

## Challenge POSA TI-2



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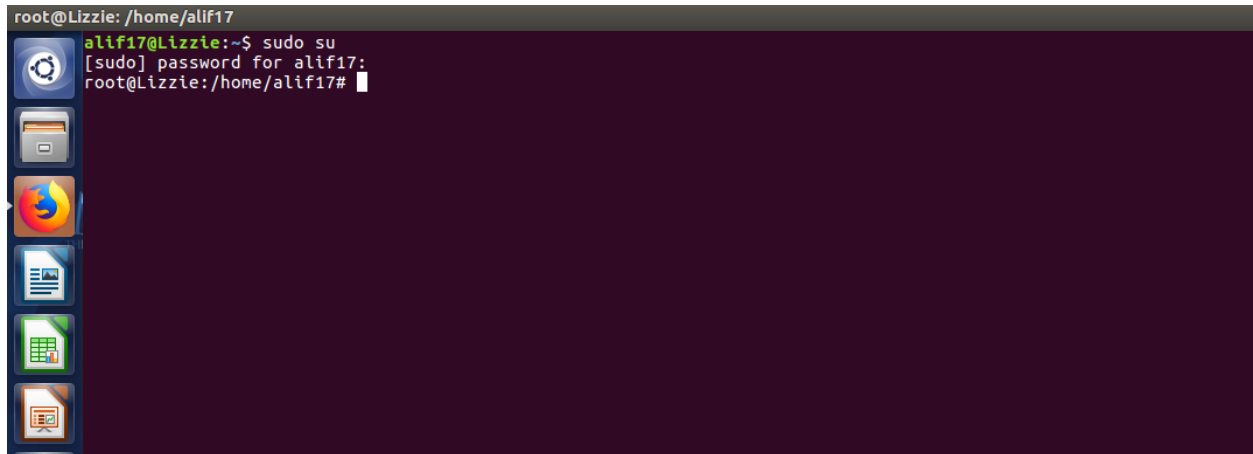
**Prodi : TI02**

**NIM : 0110218019**

## Modul 1

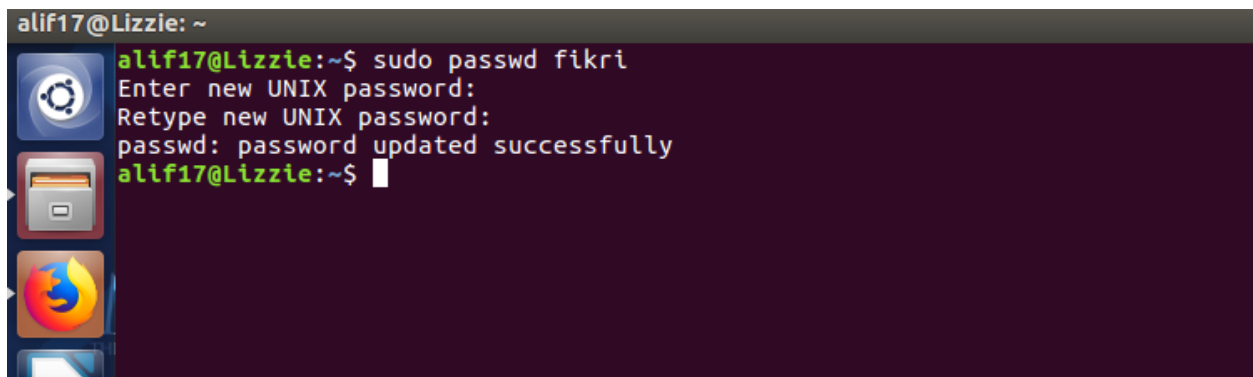
### 1. Perintah berubah dari user biasa menjadi user root:

```
root@Lizzie: /home/alif17
alif17@Lizzie:~$ sudo su
[sudo] password for alif17:
root@Lizzie: /home/alif17#
```

A terminal window with a dark purple background. The prompt is 'root@Lizzie: /home/alif17'. The user 'alif17' enters the command 'sudo su'. The system prompts for the password for 'alif17', which is entered. The prompt then changes to 'root@Lizzie: /home/alif17#'. On the left side of the terminal, there is a vertical dock with icons for a system menu, file manager, Firefox, LibreOffice Writer, LibreOffice Calc, and LibreOffice Impress.

### 2. Perintah mengubah password user fikri:

```
alif17@Lizzie: ~
alif17@Lizzie:~$ sudo passwd fikri
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
alif17@Lizzie:~$
```

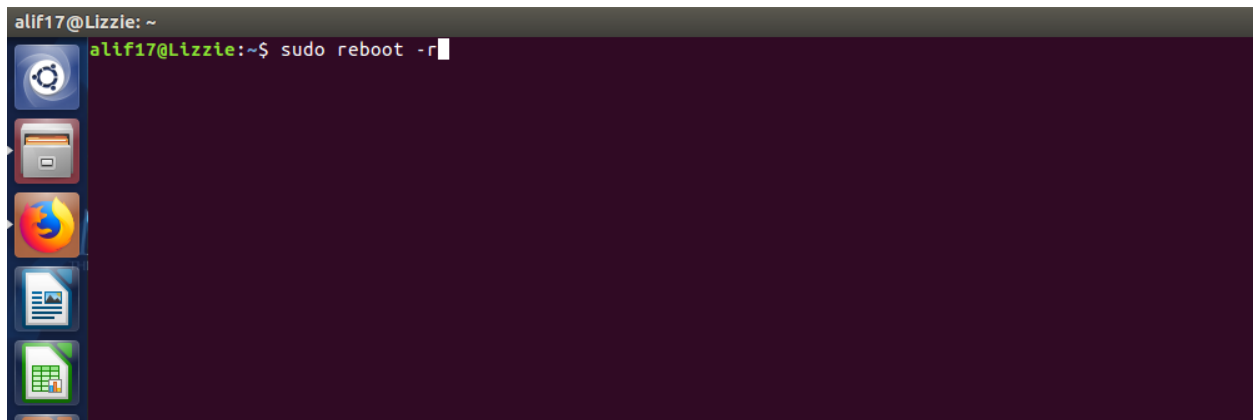
A terminal window with a dark purple background. The prompt is 'alif17@Lizzie: ~'. The user 'alif17' enters the command 'sudo passwd fikri'. The system prompts for the new UNIX password, which is entered. It then prompts to retype the new UNIX password, which is also entered. The system confirms 'passwd: password updated successfully'. The prompt returns to 'alif17@Lizzie:~\$'. On the left side of the terminal, there is a vertical dock with icons for a system menu, file manager, Firefox, and LibreOffice Writer.

### 3. Perintah me-restart Linux:

```
alif17@Lizzie: ~
alif17@Lizzie:~$ sudo reboot
```

A terminal window with a dark purple background. The prompt is 'alif17@Lizzie: ~'. The user 'alif17' enters the command 'sudo reboot'. The prompt is now 'alif17@Lizzie:~\$' followed by the command. On the left side of the terminal, there is a vertical dock with icons for a system menu, file manager, Firefox, and LibreOffice Writer.

