

LAPORAN PRAKTIKUM SISTEM OPERASI
MODUL 7 : MANAGEMEN USER DAN PERMISSION DIREKTORI/FILE PADA
LINUX



DISUSUN OLEH:

NAMA : BIMA TRIADMAJA

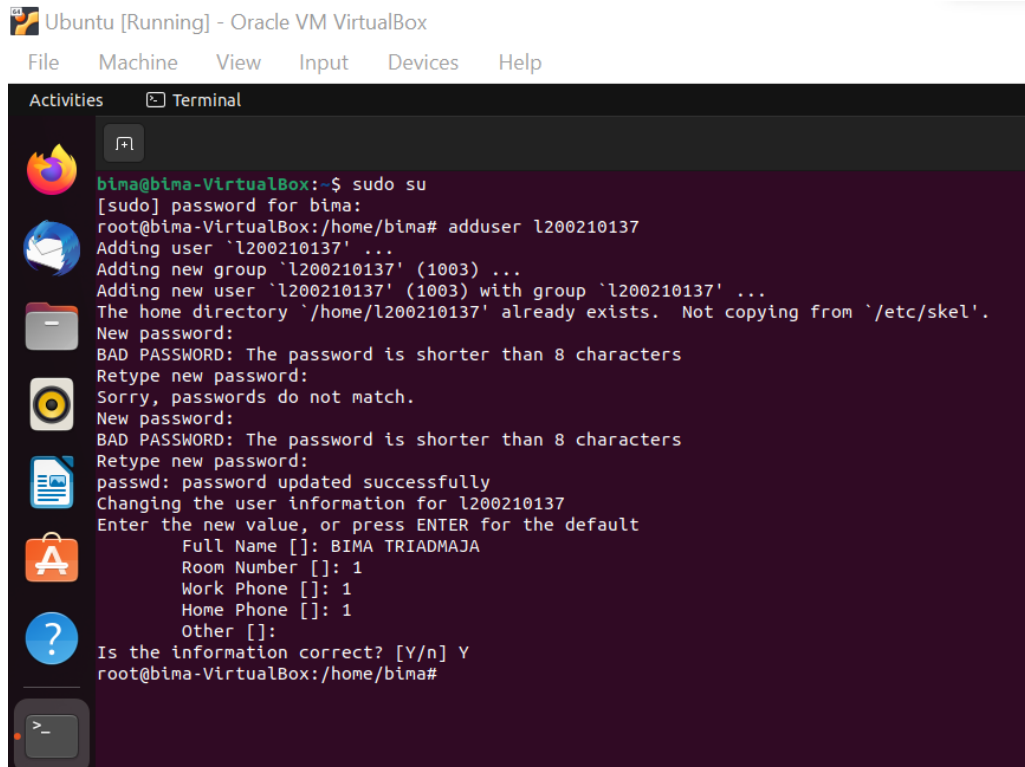
NIM : L200210137

KELAS : C

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA
TAHUN 2022/2023

LANGKAH PRAKTIKUM 1 :

1. Pertama buka terminal linux, kemudian masuk ke super user '**sudo su**', kemudian masukkan password user kalian (password tidak ditampilkan).
2. Setelah masuk ke sudo su, buatlah userbaru dengan perintah '**adduser nim**', kemudian masukkan password user yang kalian buat. Masukan nama lengkap, dan data diri lainnya. Jika sudah selesai masukkan '**y**' (yes)

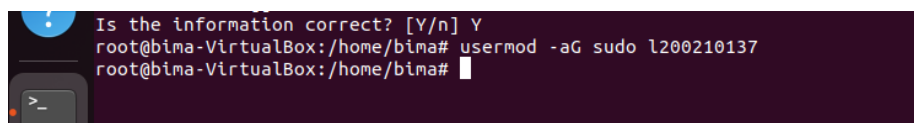


```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Activities Terminal

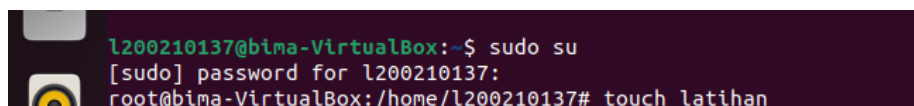
bima@bima-VirtualBox:~$ sudo su
[sudo] password for bima:
root@bima-VirtualBox:/home/bima# adduser l200210137
Adding user `l200210137' ...
Adding new group `l200210137' (1003) ...
Adding new user `l200210137' (1003) with group `l200210137' ...
The home directory `/home/l200210137' already exists. Not copying from `/etc/skel'.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for l200210137
Enter the new value, or press ENTER for the default
  Full Name []: BIMA TRIADMAJA
    Room Number []: 1
    Work Phone []: 1
    Home Phone []: 1
      Other []:
Is the information correct? [Y/n] Y
root@bima-VirtualBox:/home/bima#
```

