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## Modul 5

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
kayon-pc21@kayonpc21:~$ sudo su
[sudo] password for kayon-pc21:
root@kayonpc21: /home/kayon-pc21# echo halo dunia
halo dunia
root@kayonpc21: /home/kayon-pc21# date
Rab Okt  9 16:40:32 WIB 2019
root@kayonpc21: /home/kayon-pc21# hostname
kayonpc21
root@kayonpc21: /home/kayon-pc21# arch
x86_64
root@kayonpc21: /home/kayon-pc21# uname -a
Linux kayonpc21 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@kayonpc21: /home/kayon-pc21# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[ 0.000000] Linux version 5.0.0-31-generic (buildde1gw01-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 10:20:39 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=d825fa07-c79-d0d-8d09-4392dbfac110 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 0x000000000009e000-0x000000000006ffffff] reserved
--More--
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
root@kayonpc21: /home/kayon-pc21# uptime
16:49:21 up 14 min,  1 user,  load average: 0,08, 0,16, 0,23
root@kayonpc21: /home/kayon-pc21# whoami
root
root@kayonpc21: /home/kayon-pc21# who
kayon-pc21 tty7      2019-10-09 23:35 (:0)
root@kayonpc21: /home/kayon-pc21# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc21: /home/kayon-pc21# last
kayon-pc tty7      :0      Wed Oct  9 23:35   gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct  9 23:34   still running
kayon-pc tty7      :0      Tue Oct  8 17:23 - 17:31 (00:07)
reboot system boot 5.0.0-31-generic Tue Oct  8 17:22 - 17:31 (00:09)
kayon-pc tty7      :0      Tue Oct  8 16:18 - 17:20 (01:02)
reboot system boot 5.0.0-31-generic Tue Oct  8 16:17 - 17:20 (01:03)
kayon-pc tty7      :0      Tue Oct  8 14:56 - 15:33 (00:37)
reboot system boot 5.0.0-31-generic Tue Oct  8 14:55 - 15:34 (00:38)

wtmp begins Tue Oct  8 14:54:59 2019
root@kayonpc21: /home/kayon-pc21# finger

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

apt install finger

root@kayonpc21: /home/kayon-pc21# w
16:49:44 up 14 min,  1 user,  load average: 0,05, 0,14, 0,22
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
kayon-pc  tty7      :0            23:35    ?      8.85s  0.01s  /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc21: /home/kayon-pc21# top

top - 16:51:14 up 16 min,  1 user,  load average: 0,01, 0,10, 0,19
Tasks: 191 total,  1 running, 140 sleeping,  0 stopped,  0 zombie
%Cpu(s):  0,1 us,  0,3 sy,  0,0 ni, 99,6 id,  0,0 wa,  0,0 hi,  0,0 si,  0,0 st
KiB Mem : 8183648 total, 6395128 free, 489435 used, 1219804 buff/cache
KiB Swap: 947028 total, 947028 free,  0 used, 7325416 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR  S  %CPU  %MEM     TIME+ COMMAND
5942 root       20   0 51672  4072  3384 R   0,7  0,1   0:00.35 top
5 root       20   0      0      0      0  I   0,3  0,0   0:00.09 kworker/0:0-eve
5623 kayon-p+ 20   0 583404 39552 29428 S   0,3  0,5   0:03.50 xfce4-terminal
1 root       20   0 225404    9188 6708 S   0,0  0,1   0:01.17 systemd
2 root       20   0      0      0      0  S   0,0  0,0   0:00:00 kthreadd
3 root       20   0      0      0      0  I   0,0  0,0   0:00:00 rcu_gp
4 root       20   0      0      0      0  I   0,0  0,0   0:00:00 rcu_par_gp
6 root       20   0      0      0      0  I   0,0  0,0   0:00:00 kworker/0:0H-kb
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help

