

PRODI
TEKNIK INFORMATIKA



Mata Kuliah :
Pengantar Open Source dan Aplikasi

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Modul 1

1. Perintah berubah dari user biasa menjadi user root:

```
root@bugas: /home/dian
dian@bugas:~$ sudo su
[sudo] password for dian:
root@bugas:/home/dian#
```

2. Perintah mengubah password user fikri:

```
root@bugas: /home/dian
dian@bugas:~$ sudo su
[sudo] password for dian:
root@bugas:/home/dian# sudo useradd fikri
root@bugas:/home/dian# sudo passwd fikri
Enter new UNIX password:
Retype new UNIX password:
--
```

3. Perintah me-restart Linux:

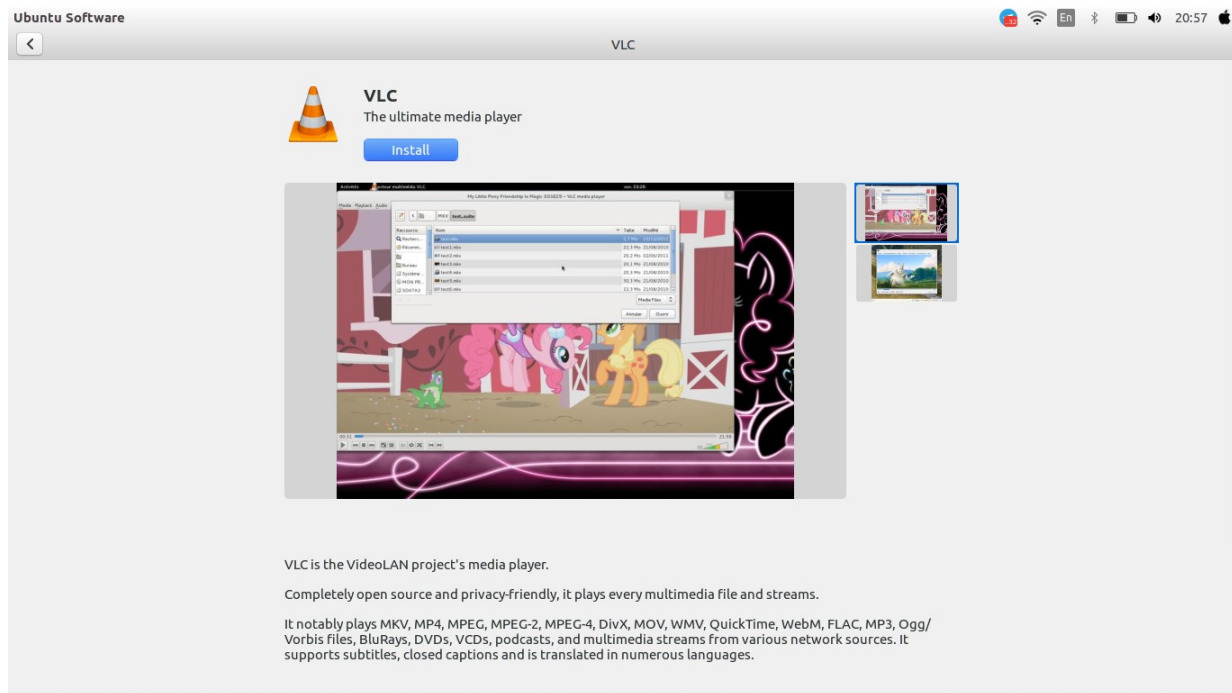
```
root@bugas: /home/dian
root@bugas:/home/dian# reboot
```

