

MODUL 1

1. perintah merubah user biasa menjadi user root:

```
root@ubuntudesktop-VirtualBox: /home/ubuntu-desktop
Berkas Sunting Tampilan Cari Terminal Bantuan
ubuntu-desktop@ubuntudesktop-VirtualBox:~$ sudo su
[sudo] password for ubuntu-desktop:
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop#
```

2. perintah merubah password user:

```
root@ubuntudesktop-VirtualBox: /home/ubuntu-desktop
Berkas Sunting Tampilan Cari Terminal Bantuan
ubuntu-desktop@ubuntudesktop-VirtualBox:~$ sudo su
[sudo] password for ubuntu-desktop:
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# sudo useradd abdul
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# sudo passwd abdul
Masukkan sandi Unix yang baru :
Ketik ulang sandi Unix:
passwd: kata sandi diperbaharui dengan sukses
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop#
```

3. perintah merestart linux:

```
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# sudo useradd abdul
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# sudo passwd abdul
Masukkan sandi Unix yang baru :
Ketik ulang sandi Unix:
passwd: kata sandi diperbaharui dengan sukses
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# reboot
```

4. perintah mematikan linux:

```
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# sudo useradd abdul
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# sudo passwd abdul
Masukkan sandi Unix yang baru :
Ketik ulang sandi Unix:
passwd: kata sandi diperbaharui dengan sukses
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# shutdown -r now
```

MODUL 2

1. perintah menginstall aplikasi vlc:

```
ubuntu-desktop@ubuntu-desktop-VirtualBox: ~  
Berkas Sunting Tampilan Cari Terminal Bantuan  
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ sudo apt install vlc  
[sudo] password for ubuntu-desktop:  
Sedang membaca daftar paket.../Selesai  
Membangun pohon ketergantungan /home/ubuntu-desktop# sudo useradd abdul  
Membaca informasi yang tersedia... Selesai
```

MODUL 4

1. perintah melihat isi direktori:

```
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ ls -l  
total 99516  
drwxr-xr-x 3 root root  
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop  
drwxr-xr-x 2 root root  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rw-r--r-- 1 root root  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop  
op  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rwxrwxrwx 1 1001 1001  
-rw-rw-r-- 1 ubuntu-desktop ubuntu-desktop 101812028 Okt 5 19:49 linux-4.18.12.  
tar.xz  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
drwxr-xr-x 3 root root  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop  
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop  
drwxr-xr-x 4 ubuntu-desktop ubuntu-desktop
```

4. perintah mematikan linux:

File	Size	Month	Day	Time	Owner
backup	4096	Des	15	15:07	backup
belajar	14	Nov	30	09:18	belajar
data2	4096	Des	15	15:11	data2
Desktop	4096	Jan	11	08:50	Desktop
disk.img	1072	Jan	8	20:07	disk.img
Dokumen	4096	Sep	21	08:31	Dokumen
examples.desktop	8980	Sep	21	08:17	examples.desktop
Gambar	4096	Jan	11	09:09	Gambar
latihan	0	Des	28	09:58	latihan
linux-4.18.12.tar.xz	101812028	Okt	5	19:49	linux-4.18.12.tar.xz
manarul	4096	Nov	23	09:44	manarul
mila@10.0.2.15	4096	Des	15	15:14	mila@10.0.2.15
Musik	4096	Sep	21	08:31	Musik
posa	24	Nov	30	09:31	posa
Publik	4096	Sep	21	08:31	Publik
rahma	0	Des	28	09:54	rahma
skrip	14	Des	14	08:51	skrip
snap	4096	Des	14	08:21	snap

2. perintah membuat file bernama latihan:

```
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ touch latihan  
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ ls -l  
total 99516  
drwxr-xr-x 3 root root  
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop  
drwxr-xr-x 2 root root  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rw-r--r-- 1 root root  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop  
op  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop  
-rwxrwxrwx 1 1001 1001  
-rw-rw-r-- 1 ubuntu-desktop ubuntu-desktop 101812028 Okt 5 19:49 linux-4.18.12.  
tar.xz  
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop
```


3. merubah nama file latihan menjadi koding:

```
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ mv latihan koding
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ ls -l
total 99516
drwxr-xr-x 3 root          root          4096 Des 15 15:07 backup
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 14 Nov 30 09:18 belajar
drwxr-xr-x 2 root          root          4096 Des 15 15:11 data2
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 08:50 Desktop
-rw-r--r-- 1 root          root          1072 Jan  8 20:07 disk.img
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Sep 21 08:31 Dokumen
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 8980 Sep 21 08:17 examples.desktop
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 09:21 Gambar
-rwxrwxrwx 1              1001            1001    0 Jan 11 09:20 koding
-rw-rw-r-- 1 ubuntu-desktop ubuntu-desktop 101812028 Okt  5 19:49 linux-4.18.12.tar.xz
```

