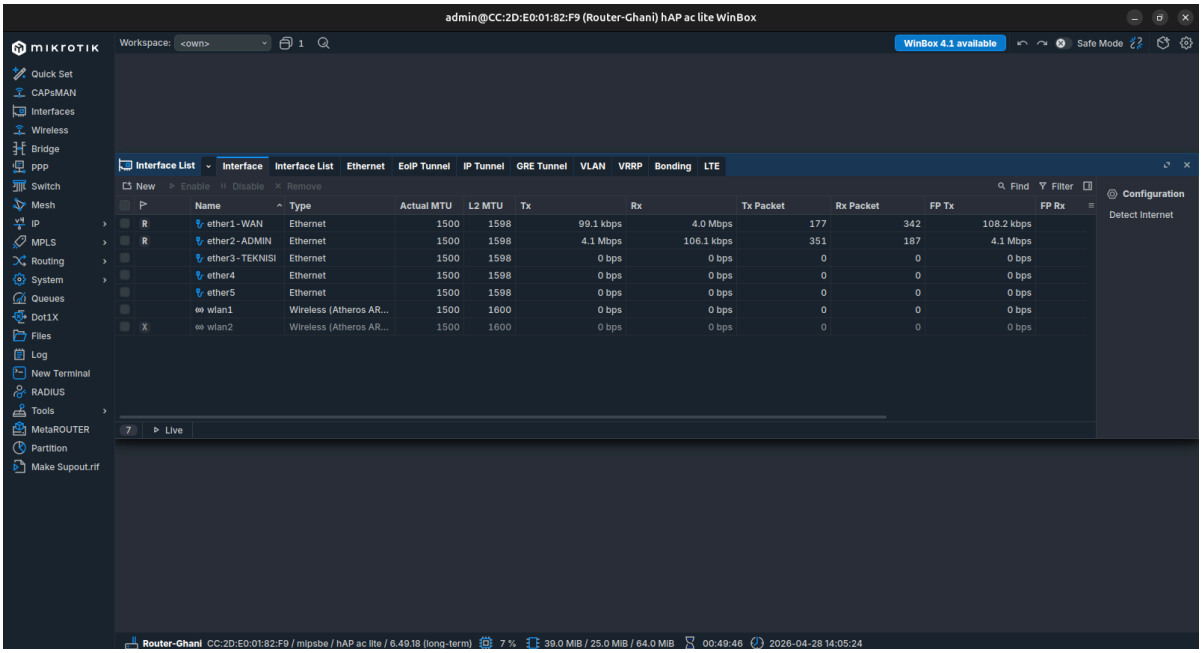
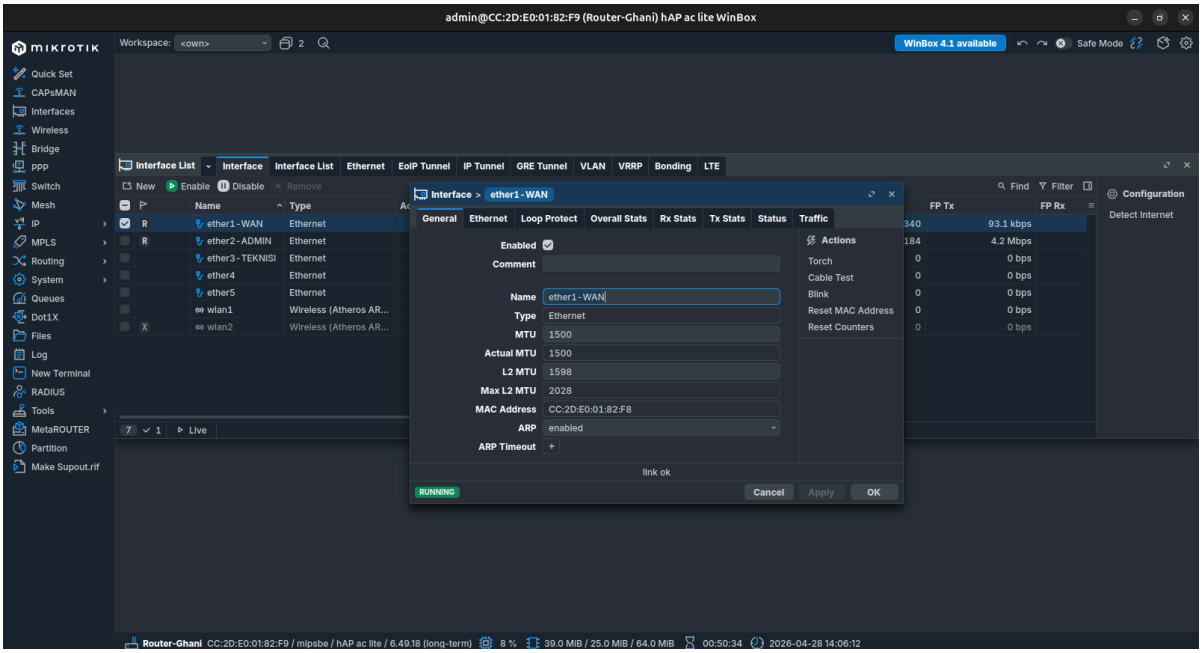
Nama : Muhammad Ghani Setiawan
Kelas : Pengelolaan Sistem Dan Jaringan

