

# **Laporan Praktikum 11**

## **Pengantar Open Source dan Aplikasi**

**“Administrasi Sistem dan Pengguna”**



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# Modul XI Administrasi Sistem dan Pengguna

## A. Tujuan

1. Mampu menggunakan program administrasi sistem dasar seperti pengubahan tanggal, akses jaringan, dll.
2. Mampu menggunakan program di desktop dan terminal untuk menambah pengguna, menghapus pengguna, dan memodifikasi hak pengguna.

## B. Teori Singkat

Menurut saya teori singkat mengenai modul ini, yaitu :

Pada sistem operasi linux kita dapat menjadi administrator yang dapat melakukan administrasi sistem dan administrasi pengguna.

Administrasi sistem yaitu mengatur sistem yang dijalankan pada sebuah komputer dengan menggunakan superuser untuk mengaksesnya mulai dari menage proses, monitoring sistem.

Administrasi pengguna yaitu mengatur user dan group seperti menambah, menghapus, dan mengubah suatu user atau group.

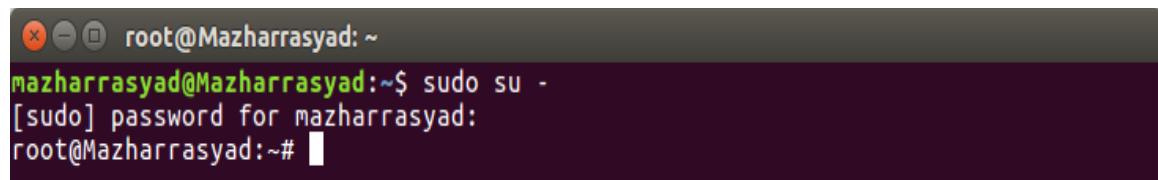
## C. Langkah – langkah Praktikum

### 1. Administrasi sistem

- Mengubah user menjadi root

```
$ sudo su -
```

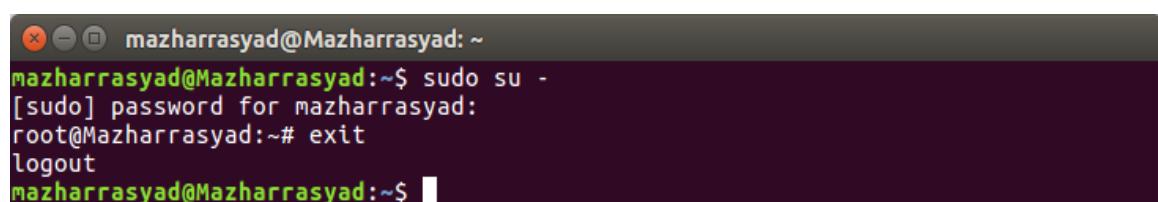
Perintah untuk menjadi mode superuser (root)



```
mazharrasyad@mazharrasyad:~$ sudo su -
[sudo] password for mazharrasyad:
```

```
$ exit
```

Keluar dari mode superuser

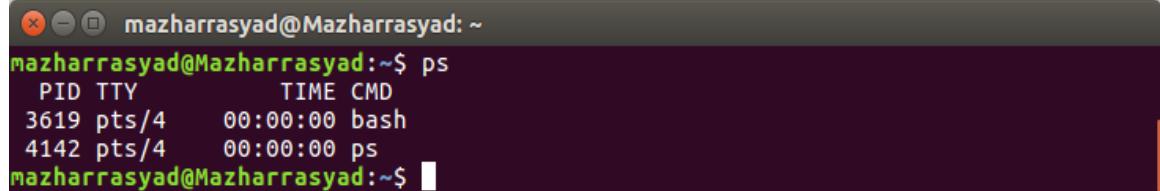


```
mazharrasyad@mazharrasyad:~$ sudo su -
[sudo] password for mazharrasyad:
root@mazharrasyad:~# exit
logout
mazharrasyad@mazharrasyad:~$
```

- Manajemen proses

\$ ps

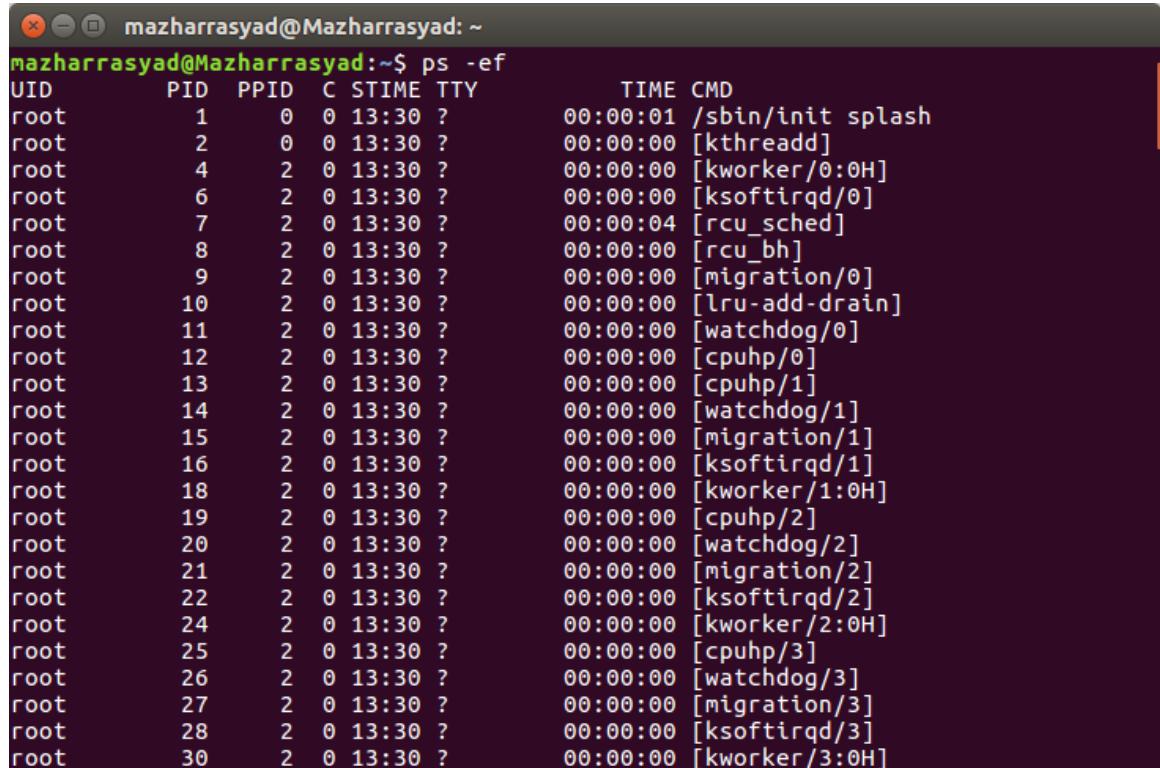
ps (Proses Status) digunakan untuk menampilkan proses - proses yang sedang berjalan.



```
mazharryad@mazharryad:~$ ps
  PID TTY      TIME CMD
 3619 pts/4    00:00:00 bash
 4142 pts/4    00:00:00 ps
mazharryad@mazharryad:~$
```

\$ ps -ef

Menampilkan proses yang sedang berjalan dengan option -e untuk menampilkan seluruh proses dan option -f untuk menampilkan format penuh.



```
mazharryad@mazharryad:~$ ps -ef
UID      PID  PPID  C STIME TTY      TIME CMD
root      1      0  0 13:30 ?        00:00:01 /sbin/init splash
root      2      0  0 13:30 ?        00:00:00 [kthreadd]
root      4      2  0 13:30 ?        00:00:00 [kworker/0:0H]
root      6      2  0 13:30 ?        00:00:00 [ksoftirqd/0]
root      7      2  0 13:30 ?        00:00:04 [rcu_sched]
root      8      2  0 13:30 ?        00:00:00 [rcu_bh]
root      9      2  0 13:30 ?        00:00:00 [migration/0]
root     10      2  0 13:30 ?        00:00:00 [lru-add-drain]
root     11      2  0 13:30 ?        00:00:00 [watchdog/0]
root     12      2  0 13:30 ?        00:00:00 [cpuhp/0]
root     13      2  0 13:30 ?        00:00:00 [cpuhp/1]
root     14      2  0 13:30 ?        00:00:00 [watchdog/1]
root     15      2  0 13:30 ?        00:00:00 [migration/1]
root     16      2  0 13:30 ?        00:00:00 [ksoftirqd/1]
root     18      2  0 13:30 ?        00:00:00 [kworker/1:0H]
root     19      2  0 13:30 ?        00:00:00 [cpuhp/2]
root     20      2  0 13:30 ?        00:00:00 [watchdog/2]
root     21      2  0 13:30 ?        00:00:00 [migration/2]
root     22      2  0 13:30 ?        00:00:00 [ksoftirqd/2]
root     24      2  0 13:30 ?        00:00:00 [kworker/2:0H]
root     25      2  0 13:30 ?        00:00:00 [cpuhp/3]
root     26      2  0 13:30 ?        00:00:00 [watchdog/3]
root     27      2  0 13:30 ?        00:00:00 [migration/3]
root     28      2  0 13:30 ?        00:00:00 [ksoftirqd/3]
root     30      2  0 13:30 ?        00:00:00 [kworker/3:0H]
```

```

mazharr+ 2615 1261 2 13:36 ?          00:00:46 evince /media/mazharryad/SD CA
mazharr+ 2622 1261 0 13:36 ?          00:00:00 /usr/lib/evince/evinced
root    2825 2 0 13:43 ?          00:00:00 [kworker/0:1]
root    2894 2 0 13:46 ?          00:00:01 [kworker/u16:1]
root    2950 2 0 13:53 ?          00:00:00 [kworker/u16:2]
root    2966 2 0 13:54 ?          00:00:00 [kworker/1:1]
root    2985 2 0 13:55 ?          00:00:00 [kworker/3:1]
root    3006 2 0 13:57 ?          00:00:00 [kworker/0:0]
root    3022 2 0 13:58 ?          00:00:00 [kworker/2:0]
root    3053 2 0 13:59 ?          00:00:00 [kworker/1:0]
root    3096 2 0 14:00 ?          00:00:00 [kworker/3:0]
root    3190 2 0 14:06 ?          00:00:00 [kworker/3:2]
mazharr+ 3258 1261 0 14:06 ?          00:00:00 /usr/lib/x86_64-linux-gnu/gconf/
root    3436 2 0 14:07 ?          00:00:00 [kworker/0:2]
root    3437 2 0 14:07 ?          00:00:00 [kworker/2:1]
root    3515 2 0 14:07 ?          00:00:00 [kworker/1:2]
root    3585 2 0 14:07 ?          00:00:00 [kworker/u16:0]
mazharr+ 3612 1261 0 14:07 ?          00:00:00 /usr/lib/gnome-terminal/gnome-te
mazharr+ 3619 3612 0 14:07 pts/4      00:00:00 bash
mazharr+ 3687 1261 21 14:09 ?          00:00:21 /usr/lib/firefox/firefox
mazharr+ 3740 3687 11 14:09 ?          00:00:11 /usr/lib/firefox/firefox -conten
mazharr+ 3798 3687 1 14:09 ?          00:00:01 /usr/lib/firefox/firefox -conten
mazharr+ 3894 3687 5 14:09 ?          00:00:03 /usr/lib/firefox/firefox -conten
root    3988 893 0 14:10 ?          00:00:00 /sbin/dhclient -d -q -sf /usr/li
root    4156 1 0 14:10 ?          00:00:00 /lib/systemd/systemd-hostnamed
mazharr+ 4159 3619 0 14:10 pts/4      00:00:00 ps -ef
mazharryad@mazharryad:~$ █

```

\$ ps aux

Menampilkan proses yang sedang berjalan dengan option a untuk menampilkan seluruh proses bila ada option x dan sebaliknya option x digunakan untuk menampilkan seluruh proses bila ada option a, option u untuk menampilkan proses berorientasi user.

```

mazharryad@mazharryad:~$ ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root      1  0.0  0.1 185124  5820 ?        Ss   13:30  0:01 /sbin/init spla
root      2  0.0  0.0     0     0 ?        S    13:30  0:00 [kthreadd]
root      4  0.0  0.0     0     0 ?        S<  13:30  0:00 [kworker/0:0H]
root      6  0.0  0.0     0     0 ?        S    13:30  0:00 [ksoftirqd/0]
root      7  0.2  0.0     0     0 ?        S    13:30  0:05 [rcu_sched]
root      8  0.0  0.0     0     0 ?        S    13:30  0:00 [rcu_bh]
root      9  0.0  0.0     0     0 ?        S    13:30  0:00 [migration/0]
root     10  0.0  0.0     0     0 ?        S<  13:30  0:00 [lru-add-drain]
root     11  0.0  0.0     0     0 ?        S    13:30  0:00 [watchdog/0]
root     12  0.0  0.0     0     0 ?        S    13:30  0:00 [cpuhp/0]
root     13  0.0  0.0     0     0 ?        S    13:30  0:00 [cpuhp/1]
root     14  0.0  0.0     0     0 ?        S    13:30  0:00 [watchdog/1]
root     15  0.0  0.0     0     0 ?        S    13:30  0:00 [migration/1]
root     16  0.0  0.0     0     0 ?        S    13:30  0:00 [ksoftirqd/1]
root     18  0.0  0.0     0     0 ?        S<  13:30  0:00 [kworker/1:0H]
root     19  0.0  0.0     0     0 ?        S    13:30  0:00 [cpuhp/2]
root     20  0.0  0.0     0     0 ?        S    13:30  0:00 [watchdog/2]
root     21  0.0  0.0     0     0 ?        S    13:30  0:00 [migration/2]
root     22  0.0  0.0     0     0 ?        S    13:30  0:00 [ksoftirqd/2]
root     24  0.0  0.0     0     0 ?        S<  13:30  0:00 [kworker/2:0H]
root     25  0.0  0.0     0     0 ?        S    13:30  0:00 [cpuhp/3]
root     26  0.0  0.0     0     0 ?        S    13:30  0:00 [watchdog/3]
root     27  0.0  0.0     0     0 ?        S    13:30  0:00 [migration/3]
root     28  0.0  0.0     0     0 ?        S    13:30  0:00 [ksoftirqd/3]
root     30  0.0  0.0     0     0 ?        S<  13:30  0:00 [kworker/3:0H]

```

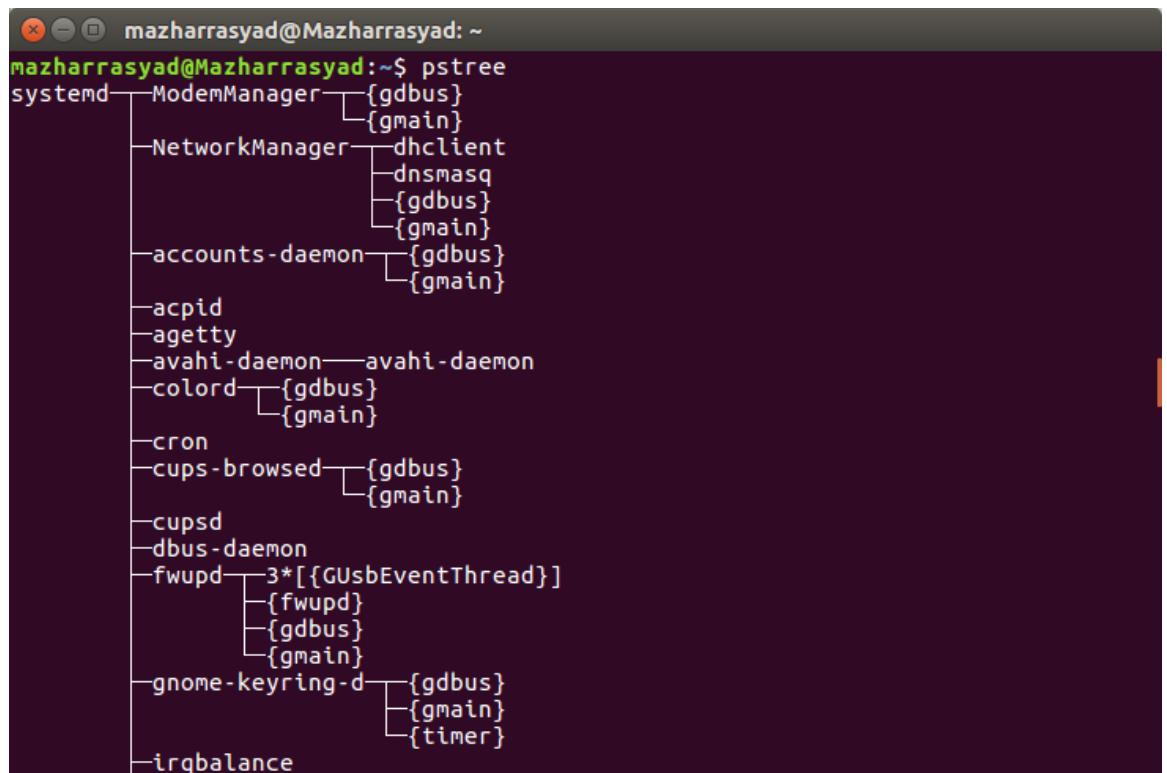
```

mazharr+ 2622 0.0 0.1 178496 4012 ? Sl 13:36 0:00 /usr/lib/evince
root 2825 0.0 0.0 0 0 ? S 13:43 0:00 [kworker/0:1]
root 2894 0.1 0.0 0 0 ? S 13:46 0:02 [kworker/u16:1]
root 3053 0.0 0.0 0 0 ? S 13:59 0:00 [kworker/1:0]
root 3190 0.0 0.0 0 0 ? S 14:06 0:00 [kworker/3:2]
mazharr+ 3258 0.0 0.1 61176 5352 ? S 14:06 0:00 /usr/lib/x86_64
root 3437 0.0 0.0 0 0 ? S 14:07 0:00 [kworker/2:1]
mazharr+ 3612 0.2 0.9 665340 39660 ? Rl 14:07 0:02 /usr/lib/gnome-
mazharr+ 3619 0.0 0.1 22500 5040 pts/4 Ss 14:07 0:00 bash
mazharr+ 3687 7.5 8.7 2210704 346828 ? Sl 14:09 0:52 /usr/lib/firefo
mazharr+ 3740 10.2 6.8 2152292 271984 ? Sl 14:09 1:10 /usr/lib/firefo
root 3988 0.0 0.0 16120 3704 ? S 14:10 0:00 /sbin/dhclient
root 4189 0.0 0.0 0 0 ? S 14:11 0:00 [kworker/3:0]
root 4288 0.0 0.0 0 0 ? S 14:12 0:00 [kworker/2:0]
mazharr+ 4309 0.0 0.4 644820 16140 ? Sl 14:12 0:00 /usr/lib/x86_64
mazharr+ 4320 0.0 0.6 582348 24416 ? Sl 14:12 0:00 /usr/bin/unity-
mazharr+ 4322 0.0 0.3 581608 15624 ? Sl 14:12 0:00 /usr/lib/x86_64
mazharr+ 4353 1.2 1.1 813412 45392 ? Sl 14:12 0:05 gedit
root 4363 0.0 0.0 0 0 ? S 14:13 0:00 [kworker/1:1]
root 4364 0.0 0.0 0 0 ? S 14:13 0:00 [kworker/0:2]
root 4476 0.0 0.0 0 0 ? S 14:16 0:00 [kworker/3:1]
root 4538 0.1 0.0 0 0 ? S 14:19 0:00 [kworker/u16:0]
root 4559 0.0 0.0 0 0 ? S 14:20 0:00 [kworker/1:2]
root 4560 0.0 0.0 0 0 ? S 14:20 0:00 [kworker/0:0]
root 4566 0.0 0.0 15676 1140 ? Ss 14:20 0:00 /lib/systemd/sy
mazharr+ 4582 0.0 0.0 37368 3380 pts/4 R+ 14:20 0:00 ps aux
mazharrasyad@mazharrasyad:~$ █

```

\$ pstree

pstree (Proses Status Tree) menampilkan struktur proses seperti pohon yang berakar.



```

    └─{gdbus}
      └─{gmain}
polkitd └─{gdbus}
          └─{gmain}
rsyslogd └─{in:imklog}
          └─{in:imuxsock}
          └─{rs:main Q:Reg}
rtkit-daemon ── 2*[{rtkit-daemon}]
snapd ── 8*[{snapd}]
sshd
systemd ── (sd-pam)
systemd-journal
systemd-logind
systemd-timesyn ── {sd-resolve}
systemd-udevd
teamviewerd ── 14*[{teamviewerd}]
thermald ── {thermald}
udisksd └─{cleanup}
          └─{gdbus}
          └─{gmain}
          └─{probing-thread}
upowerd └─{gdbus}
          └─{gmain}
whoopsie └─{gdbus}
          └─{gmain}
wpa_supplicant
mazharrasyad@mazharrasyad:~$ █

```

\$ top

Perintah untuk menampilkan proses secara waktu yang sedang berlangsung (real time).

```

mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ top

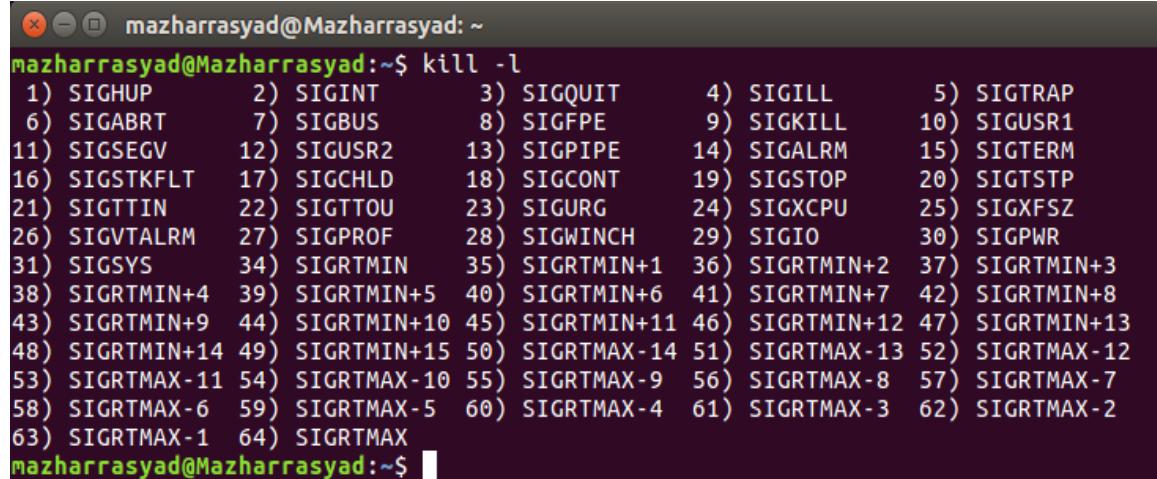
top - 14:23:45 up 52 min, 1 user, load average: 0,62, 0,57, 0,49
Tasks: 219 total, 1 running, 218 sleeping, 0 stopped, 0 zombie
%Cpu(s): 3,5 us, 0,8 sy, 0,0 ni, 95,7 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3986300 total, 1175548 free, 1247200 used, 1563552 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 2136840 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S %CPU %MEM     TIME+ COMMAND
  983 root      20   0  468940 118364 85708 S  4,3  3,0  2:18.01 Xorg
 1539 mazharr+  20   0 1586228 121100 65140 S  3,3  3,0  2:38.33 compiz
 3612 mazharr+  20   0  665340  39660 29440 S  3,0  1,0  0:04.20 gnome-terminal
 1667 mazharr+  20   0 1443616  66836 42596 S  2,3  1,7  0:09.67 nautilus
 1493 mazharr+  20   0  657400  51624 30256 S  1,3  1,3  0:07.82 hud-service
 1497 mazharr+  20   0  600712  56180 31068 S  1,0  1,4  0:09.82 unity-panel+
 190 root      20   0      0      0      0 S  0,3  0,0  0:02.91 kworker/u1+
 1348 mazharr+  20   0  44116   4580  2900 S  0,3  0,1  0:04.66 dbus-daemon
 1409 mazharr+  20   0  347328   9032  5456 S  0,3  0,2  0:17.85 ibus-daemon
 1515 mazharr+  20   0  206868   6564  5932 S  0,3  0,2  0:01.01 at-spi2-re+
 1876 mazharr+  20   0  410368   7692  6392 S  0,3  0,2  0:00.30 zeitgeist-+
 4737 mazharr+  20   0  41804   3712  3072 R  0,3  0,1  0:00.05 top
    1 root      20   0  185124   5820  4044 S  0,0  0,1  0:01.68 systemd
    2 root      20   0      0      0      0 S  0,0  0,0  0:00.00 kthreadd
    4 root      0 -20      0      0      0 S  0,0  0,0  0:00.00 kworker/0:0+
    6 root      20   0      0      0      0 S  0,0  0,0  0:00.02 ksoftirqd/0
    7 root      20   0      0      0      0 S  0,0  0,0  0:06.36 rcu_sched
    8 root      20   0      0      0      0 S  0,0  0,0  0:00.00 rcu_bh

```

```
$ kill -l
```

Perintah untuk mengirimkan sinyal ke suatu proses yang digunakan untuk menghentikan suatu proses dengan option -l untuk menampilkan daftar sinyal.

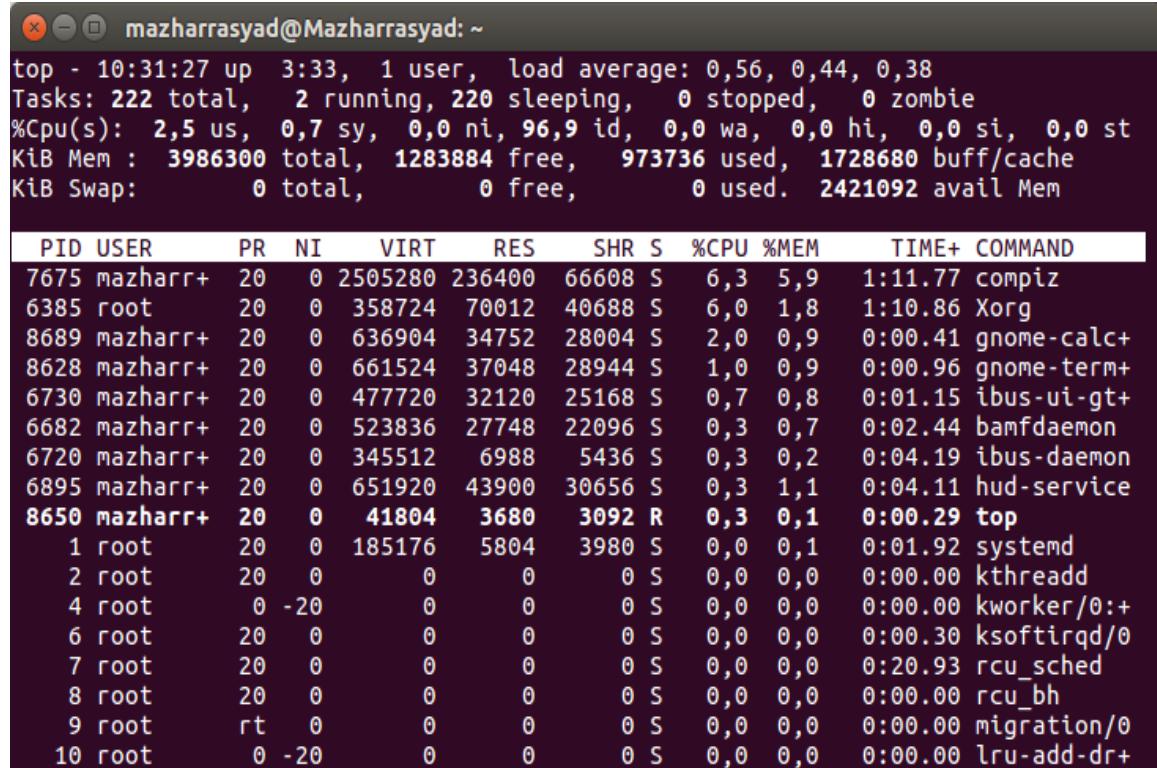


```
mazharrasyad@mazharrasyad:~$ kill -l
 1) SIGHUP      2) SIGINT      3) SIGQUIT      4) SIGILL      5) SIGTRAP
 6) SIGABRT     7) SIGBUS      8) SIGFPE       9) SIGKILL     10) SIGUSR1
11) SIGSEGV     12) SIGUSR2     13) SIGPIPE     14) SIGALRM     15) SIGTERM
16) SIGSTKFLT   17) SIGCHLD     18) SIGCONT     19) SIGSTOP     20) SIGTSTP
21) SIGTTIN     22) SIGTTOU     23) SIGURG      24) SIGXCPU     25) SIGXFSZ
26) SIGVTALRM   27) SIGPROF     28) SIGWINCH    29) SIGIO       30) SIGPWR
31) SIGSYS      34) SIGRTMIN    35) SIGRTMIN+1  36) SIGRTMIN+2  37) SIGRTMIN+3
38) SIGRTMIN+4  39) SIGRTMIN+5  40) SIGRTMIN+6  41) SIGRTMIN+7  42) SIGRTMIN+8
43) SIGRTMIN+9  44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12
53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9  56) SIGRTMAX-8  57) SIGRTMAX-7
58) SIGRTMAX-6  59) SIGRTMAX-5  60) SIGRTMAX-4  61) SIGRTMAX-3  62) SIGRTMAX-2
63) SIGRTMAX-1  64) SIGRTMAX
mazharrasyad@mazharrasyad:~$
```

```
$ kill 4946
```

Mengirimkan sinyal proses untuk mengentikan proses dengan nomor proses (PID = Proses ID) 4946.

Untuk melihat nomor proses (PID) dapat menggunakan perintah PID pada kolom pertama.



```
mazharrasyad@mazharrasyad:~$ top - 10:31:27 up 3:33, 1 user, load average: 0,56, 0,44, 0,38
Tasks: 222 total, 2 running, 220 sleeping, 0 stopped, 0 zombie
%Cpu(s): 2,5 us, 0,7 sy, 0,0 ni, 96,9 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3986300 total, 1283884 free, 973736 used, 1728680 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 2421092 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
7675 mazharr+ 20 0 2505280 236400 66608 S 6,3 5,9 1:11.77 compiz
6385 root 20 0 358724 70012 40688 S 6,0 1,8 1:10.86 Xorg
8689 mazharr+ 20 0 636904 34752 28004 S 2,0 0,9 0:00.41 gnome-calc+
8628 mazharr+ 20 0 661524 37048 28944 S 1,0 0,9 0:00.96 gnome-term+
6730 mazharr+ 20 0 477720 32120 25168 S 0,7 0,8 0:01.15 ibus-ui-gtt+
6682 mazharr+ 20 0 523836 27748 22096 S 0,3 0,7 0:02.44 bamfdaemon
6720 mazharr+ 20 0 345512 6988 5436 S 0,3 0,2 0:04.19 ibus-daemon
6895 mazharr+ 20 0 651920 43900 30656 S 0,3 1,1 0:04.11 hud-service
8650 mazharr+ 20 0 41804 3680 3092 R 0,3 0,1 0:00.29 top
 1 root 20 0 185176 5804 3980 S 0,0 0,1 0:01.92 systemd
 2 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kthreadd
 4 root 0 -20 0 0 0 S 0,0 0,0 0:00.00 kworker/0:+
 6 root 20 0 0 0 0 S 0,0 0,0 0:00.30 ksoftirqd/0
 7 root 20 0 0 0 0 S 0,0 0,0 0:20.93 rcu_sched
 8 root 20 0 0 0 0 S 0,0 0,0 0:00.00 rcu_bh
 9 root rt 0 0 0 0 S 0,0 0,0 0:00.00 migration/0
10 root 0 -20 0 0 0 S 0,0 0,0 0:00.00 lru-add-dr+
```

Pada saat kill 4946 maka proses tersebut tidak dapat dilakukan karena PIDnya tidak ada.

```
mazharrasyad@mazharrasyad:~$ kill 4946
bash: kill: (4946) - No such process
mazharrasyad@mazharrasyad:~$
```

Contoh lain dapat mencari proses yang memiliki PIDnya.

```
mazharrasyad@mazharrasyad:~$ kill 8689
mazharrasyad@mazharrasyad:~$
```

\$ kill -9 4695

Mengirimkan sinyal proses untuk mengentikan proses dengan sinyal 9 dan pid 4695.

```
mazharrasyad@mazharrasyad:~$ top - 11:12:23 up 4:13, 1 user, load average: 0,30, 0,13, 0,11
Tasks: 219 total, 1 running, 218 sleeping, 0 stopped, 0 zombie
%Cpu(s): 4,7 us, 4,4 sy, 0,0 ni, 90,7 id, 0,2 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3986300 total, 947448 free, 1311800 used, 1727052 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 2103884 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
8941 root 20 0 355748 77536 47692 S 6,6 1,9 0:24.73 Xorg
9589 mazharr+ 20 0 1513996 224432 65264 S 3,7 5,6 0:35.07 compiz
9956 mazharr+ 20 0 661748 37504 28464 S 3,0 0,9 0:05.51 gnome-terminal+
10231 mazharr+ 20 0 637492 35972 28980 S 1,0 0,9 0:00.49 gnome-calc+
9455 mazharr+ 20 0 647100 43848 26224 S 0,7 1,1 0:02.49 unity-panel+
10030 mazharr+ 20 0 41804 3736 3140 R 0,7 0,1 0:07.08 top
10298 mazharr+ 20 0 1926592 197520 99776 S 0,7 5,0 0:13.80 Web Content
7 root 20 0 0 0 0 S 0,3 0,0 0:25.40 rcu_sched
9261 mazharr+ 20 0 345368 7096 5524 S 0,3 0,2 0:02.43 ibus-daemon
9277 mazharr+ 20 0 477812 29872 24944 S 0,3 0,7 0:00.85 ibus-ui-gt+
9499 mazharr+ 20 0 571276 11088 6476 S 0,3 0,3 0:00.19 indicator-
9927 mazharr+ 20 0 1795268 185836 103308 S 0,3 4,7 0:14.05 soffice.bin
10118 root 20 0 0 0 0 S 0,3 0,0 0:00.33 kworker/2:2
10245 mazharr+ 20 0 2393204 317756 130816 S 0,3 8,0 0:20.19 firefox
10501 root 20 0 0 0 0 S 0,3 0,0 0:00.34 kworker/1:0
10506 root 20 0 0 0 0 S 0,3 0,0 0:00.59 kworker/u1+
1 root 20 0 185176 5804 3980 S 0,0 0,1 0:02.24 systemd
```

Pada saat kill -9 4695 maka proses tersebut tidak dapat dilakukan karena PIDnya tidak ada.

```
mazharrasyad@mazharrasyad:~$ kill -9 4695
bash: kill: (4695) - No such process
mazharrasyad@mazharrasyad:~$
```

Contoh lain dapat mencari proses yang memiliki PIDnya.

```
mazharryad@mazharryad:~$ kill -9 10231
mazharryad@mazharryad:~$
```

- Monitoring sistem

```
$ df
```

Perintah untuk menampilkan penggunaan filesystem.

```
mazharryad@mazharryad:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            1970896      0   1970896   0% /dev
tmpfs           398632   6308   392324   2% /run
/dev/sda6       98298500 15616072 77666108 17% /
tmpfs           1993156    252   1992904   1% /dev/shm
tmpfs            5120      4    5116   1% /run/lock
tmpfs           1993156      0   1993156   0% /sys/fs/cgroup
/dev/mmcblk0p1   7699456  1622144  6077312 22% /media/mazharryad/SD CARD
tmpfs           398632     72   398560   1% /run/user/1000
mazharryad@mazharryad:~$
```

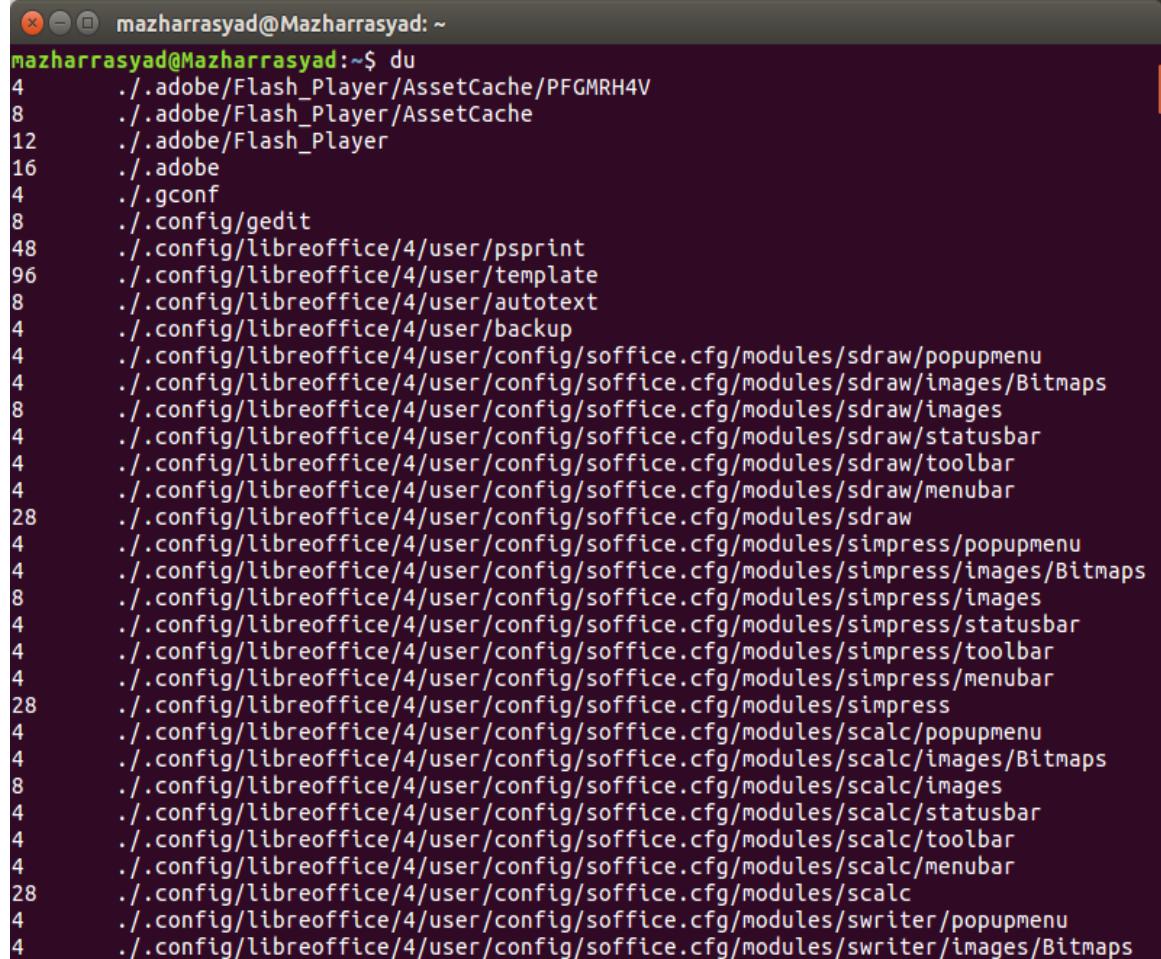
```
$ df -h
```

Menampilkan penggunaan filesystem dengan option -h untuk menampilkan ukuran dalam format yang familiar dengan manusia.

```
mazharryad@mazharryad:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            1,9G  0    1,9G  0% /dev
tmpfs           390M  6,2M 384M  2% /run
/dev/sda6       94G   15G  75G  17% /
tmpfs           2,0G  696K 2,0G  1% /dev/shm
tmpfs            5,0M  4,0K 5,0M  1% /run/lock
tmpfs           2,0G  0    2,0G  0% /sys/fs/cgroup
/dev/mmcblk0p1   7,4G  1,6G  5,8G 22% /media/mazharryad/SD CARD
tmpfs           390M  72K  390M  1% /run/user/1000
mazharryad@mazharryad:~$
```

```
$ du
```

Perintah untuk menampilkan penggunaan file.



The screenshot shows a terminal window titled "mazharryad@mazharryad: ~". The command "du" is run, displaying a list of files and their sizes. The output is as follows:

```
mazharryad@mazharryad:~$ du
4      ./adobe/Flash_Player/AssetCache/PFGMRH4V
8      ./adobe/Flash_Player/AssetCache
12     ./adobe/Flash_Player
16     ./adobe
4      ./gconf
8      ./config/gedit
48     ./config/libreoffice/4/user/psprint
96     ./config/libreoffice/4/user/template
8      ./config/libreoffice/4/user/autotext
4      ./config/libreoffice/4/user/backup
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/sdraw/popupmenu
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/sdraw/images/Bitmaps
8      ./config/libreoffice/4/user/config/soffice.cfg/modules/sdraw/images
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/sdraw/statusbar
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/sdraw/toolbar
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/sdraw/menubar
28     ./config/libreoffice/4/user/config/soffice.cfg/modules/sdraw
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/simpress/popupmenu
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/simpress/images/Bitmaps
8      ./config/libreoffice/4/user/config/soffice.cfg/modules/simpress/images
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/simpress/statusbar
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/simpress/toolbar
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/simpress/menubar
28     ./config/libreoffice/4/user/config/soffice.cfg/modules/simpress
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/popupmenu
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/images/Bitmaps
8      ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/images
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/statusbar
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/toolbar
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/menubar
28     ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/popupmenu
4      ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/images/Bitmaps
```

```
4      ./.wine/drive_c/users/mazharrysyad/PrintHood
68     ./.wine/drive_c/users/mazharrysyad
4      ./.wine/drive_c/users/Public/Documents
4      ./.wine/drive_c/users/Public/Videos
4      ./.wine/drive_c/users/Public/Start Menu/Programs/Administrative Tools
4      ./.wine/drive_c/users/Public/Start Menu/Programs/StartUp
12     ./.wine/drive_c/users/Public/Start Menu/Programs
16     ./.wine/drive_c/users/Public/Start Menu
4      ./.wine/drive_c/users/Public/Favorites
4      ./.wine/drive_c/users/Public/Application Data/Microsoft
8       ./.wine/drive_c/users/Public/Application Data
4      ./.wine/drive_c/users/Public/Templates
4      ./.wine/drive_c/users/Public/Desktop
4      ./.wine/drive_c/users/Public/Music
4      ./.wine/drive_c/users/Public/Pictures
56     ./.wine/drive_c/users/Public
128    ./.wine/drive_c/users
92     ./.wine/drive_c/Program Files (x86)/Internet Explorer
4      ./.wine/drive_c/Program Files (x86)/Common Files
100    ./.wine/drive_c/Program Files (x86)
344672  ./.wine/drive_c
4      ./.wine/dosdevices
346444  ./.wine
792    ./Pictures/Modul XIII
4      ./Pictures/Modul XI
52     ./Pictures/alif
4      ./Pictures/Modul XII
24     ./Pictures/Wallpapers
1800   ./Pictures
4      ./.{data4/data6}
4      ./.{data4/data5}
12     ./.{data4
896628 .
mazharrysyad@mazharrysyad:~$
```

```
$ du -sh /etc
```

Menampilkan penggunaan file dengan option -s untuk menampilkan total untuk setiap argumen dan option -h untuk menampilkan ukuran dalam format yang familiar dengan manusia pada directory /etc.

```
mazharrysyad@mazharrysyad:~$ du -sh /etc
du: cannot read directory '/etc/cups/ssl': Permission denied
du: cannot read directory '/etc/chatscripts': Permission denied
du: cannot read directory '/etc/ppp/peers': Permission denied
du: cannot read directory '/etc/polkit-1/localauthority': Permission denied
du: cannot read directory '/etc/ssl/private': Permission denied
15M    /etc
mazharrysyad@mazharrysyad:~$ sudo du -sh /etc
15M    /etc
mazharrysyad@mazharrysyad:~$
```

```
$ free
```

Perintah untuk menampilkan jumlah memori yang digunakan oleh sistem.

```
mazharrysyad@mazharrysyad:~$ free
              total        used         free      shared  buff/cache   available
Mem:       3986312      823416     1001952      192528      2160944     2644528
Swap:          0           0           0
mazharrysyad@mazharrysyad:~$
```

```
$ free -h
```

Menampilkan jumlah memori yang digunakan oleh sistem dengan option -h untuk menampilkan jumlah memori dalam ukuran tiga digit unit dengan ketentuan.

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ free -h
      total        used        free      shared  buff/cache   available
Mem:       3,8G       804M      978M      187M       2,1G       2,5G
Swap:          0B          0B          0B
mazharrasyad@mazharrasyad:~$
```

## 2. Administrasi user di terminal

- Menambah user unyil dengan konfigurasi default

```
$ sudo useradd unyil
```

Perintah menambahkan user dengan nama unyil.

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo useradd unyil
[sudo] password for mazharrasyad:
mazharrasyad@mazharrasyad:~$
```

```
$ grep unyil /etc/passwd
```

Perintah menampilkan user unyil pada directory /etc/passwd untuk memastikan user unyil telah terbuat.

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ grep unyil /etc/passwd
unyil:x:1001:1002:::/home/unyil:
mazharrasyad@mazharrasyad:~$
```

```
$ ls -l /home
```

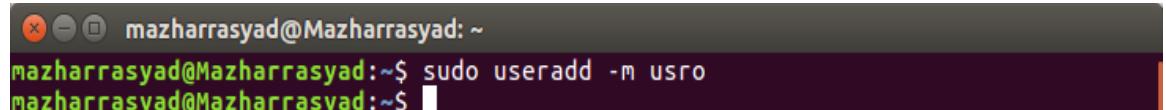
Menampilkan detail directory /home untuk memeriksa apakah directory user unyil terbuat atau tidak.

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ ls -l /home
total 4
drwxr-xr-x 25 mazharrasyad mazharrasyad 4096 Des 23 19:09 mazharrasyad
mazharrasyad@mazharrasyad:~$
```

- Menambah user usro dengan membuatkan home directory

```
$ sudo useradd -m usro
```

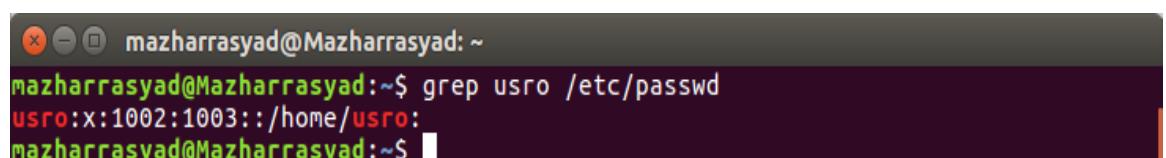
Menambahkan user baru nama usro dengan option -m untuk membuat directory.



```
mazharrasyad@mazharrasyad:~$ sudo useradd -m usro
mazharrasyad@mazharrasyad:~$
```

```
$ grep usro /etc/passwd
```

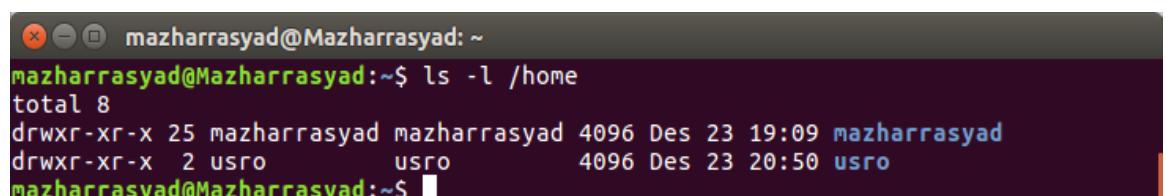
Perintah menampilkan user usro pada directory /etc/passwd untuk memastikan user usro telah terbuat.



```
mazharrasyad@mazharrasyad:~$ grep usro /etc/passwd
usro:x:1002:1003::/home/usro:
mazharrasyad@mazharrasyad:~$
```

```
$ ls -l /home
```

Menampilkan detail directory /home untuk memeriksa apakah directory user usro terbuat atau tidak.

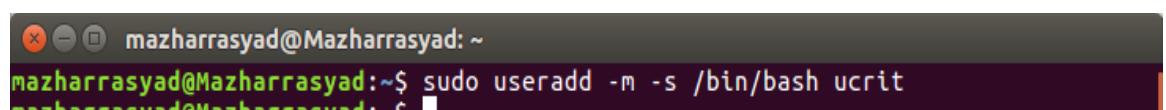


```
mazharrasyad@mazharrasyad:~$ ls -l /home
total 8
drwxr-xr-x 25 mazharrasyad mazharrasyad 4096 Des 23 19:09 mazharrasyad
drwxr-xr-x  2 usro      usro        4096 Des 23 20:50 usro
mazharrasyad@mazharrasyad:~$
```

- Menambah user ucrit dengan membuatkan home directory dan shell yang digunakan /bin/bash

```
$ sudo useradd -m -s /bin/bash ucrit
```

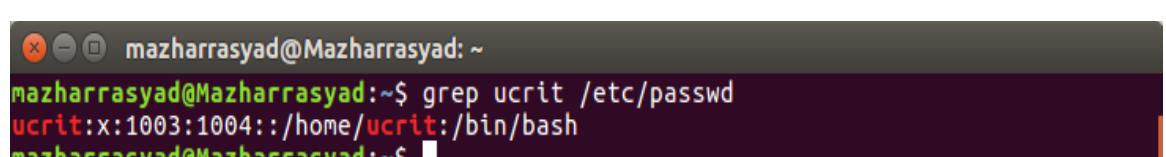
Menambahkan user baru nama ucrit dengan option -m untuk membuat directory dan option -s untuk nama login shell di /bin/bash.



```
mazharrasyad@mazharrasyad:~$ sudo useradd -m -s /bin/bash ucrit
mazharrasyad@mazharrasyad:~$
```

```
$ grep ucrit /etc/passwd
```

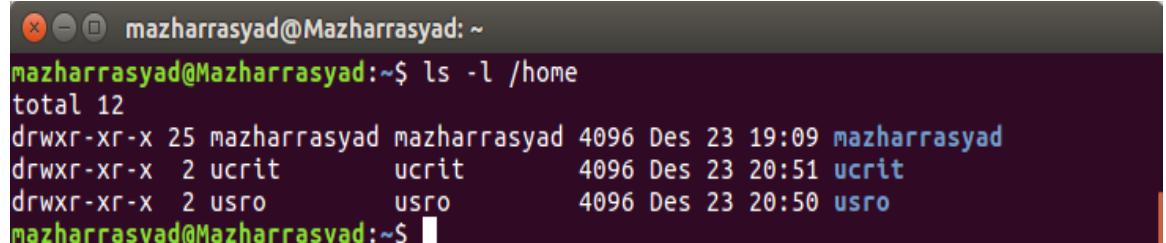
Perintah menampilkan user ucrit pada directory /etc/passwd untuk memastikan user ucrit telah terbuat.



```
mazharrasyad@mazharrasyad:~$ grep ucrit /etc/passwd
ucrit:x:1003:1004::/home/ucrit:/bin/bash
mazharrasyad@mazharrasyad:~$
```

```
$ ls -l /home
```

Menampilkan detail directory /home untuk memeriksa apakah directory user ucrit terbuat atau tidak.

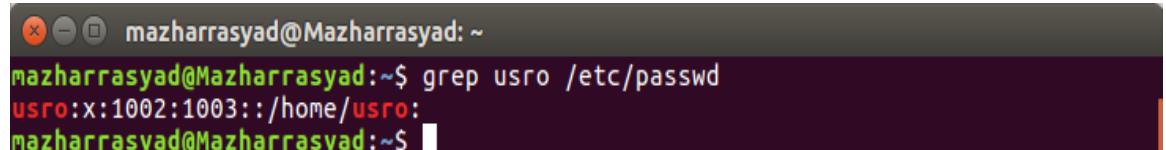


```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ ls -l /home
total 12
drwxr-xr-x 25 mazharrasyad mazharrasyad 4096 Des 23 19:09 mazharrasyad
drwxr-xr-x  2 ucrit      ucrit      4096 Des 23 20:51 ucrit
drwxr-xr-x  2 usro      usro      4096 Des 23 20:50 usro
mazharrasyad@mazharrasyad:~$
```

- Mengubah shell user usro dari /bin/sh menjadi /bin/bash

```
$ grep usro /etc/passwd
```

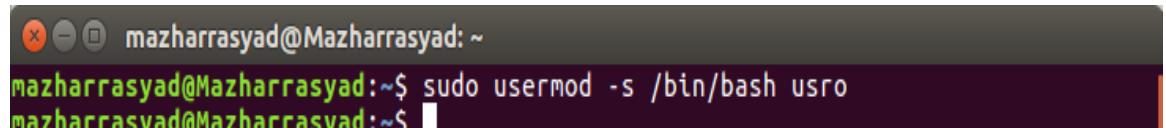
Perintah menampilkan user usro pada directory /etc/passwd.



```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ grep usro /etc/passwd
usro:x:1002:1003::/home/usro:
mazharrasyad@mazharrasyad:~$
```

```
$ sudo usermod -s /bin/bash usro
```

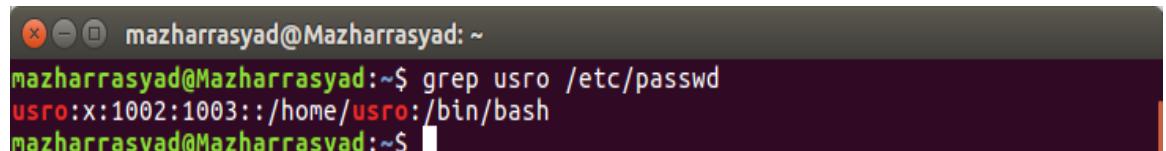
Perintah mengubah nama login shell dengan option -s menjadi /bin/bash untuk user usro.



```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo usermod -s /bin/bash usro
mazharrasyad@mazharrasyad:~$
```

```
$ grep usro /etc/passwd
```

Perintah menampilkan user usro pada directory /etc/passwd..

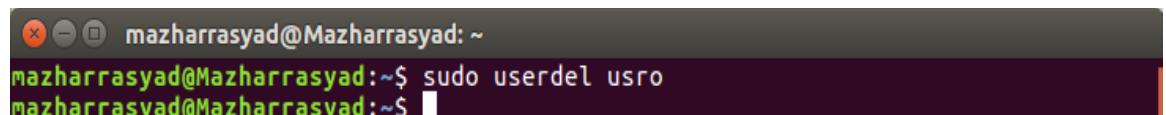


```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ grep usro /etc/passwd
usro:x:1002:1003::/home/usro:/bin/bash
mazharrasyad@mazharrasyad:~$
```

- Menghapus user usro tanpa menghapus home directory-nya

```
$ sudo userdel usro
```

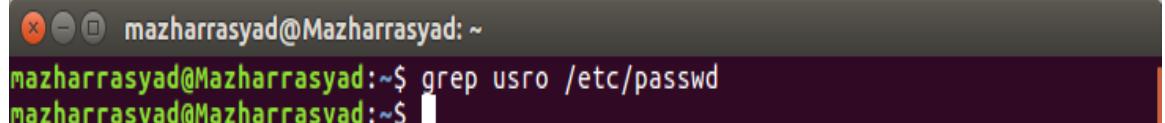
Perintah untuk menghapus user dengan nama usro.



```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo userdel usro
mazharrasyad@mazharrasyad:~$
```

```
$ grep usro /etc/passwd
```

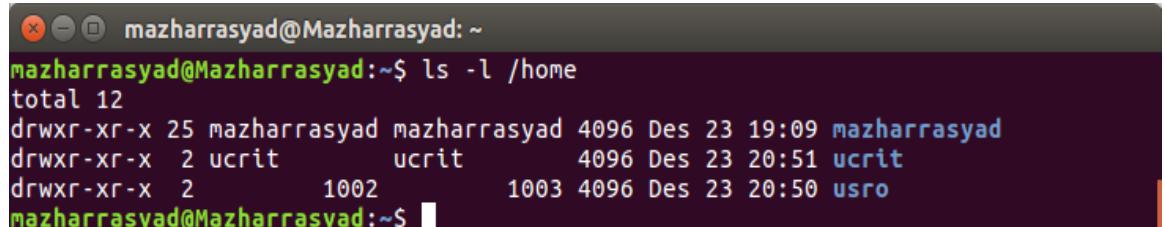
Perintah menampilkan user usro pada directory /etc/passwd dan pada gambar dibawah tidak tampil karena user usro telah terhapus.



```
mazharrasyad@mazharrasyad:~$ grep usro /etc/passwd
mazharrasyad@mazharrasyad:~$
```

```
$ ls -l /home
```

Menampilkan detail di directory /home, terlihat bahwa directory usro masih ada.



```
mazharrasyad@mazharrasyad:~$ ls -l /home
total 12
drwxr-xr-x 25 mazharrasyad mazharrasyad 4096 Des 23 19:09 mazharrasyad
drwxr-xr-x 2 ucrit ucrit 4096 Des 23 20:51 ucrit
drwxr-xr-x 2 1002 1003 4096 Des 23 20:50 usro
mazharrasyad@mazharrasyad:~$
```

- Menghapus user ucrit berikut home directory-nya

```
$ sudo userdel -r ucrit
```

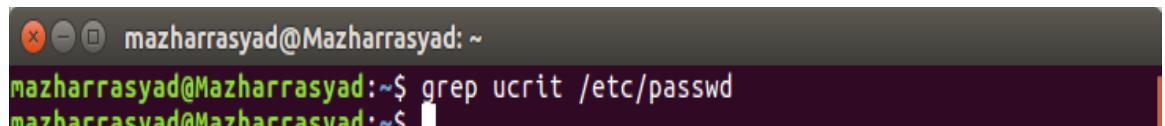
Menghapus user ucrit beserta directorynya dengan option -r



```
mazharrasyad@mazharrasyad:~$ sudo userdel -r ucrit
userdel: ucrit mail spool (/var/mail/ucrit) not found
mazharrasyad@mazharrasyad:~$
```

```
$ grep ucrit /etc/passwd
```

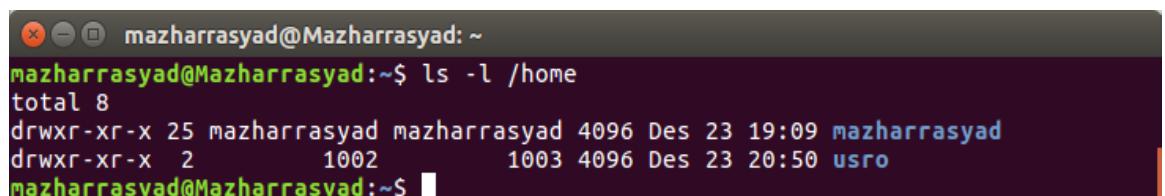
Perintah menampilkan user ucrit pada directory /etc/passwd dan pada gambar dibawah tidak tampil karena user ucrit telah terhapus.



```
mazharrasyad@mazharrasyad:~$ grep ucrit /etc/passwd
mazharrasyad@mazharrasyad:~$
```

```
$ ls -l /home
```

Menampilkan detail di directory /home, terlihat bahwa directory ucrit tidak ada.

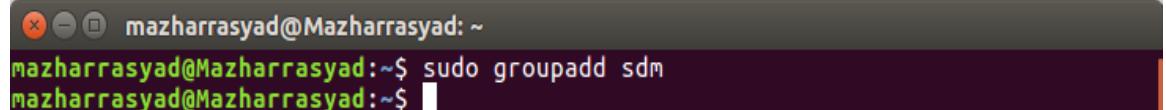


```
mazharrasyad@mazharrasyad:~$ ls -l /home
total 8
drwxr-xr-x 25 mazharrasyad mazharrasyad 4096 Des 23 19:09 mazharrasyad
drwxr-xr-x 2 1002 1003 4096 Des 23 20:50 usro
mazharrasyad@mazharrasyad:~$
```

- Menambah grup sdm

```
$ sudo groupadd sdm
```

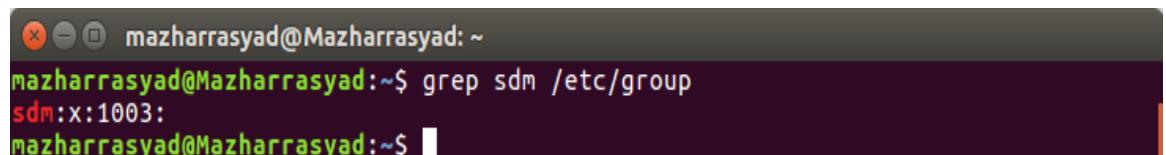
Membuat group baru dengan nama sdm.



```
mazharrasyad@mazharrasyad:~$ sudo groupadd sdm
mazharrasyad@mazharrasyad:~$
```

```
$ grep sdm /etc/group
```

Menampilkan group sdm pada directory /etc/group untuk memeriksa group telah terbuat.

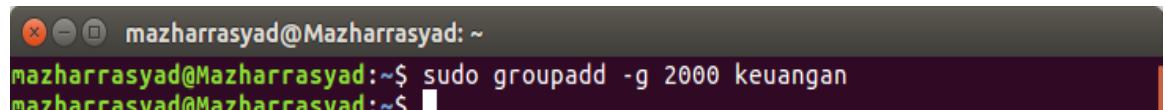


```
mazharrasyad@mazharrasyad:~$ grep sdm /etc/group
sdm:x:1003:
mazharrasyad@mazharrasyad:~$
```

- Menambah grup keuangan dengan GID=2000

```
$ sudo groupadd -g 2000 keuangan
```

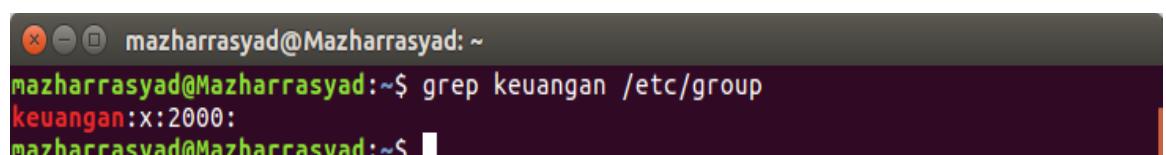
Membuat group baru dengan nama keuangan serta option -g untuk nomor group yang baru yaitu 2000.



```
mazharrasyad@mazharrasyad:~$ sudo groupadd -g 2000 keuangan
mazharrasyad@mazharrasyad:~$
```

```
$ grep keuangan /etc/group
```

Menampilkan group keuangan pada directory /etc/group untuk memeriksa group telah terbuat.

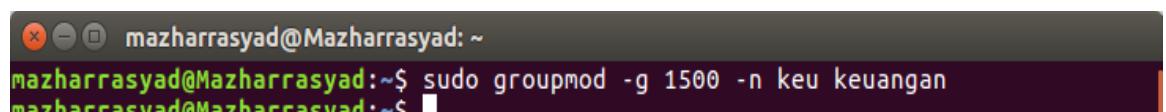


```
mazharrasyad@mazharrasyad:~$ grep keuangan /etc/group
keuangan:x:2000:
mazharrasyad@mazharrasyad:~$
```

- Mengubah nama grup keuangan menjadi keu dan group id-nya menjadi 1500

```
$ sudo groupmod -g 1500 -n keu keuangan
```

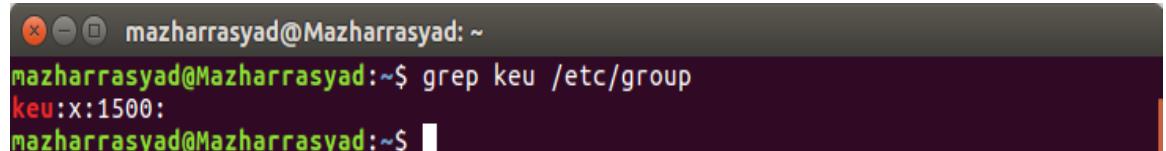
Mengubah group keuangan menjadi nama baru keu dengan option -n dan mengubah nama groupnya menjadi 1500 dengan option -g.



```
mazharrasyad@mazharrasyad:~$ sudo groupmod -g 1500 -n keu keuangan
mazharrasyad@mazharrasyad:~$
```

```
$ grep keu /etc/group
```

Menampilkan group keu di directory /etc/group



```
mazharrysyad@mazharrysyad:~$ grep keu /etc/group
keu:x:1500:
mazharrysyad@mazharrysyad:~$
```

- Menghapus grup keu

```
$ sudo groupdel keu
```

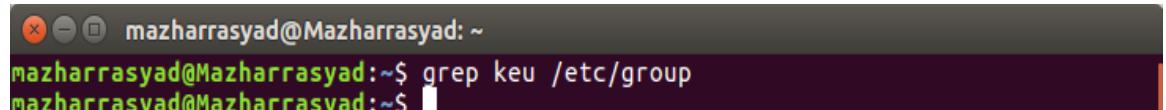
Menghapus group keu



```
mazharrysyad@mazharrysyad:~$ sudo groupdel keu
mazharrysyad@mazharrysyad:~$
```

```
$ grep keu /etc/group
```

Menampilkan group keu di directory /etc/group hasilnya tidak akan ada karena group keu sudah dihapus sebelumnya.

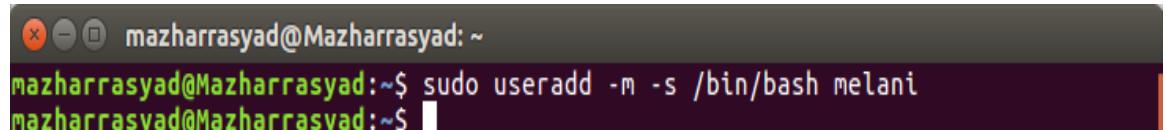


```
mazharrysyad@mazharrysyad:~$ grep keu /etc/group
mazharrysyad@mazharrysyad:~$
```

- Menambahkan password ke user melani

```
$ sudo useradd -m -s /bin/bash melani
```

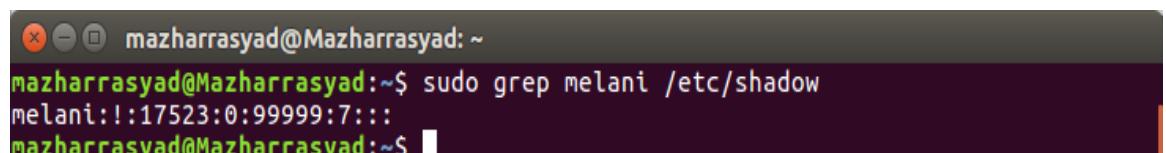
Menambahkan user baru melani dengan membuat directory dan nama login shell /bin/bash.



```
mazharrysyad@mazharrysyad:~$ sudo useradd -m -s /bin/bash melani
mazharrysyad@mazharrysyad:~$
```

```
$ sudo grep melani /etc/shadow
```

Menampilkan user melani pada directory /etc/shadow



```
mazharrysyad@mazharrysyad:~$ sudo grep melani /etc/shadow
melani:!!:17523:0:99999:7:::
mazharrysyad@mazharrysyad:~$
```

```
$ sudo passwd melani
```

Menambahkan password baru user melani.

```
mazharrasyad@mazharrasyad:~$ sudo passwd melani
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
mazharrasyad@mazharrasyad:~$
```

```
$ sudo grep melani /etc/passwd
```

Menampilkan user melani di directory /etc/passwd.

```
mazharrasyad@mazharrasyad:~$ sudo grep melani /etc/shadow
melani:$6$ivL0cjM.$7hyxdE9/detsPKVHWUj1tNb8ld60SIdi9agrC00xC5k5u9eoaXF0vHne3T0isrS5h1Nd5VZ46/WcxH4zCKVgF/:17523:0:99999:7:::
mazharrasyad@mazharrasyad:~$
```

- Menambahkan password ke group sdm

```
$ sudo gpasswd sdm
```

Mengelola password pada group sdm jika tanpa option.

```
mazharrasyad@mazharrasyad:~$ sudo gpasswd sdm
[sudo] password for mazharrasyad:
Changing the password for group sdm
New Password:
Re-enter new password:
mazharrasyad@mazharrasyad:~$
```

```
$ sudo grep sdm /etc/gshadow
```

Menampilkan group sdm di directory /etc/gshadow.

```
mazharrasyad@mazharrasyad:~$ sudo grep sdm /etc/gshadow
sdm:$6$NRBVp/1cGB$toGiLVe5Ds4UiX74eV0vEnTCdY/ez0yRxjcXfPhTPGn/lKG/zkValdsI28PZP/voE0hLTRufIHItnRMtzbAl:::
mazharrasyad@mazharrasyad:~$
```

- Menambahkan user melani ke group sdm

```
$ sudo gpasswd -a melani sdm
```

Mengelola group sdm dan option -a melani untuk menambahkan user ke group sdm.

```
mazharrasyad@mazharrasyad:~$ sudo gpasswd -a melani sdm
[sudo] password for mazharrasyad:
Adding user melani to group sdm
mazharrasyad@mazharrasyad:~$
```

```
$ grep sdm /etc/gshadow
```

Menampilkan group sdm di directory /etc/gshadow, terlihat bahwa tidak dapat ditampilkan karena membutuhkan hak akses.

```
mazharrasyad@Mazharrasyad: ~  
mazharrasyad@Mazharrasyad:~$ grep sdm /etc/gshadow  
grep: /etc/gshadow: Permission denied  
mazharrasyad@Mazharrasyad:~$
```

```
$ sudo grep sdm /etc/gshadow
```

Menampilkan group sdm di directory /etc/gshadow.

```
mazharrasyad@Mazharrasyad: ~  
mazharrasyad@Mazharrasyad:~$ sudo grep sdm /etc/gshadow  
sdm:$6$NRBVp/1cGB$toGiLVe5Ds4UiLX74eV0vEnTCdY/ez0yRxjcXfPhTPGn/lKG/zkValds128PZP/voE0hLTRufIHItnRMtzbAl.:melani  
mazharrasyad@Mazharrasyad:~$
```

- Mengubah group aktif menjadi sdm oleh user yg menjadi anggota group

```
$ sudo su - melani
```

Mengganti user dengan perintah su (Subtitusi) dan option - untuk user melani

```
melani@Mazharrasyad: ~  
mazharrasyad@Mazharrasyad:~$ sudo su - melani  
[sudo] password for mazharrasyad:  
melani@Mazharrasyad:~$
```

```
$ id
```

Menampilkan id user yang sedang dijalankan seperti uid (User ID), gid (Group ID).

```
melani@Mazharrasyad: ~  
melani@Mazharrasyad:~$ id  
uid=1002(melani) gid=1004(melani) groups=1004(melani),1003(sdm)  
melani@Mazharrasyad:~$
```

```
$ newgrp sdm
```

Masuk ke dalam group yang baru dengan nama sdm.

```
melani@Mazharrasyad: ~  
melani@Mazharrasyad:~$ newgrp sdm  
melani@Mazharrasyad:~$
```

```
$ id
```

Menampilkan id user yang sedang dijalankan.

```
melani@Mazharrasyad: ~  
melani@Mazharrasyad:~$ id  
uid=1002(melani) gid=1003(sdm) groups=1003(sdm),1004(melani)  
melani@Mazharrasyad:~$
```

```
$ exit
```

Keluar dari group yang sedang dijalankan.

```
melani@Mazharryad: ~
melani@Mazharryad:~$ exit
exit
melani@Mazharryad:~$
```

- Mengubah group aktif menjadi sdm oleh user yg bukan anggota group

```
$ sudo su - unyil
```

Mengubah user menjadi user unyil, karena tidak ada directory maka akan tampil seperti gambar dibawah.

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ sudo su - unyil
[sudo] password for mazharryad:
No directory, logging in with HOME=/
$
```

```
$ id
```

Menampilkan id user unyil.

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ sudo su - unyil
[sudo] password for mazharryad:
No directory, logging in with HOME=/
$ id
uid=1001(unyil) gid=1002(unyil) groups=1002(unyil)
$
```

```
$ newgrp sdm
```

Masuk ke dalam group yang baru dengan nama sdm.

```
mazharryad@mazharryad: ~
$ newgrp sdm
Password:
unyil@mazharryad:/$
```

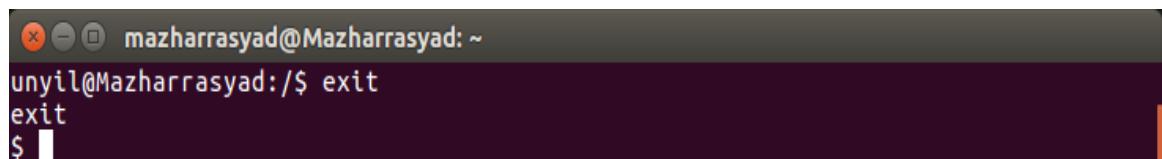
```
$ id
```

Menampilkan id user unyil.

```
mazharryad@mazharryad: ~
unyil@mazharryad:/$ id
uid=1001(unyil) gid=1003(sdm) groups=1003(sdm),1002(unyil)
unyil@mazharryad:/$
```

```
$ exit
```

Keluar dari group sdm.



```
mazharrasyad@Mazharrasyad: ~  
unyil@Mazharrasyad:/$ exit  
exit  
$
```

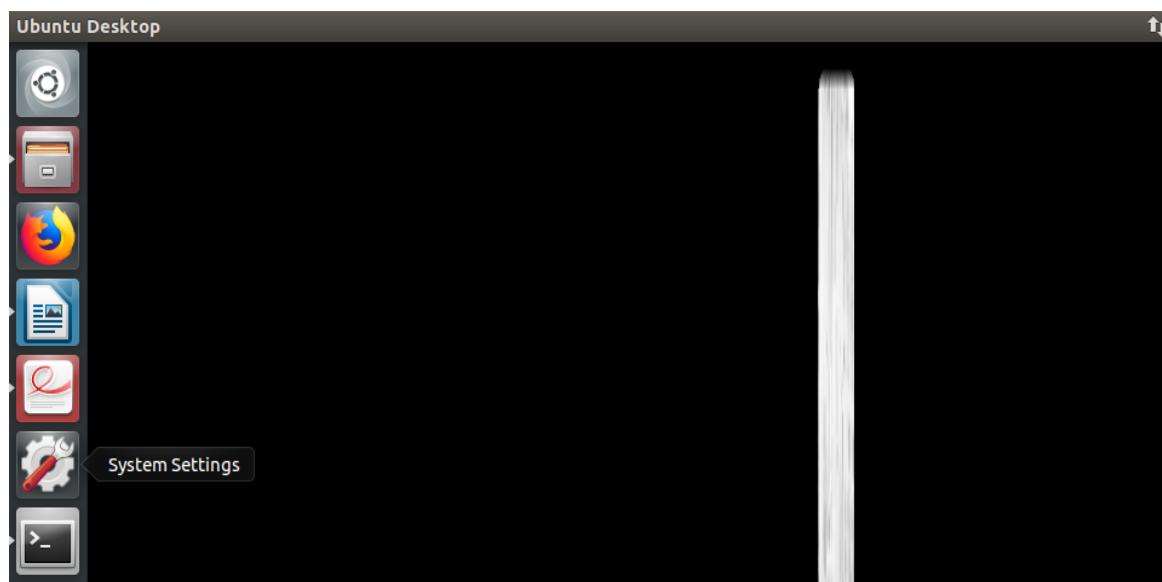
A screenshot of a terminal window titled "mazharrasyad@Mazharrasyad: ~". The window shows the command "exit" being typed and then executed, resulting in a blank terminal prompt.

### 3. Administrasi user di desktop

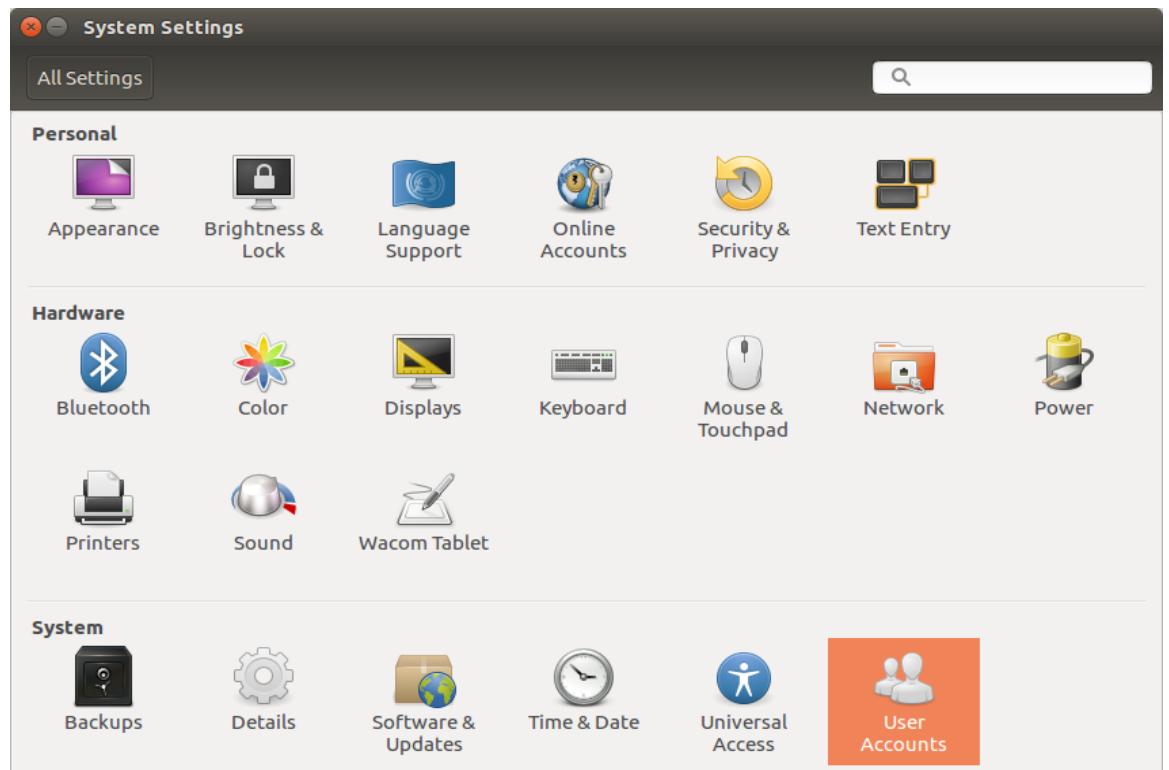
- Jalankan program **User Account** :

```
$ Klik ikon System Settings pada Launcher
```

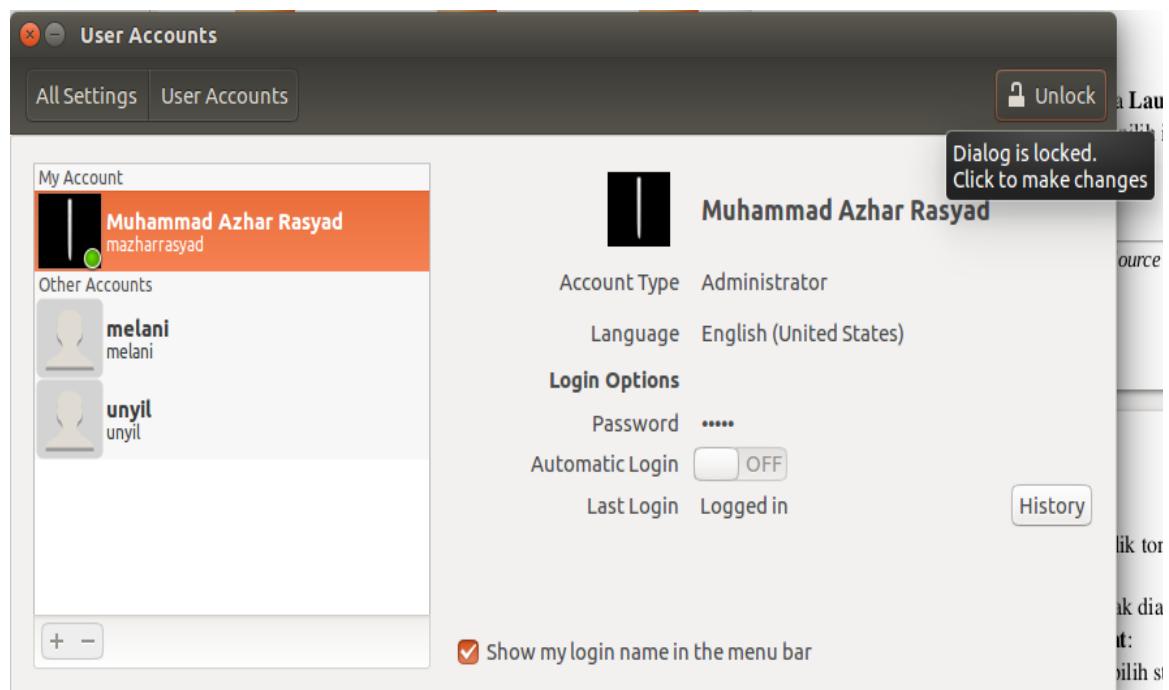
Launcher secara default pada ubuntu ada disebelah kiri.

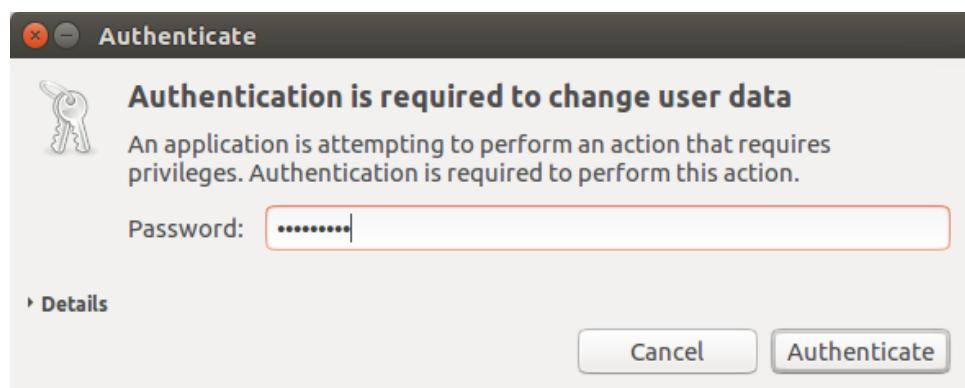
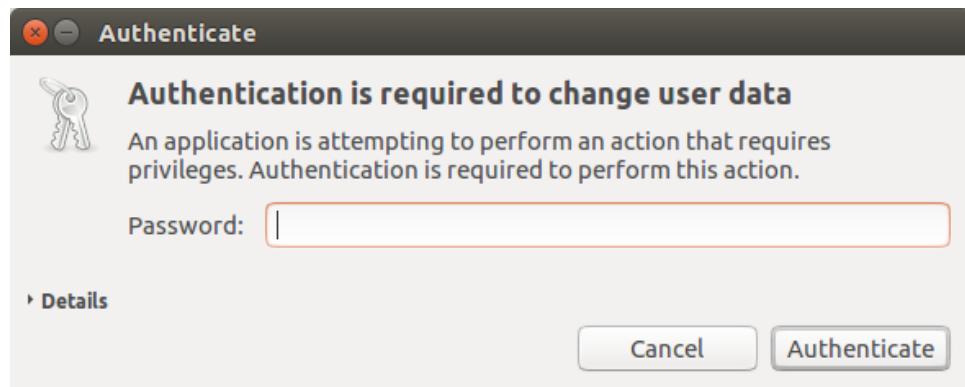


- \$ Pada window **System Settings** pilih ikon **User Account**, akan menampilkan window **User Accounts**



- \$ Pada window **User Account**, klik tombol **unlock** agar bisa melakukan perubahan





Maka akan tampilan seperti berikut.

User Accounts

All Settings User Accounts Lock

My Account

Muhammad Azhar Rasyad  
mazharrasyad

Other Accounts

melani  
melani

unyil  
unyil

+

Account Type Administrator

Language English (United States)

Login Options

Password .....

Automatic Login OFF

Last Login Logged in

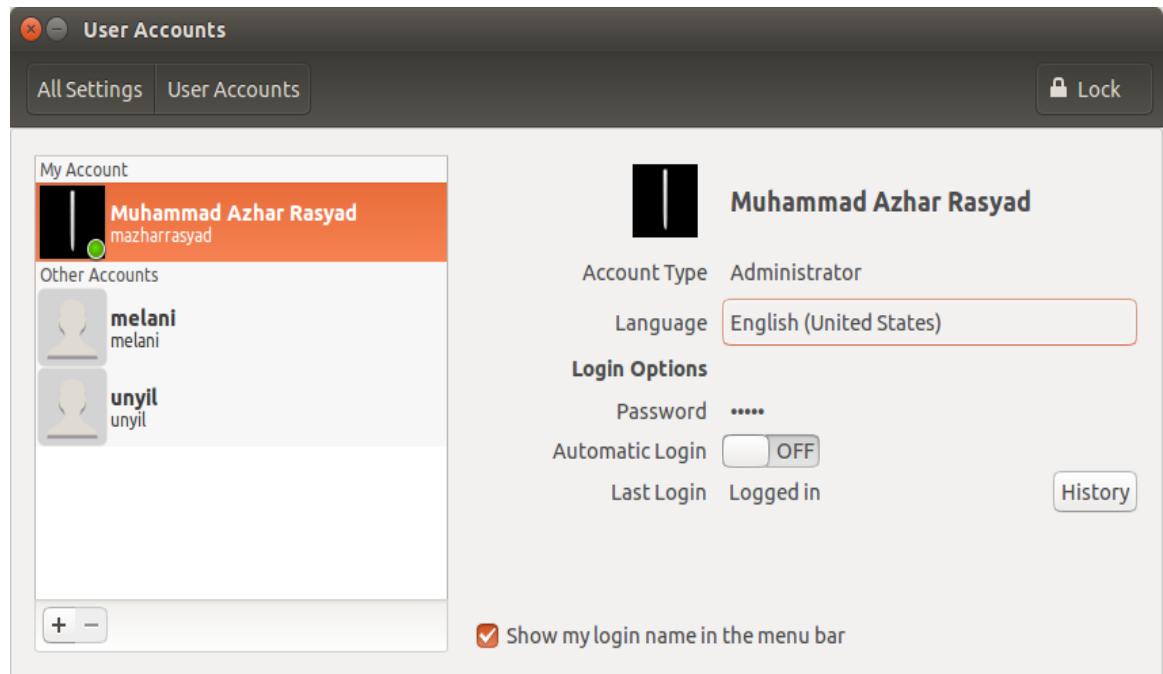
Show my login name in the menu bar

History

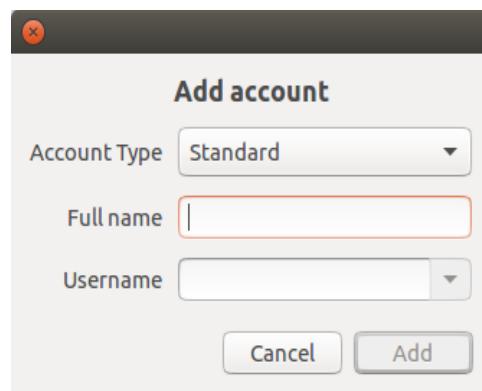
- Menambahkan user dora :

\$ Klik tombol +, akan tampil kotak dialog **Add Account**

Tombol + ada dibawah kiri untuk menambahkan akun baru.

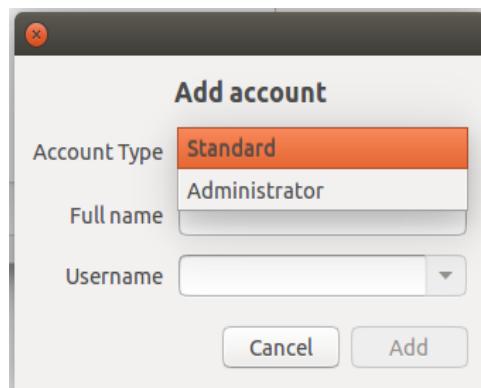


Maka akan muncul kotak dialog berikut.

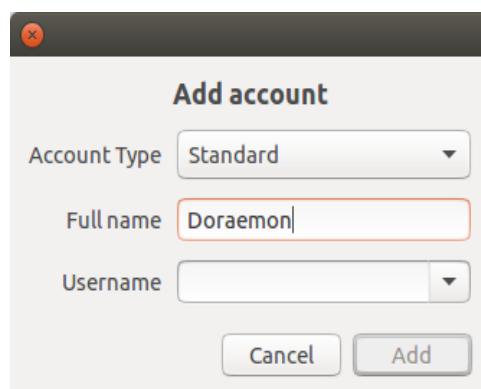


\$ Pada kotak dialog **Add Account** :

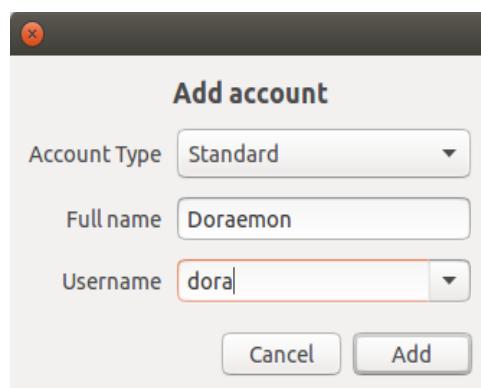
- ✓ Pada field **Account Type**, pilih standard



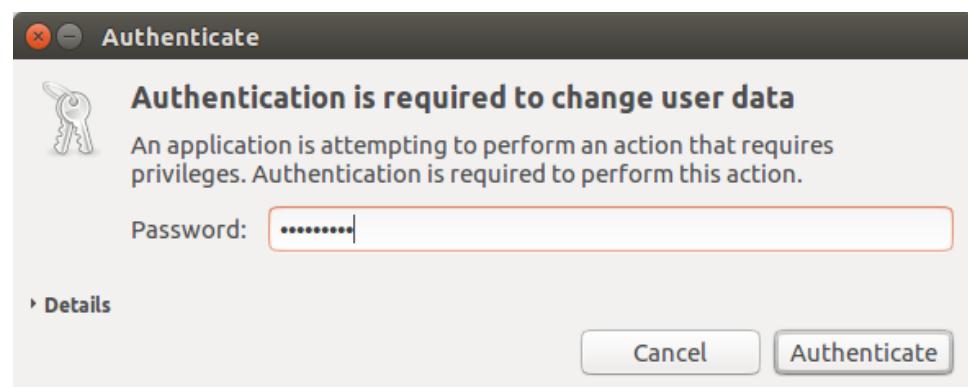
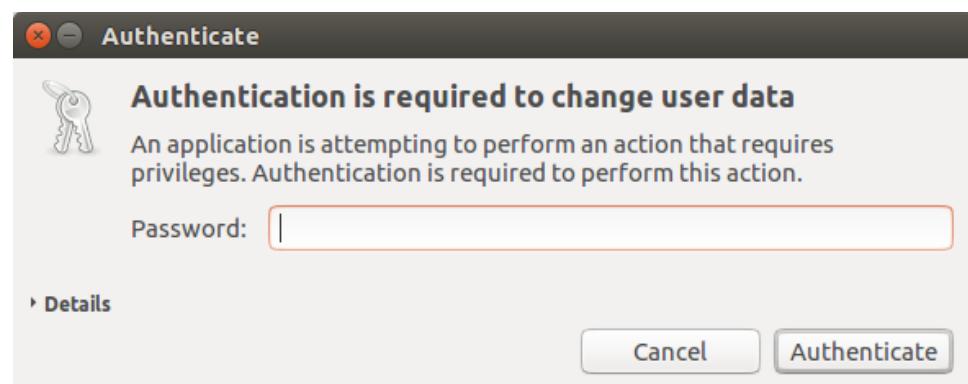
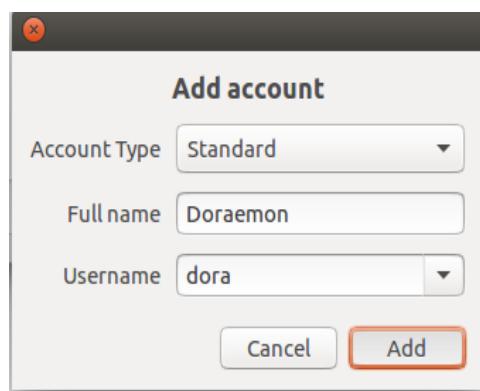
- ✓ Pada field **Full name**, ketikkan Doraemon



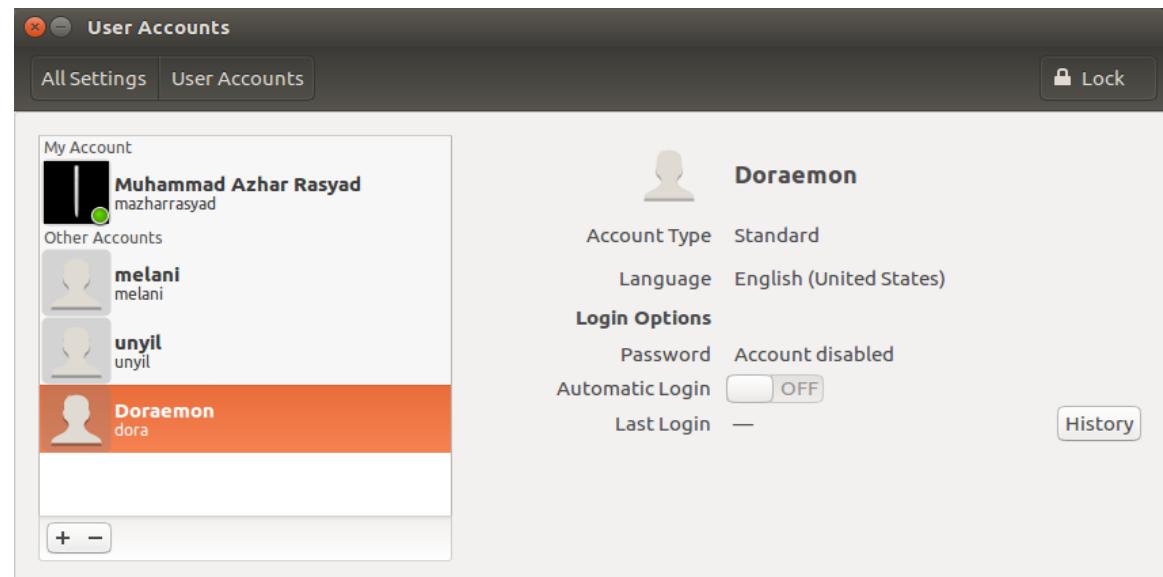
- ✓ Pada field **Username**, ketikkan dora



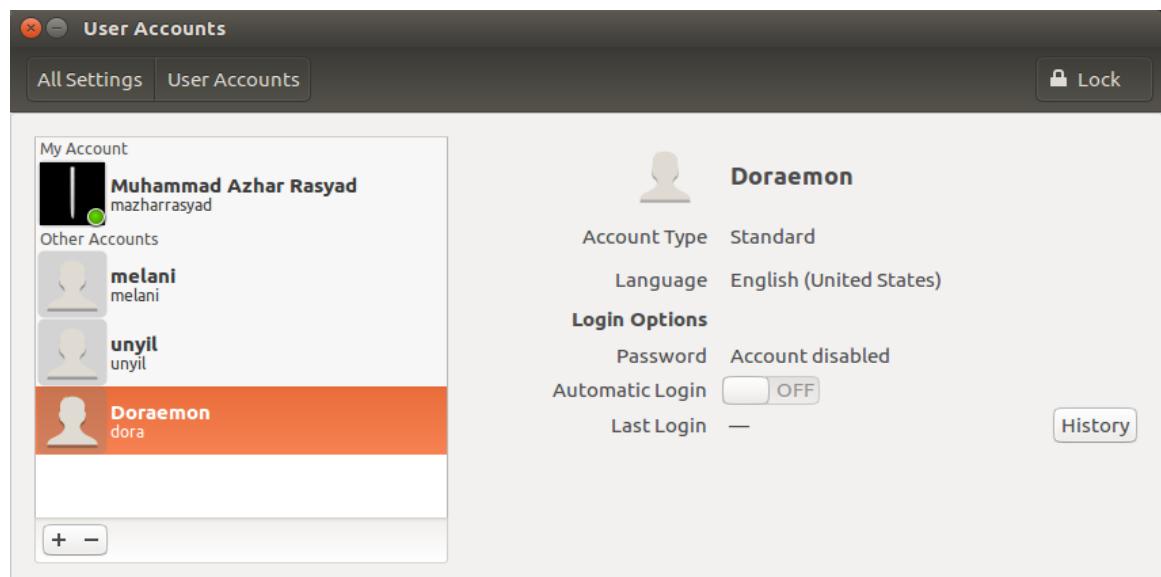
- ✓ Klik tombol **Add** untuk mengakhiri



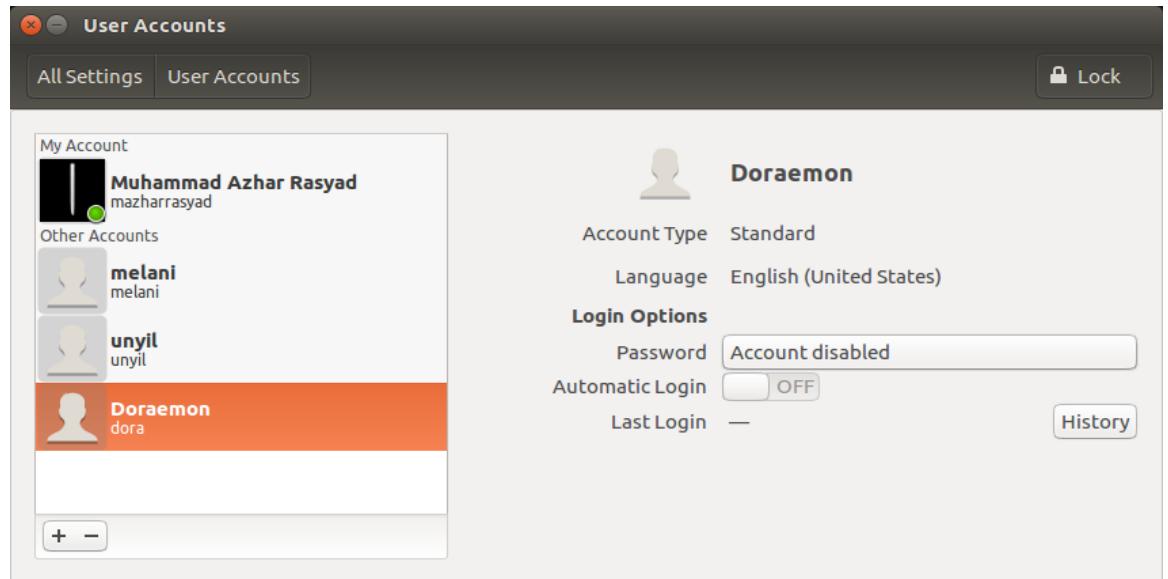
Maka user baru dengan nama Doraemon telah terbuat.



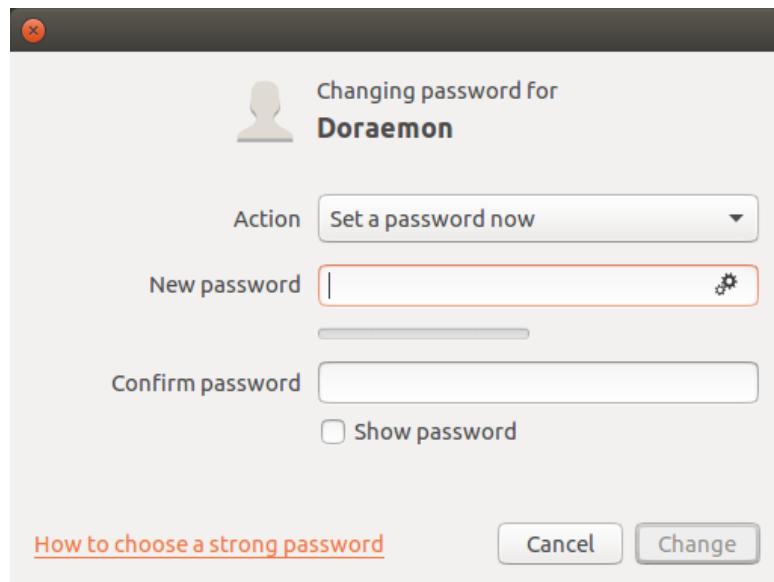
- Menambahkan password pada user dora :  
\$ Pada daftar user, pilih user dora



- \$ Pada field **Password**, klik tombol **Password disabled** akan menampilkan kotak dialog **Mengganti password**



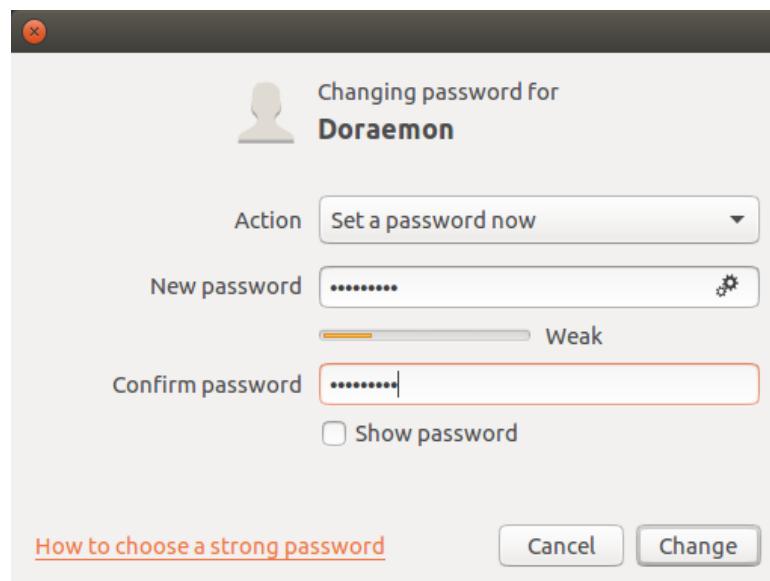
- \$ Pada kotak dialog **Mengganti password**



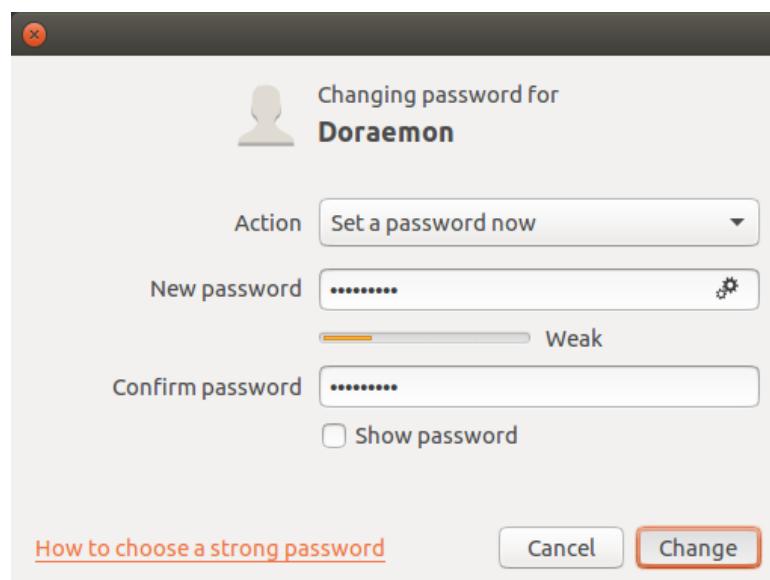
- ✓ Ketikkan password yang diinginkan pada field **New password**



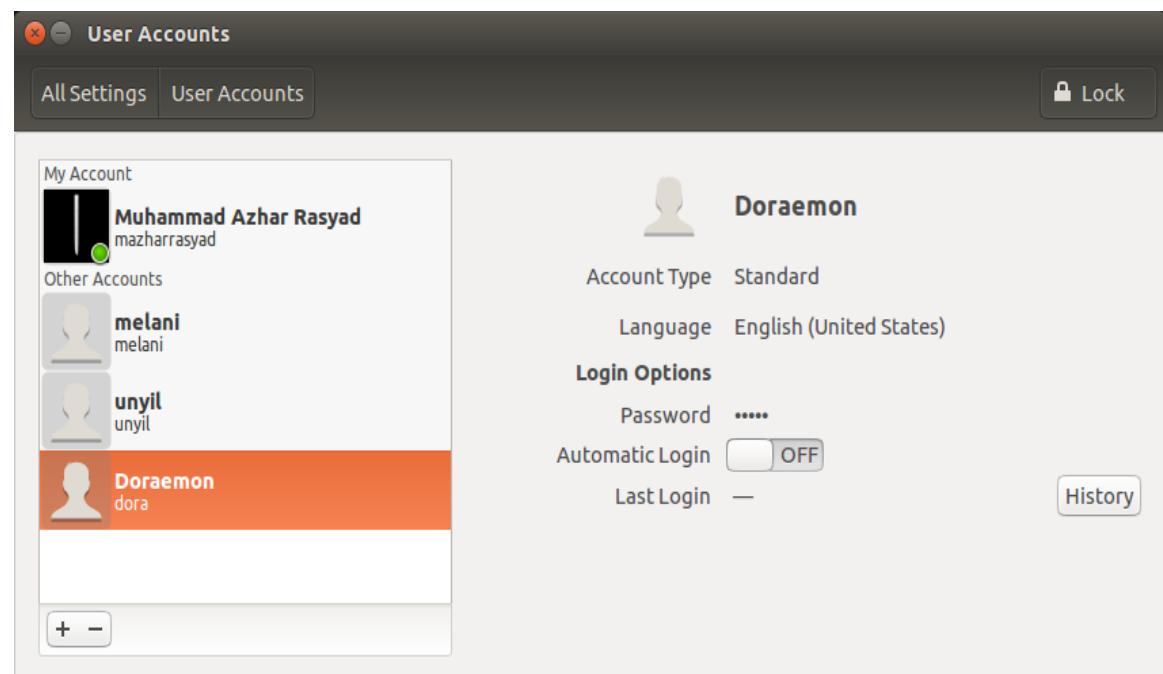
- ✓ Ulangi password yang sama pada field **Confirm password**



- ✓ Klik tombol **Change** untuk mengakhiri

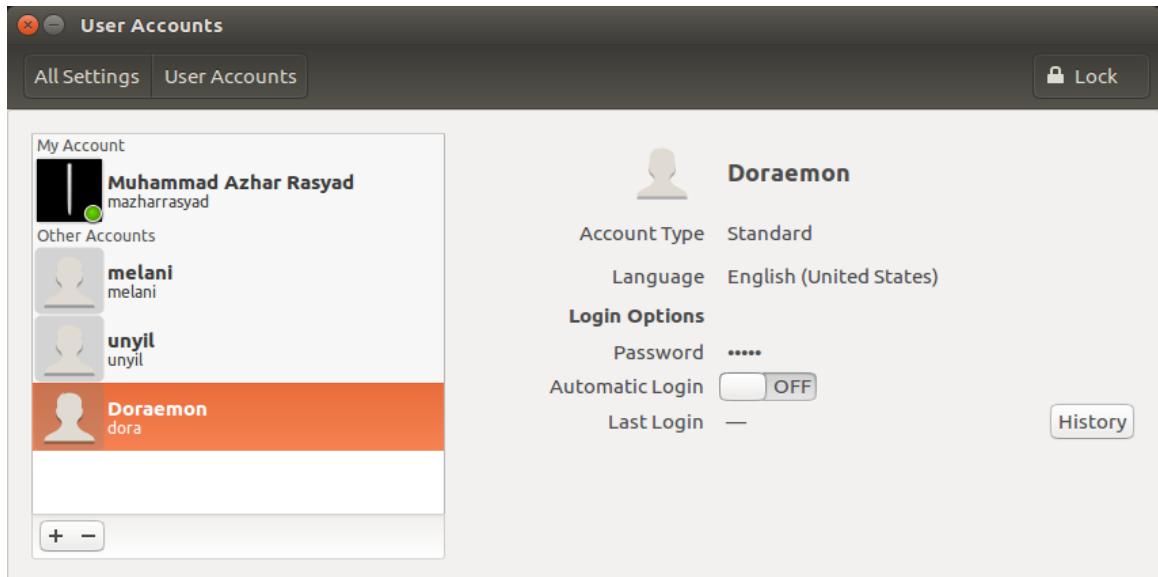


Maka pada user Doraemon di kolom Password menjadi berisi \* yang artinya memiliki password.