MODUL 5

1. membuat direktori bernama ngetes:

```
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ mkdir ngetes
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ ls -l
total 99520
drwxr-xr-x 3 root          root          4096 Des 15 15:07 backup
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 14 Nov 30 09:18 belajar
drwxr-xr-x 2 root          root          4096 Des 15 15:11 data2
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 08:50 Desktop
-rw-r--r-- 1 root          root          1072 Jan  8 20:07 disk.img
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Sep 21 08:31 Dokumen
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 8980 Sep 21 08:17 examples.desktop
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 09:24 Gambar
-rwxrwxrwx 1              1001            1001    0 Jan 11 09:20 koding
-rw-rw-r-- 1 ubuntu-desktop ubuntu-desktop 101812028 Okt  5 19:49 linux-4.18.12.tar.xz
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Nov 23 09:44 manarul
drwxr-xr-x 3 root          root          4096 Des 15 15:14 mila@10.0.2.15
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Sep 21 08:31 Musik
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 09:26 ngetes
```

2. menghapus file bernama koding:

```

ubuntu-desktop@ubuntudesktop-VirtualBox:~$ rm koding
ubuntu-desktop@ubuntudesktop-VirtualBox:~$ ls -l
total 99520
drwxr-xr-x 3 root root 4096 Des 15 15:07 backup
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 14 Nov 30 09:18 belajar
drwxr-xr-x 2 root root 4096 Des 15 15:11 data2
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 08:50 Desktop
-rw-r--r-- 1 root root 1072 Jan 8 20:07 disk.img
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Sep 21 08:31 Dokumen
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 8980 Sep 21 08:17 examples.desktop
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 09:27 Gambar
-rw-rw-r-- 1 ubuntu-desktop ubuntu-desktop 101812028 Okt 5 19:49 linux-4.18.12.tar.xz
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Nov 23 09:44 manarul
drwxr-xr-x 3 root root 4096 Des 15 15:14 mila@10.0.2.15
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Sep 21 08:31 Musik
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Jan 11 09:26 ngetes
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 24 Nov 30 09:31 posa
drwxr-xr-x 2 ubuntu-desktop ubuntu-desktop 4096 Sep 21 08:31 Publik
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 0 Des 28 09:54 rahma
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 14 Des 14 08:51 skrip
drwxr-xr-x 4 ubuntu-desktop ubuntu-desktop 4096 Des 14 08:21 snap

```

3. perintah pindah ke direktori / var / lib:

```

ubuntu-desktop@ubuntudesktop-VirtualBox:~$ sudo su
[sudo] password for ubuntu-desktop:
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# cd /var/lib/
root@ubuntudesktop-VirtualBox:/var/lib#

```

4. cek posisi direktori sekarang:

```

root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# cd /var/lib/
root@ubuntudesktop-VirtualBox:/var/lib# pwd
/var/lib
root@ubuntudesktop-VirtualBox:/var/lib#

```

MODUL 6

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

```

ubuntu-desktop@ubuntudesktop-VirtualBox:~$ chmod 644 belajar
ubuntu-desktop@ubuntudesktop-VirtualBox:~$ ls -l belajar
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 14 Nov 30 09:18 belajar
ubuntu-desktop@ubuntudesktop-VirtualBox:~$

```

2. mengubah pemilik file:

```

root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# chgrp abdul belajar
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# ls -l belajar
-rw-r--r-- 1 ubuntu-desktop abdul 14 Nov 30 09:18 belajar
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# chown abdul belajar
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# ls -l belajar
-rw-r--r-- 1 abdul abdul 14 Nov 30 09:18 belajar
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop#

```

MODUL 7

1. perintah mengarsip dan mengkompresi seluruh file .conf di / etc / dengan tar dan gzip secara bersamaan:


```

root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# cd /etc/
root@ubuntudesktop-VirtualBox:/etc# tar -czvf config.tar.gz *conf
adduser.conf
apg.conf
appstream.conf
brltty.conf
ca-certificates.conf
dconf/
dconf/db/
dconf/db/ibus
dconf/db/ibus.d/
dconf/db/ibus.d/00-upstream-settings
dconf/profile/
dconf/profile/ibus
debconf.conf
deluser.conf
fuse.conf
gai.conf
hdparm.conf
host.conf

```

1. mengubah izin akses file lauhan menjadi rw-r--r--

```

root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# chmod -R rw-r--r-- /etc/config.tar.gz
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# ls -la /etc/config.tar.gz
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 14 Nov 30 09:14 /etc/config.tar.gz

```

2. mengubah pemilik file:

```

root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# chown ubuntu-desktop:ubuntu-desktop /etc/config.tar.gz
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# ls -la /etc/config.tar.gz
-rw-r--r-- 1 ubuntu-desktop ubuntu-desktop 14 Nov 30 09:14 /etc/config.tar.gz

```

2. perintah mengarsip dan mengkompresi seluruh file .conf di / etc / dengan zip:

```

root@ubuntudesktop-VirtualBox:/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: dconf/ (stored 0%)
adding: debconf.conf (deflated 56%)
adding: deluser.conf (deflated 40%)
adding: fuse.conf (deflated 35%)
adding: gai.conf (deflated 57%)
adding: hdparm.conf (deflated 57%)
adding: host.conf (deflated 13%)
adding: kernel-img.conf (deflated 10%)
adding: kerneloops.conf (deflated 51%)
adding: ld.so.conf (deflated 6%)