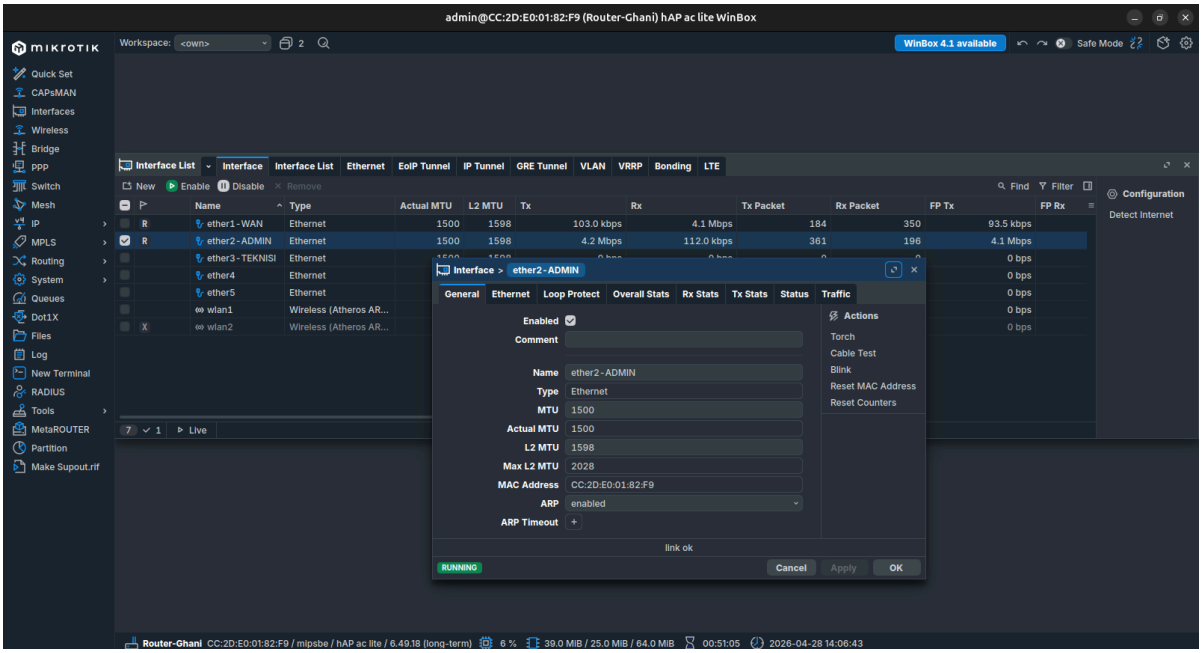
Langkah ke 1

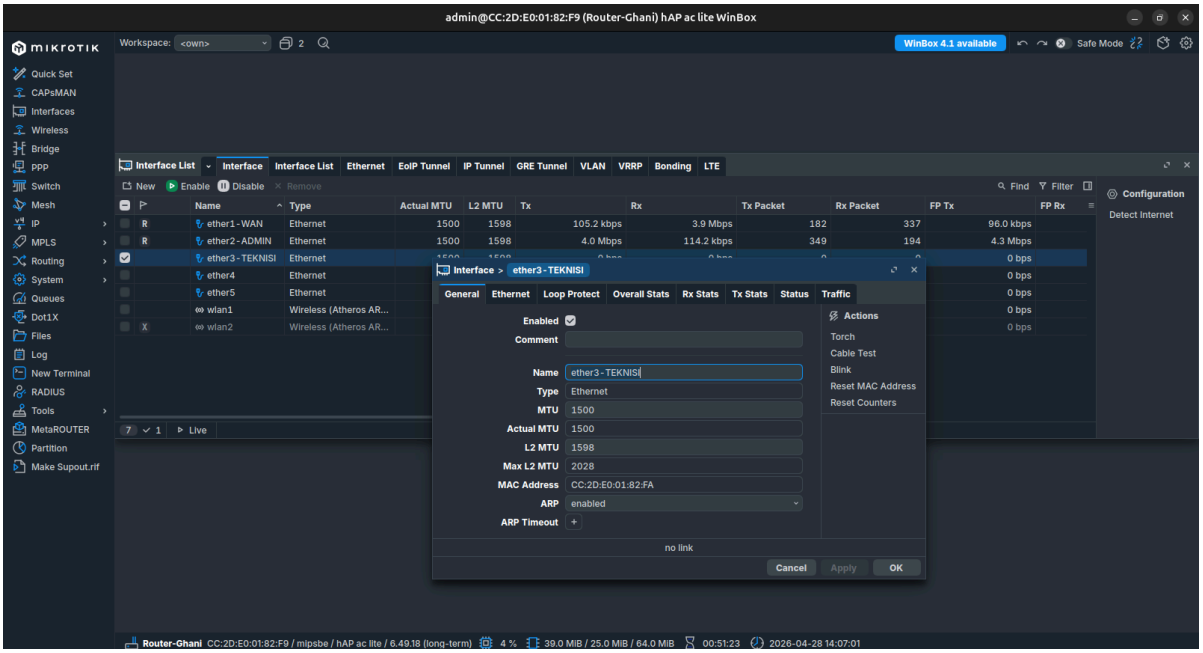
diubah namanya pada bagian interface



Aktifkan pada bagian wlan1
Lalu edit seperti dibawah ini

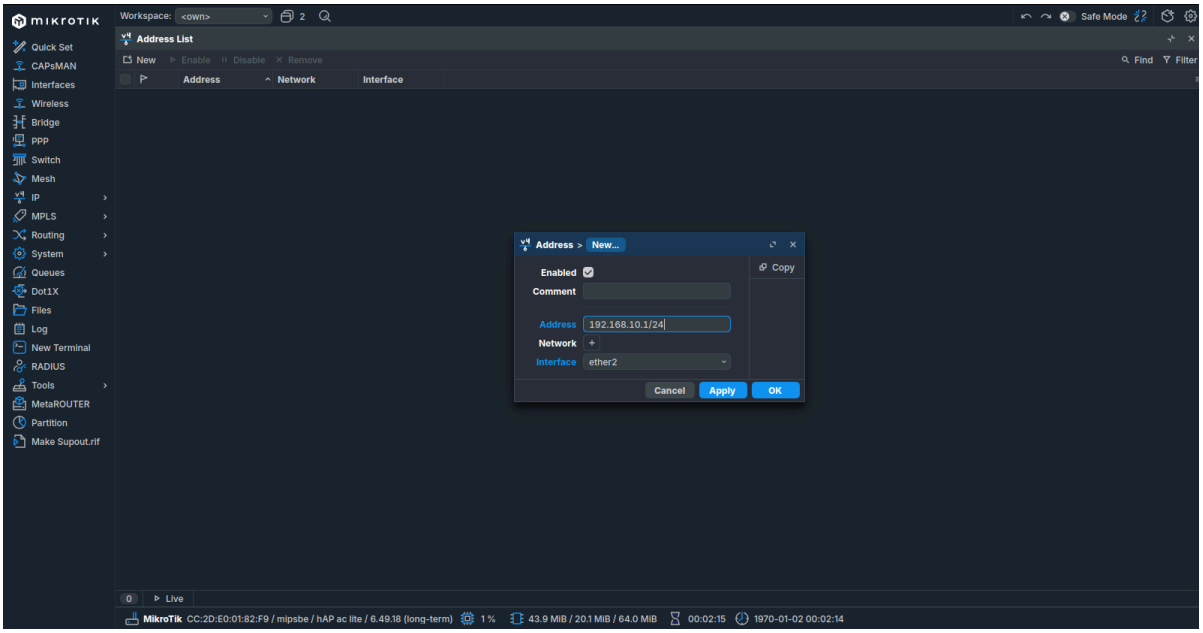

admin@CC:2D:E0:01:82:F9 (Router-Ghani) hAP ac lite WinBox
MIKROTIK
Workspace: <own>
WinBox 4.1 available
Safe Mode
Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
MPLS
Routing
System
Queues
Dot1X
Files
Log
New Terminal
RADIUS
Tools
MetaROUTER
Partition
Make Supout.rif
Interface List
Interface
Interface List
Ethernet
EoIP Tunnel
IP Tunnel
GRE Tunnel
VLAN
VRRP
Bonding
LTE
New
Enable
Disable
Remove
Find
Filter
Name
Type
FP Tx
FP Rx
R ether1-WAN Ethernet
R ether2-ADMIN Ethernet
ether3-TEKNISI Ethernet
ether4 Ethernet
ether5 Ethernet
wlan1 Wireless (Atheros AR...
X wlan2 Wireless (Atheros AR...
93.1 kbps
4.2 Mbps
Configuration
Detect Internet
Interface > ether1-WAN
General
Ethernet
Loop Protect
Overall Stats
Rx Stats
Tx Stats
Status
Traffic
Enabled
Comment
Name ether1-WAN
Type Ethernet
MTU 1500
Actual MTU 1500
L2 MTU 1598
Max L2 MTU 2028
MAC Address CC:2D:E0:01:82:F8
ARP enabled
ARP Timeout
Actions
Torch
Cable Test
Blink
Reset MAC Address
Reset Counters
link ok
RUNNING
Cancel
Apply
OK
Live
Router-Ghani CC:2D:E0:01:82:F9 / mipsbe / hAP ac lite / 6.49.18 (long-term) 8 % 39.0 MiB / 25.0 MiB / 64.0 MiB 00:50:34 2026-04-28 14:06:12

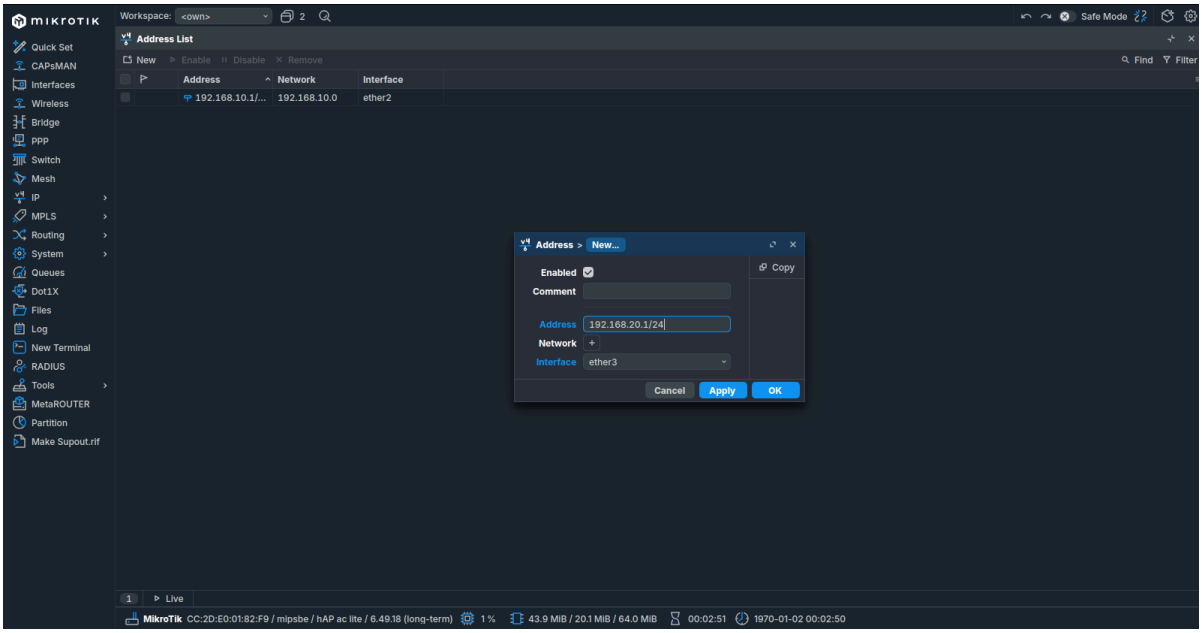

admin@CC:2D:E0:01:82:F9 (Router-Ghani) hAP ac lite WinBox
MIKROTIK
Workspace: <own>
WinBox 4.1 available
Safe Mode
Interface List
Interface
Interface List
Ethernet
EoIP Tunnel
IP Tunnel
GRE Tunnel
VLAN
VRRP
Bonding
LTE
New
Enable
Disable
Remove
Find
Filter
Name
Type
Actual MTU
L2 MTU
Tx
Rx
Tx Packet
Rx Packet
FP Tx
FP Rx
R ether1-WAN Ethernet 1500 1598 103.0 kbps 4.1 Mbps 184 350 93.5 kbps
R ether2-ADMIN Ethernet 1500 1598 4.2 Mbps 112.0 kbps 361 196 4.1 Mbps
ether3-TEKNISI Ethernet
ether4 Ethernet
ether5 Ethernet
wlan1 Wireless (Atheros AR...
X wlan2 Wireless (Atheros AR...
Configuration
Detect Internet
Interface > ether2-ADMIN
General
Ethernet
Loop Protect
Overall Stats
Rx Stats
Tx Stats
Status
Traffic
Enabled
Comment
Name ether2-ADMIN
Type Ethernet
MTU 1500
Actual MTU 1500
L2 MTU 1598
Max L2 MTU 2028
MAC Address CC:2D:E0:01:82:F9
ARP enabled
ARP Timeout
Actions
Torch
Cable Test
Blink
Reset MAC Address
Reset Counters
link ok
RUNNING
Cancel
Apply
OK
Live
Router-Ghani CC:2D:E0:01:82:F9 / mipsbe / hAP ac lite / 6.49.18 (long-term) 6 % 39.0 MiB / 25.0 MiB / 64.0 MiB 00:51:05 2026-04-28 14:06:43