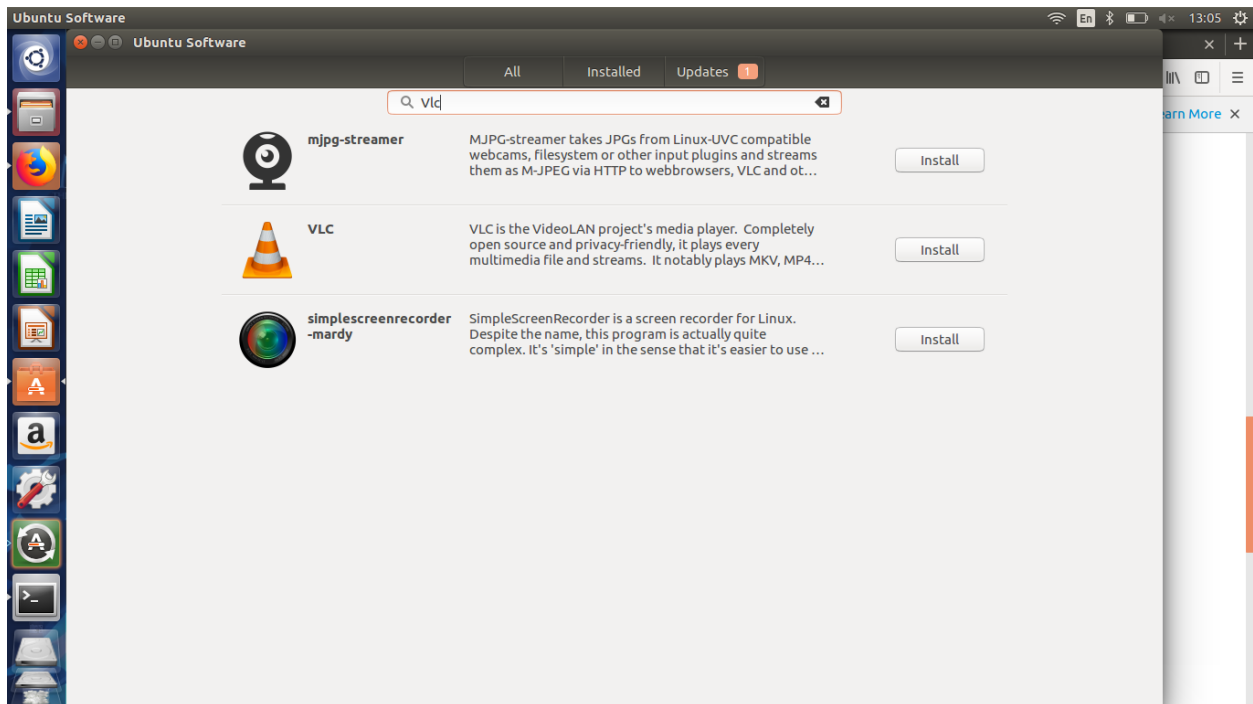
#### 4. Perintah mematikan Linux:



#### Modul 2

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

- Buka Ubuntu Software Center
- Ketik di Pencarian
- Dan Klik Install



## Modul 4

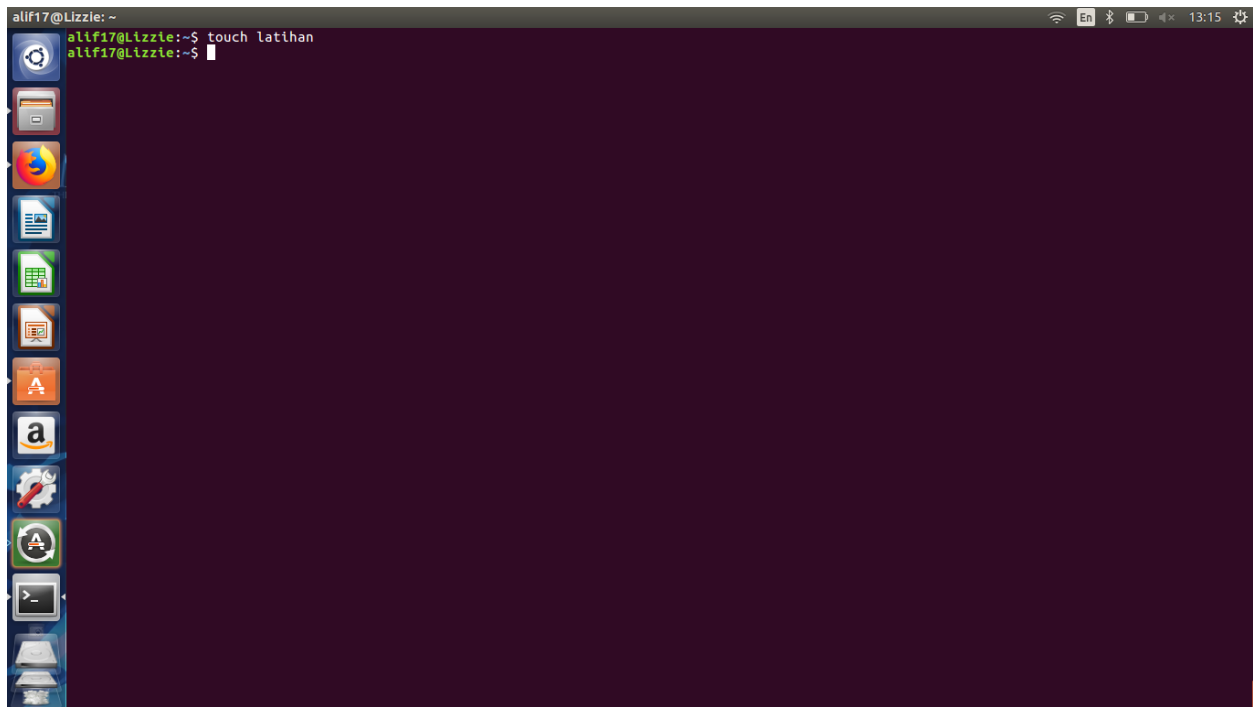
### 1. Perintah melihat isi direktori /etc:

