

Nama: Rama Dhanu Darmawan S.
NIM: L200180110

```
Terminal - root@kayon-pc28: /home/kayon-pc28
File Edit View Terminal Tabs Help
kayon-pc28@kayon-pc28:~$ sudo su
[info] password for kayon-pc28:
root@kayon-pc28: /home/kayon-pc28# echo hello world
hello world
root@kayon-pc28: /home/kayon-pc28# date
Tue Oct 10 07:24:18 GMT 2023
root@kayon-pc28: /home/kayon-pc28# hostname
kayon-pc28
root@kayon-pc28: /home/kayon-pc28# arch
x86_64
root@kayon-pc28: /home/kayon-pc28# uname -a
Linux kayon-pc28 5.0.0-31-generic #33-18.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2023 x86_64 x86_64 GNU/Linux
root@kayon-pc28: /home/kayon-pc28# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-
02-26
[ 0.000000] Linux version 5.0.0-31-generic (builddeb1) (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 2023 (Ubuntu 5.0.0-31-18.04.1-generic 5.0.21)
[ 0.000000] Command line: BOOT Parameters: root=/dev/sda5 5.0.0-31-generic root=UUID
c219d239-c234-471c-8525-955a6b093a6d rw quiet splash vt.handoff=1
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point regi
sters'
[ 0.000000] x86/fpu: Intel_GenuineIntel
[ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_size[2]: 256
[ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 632 bytes,
using 'standard' format.
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x00000000000007ff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000000800-0x0000000000000fff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000001000-0x0000000000000fff] reserved
root@kayon-pc28: /home/kayon-pc28# uptime
07:31:51 up 10 min, 1 user, load average: 0.44, 0.36, 0.20
root@kayon-pc28: /home/kayon-pc28# whoami
root
root@kayon-pc28: /home/kayon-pc28# who
kayon-pc28 tty7 2023-10-10 07:21 (i0)
root@kayon-pc28: /home/kayon-pc28# id
uid=0(root) gid=0(root) groups=(root)
root@kayon-pc28: /home/kayon-pc28# last
kayon-pc28 tty7 :0 Thu Oct 10 07:21 : goss - no logout
reboot system boot 5.0.0-31-generic Thu Oct 10 07:21 still running
kayon-pc28 tty7 :0 Wed Oct 9 23:34 - 17:34 (-5:30)
reboot system boot 5.0.0-31-generic Wed Oct 9 23:34 - 17:34 (-5:30)
kayon-pc28 tty7 :0 Tue Oct 8 15:15 - 17:29 (01:13)
reboot system boot 5.0.0-31-generic Tue Oct 8 15:15 - 17:29 (01:14)
kayon-pc28 tty7 :0 Tue Oct 8 14:57 - 15:34 (00:37)
reboot system boot 5.0.0-31-generic Tue Oct 8 14:56 - 15:34 (00:38)
root@kayon-pc28: /home/kayon-pc28# wtmp begins Tue Oct 8 14:53:11 2023
root@kayon-pc28: /home/kayon-pc28# finger
login Name Tty Idle login Time Office Office Phone
kayon-pc28 kayon-pc28 tty7 11 Oct 10 07:21 (i0)
root@kayon-pc28: /home/kayon-pc28# w
07:32:32 up 11 min, 1 user, load average: 0.22, 0.26, 0.19
USER TTY FROM LOGIN# IDLE JCPU PCPU WHAT
kayon-pc28 tty7 :0 07:21 11:00 14.34s 0.0s /bin/sh /etc/sudoedit/sudoedit -- /etc/X11/xinit/xserverrc
root@kayon-pc28: /home/kayon-pc28# top
top - 07:33:04 up 11 min, 1 user, load average: 0.13, 0.25, 0.18
Tasks: 187 total, 1 running, 140 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 99.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
Mem: 8183648 total, 6680608 free, 709856 used, 1246560 buff/cache
Mem Swap: 947808 total, 947808 free, 0 used, 8067224 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM     time+  COMMAND
    072 root        20   0 380596 80240 67604 S  2.7  1.1  0:15.17 xorg
   1322 kayon-pc  20   0 405028 37608 29140 S  2.7  0.5  0:03.12 psm2-l-whisker
   2759 kayon-pc  20   0 583432 39052 28916 S  1.7  0.5  0:01.74 xfce4-terminal
   1010 root        20   0 0        0     0 S  0.0  0.0  0:00.70 nv-qsmem
   1043 kayon-pc  20   0 101012 21800 17436 S  0.3  0.3  0:01.57 rfm4
```

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File Edit View Terminal Tabs Help
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root@kayon-pc28: /home/kayon-pc28# who
kayon-pc28 tty7 2023-10-10 07:21 (i0)
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kayon-pc28 tty7 :0 Thu Oct 10 07:21 : goss - no logout
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Tasks: 187 total, 1 running, 140 sleeping, 0 stopped, 0 zombie
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Mem: 8183648 total, 6680608 free, 709856 used, 1246560 buff/cache
Mem Swap: 947808 total, 947808 free, 0 used, 8067224 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM     time+  COMMAND
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   1010 root        20   0 0        0     0 S  0.0  0.0  0:00.70 nv-qsmem
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```



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Terminal - root@kayon-pc28:/home/kayon-pc28
File Edit View Terminal Tabs Help
print ? instead of nongraphic characters

--show-control-chars
show nongraphic characters as-is (the default, unless program is 'ls' and output is a terminal)

-Q, --quote-name
enclose entry names in double quotes

--quoting-style=WORD
use quoting style WORD for entry names: literal, locale, shell, shell-always, shell-escape, shell-escape-always, c, escape

-r, --reverse
reverse order while sorting

-R, --recursive
list subdirectories recursively

-s, --size
print the allocated size of each file, in blocks

-S
sort by file size, largest first

--sort=WORD
sort by WORD instead of name: (-Q), size (-S), time (-t), version (-v), extension (-X)

--time=WORD
with -l, show time as WORD instead of default modification time: atime or access or use (-u); ctime or status (-c); also use specified time as sort key if --sort=time (newest first)

--time-style=STYLE
with -l, show times using style STYLE: full-iso, long-iso, iso, locale, or +FORMAT; FORMAT is interpreted like in 'date'; if FORMAT is FORMAT1=newline=FORMAT2, then FORMAT1 applies to non-recent files and FORMAT2 to recent files; if STYLE is prefixed with 'posix-', STYLE takes effect only outside the POSIX locale

-t
sort by modification time, newest first

-T, --tabsize=COLS
assume tab stops at each COLS instead of 8

-u
with -lt: sort by, and show, access time; with -l: show access time and sort by name; otherwise: sort by access time, newest first

-U
do not sort; list entries in directory order

-v
natural sort of (version) numbers within text

Manual page ls(1) line 219/207 77% (press h for help or q to quit)
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Terminal - root@kayon-pc28:/home/kayon-pc28
File Edit View Terminal Tabs Help
set output width to COLS. 0 means no limit

-x
list entries by lines instead of by columns

-X
sort alphabetically by entry extension

-Z, --context
print any security context of each file

-l
list one file per line. Avoid '\a' with -q or -b

--help
display this help and exit

--version
output version information and exit

The SIZE argument is an integer and optional unit (example: 10K is 10*1024). Units are K,M,G,T,P,E,Z,Y (powers of 1024) or KB,MB,... (powers of 1000).

Using color to distinguish file types is disabled both by default and with --color=never. With --color=auto, ls emits color codes only when standard output is connected to a terminal. The LS_COLORS environment variable can change the settings. Use the dircolors command to set it.