Tasks: 191 total, 1 running, 140 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.1 us, 0.3 sy, 0.0 ni, 99.6 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 8103648 total, 6395128 free, 489436 used, 1219084 buff/cache
KiB Swap: 947028 total, 947028 free, 0 used, 7325416 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM     TIME+ COMMAND
 5942 root        20   0 51672 4872 3384 R   0.7   0.1   0:00.35 top
   5 root         0   0      0   0   0   I   0.3   0.0   0:00.09 kworker/0:0-eve
5623 kayon-p+  20   0 583404 39552 29428 S   0.3   0.5   0:03.50 xfce4-terminal
   1 root         0   0 225404 9188 6708 S   0.0   0.1   0:01.17 systemd
   2 root         0   0      0   0   0   S   0.0   0.0   0:00.00 kthreadd
   3 root        -20   0      0   0   0   I   0.0   0.0   0:00.00 rcu_gp
   4 root         0   0      0   0   0   I   0.0   0.0   0:00.00 rcu_par_gp
   6 root        -20   0      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         0   0      0   0   0   S   0.0   0.0   0:00.00 ksoftirqd/0
  10 root         0   0      0   0   0   I   0.0   0.0   0:00.35 rcu_sched
  11 root         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
  14 root         0   0      0   0   0   S   0.0   0.0   0:00.00 cpuphp/0
  15 root         0   0      0   0   0   S   0.0   0.0   0:00.00 cpuphp/1
  16 root        -51   0      0   0   0   S   0.0   0.0   0:00.00 idle_inject/1
  17 root         0   0      0   0   0   S   0.0   0.0   0:00.00 migration/1
  18 root         0   0      0   0   0   S   0.0   0.0   0:00.00 ksoftirqd/1
  20 root         0  -20   0   0   0   I   0.0   0.0   0:00.00 kworker/1:0H-kb
  21 root         0   0      0   0   0   S   0.0   0.0   0:00.00 cpuphp/2
  22 root        -51   0      0   0   0   S   0.0   0.0   0:00.00 idle_inject/2
  23 root         0   0      0   0   0   S   0.0   0.0   0:00.00 migration/2
  24 root         0   0      0   0   0   S   0.0   0.0   0:00.00 ksoftirqd/2
  26 root         0  -20   0   0   0   I   0.0   0.0   0:00.00 kworker/2:0H-kb
  27 root         0   0      0   0   0   S   0.0   0.0   0:00.00 cpuphp/3
  28 root        -51   0      0   0   0   S   0.0   0.0   0:00.00 idle_inject/3
  29 root         0   0      0   0   0   S   0.0   0.0   0:00.00 migration/3
  30 root         0   0      0   0   0   S   0.0   0.0   0:00.01 ksoftirqd/3
  32 root         0  -20   0   0   0   I   0.0   0.0   0:00.00 kworker/3:0H-kb
  33 root         0   0      0   0   0   S   0.0   0.0   0:00.00 kdevtmpfs
  34 root         0  -20   0   0   0   I   0.0   0.0   0:00.00 netns
  35 root         0   0      0   0   0   S   0.0   0.0   0:00.00 rcu_tasks_kthre
  36 root         0   0      0   0   0   S   0.0   0.0   0:00.03 kauditd
  37 root         0   0      0   0   0   S   0.0   0.0   0:00.00 khungtaskd
  38 root         0   0      0   0   0   S   0.0   0.0   0:00.00 oom_reaper
  39 root         0  -20   0   0   0   I   0.0   0.0   0:00.00 writeback
  40 root         0   0      0   0   0   S   0.0   0.0   0:00.00 kcompactd0
  41 root         0  25   5   0   0   S   0.0   0.0   0:00.00 ksmd

root@kayonpc21: /home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
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@kayonpc21:/home/kayon-pc21
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@kayonpc21:/home/kayon-pc21
File Edit View Terminal Tabs Help
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 0:00.00 ksoftirqd/1
20 root 0 -20 0 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 0:00.00 ksoftirqd/2
26 root 0 -20 0 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 0:00.01 ksoftirqd/3
32 root 0 -20 0 0 0 0 I 0,0 0,0 0:00.00 kworker/3:0H-kb
33 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kdevtmpfs
34 root 0 -20 0 0 0 0 I 0,0 0,0 0:00.00 netns
35 root 20 0 0 0 0 S 0,0 0,0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0 S 0,0 0,0 0:00.03 kauditd
37 root 20 0 0 0 0 S 0,0 0,0 0:00.00 khungtaskd
38 root 20 0 0 0 0 S 0,0 0,0 0:00.00 oom_reaper
39 root 0 -20 0 0 0 0 I 0,0 0,0 0:00.00 writeback
40 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kcompactd0
41 root 25 5 0 0 0 0 S 0,0 0,0 0:00.00 ksm
root@kayonpc21:/home/kayon-pc21# echo $SHELL
/bin/bash
root@kayonpc21:/home/kayon-pc21# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc21:/home/kayon-pc21# man ls
root@kayonpc21:/home/kayon-pc21# man who
root@kayonpc21:/home/kayon-pc21# who
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc21:/home/kayon-pc21# last
kayon-pc tty7 :0 Wed Oct 9 23:35 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:34 still running
kayon-pc tty7 :0 Tue Oct 8 17:23 - 17:31 (00:07)
reboot system boot 5.0.0-31-generic Tue Oct 8 17:22 - 17:31 (00:09)
kayon-pc tty7 :0 Tue Oct 8 16:18 - 17:20 (01:02)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:17 - 17:20 (01:03)
kayon-pc tty7 :0 Tue Oct 8 14:56 - 15:33 (00:37)
reboot system boot 5.0.0-31-generic Tue Oct 8 14:55 - 15:34 (00:38)
wtmp begins Tue Oct 8 14:54:59 2019
root@kayonpc21:/home/kayon-pc21# clear
```







