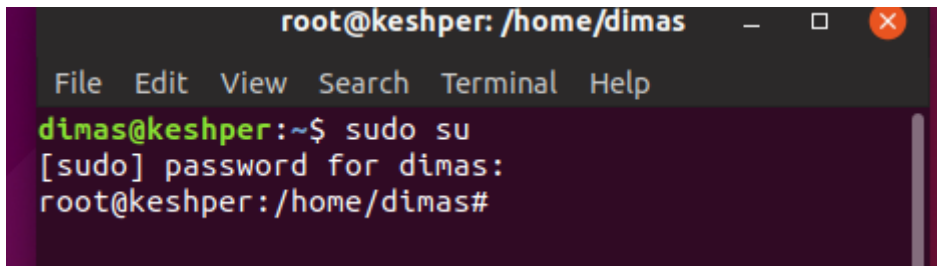


Nama : Dimas Bagus Setyawan
Kelas : TI 02
NIM : 0110218038

Challenge POSA

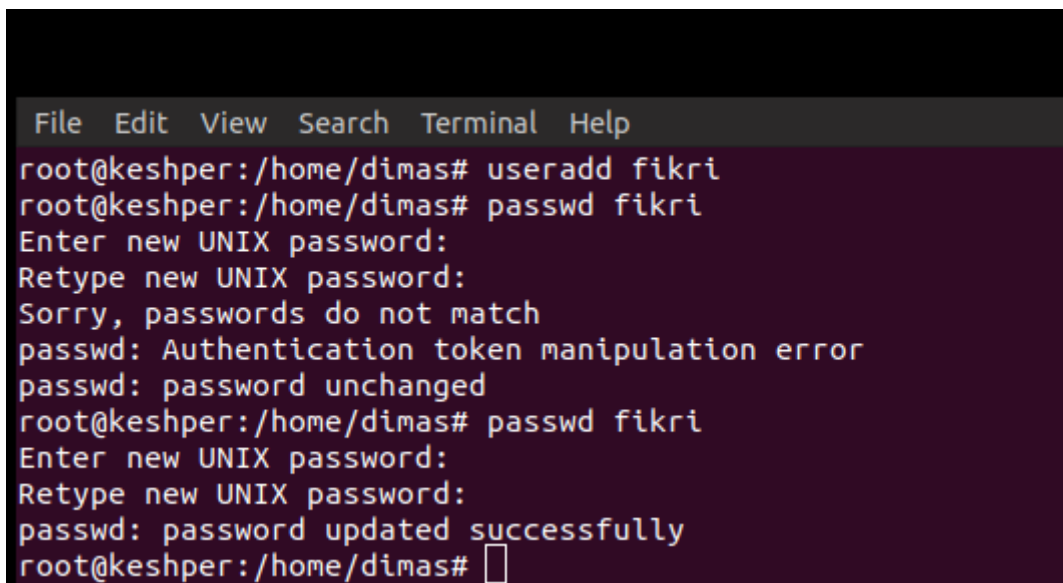
Modul 1

1. Perintah berubah dari user biasa menjadi user root : sudo su



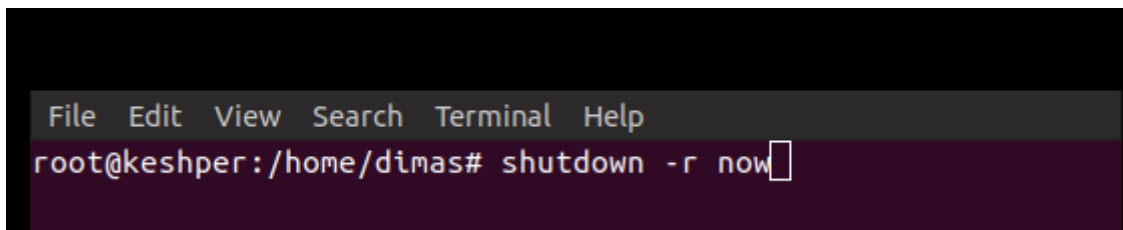
```
root@keshper: /home/dimas
File Edit View Search Terminal Help
dimas@keshper:~$ sudo su
[sudo] password for dimas:
root@keshper:/home/dimas#
```