Kemudian ubah previlage user yang kalian buat agar dapat masuk ke sudo su dengan,
usermod -aG sudo l200210137



```
Is the information correct? [Y/n] Y
root@bima-VirtualBox:/home/bima# usermod -aG sudo l200210137
root@bima-VirtualBox:/home/bima#
```

Jika sudah logout user, dan beralih ke user yang baru dibuat tadi. (l200210137).
Berikut user l200210137 sudah bisa masuk ke sudo su



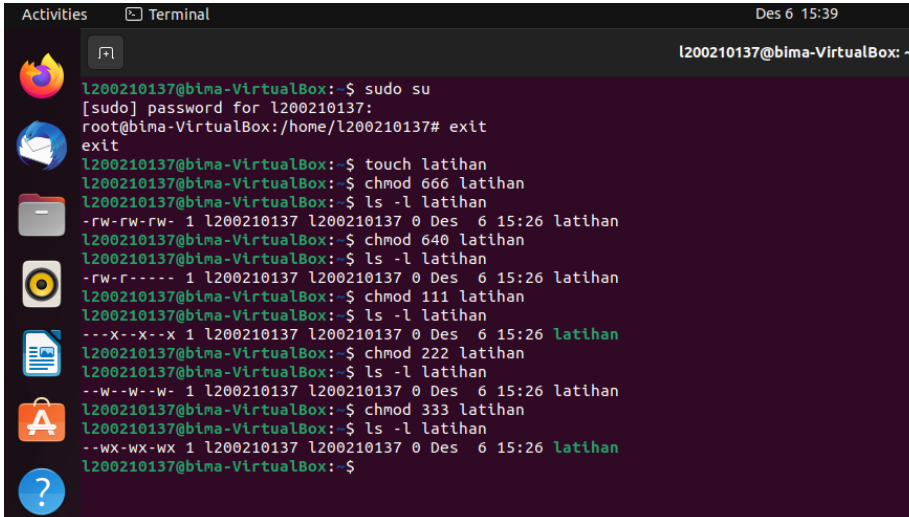
```
l200210137@bima-VirtualBox:~$ sudo su
[sudo] password for l200210137:
root@bima-VirtualBox:/home/l200210137# touch latihan
```

LANGKAH PRAKTIKUM 2 :

1. Membuat file latihan : **touch latihan**

```
l200210137@bima-VirtualBox:~$ touch latihan
l200210137@bima-VirtualBox:~$ chmod 666 latihan
```

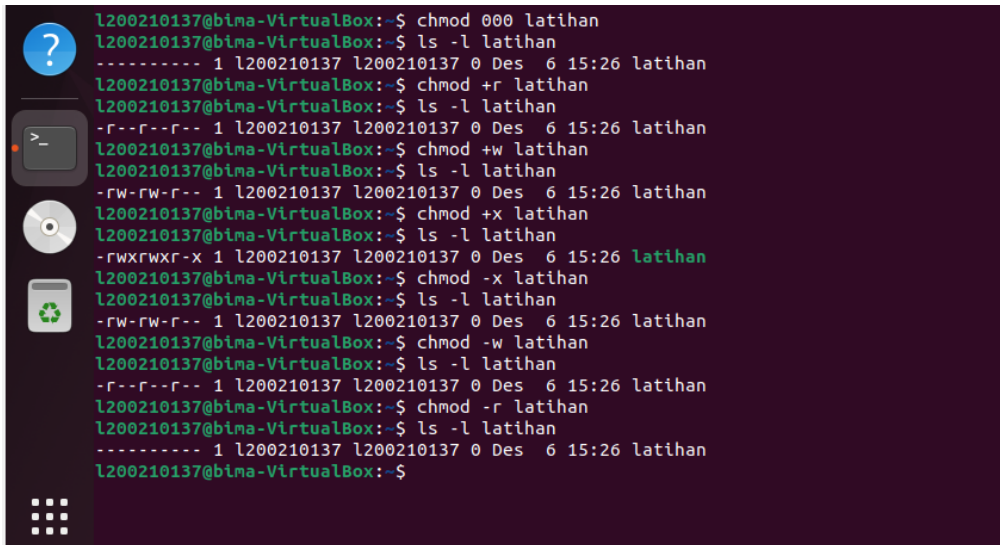
2. Mengubah permission file menggunakan chmod