```

1. perintah mengarsip dan mengkompresi seluruh file .conf di / etc / dengan zip:

```

root@ubuntudesktop-VirtualBox:/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: dconf/ (stored 0%)
adding: debconf.conf (deflated 56%)
adding: deluser.conf (deflated 40%)
adding: fuse.conf (deflated 35%)
adding: gai.conf (deflated 57%)
adding: hdparm.conf (deflated 57%)
adding: host.conf (deflated 13%)
adding: kernel-img.conf (deflated 10%)
adding: kerneloops.conf (deflated 51%)
adding: ld.so.conf (deflated 6%)

```

3. perintah mengekstrak zip yang sudah dikompresi di atas:

```

root@ubuntu-desktop-VirtualBox:/etc# unzip conf.*conf
Archive:  conf.
replace adduser.conf? [y]es, [n]o, [A]ll, [N]one, [r]ename: n
replace apg.conf? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: apg.conf
replace appstream.conf? [y]es, [n]o, [A]ll, [N]one, [r]ename: yes
  inflating: appstream.conf
replace brltty.conf? [y]es, [n]o, [A]ll, [N]one, [r]ename: all
error:  invalid response [all]
replace brltty.conf? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: brltty.conf
replace ca-certificates.conf? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: ca-certificates.conf
replace debconf.conf? [y]es, [n]o, [A]ll, [N]one, [r]ename: All
  inflating: debconf.conf
  inflating: deluser.conf
  inflating: fuse.conf
  inflating: gai.conf
  inflating: hdparm.conf
  inflating: host.conf
  inflating: kernel-img.conf
  inflating: kerneloops.conf
2. perintah mengarsip dan mengkompresi
  adding: adduser.conf (deflated 55%)
  adding: apg.conf (deflated 55%)
  adding: appstream.conf (deflate
  adding: brltty.conf (deflated 7
  adding: ca-certificates.conf (d
  adding: dconf/ (stored 8%)
  adding: debconf.conf (deflated
  adding: deluser.conf (deflated
  adding: fuse.conf (deflated 35%

```

MODUL 8

1. menampilkan bagian akhir file / etc / passwd:

```

ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ tail /etc/passwd
ubuntu-desktop:x:1000:1000:Ubuntu18.04,,,:/home/ubuntu-desktop:/bin/bash
cups-pk-helper:x:121:116:user for cups-pk-helper service,,,:/home/cups-pk-helper
:/usr/sbin/nologin
mila:x:1002:1002:,,,:/home/mila:/bin/bash
sshd:x:122:65534::/run/sshd:/usr/sbin/nologin
susi:x:1003:1003::/home/susi:/bin/sh
bind:x:123:127::/var/cache/bind:/usr/sbin/nologin
rifqi:x:1004:1004::/home/rifqi:/bin/sh
mahdi:x:1005:1005::/home/mahdi:/bin/sh
ibnu:x:1006:1008::/home/ibnu:/bin/sh
abdul:x:1007:1009::/home/abdul:/bin/sh

```

2. perintah menghitung kata file / etc / passwd:

```

ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ wc -w /etc/passwd
77 /etc/passwd
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$

```

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

```

ubuntu-desktop@ubuntu-desktop-VirtualBox:~$ grep root /etc/passwd
root:x:0:0:root:/root:/bin/bash
ubuntu-desktop@ubuntu-desktop-VirtualBox:~$

```

MODUL 9

1. tampilkan halaman manual dari perintah cp:

```
ubuntu-desktop@ubuntudesktop-VirtualBox: ~
Berkas Sunting Tampilan Cari Terminal Bantuan
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]

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

2. tampilkan halaman info dari perintah date:


```
ubuntu-desktop@ubuntudesktop-VirtualBox: ~
Berkas Sunting Tampilan Cari Terminal Bantuan
Next: arch invocation, Up: System context
21.1 'date': Print or set system date and time
=====
Synopses:

    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
-----Info: (coreutils)date invocation, 40 lines --Top-----
```

MODUL 10

terdapat sebuah sistem linux dengan ip dan username sebagai berikut:

ip address: 192.168.60.113
username: ubuntu-desktop

1. jalankan perintah remote:

```
root@ubuntudesktop-VirtualBox:/home/ubuntu-desktop# ssh ubuntu-desktop@192.168.60.113
The authenticity of host '192.168.60.113 (192.168.60.113)' can't be established.
ECDSA key fingerprint is SHA256:WnHs0snqaj0fh2Axx+NcfBTyPKyyyi7N8qogpJcQUbc.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.60.113' (ECDSA) to the list of known hosts.
ubuntu-desktop@192.168.60.113's password:
Welcome to Ubuntu 18.04.1 LTS (GNU/Linux 4.15.0-43-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

234 paket bisa diperbarui.
Pembaharuan 0 merupakan perbaikan keamanan.

Last login: Fri Dec 28 08:53:14 2018 from 192.168.60.93
ubuntu-desktop@ubuntudesktop-VirtualBox:~$
```


2. jalankan perintah copy file belajar: