

# **LAPORAN PRAKTIKUM SISTEM OPERASI**



Disusun oleh :

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L200210251

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

## Lembar Kerja Modul 7

Nama : Irvianti Dwityara Sany	Nilai Praktek :
NIM : L200210251	
Nama Asisten :	Tanda Tangan :
Tanggal Praktikum : Selasa, 29 November 2022	

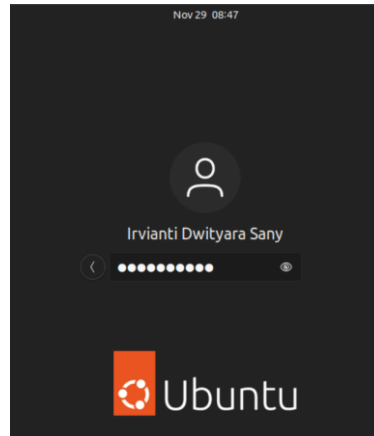
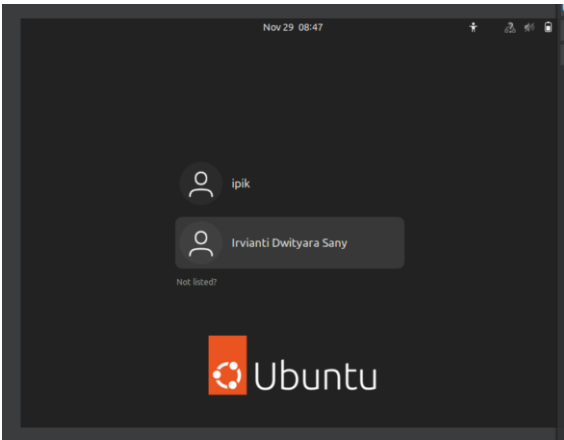
### PRAKTIKUM 1

Membuat user baru dengan nama nim menggunakan *adduser* dan memasukkan password dua kali.  
Dilanjutkan memasukkan user information dengan data data yang diminta.

```
root@ipik-VirtualBox: /home/ipik

ipik@ipik-VirtualBox:~$ sudo su
[sudo] password for ipik:
root@ipik-VirtualBox:/home/ipik# adduser l200210251
Adding user `l200210251' ...
Adding new group `l200210251' (1002) ...
Adding new user `l200210251' (1002) with group `l200210251' ...
Creating home directory `/home/l200210251' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for l200210251
Enter the new value, or press ENTER for the default
    Full Name []: Irvianti Dwityara Sany
    Room Number []: 0811
    Work Phone []: 085325350602
    Home Phone []: 391288
    Other []: semangats
Is the information correct? [Y/n] y
```

Kemudian keluar dari shell dengan mengetikkan *exit* kemudian menutup jendela shell. Lalu keluar dari gnome dengan mengeklik tombol LogOut dan kemudian LogIn menggunakan user dan password yang baru saja dibuat.



## PRAKTIKUM 2

Membuat file latihan dengan perintah *touch latihan*. Kemudian ketikkan perintah *chmod 666 latihan* dan untuk melihat hasilnya menggunakan perintah *ls -l*

```
es Terminal Nov 29 08:53
l200210251@ipik-VirtualBox: ~
l200210251@ipik-VirtualBox:~$ touch latihan
l200210251@ipik-VirtualBox:~$ chmod 666 latihan
l200210251@ipik-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Desktop
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Documents
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Downloads
-rw-rw-rw- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Music
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Pictures
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Public
drwx----- 3 l200210251 l200210251 4096 Nov 29 08:47 snap
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Templates
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Videos
```

Ketikkan perintah *chmod 640 latihan* dan untuk melihat hasilnya menggunakan perintah *ls -l*

```
l200210251@ipik-VirtualBox:~$ chmod 640 latihan
l200210251@ipik-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Desktop
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Documents
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Downloads
-rw-r----- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Music
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Pictures
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Public
drwx----- 3 l200210251 l200210251 4096 Nov 29 08:47 snap
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Templates
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Videos
l200210251@ipik-VirtualBox:~$
```



Ketikkan perintah *chmod 111 latihan* dan untuk melihat hasilnya menggunakan perintah *ls -l*

```
l200210251@ipik-VirtualBox:~$ chmod 111 latihan
l200210251@ipik-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Desktop
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Documents
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Downloads
---x--x--x 1 l200210251 l200210251    0 Nov 29 08:52 latihan
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Music
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Pictures
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Public
drwx----- 3 l200210251 l200210251 4096 Nov 29 08:47 snap
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Templates
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Videos
```

Ketikkan perintah *chmod 222 latihan* dan untuk melihat hasilnya menggunakan perintah *ls -l*

```
l200210251@ipik-VirtualBox:~$ chmod 222 latihan
l200210251@ipik-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Desktop
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Documents
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Downloads
--w--w--w- 1 l200210251 l200210251    0 Nov 29 08:52 latihan
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Music
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Pictures
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Public
drwx----- 3 l200210251 l200210251 4096 Nov 29 08:47 snap
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Templates
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Videos
l200210251@ipik-VirtualBox:~$
```

Ketikkan perintah *chmod 333 latihan* dan untuk melihat hasilnya menggunakan perintah *ls -l*

```
l200210251@ipik-VirtualBox:~$ chmod 333 latihan
l200210251@ipik-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Desktop
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Documents
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Downloads
--wx-wx-wx 1 l200210251 l200210251    0 Nov 29 08:52 latihan
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Music
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Pictures
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Public
drwx----- 3 l200210251 l200210251 4096 Nov 29 08:47 snap
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Templates
drwxr-xr-x 2 l200210251 l200210251 4096 Nov 29 08:47 Videos
l200210251@ipik-VirtualBox:~$
```

### PRAKTIKUM 3

Melakukan perubahan hak akses menggunakan operand +x, +r, +w, -r, -w, -x pada chmod

```
l200210251@ipik-VirtualBox:~$ chmod 000 latihan
l200210251@ipik-VirtualBox:~$ ls -l latihan
----- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
l200210251@ipik-VirtualBox:~$ chmod +r latihan
l200210251@ipik-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
l200210251@ipik-VirtualBox:~$ chmod +w latihan
l200210251@ipik-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
l200210251@ipik-VirtualBox:~$ chmod +x latihan
l200210251@ipik-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 l200210251 l200210251 0 Nov 29 08:52 latihan
l200210251@ipik-VirtualBox:~$ chmod -x latihan
l200210251@ipik-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
l200210251@ipik-VirtualBox:~$ chmod -w latihan
l200210251@ipik-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
l200210251@ipik-VirtualBox:~$ chmod -r latihan
l200210251@ipik-VirtualBox:~$ ls -l latihan
----- 1 l200210251 l200210251 0 Nov 29 08:52 latihan
l200210251@ipik-VirtualBox:~$
```

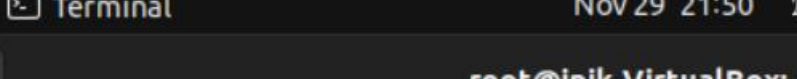
### PRAKTIKUM 4

Menginstal terlebih dahulu text editor vim dengan perintah *apt-get install vim*

```
root@ipik-VirtualBox:/home/ipik# apt-get install vim
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  vim-common vim-runtime vim-tiny
Suggested packages:
  ctags vim-doc vim-scripts indent
The following NEW packages will be installed:
  vim vim-runtime
The following packages will be upgraded:
  vim-common vim-tiny
2 upgraded, 2 newly installed, 0 to remove and 169 not upgraded.
Need to get 9.345 kB of archives.
After this operation, 37,6 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Abort.
root@ipik-VirtualBox:/home/ipik#
```



Kemudian masuk ke direktori `/bin` dengan perintah `cd /bin`. Lalu buat file dengan perintah `vi l200210251.sh`



The screenshot shows a terminal window with a dark background. The title bar at the top indicates the window is titled 'Terminal' and shows the date and time as 'Nov 29 21:50'. The prompt 'root@ipik-VirtualBox: /bin' is visible at the top right. The terminal content shows a user 'ipik' at 'ipik-VirtualBox' in the home directory '~' using 'sudo su' to become root. The prompt changes to 'root@ipik-VirtualBox:/home/ipik#'. The user then runs 'cd /bin', changing the prompt to 'root@ipik-VirtualBox:/bin#'. Finally, the user runs 'vi l200210251.sh', which opens the file in the vi editor.

```
es  Terminal  Nov 29 21:50  [bell icon]

root@ipik-VirtualBox: /bin

ipik@ipik-VirtualBox:~$ sudo su
[sudo] password for ipik:
root@ipik-VirtualBox:/home/ipik# cd /bin
root@ipik-VirtualBox:/bin# vi l200210251.sh
```

Kemudian ketik kode sebagai berikut:

```
ipik@ipik-VirtualBox: /bin
# !/bin/sh
WAKTU="Tanggal dan jam saat ini : \c"
JMLUSER="Jumlah user : \c" AKU="Status personal : \c"
echo -e "$WAKTU"
date
echo -e "$JMLUSER"
who | wc -l
echo -e "$AKU"
whoami
exit 0
```

-- INSERT --

Lalu simpan dan keluar dengan menekan ESC dan mengetik :*wq* kemudian ENTER

```
ipik@ipik-VirtualBox: /bin
# !/bin/sh
WAKTU="Tanggal dan jam saat ini : \c"
JMLUSER="Jumlah user : \c" AKU="Status personal : \c"
echo -e "$WAKTU"
date
echo -e "$JMLUSER"
who | wc -l
echo -e "$AKU"
whoami
exit 0
```

Ketikan perintah `l200210251.sh` kemudian ubah tipe file sehingga bisa dieksekusi dengan perintah `chmod 777 l200210251.sh` Lalu ketikkan perintah `l200210251.sh`

```
root@ipik-VirtualBox:/bin# l200210251.sh
bash: /usr/bin/l200210251.sh: Permission denied
root@ipik-VirtualBox:/bin# chmod 777 l200210251.sh
root@ipik-VirtualBox:/bin# l200210251.sh
Tanggal dan jam saat ini : Sel 29 Nov 2022 09:55:48 WIB
Jumlah user : 2
Status personal : root
root@ipik-VirtualBox:/bin#
```