2. Perintah mengubah password user fikri : sudo passwd fikri



```
File Edit View Search Terminal Help
root@keshper:/home/dimas# useradd fikri
root@keshper:/home/dimas# passwd fikri
Enter new UNIX password:
Retype new UNIX password:
Sorry, passwords do not match
passwd: Authentication token manipulation error
passwd: password unchanged
root@keshper:/home/dimas# passwd fikri
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
root@keshper:/home/dimas#
```

3. Perintah me-restart Linux : sudo shutdown -r now



```
File Edit View Search Terminal Help
root@keshper:/home/dimas# shutdown -r now
```

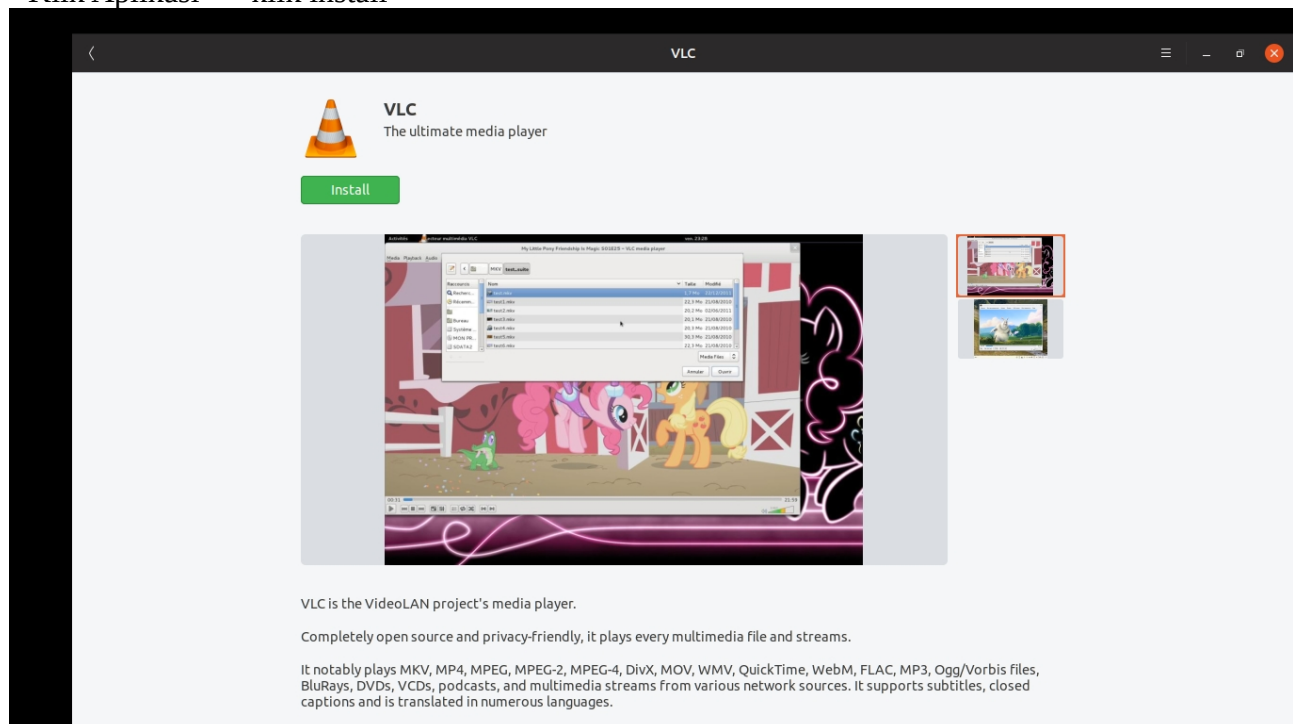
4. Perintah mematikan Linux (dalam user root) : reboot

```
File Edit View Search Terminal Help
root@keshper:/home/dimas# reboot
```