```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
clear
root@kayonpc21:/home/kayon-pc21# pwd
/home/kayon-pc21
root@kayonpc21:/home/kayon-pc21# 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 clear
21 clear
22 lsb release -a
23 clear
24 apt purge pinguybuilder
25 clear
26 apt autoremove
27 clear
28 apt autoclean
29 clear
30 kdjb
31 cd ..
32 ls
33 rm -rf PinguyBuilder/*
34 ls
35 rm -rf PinguyBuilder
36 ls
37 cd master/
38 ls
39 rm -rf pinguybuilder_5.1-8_all.deb
40 clear
41 ls
42 clear
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
780 mkdir informatika
781 rmdir informatika
782 which mkdir
783 wheris mkdir
784 whereis mkdir
785 whereis mkdir
786 tree
787 free
788 pstree
789 w
790 yes please
791 halt
792 echo halo dunia
793 date
794 hostname
795 arch
796 uname -a
797 dmesg | more
798 uptime
799 whoami
800 who
801 id
802 last
803 finger
804 w
805 top
806 echo $SHELL
807 echo {con,pre}{sent,fer}{s,ed}
808 man ls
809 man who
810 who can tell me about linux
811 last
812 clear
813 fdisk -l
814 users
815 cat/etc/fstab
816 cal 2000
817 cal 9 1752
818 cal 10 2007
819 bc -l
820 echo 5+4 | bc-l
821 yes please
822 pwd
823 history
root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
root@kayonpc21: /home/kayon-pc21# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc21: /home/kayon-pc21# 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                    183416  0
xfs                    1236892  0
intel_rapl             24576  0
x86_pkg_temp_thermal  20480  0
intel_powerclamp       20480  0
coretemp               20480  0
kvm_intel              241664  0
kvm                    630784  1 kvm_intel
irqbypass              16384  1 kvm
crtclodif_pclmul       16384  1
crc32_pclmul           16384  0
ghash_clmulni_intel    16384  0
aesni_intel            372736  0
snd_hda_codec_hdmi     53248  1
aes_x86_64             20480  1 aesni_intel
crypto_simd            16384  1 aesni_intel
snd_hda_codec_realtek  114688  1
crypto                 24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
snd_hda_codec_generic  77824  1 snd_hda_codec_realtek
glue_helper            16384  1 aesni_intel
ledtrig_audio          16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
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            86016  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
intel_cstate           20480  0
joydev                 20480  0
input_leds             16384  0
intel_rapl_perf        16384  0
eeepc_wmi              16384  0
snd_hwdsp              20480  1 snd_hda_codec
snd_pcm                102400  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
asus_wmi               20672  1 eeepc_wmi
snd_seq_midi           20480  0
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
snd_timer              36864  2 snd_seq,snd_pcm
snd                    86016  15 snd_hda_codec_generic,snd_seq,snd_seq_device,snd_hda_codec_hdmi,snd_hwdsp,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek,snd_timer,snd_pcm,snd_rawmidi
lpc_ich                24576  0
soundcore              16384  1 snd
mei_me                 40960  0
mei                    106496  1 mei_me
nvidia_uvm             819200  0
mac_hid                16384  0
sch_fq_codel           20480  2
parport_pc             36864  1
ppdev                  24576  0
lp                     20480  0
parport                53248  3 parport_pc,lp,ppdev
ip_tables              32768  0
x_tables               40960  1 ip_tables
autofs4                45056  2
btrfs                 1175552  0
xor                    24576  1 btrfs
zstd_compress          163840  1 btrfs
raid6_pq               114688  1 btrfs
libcrc32c              16384  2 btrfs,xfs
dm_mirror              24576  0
dm_region_hash         20480  1 dm_mirror
dm_log                 20480  2 dm_region_hash,dm_mirror
hid_generic            16384  0
usbhid                 53248  0
hid                    126976  2 usbhid,hid_generic
nvidia_drm             49152  3
nvidia_modeset         1110016  3 nvidia_drm
nvidia                 18792448  85 nvidia_uvm,nvidia_modeset
drm_kms_helper         180224  1 nvidia_drm
syscopyarea            16384  1 drm_kms_helper
sysfillrect            16384  1 drm_kms_helper
sysimgblt              16384  1 drm_kms_helper
fb_sys_fops            16384  1 drm_kms_helper
drm                    483328  6 drm_kms_helper,nvidia_drm
ahci                   40960  1
r8169                  86016  0
libahci                32768  1 ahci
ipmi_devintf           20480  0
realtek                20480  0
ipmi_msghandler        102400  2 ipmi_devintf,nvidia
wmi                    20672  2 asus_wmi,wmi_bmf
video                  49152  1 asus_wmi
root@kayonpc21: /home/kayon-pc21#
```





```
Terminal - root@kayonpc21: /home/kayon-pc21

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 aperfperf 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 vmfi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bml avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapsgs
bogomips : 6584.94
clflush size : 64
cache alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

processor : 3
vendor_id : GenuineIntel
cpu family : 6
model : 80
model name : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping : 3
microcode : 0x27
cpu MHz : 928.869
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 aperfperf 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 vmfi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bml avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapsgs
bogomips : 6584.94
clflush size : 64
cache alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

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 aperfperf 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 vmfi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bml avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapsgs
bogomips : 6584.94
clflush size : 64
cache alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayonpc21:/home/kayon-pc21# ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
root@kayonpc21:/home/kayon-pc21# ls -l
total 96
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Desktop
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Okt  8 15:33 Documents
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Downloads
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Music
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Okt  9 17:15 Pictures
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Public
drwxr-xr-x 3 kayon-pc21 kayon-pc21 4096 Sep 14 10:34 snap
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Templates
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Videos
root@kayonpc21:/home/kayon-pc21# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc21:/home/kayon-pc21# whatis ls
ls (1)          - list directory contents
root@kayonpc21:/home/kayon-pc21# whatis mkdir
mkdir (1)       - make directories
mkdir (2)       - create a directory
root@kayonpc21:/home/kayon-pc21# mkdir informatika
root@kayonpc21:/home/kayon-pc21# rmdir informatika

Command 'rmdir' not found, did you mean:

  command 'rmdir' from deb coreutils

Try: apt install <deb name>

root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

root@kayonpc21:/home/kayon-pc21# touch rpltxt
root@kayonpc21:/home/kayon-pc21# rm rpltxt
root@kayonpc21:/home/kayon-pc21# which mkdir
/bin/mkdir
root@kayonpc21:/home/kayon-pc21# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc21:/home/kayon-pc21# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4009336      0   4009336   0% /dev
tmpfs           810368     1344    809024   1% /run
/dev/sda4       20026192 9340088  9645772  50% /
tmpfs           4051824      0   4051824   0% /dev/shm
tmpfs           5120         4     5116    1% /run/lock
tmpfs           4051824      0   4051824   0% /sys/fs/cgroup
tmpfs           810364     16    810348   1% /run/user/1000
root@kayonpc21:/home/kayon-pc21# du
4      ./informatika
4      ./snap/gnome-system-monitor
8      ./snap
44     ./gnome2/gtksourceview-1.0/language-specs
48     ./gnome2/gtksourceview-1.0
52     ./gnome2
4      ./gnupg/private-keys-v.1.d
8      ./gnupg
632    ./thumbnails/normal
632    ./thumbnails
8      ./config/ristretto
8      ./config/update-notifier
4      ./config/kicad
12     ./config/xfce4/terminal
8      ./config/xfce4/panel/launcher-12
8      ./config/xfce4/panel/launcher-14
8      ./config/xfce4/panel/launcher-15
8      ./config/xfce4/panel/launcher-13
40     ./config/xfce4/panel
76     ./config/xfce4/xfconf/xfce-perchannel-xml
80     ./config/xfce4/xfconf
4      ./config/xfce4/xfwm4
16     ./config/xfce4/desktop
160    ./config/xfce4
1016   ./config/libreoffice/4/user/database/biblio
1024   ./config/libreoffice/4/user/database
1152   ./config/libreoffice/4/user/backup
8      ./config/libreoffice/4/user/autotext
20     ./config/libreoffice/4/user/pack/database/biblio
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

0      ./local/share/applications
4      ./local/share/xfpanel-switch
4      ./local/share/nano
12     ./local/share/keyrings
552    ./local/share/NetcadExamPlayer/QtWebEngine/Default/GPUCache
556    ./local/share/NetcadExamPlayer/QtWebEngine/Default
560    ./local/share/NetcadExamPlayer/QtWebEngine
564    ./local/share/NetcadExamPlayer
688    ./local/share
692    ./local
4      ./Public
944    ./cache/gstreamer-1.0
4      ./cache/obexd
820    ./cache/gnome-software/icons
476    ./cache/gnome-software/odrs
12     ./cache/gnome-software/screenshots/112x63
88     ./cache/gnome-software/screenshots/752x423
184    ./cache/gnome-software/screenshots
188    ./cache/gnome-software/fwupd/remotes.d/lvfs
184    ./cache/gnome-software/fwupd/remotes.d
188    ./cache/gnome-software/fwupd
36     ./cache/gnome-software/cssresource
1628   ./cache/gnome-software
12     ./cache/update-manager-core
16     ./cache/fontconfig
8      ./cache/sessions/thumbs-kayonpc21:0
16     ./cache/sessions
588    ./cache/thumbnails/large
252    ./cache/thumbnails/normal
844    ./cache/thumbnails
4      ./cache/mozilla/firefox/znff6yxr.default
4      ./cache/mozilla/firefox/lnoszcz6.default-release/cache2/entries
13812  ./cache/mozilla/firefox/lnoszcz6.default-release/cache2/entries
13848  ./cache/mozilla/firefox/lnoszcz6.default-release/cache2
260    ./cache/mozilla/firefox/lnoszcz6.default-release/offlineCache
4      ./cache/mozilla/firefox/lnoszcz6.default-release/thumbnails
6552   ./cache/mozilla/firefox/lnoszcz6.default-release/safebrowsing/google4
7184   ./cache/mozilla/firefox/lnoszcz6.default-release/safebrowsing
13624  ./cache/mozilla/firefox/lnoszcz6.default-release/startupCache
34924  ./cache/mozilla/firefox/lnoszcz6.default-release
34932  ./cache/mozilla/firefox
34936  ./cache/mozilla
38412  ./cache
68140  ./cache
root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

38412 ../.cache
60140 .
root@kayonpc21:/home/kayon-pc21# free
              total        used        free      shared  buff/cache   available
Mem:           8193648      560328      6260440       10160       1282880       7252244
Swap:           947028            0         947028

root@kayonpc21:/home/kayon-pc21# pstree
systemd -- ModemManager -- 2*[{ModemManager}]
      |
      |-- NetworkManager -- dhcpcd
      |                       |
      |                       |-- 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 -- xfc4-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*[{xfc4-session}]
      |              |
      |              |-- 2*[{lightdm}]
      |
      |-- 2*[{lightdm}]
      |
      |-- lvm2
      |-- networkd-dispatcher -- {networkd-dispatcher}
      |-- nvidia-persistenced
      |-- packagekitd -- 2*[{packagekitd}]
      |-- polkitd -- 2*[{polkitd}]
      |-- pulseaudio -- {pulseaudio}
      |-- rsyslogd -- 3*[{rsyslogd}]
      |-- rtkit-daemon -- 2*[{rtkit-daemon}]
      |-- sshd
      |-- systemd -- (sd-pam)
      |              |
      |              |-- at-spi-bus-launcher -- dbus-daemon
      |              |              |
      |              |              |-- 3*[{at-spi-bus-launcher}]
      |              |              |
      |              |              |-- at-spi2-registrars -- 2*[{at-spi2-registrars}]
      |              |              |
      |              |              |-- dbus-daemon
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

      |              |
      |              |-- 3*[{at-spi-bus-launcher}]
      |              |
      |              |-- at-spi2-registrars -- 2*[{at-spi2-registrars}]
      |              |
      |              |-- dbus-daemon
      |              |
      |              |-- dconf-service -- 2*[{dconf-service}]
      |              |
      |              |-- gvfs-afc-volume -- 3*[{gvfs-afc-volume}]
      |              |
      |              |-- gvfs-goa-volume -- 2*[{gvfs-goa-volume}]
      |              |
      |              |-- gvfs-gphoto2-volume -- 2*[{gvfs-gphoto2-volume}]
      |              |
      |              |-- gvfs-mtp-volume -- 2*[{gvfs-mtp-volume}]
      |              |
      |              |-- gvfs-udisks2-volume -- 2*[{gvfs-udisks2-volume}]
      |              |
      |              |-- gvfsd -- gvfsd-trash -- 2*[{gvfsd-trash}]
      |              |              |
      |              |              |-- 2*[{gvfsd}]
      |              |
      |              |-- gvfsd-fuse -- 5*[{gvfsd-fuse}]
      |              |
      |              |-- indicator-messages -- 3*[{indicator-messages}]
      |              |
      |              |-- obexd
      |              |
      |              |-- xfc4-notifier -- 2*[{xfc4-notifier}]
      |              |
      |              |-- xfc4confd
      |
      |-- systemd-journald
      |-- systemd-logind
      |-- systemd-resolved
      |-- systemd-timesyncd -- {systemd-timesyncd}
      |-- systemd-udev
      |-- thermald -- {thermald}
      |-- udisksd -- 4*[{udisksd}]
      |-- unattended-upgr -- {unattended-upgr}
      |-- upowerd -- 2*[{upowerd}]
      |-- whoopsie -- 2*[{whoopsie}]
      |-- wpa_supplicant
      |-- xfc4-panel -- panel-1-whisker -- oosplash -- soffice.bin -- 7*[{soffice.bin}]
      |              |              |
      |              |              |-- 2*[{oosplash}]
      |              |              |
      |              |              |-- 2*[{panel-1-whisker}]
      |              |
      |              |-- panel-4-systray
      |              |
      |              |-- panel-5-notific -- 2*[{panel-5-notific}]
      |              |
      |              |-- panel-6-indicator -- 2*[{panel-6-indicator}]
      |              |
      |              |-- panel-7-statusn -- 2*[{panel-7-statusn}]
      |              |
      |              |-- panel-8-power-m -- 2*[{panel-8-power-m}]
      |              |
      |              |-- panel-9-pulseau -- 2*[{panel-9-pulseau}]
      |              |
      |              |-- xfc4-screensho -- 2*[{xfc4-screensho}]
      |              |
      |              |-- 2*[{xfc4-panel}]
      |
      |-- xfc4-power-man -- 2*[{xfc4-power-man}]
      |-- xfc4-terminal -- bash -- sudo -- su -- bash -- pstree
      |              |
      |              |-- 2*[{xfc4-terminal}]
      |
      |-- xfdesktop -- 2*[{xfdesktop}]
      |-- xfsettingsd -- 2*[{xfsettingsd}]
      |-- xfwm4