### 2. Perintah membuat file bernama latihan:

### 1. Perintah melihat isi direktori /etc:

```
root@Lizzie: /etc
root@Lizzie:/etc#
root@Lizzie:/etc# ls -l
total 1316
drwxr-xr-x 3 root root 4096 Jul 31 07:40 acpi
-rw-r--r-- 1 root root 3028 Jul 31 07:31 adduser.conf
drwxr-xr-x 2 root root 4096 Okt 2 10:23 alternatives
-rw-r--r-- 1 root root 401 Des 29 2014 anacrontab
drwxr-xr-x 3 root root 4096 Okt 2 10:13 apache2
-rw-r--r-- 1 root root 112 Jan 10 2014 apg.conf
drwxr-xr-x 6 root root 4096 Jul 31 07:35 apm
drwxr-xr-x 3 root root 4096 Jul 31 07:40 apparmor
drwxr-xr-x 8 root root 4096 Jul 31 07:42 apparmor.d
drwxr-xr-x 5 root root 4096 Jul 31 07:40 appport
-rw-r--r-- 1 root root 389 Apr 18 2016 appstream.conf
drwxr-xr-x 6 root root 4096 Sep 28 16:50 apt
drwxr-xr-x 3 root root 4096 Jul 31 07:38 aptdaemon
drwxr-xr-x 2 root root 4096 Jul 31 07:41 at-spi2
drwxr-xr-x 3 root root 4096 Jul 31 07:41 avahi
-rw-r--r-- 1 root root 2188 Sep 1 2015 bash.bashrc
-rw-r--r-- 1 root root 45 Agu 13 2015 bash_completion
drwxr-xr-x 2 root root 4096 Okt 22 16:38 bash_completion.d
-rw-r--r-- 1 root root 367 Jan 27 2016 bindresvport.blacklist
drwxr-xr-x 2 root root 4096 Apr 12 2016 binfmt.d
drwxr-xr-x 2 root root 4096 Jul 31 07:41 bluetooth
-rw-r--r-- 1 root root 33 Jul 31 07:41 brlapi.key
drwxr-xr-x 7 root root 4096 Jul 31 07:38 brltty
-rw-r--r-- 1 root root 23444 Apr 28 2016 brltty.conf
drwxr-xr-x 3 root root 4096 Jul 31 07:34 ca-certificates
-rw-r--r-- 1 root root 6488 Jul 31 07:40 ca-certificates.conf
drwxr-xr-x 2 root root 4096 Jul 31 07:38 calendar
drwxr-xr-x 2 root dip 4096 Jul 31 07:41 chatscripts
drwxr-xr-x 4 root root 4096 Okt 9 16:53 chromium-browser
drwxr-xr-x 2 root root 4096 Jul 31 07:42 compizconfig
-rw-r--r-- 1 root root 33436 Jan 8 17:05 config.tar.giz
-rw-r--r-- 1 root root 40202 Jan 8 17:05 conf.zip
drwxr-xr-x 2 root root 4096 Jul 31 07:33 console-setup
drwxr-xr-x 2 root root 4096 Jul 31 07:41 cracklib
drwxr-xr-x 2 root root 4096 Jul 31 07:40 cron.d
drwxr-xr-x 2 root root 4096 Jul 31 07:42 cron.daily
drwxr-xr-x 2 root root 4096 Jul 31 07:31 cron.hourly
drwxr-xr-x 2 root root 4096 Jul 31 07:40 cron.monthly
-rw-r--r-- 1 root root 722 Apr 6 2016 crontab
drwxr-xr-x 2 root root 4096 Jul 31 07:42 cron.weekly
```

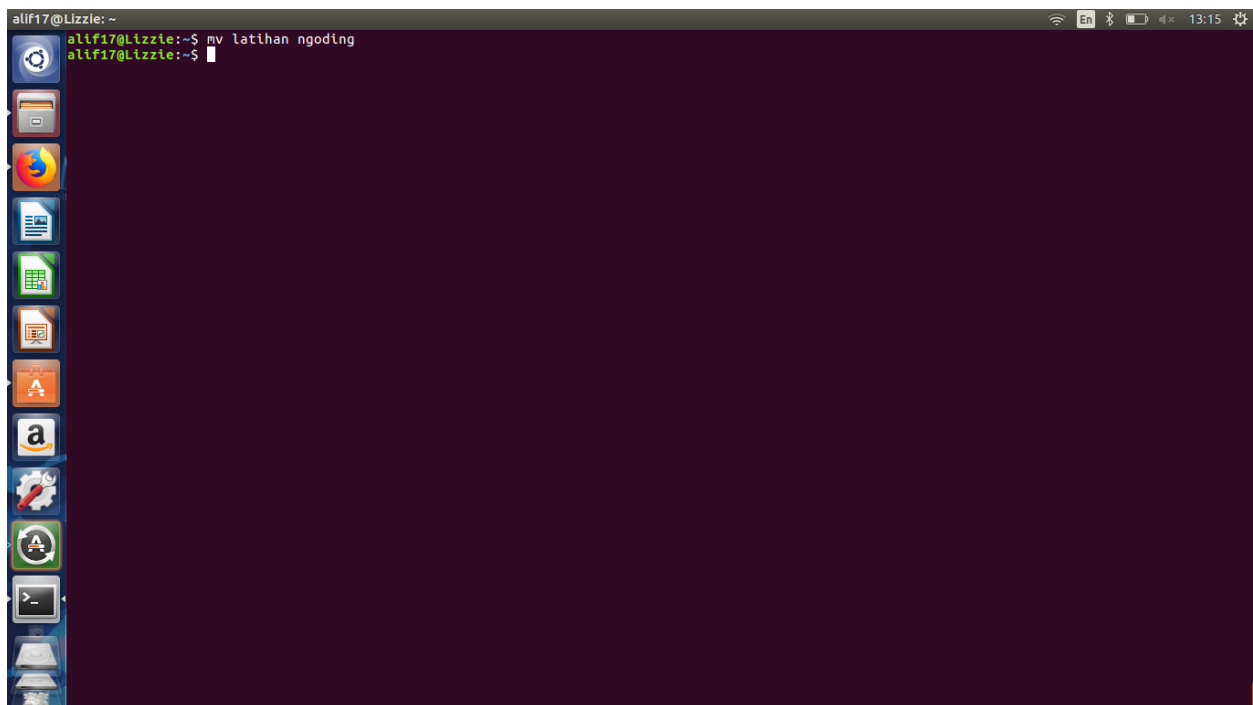
### 2. Perintah membuat file bernama latihan:



A terminal window titled 'alif17@Lizzie: ~' with a dark purple background. The window shows the command 'touch latihan' being entered and executed. The prompt 'alif17@Lizzie:~\$' is visible before and after the command. On the left side of the terminal, there is a vertical dock containing various application icons: a gear, a folder, a web browser, a document, a spreadsheet, a presentation, a terminal, a file manager, a settings icon, a terminal icon, and a printer. The top right corner of the window displays system status icons for Wi-Fi, battery, and the time '13:15'.

```
alif17@Lizzie: ~  
alif17@Lizzie:~$ touch latihan  
alif17@Lizzie:~$
```

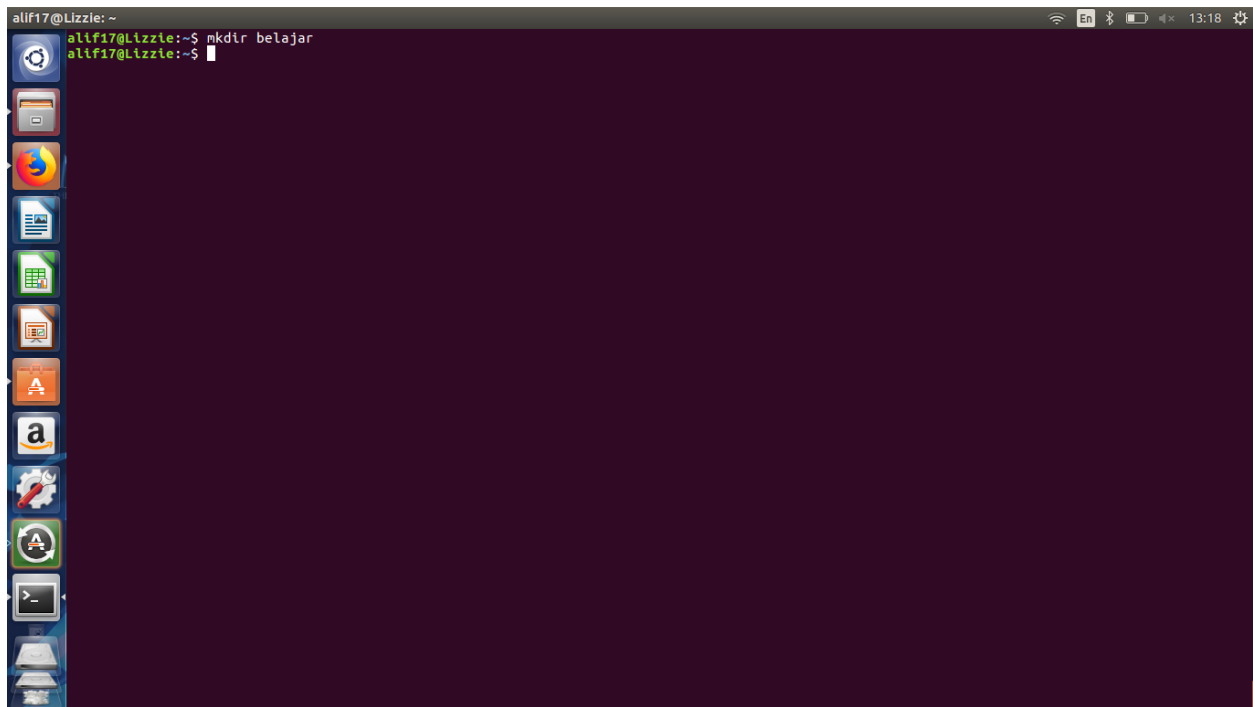
### 3. Perintah mengubah nama file latihan menjadi ngoding:



A terminal window titled 'alif17@Lizzie: ~' with a dark purple background. The window shows the command 'mv latihan ngoding' being entered and executed. The prompt 'alif17@Lizzie:~\$' is visible before and after the command. On the left side of the terminal, there is a vertical dock containing various application icons: a gear, a folder, a web browser, a document, a spreadsheet, a presentation, a terminal, a file manager, a settings icon, a terminal icon, and a printer. The top right corner of the window displays system status icons for Wi-Fi, battery, and the time '13:15'.

```
alif17@Lizzie: ~  
alif17@Lizzie:~$ mv latihan ngoding  
alif17@Lizzie:~$
```

## 1. Membuat direktori bernama belajar:

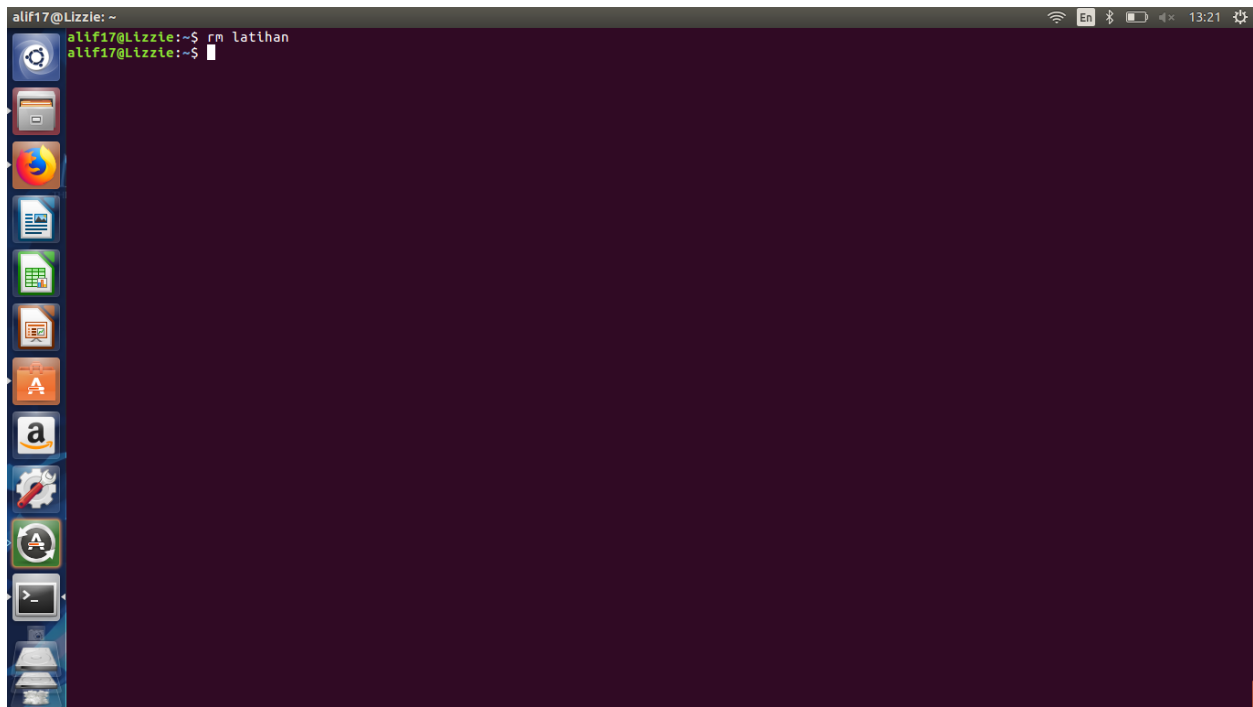


A terminal window titled 'alif17@Lizzie: ~' with a dark purple background. The window shows the command 'mkdir belajar' being entered and executed. The prompt 'alif17@Lizzie:~\$' is visible at the top left of the terminal area. On the left side of the terminal window, there is a vertical dock containing several application icons: a gear, a folder, a web browser, a document, a spreadsheet, a presentation, a terminal, a file manager, a settings icon, a terminal icon, and a printer. The top right corner of the window shows system status icons for Wi-Fi, battery, and the time '13:18'.

```
alif17@Lizzie: ~  
alif17@Lizzie:~$ mkdir belajar  
alif17@Lizzie:~$
```

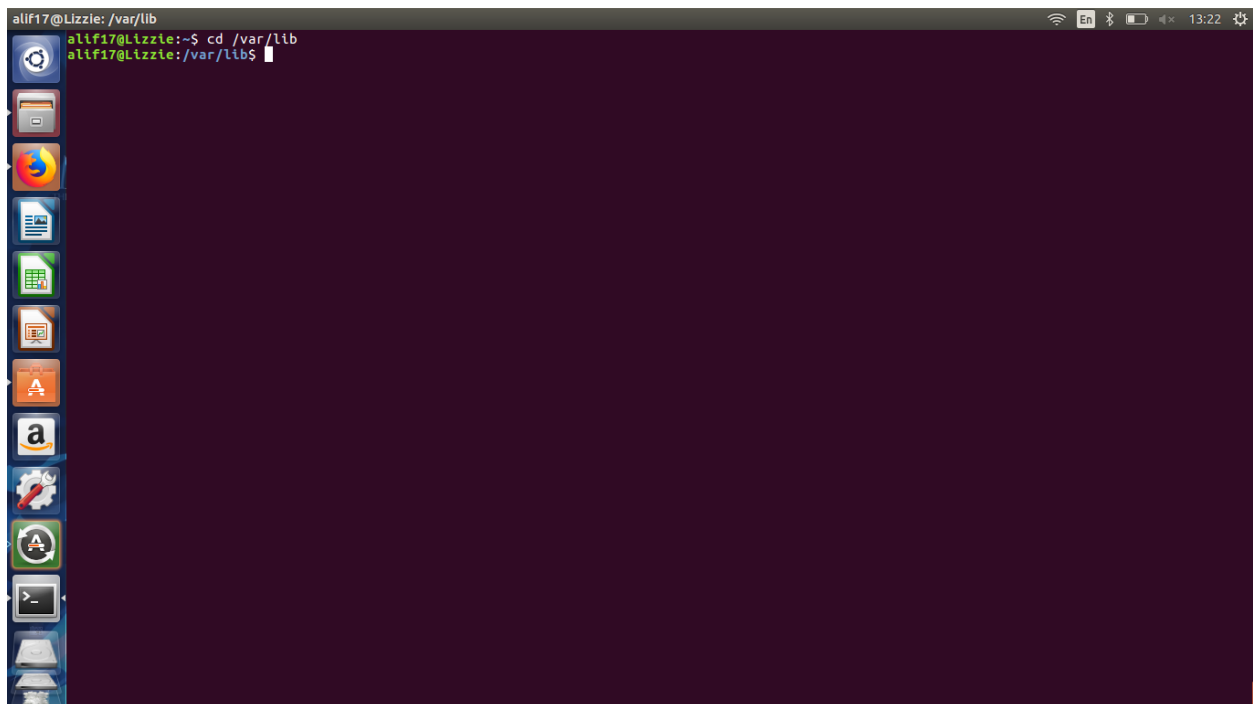
## 2. Perintah menghapus file bernama latihan:

```
alif17@Lizzie: ~  
alif17@Lizzie:~$ rm latihan  
alif17@Lizzie:~$
```