Modul 2

1. Tuliskan langkah-langkah menginstall VLC melalui Ubuntu Software Center :

- Buka aplikasi ubuntu software
- Cari Aplikasi VLC
- Klik Aplikasi => klik install

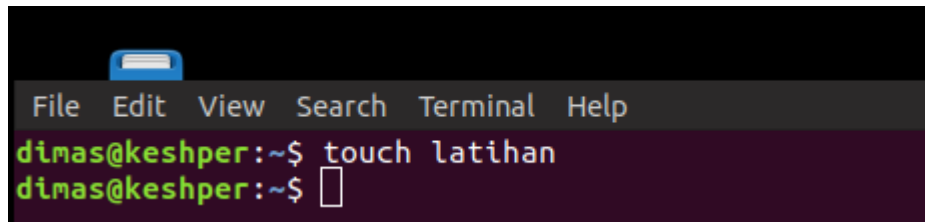


Modul 4

1. Perintah melihat isi direktori /etc : ls -l /etc

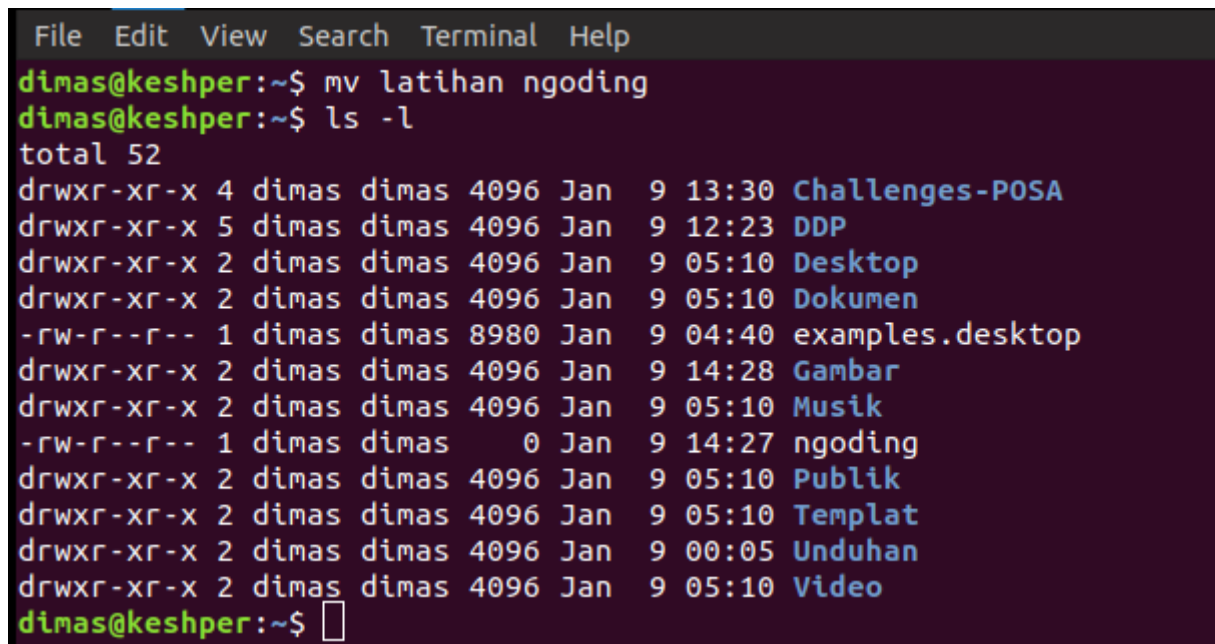
```
File Edit View Search Terminal Help
dimas@keshper:~$ ls -l /etc/
total 1108
drwxr-xr-x  3 root root    4096 Okt 18 05:28 acpi
-rw-r--r--  1 root root   3028 Okt 18 05:23 adduser.conf
drwxr-xr-x  2 root root    4096 Jan  9 00:38 alternatives
-rw-r--r--  1 root root    401 Mei 29 2017 anacrontab
-rw-r--r--  1 root root    433 Okt  2 2017 apg.conf
drwxr-xr-x  6 root root    4096 Okt 18 05:25 apm
drwxr-xr-x  3 root root    4096 Okt 18 05:28 apparmor
drwxr-xr-x  8 root root    4096 Okt 18 05:29 apparmor.d
drwxr-xr-x  4 root root    4096 Okt 18 05:29 appport
-rw-r--r--  1 root root    769 Agu  4 14:39 appstream.conf
drwxr-xr-x  6 root root    4096 Jan  8 22:37 apt
drwxr-xr-x  3 root root    4096 Okt 18 05:29 avahi
-rw-r--r--  1 root root   2319 Sep 12 21:22 bash.bashrc
-rw-r--r--  1 root root    45 Apr  2 2018 bash_completion
drwxr-xr-x  2 root root    4096 Jan  9 13:29 bash_completion.d
-rw-r--r--  1 root root    367 Jan 27 2016 bindresvport.blacklist
drwxr-xr-x  2 root root    4096 Okt  4 21:58 binfmt.d
drwxr-xr-x  2 root root    4096 Okt 18 05:28 bluetooth
-rw-r--r--  1 root root    33 Okt 18 05:29 brlapi.key
drwxr-xr-x  7 root root    4096 Okt 18 05:28 brltty
-rw-r--r--  1 root root   25458 Agu 29 14:46 brltty.conf
drwxr-xr-x  3 root root    4096 Okt 18 05:23 ca-certificates
-rw-r--r--  1 root root   5898 Okt 18 05:24 ca-certificates.conf
drwxr-xr-x  2 root root    4096 Okt 18 05:28 calendar
drwxr-xr-x  2 root dip     4096 Okt 18 05:28 chatscripts
drwxr-xr-x  2 root root    4096 Okt 18 05:24 console-setup
drwxr-xr-x  2 root root    4096 Okt 18 05:28 cracklib
drwxr-xr-x  2 root root    4096 Okt 18 05:28 cron.d
drwxr-xr-x  2 root root    4096 Okt 18 05:29 cron.daily
drwxr-xr-x  2 root root    4096 Okt 18 05:24 cron.hourly
drwxr-xr-x  2 root root    4096 Okt 18 05:28 cron.monthly
-rw-r--r--  1 root root    722 Nov 16 2017 crontab
drwxr-xr-x  2 root root    4096 Okt 18 05:29 cron.weekly
drwxr-xr-x  5 root lp      4096 Jan  9 14:23 cups
drwxr-xr-x  2 root root    4096 Okt 18 05:29 cupshelpers
drwxr-xr-x  4 root root    4096 Okt 18 05:23 dbus-1
```