Exit status:
0      if OK,
1      if minor problems (e.g., cannot access subdirectory),
2      if serious trouble (e.g., cannot access command-line argument).

AUTHOR
Written by Richard M. Stallman and David Mackenzie.

REPORTING BUGS
GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
Report translation bugs to <http://translationproject.org/team/>

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This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.

SEE ALSO
Full documentation at: <http://www.gnu.org/software/coreutils/ls>
or available locally via: info '(coreutils) ls invocation'

GNU coreutils 8.28
Manual page ls(1) line 204/207 (END) (press h for help or q to quit)
```



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Terminal - root@kayon-pc28:/home/kayon-pc28

File Edit View Terminal Tabs Help

--F, --runlevel
    print current runlevel

--s, --short
    print only name, line, and time (default)

--t, --time
    print last system clock change

--T, --msg
    add user's message status as +, - or ?

--u, --users
    list users logged in

--message
    same as -T

--writeable
    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/utmp as FILE is common. If ARG1 ARG2 given, - pressed: 'm i' or 'won likes' are usual.

AUTHOR
    Written by Joseph Arceneaux, David MacKenzie, and Michael Stone.

REPORTING BUGS
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    This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.

SEE ALSO
    Full documentation at: <http://www.gnu.org/software/coreutils/who>
    or available locally via: info '(coreutils) who invocation'

GNU coreutils 8.25
Manual page who(1) line 40/83 (END) (press h for help or q to quit)
January 2018 WHO(1)
```

```
root@kayon-pc28:/home/kayon-pc28# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc28:/home/kayon-pc28# last
kayon-pc tty7 :0 Thu Oct 10 07:21 gone - no logout
reboot system boot 5.0.0-31-generic Thu Oct 10 07:21 still running
kayon-pc tty7 :0 Wed Oct 9 23:34 - 17:34 (-5:59)
reboot system boot 5.0.0-31-generic Wed Oct 9 23:34 - 17:34 (-5:59)
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wtmp begins Tue Oct 8 14:53:11 2019
root@kayon-pc28:/home/kayon-pc28#
```

```
Terminal - root@kayon-pc28:/home/kayon-pc28

File Edit View Terminal Tabs Help

root@kayon-pc28:/home/kayon-pc28# cal 9 1752
September 1752
Su Mo Tu We Th Fr 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@kayon-pc28:/home/kayon-pc28# cal 10 2007
October 2007
Su Mo Tu We Th Fr 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@kayon-pc28:/home/kayon-pc28# bc -l
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type 'warranty'.
quit
root@kayon-pc28:/home/kayon-pc28# echo 5+4 | bc -l
9
root@kayon-pc28:/home/kayon-pc28#
```

```
% Terminal - root@kayen-pc28: /home/kayen-pc28
File Edit View Terminal Tabs Help
reboot system boot 5.8.0-31-generic Tue Oct 8 14:56 - 15:34 (00:38)

wtmp begin Tue Oct 8 14:53:11 2019
root@kayen-pc28:/home/kayen-pc28# clear

root@kayen-pc28:/home/kayen-pc28# fdisk -l
Disk /dev/sda: 460,8 GiB, 500107862016 bytes, 976773184 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: 0x30e575a7

Device Boot Start End Sectors Size Id Type
/dev/sda1 * 2048 204847 204800 100M 7 HPFS/NTFS/exFAT
/dev/sda2 206540 41754047 41753840 199.1G 7 HPFS/NTFS/exFAT
/dev/sda3 419432440 915411071 516378624 246.2G 7 HPFS/NTFS/exFAT
/dev/sda4 915411072 976773183 61362081 29.5G 83 Linux

root@kayen-pc28:/home/kayen-pc28# users
kayen-pc28
root@kayen-pc28:/home/kayen-pc28# 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/sda1 during installation
UUID=2159d289-d284-471c-b525-b54aebd99abd / ext4 errors=remount-ro 0 1
/swapfile none
swap sw 0 0

root@kayen-pc28:/home/kayen-pc28# cal 2086
2086
January February March
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
1 1 2 3 4 5 1 2 3 4
2 3 4 5 6 7 8 4 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 May June
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
1 1 2 3 4 5 6 1 2 3 4
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

July August September
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
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 16 17 18 19 20 21 22
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

October November December
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
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
```

```
% Terminal - root@kayen-pc28: /home/kayen-pc28
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/sda1 during installation
UUID=2159d289-d284-471c-b525-b54aebd99abd / ext4 errors=remount-ro 0 1
/swapfile none
swap sw 0 0

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2086
January February March
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
1 1 2 3 4 5 1 2 3 4
2 3 4 5 6 7 8 4 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 May June
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
1 1 2 3 4 5 6 1 2 3 4
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

July August September
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
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 16 17 18 19 20 21 22
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

October November December
Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su Mi Se Sa Ra Ka Ju Su
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
```



```
Terminal - root@kayen-pc28: /home/kayen-pc28
72 clear
73 apt install ubiquity-slide
74 clear
75 apt install ubiquity-slideshows-subsets
76 apt install ubiquity-frontend-gtk
77 rm -rf /etc/issue
78 rm -rf /etc/lab-release
79 ls
80 cd ..
81 cd PingpyBuilder/
82 ls
83 cd /usr/src/
84 ls
85 cd ..
86 ls
87 scp Kayen_8.1_BUT22.iso hrianadi124@192.168.24.2:/home/hrianadi124
88 hrianadi124
89 clear
90 apt update
91 apt upgrade
92 clear
93 add-apt-repository ppa:nmx/ppa
94 apt install --reinstall python3
95 ls
96 clear
97 add-apt-repository ppa:nmx/ppa
98 apt install nmx-icm-theme
99 clear
100 apt install nmx-icm-theme-*
101 clear
102 apt install ubiquity-slideshows-subsets
103 apt install --reinstall ubiquity-slideshows-subsets
104 apt autoremove
105 apt autoclean
106 clear
107 clear
108 apt update
109 clear
110 apt update
111 apt upgrade
112 clear
113 clear
114 rm -rf /etc/apt/sources.list
115 clear
116 apt update
```

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Terminal - root@kayen-pc28: /home/kayen-pc28
72 clear
73 apt install ubiquity-slide
74 clear
75 apt install ubiquity-slideshows-subsets
76 apt install ubiquity-frontend-gtk
77 rm -rf /etc/issue
78 rm -rf /etc/lab-release
79 ls
80 cd ..
81 cd PingpyBuilder/
82 ls
83 cd /usr/src/
84 ls
85 cd ..
86 ls
87 scp Kayen_8.1_BUT22.iso hrianadi124@192.168.24.2:/home/hrianadi124
88 hrianadi124
89 clear
90 apt update
91 apt upgrade
92 clear
93 add-apt-repository ppa:nmx/ppa
94 apt install --reinstall python3
95 ls
96 clear
97 add-apt-repository ppa:nmx/ppa
98 apt install nmx-icm-theme
99 clear
100 apt install nmx-icm-theme-*
101 clear
102 apt install ubiquity-slideshows-subsets
103 apt install --reinstall ubiquity-slideshows-subsets
104 apt autoremove
105 apt autoclean
106 clear
107 clear
108 apt update
109 clear
110 apt update
111 apt upgrade
112 clear
113 clear
114 rm -rf /etc/apt/sources.list
115 clear
116 apt update
```



