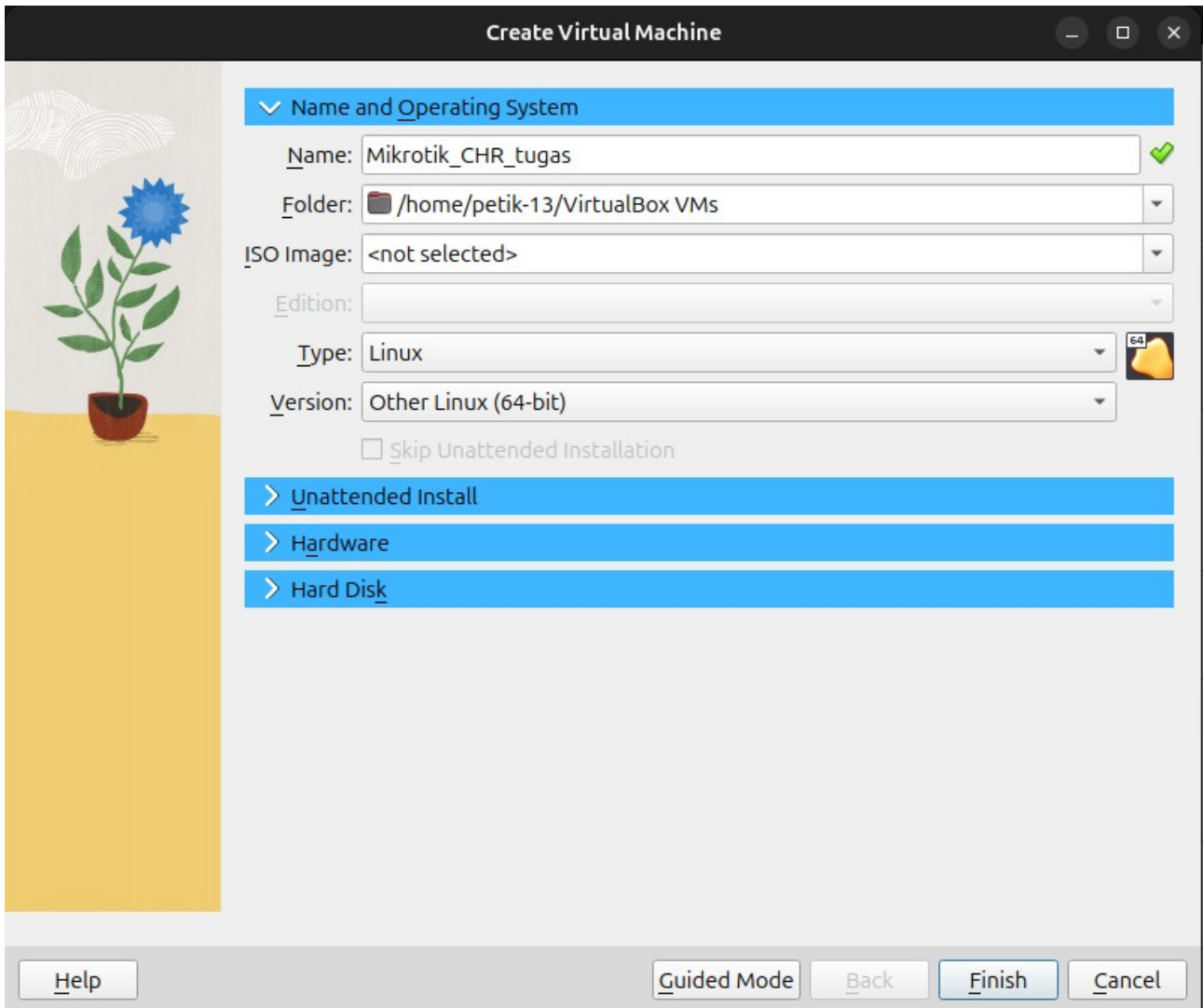


Tugas CHR Mikrotik

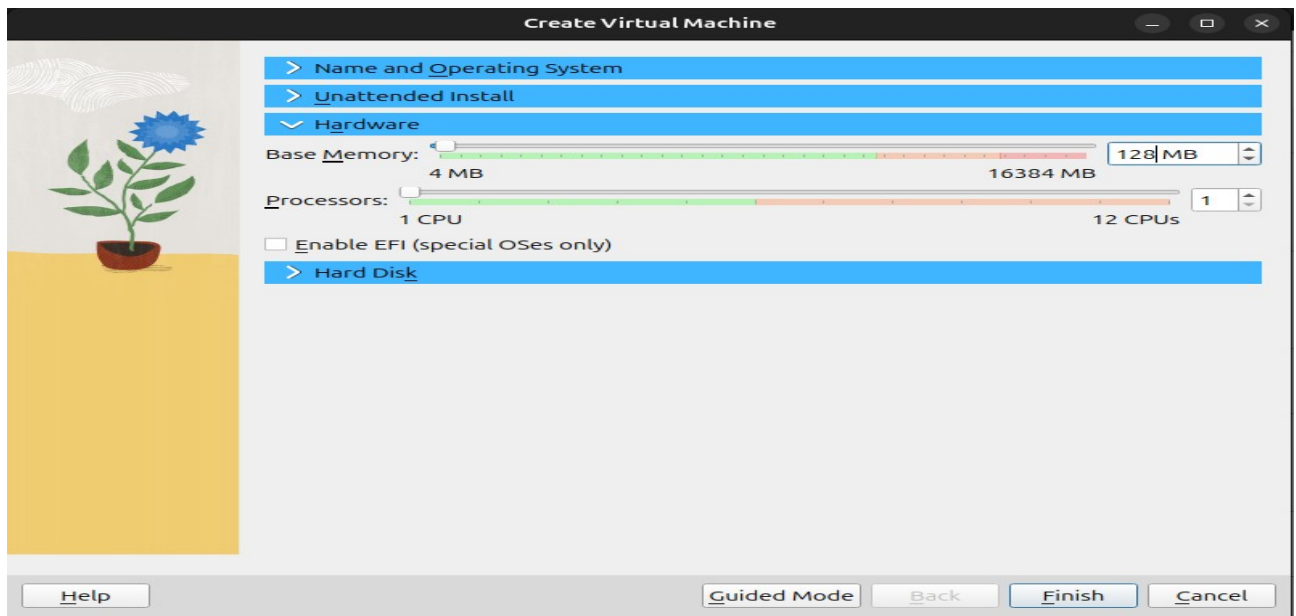
Pertama instalasi dulu mikrotik di vm langkah-langkahnya sebagai berikut

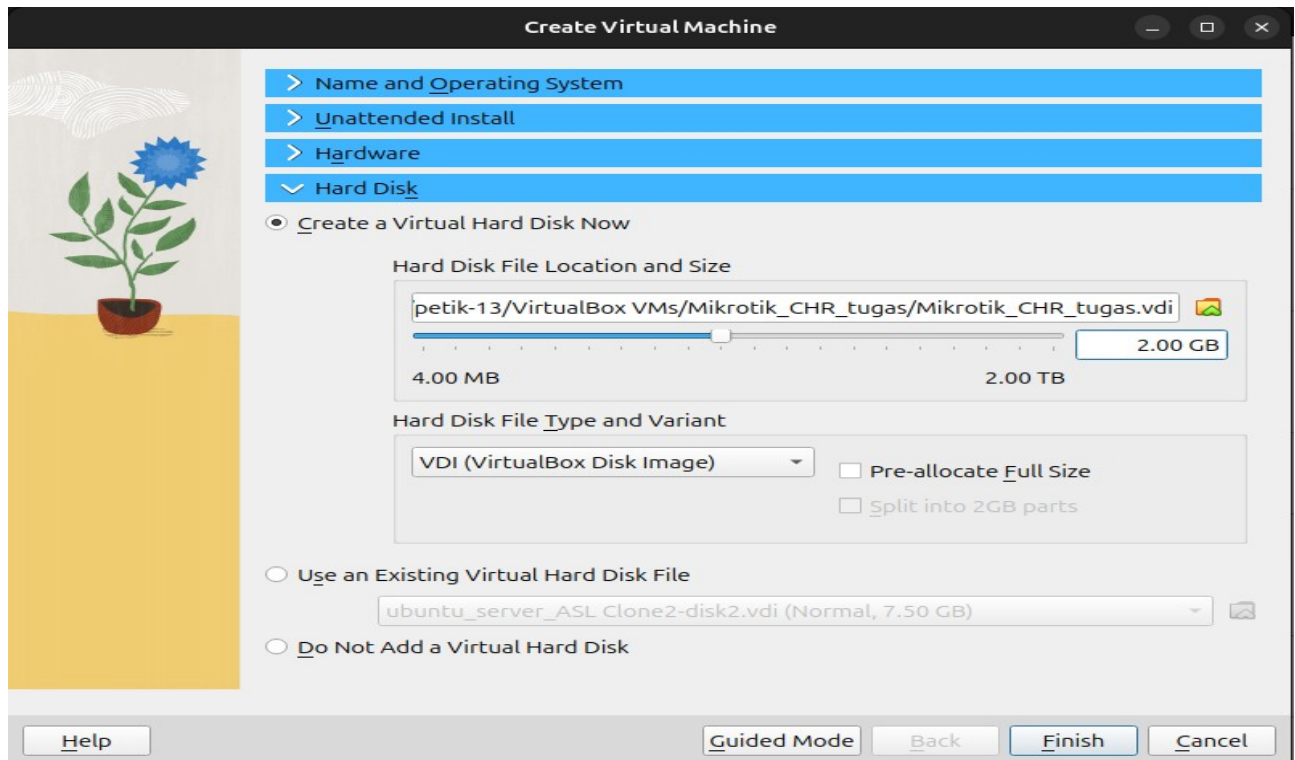
1. buat vm baru dengan nama sesuai dengan kebutuhan (opsional), untuk tipe dan versionnya saya menggunakan tipe linux, dan version other linux(64-bit) bisa di lihat seperti gambar di bawah ini