4. Perintah mematikan Linux:

```
root@bugas: /home/dian
root@bugas:/home/dian# shutdown -r now
```

Modul 2

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



Modul 4

1. Perintah melihat isi direktori /etc:

```
root@bugas: /home/dian
root@bugas:/home/dian# ls -l /etc/
total 1292
drwxr-xr-x  3 root root    4096 Agu  1  2017 acpi
-rw-r--r--  1 root root    3028 Agu  1  2017 adduser.conf
drwxr-xr-x  2 root root    4096 Des 24 11:55 alternatives
-rw-r--r--  1 root root     401 Des 29 2014 anacrontab
drwxr-xr-x  8 root root    4096 Nov 11 13:17 apache2
-rw-r--r--  1 root root     112 Jan 10 2014 apg.conf
drwxr-xr-x  6 root root    4096 Agu  1  2017 apm
drwxr-xr-x  3 root root    4096 Nov 11 20:35 apparmor
drwxr-xr-x  8 root root    4096 Des 21 06:48 apparmor.d
drwxr-xr-x  5 root root    4096 Nov 11 20:36 appport
-rw-r--r--  1 root root     389 Apr 18 2016 appstream.conf
drwxr-xr-x  6 root root    4096 Des 21 10:24 apt
drwxr-xr-x  3 root root    4096 Agu  1  2017 aptdaemon
drwxr-xr-x  2 root root    4096 Agu  1  2017 at-spi2
drwxr-xr-x  3 root root    4096 Nov 11 20:36 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 Nov 29 20:49 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 binfo.d
drwxr-xr-x  2 root root    4096 Nov 11 20:33 bluetooth
-rw-r--r--  1 root root     33 Agu  1  2017 brlapi.key
```

2. Perintah membuat file bernama latihan:

```
root@bugas: /home/dian
root@bugas:/home/dian# touch latihan
root@bugas:/home/dian#
```

3. Perintah mengubah nama file latihan menjadi ngoding:

```
root@bugas:/home/dian# touch latihan
root@bugas:/home/dian# mv latihan ngoding
root@bugas:/home/dian# ls -l
total 2896
drwxrwxr-x  4 dian dian    4096 Jan  4 20:17 Challeng
drwxr-xr-x  6 dian dian    4096 Jan  4 21:01 Desktop
drwxrwxrwx  2 dian dian    4096 Jan  1 21:12 Document
drwxr-xr-x 12 dian dian  12288 Jan  4 20:41 Download
drwxrwxrwx 19 dian dian    4096 Jan  1 20:59 Github
drwxrwxr-x  2 dian dian    4096 Dec 17 21:22 kdenlive
drwxr-xr-x  2 dian dian    4096 Dec 14 20:30 Music
-rw-r--r--  1 root root      0 Jan  4 21:05 ngoding
```

Modul 5

1. Membuat direktori bernama belajar:

```
root@bugas: /home/dian
root@bugas:/home/dian# mkdir belajar
root@bugas:/home/dian#
```

2. Perintah menghapus file bernama latihan:

```
root@bugas: /home/dian
root@bugas:/home/dian# mkdir belajar
root@bugas:/home/dian# rm latihan
root@bugas:/home/dian#
```

3. Perintah pindah ke direktori /var/lib:

```
root@bugas: /var/lib
root@bugas:/home/dian# mkdir belajar
root@bugas:/home/dian# rm latihan
root@bugas:/home/dian# pwd
/home/dian
root@bugas:/home/dian# cd /var/lib/
root@bugas:/var/lib#
```

4. Cek posisi direktori sekarang:

```
root@bugas: /var/lib
root@bugas:/home/dian# mkdir belajar
root@bugas:/home/dian# rm latihan
root@bugas:/home/dian# pwd
/home/dian
root@bugas:/home/dian# cd /var/lib/
root@bugas:/var/lib# pwd
/var/lib
root@bugas:/var/lib#
```

Modul 6

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

```
root@bugas: /home/dian
root@bugas:/home/dian# chmod 644 latihan
root@bugas:/home/dian# ls -l latihan
-rw-r--r-- 1 root root 0 Jan  4 22:14 latihan
root@bugas:/home/dian#
```