```
% Terminal - root@kayen-pc28: /home/kayen-pc28
File Edit View Terminal Tabs Help
027 date
028 exit
029 echo hello world
030 date
031 hostname
032 arch
033 uname -a
034 dmesg | more
035 uptime
036 whoami
037 who
038 id
039 last
040 finger
041 w
042 top
043 echo $SHELL
044 echo $(cat /dev/urandom | fold -w 100 | tr -dc 'a-z0-9' | fold -w 100 | xargs echo)
045 man ls
046 man ls
047 man who
048 who can tell me about linux
049 last
050 clear
051 fdisk -l
052 users
053 cat /etc/passwd
054 cal 2008
055 cal 9 1952
056 cal 10 2007
057 bc -l
058 echo 5+4 | bc -l
059 echo 5+4 | bc -l
060 yes please
061 cal 9 1952
062 cal 10 2007
063 clear
064 cal 9 1952
065 cal 10 2007
066 bc -l
067 echo 5+4 | bc -l
068 yes please
069 pwd
070 history
root@kayen-pc28: /home/kayen-pc28
```

```
% Terminal - root@kayen-pc28: /home/kayen-pc28
File Edit View Terminal Tabs Help
081 20072 2 4000 001 001 001
082 49152 1 4000 001
root@kayen-pc28: /home/kayen-pc28 ps aux
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND
root 1 0.0 0.1 22540 8200 ? S 07:21 0:01 sshd: root [sshd]
root 2 0.0 0.0 0 0 ? S 07:21 0:00 [kthreadd]
root 3 0.0 0.0 0 0 ? I< 07:21 0:00 [rcu_gp]
root 4 0.0 0.0 0 0 ? I< 07:21 0:00 [rcu_per_gp]
root 6 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/0:00-4h]
root 8 0.0 0.0 0 0 ? I< 07:21 0:00 [m_purpose_wq]
root 9 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/0]
root 10 0.0 0.0 0 0 ? I 07:21 0:00 [rcu_sched]
root 11 0.0 0.0 0 0 ? S 07:21 0:00 [migration/0]
root 12 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/0]
root 13 0.0 0.0 0 0 ? I 07:21 0:00 [kworker/0:1-00h]
root 14 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/0]
root 15 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/1]
root 16 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/1]
root 17 0.0 0.0 0 0 ? S 07:21 0:00 [migration/1]
root 18 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/1]
root 20 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/1:00-4h]
root 21 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/2]
root 22 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/2]
root 23 0.0 0.0 0 0 ? S 07:21 0:00 [migration/2]
root 24 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/2]
root 26 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/2:00-4h]
root 27 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/3]
root 28 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/3]
root 29 0.0 0.0 0 0 ? S 07:21 0:00 [migration/3]
root 30 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/3]
root 32 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/3:00-4h]
root 33 0.0 0.0 0 0 ? S 07:21 0:00 [kworker/3]
root 34 0.0 0.0 0 0 ? I< 07:21 0:00 [netns]
root 35 0.0 0.0 0 0 ? S 07:21 0:00 [rcu_tasks_kthre]
root 36 0.0 0.0 0 0 ? S 07:21 0:00 [kworker/3]
root 37 0.0 0.0 0 0 ? S 07:21 0:00 [kworker/3]
root 38 0.0 0.0 0 0 ? S 07:21 0:00 [mm_reaper]
root 39 0.0 0.0 0 0 ? I< 07:21 0:00 [writeback]
root 40 0.0 0.0 0 0 ? S 07:21 0:00 [kcompactd0]
root 41 0.0 0.0 0 0 ? S 07:21 0:00 [kswapd]
root 42 0.0 0.0 0 0 ? S 07:21 0:00 [kswapd0]
root 43 0.0 0.0 0 0 ? I< 07:21 0:00 [crypto]
root 44 0.0 0.0 0 0 ? I< 07:21 0:00 [kintegrityd]
root 45 0.0 0.0 0 0 ? I< 07:21 0:00 [kblockd]
root 46 0.0 0.0 0 0 ? I< 07:21 0:00 [tpe_dev_wq]
```

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Terminal - root@kayon-pc28: /home/kayon-pc28

kayon-pc 2743 0.0 0.0 30832 4736 pts/0  Ss  07:23  0:00 bash
root 2772 0.0 0.0 73424 4476 pts/0  S  07:25  0:00 sudo su
root 2773 0.0 0.0 72732 3900 pts/0  S  07:25  0:00 su
root 2774 0.0 0.0 30084 5088 pts/0  S  07:25  0:00 bash
root 2876 0.0 0.1 148152 8212 ?  Ss  07:26  0:00 /usr/sbin/cupsd -l
root 2880 0.0 0.1 383520 11040 ?  Ssl  07:26  0:00 /usr/sbin/cups-browsed
root 2883 0.0 0.0 0 0 ?  I  07:26  0:00 [worker/0-0-cgr]
kayon-pc 2935 0.0 0.0 144016 8216 ?  Sl  07:27  0:00 /usr/lib/office/program/soffice --writer
root 2962 2.7 3.6 1244160 240436 ?  Sl  07:27  0:17 /usr/lib/office/program/soffice.bin --writer --splash-pipe=5
root 2967 0.0 0.0 0 0 ?  I  07:27  0:01 [worker/0-0-w]
kayon-pc 3128 1.5 4.3 323372 350012 ?  Sl  07:31  0:36 /usr/lib/firefox/firefox
kayon-pc 3180 0.0 1.8 2408360 151184 ?  Sl  07:31  0:01 /usr/lib/firefox/firefox -contentproc -childID 1 -isForBrowser -prefiles 1 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 3238 0.2 1.9 2638240 161760 ?  Sl  07:31  0:04 /usr/lib/firefox/firefox -contentproc -childID 2 -isForBrowser -prefiles 238 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 3247 0.0 1.3 2568244 100736 ?  Sl  07:31  0:00 /usr/lib/firefox/firefox -contentproc -childID 3 -isForBrowser -prefiles 8155 -prefMapSize 193125 -parentBuildID 20191002193559
root 4097 0.0 0.0 0 0 ?  I  07:36  0:00 [worker/1-0-cgr]
kayon-pc 4130 0.9 2.2 2715280 170252 ?  Sl  07:38  0:13 /usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefiles 8340 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 4151 0.9 1.6 2649080 151060 ?  Sl  07:40  0:11 /usr/lib/firefox/firefox -contentproc -childID 8 -isForBrowser -prefiles 8436 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 4220 0.4 1.5 2638460 157032 ?  Sl  07:40  0:00 /usr/lib/firefox/firefox -contentproc -childID 7 -isForBrowser -prefiles 8436 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 4386 0.1 1.7 2500540 142028 ?  Sl  07:44  0:01 /usr/lib/firefox/firefox -contentproc -childID 9 -isForBrowser -prefiles 8467 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 4457 0.0 0.0 2327852 76548 ?  Sl  07:45  0:00 /usr/lib/firefox/firefox -contentproc -childID 10 -isForBrowser -prefiles 8467 -prefMapSize 193125 -parentBuildID 20191002193559
root 4745 0.0 0.0 0 0 ?  I  07:48  0:00 [worker/0-1-w]
root 4922 0.1 0.0 0 0 ?  I  07:53  0:00 [worker/0-1-w]
root 4923 0.0 0.0 0 0 ?  I  07:53  0:00 [worker/2-1-w]
root 4924 0.0 0.0 25980 6328 ?  S  07:53  0:00 /sbin/dhclient -d -q -sf /usr/lib/NetworkManager/m-dhcp-helper -pf /run/dhclient-esp80.pid -lf /var/lib/NetworkManager/dhcl
root 4981 0.3 0.0 0 0 ?  I  07:54  0:01 [worker/0-1-w]
root 5249 0.0 0.0 47216 3602 pts/0  Ss  08:01  0:00 ps -aux
root@kayon-pc28:/home/kayon-pc28# 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 d3)
00:1c.2 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (rev d3)
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 H01 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 NV108 PCIe (rev a1)
01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1003/1005 PCIe to PCI Bridge (rev 04)
root@kayon-pc28:/home/kayon-pc28#
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Terminal - root@kayon-pc28: /home/kayon-pc28

01:00.1 Audio device: NVIDIA Corporation NV108 PCIe (rev a1)
01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1003/1005 PCIe to PCI Bridge (rev 04)
root@kayon-pc28:/home/kayon-pc28# free
              total        used        free      shared  buff/cache   available
Mem:            8103648    1143652    6959996    124540    1341008    6563280
Swap:            947008           0    947008

root@kayon-pc28:/home/kayon-pc28# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i3-4130 CPU @ 3.30GHz
stepping       : 3
microcode     : 0x27
cpu MHz        : 396.326
cache size     : 6144 KB
physical id    : 0
siblings       : 4
core id        : 0
cpu cores      : 4
apicid         : 0
initial apicid : 0
fpu            : yes
fpu_exception : yes
cpuid level    : 13
wp              : yes
flags           : fpu vme de pse tsc mtr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts mpxi mma fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon pti mtrr-prm repn smp stop_topology mwaitx tsc cpuid spectre_v1 spectre_v2 mba tpm2 tpm2_v0 tpm2_v1 tpm2_v2 tpm2_v3 tpm2_v4 tpm2_v5 tpm2_v6 tpm2_v7 tpm2_v8 tpm2_v9 tpm2_v10 tpm2_v11 tpm2_v12 tpm2_v13 tpm2_v14 tpm2_v15 tpm2_v16 tpm2_v17 tpm2_v18 tpm2_v19 tpm2_v20 tpm2_v21 tpm2_v22 tpm2_v23 tpm2_v24 tpm2_v25 tpm2_v26 tpm2_v27 tpm2_v28 tpm2_v29 tpm2_v30 tpm2_v31 tpm2_v32 tpm2_v33 tpm2_v34 tpm2_v35 tpm2_v36 tpm2_v37 tpm2_v38 tpm2_v39 tpm2_v40 tpm2_v41 tpm2_v42 tpm2_v43 tpm2_v44 tpm2_v45 tpm2_v46 tpm2_v47 tpm2_v48 tpm2_v49 tpm2_v50 tpm2_v51 tpm2_v52 tpm2_v53 tpm2_v54 tpm2_v55 tpm2_v56 tpm2_v57 tpm2_v58 tpm2_v59 tpm2_v60 tpm2_v61 tpm2_v62 tpm2_v63 tpm2_v64 tpm2_v65 tpm2_v66 tpm2_v67 tpm2_v68 tpm2_v69 tpm2_v70 tpm2_v71 tpm2_v72 tpm2_v73 tpm2_v74 tpm2_v75 tpm2_v76 tpm2_v77 tpm2_v78 tpm2_v79 tpm2_v80 tpm2_v81 tpm2_v82 tpm2_v83 tpm2_v84 tpm2_v85 tpm2_v86 tpm2_v87 tpm2_v88 tpm2_v89 tpm2_v90 tpm2_v91 tpm2_v92 tpm2_v93 tpm2_v94 tpm2_v95 tpm2_v96 tpm2_v97 tpm2_v98 tpm2_v99 tpm2_v100 tpm2_v101 tpm2_v102 tpm2_v103 tpm2_v104 tpm2_v105 tpm2_v106 tpm2_v107 tpm2_v108 tpm2_v109 tpm2_v110 tpm2_v111 tpm2_v112 tpm2_v113 tpm2_v114 tpm2_v115 tpm2_v116 tpm2_v117 tpm2_v118 tpm2_v119 tpm2_v120 tpm2_v121 tpm2_v122 tpm2_v123 tpm2_v124 tpm2_v125 tpm2_v126 tpm2_v127 tpm2_v128 tpm2_v129 tpm2_v130 tpm2_v131 tpm2_v132 tpm2_v133 tpm2_v134 tpm2_v135 tpm2_v136 tpm2_v137 tpm2_v138 tpm2_v139 tpm2_v140 tpm2_v141 tpm2_v142 tpm2_v143 tpm2_v144 tpm2_v145 tpm2_v146 tpm2_v147 tpm2_v148 tpm2_v149 tpm2_v150 tpm2_v151 tpm2_v152 tpm2_v153 tpm2_v154 tpm2_v155 tpm2_v156 tpm2_v157 tpm2_v158 tpm2_v159 tpm2_v160 tpm2_v161 tpm2_v162 tpm2_v163 tpm2_v164 tpm2_v165 tpm2_v166 tpm2_v167 tpm2_v168 tpm2_v169 tpm2_v170 tpm2_v171 tpm2_v172 tpm2_v173 tpm2_v174 tpm2_v175 tpm2_v176 tpm2_v177 tpm2_v178 tpm2_v179 tpm2_v180 tpm2_v181 tpm2_v182 tpm2_v183 tpm2_v184 tpm2_v185 tpm2_v186 tpm2_v187 tpm2_v188 tpm2_v189 tpm2_v190 tpm2_v191 tpm2_v192 tpm2_v193 tpm2_v194 tpm2_v195 tpm2_v196 tpm2_v197 tpm2_v198 tpm2_v199 tpm2_v200 tpm2_v201 tpm2_v202 tpm2_v203 tpm2_v204 tpm2_v205 tpm2_v206 tpm2_v207 tpm2_v208 tpm2_v209 tpm2_v210 tpm2_v211 tpm2_v212 