

Laporan Pratikum

Sistem Operasi Dasar

Pertemuan 2



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JURUSAN TEKNIK INFORMATIKA
POLITEKNIK CALTEX RIAU
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1. Ubahlah informasi finger pada komputer anda?
⇒ chfn

```
laurinmadelau@laurinmadelau-VirtualBox:~$ chfn
Password:
Changing the user information for laurinmadelau
Enter the new value, or press ENTER for the default
    Full Name: LaurinMadelau
    Room Number []: 1
    Work Phone []: 1
    Home Phone []: 1
laurinmadelau@laurinmadelau-VirtualBox:~$
```

Analisa :

Perintah chfn digunakan untuk mengubah informasi pada user.

2. Lihatlah user yang sedang aktif?
⇒ Who

```
laurinmadelau@laurinmadelau-VirtualBox:~$ who
laurinmadelau :0                2021-03-25 20:34 (:0)
```

Analisa :

Perintah who digunakan untuk menampilkan user yang sedang login dan bekerja dalam server. Untuk penggunaanya hanya perlu mengetikkan who saja pada di terminal

3. perintah yang digunakan melihat kalender 1 tahun penuh
⇒ cal -y

```
root@laurinmadelau-VirtualBox:/home/laurinmadelau# cal -y
      2021
      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 2          1 2 3 4 5 6      1 2 3 4 5 6
      3 4 5 6 7 8 9      7 8 9 10 11 12 13      7 8 9 10 11 12 13
     10 11 12 13 14 15 16     14 15 16 17 18 19 20     14 15 16 17 18 19 20
     17 18 19 20 21 22 23     21 22 23 24 25 26 27     21 22 23 24 25 26 27
     24 25 26 27 28 29 30     28                28 29 30 31
     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 2 3          1          1 2 3 4 5
      4 5 6 7 8 9 10      2 3 4 5 6 7 8      6 7 8 9 10 11 12
     11 12 13 14 15 16 17     9 10 11 12 13 14 15     13 14 15 16 17 18 19
     18 19 20 21 22 23 24     16 17 18 19 20 21 22     20 21 22 23 24 25 26
     25 26 27 28 29 30      23 24 25 26 27 28 29     27 28 29 30
                        30 31

      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 2 3          1 2 3 4 5 6 7      1 2 3 4
      4 5 6 7 8 9 10      8 9 10 11 12 13 14      5 6 7 8 9 10 11
     11 12 13 14 15 16 17     15 16 17 18 19 20 21     12 13 14 15 16 17 18
     18 19 20 21 22 23 24     22 23 24 25 26 27 28     19 20 21 22 23 24 25
     25 26 27 28 29 30 31     29 30 31                26 27 28 29 30

      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          1 2 3 4 5 6      1 2 3 4
      3 4 5 6 7 8 9      7 8 9 10 11 12 13      5 6 7 8 9 10 11
     10 11 12 13 14 15 16     14 15 16 17 18 19 20     12 13 14 15 16 17 18
     17 18 19 20 21 22 23     21 22 23 24 25 26 27     19 20 21 22 23 24 25
     24 25 26 27 28 29 30     28 29 30                26 27 28 29 30 31
     31
```

Analisa :

Perintah cal -y digunakan untuk menampilkan kalender dalam satu tahun, dan memberikan tanda blok pada tanggal untuk hari ini.

4. Bagaimana anda melihat manual "cal"?

⇒ Man cal

```
CAL(1)                                BSD General Commands Manual                                CAL(1)

NAME
  cal, ncal - displays a calendar and the date of Easter

SYNOPSIS
  cal [-31jy] [-A number] [-B number] [-d yyyy-mm] [[month] year]
  cal [-31j] [-A number] [-B number] [-d yyyy-mm] -M month [year]
  ncal [-C] [-31jy] [-A number] [-B number] [-d yyyy-mm] [[month] year]
  ncal [-C] [-31j] [-A number] [-B number] [-d yyyy-mm] -M month [year]
  ncal [-31bhjpwysk] [-A number] [-B number] [-d yyyy-mm-dd] [-d yyyy-mm] [-s country_code] [[month] year]
  ncal [-31bhjwysk] [-A number] [-B number] [-d yyyy-mm] [year]

DESCRIPTION
  The cal utility displays a simple calendar in traditional format and ncal offers an alternative layout, more options and the date of Easter. The new format is a little cramped but it makes a year fit on a 25x80 terminal. If arguments are not specified, the current month is displayed.

  The options are as follows:

  -h      Turns off highlighting of today.
  -j      Display Julian Calendar, if combined with the -o option, display date of Orthodox Easter according to the Julian Calendar.
  -e      Display date of Easter (for western churches).
  -j      Display Julian days (days one-based, numbered from January 1).
  -M month Display the specified month. If month is specified as a decimal number, appending 'f' or 'p' displays the same month of the following or previous year respectively.
  -o      Display date of Orthodox Easter (Greek and Russian Orthodox Churches).
  -p      Print the country codes and switching days from Julian to Gregorian calendar as they are assumed by ncal. The country code as determined from the local environment is marked with an asterisk.
  -s country_code Assume the switch from Julian to Gregorian Calendar at the date associated with the country_code. If not specified, ncal tries to guess the switch date from the local environment or falls back to September 2, 1752. This was when Great Britain and her colonies switched to the Gregorian Calendar.
  -w      Print the number of the week below each week column.
  -y      Display a calendar for the specified year. This option is implied when a year but no month are specified on the command line.
  -3      Display the previous, current and next month surrounding today.
  -1      Display only the current month. This is the default.

Manual page cal(1) line 1 (press h for help or q to quit)
```