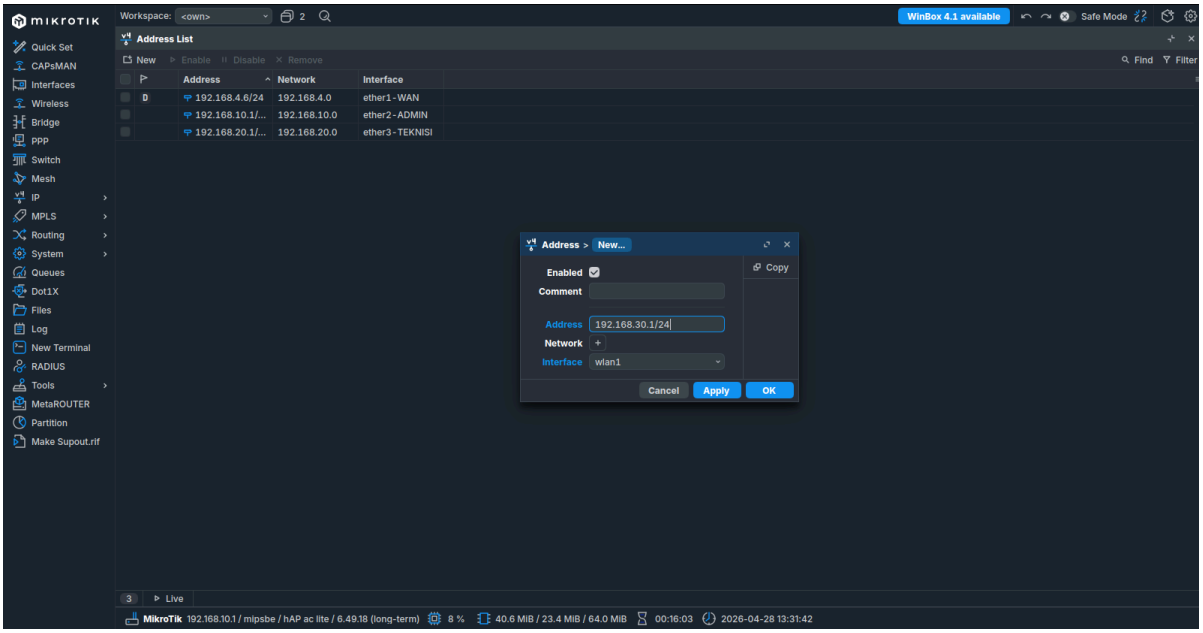


Langkah ke 2

klik IP —> Addresess —> Klik New

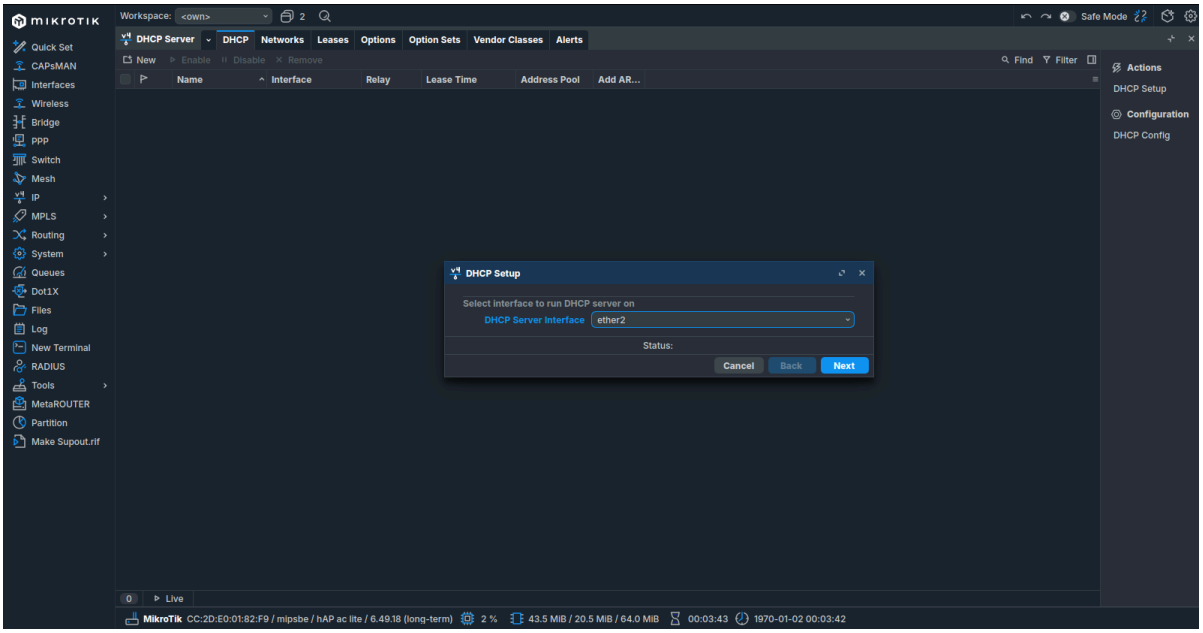


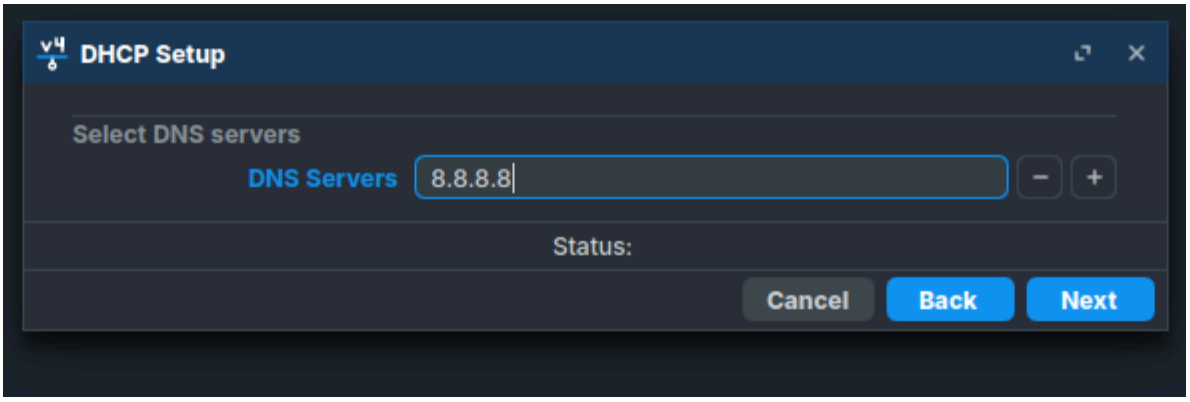




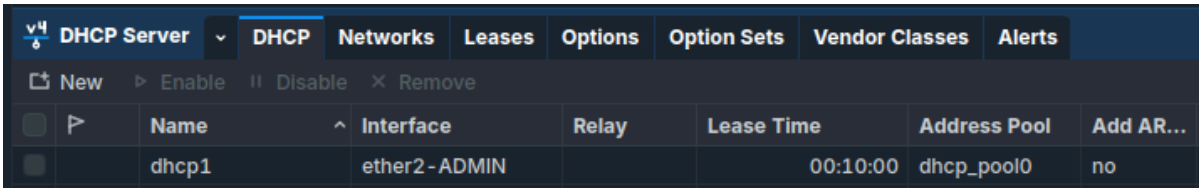
Langkah ke 3

klik IP —> DHCP Server —> klik new
buatkan untuk masing masing ether

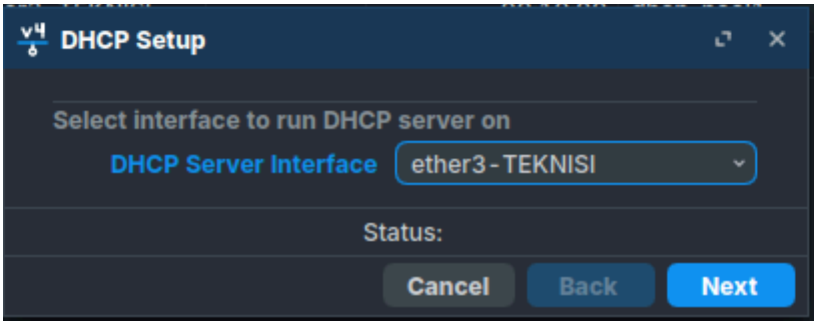