2. Mengubah pemilik file latihan menjadi rifki

```
root@bugas: /home/dian
root@bugas:/home/dian# chgrp rifki latihan
root@bugas:/home/dian# chown rifki latihan
root@bugas:/home/dian# ls -l
total 2900
drwxr-xr-x  2 root  root    4096 Jan  4 21:11 belajar
drwxrwxr-x  4 dian  dian    4096 Jan  4 20:17 Challenge
drwxr-xr-x  6 dian  dian    4096 Jan  4 22:20 Desktop
drwxrwxrwx  2 dian  dian    4096 Jan  1 21:12 document
drwxr-xr-x 13 dian  dian   12288 Jan  4 22:15 Download
drwxrwxrwx 19 dian  dian    4096 Jan  1 20:59 github
drwxrwxr-x  2 dian  dian    4096 Des 17 21:22 kdenlive
-rw-r--r--  1 rifki rifki      0 Jan  4 22:31 latihan
```

Modul 7

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

```
root@bugas: /etc
root@bugas:/etc# tar -czvf config.tar.gz *.conf
adduser.conf
apg.conf
appstream.conf
brltty.conf
ca-certificates.conf
debconf.conf
deluser.conf
ffserver.conf
fuse.conf
_
```

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

```
root@bugas: /etc
root@bugas:/etc# zip conf *.conf
  adding: adduser.conf (deflated 55%)
  adding: apg.conf (deflated 9%)
  adding: appstream.conf (deflated 43%)
  adding: brltty.conf (deflated 71%)
  adding: ca-certificates.conf (deflated 75%)
  adding: debconf.conf (deflated 56%)
  adding: deluser.conf (deflated 40%)
  adding: ffserver.conf (deflated 62%)
  adding: fuse.conf (deflated 35%)
  adding: fwupd.conf (deflated 43%)
```

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

```
root@bugas: /home/dian
root@bugas:/home/dian# unzip conf.zip
Archive:  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
```

Modul 8

1. Menampilkan bagian akhir file /etc/passwd:

```
dian@bugas: ~
dian@bugas:~$ tail /etc/passwd
saned:x:119:127::/var/lib/saned:/bin/false
usbmux:x:120:46:usbmux daemon,,:/var/lib/usbmux:/bin/false
dian:x:1000:1000:dian,,:/home/dian:/bin/bash
mysql:x:999:1001::/home/mysql:
badu:x:1001:1002::/home/badu:
dudi:x:1002:1003::/home/dudi:
dadu:x:1003:1004::/home/dadu:
sshd:x:121:65534::/var/run/sshd:/usr/sbin/nologin
fikri:x:1004:1005::/home/fikri:
rifki:x:1005:1006::/home/rifki:
dian@bugas:~$
```

2. Perintah menghitung kata file /etc/passwd:

```
dian@bugas: ~  
dian@bugas:~$ wc -w /etc/passwd  
76 /etc/passwd  
dian@bugas:~$
```

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

```
dian@bugas: ~  
dian@bugas:~$ grep root /etc/passwd  
root:x:0:0:root:/root:/bin/bash
```

Modul 9

1. Tampilkan halaman manual dari perintah cp:

```
dian@bugas: ~  
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  
  
Manual page cp(1) line 1 (press h for help or q to quit)
```


2. Tampilkan halaman info dari perintah date:

```
dian@bugas: ~
DATE(1)
User Commands
DATE(1)

NAME
    date - print or set the system date and time

SYNOPSIS
    date [OPTION]... [+FORMAT]
    date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]

DESCRIPTION
    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'

    -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: 2006-08-14T02:34:56-0600

    -R, --rfc-2822
        output date and time in RFC 2822 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)

    --help
        display this help and exit

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

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:

```
● ● ● yudha13@yudha: ~
root@bugas:/home# ssh yudha13@192.168.15.95
The authenticity of host '192.168.15.95 (192.168.15.95)' can't be established.
ECDSA key fingerprint is SHA256:Vt6Pus/4tznWK8vPLA+5NT3g2HwUu+hUA1HRnIA3/b4.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.15.95' (ECDSA) to the list of known hosts.
yudha13@192.168.15.95's password:
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.4.0-31-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

Last login: Fri Oct 5 09:04:14 2018
```

2. Jalankan Perintah mengcopy file latihan ke komputer aufa:

```
root@bugas:~# cd /home/dian/
root@bugas:/home/dian# scp latihan yudha13@192.168.15.95:
yudha13@192.168.15.95's password:
latihan                                100%   0    0.0KB/s   00:00
root@bugas:/home/dian#
```