The screenshot shows a terminal window with the following commands and output:

```
Activities Terminal Des 6 15:39
l200210137@bima-VirtualBox: ~
l200210137@bima-VirtualBox:~$ sudo su
[sudo] password for l200210137:
root@bima-VirtualBox:/home/l200210137# exit
exit
l200210137@bima-VirtualBox:~$ touch latihan
l200210137@bima-VirtualBox:~$ chmod 666 latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
-rw-rw-rw- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod 640 latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
-rw-r----- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod 111 latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
---x--x--x 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod 222 latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
--w--w--w 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod 333 latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
--wx--wx-wx 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$
```

LANGKAH PRAKTIKUM 3 :

A screenshot of a terminal window with a dark purple background. On the left side, there are four circular icons: a question mark, a terminal window, a CD/DVD, and a recycling symbol. The terminal text shows a sequence of commands and their outputs. The user is logged in as 'l200210137' on a machine named 'bima-VirtualBox'. The commands and outputs are as follows:

```
l200210137@bima-VirtualBox:~$ chmod 000 latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
----- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod +r latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod +w latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod +x latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod -x latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod -w latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$ chmod -r latihan
l200210137@bima-VirtualBox:~$ ls -l latihan
----- 1 l200210137 l200210137 0 Des  6 15:26 latihan
l200210137@bima-VirtualBox:~$
```

Chmod 666 (RW / RW / RW)

- Opsi ini memungkinkan semua pengguna untuk membaca dan menulis ke file.

Chmod 640 (RW / R / ---)

- Opsi ini memungkinkan pengguna untuk membaca dan menulis ke file, sementara grup dapat membaca dan pengguna lain tidak memiliki permission apapun.

Chmod 111 (X / X / X)

- Opsi ini memungkinkan semua pengguna untuk dapat mengeksekusi sebuah file.

Chmod 222 (R / R / R)

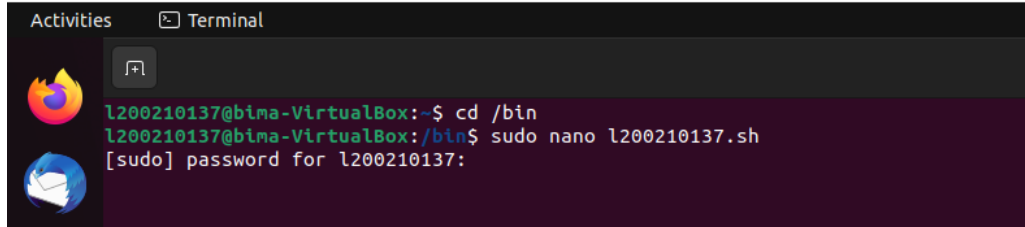
- Opsi ini memungkinkan semua pengguna untuk dapat mencoba sebuah file.

Chmod 333 (RX / RX /RX)

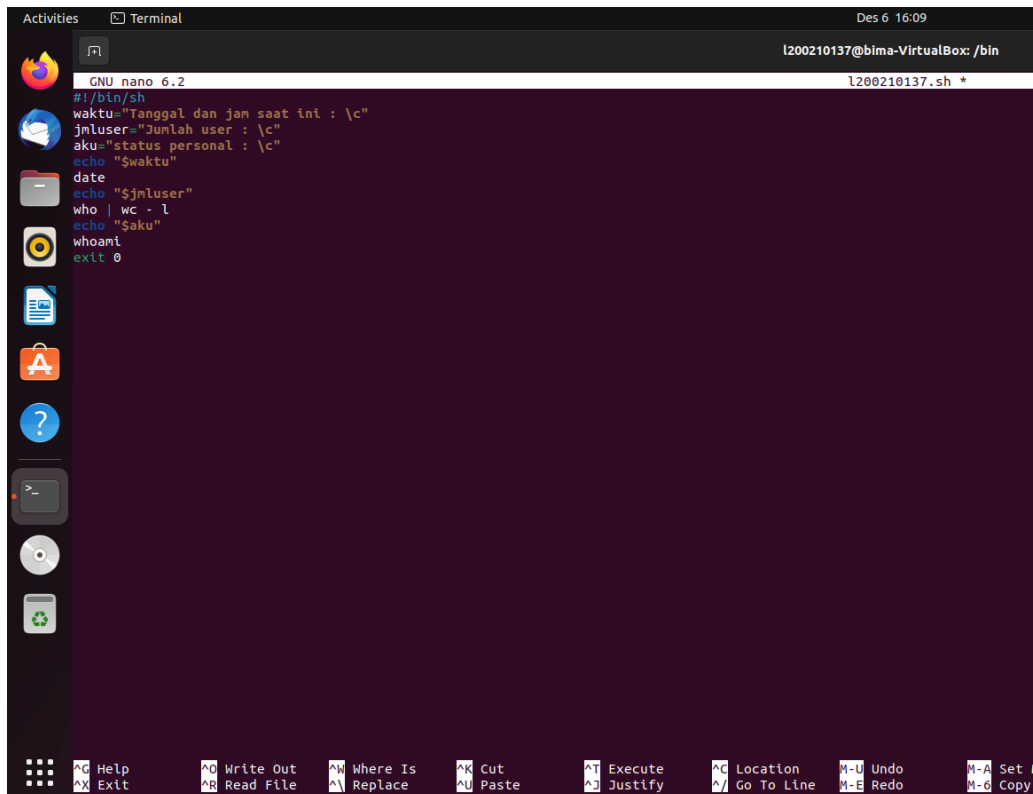
- Opsi ini memungkinkan semua pengguna untuk dapat menulis dan mengeksekusi file.