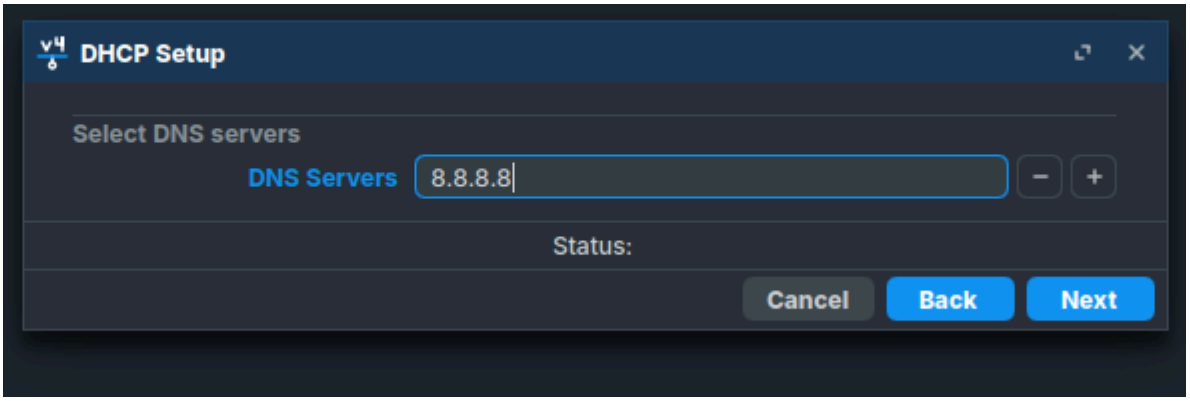
Klik next sampai muncul ether2



Buatkan lagi untuk ether3

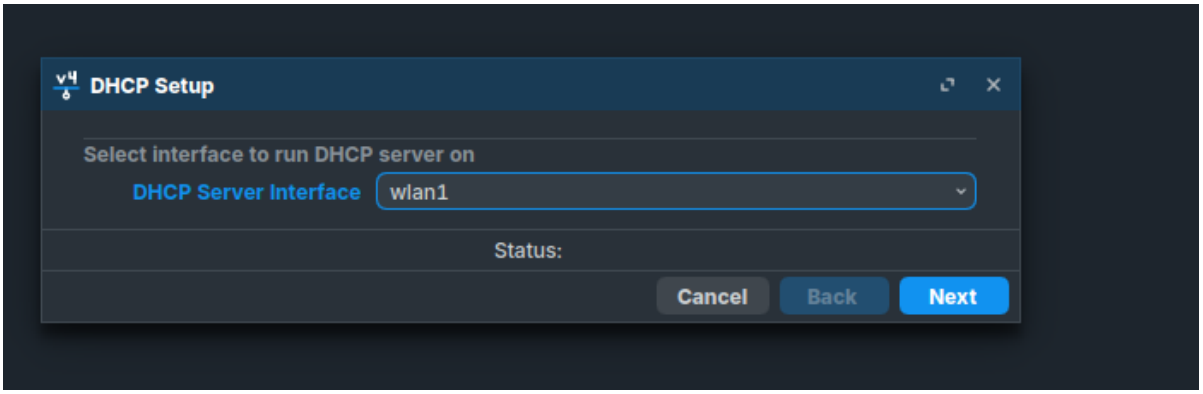


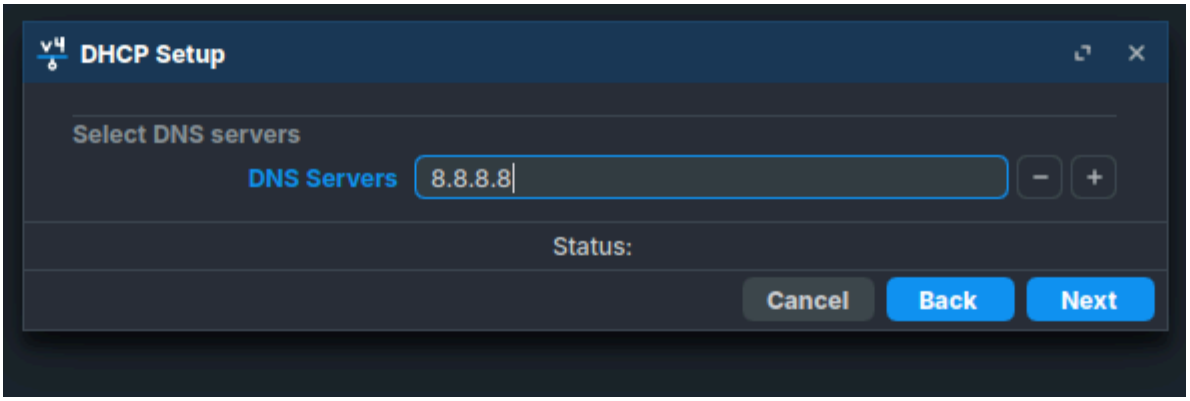
Klik next, pada bagian dns isi 8.8.8.8



Setelah selesai maka akan muncul ether3

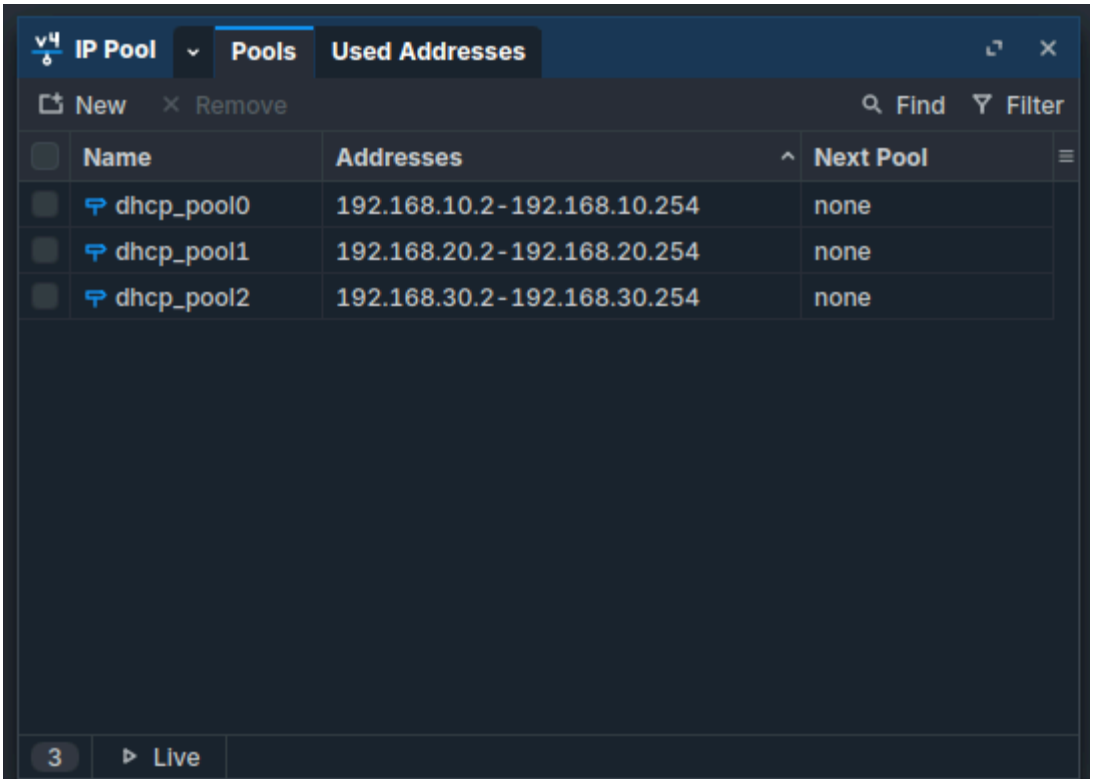
Buatkan juga untuk wlan1
Klik next sampai muncul wlan1