tpm2_v213 tpm2_v214 tpm2_v215 tpm2_v216 tpm2_v217 tpm2_v218 tpm2_v219 tpm2_v220 tpm2_v221 tpm2_v222 tpm2_v223 tpm2_v224 tpm2_v225 tpm2_v226 tpm2_v227 tpm2_v228 tpm2_v229 tpm2_v230 tpm2_v231 tpm2_v232 tpm2_v233 tpm2_v234 tpm2_v235 tpm2_v236 tpm2_v237 tpm2_v238 tpm2_v239 tpm2_v240 tpm2_v241 tpm2_v242 tpm2_v243 tpm2_v244 tpm2_v245 tpm2_v246 tpm2_v247 tpm2_v248 tpm2_v249 tpm2_v250 tpm2_v251 tpm2_v252 tpm2_v253 tpm2_v254 tpm2_v255 tpm2_v256 tpm2_v257 tpm2_v258 tpm2_v259 tpm2_v260 tpm2_v261 tpm2_v262 tpm2_v263 tpm2_v264 tpm2_v265 tpm2_v266 tpm2_v267 tpm2_v268 tpm2_v269 tpm2_v270 tpm2_v271 tpm2_v272 tpm2_v273 tpm2_v274 tpm2_v275 tpm2_v276 tpm2_v277 tpm2_v278 tpm2_v279 tpm2_v280 tpm2_v281 tpm2_v282 tpm2_v283 tpm2_v284 tpm2_v285 tpm2_v286 tpm2_v287 tpm2_v288 tpm2_v289 tpm2_v290 tpm2_v291 tpm2_v292 tpm2_v293 tpm2_v294 tpm2_v295 tpm2_v296 tpm2_v297 tpm2_v298 tpm2_v299 tpm2_v300 tpm2_v301 tpm2_v302 tpm2_v303 tpm2_v304 tpm2_v305 tpm2_v306 tpm2_v307 tpm2_v308 tpm2_v309 tpm2_v310 tpm2_v311 tpm2_v312 tpm2_v313 tpm2_v314 tpm2_v315 tpm2_v316 tpm2_v317 tpm2_v318 tpm2_v319 tpm2_v320 tpm2_v321 tpm2_v322 tpm2_v323 tpm2_v324 tpm2_v325 tpm2_v326 tpm2_v327 tpm2_v328 tpm2_v329 tpm2_v330 tpm2_v331 tpm2_v332 tpm2_v333 tpm2_v334 tpm2_v335 tpm2_v336 tpm2_v337 tpm2_v338 tpm2_v339 tpm2_v340 tpm2_v341 tpm2_v342 tpm2_v343 tpm2_v344 tpm2_v345 tpm2_v346 tpm2_v347 tpm2_v348 tpm2_v349 tpm2_v350 tpm2_v351 tpm2_v352 tpm2_v353 tpm2_v354 tpm2_v355 tpm2_v356 tpm2_v357 tpm2_v358 tpm2_v359 tpm2_v360 tpm2_v361 tpm2_v362 tpm2_v363 tpm2_v364 tpm2_v365 tpm2_v366 tpm2_v367 tpm2_v368 tpm2_v369 tpm2_v370 tpm2_v371 tpm2_v372 tpm2_v373 tpm2_v374 tpm2_v375 tpm2_v376 tpm2_v377 tpm2_v378 tpm2_v379 tpm2_v380 tpm2_v381 tpm2_v382 tpm2_v383 tpm2_v384 tpm2_v385 tpm2_v386 tpm2_v387 tpm2_v388 tpm2_v389 tpm2_v390 tpm2_v391 tpm2_v392 tpm2_v393 tpm2_v394 tpm2_v395 tpm2_v396 tpm2_v397 tpm2_v398 tpm2_v399 tpm2_v400 tpm2_v401 tpm2_v402 tpm2_v403 tpm2_v404 tpm2_v405 tpm2_v406 tpm2_v407 tpm2_v408 tpm2_v409 tpm2_v410 tpm2_v411 tpm2_v412 tpm2_v413 tpm2_v414 tpm2_v415 tpm2_v416 tpm2_v417 tpm2_v418 tpm2_v419 tpm2_v420 tpm2_v421 tpm2_v422 tpm2_v423 tpm2_v424 tpm2_v425 tpm2_v426 tpm2_v427 tpm2_v428 tpm2_v429 tpm2_v430 tpm2_v431 tpm2_v432 tpm2_v433 tpm2_v434 tpm2_v435 tpm2_v436 tpm2_v437 tpm2_v438 tpm2_v439 tpm2_v440 tpm2_v441 tpm2_v442 tpm2_v443 tpm2_v444 tpm2_v445 tpm2_v446 tpm2_v447 tpm2_v448 tpm2_v449 tpm2_v450 tpm2_v451 tpm2_v452 tpm2_v453 tpm2_v454 tpm2_v455 tpm2_v456 tpm2_v457 tpm2_v458 tpm2_v459 tpm2_v460 tpm2_v461 tpm2_v462 tpm2_v463 tpm2_v464 tpm2_v465 tpm2_v466 tpm2_v467 tpm2_v468 tpm2_v469 tpm2_v470 tpm2_v471 tpm2_v472 tpm2_v473 tpm2_v474 tpm2_v475 tpm2_v476 tpm2_v477 tpm2_v478 tpm2_v479 tpm2_v480 tpm2_v481 tpm2_v482 tpm2_v483 tpm2_v484 tpm2_v485 tpm2_v486 tpm2_v487 tpm2_v488 tpm2_v489 tpm2_v490 tpm2_v491 tpm2_v492 tpm2_v493 tpm2_v494 tpm2_v495 tpm2_v496 tpm2_v497 tpm2_v498 tpm2_v499 tpm2_v500 tpm2_v501 tpm2_v502 tpm2_v503 tpm2_v504 tpm2_v505 tpm2_v506 tpm2_v507 tpm2_v508 tpm2_v509 tpm2_v510 tpm2_v511 tpm2_v512 tpm2_v513 tpm2_v514 tpm2_v515 tpm2_v516 tpm2_v517 tpm2_v518 tpm2_v519 tpm2_v520 tpm2_v521 tpm2_v522 tpm2_v523 tpm2_v524 tpm2_v525 tpm2_v526 tpm2_v527 tpm2_v528 tpm2_v529 tpm2_v530 tpm2_v531 tpm2_v532 tpm2_v533 tpm2_v534 tpm2_v535 tpm2_v536 tpm2_v537 tpm2_v538 tpm2_v539 tpm2_v540 tpm2_v541 tpm2_v542 tpm2_v543 tpm2_v544 tpm2_v545 tpm2_v546 tpm2_v547 tpm2_v548 tpm2_v549 tpm2_v550 tpm2_v551 tpm2_v552 tpm2_v553 tpm2_v554 tpm2_v555 tpm2_v556 tpm2_v557 tpm2_v558 tpm2_v559 tpm2_v560 tpm2_v561 tpm2_v562 tpm2_v563 tpm2_v564 tpm2_v565 tpm2_v566 tpm2_v567 tpm2_v568 tpm2_v569 tpm2_v570 tpm2_v571 tpm2_v572 tpm2_v573 tpm2_v574 tpm2_v575 tpm2_v576 tpm2_v577 tpm2_v578 tpm2_v579 tpm2_v580 tpm2_v581 tpm2_v582 tpm2_v583 tpm2_v584 tpm2_v585 tpm2_v586 tpm2_v587 tpm2_v588 tpm2_v589 tpm2_v590 tpm2_v591 tpm2_v592 tpm2_v593 tpm2_v594 tpm2_v595 tpm2_v596 tpm2_v597 tpm2_v598 tpm2_v599 tpm2_v600 tpm2_v601 tpm2_v602 tpm2_v603 tpm2_v604 tpm2_v605 tpm2_v606 tpm2_v607 tpm2_v608 tpm2_v609 tpm2_v610 tpm2_v611 tpm2_v612 tpm2_v613 tpm2_v614 tpm2_v615 tpm2_v616 tpm2_v617 tpm2_v618 tpm2_v619 tpm2_v620 tpm2_v621 tpm2_v622 tpm2_v623 tpm2_v624 tpm2_v625 tpm2_v626 tpm2_v627 tpm2_v628 tpm2_v629 tpm2_v630 tpm2_v631 tpm2_v632 tpm2_v633 tpm2_v634 tpm2_v635 tpm2_v636 tpm2_v637 tpm2_v638 tpm2_v639 tpm2_v640 tpm2_v641 tpm2_v642 tpm2_v643 tpm2_v644 tpm2_v645 tpm2_v646 tpm2_v647 tpm2_v648 tpm2_v649 tpm2_v650 tpm2_v651 tpm2_v652 tpm2_v653 tpm2_v654 tpm2_v655 tpm2_v656 tpm2_v657 tpm2_v658 tpm2_v659 tpm2_v660 tpm2_v661 tpm2_v662 tpm2_v663 tpm2_v664 tpm2_v665 tpm2_v666 tpm2_v667 tpm2_v668 tpm2_v669 tpm2_v670 tpm2_v671 tpm2_v672 tpm2_v673 tpm2_v674 tpm2_v675 tpm2_v676 tpm2_v677 tpm2_v678 tpm2_v679 tpm2_v680 tpm2_v681 tpm2_v682 tpm2_v683 tpm2_v684 tpm2_v685 tpm2_v686 tpm2_v687 tpm2_v688 tpm2_v689 tpm2_v690 tpm2_v691 tpm2_v692 tpm2_v693 tpm2_v694 tpm2_v695 