LANGKAH PRAKTIKUM 4 :

1. Masuk ke direktori/bin dengan perintah **cd /bin**
2. Buat file dengan nama nim.sh (l200210137.sh) dengan perintah **sudo nano l200210137.sh**

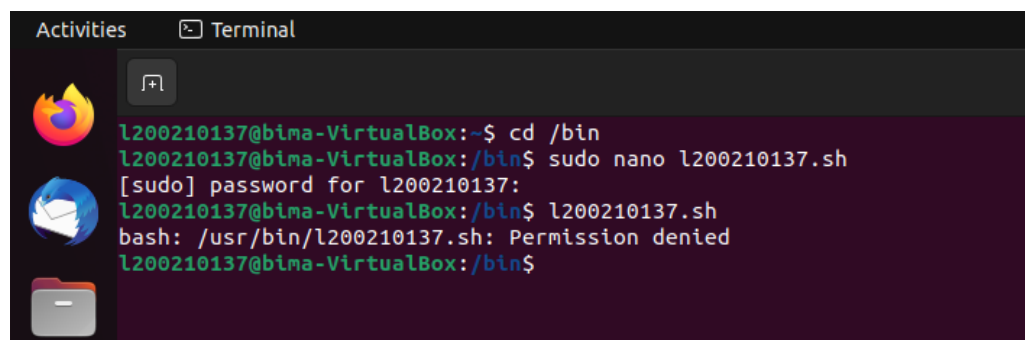


```
Activities Terminal
l200210137@bima-VirtualBox:~$ cd /bin
l200210137@bima-VirtualBox:/bin$ sudo nano l200210137.sh
[sudo] password for l200210137:
```



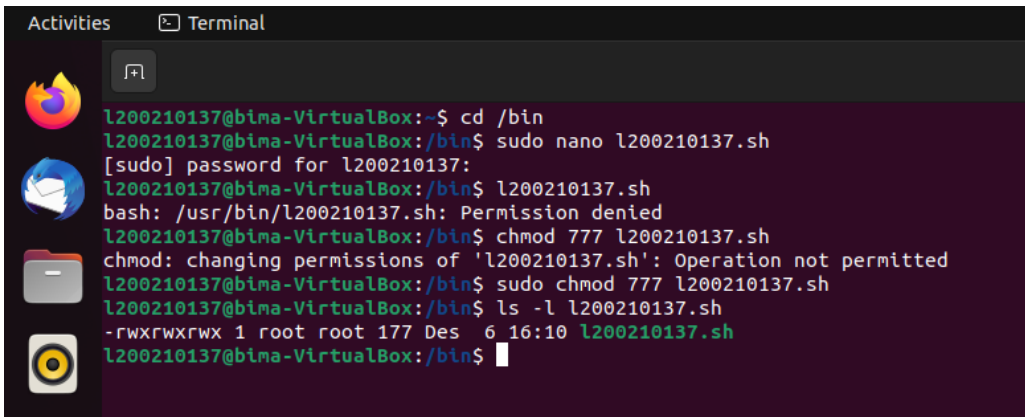
```
Activities Terminal Des 6 16:09 l200210137@bima-VirtualBox: /bin
GNU nano 6.2 l200210137.sh *
#!/bin/sh
waktu="Tanggal dan jam saat ini : \c"
jmluser="Jumlah user : \c"
aku="status personal : \c"
echo "$waktu"
date
echo "$jmluser"
who | wc -l
echo "$aku"
whoami
exit 0
```

3. Setelah itu buka file **l200210137.sh**, maka akan muncul informasi permission denied / akses ditolak karena permissionnya belum di ubah.