Langkah ke 4

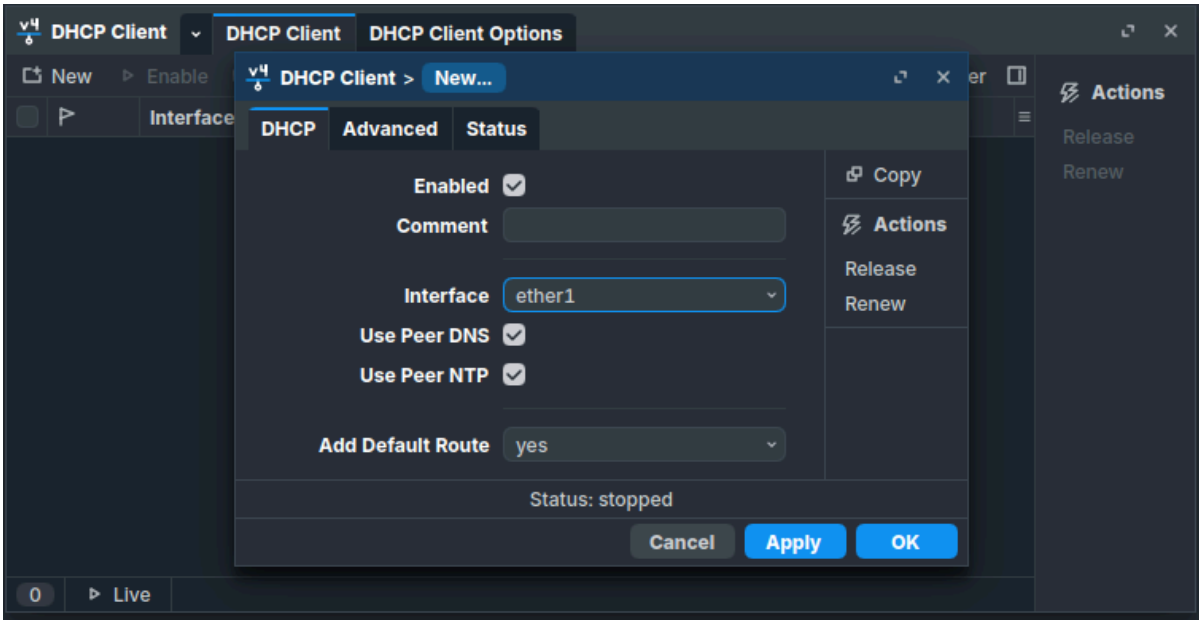
Klik IP —> Pool

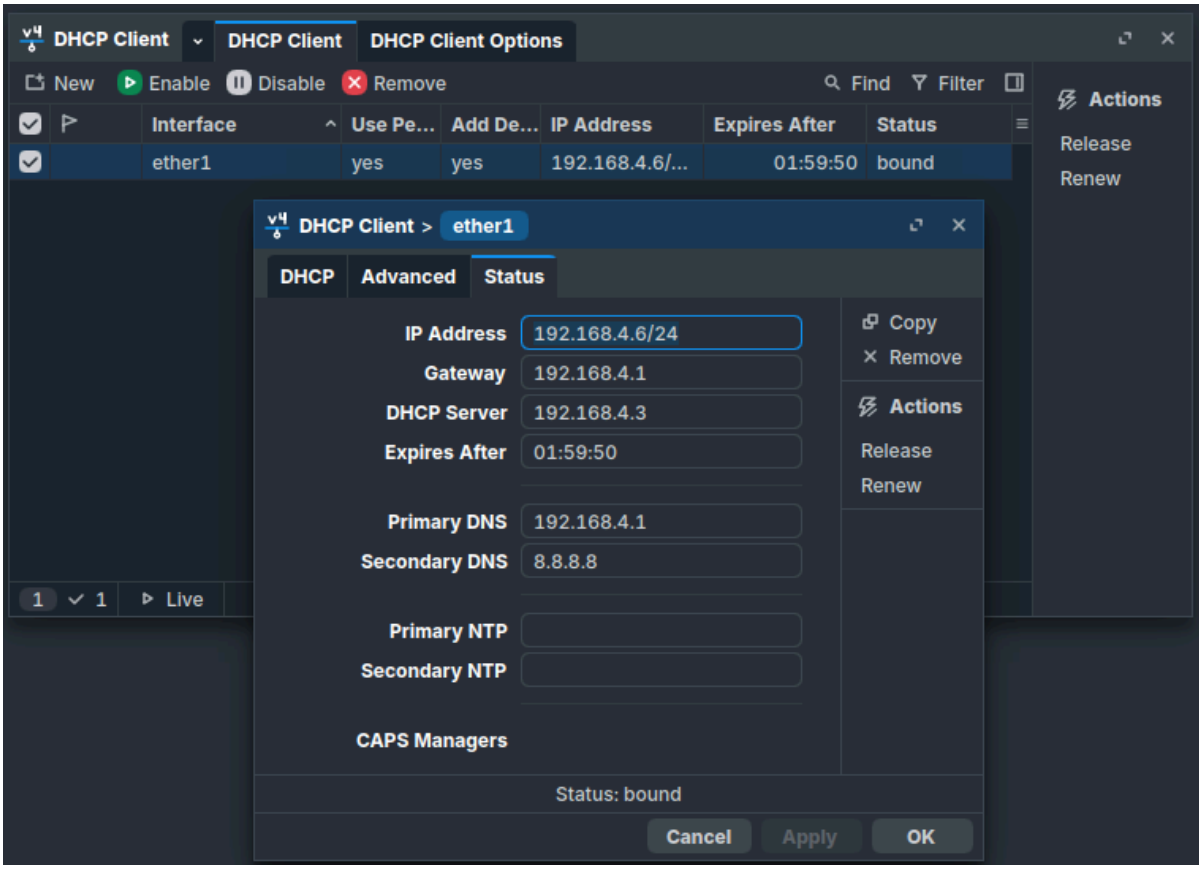


Tadi kita sudah membuat dhcp server ether2, ether3, dan wlan1
lalu pas kita cek di ip pool sudah ada range ip nya masing masing

Langkah ke 5

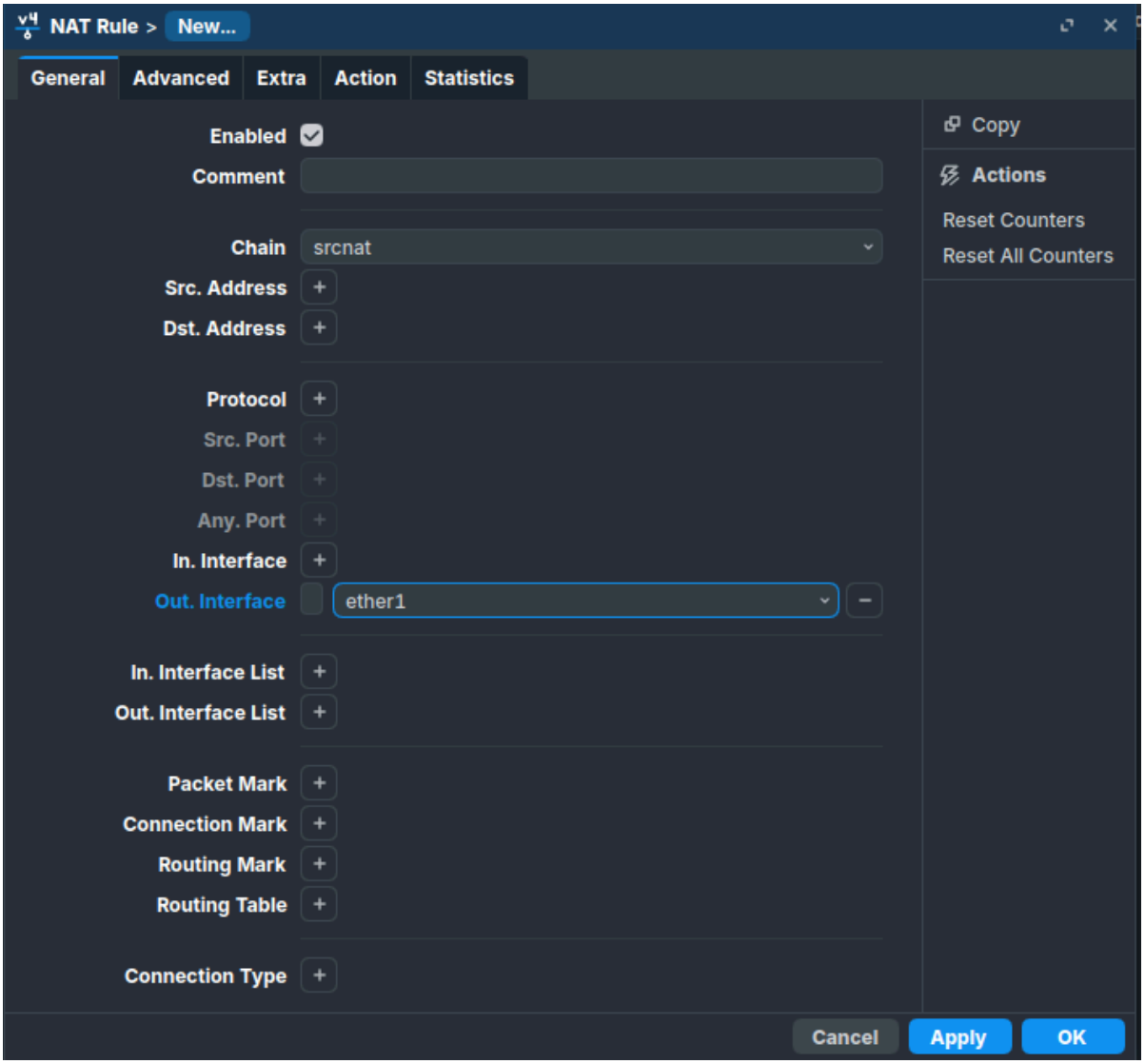
Klik IP —> DHCP Client
lalu pilih ether1

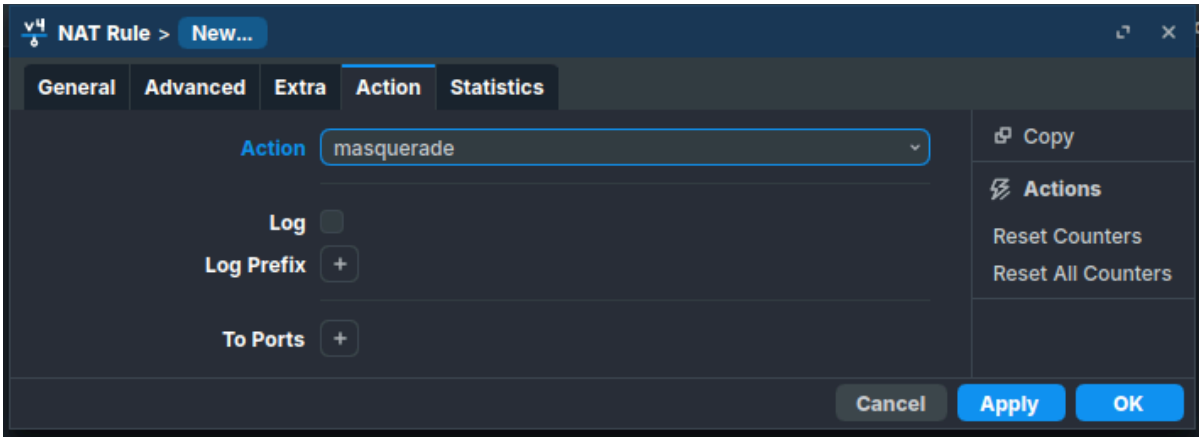




Langkah ke 6

Klik IP —> Firewall —> Nat
lalu klik new, setting seperti dibawah ini



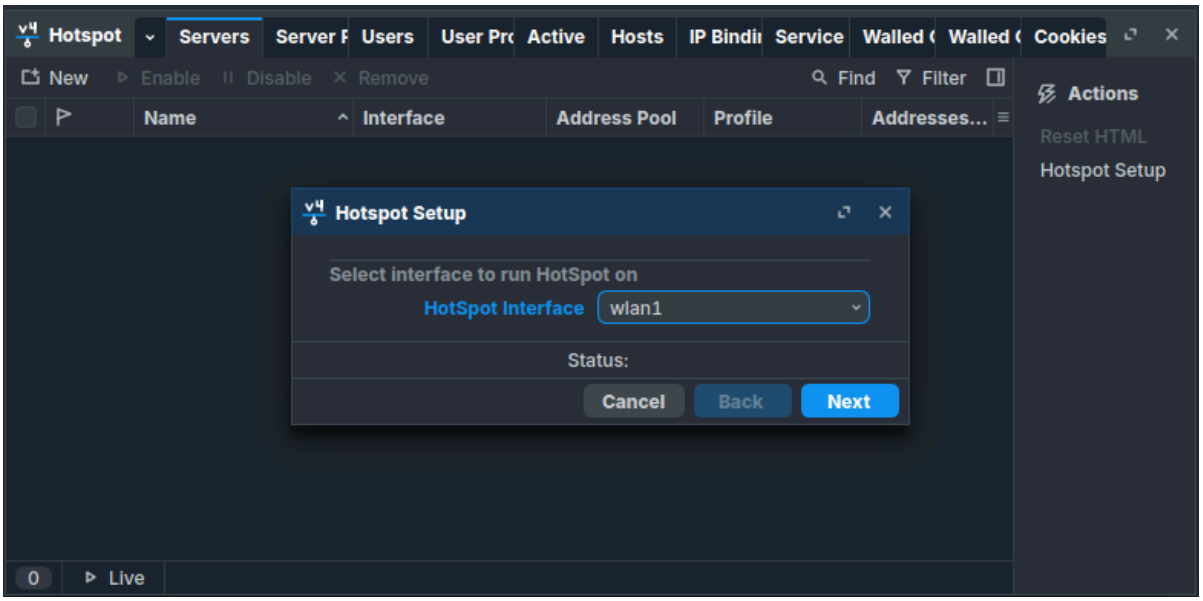


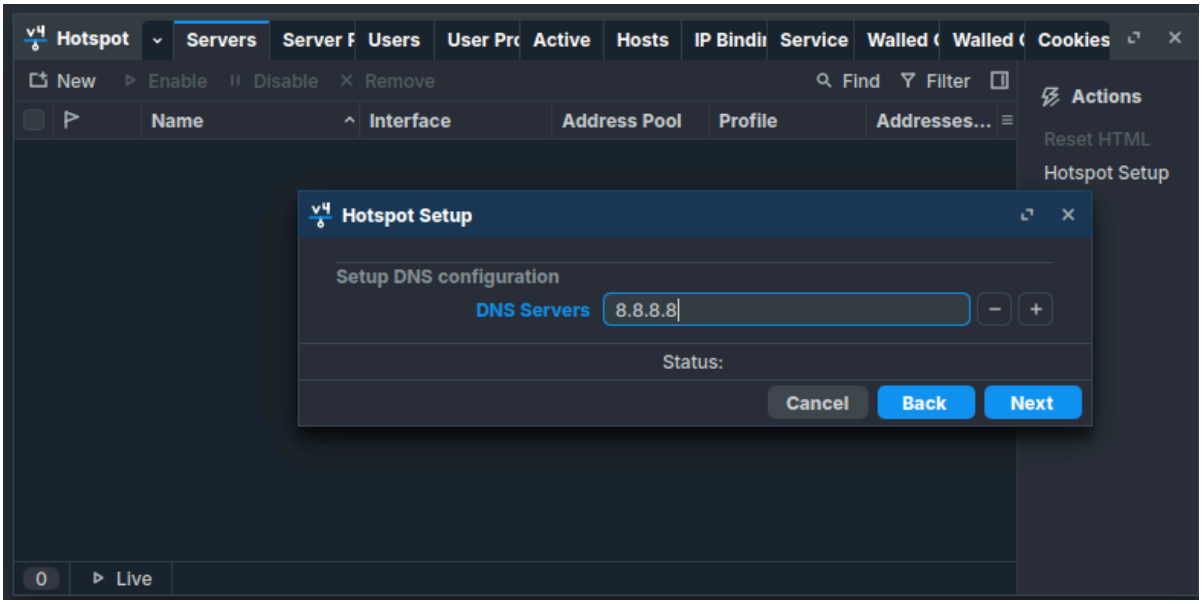
Klik apply lalu ok

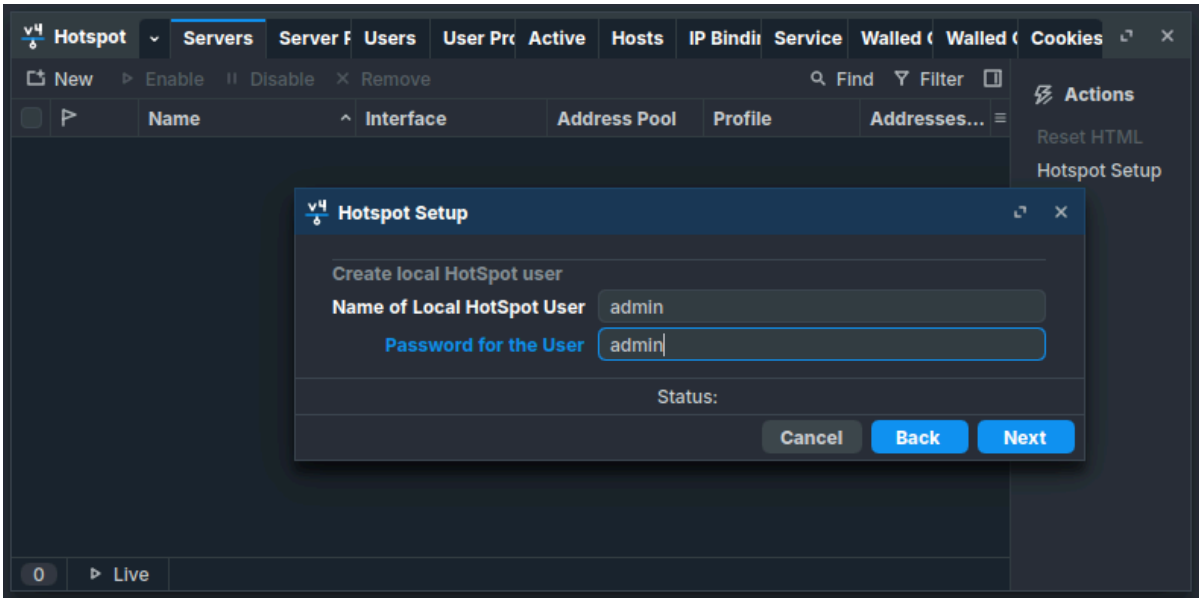
Langkah ke 7

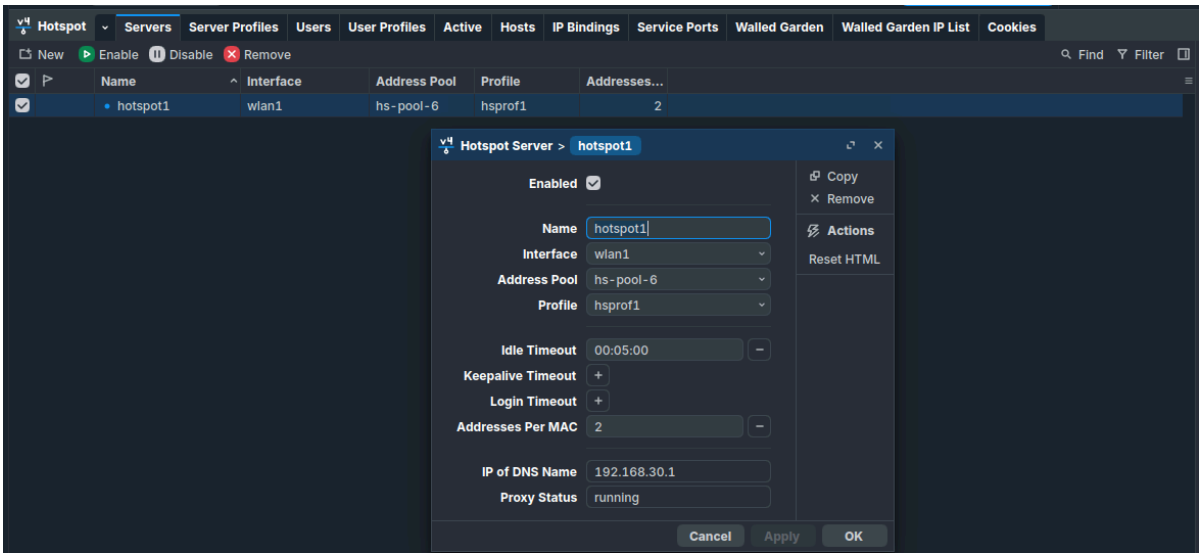
Klik IP —> Hotspot
Klik new lalu klik next, pada bagian dns isi 8.8.8.8 setelah itu klik next

buat akun pada bagian name of local hotspot user
pada bagian dns isi : hotspot.siswa.co.id
setelah itu klik next sampai selesai dan muncul wlan1



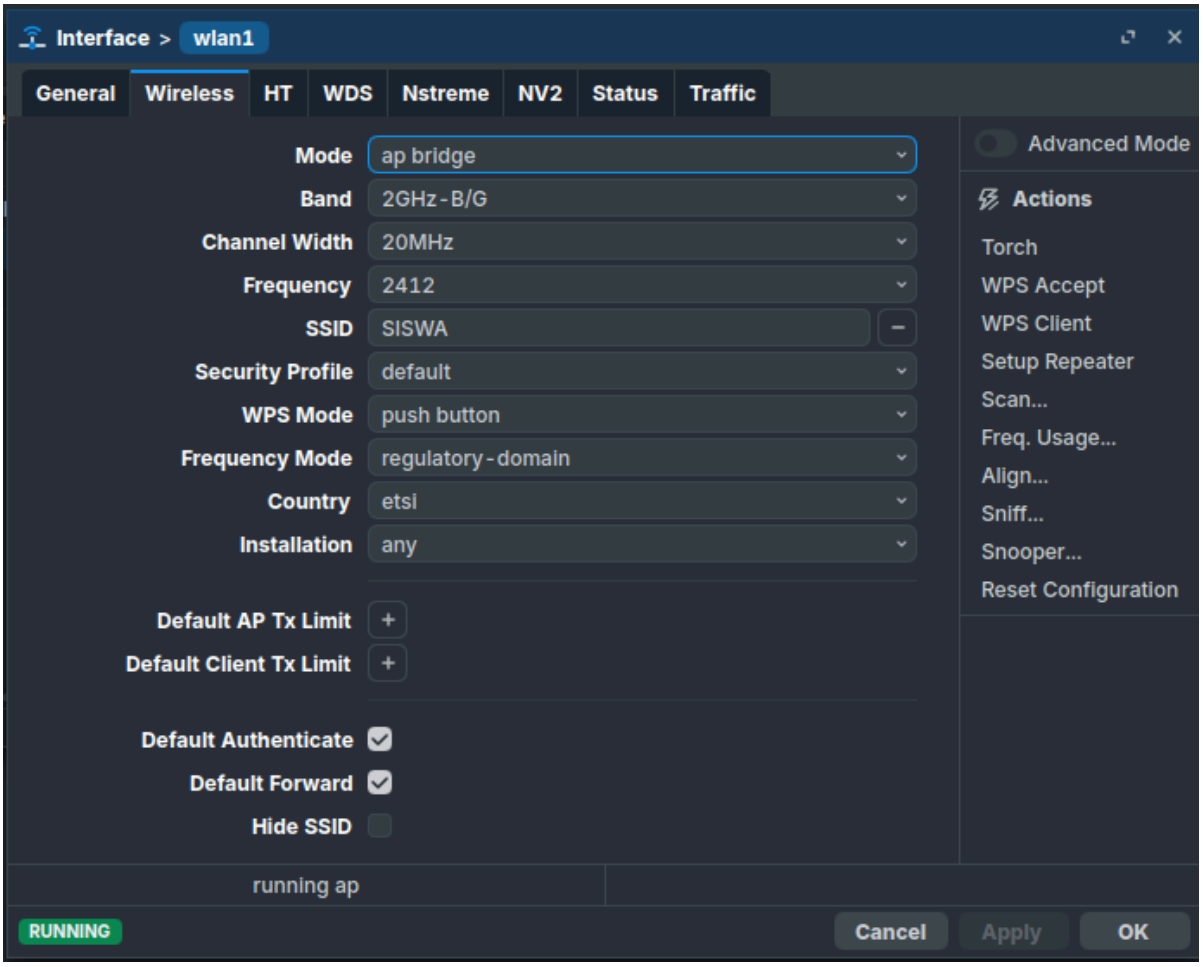




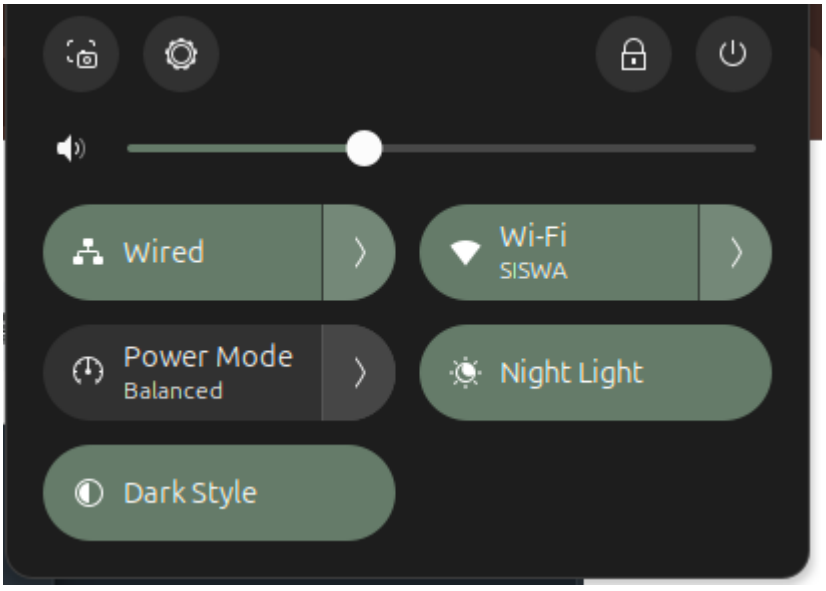


Langkah ke 8

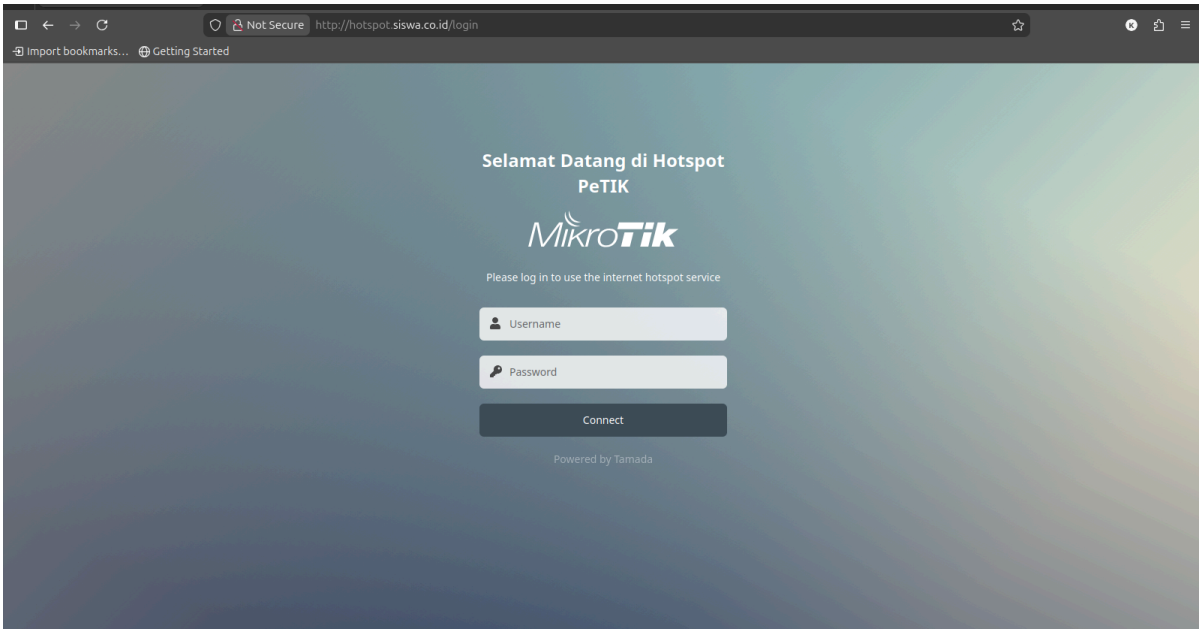
Klik Wireless
setting seperti dibawah ini