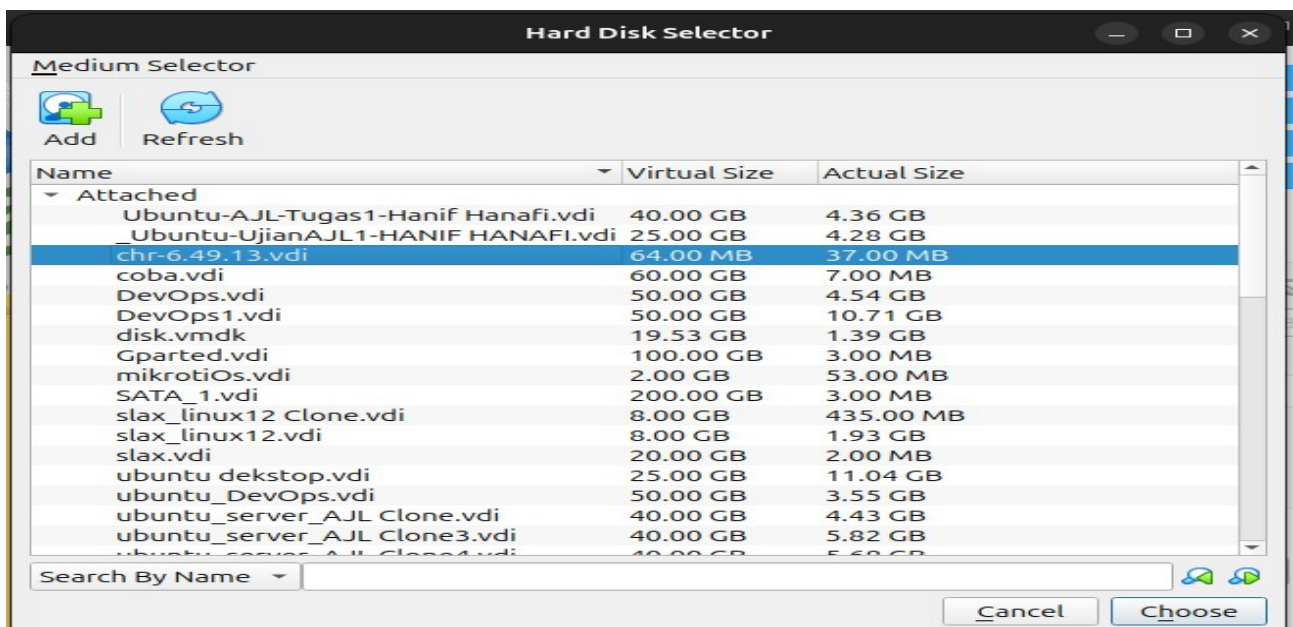
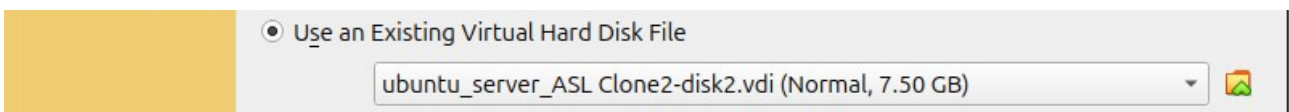
2. untuk harwarenya saya menggunakan 128 MB (opsional)

3. dan untuk hardisknya saya menggunakan 2.00GB (opsional)

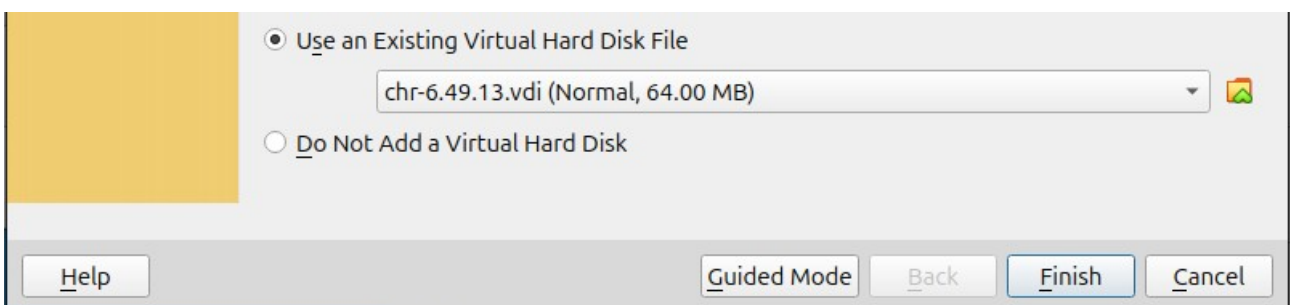




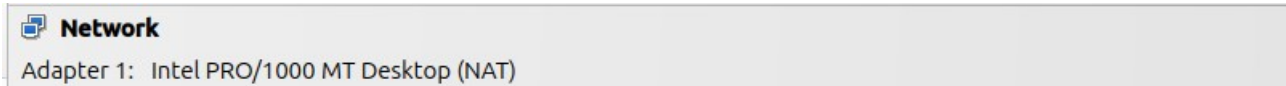
di bagian Use an Existing itu menggunakan chr-6.49.13 vdi pastikan ini sudah di download terlebih dahulu, anda bisa mendownloadnya di mikrotik.com silahkan cari di browser



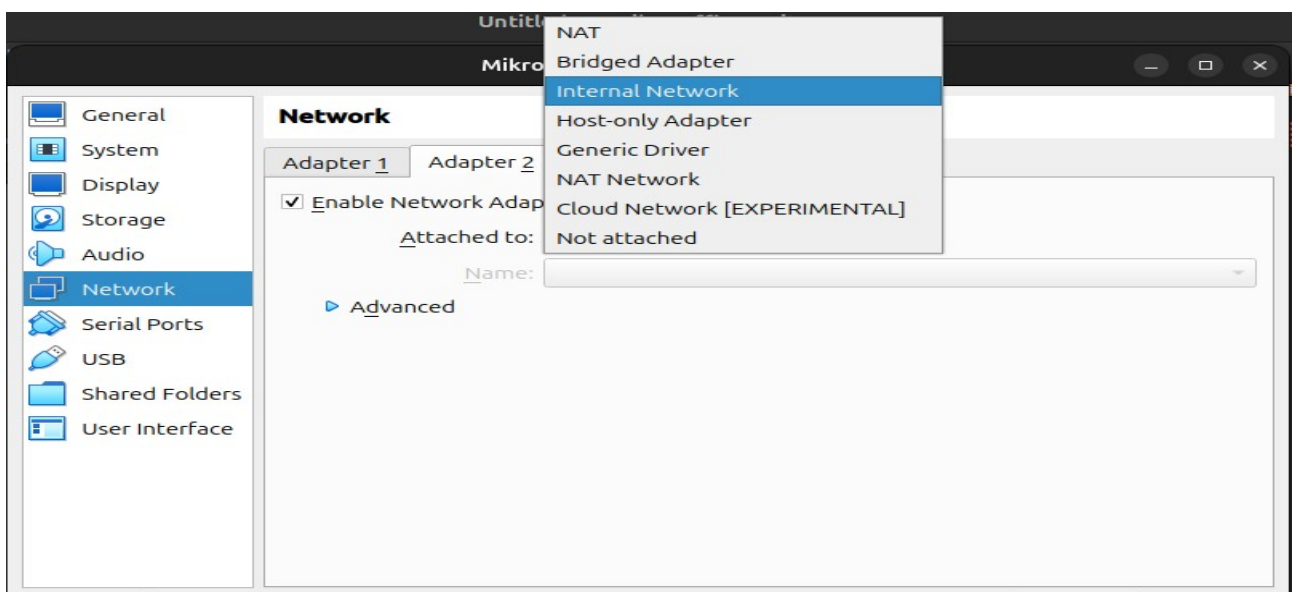
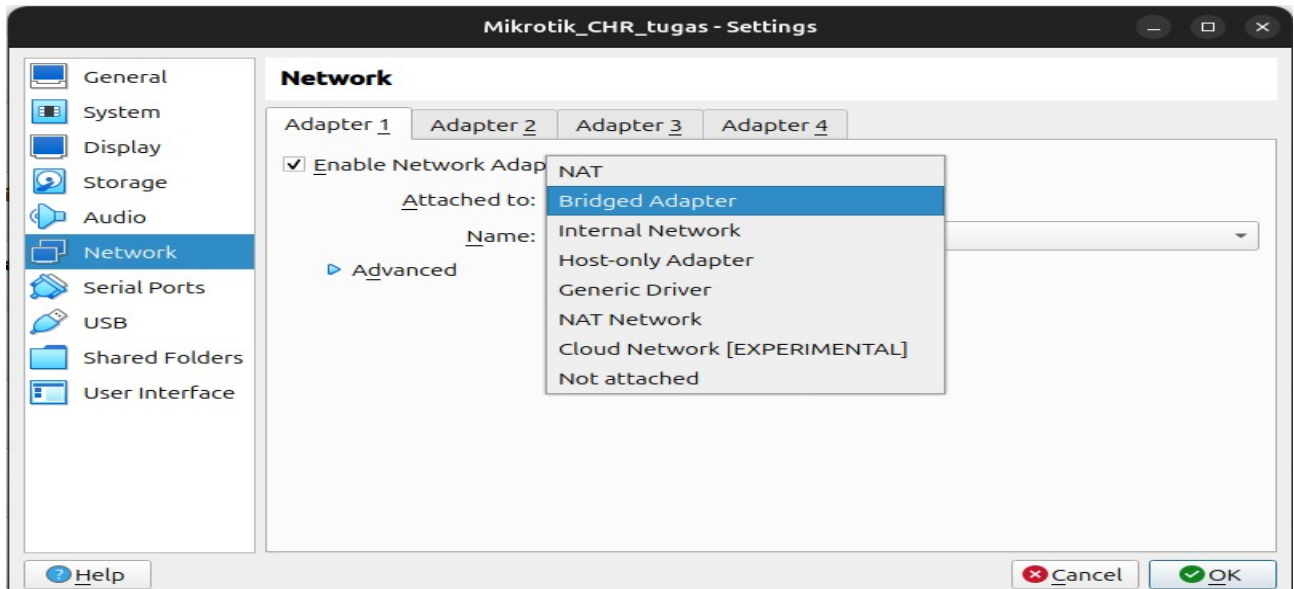
lalu finish