Analisa :

Perintah man digunakan untuk menampilkan halaman manual atau dokumentasi dari sebuah perintah. Perintah man cal akan menampilkan manual dari cal seperti format penulisan dan fungsi dari perintah cal tersebut

5. bagaimana melihat perintah manual ls dengan kata kunci sort?

⇒ Man ls /sort

```
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 with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; 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 -li: 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
  -f do not sort, enable -au, disable -ls --color
  -F, --classify

Manual page ls(1) line 1 (press h for help or q to quit)
```

Analisa :

Perintah man ls digunakan untuk melihat isi direktori secara manual. /sort digunakan untuk mengurutkan hasil dari pembacaan file

⇒ Man who

```

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

  -n
      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

Manual page who(1) line 1 (press h for help or q to quit)

```

Analisa :

Perintah man who digunakan untuk melihat user yang sedang aktif secara manual

7. Tampilkan semua file termasuk yang hidden file pada /etc

⇒ `Ls -a /etc/`

[illegible]

Analisa :

Perintah `ls -a` digunakan untuk menampilkan semua file/direktori yang tersembunyi (dihidden) pada direktori `/etc`

8. Tampilkan semua file secara lengkap pada /etc

⇒ `ls -l /etc`

```
root@laurinmadelau-VirtualBox:/home/laurinmadelau# ls -l /etc
total 1104
drwxr-xr-x 3 root root 4096 Feb 10 01:51 acpi
-rw-r--r-- 1 root root 3028 Feb 10 01:47 adduser.conf
drwxr-xr-x 3 root root 4096 Feb 10 01:48 alsa
drwxr-xr-x 2 root root 4096 Mar 20 04:46 alternatives
-rw-r--r-- 1 root root 401 Jul 17 2019 anacrontab
-rw-r--r-- 1 root root 433 Okt 2 2017 apg.conf
drwxr-xr-x 5 root root 4096 Feb 10 01:49 apm
drwxr-xr-x 3 root root 4096 Feb 10 01:51 apparmor
drwxr-xr-x 7 root root 4096 Mar 20 04:47 apparmor.d
drwxr-xr-x 4 root root 4096 Feb 10 01:52 appport
-rw-r--r-- 1 root root 769 Jan 19 2020 appstream.conf
drwxr-xr-x 7 root root 4096 Mar 20 04:47 apt
drwxr-xr-x 3 root root 4096 Feb 10 01:51 avahi
-rw-r--r-- 1 root root 2319 Feb 25 2020 bash.bashrc
-rw-r--r-- 1 root root 45 Jan 26 2020 bash_completion
drwxr-xr-x 2 root root 4096 Feb 10 01:52 bash_completion.d
-rw-r--r-- 1 root root 367 Apr 15 2020 bindresvport.blacklist
drwxr-xr-x 2 root root 4096 Apr 22 2020 binfmt.d
drwxr-xr-x 2 root root 4096 Feb 10 01:51 bluetooth
-rw-r----- 1 root root 33 Feb 10 01:51 brlapi.key
drwxr-xr-x 7 root root 4096 Feb 10 01:50 brltty
-rw-r--r-- 1 root root 26916 Mar 4 2020 brltty.conf
drwxr-xr-x 3 root root 4096 Feb 10 01:47 ca-certificates
-rw-r--r-- 1 root root 6569 Feb 10 01:48 ca-certificates.conf
-rw-r--r-- 1 root root 5713 Feb 10 01:47 ca-certificates.conf.dpkg-old
drwxr-xr-x 2 root root 4096 Feb 10 01:51 calendar
drwxr-s--- 2 root dip 4096 Feb 10 01:51 chatscripts
drwxr-xr-x 2 root root 4096 Mar 20 04:45 console-setup
drwxr-xr-x 2 root root 4096 Feb 10 01:51 cracklib
drwxr-xr-x 2 root root 4096 Mar 20 04:47 cron.d
drwxr-xr-x 2 root root 4096 Feb 10 01:52 cron.daily
drwxr-xr-x 2 root root 4096 Feb 10 01:47 cron.hourly
drwxr-xr-x 2 root root 4096 Feb 10 01:51 cron.monthly
-rw-r--r-- 1 root root 1042 Feb 14 2020 crontab
drwxr-xr-x 2 root root 4096 Feb 10 01:52 cron.weekly
drwxr-xr-x 5 root lp 4096 Mar 27 04:53 cups
drwxr-xr-x 2 root root 4096 Feb 10 01:52 cupshelpers
drwxr-xr-x 4 root root 4096 Feb 10 01:47 dbus-1
drwxr-xr-x 4 root root 4096 Feb 10 01:49 dconf
-rw-r--r-- 1 root root 2969 Agu 3 2019 debconf.conf
-rw-r--r-- 1 root root 13 Des 5 2019 debian_version
drwxr-xr-x 3 root root 4096 Mar 20 04:47 default
-rw-r--r-- 1 root root 604 Sep 16 2018 deluser.conf
drwxr-xr-x 2 root root 4096 Feb 10 01:47 depmod.d
drwxr-xr-x 4 root root 4096 Feb 10 01:47 dhcp
drwxr-xr-x 2 root root 4096 Mar 20 04:47 dictionaries-common
```