2. Perintah membuat file bernama latihan : touch latihan



```
File Edit View Search Terminal Help
dimas@keshper:~$ touch latihan
dimas@keshper:~$
```

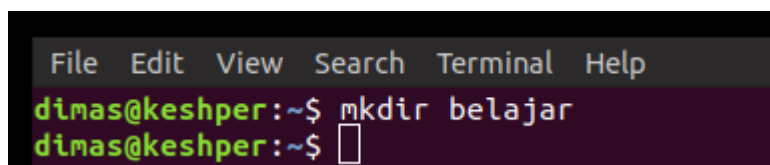
3. Perintah mengubah nama file latihan menjadi ngoding : mv latihan ngoding



```
File Edit View Search Terminal Help
dimas@keshper:~$ mv latihan ngoding
dimas@keshper:~$ ls -l
total 52
drwxr-xr-x 4 dimas dimas 4096 Jan  9 13:30 Challenges-POSA
drwxr-xr-x 5 dimas dimas 4096 Jan  9 12:23 DDP
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Desktop
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Dokumen
-rw-r--r-- 1 dimas dimas 8980 Jan  9 04:40 examples.desktop
drwxr-xr-x 2 dimas dimas 4096 Jan  9 14:28 Gambar
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Musik
-rw-r--r-- 1 dimas dimas  0 Jan  9 14:27 ngoding
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Publik
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Templat
drwxr-xr-x 2 dimas dimas 4096 Jan  9 00:05 Unduhan
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Video
dimas@keshper:~$
```