4.mengatur networknya pastikan networknya di atur sebelum dijalankan



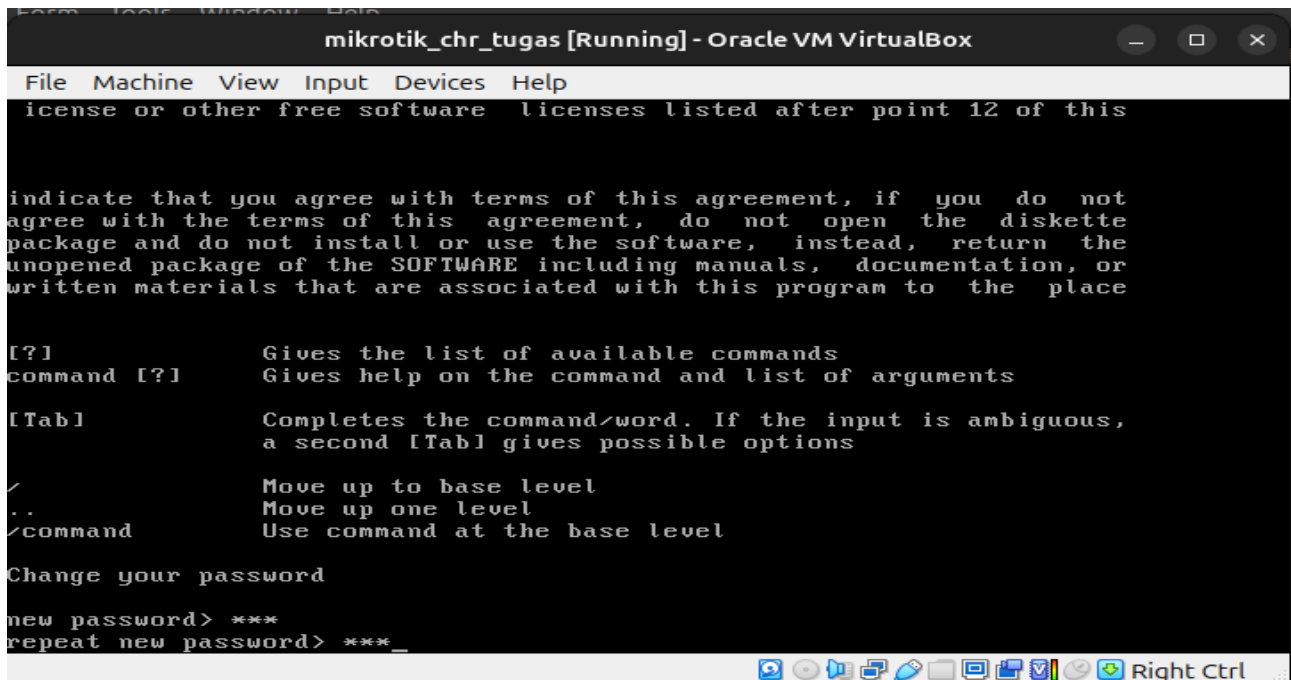
adapter 1 pilih bridged adapter dan untuk adapter 2-4 itu internal network



5.lalu jalankan VM-nya dan tampilannya akan seperti ini



6. buat user mikrotiknya di sini saya kasih nama admin lalu enter untuk passwordnya buat password baru dengan cara enter lagi nanti akan ada new password nah di situ tinggal masukan password baru anda



```
mikrotik_chr_tugas [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
license or other free software licenses listed after point 12 of this

indicate that you agree with terms of this agreement, if you do not
agree with the terms of this agreement, do not open the diskette
package and do not install or use the software, instead, return the
unopened package of the SOFTWARE including manuals, documentation, or
written materials that are associated with this program to the place

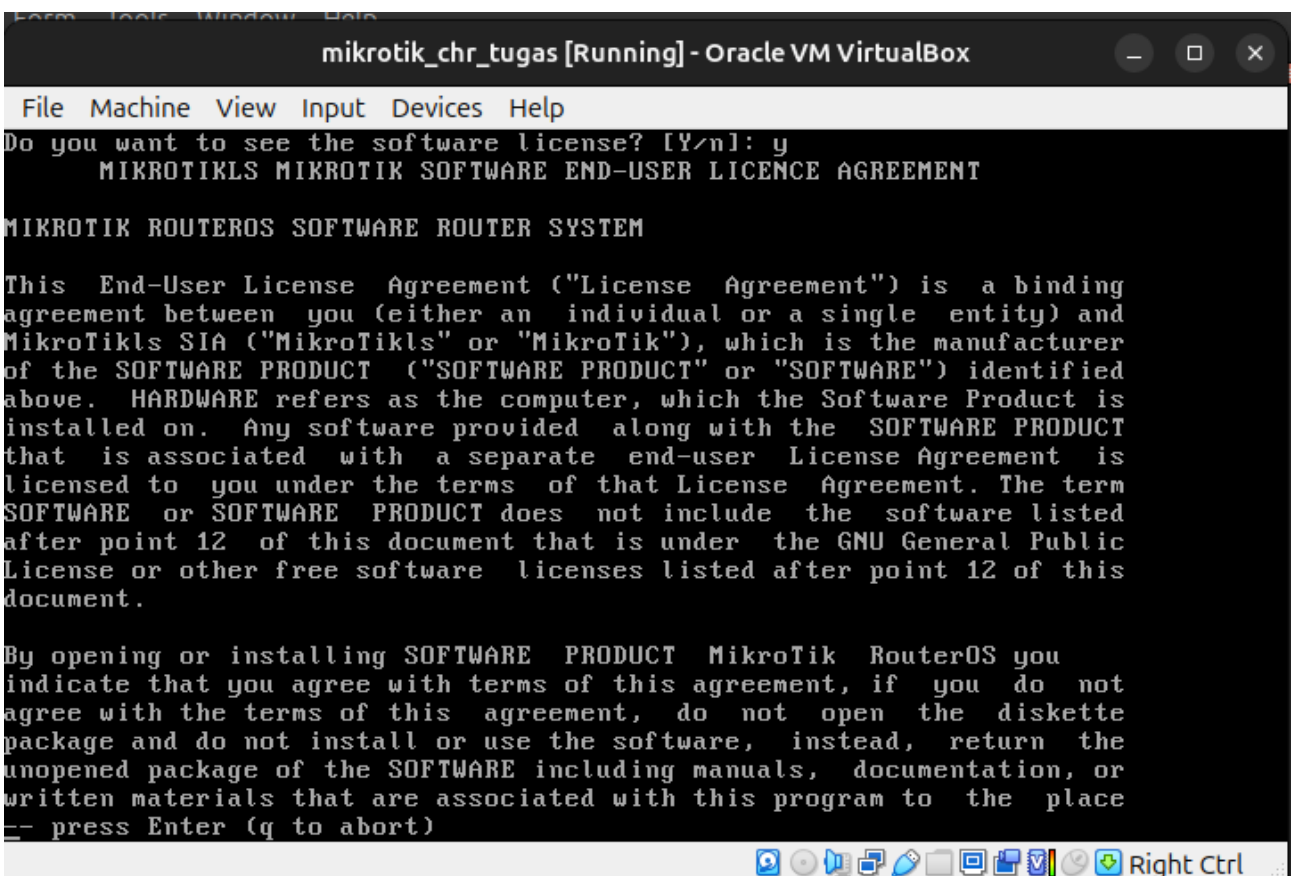
[?] Gives the list of available commands
command [?] Gives help on the command and list of arguments

[Tab] Completes the command/word. If the input is ambiguous,
a second [Tab] gives possible options

/ Move up to base level
.. Move up one level
/command Use command at the base level

Change your password
new password> ***
repeat new password> ***_
```

enter +y+q



```
mikrotik_chr_tugas [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Do you want to see the software license? [Y/n]: y
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MIKROTIK ROUTEROS SOFTWARE ROUTER SYSTEM

This End-User License Agreement ("License Agreement") is a binding
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MikroTikls SIA ("MikroTikls" or "MikroTik"), which is the manufacturer
of the SOFTWARE PRODUCT ("SOFTWARE PRODUCT" or "SOFTWARE") identified
above. HARDWARE refers as the computer, which the Software Product is
installed on. Any software provided along with the SOFTWARE PRODUCT
that is associated with a separate end-user License Agreement is
licensed to you under the terms of that License Agreement. The term
SOFTWARE or SOFTWARE PRODUCT does not include the software listed
after point 12 of this document that is under the GNU General Public
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By opening or installing SOFTWARE PRODUCT MikroTik RouterOS you
indicate that you agree with terms of this agreement, if you do not
agree with the terms of this agreement, do not open the diskette
package and do not install or use the software, instead, return the
unopened package of the SOFTWARE including manuals, documentation, or
written materials that are associated with this program to the place
-- press Enter (q to abort)
```

ini untuk tampilannya seperti ini

```
Password changed
[admin@MikroTik] >
```



Konfigurasi IP Mikrotik

1. untuk konfigurasi IP Mikrotik ada beberapa yang harus di konfigurasi

- **IP Address di ether1: Menuju ke Internet (IP Address PeTIK) – 192.168.4.X/24 (DHCP-Client)**

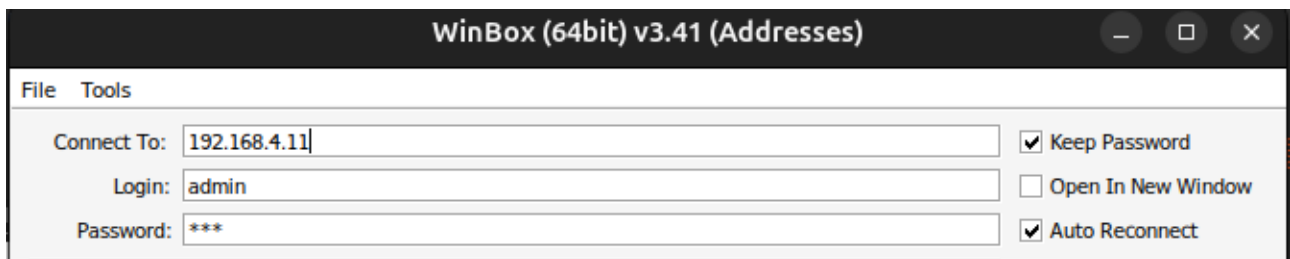
ketika perintah ip address print di mikrotik yang ada di vm anda

```
[admin@MikroTik] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
# ADDRESS NETWORK INTERFACE
0 D 192.168.4.11/24 192.168.4.0 ether1
[admin@MikroTik] >
```

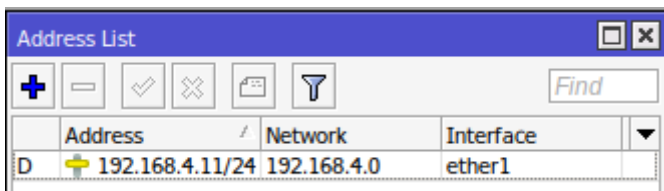
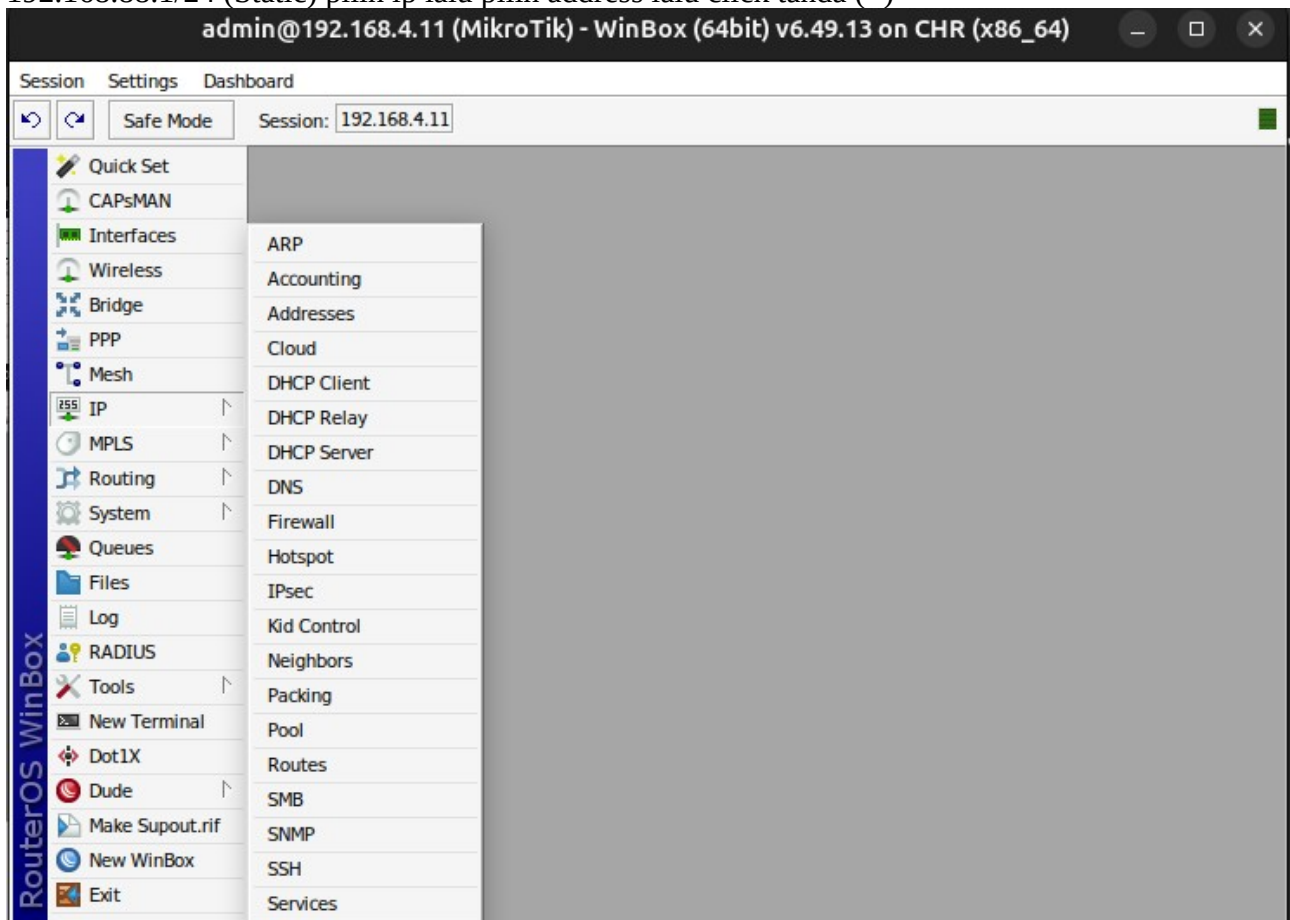
dan ini adalah ip address ether1 yang saya dapatkan yaitu “192.168.4.11/24”

- **IP Address di ether2: Menuju ke Client(IP Address LAN) – 192.168.88.1/24 (Static)**

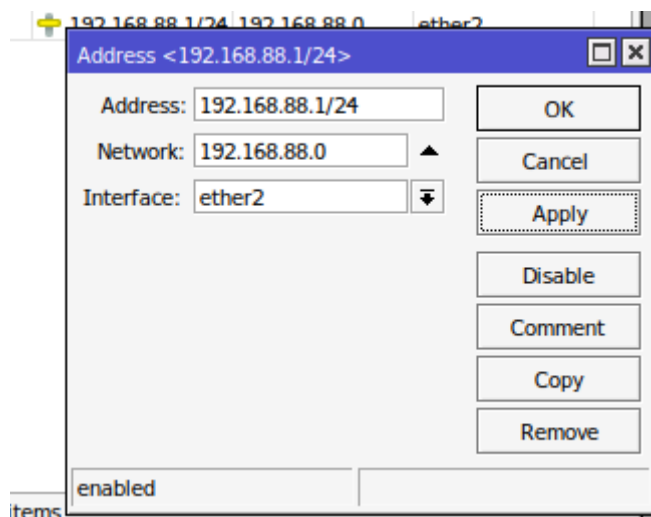
pertama yang harus di lakukan buka winbox pastikan anda sudah instal winboxnya lalu masukan ip yang kita dapat dan password yang kita buat tadi supaya bisa masuk atau login lalu conect



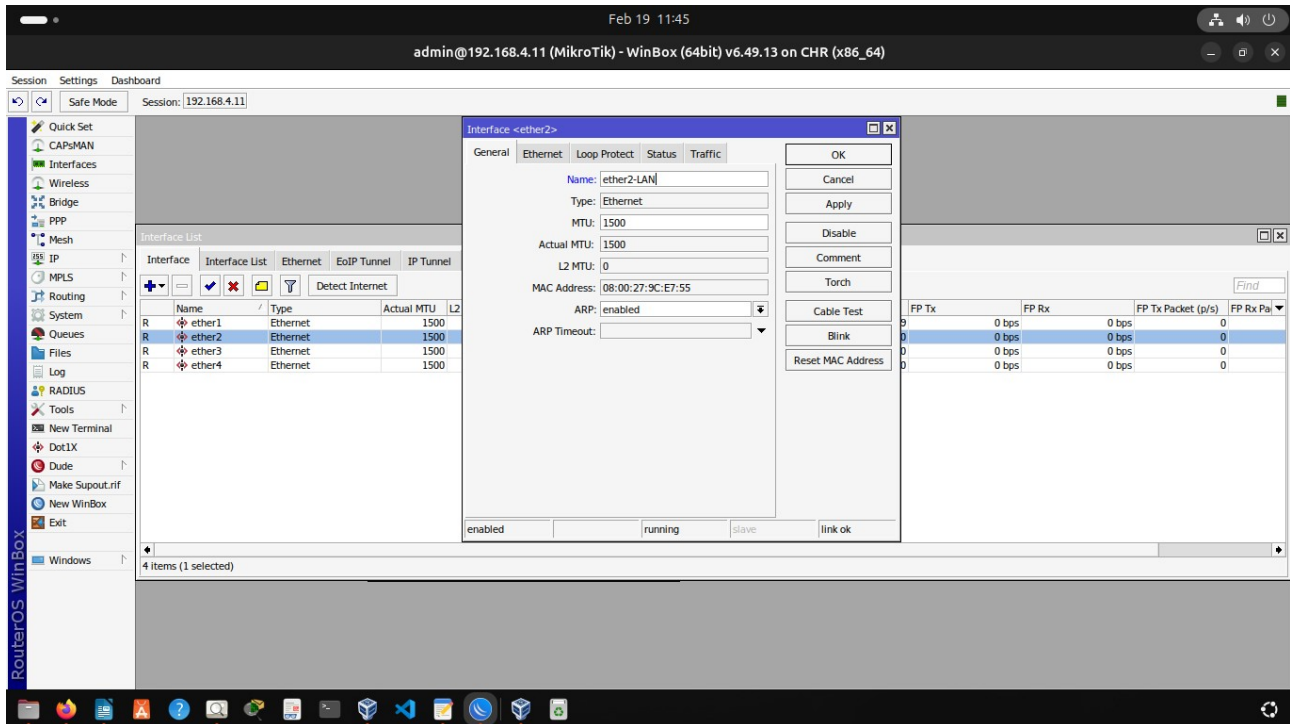
untuk konfigurasi yang seperti ini IP Address di ether2: Menuju ke Client(IP Address LAN) – 192.168.88.1/24 (Static) pilih ip lalu pilih address lalu click tanda (+)



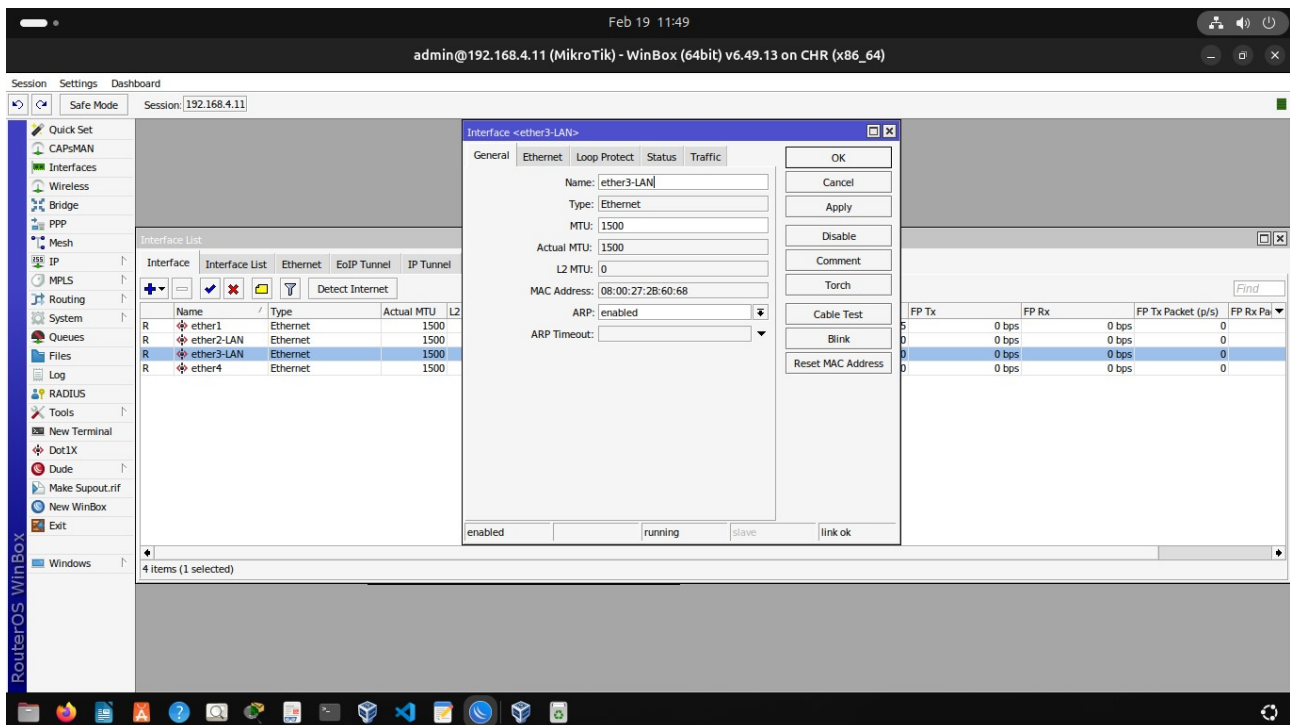
masukan ip address yang ini anda tambahkan misal saya di sini memasukan ip-nya 192.168.88.1/24 dan ethernetnya silahkan pilih juga sesuai kebutuhan anda di sini saya untuk etehr-nya yaitu ether2 lalu apply dan ok



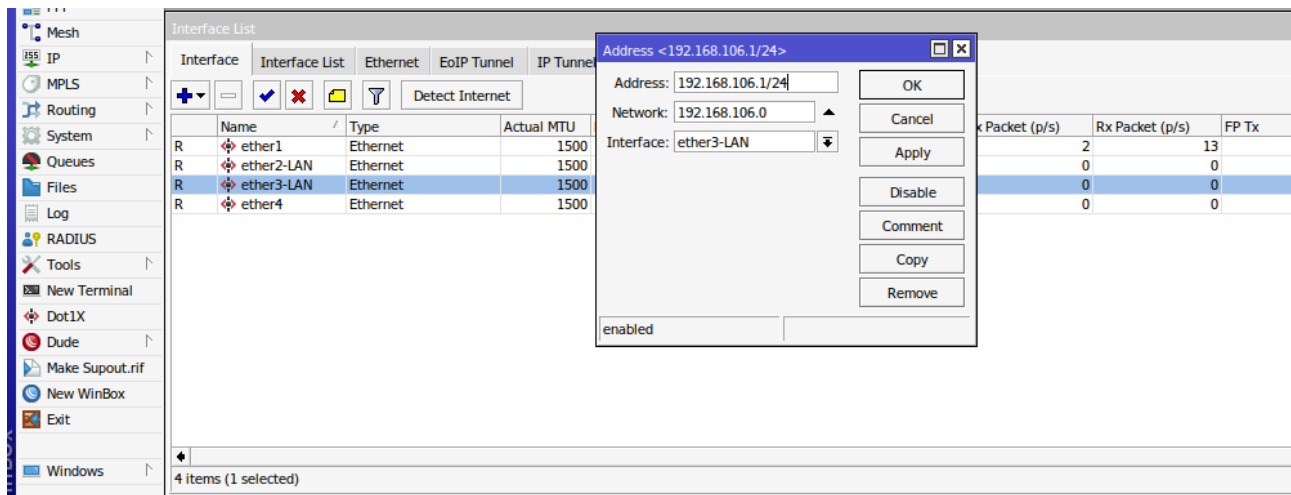
untuk mengubah jadi LAN pilih interfaces click 2x di bagian ether yang mau di ubah misal saya ether2 lalu ok



- **IP Address di ether3: Menuju ke Client(IP Address LAN) – 192.168.X.1/24 (Static)**
ubah dulu namanya di ether3 menjadi LAN interfaces lalu click 2x ubah nama lalu ok



lalu masukan ip address (static) untuk ether3 pilih ip, address, pilih ether3 lalu tambahkan ip, apply + ok

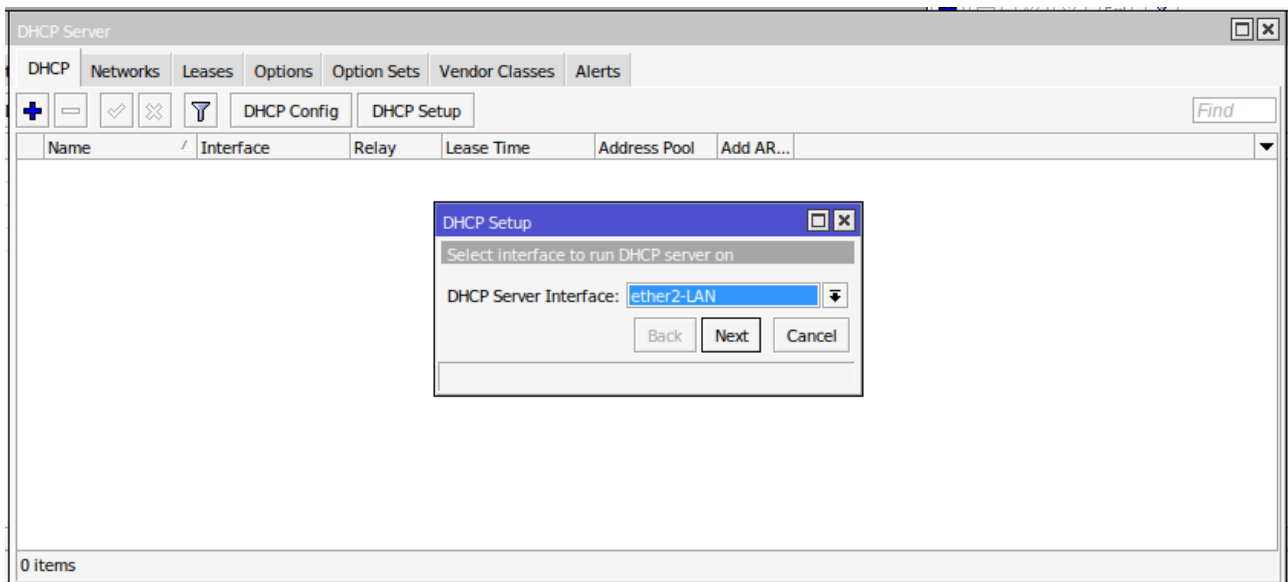


Konfigurasi Internet Connection Sharing

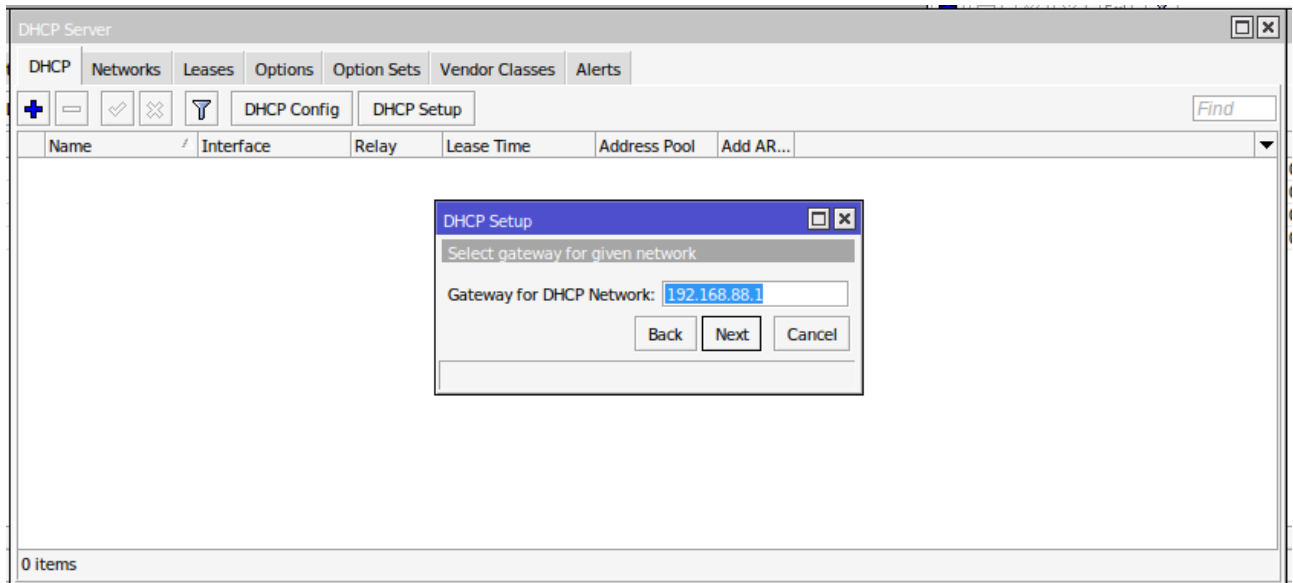
langkah pertama adalah pilih ip lalu DHCP server, di DHCP Server interfaces ada pilihan ether silahkan pilih sesuai kebutuhan



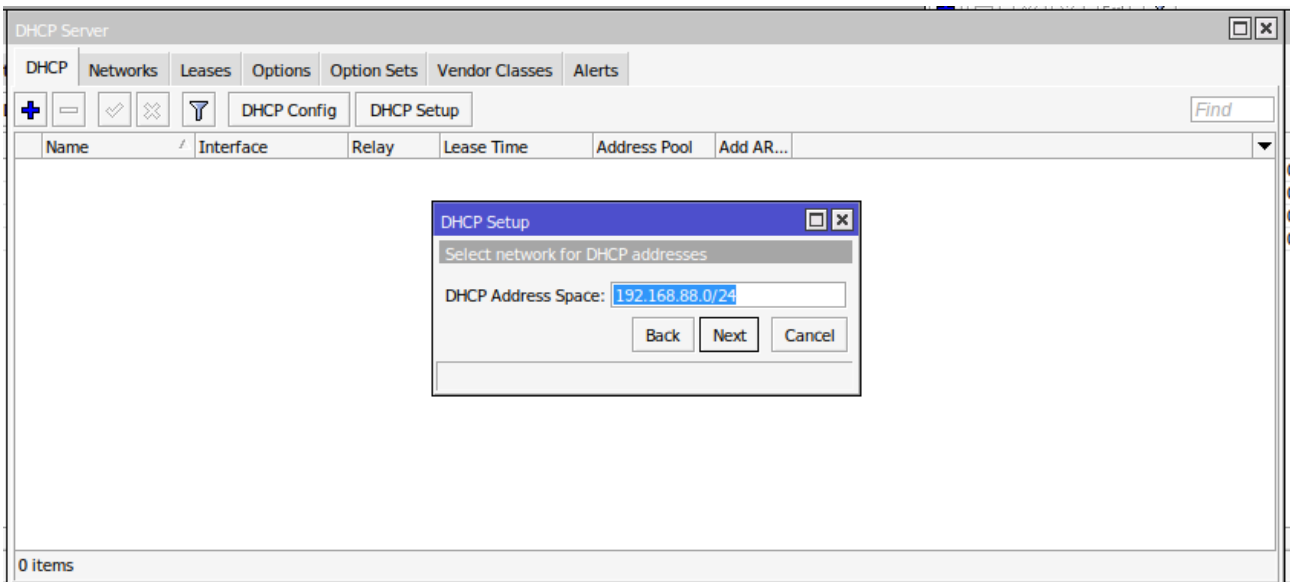
ether2 lalu next



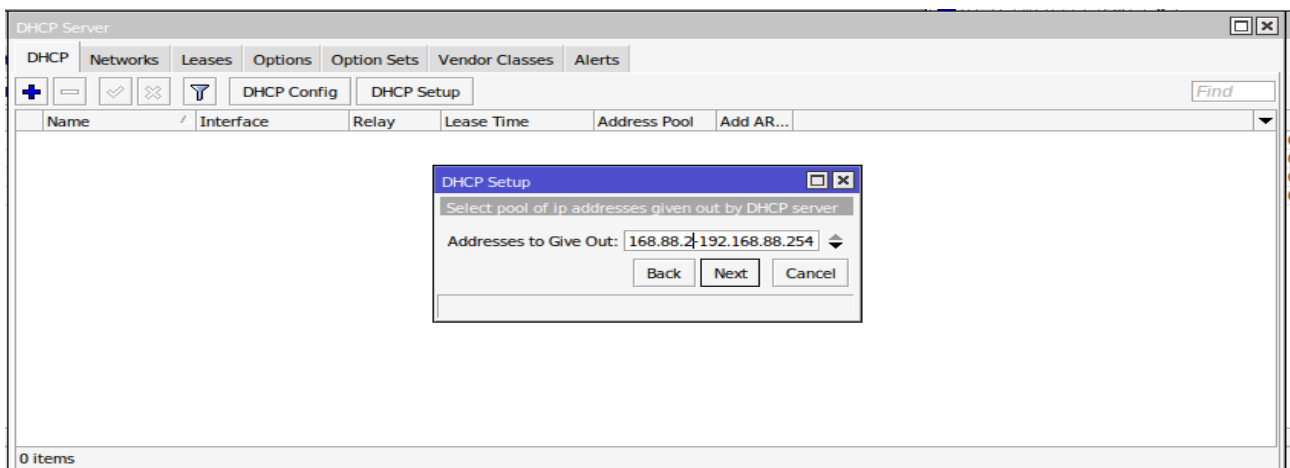
next



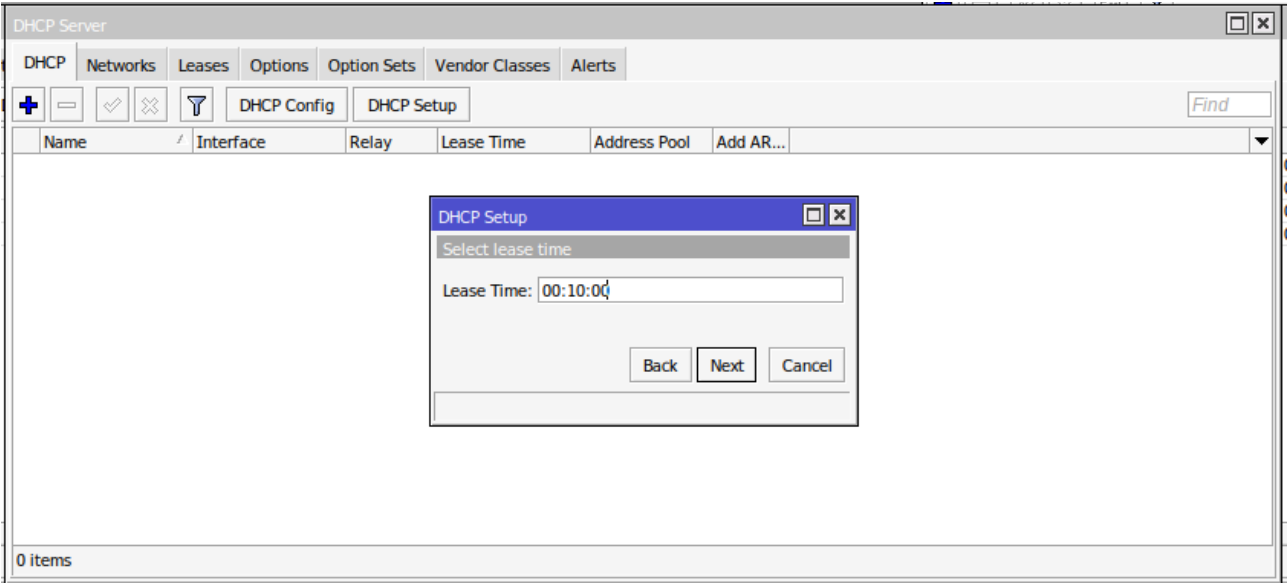
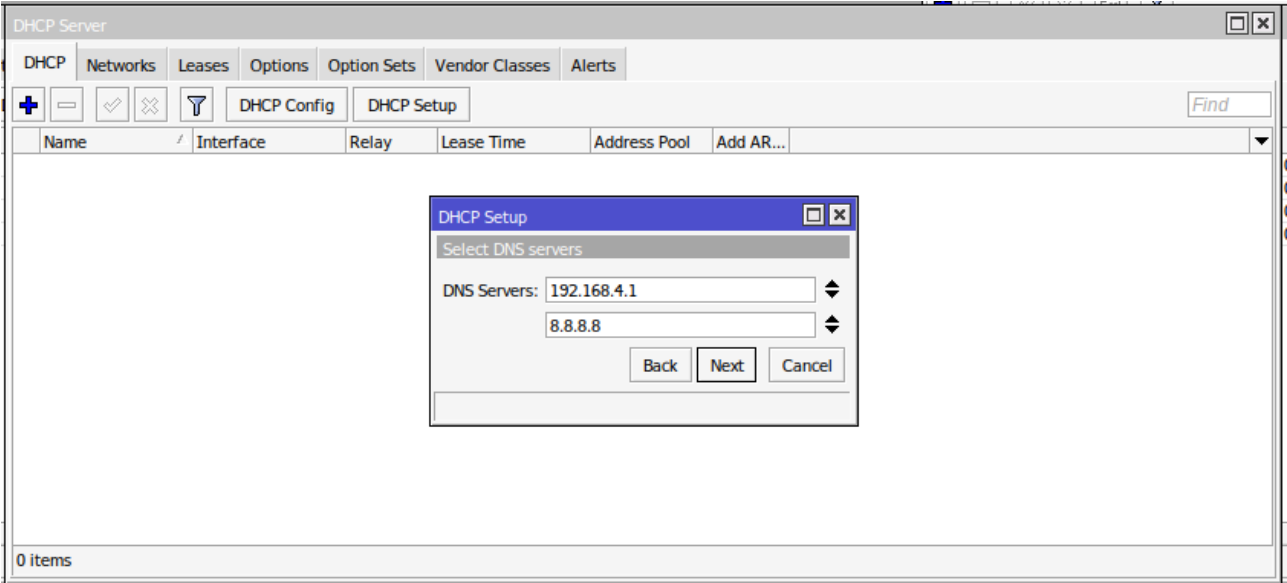
next



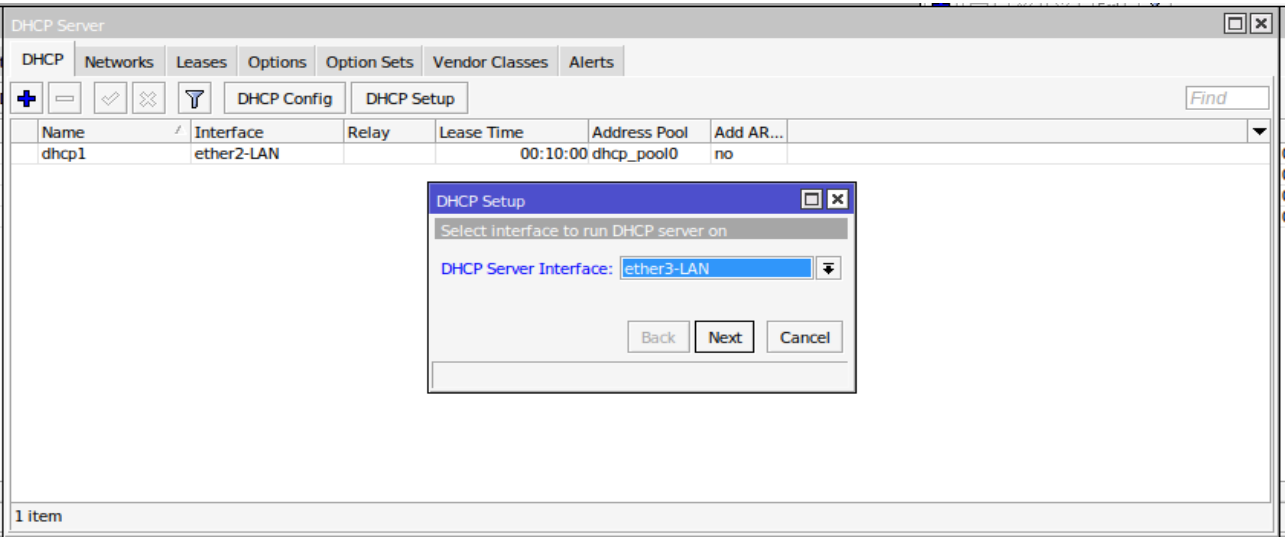
silahkan tentaukan dari ip berapa sampai berapa sesuai yang anda butuhkan,kalau saya disini 192.168.88.2-192.168.88.254

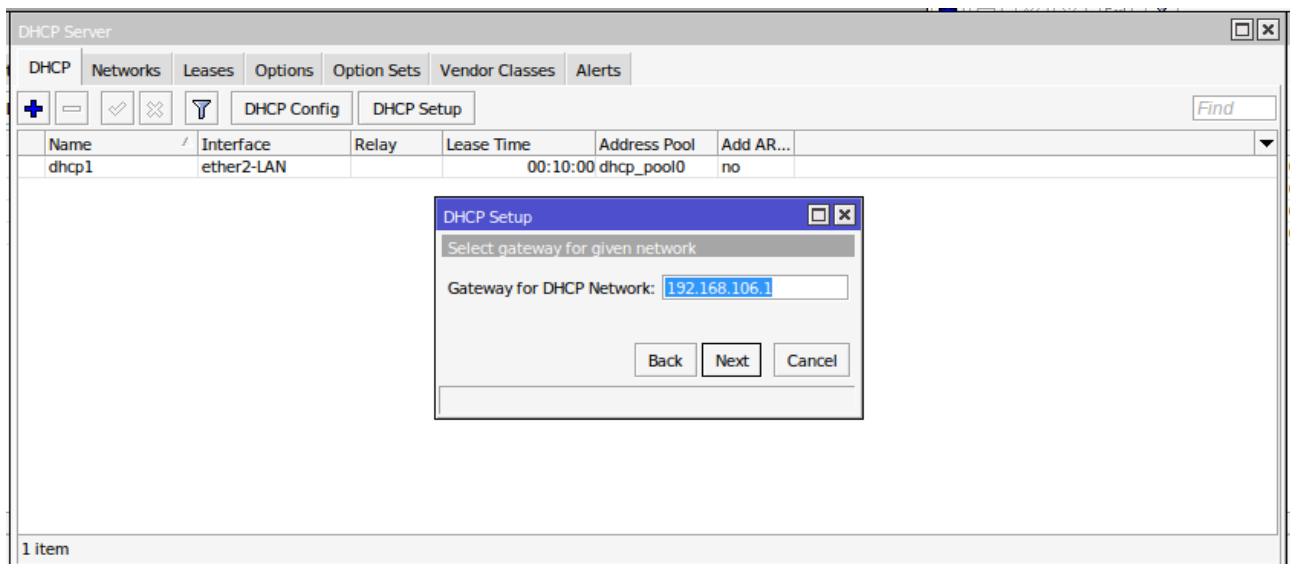
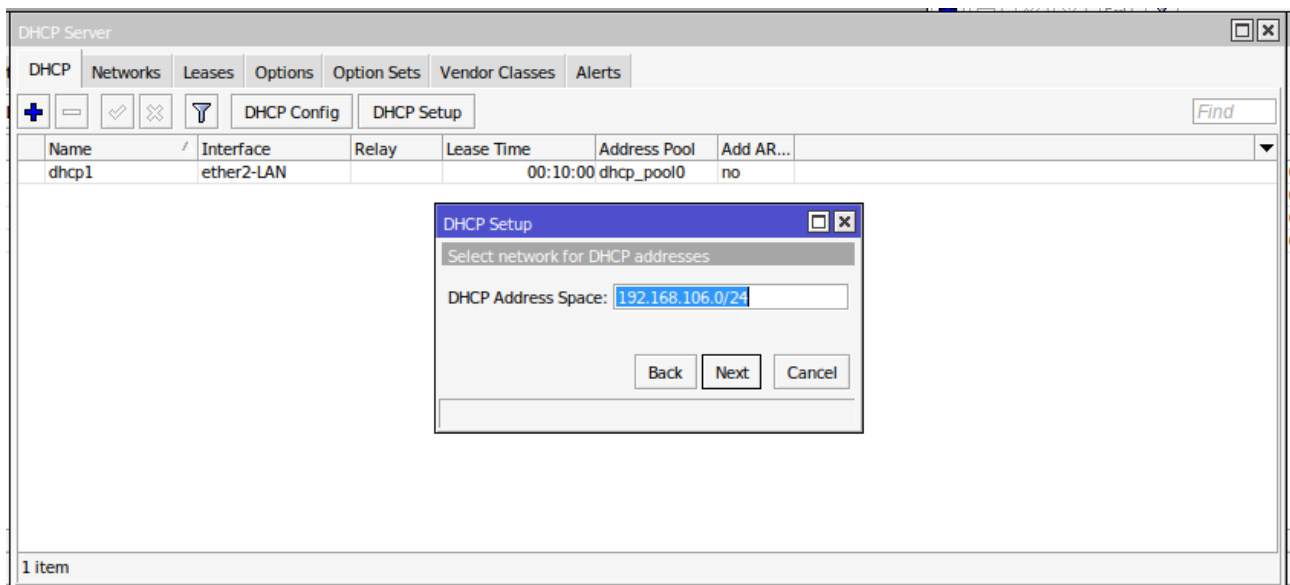


ini DNS Serversnya

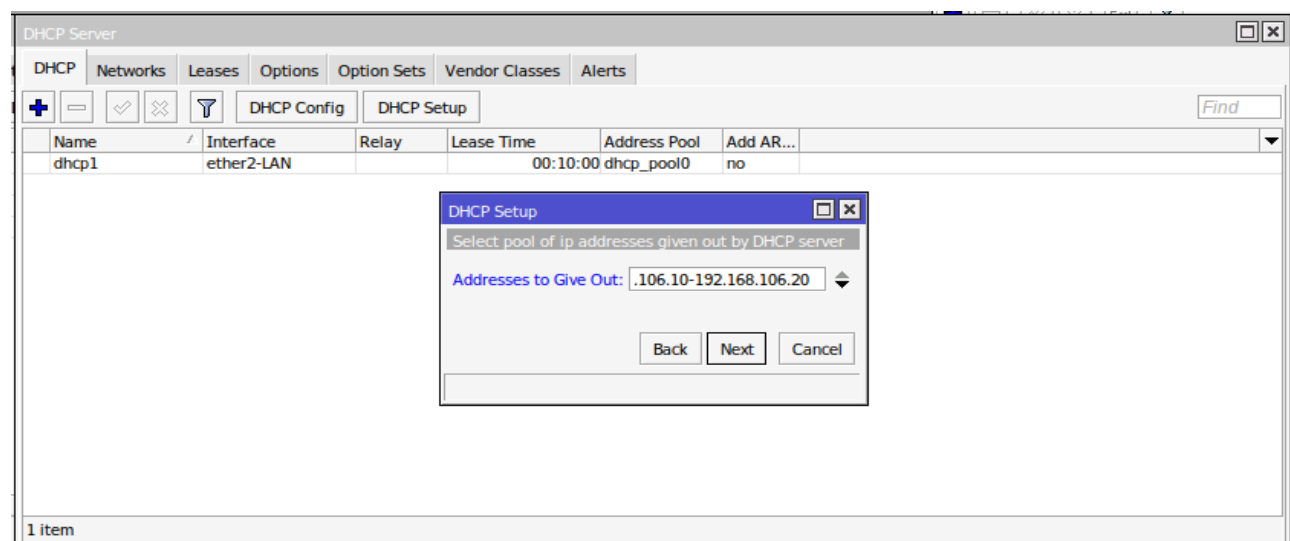


ether3





silahkan tentaukan dari ip berapa sampai berapa sesuai yang anda butuhkan,kalau saya disini 192.168.106.10-192.168.106.20



DHCP Server

DHCP

Networks

Leases

Options

Option Sets

Vendor Classes

Alerts

+

-

✓

✗

⌵

DHCP Config

DHCP Setup

Find

Name	Interface	Relay	Lease Time	Address Pool	Add AR...
dhcp1	ether2-LAN		00:10:00	dhcp_pool0	no

DHCP Setup

Select DNS servers

DNS Servers: 192.168.4.1

8.8.8.8

Back

Next

Cancel

1 item

DHCP Server

DHCP

Networks

Leases

Options

Option Sets

Vendor Classes

Alerts

+

-

✓

✗

⌵

DHCP Config

DHCP Setup

Find

Name	Interface	Relay	Lease Time	Address Pool	Add AR...
dhcp1	ether2-LAN		00:10:00	dhcp_pool0	no

DHCP Setup

Select lease time

Lease Time: 00:10:00

Back

Next

Cancel

1 item

DHCP Server

DHCP

Networks

Leases

Options

Option Sets

Vendor Classes

Alerts

+

-

✓

✗

⌵

DHCP Config

DHCP Setup

Find

Name	Interface	Relay	Lease Time	Address Pool	Add AR...
dhcp1	ether2-LAN		00:10:00	dhcp_pool0	no
dhcp2	ether3-LAN		00:10:00	dhcp_pool1	no