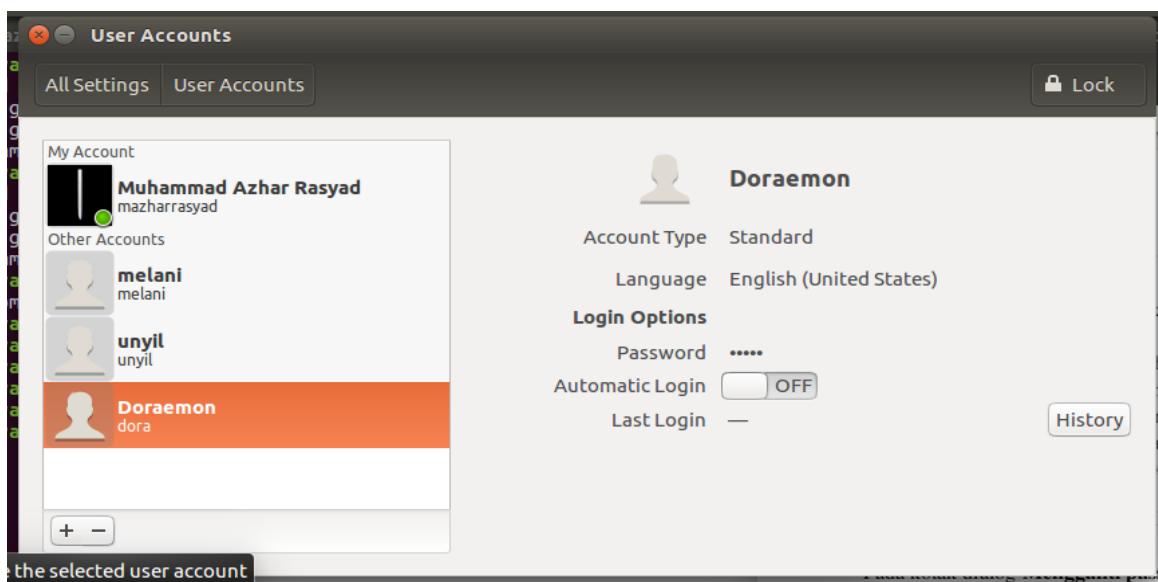


- Menghapus user dora :

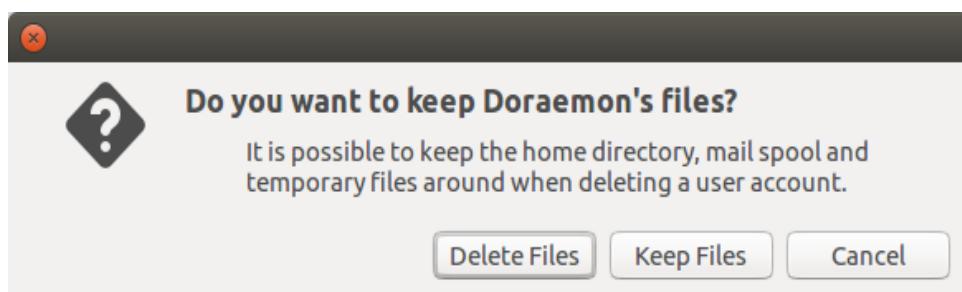
\$ Pada daftar user, pilih user dora



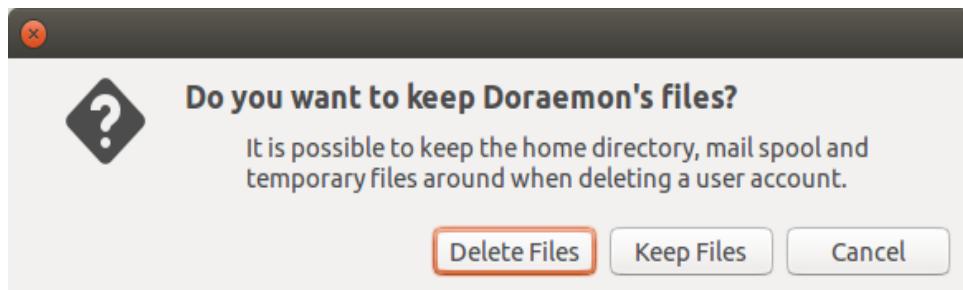
\$ Klik tombol -, akan tampil kotak dialog untuk melakukan konfirmasi



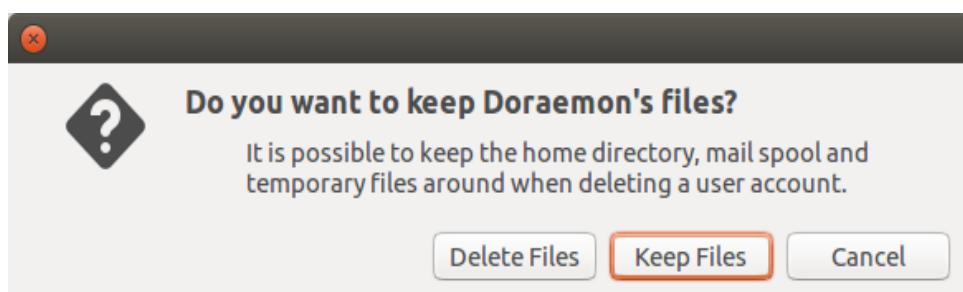
\$ Pada kotak dialog, pilih **Delete files** untuk menghapus direktori home atau pilih **Keep files** kalau tidak ingin direktori home dihapus



Delete Files maka file pada user Doraemon akan terhapus.



Keep Files maka file pada user Doraemon akan tersimpan.

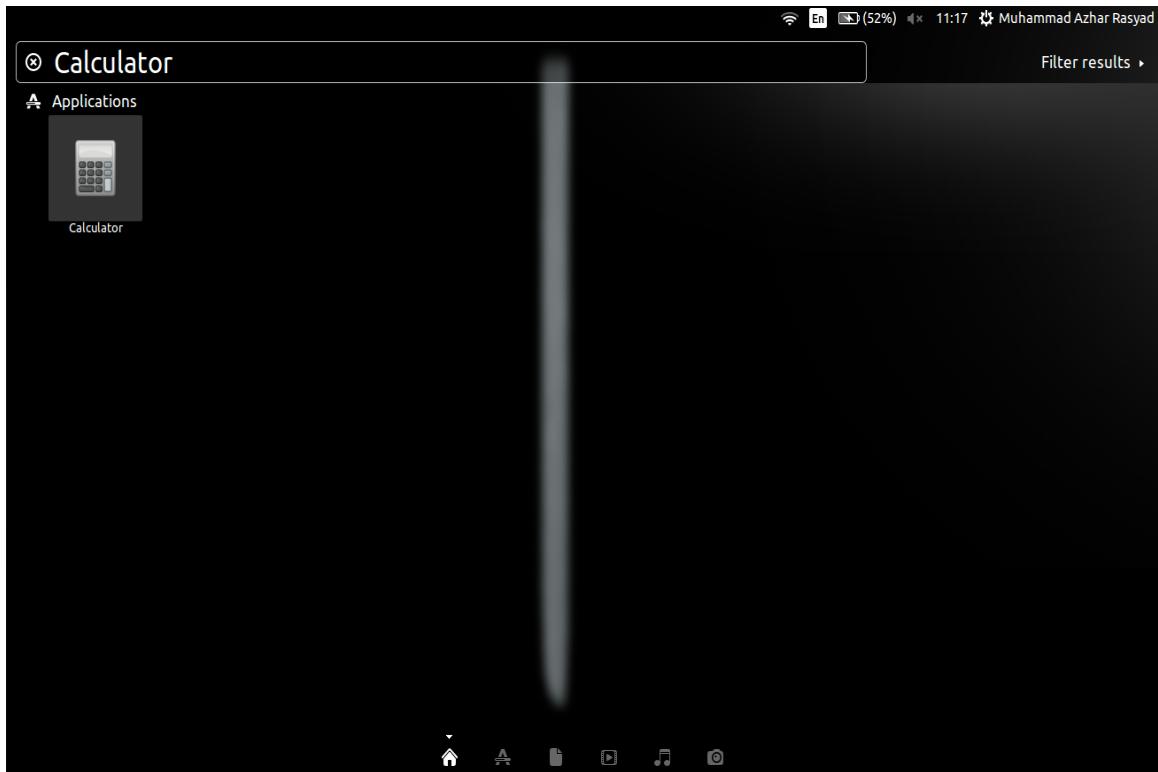


Maka user Doraemon akan terhapus.

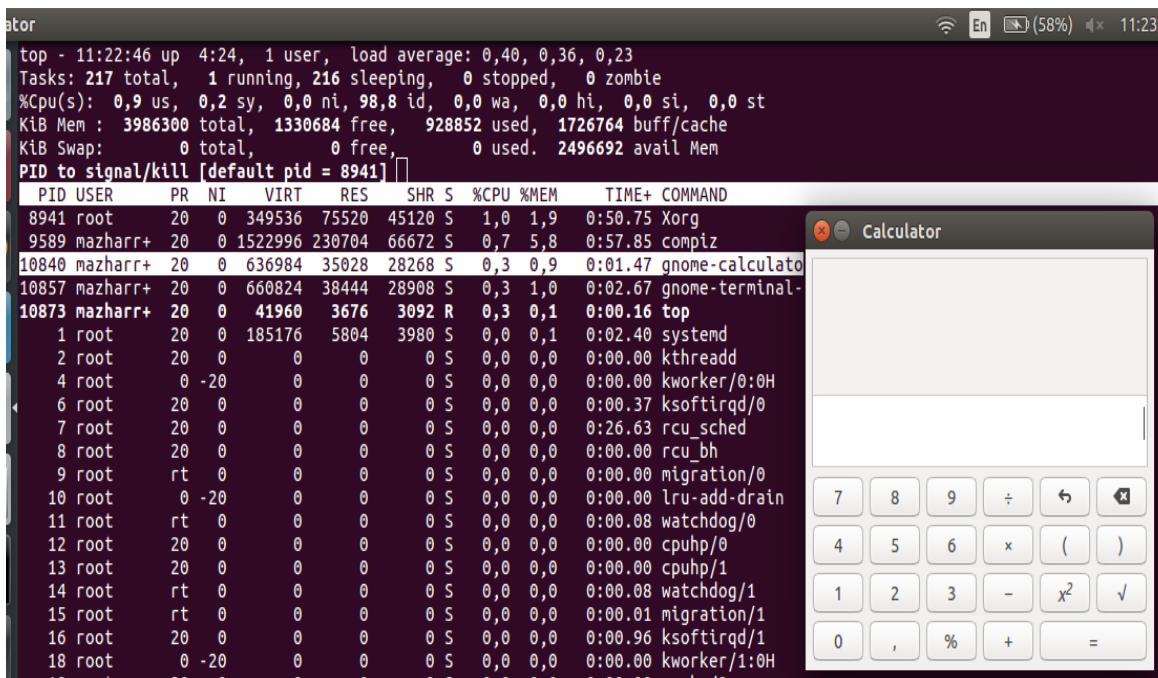
The User Accounts window shows the "User Accounts" tab selected. On the left, under "My Account", the user "Muhammad Azhar Rasyad" (mazharryad) is listed with an orange background. Under "Other Accounts", users "melani" and "unyil" are listed. On the right, the details for "Muhammad Azhar Rasyad" are shown: Account Type: Administrator, Language: English (United States). Under "Login Options", Password is set to "\*\*\*\*\*", Automatic Login is off, and Last Login is "Logged in". A checkbox at the bottom left says "Show my login name in the menu bar".

## D. Tugas

1. Jalankan program kalkulator. Tuliskan perintah di terminal untuk menghentikan (terminate) program kalkulator yang baru dijalankan tersebut !



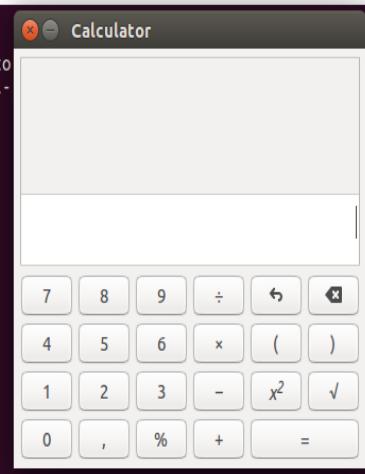
Ketikkan perintah “top” pada terminal kemudian tekan tombol K maka akan keluar seperti tampilan berikut :



or

```
top - 11:22:46 up 4:24, 1 user, load average: 0,40, 0,36, 0,23
Tasks: 217 total, 1 running, 216 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0,9 us, 0,2 sy, 0,0 ni, 98,8 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3986300 total, 1330684 free, 928852 used, 1726764 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 2496692 avail Mem
PID to signal/kill [default pid = 8941] 10840
```

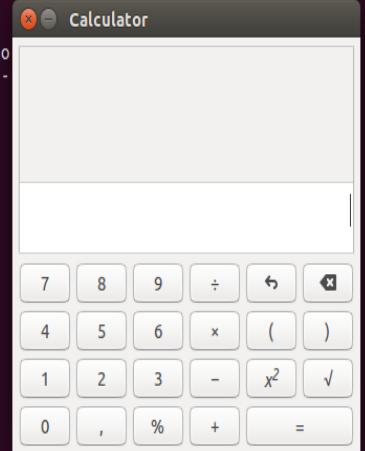
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
8941	root	20	0	349536	75520	45120	S	1,0	1,9	0:50.75	Xorg
9589	mazharr+	20	0	1522996	230704	66672	S	0,7	5,8	0:57.85	compiz
10840	mazharr+	20	0	636984	35028	28268	S	0,3	0,9	0:01.47	gnome-calculator
10857	mazharr+	20	0	660824	38444	28908	S	0,3	1,0	0:02.67	gnome-terminal
10873	mazharr+	20	0	41960	3676	3092	R	0,3	0,1	0:00.16	top
1	root	20	0	185176	5804	3980	S	0,0	0,1	0:02.40	systemd
2	root	20	0	0	0	0	S	0,0	0,0	0:00.00	kthreadd
4	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	kworker/0:0H
6	root	20	0	0	0	0	S	0,0	0,0	0:00.37	ksoftirqd/0
7	root	20	0	0	0	0	S	0,0	0,0	0:26.63	rcu_sched
8	root	20	0	0	0	0	S	0,0	0,0	0:00.00	rcu_bh
9	root	rt	0	0	0	0	S	0,0	0,0	0:00.00	migration/0
10	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	lru-add-drain
11	root	rt	0	0	0	0	S	0,0	0,0	0:00.08	watchdog/0
12	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/0
13	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/1
14	root	rt	0	0	0	0	S	0,0	0,0	0:00.08	watchdog/1
15	root	rt	0	0	0	0	S	0,0	0,0	0:00.01	migration/1
16	root	20	0	0	0	0	S	0,0	0,0	0:00.96	ksoftirqd/1
18	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	kworker/1:0H
19	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/2



tor

```
top - 11:22:46 up 4:24, 1 user, load average: 0,40, 0,36, 0,23
Tasks: 217 total, 1 running, 216 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0,9 us, 0,2 sy, 0,0 ni, 98,8 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3986300 total, 1330684 free, 928852 used, 1726764 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 2496692 avail Mem
Send pid 10840 signal [15/sigterm]
```

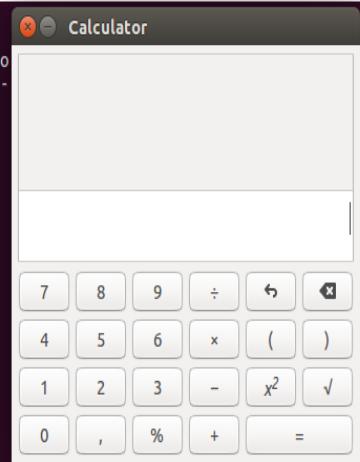
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
8941	root	20	0	349536	75520	45120	S	1,0	1,9	0:50.75	Xorg
9589	mazharr+	20	0	1522996	230704	66672	S	0,7	5,8	0:57.85	compiz
10840	mazharr+	20	0	636984	35028	28268	S	0,3	0,9	0:01.47	gnome-calculator
10857	mazharr+	20	0	660824	38444	28908	S	0,3	1,0	0:02.67	gnome-terminal
10873	mazharr+	20	0	41960	3676	3092	R	0,3	0,1	0:00.16	top
1	root	20	0	185176	5804	3980	S	0,0	0,1	0:02.40	systemd
2	root	20	0	0	0	0	S	0,0	0,0	0:00.00	kthreadd
4	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	kworker/0:0H
6	root	20	0	0	0	0	S	0,0	0,0	0:00.37	ksoftirqd/0
7	root	20	0	0	0	0	S	0,0	0,0	0:26.63	rcu_sched
8	root	20	0	0	0	0	S	0,0	0,0	0:00.00	rcu_bh
9	root	rt	0	0	0	0	S	0,0	0,0	0:00.00	migration/0
10	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	lru-add-drain
11	root	rt	0	0	0	0	S	0,0	0,0	0:00.08	watchdog/0
12	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/0
13	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/1
14	root	rt	0	0	0	0	S	0,0	0,0	0:00.08	watchdog/1
15	root	rt	0	0	0	0	S	0,0	0,0	0:00.01	migration/1
16	root	20	0	0	0	0	S	0,0	0,0	0:00.96	ksoftirqd/1
18	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	kworker/1:0H
19	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/2



tor

```
top - 11:22:46 up 4:24, 1 user, load average: 0,40, 0,36, 0,23
Tasks: 217 total, 1 running, 216 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0,9 us, 0,2 sy, 0,0 ni, 98,8 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3986300 total, 1330684 free, 928852 used, 1726764 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 2496692 avail Mem
Send pid 10840 signal [15/sigterm] 9
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
8941	root	20	0	349536	75520	45120	S	1,0	1,9	0:50.75	Xorg
9589	mazharr+	20	0	1522996	230704	66672	S	0,7	5,8	0:57.85	compiz
10840	mazharr+	20	0	636984	35028	28268	S	0,3	0,9	0:01.47	gnome-calculator
10857	mazharr+	20	0	660824	38444	28908	S	0,3	1,0	0:02.67	gnome-terminal
10873	mazharr+	20	0	41960	3676	3092	R	0,3	0,1	0:00.16	top
1	root	20	0	185176	5804	3980	S	0,0	0,1	0:02.40	systemd
2	root	20	0	0	0	0	S	0,0	0,0	0:00.00	kthreadd
4	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	kworker/0:0H
6	root	20	0	0	0	0	S	0,0	0,0	0:00.37	ksoftirqd/0
7	root	20	0	0	0	0	S	0,0	0,0	0:26.63	rcu_sched
8	root	20	0	0	0	0	S	0,0	0,0	0:00.00	rcu_bh
9	root	rt	0	0	0	0	S	0,0	0,0	0:00.00	migration/0
10	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	lru-add-drain
11	root	rt	0	0	0	0	S	0,0	0,0	0:00.08	watchdog/0
12	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/0
13	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/1
14	root	rt	0	0	0	0	S	0,0	0,0	0:00.08	watchdog/1
15	root	rt	0	0	0	0	S	0,0	0,0	0:00.01	migration/1
16	root	20	0	0	0	0	S	0,0	0,0	0:00.96	ksoftirqd/1
18	root	0	-20	0	0	0	S	0,0	0,0	0:00.00	kworker/1:0H
19	root	20	0	0	0	0	S	0,0	0,0	0:00.00	cpuhp/2



rasyad@mazharryad: ~