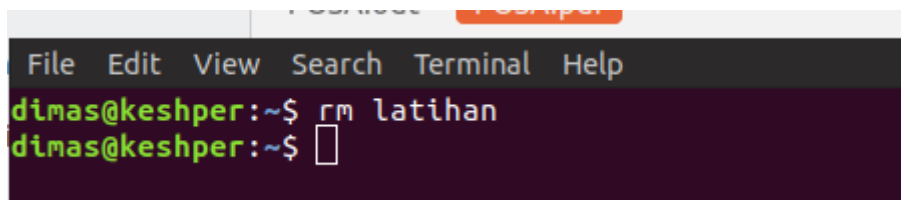
MODUL 5

1. Membuat direktori bernama belajar : mkdir belajar



```
File Edit View Search Terminal Help
dimas@keshper:~$ mkdir belajar
dimas@keshper:~$
```

2. Perintah menghapus file bernama latihan : rm latihan



```
File Edit View Search Terminal Help
dimas@keshper:~$ rm latihan
dimas@keshper:~$
```

3. Perintah pindah ke direktori /var/lib : `cd /var/lib`

```
File Edit View Search Terminal Help
dimas@keshper:~$ pwd
/home/dimas
dimas@keshper:~$ cd /var/lib/
dimas@keshper:/var/lib$ pwd
/var/lib
dimas@keshper:/var/lib$
```

4. Cek posisi direktori sekarang : `pwd`

```
File Edit View Search Terminal Help
dimas@keshper:~$ pwd
/home/dimas
dimas@keshper:~$ cd /var/lib/
dimas@keshper:/var/lib$ pwd
/var/lib
dimas@keshper:/var/lib$
```

MODUL 6

1. Mengubah izin akses file latihan menjadi `rw-r--r--` : `chmod 644 latihan`

```
File Edit View Search Terminal Help
dimas@keshper:~$ chmod 644 latihan
dimas@keshper:~$ ls -l
total 56
drwxr-xr-x 2 dimas dimas 4096 Jan  9 14:32 belajar
drwxr-xr-x 4 dimas dimas 4096 Jan  9 13:30 Challenges-POSA
drwxr-xr-x 5 dimas dimas 4096 Jan  9 12:23 DDP
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Desktop
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Dokumen
-rw-r--r-- 1 dimas dimas 8980 Jan  9 04:40 examples.desktop
drwxr-xr-x 2 dimas dimas 4096 Jan  9 14:37 Gambar
-rw-r--r-- 1 dimas dimas  0 Jan  9 18:06 latihan
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Musik
-rw-r--r-- 1 dimas dimas  0 Jan  9 14:27 ngoding
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Publik
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Templat
drwxr-xr-x 2 dimas dimas 4096 Jan  9 00:05 Unduhan
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Video
dimas@keshper:~$ ls -l latihan
-rw-r--r-- 1 dimas dimas 0 Jan  9 18:06 latihan
dimas@keshper:~$
```

2. Mengubah pemilik file latihan menjadi rifki : sudo chown rifki latihan

```
dimas@keshper:~$ ls -l
total 56
drwxr-xr-x 2 dimas dimas 4096 Jan  9 14:32 belajar
drwxr-xr-x 4 dimas dimas 4096 Jan  9 13:30 Challenges-POSA
drwxr-xr-x 5 dimas dimas 4096 Jan  9 12:23 DDP
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Desktop
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Dokumen
-rw-r--r-- 1 dimas dimas 8980 Jan  9 04:40 examples.desktop
drwxr-xr-x 2 dimas dimas 4096 Jan  9 18:37 Gambar
-rw-r--r-- 1 dimas dimas  0 Jan  9 18:06 latihan
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Musik
-rw-r--r-- 1 dimas dimas  0 Jan  9 14:27 ngoding
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Publik
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Templat
drwxr-xr-x 2 dimas dimas 4096 Jan  9 00:05 Unduhan
drwxr-xr-x 2 dimas dimas 4096 Jan  9 05:10 Video
dimas@keshper:~$ sudo chown rifki latihan
dimas@keshper:~$ ls -l latihan
-rw-r--r-- 1 rifki dimas 0 Jan  9 18:06 latihan
dimas@keshper:~$
```