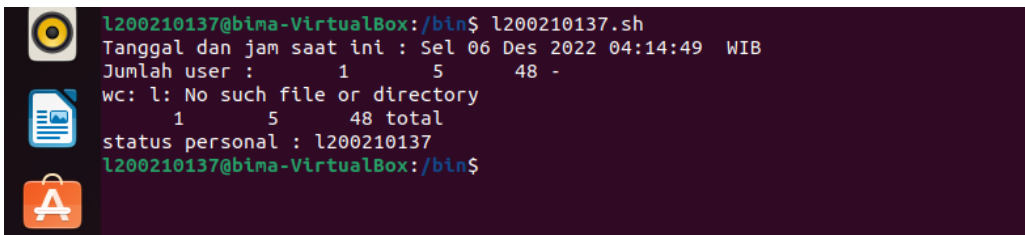
```
Activities Terminal
l200210137@bima-VirtualBox:~$ cd /bin
l200210137@bima-VirtualBox:/bin$ sudo nano l200210137.sh
[sudo] password for l200210137:
l200210137@bima-VirtualBox:/bin$ l200210137.sh
bash: /usr/bin/l200210137.sh: Permission denied
l200210137@bima-VirtualBox:/bin$
```

4. Ubah permission file agar dapat di read/write/execute dengan perintah **sudo chmod 777 l200210137.sh**, kemudian masukkan perintah **ls -l l200210137.sh**

A terminal window titled 'Terminal' with a dark background. The prompt is 'l200210137@bima-VirtualBox:~\$'. The user enters 'cd /bin', and the prompt changes to 'l200210137@bima-VirtualBox:/bin\$'. Then, the user enters 'sudo nano l200210137.sh', and the prompt changes to '[sudo] password for l200210137:'. The user enters a password (not visible), and the prompt returns to 'l200210137@bima-VirtualBox:/bin\$'. The user enters 'l200210137.sh', and the prompt changes to 'bash: /usr/bin/l200210137.sh: Permission denied'. Then, the user enters 'chmod 777 l200210137.sh', and the prompt returns to 'l200210137@bima-VirtualBox:/bin\$'. The user enters 'sudo chmod 777 l200210137.sh', and the prompt returns to 'l200210137@bima-VirtualBox:/bin\$'. Finally, the user enters 'ls -l l200210137.sh', and the output is '-rwxrwxrwx 1 root root 177 Des 6 16:10 l200210137.sh'.

```
l200210137@bima-VirtualBox:~$ cd /bin
l200210137@bima-VirtualBox:/bin$ sudo nano l200210137.sh
[sudo] password for l200210137:
l200210137@bima-VirtualBox:/bin$ l200210137.sh
bash: /usr/bin/l200210137.sh: Permission denied
l200210137@bima-VirtualBox:/bin$ chmod 777 l200210137.sh
chmod: changing permissions of 'l200210137.sh': Operation not permitted
l200210137@bima-VirtualBox:/bin$ sudo chmod 777 l200210137.sh
l200210137@bima-VirtualBox:/bin$ ls -l l200210137.sh
-rwxrwxrwx 1 root root 177 Des 6 16:10 l200210137.sh
l200210137@bima-VirtualBox:/bin$
```

5. kembali buka file **L200210137.sh**, Jika file diakses dan tidak terjadi error akan muncul sebagai berikut :

A terminal window showing the output of running 'l200210137.sh'. The prompt is 'l200210137@bima-VirtualBox:/bin\$'. The output is: 'Tanggal dan jam saat ini : Sel 06 Des 2022 04:14:49 WIB', 'Jumlah user : 1 5 48 -', 'wc: l: No such file or directory', '1 5 48 total', and 'status personal : l200210137'. The prompt returns to 'l200210137@bima-VirtualBox:/bin\$'.

```
l200210137@bima-VirtualBox:/bin$ l200210137.sh
Tanggal dan jam saat ini : Sel 06 Des 2022 04:14:49 WIB
Jumlah user : 1 5 48 -
wc: l: No such file or directory
1 5 48 total
status personal : l200210137
l200210137@bima-VirtualBox:/bin$
```