```
top - 11:25:03 up 4:26, 1 user, load average: 0,13, 0,26, 0,21
Tasks: 215 total, 3 running, 212 sleeping, 0 stopped, 0 zombie
%Cpu(s): 2,9 us, 0,8 sy, 0,0 ni, 94,1 id, 2,1 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 3986300 total, 1319468 free, 928476 used, 1738356 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 2486616 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
9821	mazharr+	20	0	521984	21828	14120	S	3,2	0,5	0:27.68	zeitgeist-datah
<b>9589</b>	<b>mazharr+</b>	<b>20</b>	<b>0</b>	<b>1522992</b>	<b>230708</b>	<b>66676</b>	<b>R</b>	<b>2,5</b>	<b>5,8</b>	<b>1:01.21</b>	<b>compiz</b>
8941	root	20	0	354040	79568	49168	S	2,2	2,0	0:53.80	Xorg
10857	mazharr+	20	0	660824	38444	28908	S	0,7	1,0	0:03.59	gnome-terminal
9261	mazharr+	20	0	345900	7480	5524	S	0,5	0,2	0:06.04	ibus-daemon
9626	mazharr+	20	0	1377116	53336	34832	S	0,4	1,3	0:09.01	nautilus
9455	mazharr+	20	0	647748	44384	26224	S	0,3	1,1	0:04.99	unity-panel-ser
9246	mazharr+	20	0	523796	27396	21852	S	0,2	0,7	0:03.08	bamfdaemon
9195	mazharr+	20	0	43920	4508	2928	S	0,2	0,1	0:02.78	dbus-daemon
<b>9443</b>	<b>mazharr+</b>	<b>20</b>	<b>0</b>	<b>654044</b>	<b>47876</b>	<b>31000</b>	<b>R</b>	<b>0,2</b>	<b>1,2</b>	<b>0:04.96</b>	<b>hud-service</b>
7	root	20	0	0	0	0	S	0,2	0,0	0:26.89	rcu_sched
9277	mazharr+	20	0	477812	29872	24944	S	0,2	0,7	0:02.12	ibus-ui-gtk3
1220	root	20	0	167680	11900	8864	S	0,1	0,3	0:19.12	teamviewerd
8837	root	20	0	0	0	0	S	0,1	0,0	0:02.49	kworker/u16:1
9293	mazharr+	20	0	188396	5516	5168	S	0,1	0,1	0:01.39	ibus-engine-sim
9927	mazharr+	20	0	1844776	203996	105328	S	0,1	5,1	0:32.02	soffice.bin
10506	root	20	0	0	0	0	S	0,1	0,0	0:01.01	kworker/u16:2
897	message+	20	0	44392	5444	3596	S	0,1	0,1	0:06.46	dbus-daemon
9561	mazharr+	9	-11	435316	12104	8796	S	0,0	0,3	0:00.29	pulseaudio
9816	mazharr+	20	0	348788	47576	13212	S	0,0	1,2	0:01.62	zeitgeist-fts
1	root	20	0	185176	5804	3980	S	0,0	0,1	0:02.45	systemd
903	root	20	0	449504	16812	13780	S	0,0	0,4	0:06.44	NetworkManager
8571	root	20	0	0	0	0	S	0,0	0,0	0:01.34	kworker/1:2
10652	root	20	0	0	0	0	S	0,0	0,0	0:00.32	kworker/1:1
9254	mazharr+	20	0	32888	1692	1296	S	0,0	0,0	0:00.48	upstart-dbus-br
9445	mazharr+	20	0	928284	33284	25892	S	0,0	0,8	0:00.84	unity-settings-
9622	mazharr+	20	0	663572	34988	29448	S	0,0	0,9	0:00.96	nm-applet
10118	root	20	0	0	0	0	S	0,0	0,0	0:00.63	kworker/2:2
9577	mazharr+	20	0	22372	1108	944	S	0,0	0,0	0:00.15	syndaemon
9640	mazharr+	20	0	532024	17108	14656	S	0,0	0,4	0:00.46	mouseserver
9763	mazharr+	20	0	350580	6468	5704	S	0,0	0,2	0:00.10	gvfsd-trash
9973	mazharr+	20	0	645016	17012	13000	S	0,0	0,4	0:00.61	unity-scope-hom
245	root	20	0	0	0	0	S	0,0	0,0	0:00.84	jbd2/sda6-8
820	root	20	0	0	0	0	D	0,0	0,0	0:02.64	rtsx_usb_ms_1
888	root	20	0	4400	1320	1224	S	0,0	0,0	0:01.01	acpid
904	root	20	0	166444	8736	8016	S	0,0	0,2	0:01.24	thermald

2. Tuliskan perintah di terminal untuk menampilkan total penggunaan direktori /usr dalam format yang familiar dengan manusia !

```
mazharryad@mazharryad:~  
mazharryad@mazharryad:~$ df -h /usr  
Filesystem      Size  Used Avail Use% Mounted on  
/dev/sda6        94G  8,4G   81G  10% /  
mazharryad@mazharryad:~$
```

3. Tuliskan perintah di terminal untuk menampilkan jumlah memori dalam satuan megabytes!

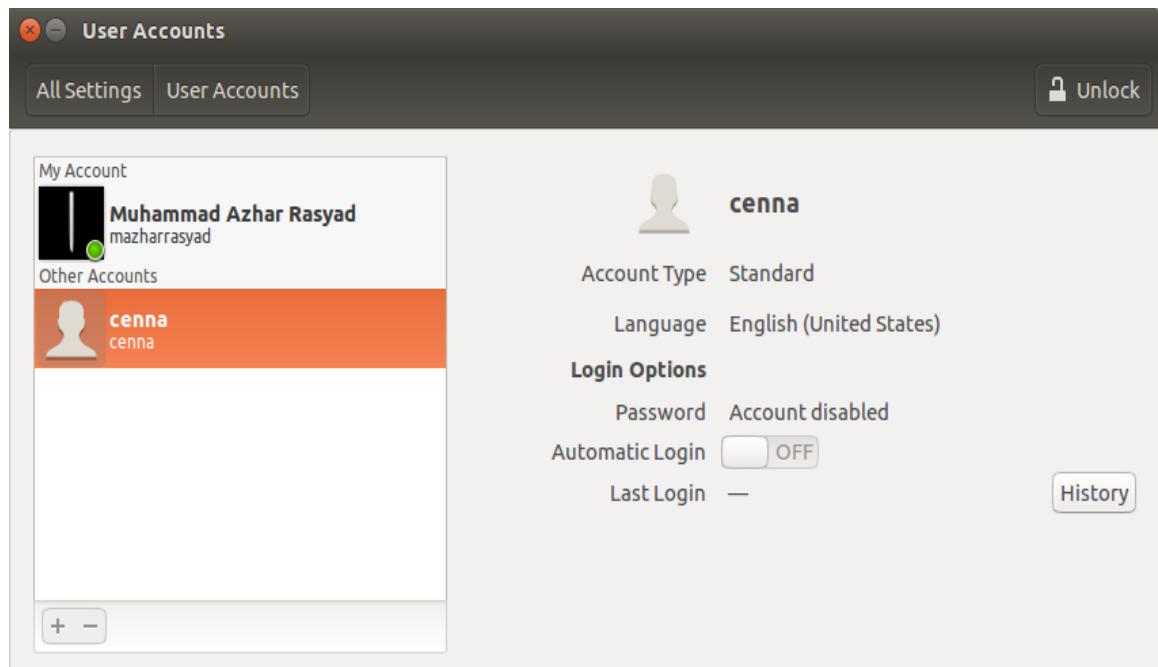
```
mazharryad@mazharryad:~  
mazharryad@mazharryad:~$ free -m  
total        used        free      shared  buff/cache   available  
Mem:       3892         963        968        257       1961       2352  
Swap:          0          0          0  
mazharryad@mazharryad:~$
```

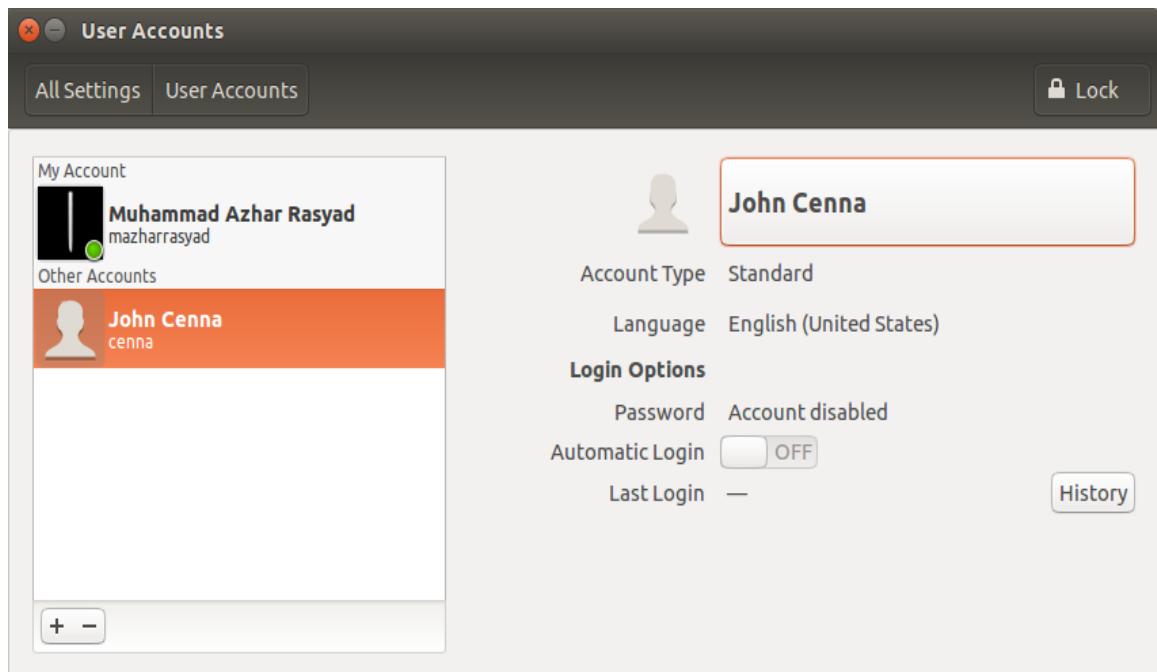
4. Tuliskan perintah di terminal untuk membuat user dengan entri seperti di bawah ini:

```
$ grep cenna /etc/passwd
```

```
cenna:x:1010:1010:John Cenna:/home/cenna:/bin/bash
```

```
mazharryad@mazharryad:~  
mazharryad@mazharryad:~$ sudo useradd -s /bin/bash cenna  
mazharryad@mazharryad:~$
```





```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ grep cenna /etc/passwd
cenna:x:1001:1004:John Cenna:/home/cenna:/bin/bash
mazharryad@mazharryad:~$
```

5. Perhatikan data di bawah ini!

```
$ grep john /etc/passwd
```

```
john:x:1015:1015::/home/john:/bin/bash
```

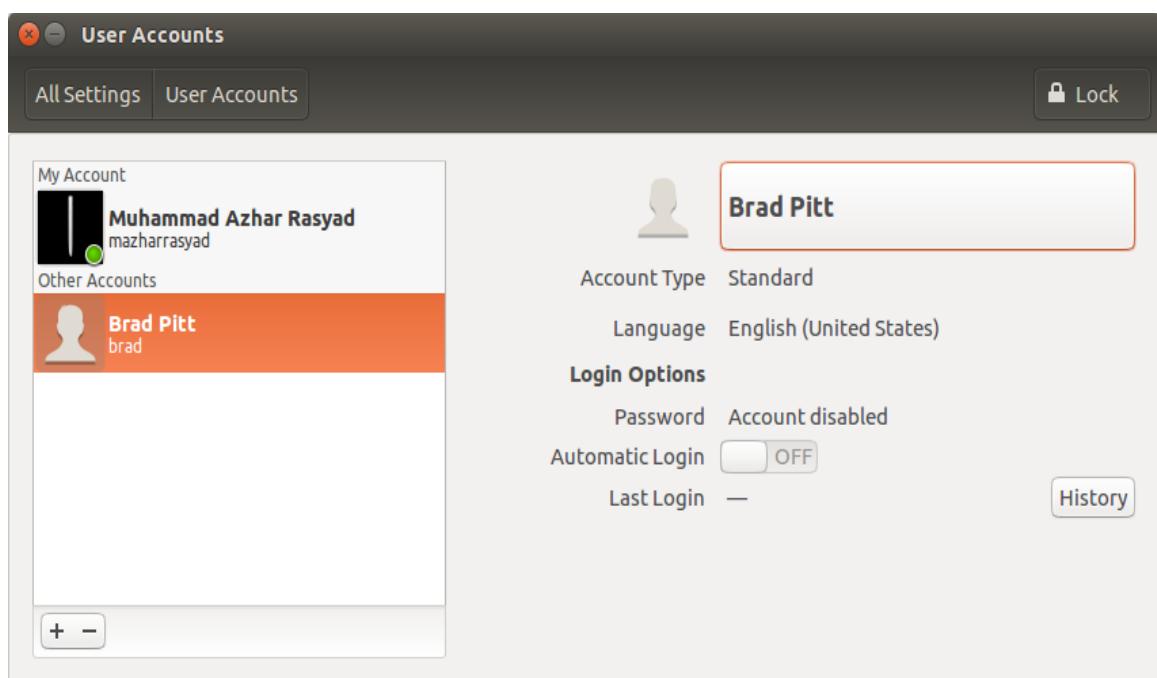
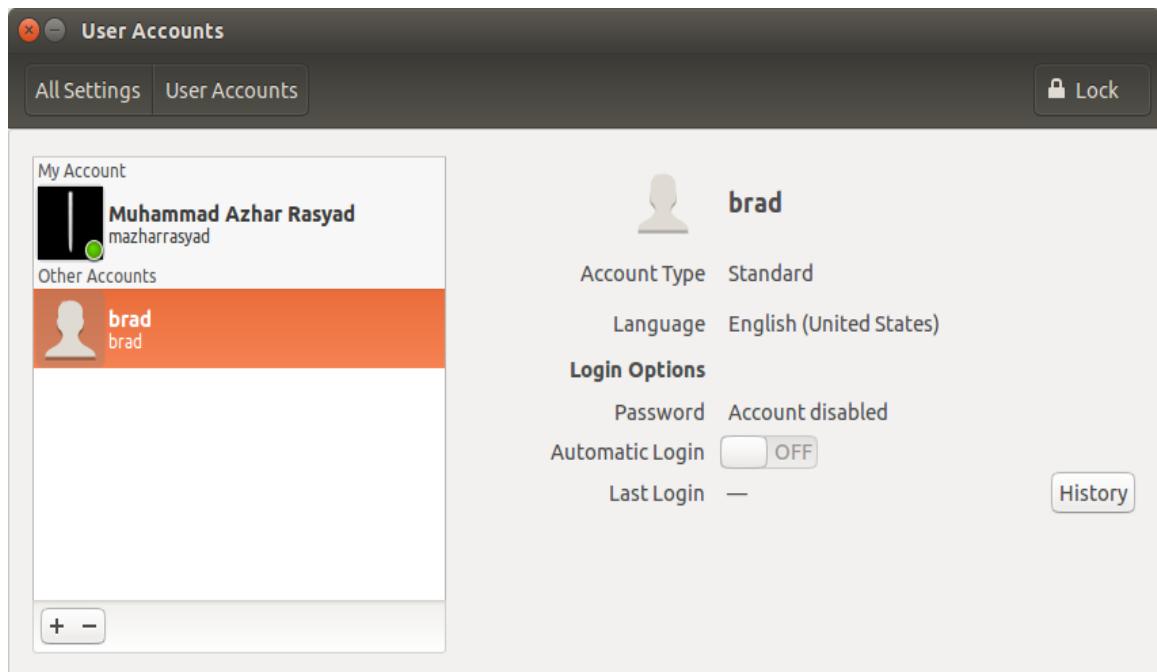
Tuliskan perintah di terminal untuk mengubah user john di atas menjadi user brad demikian pula data yang ada di direktori homenya dipindahkan ke /home/brad. Hasil perubahannya seperti di bawah ini:

```
$ grep brad /etc/passwd
```

```
brad:x:1015:1015:Brad Pitt:/home/brad:/bin/bash
```

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ grep john /etc/passwd
john:x:1001:1005::/home/john:/bin/bash
mazharryad@mazharryad:~$
```

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ sudo usermod -l brad john
mazharryad@mazharryad:~$
```



```
mazharryad@mazharryad:~$ grep brad /etc/passwd  
brad:x:1001:1005:Brad Pitt:/home/john:/bin/bash  
mazharryad@mazharryad:~$
```

## **Kesimpulan**

Jadi pada sistem operasi linux user dapat menjadi administrator yang dapat melakukan administrasi sistem dan administrasi pengguna. Administrasi sistem yaitu mengatur sistem yang dijalankan pada sebuah komputer dengan menggunakan superuser untuk mengaksesnya mulai dari menage proses, monitoring sistem sedangkan administrasi pengguna yaitu mengatur user dan group seperti menambah, menghapus, dan mengubah suatu user atau group.