tpm2_v696 tpm2_v697 tpm2_v698 tpm2_v699 tpm2_v700 tpm2_v701 tpm2_v702 tpm2_v703 tpm2_v704 tpm2_v705 tpm2_v706 tpm2_v707 tpm2_v708 tpm2_v709 tpm2_v710 tpm2_v711 tpm2_v712 tpm2_v713 tpm2_v714 tpm2_v715 tpm2_v716 tpm2_v717 tpm2_v718 tpm2_v719 tpm2_v720 tpm2_v721 tpm2_v722 tpm2_v723 tpm2_v724 tpm2_v725 tpm2_v726 tpm2_v727 tpm2_v728 tpm2_v729 tpm2_v730 tpm2_v731 tpm2_v732 tpm2_v733 tpm2_v734 tpm2_v735 tpm2_v736 tpm2_v737 tpm2_v738 tpm2_v739 tpm2_v740 tpm2_v741 tpm2_v742 tpm2_v743 tpm2_v744 tpm2_v745 tpm2_v746 tpm2_v747 tpm2_v748 tpm2_v749 tpm2_v750 tpm2_v751 tpm2_v752 tpm2_v753 tpm2_v754 tpm2_v755 tpm2_v756 tpm2_v757 tpm2_v758 tpm2_v759 tpm2_v760 tpm2_v761 tpm2_v762 tpm2_v763 tpm2_v764 tpm2_v765 tpm2_v766 tpm2_v767 tpm2_v768 tpm2_v769 tpm2_v770 tpm2_v771 tpm2_v772 tpm2_v773 tpm2_v774 tpm2_v775 tpm2_v776 tpm2_v777 tpm2_v778 tpm2_v779 tpm2_v780 tpm2_v781 tpm2_v782 tpm2_v783 tpm2_v784 tpm2_v785 tpm2_v786 tpm2_v787 tpm2_v788 tpm2_v789 tpm2_v790 tpm2_v791 tpm2_v792 tpm2_v793 tpm2_v794 tpm2_v795 tpm2_v796 tpm2_v797 tpm2_v798 tpm2_v799 tpm2_v800 tpm2_v801 tpm2_v802 tpm2_v803 tpm2_v804 tpm2_v805 tpm2_v806 tpm2_v807 tpm2_v808 tpm2_v809 tpm2_v810 tpm2_v811 tpm2_v812 tpm2_v813 tpm2_v814 tpm2_v815 tpm2_v816 tpm2_v817 tpm2_v818 tpm2_v819 tpm2_v820 tpm2_v821 tpm2_v822 tpm2_v823 tpm2_v824 tpm2_v825 tpm2_v826 tpm2_v827 tpm2_v828 tpm2_v829 tpm2_v830 tpm2_v831 tpm2_v832 tpm2_v833 tpm2_v834 tpm2_v835 tpm2_v836 tpm2_v837 tpm2_v838 tpm2_v839 tpm2_v840 tpm2_v841 tpm2_v842 tpm2_v843 tpm2_v844 tpm2_v845 tpm2_v846 tpm2_v847 tpm2_v848 tpm2_v849 tpm2_v850 tpm2_v851 tpm2_v852 tpm2_v853 tpm2_v854 tpm2_v855 tpm2_v856 tpm2_v857 tpm2_v858 tpm2_v859 tpm2_v860 tpm2_v861 tpm2_v862 tpm2_v863 tpm2_v864 tpm2_v865 tpm2_v866 tpm2_v867 tpm2_v868 tpm2_v869 tpm2_v870 tpm2_v871 tpm2_v872 tpm2_v873 tpm2_v874 tpm2_v875 tpm2_v876 tpm2_v877 tpm2_v878 tpm2_v879 tpm2_v880 tpm2_v881 tpm2_v882 tpm2_v883 tpm2_v884 tpm2_v885 tpm2_v886 tpm2_v887 tpm2_v888 tpm2_v889 tpm2_v890 tpm2_v891 tpm2_v892 tpm2_v893 tpm2_v894 tpm2_v895 tpm2_v896 tpm2_v897 tpm2_v898 tpm2_v899 tpm2_v900 tpm2_v901 tpm2_v902 tpm2_v903 tpm2_v904 tpm2_v905 tpm2_v906 tpm2_v907 tpm2_v908 tpm2_v909 tpm2_v910 tpm2_v911 tpm2_v912 tpm2_v913 tpm2_v914 tpm2_v915 tpm2_v916 tpm2_v917 tpm2_v918 tpm2_v919 tpm2_v920 tpm2_v921 tpm2_v922 tpm2_v923 tpm2_v924 tpm2_v925 tpm2_v926 tpm2_v927 tpm2_v928 tpm2_v929 tpm2_v930 tpm2_v931 tpm2_v932 tpm2_v933 tpm2_v934 tpm2_v935 tpm2_v936 tpm2_v937 tpm2_v938 tpm2_v939 tpm2_v940 tpm2_v941 tpm2_v942 tpm2_v943 tpm2_v944 tpm2_v945 tpm2_v946 tpm2_v947 tpm2_v948 tpm2_v949 tpm2_v950 tpm2_v951 tpm2_v952 tpm2_v953 tpm2_v954 tpm2_v955 tpm2_v956 tpm2_v957 tpm2_v958 tpm2_v959 tpm2_v960 tpm2_v961 tpm2_v962 tpm2_v963 tpm2_v964 tpm2_v965 tpm2_v966 tpm2_v967 tpm2_v968 tpm2_v969 tpm2_v970 tpm2_v971 tpm2_v972 tpm2_v973 tpm2_v974 tpm2_v975 tpm2_v976 tpm2_v977 tpm2_v978 tpm2_v979 tpm2_v980 tpm2_v981 tpm2_v982 tpm2_v983 tpm2_v984 tpm2_v985 tpm2_v986 tpm2_v987 tpm2_v988 tpm2_v989 tpm2_v990 tpm2_v991 tpm2_v992 tpm2_v993 tpm2_v994 tpm2_v995 tpm2_v996 tpm2_v997 tpm2_v998 tpm2_v999 tpm2_v1000 tpm2_v1001 tpm2_v1002 tpm2_v1003 tpm2_v1004 tpm2_v1005 tpm2_v1006 tpm2_v1007 tpm2_v1008 tpm2_v1009 tpm2_v1010 tpm2_v1011 tpm2_v1012 tpm2_v1013 tpm2_v1014 tpm2_v1015 tpm2_v1016 tpm2_v1017 tpm2_v1018 tpm2_v1019 tpm2_v1020 tpm2_v1021 tpm2_v1022 tpm2_v1023 tpm2_v1024 tpm2_v1025 tpm2_v1026 tpm2_v1027 tpm2_v1028 tpm2_v1029 tpm2_v1030 tpm2_v1031 tpm2_v1032 tpm2_v1033 tpm2_v1034 tpm2_v1035 tpm2_v1036 tpm2_v1037 tpm2_v1038 tpm2_v1039 tpm2_v1040 tpm2_v1041 tpm2_v1042 tpm2_v1043 tpm2_v1044 tpm2_v1045 tpm2_v1046 tpm2_v1047 tpm2_v1048 tpm2_v1049 tpm2_v1050 tpm2_v1051 tpm2_v1052 tpm2_v1053 tpm2_v1054 tpm2_v1055 tpm2_v1056 tpm2_v1057 tpm2_v1058 tpm2_v1059 tpm2_v1060 tpm2_v1061 tpm2_v1062 tpm2_v1063 tpm2_v1064 tpm2_v1065 tpm2_v1066 tpm2_v1067 tpm2_v1068 tpm2_v1069 tpm2_v1070 tpm2_v1071 tpm2_v1072 tpm2_v1073 tpm2_v1074 tpm2_v1075 tpm2_v1076 tpm2_v1077 tpm2_v1078 tpm2_v1079 tpm2_v1080 tpm2_v1081 tpm2_v1082 tpm2_v1083 tpm2_v1084 tpm2_v1085 tpm2_v1086 tpm2_v1087 tpm2_v1088 tpm2_v1089 tpm2_v1090 tpm2_v1091 tpm2_v1092 tpm2_v1093 tpm2_v1094 tpm2_v1095 tpm2_v1096 tpm2_v1097 tpm2_v1098 tpm2_v1099 tpm2_v1100 tpm2_v1101 tpm2_v1102 tpm2_v1103 tpm2_v1104 tpm2_v1105 tpm2_v1106 tpm2_v1107 tpm2_v1108 tpm2_v1109 tpm2_v1110 tpm2_v1111 tpm2_v1112 tpm2_v1113 tpm2_v1114 tpm2_v1115 tpm2_v1116 tpm2_v1117 tpm2_v1118 tpm2_v1119 tpm2_v1120 tpm2_v1121 tpm2_v1122 tpm2_v1123 tpm2_v1124 tpm2_v1125 tpm2_v1126 tpm2_v1127 tpm2_v1128 tpm2_v1129 tpm2_v1130 tpm2_v1131 tpm2_v1132 tpm2_v1133 tpm2_v1134 tpm2_v1135 tpm2_v1136 tpm2_v1137 tpm2_v1138 tpm2_v1139 tpm2_v1140 tpm2_v1141 tpm2_v1142 tpm2_v1143 tpm2_v1144 tpm2_v1145 tpm2_v1146 tpm2_v1147 tpm2_v1148 tpm2_v1149 tpm2_v1150 tpm2_v1151 tpm2_v1152 tpm2_v1153 tpm2_v1154 tpm2_v1155 tpm2_v1156 tpm2_v1157 tpm2_v1158 tpm2_v1159 tpm2_v1160 tpm2_v1161 tpm2_v1162 