpindah directory/folder.
- E. pwd : Befungsi untuk memperlihatkan direktori mana posisi kita berada.
- F. ls : Berfungsi untuk melihat isi sebuah direktori.
- G. mv : Berfungsi untuk memindahkan cut atau rename file.
- H. mkdir : Membuat folder baru.
- I. rmdir : Menghapus folder.
- J. touch : membuat file baru.
- K. rm : Menghapus file.
- L. more : Menampilkan isi sebuah file.
- M. echo : Menuliskan sesuatu kata atau kalimat ke sebuah file.
- N. aduser : Menambah user baru.
- O. deluser : Berfungsi untuk menghapus user dari system.
- P. addgroup : Berfungsi untuk menambahkan group baru.
- Q. lsusb : Berfungsi untuk melihat perangkat USB yang sedang terkoneksi ke komputer.
- R. lspci : Berfungsi untuk melihat perangkat PCI yang sedang terkoneksi.
- S. lshw : Berfungsi untuk melihat hardware komputer.
- T. dmesg : Berfungsi untuk melihat hardware yang sedang beraktifitas.

### 3. Perintah :

- A. init 0 : Digunakan untuk maintenance, diagnostic hardware, booting selain dari disk misal dari cdroom.
- B. init 1 : Single user mode, di gunakan untuk menambahkan patches, backup/restore system. Level ini kita bisa menjalankan /access semua file tapi user lain tidak bisa login ke Dalam system kita.
- C. init 2 : multiuser mode, biasanya untuk digunakan dalam network. tapi disini tidak ada resources yang tidak di share.
- D. init 3 : memperluas multiuser mode, kita bisa membuat local resources share pada network kita. Sehingga kita bisa berbagi data di level ini dalam network.
- E. init 4 : untuk alternatif multiuser mode tetapi saat ini belum bisa digunakan.
- F. init 5 : untuk shutdown/power off
- G. init 6 : memberhentikan sistem operasi kemudian reboot dan kembali ke initdefault nya yang ada di etc/inittab

4. Quota : quota adalah nilai bebas yang di tetapkan untuk mengelola akses ke sumber daya sistem dan jaringan atau jumlah penyimpanan yang digunakan oleh user atau group tertentu.

1. Echo : menampilkan tulisan
2. Date : menampilkan tanggal
3. Hostname : menampilkan nama pc
4. Arch : arsitektur komputer
5. Dmesg : menuliskan pesan kernel
6. Uptime : waktu yg digunakan
7. Whoami : super user
8. Who : menampilkan user
9. Id : menampilkan user
10. Last : menampilkan login attempts
11. Finger : melihat aktivitas user
12. W: melihat aktivitas user
13. Top: menampilkan informasi pekerjaan
14. Echo shell: menampilkan string pada argumen
15. Echo [con.pre]: menampilkan direktori tertentu
16. Man ls: menampilkan direktori
17. Man who: menampilkan nama user
18. Who can tell me about linux: menampilkan linux
19. Clear: menghapus command
20. Fdisk: menampilkan removable disk
21. Users: menampilkan user
22. Cat /etc/fstab: sistem konfigurasi
23. Cal 2000: menampilkan sistem konfigurasi
24. Cal 9 1752: menampilkan sistem konfigurasi
25. Cal 10 2007 : menampilkan konfigurasi
26. Bc -l : versi linux
27. Pwd: Befungsi untuk memperlihatkan direktori mana posisi kita berada
28. History: menampilkan histori command
29. Lsmdu: menampilkan status modul
30. Ps -axu: menampilkan pekerjaan linux
31. Lspci: menampilkan informasi pci
32. Free: total jumlah penyimpanan
33. Cat /proc cpu info: untuk mengetahui prosesor pc
34. Finger root: super user

35. Reboot : me-restart pc

36. Halt:menginstruksikan untuk menghentikan semua hardware pc