Modul 7

1. Perintah mengarsip dan meng-kompresi seluruh file .conf di /etc/ dengan tar dan gzip secara bersamaan : tar -czvf config.tar.gz *.conf

```
dimas@keshper:/etc$ sudo su
root@keshper:/etc# tar -czvf config.tar.gz *.conf
adduser.conf
apg.conf
appstream.conf
brltty.conf
ca-certificates.conf
debconf.conf
deluser.conf
fprintd.conf
fuse.conf
gai.conf
hdparm.conf
host.conf
kernel-img.conf
kerneloops.conf
ld.so.conf
libao.conf
libaudit.conf
logrotate.conf
ltrace.conf
mke2fs.conf
mtools.conf
networkd.conf
```


2. Perintah mengarsip dan meng-kompresi seluruh file .conf di /etc dengan zip : `zip conf *.conf`

```
root@keshper:/etc# zip conf *.conf
  adding: adduser.conf (deflated 55%)
  adding: apg.conf (deflated 55%)
  adding: appstream.conf (deflated 47%)
  adding: brltty.conf (deflated 71%)
  adding: ca-certificates.conf (deflated 74%)
  adding: debconf.conf (deflated 56%)
  adding: deluser.conf (deflated 40%)
  adding: fprintd.conf (stored 0%)
  adding: fuse.conf (deflated 35%)
  adding: gai.conf (deflated 57%)
  adding: hdparm.conf (deflated 56%)
  adding: host.conf (deflated 13%)
  adding: kernel-img.conf (deflated 10%)
  adding: kerneloops.conf (deflated 51%)
  adding: ld.so.conf (deflated 6%)
  adding: libao.conf (stored 0%)
  adding: libaudit.conf (deflated 34%)
  adding: logrotate.conf (deflated 45%)
  adding: ltrace.conf (deflated 72%)
  adding: mke2fs.conf (deflated 58%)
  adding: mtools.conf (deflated 52%)
  adding: nsswitch.conf (deflated 47%)
  adding: pam.conf (deflated 62%)
  adding: pnm2ppa.conf (deflated 59%)
  adding: popularity-contest.conf (deflated 28%)
  adding: resolv.conf (deflated 47%)
  adding: rsyslog.conf (deflated 52%)
  adding: sensors3.conf (deflated 82%)
  adding: sysctl.conf (deflated 59%)
  adding: ucf.conf (deflated 61%)
  adding: updatedb.conf (deflated 37%)
  adding: usb_modeswitch.conf (deflated 46%)
root@keshper:/etc#
```

3. Perintah mengekstrak file zip yang sudah dikompresi di atas: `unzip conf.zip`

```
root@keshper:/etc# unzip conf.zip
Archive:  conf.zip
```

Modul 8

1. Menampilkan bagian akhir file /etc/passwd: `tail -n5 /etc/passwd`

```
dimas@keshper:/$ tail /etc/passwd
nm-openvpn:x:118:125:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot
:/usr/sbin/nologin
avahi:x:119:126:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/n
ologin
colord:x:120:127:colord colour management daemon,,,:/var/lib/colord:/u
sr/sbin/nologin
hplip:x:121:7:HPLIP system user,,,:/var/run/hplip:/bin/false
gnome-initial-setup:x:122:65534:/:/run/gnome-initial-setup:/bin/false
gdm:x:123:128:Gnome Display Manager:/var/lib/gdm3:/bin/false
dimas:x:1000:1000:dimas,,,:/home/dimas:/bin/bash
systemd-coredump:x:998:998:systemd Core Dumper:/:/sbin/nologin
fikri:x:1001:1001:/:/home/fikri:/bin/sh
rifki:x:1002:1002:/:/home/rifki:/bin/sh
dimas@keshper:/$
```