tpm2_v1163 tpm2_v1164 tpm2_v1165 tpm2_v1166 tpm2_v1167 tpm2_v1168 tpm2_v1169 tpm2_v1170 tpm2_v1171 tpm2_v1172 tpm2_v1173 tpm2_v1174 tpm2_v1175 tpm2_v1176 tpm2_v1177 tpm2_v1178 tpm2_v1179 tpm2_v1180 tpm2_v1181 tpm2_v1182 tpm2_v1183 tpm2_v1184 tpm2_v1185 tpm2_v1186 tpm2_v1187 tpm2_v1188 tpm2_v1189 tpm2_v1190 tpm2_v1191 tpm2_v1192 tpm2_v1193 tpm2_v1194 tpm2_v1195 tpm2_v1196 tpm2_v1197 tpm2_v1198 tpm2_v1199 tpm2_v1200 tpm2_v1201 tpm2_v1202 tpm2_v1203 tpm2_v1204 tpm2_v1205 tpm2_v1206 tpm2_v1207 tpm2_v1208 tpm2_v1209 tpm2_v1210 tpm2_v1211 tpm2_v1212 tpm2_v1213 tpm2_v1214 tpm2_v1215 tpm2_v1216 tpm2_v1217 tpm2_v1218 tpm2_v1219 tpm2_v1220 tpm2_v1221 tpm2_v1222 tpm2_v1223 tpm2_v1224 tpm2_v1225 tpm2_v1226 tpm2_v1227 tpm2_v1228 tpm2_v1229 tpm2_v1230 tpm2_v1231 tpm2_v1232 tpm2_v1233 tpm2_v1234 tpm2_v1235 tpm2_v1236 tpm2_v1237 tpm2_v1238 tpm2_v1239 tpm2_v1240 tpm2_v1241 tpm2_v1242 tpm2_v1243 tpm2_v1244 tpm2_v1245 tpm2_v1246 tpm2_v1247 tpm2_v1248 tpm2_v1249 tpm2_v1250 tpm2_v1251 tpm2_v1252 tpm2_v1253 tpm2_v1254 tpm2_v1255 tpm2_v1256 tpm2_v1257 tpm2_v1258 tpm2_v1259 tpm2_v1260 tpm2_v1261 tpm2_v1262 tpm2_v1263 tpm2_v1264 tpm2_v1265 tpm2_v1266 tpm2_v1267 tpm2_v1268 tpm2_v1269 tpm2_v1270 tpm2_v1271 tpm2_v1272 tpm2_v1273 tpm2_v1274 tpm2_v1275 tpm2_v1276 tpm2_v1277 tpm2_v1278 tpm2_v1279 tpm2_v1280 tpm2_v1281 tpm2_v1282 tpm2_v1283 tpm2_v1284 tpm2_v1285 tpm2_v1286 tpm2_v1287 tpm2_v1288 tpm2_v1289 tpm2_v1290 tpm2_v1291 tpm2_v1292 tpm2_v1293 tpm2_v1294 tpm2_v1295 tpm2_v1296 tpm2_v1297 tpm2_v1298 tpm2_v1299 tpm2_v1300 tpm2_v1301 tpm2_v1302 tpm2_v1303 tpm2_v1304 tpm2_v1305 tpm2_v1306 tpm2_v1307 tpm2_v1308 tpm2_v1309 tpm2_v1310 tpm2_v1311 tpm2
```

```
Terminal - root@kayon-pc28: /home/kayon-pc28

id2 arns invpcid vauxvmt dthrm ida arat pla pta ad_clear flash lid
bugs : cpu_mitimus spectre_v1 spectre_v2 spec_store_bypass l1tf mds mowps
bogomips : 4504.31
cf_flash_size : 64
cache_alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

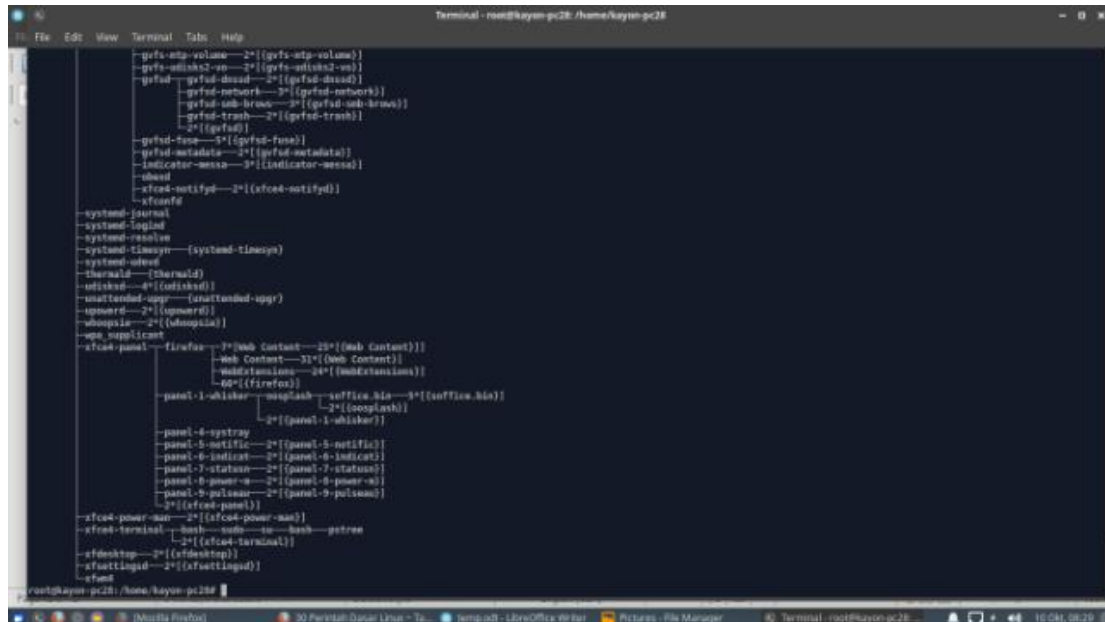
processor : 0
vendor_id : GenuineIntel
cpu family : 6
model : 60
model name : Intel(R) Core(TM) i3-4150 CPU @ 3.30GHz
stepping : 3
microcode : 0x27
cpu MHz : 390.794
cache size : 3144 KB
physical id : 0
siblings : 4
core id : 0
cpu cores : 4
apicid : 0
initial apicid : 0
fpu : yes
fpu exception : yes
cpuid level : 13
cpuid : 0
fpu : yes
bugs : fpu_vme de pos tsc nor pae mce cdx apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mma fxsr sse sse2 ss ht tm pbe syscall nx pdpebgh rdtsup ln constant_tsc arch_perfmon pti bts rep_good nopl stpncpy mwaitx tsc cpuid aperfmperf pni pclmulqdq dtherm monitor ds_cpl vme sse4_1 sse4_2 x2apic mwaitx pti tsc_therm
bogomips : 4504.31
cf_flash_size : 64
cache_alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayon-pc28:/home/kayon-pc28# finger root
Login: root Name: root
Directory: /root Shell: /bin/bash
Never logged in.
No mail.
No Plan.

root@kayon-pc28:/home/kayon-pc28#
```

```
Terminal - root@kayon-pc28: /home/kayon-pc28

root@kayon-pc28:/home/kayon-pc28# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayon-pc28:/home/kayon-pc28# ls -l
total 32
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Desktop
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Oct 18 00:04 Documents
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Downloads
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Music
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Oct 18 00:05 Pictures
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Public
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Templates
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Videos
root@kayon-pc28:/home/kayon-pc28# ls -l /none
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayon-pc28:/home/kayon-pc28# whatis ls
ls (1)      - list directory contents
root@kayon-pc28:/home/kayon-pc28# whatis mkdir
mkdir (1)   - make directories
mkdir (2)   - create a directory
root@kayon-pc28:/home/kayon-pc28# mkdir informatika
root@kayon-pc28:/home/kayon-pc28# rm -rf rpl.txt
root@kayon-pc28:/home/kayon-pc28# which mkdir
/bin/mkdir
root@kayon-pc28:/home/kayon-pc28# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayon-pc28:/home/kayon-pc28# df
Filesystem      1k-blocks    Used Available Use% Mounted on
udev            4001336      0   4001336   0% /dev
tmpfs           818368     1344    818234   1% /run
/dev/sda4       28827216  8748576  18288256  47% /
tmpfs           4051524    10148    4051524   3% /dev/shm
tmpfs           5120         4         5120    1% /run/lock
tmpfs           4051524      0   4051524   0% /sys/fs/cgroup
tmpfs           818368      20    818348   1% /run/user/1000
root@kayon-pc28:/home/kayon-pc28# du
du: cannot not find
root@kayon-pc28:/home/kayon-pc28# du
4
./Templates
44  ./gome2/gtksourceview-1.0/language-specs
48  ./gome2/gtksourceview-1.0
52  ./gome2
```