2 items

hasil nya dengan mendapatkan ip 192.168.106.20 di client dan jaringan berjalan dengan lancar

```
xterm
root@slax:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: ip6tnl0@NONE: <NOARP> mtu 1452 qdisc noop state DOWN group default qlen 1000
    link/tunnel6 :: brd :: permaddr e6a7:b845:6ad5::
3: enp0s3: <BROADCAST,MULTICAST,DYNAMIC,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:1d:3d:13 brd ff:ff:ff:ff:ff:ff
    inet 192.168.106.20/24 brd 192.168.106.255 scope global enp0s3
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe1d:3d13/64 scope link
        valid_lft forever preferred_lft forever
root@slax:~#
```

```
xterm
    link/ether 08:00:27:1d:3d:13 brd ff:ff:ff:ff:ff:ff
    inet 192.168.106.20/24 brd 192.168.106.255 scope global enp0s3
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe1d:3d13/64 scope link
        valid_lft forever preferred_lft forever
root@slax:~# ping 192.168.106.20
PING 192.168.106.20 (192.168.106.20) 56(84) bytes of data.
64 bytes from 192.168.106.20: icmp_seq=1 ttl=64 time=0.050 ms
64 bytes from 192.168.106.20: icmp_seq=2 ttl=64 time=0.021 ms
64 bytes from 192.168.106.20: icmp_seq=3 ttl=64 time=0.058 ms
64 bytes from 192.168.106.20: icmp_seq=4 ttl=64 time=0.021 ms
64 bytes from 192.168.106.20: icmp_seq=5 ttl=64 time=0.058 ms
64 bytes from 192.168.106.20: icmp_seq=6 ttl=64 time=0.020 ms
64 bytes from 192.168.106.20: icmp_seq=7 ttl=64 time=0.022 ms
64 bytes from 192.168.106.20: icmp_seq=8 ttl=64 time=0.020 ms
64 bytes from 192.168.106.20: icmp_seq=9 ttl=64 time=0.062 ms
64 bytes from 192.168.106.20: icmp_seq=10 ttl=64 time=0.022 ms
64 bytes from 192.168.106.20: icmp_seq=11 ttl=64 time=0.023 ms
64 bytes from 192.168.106.20: icmp_seq=12 ttl=64 time=0.022 ms
64 bytes from 192.168.106.20: icmp_seq=13 ttl=64 time=0.023 ms
64 bytes from 192.168.106.20: icmp_seq=14 ttl=64 time=0.062 ms
64 bytes from 192.168.106.20: icmp_seq=15 ttl=64 time=0.023 ms
64 bytes from 192.168.106.20: icmp_seq=16 ttl=64 time=0.062 ms
```

Konfigurasi Identity

pilih terminal di winbox lalu ketika perintah system identity set name=(nama kalian)

```
Terminal <1>

MMM      MMM      KKK      TTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTT      KKK
MMM MMMM MMM III KKK KKK RRRRRR 000000 TTT III KKK KKK
MMM MM  MMM III KKKKK RRR RRR 000 000 TTT III KKKKK
MMM     MMM III KKK KKK RRRRRR 000 000 TTT III KKK KKK
MMM     MMM III KKK KKK RRR RRR 000000 TTT III KKK KKK

MikroTik RouterOS 6.49.13 (c) 1999-2024      http://www.mikrotik.com/

[?]          Gives the list of available commands
command [?]  Gives help on the command and list of arguments

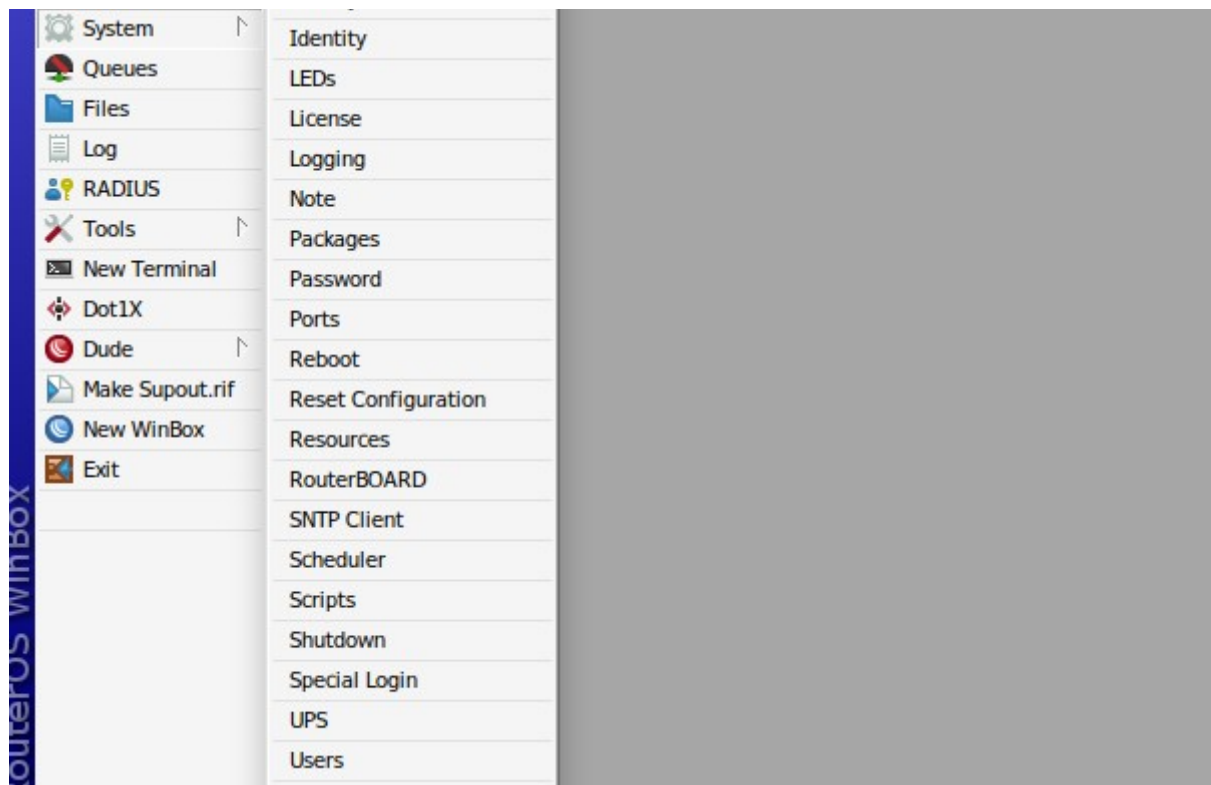
[Tab]        Completes the command/word. If the input is ambiguous,
              a second [Tab] gives possible options

/            Move up to base level
..          Move up one level
/command     Use command at the base level
[admin@MikroTik] > system identity
edit export get print set
[admin@MikroTik] > system identity set name=hanif
[admin@hanif] >
```

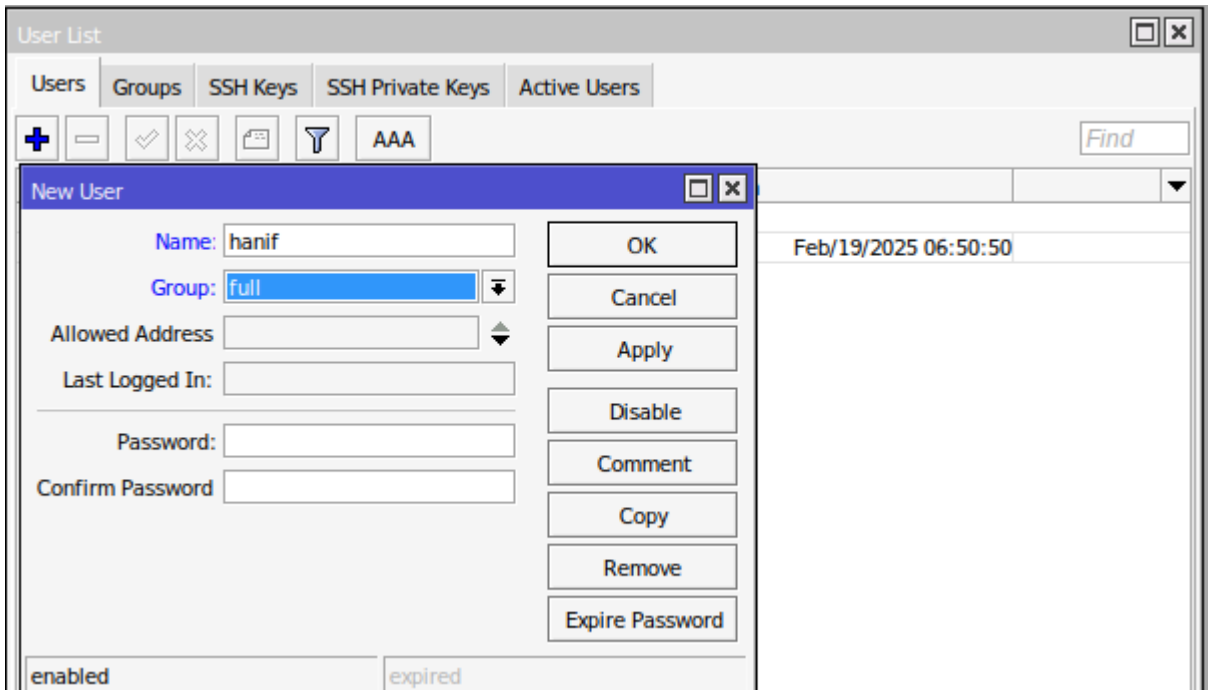
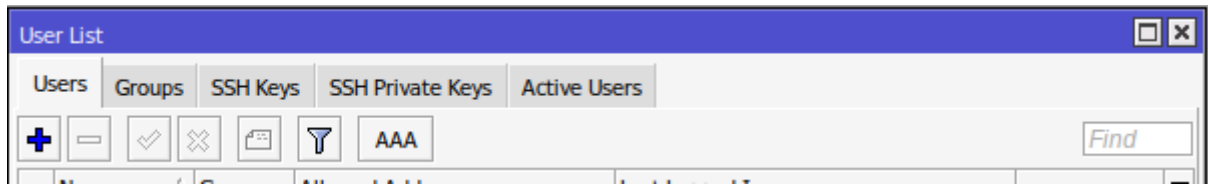
Konfigurasi user

Buat user dengan privilege full

pilih sistem lalu pilih users



click tanda “+” untuk menambah user masukan nama buat user dan group lalu apply,ok



Buat user dengan nama teman dengan privilege read