root@kayonpc21:/home/kayon-pc21#
```

## Penjelasan :

1. **Echo** : Menampilkan baris teks/menampilkan tulisan yang di buat setelah perintah echo dan itu tidak disimpan
2. **Date** : perintah untuk menampilkan informasi tanggal dan waktu saat ini
3. **Hostname** : Perintah untuk menampilkan host atau domain name sistem dan bisa pula digunakan untuk mengeset nama host sistem.
4. **Arch** : Berfungsi untuk menampilkan jenis arsitektur dari sebuah mesin.
5. **Uname -a** : Perintah untuk menampilkan informasi Sistem Operasi (distro, versi, nama mesin dll), perintah untuk melihat identitas mesin lebih lengkap.
6. **Dmesg | more** : Mencetak pesan-pesan pada waktu proses boot dengan menampilkan perlayar
7. **Uptime** : Mengetahui informasi tentang lama sistem berjalan setelah terakhir reboot atau mati
8. **Whoami** : perintah untuk menanyakan siapa yang sekarang sedang bekerja (user apa yang sedang digunakan).
9. **Who** : Perintah untuk menampilkan siapa saja yang sedang login. Perintah ini akan menampilkan informasi mengenai login name, jenis terminal, waktu login dan remote hostname untuk setiap user yang saat itu sedang login.
10. **Id** : Menampilkan identitas users
11. **Last** : Berfungsi untuk menampilkan daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file `/var/log/wtmp`.
12. **Finger** : Perintah untuk melihat informasi finger
13. **W** : Perintah untuk mengetahui siapa saja yang sedang aktif.
14. **Top** : Melihat semua proses yang sedang berjalan, diurutkan dari proses yang paling besar.
15. **Echo \$SHELL** : Bin/Bash.
16. **Echo {con,pre}{sent,fer}{s,ed}** : Akan menyusun banyak kata-kata
17. **Man ls** : Menampilkan informasi tentang perintah “ls”
18. **Man who** : Menampilkan informasi tentang perintah “who”
19. **.Who can tell me about linux** : Gagal (Karena tidak bisa).
20. **Last** : Berfungsi untuk menampilkan daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file `/var/log/wtmp`.
21. **Clear** : Perintah untuk menghapus layar.



22. **Fdisk -l** : Menampilkan list partisi pada perangkat.
23. **Users** : Berfungsi untuk menampilkan daftar user yang sedang aktif pada sebuah perangkat.
24. **Cat /etc/fstab** : Melihat file system yang telah disetup
25. **Cal 2000** : Untuk melihat kalemder ditahun 2000.
26. **Cal 9 1752** : Untuk melihat kalender dibulan September tahun 1752.
27. **Cal 10 2007** : Untuk melihat kalender dibulan Oktober tahun 2007.
28. **Bc -l** : Menampilkan versi bc (bahasa kalkulator).
29. **Echo 5+4 | bc-l** : Menampilkan hasil penjumlahan yaitu 9.
30. **Yes please** : Cetak String "Please" sampai interrupt.
31. **Pwd** : Digunakan untuk memperlihatkan di direktori mana posisi kita berada sekarang.
32. **History** : Berfungsi untuk menampilkan riwayat perintah yang digunakan.
33. **Tail -f /var/log/mesage** :
34. **Lsmod** : Untuk menampilkan module /driver yang diload ke kernel.
35. **Ps -axu** : Melihat seluruh proses yang dijalankan,walaupun tanpa terminal control, juga ditampilkan nama dari user untuk setiap proses
36. **Lspci** : Melihat spesifikasi hardware dari komputer yang sedang kita gunakan.
37. **Free** : Melihat informasi penggunaan memory (RAM dan swap).
38. **Cat /proc/cpuinfo** : CPU info. Melihat pada/proc directory yang bukan merupakan file nyata (Not real files).
39. **Finger root** : Melihat informasi finger root.
40. **Reboot** : Berfungsi untuk menghidupkan ulang atau melakukan *restart* sistem sebuah komputer yang sedang hidup atau sedang berjalan.
41. **Halt** : Perintah ini hanya bisa dijalankan oleh super useratau Anda harus login sebagai root. Perintah ini untuk memberitahu kernel supaya mematikan sistem atau shutdown.
42. **Ls** : Printah untuk menampilkan isi dari suatu direktori.
43. **Ls -l** : Perintah yang untuk melihat dengan daftar list dari suatu direktory.
44. **Ls -l/home** : Melihat semua file lengkap yang ada dihome.
45. **Whatis ls** : Menampilkan manual atau deskripsi dari perintah ls.
46. **Whatis mkdir** : Menampilkan manual atau deskripsi dari perintah mkdir.

47. **Mkdir informatika** : Digunakan membuat sebuah directory informatika.
48. **Rmdir informatika** : Untuk menghapus direktori informatika.
49. **Rm rpl.txt** : Menghapus file rpl.txt .
50. **Which mkdir** : Mengetahui letak file perintah.
51. **Where ls** : Menunjukkan lokasi file ls.
52. **Df** : Digunakan untuk melihat report sisa ruang disk space pada linux sistem.
53. **Du** : Digunakan untuk melihat summary ukuran pemakaian volume untuk setiap folder atau file yang ada dalam sistem.
54. **Free** : Melihat informasi penggunaan memory (RAM dan swap).
55. **Pstree** :Mmenampilkan semua proses pada sistem dalam bentuk hirarki/parent