Ubuntu

Linux Mint Cinnamon

Distro ini merupakan pengembangan dari kode program dasar Ubuntu. Linux Mint menggunakan repository yang sama dengan Ubuntu. Jadi pengguna tidak perlu khawatir masalah repository, karena Ubuntu melakukan pembaruan pada umumnya hanya ketika program sudah final atau setelah beberapa kali proses pengecekan. Hal ini berarti apa pun yang berada di repository Linux Mint cukup

aman karena pengguna tidak perlu berhubungan dengan crash atau gangguan tidak terduga.

Zorin OS

Zorin OS merupakan distro yang terbuat dari kode program Ubuntu. Tampilan distro ini disusun sedemikian rupa sehingga menjadi alternatif yang pas untuk menggantikan Windows. Beberapa distro menyediakan tampilan sederhana berbeda dengan Windows. Namun Zorin malah menampilkan seluruh tampilan mirip dengan Windows.

Kali Linux

Kali Linux merupakan pengembangan dari distro Debian. Di dalam distro ini terdapat sebagian besar penetration testing untuk keamanan dan forensik. Dengan menerapkan model rolling release, setiap tool yang ada di distro ini selalu dalam keadaan up-to-date.

Backbox

BackBox merupakan pengembangan dari distro Ubuntu yang bertujuan untuk melakukan penetration testing dan pengujian keamanan suatu sistem. Distro ini merupakan satu di antara beberapa distro populer lain di bidangnya.

2. 20 perintah yang sama diantara masing masing distro

- ◆ man <perintah> untuk melihat panduan
- ◆ <perintah> -help untuk panduan ringkas
- ◆ sudo untuk super user
- ◆ ls untuk melihat direktori
- ◆ cd untuk masuk ke direktori
- ◆ mkdir <nama folder> untuk membuat folder
- ◆ pwd untuk melihat direktori aktif
- ◆ vim untuk membuka text editor
- ◆ cp <asal> <tujuan> untuk menyalin file
- ◆ mv <asal> <tujuan> untuk memindahkan folder
- ◆ rm <file> untuk menghapus file
- ◆ find <nama file> untuk mencari file
- ◆ history untuk melihat riwayat
- ◆ cat untuk melihat isi file
- ◆ echo untuk menampilkan baris teks
- ◆ grep untuk mencari kata
- ◆ wc untuk menampilkan baris baru
- ◆ sort untuk mengurutkan
- ◆ chmod untuk mengganti hak akses
- ◆ chown mengganti hak milik
- ◆ su untuk mengganti user id

3. Penjelasan init 0 - init 6

Init 0 digunakan utk maintenance, diagnostic hardware, booting selain dari disk misal dari cdroom.

command : init 0, shutdown -i0

Init 1 Single user mode, digunakan utk menambahkan patches, backup/restore system. di level ini kita bisa menjalankan/access semua file tapi user lain tidak bisa login ke dalam sytem kita.

command: init 1, shutdown -i1

Init 2 multiuser mode, biasanya utk digunakan dalam network. tapi disini tidak ada resources yang di share.

command: init2, shutdown -i2

Init 3 memperluas multiuser mode, kita bisa membuat local resources share pada network kita. sehingga kita bisa berbagi data di level ini dalam network.
command: init 3, shutdown -i3

Init 4 untuk alternative multiuser mode tetapi saat ini belum bisa digunakan.
command: init4, shutdown -i4

Init 5 utk shutdown/ power off.
command: init5, shutdown -i5

Init 6 men stop operating system kemudian reboot dan kembali ke initdefault nya yang ada di /etc/inittab
command: init 6, shutdown -i6

4. Maksud dari perintah Quota

Fitur untuk mengatur pembatasan pemakaian ruang dari Harddisk. Pada Linux kita bisa mengatur limitasi penggunaan harddisk berdasarkan user dan root.