2. Perintah menghitung kata file /etc/passwd: `wc /etc/passwd`

```
dimas@keshper:~$ wc -w /etc/passwd
79 /etc/passwd
dimas@keshper:~$
```

3. Perintah mencari kata root di file /etc/passwd : `grep root /etc/passwd`

```
dimas@keshper:~$ grep root /etc/passwd
root:x:0:0:root:/root:/bin/bash
nm-openvpn:x:118:125:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot
:/usr/sbin/nologin
dimas@keshper:~$
```


Modul 9

1. Tampilkan halaman manual dari perintah cp : man cp

```
dimas@keshper:~$ cp --help
Usage: cp [OPTION]... [-T] SOURCE DEST
  or: cp [OPTION]... SOURCE... DIRECTORY
  or: cp [OPTION]... -t DIRECTORY SOURCE...
Copy SOURCE to DEST, or multiple SOURCE(s) to DIRECTORY.

Mandatory arguments to long options are mandatory for short options too.
-a, --archive                same as -dR --preserve=all
  --attributes-only          don't copy the file data, just the attributes
  --backup[=CONTROL]        make a backup of each existing destination file
-b                           like --backup but does not accept an argument
  --copy-contents            copy contents of special files when recursive
-d                           same as --no-dereference --preserve=links
-f, --force                  if an existing destination file cannot be
                             opened, remove it and try again (this option
                             is ignored when the -n option is also used)
-i, --interactive            prompt before overwrite (overrides a previous -n
                             option)
-H                           follow command-line symbolic links in SOURCE
-l, --link                   hard link files instead of copying
-L, --dereference            always follow symbolic links in SOURCE
-n, --no-clobber             do not overwrite an existing file (overrides
                             a previous -i option)
-P, --no-dereference        never follow symbolic links in SOURCE
```

2. Tampilkan halaman info dari perintah date : info date

```
dimas@keshper:~$ date --help
Usage: date [OPTION]... [+FORMAT]
  or: date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]
Display the current time in the given FORMAT, or set the system date.

Mandatory arguments to long options are mandatory for short options too.
-d, --date=STRING            display time described by STRING, not 'now'
  --debug                    annotate the parsed date,
                             and warn about questionable usage to stderr
-f, --file=DATEFILE          like --date; once for each line of DATEFILE
-I[FMT], --iso-8601[=FMT]   output date/time in ISO 8601 format.
                             FMT='date' for date only (the default),
                             'hours', 'minutes', 'seconds', or 'ns'
                             for date and time to the indicated precision.
                             Example: 2006-08-14T02:34:56-06:00
-R, --rfc-email              output date and time in RFC 5322 format.
                             Example: Mon, 14 Aug 2006 02:34:56 -0600
  --rfc-3339=FMT             output date/time in RFC 3339 format.
                             FMT='date', 'seconds', or 'ns'
                             for date and time to the indicated precision.
                             Example: 2006-08-14 02:34:56-06:00
-r, --reference=FILE         display the last modification time of FILE
-s, --set=STRING             set time described by STRING
-u, --utc, --universal       print or set Coordinated Universal Time (UTC)
```

Modul 10

Terdapat sebuah sistem Linux dengan ip dan username sebagai berikut:

- IP: 192.168.1.18
- username: aufa18

1. Jalankan Perintah meremote komputer aufa : ssh aufa18@192.168.1.18

```
dimas@keshper:~$ ssh aufa18@192.168.1.18
```

2. Jalankan Perintah mengcopy file latihan ke komputer aufa : scp latihan aufa18@192.168.1.18

```
root@keshper:/home/dimas# scp latihan aufa18@192.168.1.18
```