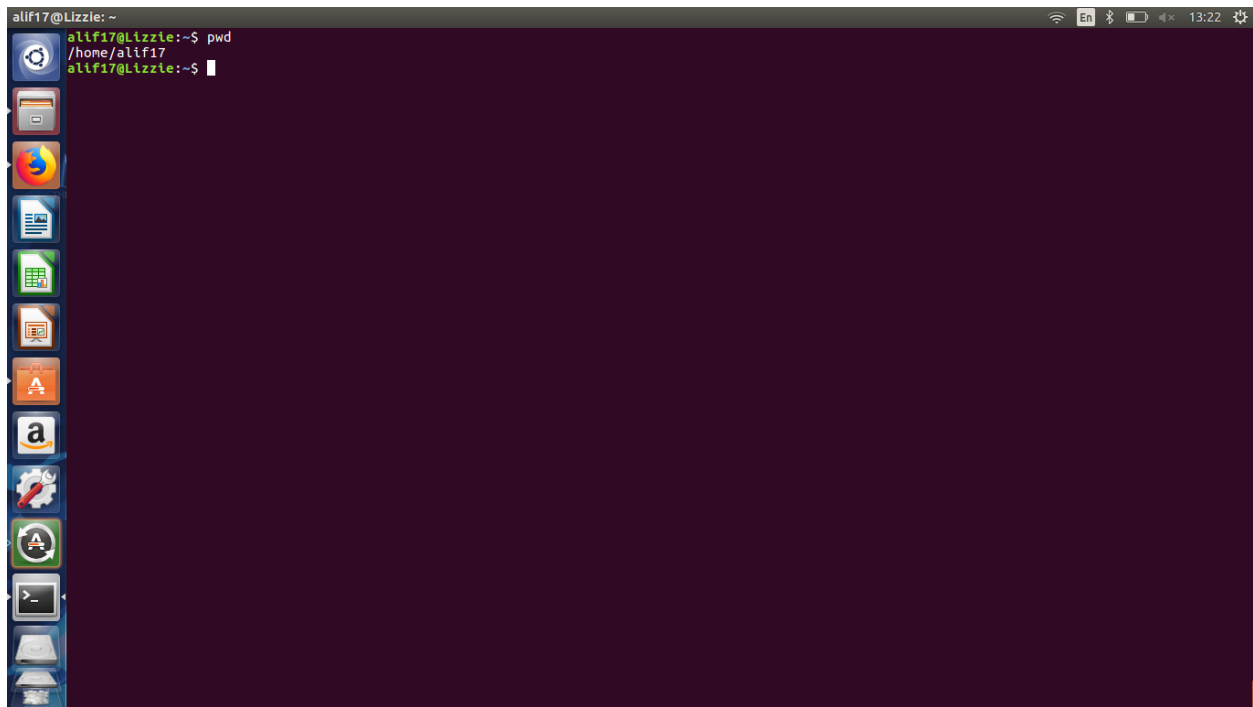
A terminal window with a dark purple background. The title bar shows 'alif17@Lizzie: ~'. The command prompt is 'alif17@Lizzie:~\$'. The command 'rm latihan' has been entered and executed. The prompt is now 'alif17@Lizzie:~\$'. On the left side of the terminal, there is a vertical dock with various application icons: a gear, a folder, a web browser, a document, a spreadsheet, a presentation, a terminal, a file manager, a settings icon, a network icon, a power icon, and a laptop icon.

3. Perintah pindah ke direktori /var/lib:

```
alif17@Lizzie: /var/lib  
alif17@Lizzie:~$ cd /var/lib  
alif17@Lizzie:/var/lib$
```

A terminal window with a dark purple background. The title bar shows 'alif17@Lizzie: /var/lib'. The command prompt is 'alif17@Lizzie:~\$'. The command 'cd /var/lib' has been entered and executed. The prompt is now 'alif17@Lizzie:/var/lib\$'. On the left side of the terminal, there is a vertical dock with various application icons: a gear, a folder, a web browser, a document, a spreadsheet, a presentation, a terminal, a file manager, a settings icon, a network icon, a power icon, and a laptop icon.

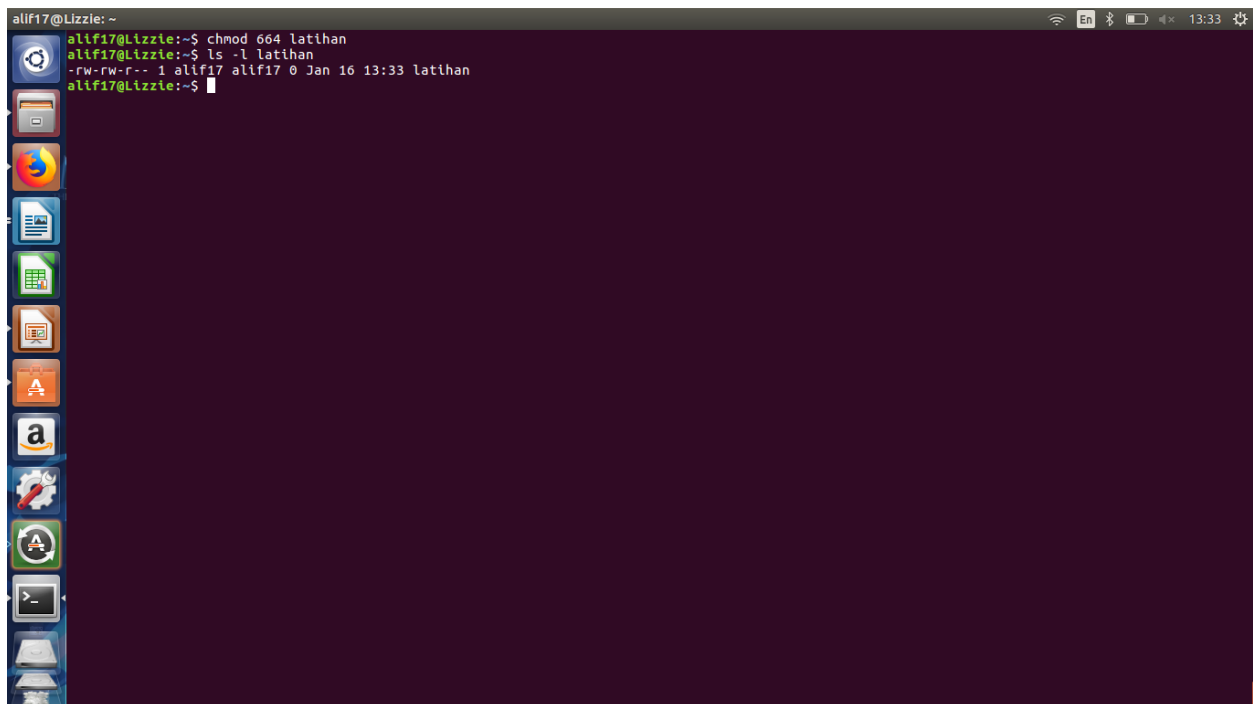
4. Cek posisi direktori sekarang:

A terminal window titled 'alif17@Lizzie: ~' with a dark purple background. The left sidebar contains icons for various applications. The terminal shows the user 'alif17@Lizzie' at the prompt '~\$' typing 'pwd'. The output is '/home/alif17'. The prompt changes to 'alif17@Lizzie:~\$' after the command is executed.

```
alif17@Lizzie: ~  
alif17@Lizzie:~$ pwd  
/home/alif17  
alif17@Lizzie:~$
```

## Modul 6

### 1. Mengubah izin akses file latihan menjadi rw-r-r--:

A terminal window titled 'alif17@Lizzie: ~' with a dark purple background. The left sidebar contains icons for various applications. The terminal shows the user 'alif17@Lizzie' at the prompt '~\$' typing 'chmod 664 latihan'. The prompt changes to 'alif17@Lizzie:~\$'. Then, the user types 'ls -l latihan' and the output is '-rw-rw-r-- 1 alif17 alif17 0 Jan 16 13:33 latihan'. The prompt changes to 'alif17@Lizzie:~\$' after the command is executed.

```
alif17@Lizzie: ~  
alif17@Lizzie:~$ chmod 664 latihan  
alif17@Lizzie:~$ ls -l latihan  
-rw-rw-r-- 1 alif17 alif17 0 Jan 16 13:33 latihan  
alif17@Lizzie:~$
```



## 2. Mengubah pemilik file latihan menjadi rifki.

```
alif17@Lizzie: ~  
alif17@Lizzie:~$ sudo chown fikri latihan  
alif17@Lizzie:~$ ls -l latihan  
-rw-rw-r-- 1 fikri alif17 0 Jan 16 13:33 latihan  
alif17@Lizzie:~$
```

## Modul 7

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

```
root@Lizzie: /etc  
alif17@Lizzie:~$ sudo su  
root@Lizzie:/home/alif17# cd /etc  
root@Lizzie:/etc# tar -czvf.tar.gz *.conf  
adduser.conf  
apg.conf  
appstream.conf  
brltty.conf  
ca-certificates.conf  
dconf/  
dconf/db/  
dconf/db/ibus.d/  
dconf/db/ibus.d/00-upstream-settings  
dconf/db/ibus  
dconf/profile/  
dconf/profile/ibus  
debconf.conf  
deluser.conf  
ffserver.conf  
fuse.conf  
fwupd.conf  
gal.conf  
gconf/  
gconf/gconf.xml.defaults/  
gconf/gconf.xml.defaults/%gconf-tree.xml  
gconf/gconf.xml.mandatory/  
gconf/gconf.xml.mandatory/%gconf-tree.xml  
gconf/2/  
gconf/2/evoldap.conf  
gconf/2/path  
hdparm.conf  
host.conf  
insserv.conf  
kernel.img.conf  
kerneloops.conf  
ld.so.conf  
libao.conf  
libaudit.conf  
logrotate.conf  
ltrace.conf  
mke2fs.conf  
mtools.conf  
nsswitch.conf
```

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

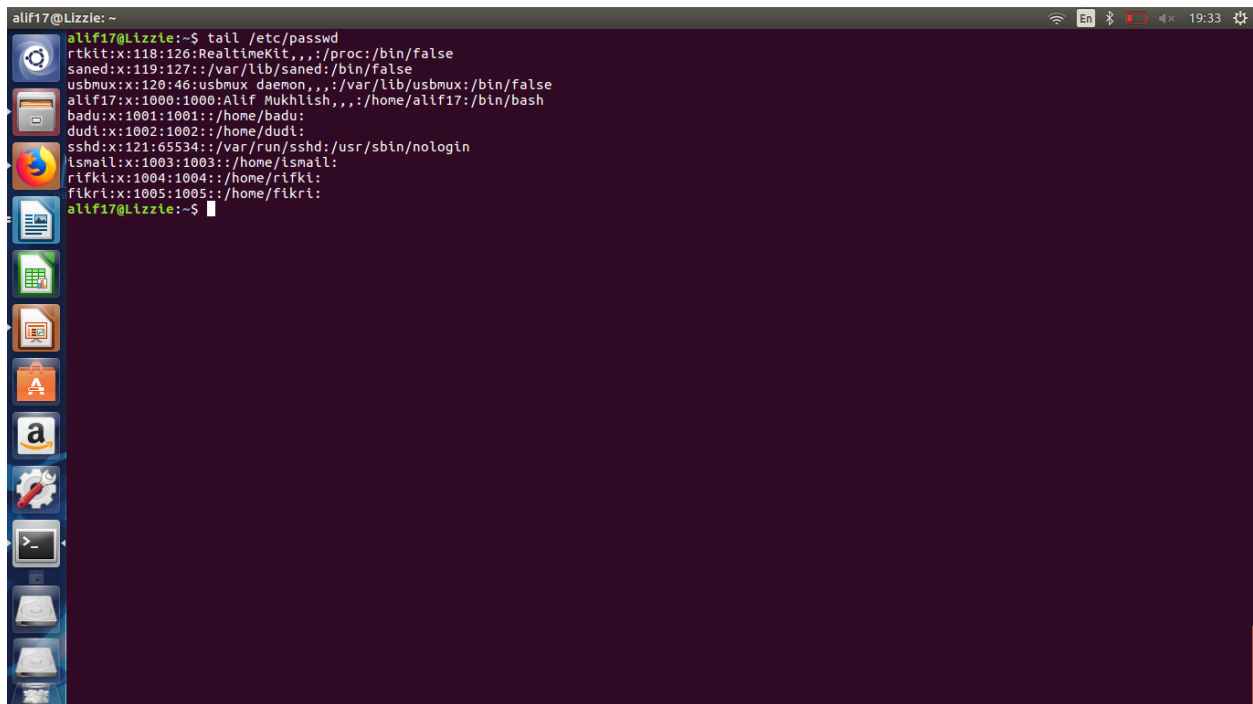
```
root@Lizzie: /etc
alif17@Lizzie:~$ sudo su
root@Lizzie:/home/alif17# cd /etc
root@Lizzie:/etc# zip conf *.conf
updating: adduser.conf (deflated 55%)
updating: apg.conf (deflated 9%)
updating: appstream.conf (deflated 43%)
updating: brltty.conf (deflated 71%)
updating: ca-certificates.conf (deflated 74%)
updating: debconf.conf (deflated 56%)
updating: deluser.conf (deflated 40%)
updating: ffserver.conf (deflated 62%)
updating: fuse.conf (deflated 35%)
updating: fwupd.conf (deflated 43%)
updating: gal.conf (deflated 57%)
updating: hdparm.conf (deflated 57%)
updating: host.conf (deflated 13%)
updating: insserv.conf (deflated 46%)
updating: kernel-img.conf (deflated 10%)
updating: kerneloops.conf (deflated 51%)
updating: ld.so.conf (deflated 6%)
updating: libao.conf (stored 0%)
updating: libaudit.conf (deflated 34%)
updating: logrotate.conf (deflated 50%)
updating: ltrace.conf (deflated 72%)
updating: mke2fs.conf (deflated 62%)
updating: mtools.conf (deflated 52%)
updating: nsswitch.conf (deflated 46%)
updating: pam.conf (deflated 62%)
updating: pnm2ppa.conf (deflated 59%)
updating: popularity-contest.conf (deflated 28%)
updating: resolv.conf (deflated 15%)
updating: rsyslog.conf (deflated 52%)
updating: sensors3.conf (deflated 82%)
updating: signond.conf (deflated 60%)
updating: sysctl.conf (deflated 60%)
updating: ucf.conf (deflated 61%)
updating: updatedb.conf (deflated 31%)
updating: usb_modeswitch.conf (deflated 43%)
root@Lizzie:/etc#
```