Analisa :

Perintah `ls -l /etc` digunakan untuk menampilkan semua isi file dari sebuah direktori secara terperinci dari direktori `/etc`

9. Buatlah direktori prak1 pada direktori aktif, kemudia salin file /etc/group ke file tes1, tes2, tes3 pada direktori ini.
- ⇒ mkdir prak1
 - ⇒ cp /etc/group prak1/tes1
 - ⇒ cp /etc/group prak1/tes2
 - ⇒ cp /etc/group prak1/tes3

```
root@laurinmadelau-VirtualBox:/home/laurinmadelau# mkdir prak1
root@laurinmadelau-VirtualBox:/home/laurinmadelau# cp /etc/group prak1/tes1
root@laurinmadelau-VirtualBox:/home/laurinmadelau# cp /etc/group prak1/tes2
root@laurinmadelau-VirtualBox:/home/laurinmadelau# cp /etc/group prak1/tes3
root@laurinmadelau-VirtualBox:/home/laurinmadelau# ls prak1/
tes1 tes2 tes3
root@laurinmadelau-VirtualBox:/home/laurinmadelau#
```

Analisa :

Perintah mkdir digunakan untuk membuat direktori baru. Perintah cp digunakan untuk mengcopy/menyalin file atau direktori.

10. Tampilkan isi file tes1 per satu layar penuh
- ⇒ More prak1/tes1

```
root@laurinmadelau-VirtualBox:/home/laurinmadelau# more prak1/tes1
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,laurinmadelau
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:laurinmadelau
floppy:x:25:
tape:x:26:
sudo:x:27:laurinmadelau
audio:x:29:pulse
dip:x:30:laurinmadelau
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:
sas1:x:45:
plugdev:x:46:laurinmadelau
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
systemd-timesync:x:104:
crontab:x:105:
messagebus:x:106:
```

Analisa :

Perintah more digunakan untuk menampilkan file per satu layar penuh/keseluruhan.

11. Pindahkan file tes1 dan tes2 ke direktori home

⇒ Mv prak1/tes1 prak1/tes2 /home

```
kabayan.X:1001:
root@laurinmadelau-VirtualBox:/home/laurinmadelau# mv prak1/tes1 prak1/tes2 /home
root@laurinmadelau-VirtualBox:/home/laurinmadelau# ls
Desktop  Downloads  Pictures  Public    ticfolder
Documents Music      prak1    Templates Videos
root@laurinmadelau-VirtualBox:/home/laurinmadelau# ls /home
laurinmadelau tes1 tes2
root@laurinmadelau-VirtualBox:/home/laurinmadelau#
```

Analisa :

Untuk memindahkan file tes1 dan tes 2 digunakan perintah mv lalu tambahkan /home untuk memindahkan filenya tersebut ke direktori home. Ls /home untuk menampilkan filenya

12. Hapus file tes1 dan tes2

⇒ Rm tes1 tes 2

```
root@laurinmadelau-VirtualBox:/home# rm tes1 tes2
root@laurinmadelau-VirtualBox:/home# ls
laurinmadelau prak1
root@laurinmadelau-VirtualBox:/home#
```

Analisa :

Untuk menghapus file tes1 dan tes2 digunakan perintah rm tes1 tes2.