## 3. Perintah mengekstrak file zip yang sudah dikompresi di atas:

```
root@Lizzie: /home/alif17
alif17@Lizzie:~$ sudo su
root@Lizzie:/home/alif17# unzip /etc/conf.zip
Archive: /etc/conf.zip
  inflating: adduser.conf
  inflating: apg.conf
  inflating: appstream.conf
  inflating: brltty.conf
  inflating: ca-certificates.conf
  inflating: debconf.conf
  inflating: deluser.conf
  inflating: ffserver.conf
  inflating: fuse.conf
  inflating: fwupd.conf
  inflating: gal.conf
  inflating: hdparm.conf
  inflating: host.conf
  inflating: insserv.conf
  inflating: kernel-img.conf
  inflating: kerneloops.conf
  inflating: ld.so.conf
  extracting: libao.conf
  inflating: libaudit.conf
  inflating: logrotate.conf
  inflating: ltrace.conf
  inflating: mke2fs.conf
  inflating: mtools.conf
  inflating: nsswitch.conf
  inflating: pam.conf
  inflating: pnm2ppa.conf
  inflating: popularity-contest.conf
  inflating: resolv.conf
  inflating: rsyslog.conf
  inflating: sensors3.conf
  inflating: signond.conf
  inflating: sysctl.conf
  inflating: ucf.conf
  inflating: updatedb.conf
  inflating: usb_modeswitch.conf
root@Lizzie:/home/alif17#
```

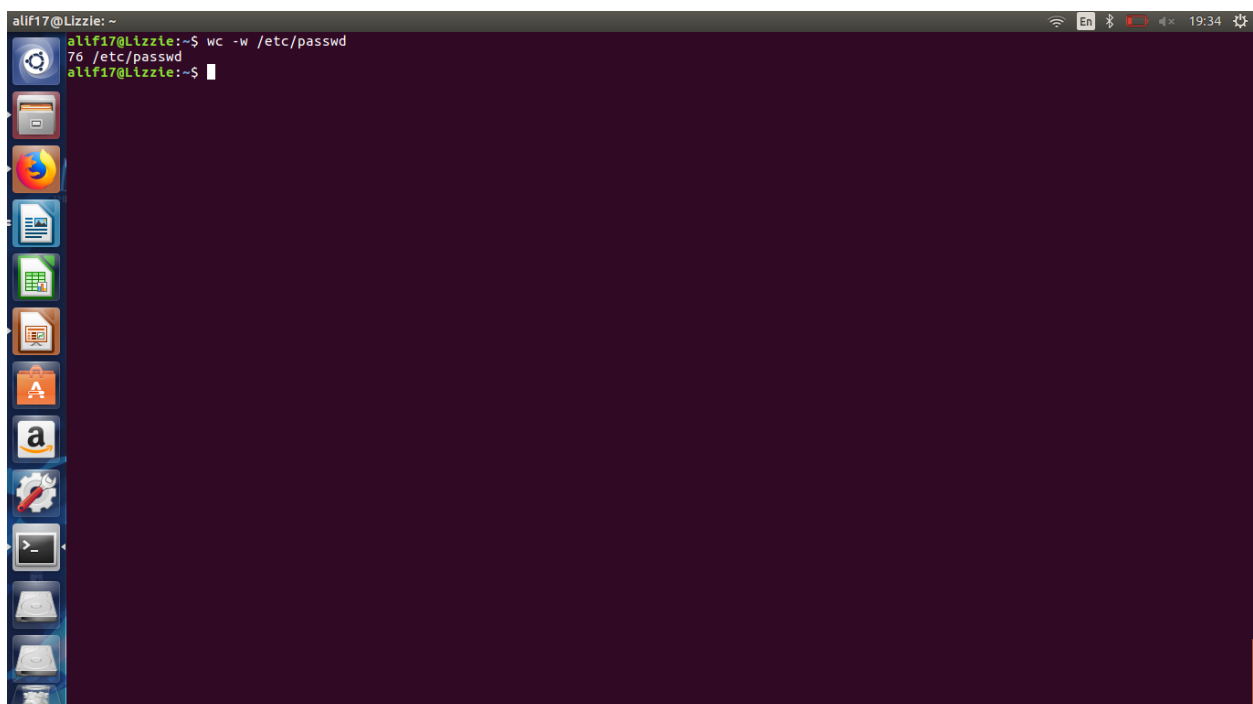
## Modul 8

### 1. Menampilkan bagian akhir file /etc/passwd:



```
alif17@Lizzie: ~  
alif17@Lizzie:~$ tail /etc/passwd  
rtkit:x:118:126:RealtimeKit,,,:/proc:/bin/false  
saned:x:119:127:./var/lib/saned:/bin/false  
usbmux:x:120:46:usbmux daemon,,,:/var/lib/usbmux:/bin/false  
alif17:x:1000:1000:Alif Mukhlilsh,,,:/home/alif17:/bin/bash  
badu:x:1001:1001:./home/badu:  
dudi:x:1002:1002:./home/dudi:  
sshd:x:121:65534:./var/run/ssh:/usr/sbin/nologin  
tsmall:x:1003:1003:./home/tsmall:  
rtfkt:x:1004:1004:./home/rtfkt:  
fikri:x:1005:1005:./home/fikri:  
alif17@Lizzie:~$
```

### 2. Perintah menghitung kata file /etc/passwd:



```
alif17@Lizzie: ~  
alif17@Lizzie:~$ wc -w /etc/passwd  
76 /etc/passwd  
alif17@Lizzie:~$
```

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

```
root@Lizzie: /home/alif17
alif17@Lizzie:~$ sudo su
root@Lizzie: /home/alif17# unzip /etc/conf.zip
Archive:  /etc/conf.zip
  inflating: adduser.conf
  inflating: apg.conf
  inflating: appstream.conf
  inflating: brltty.conf
  inflating: ca-certificates.conf
  inflating: debconf.conf
  inflating: deluser.conf
  inflating: ffserver.conf
  inflating: fuse.conf
  inflating: fwupd.conf
  inflating: gal.conf
  inflating: hdparm.conf
  inflating: host.conf
  inflating: insserv.conf
  inflating: kernel-img.conf
  inflating: kerneloops.conf
  inflating: ld.so.conf
  inflating: libao.conf
  extracting: libaudit.conf
  inflating: logrotate.conf
  inflating: ltrace.conf
  inflating: mke2fs.conf
  inflating: mtools.conf
  inflating: nsswitch.conf
  inflating: pam.conf
  inflating: pnm2ppa.conf
  inflating: popularity-contest.conf
  inflating: resolv.conf
  inflating: rsyslog.conf
  inflating: sensors3.conf
  inflating: signond.conf
  inflating: sysctl.conf
  inflating: ucf.conf
  inflating: updatedb.conf
  inflating: usb_modeswitch.conf
root@Lizzie: /home/alif17#
```

## Modul 9

### 1. Tampilkan halaman manual dari perintah cp:

```
root@Lizzie: /home/alif17
CP(1)                                User Commands                                CP(1)

NAME
  cp - copy files and directories

SYNOPSIS
  cp [OPTION]... [-I] SOURCE DEST
  cp [OPTION]... SOURCE... DIRECTORY
  cp [OPTION]... -t DIRECTORY SOURCE...

DESCRIPTION
  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

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

## 2. Tampilkan halaman info dari perintah date:

```
root@Lizzie: /home/alif17
Next: arch invocation, Up: System context

21.1 'date': Print or set system date and time
=====
Synopsis:
    date [OPTION]... [+FORMAT]
    date [-u|--utc|--universal] [ MMDDhhmm[[CC]YY][.ss] ]

Invoking 'date' with no FORMAT argument is equivalent to invoking it
with a default format that depends on the 'LC_TIME' locale category. In
the default C locale, this format is '+%a %b %e %H:%M:%S %Z %Y', so
the output looks like 'Thu Mar  3 13:47:51 PST 2005'.

Normally, 'date' uses the time zone rules indicated by the 'TZ'
environment variable, or the system default rules if 'TZ' is not set.
*Note Specifying the Time Zone with 'TZ': (libc)TZ Variable.

If given an argument that starts with a '+', 'date' prints the
current date and time (or the date and time specified by the '--date'
option, see below) in the format defined by that argument, which is
similar to that of the 'strftime' function. Except for conversion
specifiers, which start with '%', characters in the format string are
printed unchanged. The conversion specifiers are described below.

An exit status of zero indicates success, and a nonzero value
indicates failure.

* Menu:
* Time conversion specifiers::      %[HkLMNpPrRsSTXzZ]
* Date conversion specifiers::      %[aAbBcCdDeFgGhJmUUVwWxYy]
* Literal conversion specifiers::    %[Xnt]
* Padding and other flags::          Pad with zeros, spaces, etc.
* Setting the time::                 Changing the system clock.
* Options for date::                 Instead of the current time.
* Date input formats::                Specifying date strings.
* Examples of date::                 Examples.

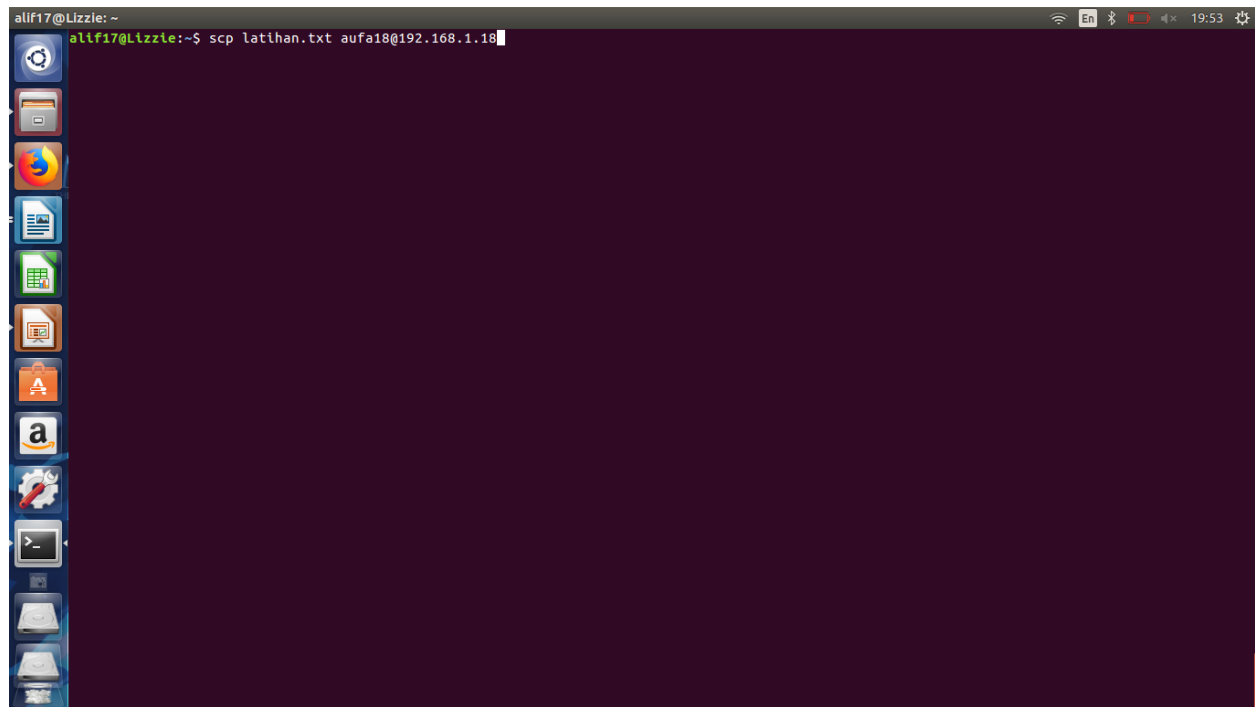
-----Info: (coreutils.info.gz)date invocation, 40 lines --All-----
Welcome to Info version 6.1.  Type H for help, h for tutorial.
```

## Modul 10

### 1. Jalankan Perintah meremote komputer aufa:

```
alif17@Lizzie: ~
alif17@Lizzie:~$ ssh aufa18@192.168.1.18
```

2. Jalankan Perintah mengcopy file latihan ke komputer afa:



The image shows a terminal window on a Linux desktop. The window title is 'alif17@Lizzie: ~'. The command prompt is 'alif17@Lizzie:~\$'. The command entered is 'scp latihan.txt afa18@192.168.1.18'. The terminal is dark purple with white text. On the left side of the desktop, there is a vertical dock with several application icons: a gear (system settings), a folder (file manager), a web browser (Firefox), a document (text editor), a spreadsheet (LibreOffice Calc), a presentation (LibreOffice Impress), a shopping bag (Ubuntu Software Center), an Amazon logo, a gear with a wrench (system tools), a terminal icon, and two other icons at the bottom. The top right of the window shows system status icons: a Wi-Fi signal, a battery level indicator, a Bluetooth icon, and a clock showing '19:53'.

```
alif17@Lizzie:~$ scp latihan.txt afa18@192.168.1.18
```