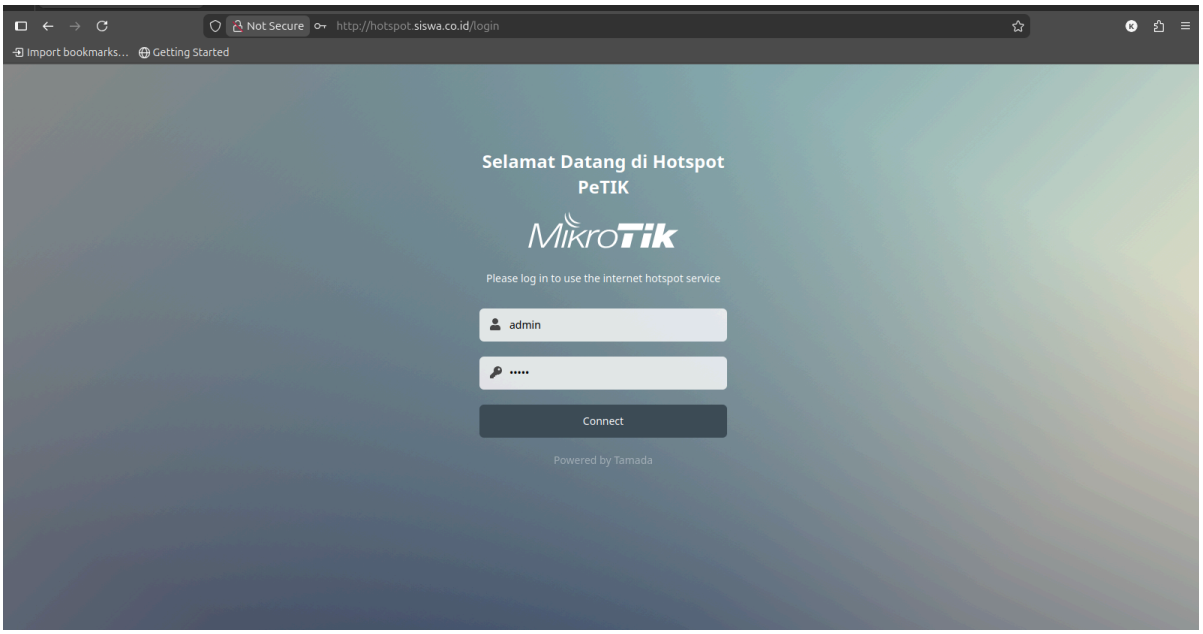
lalu klik apply lalu ok



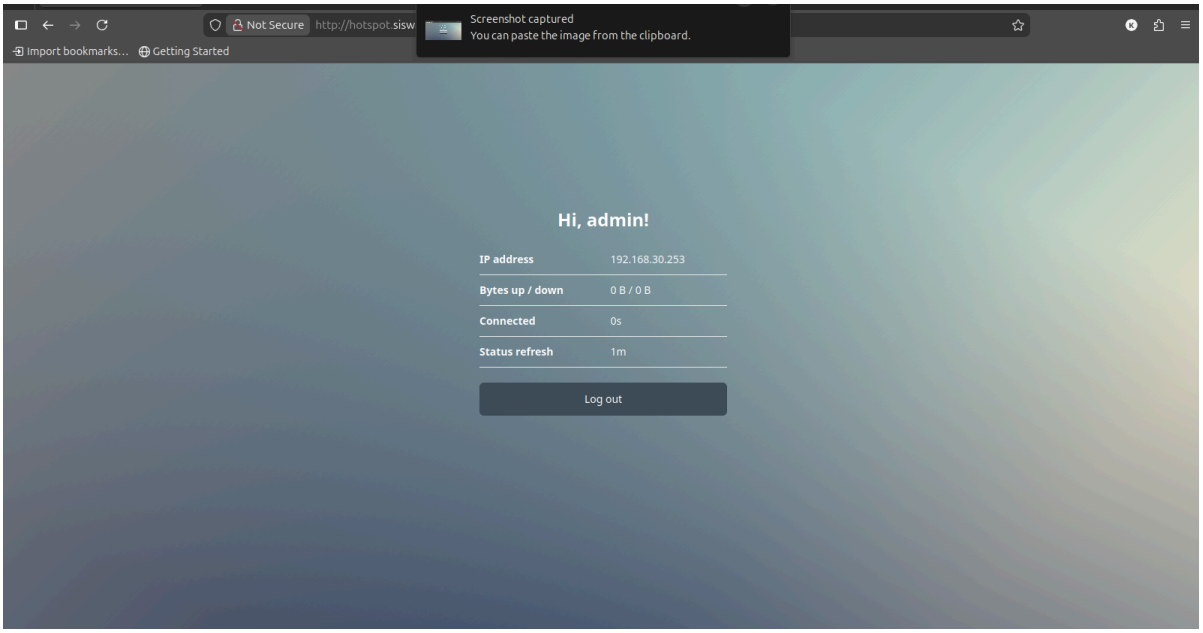
connect ke hotspot siswa lalu masukkan nama dns nya



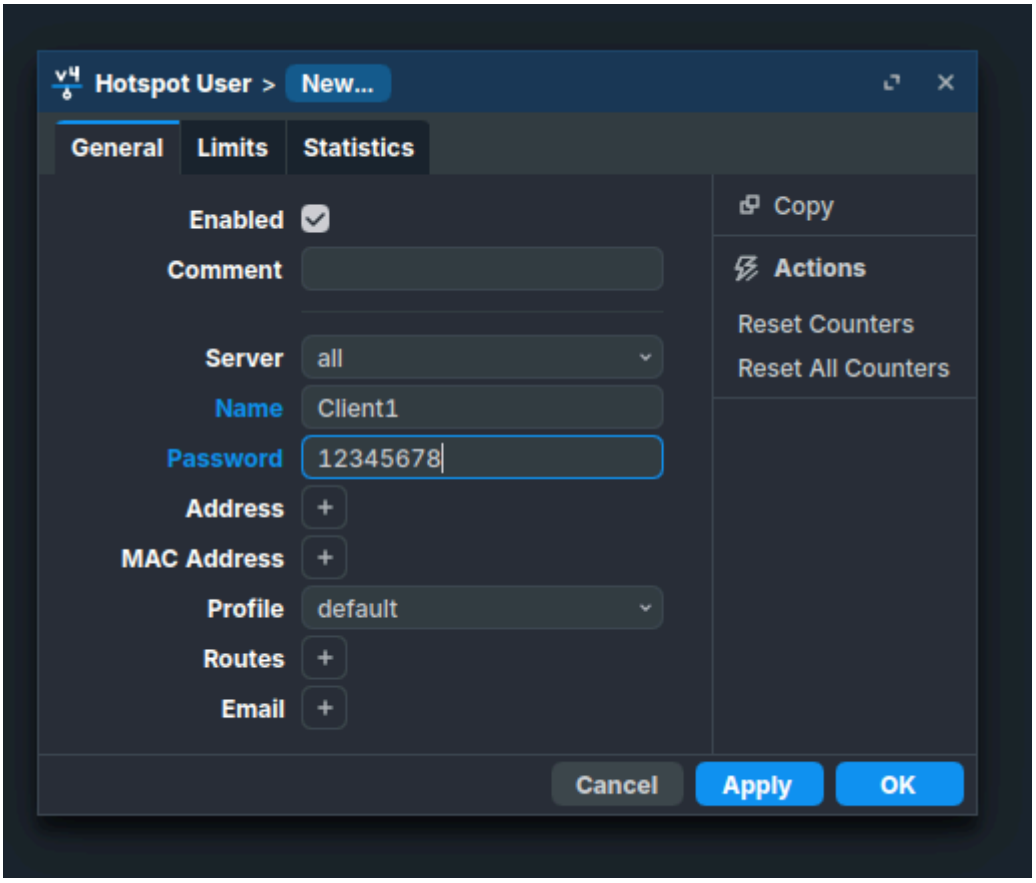
Masukkan username dan password yang sudah tadi kita buat di hotspot
username : admin
password : admin



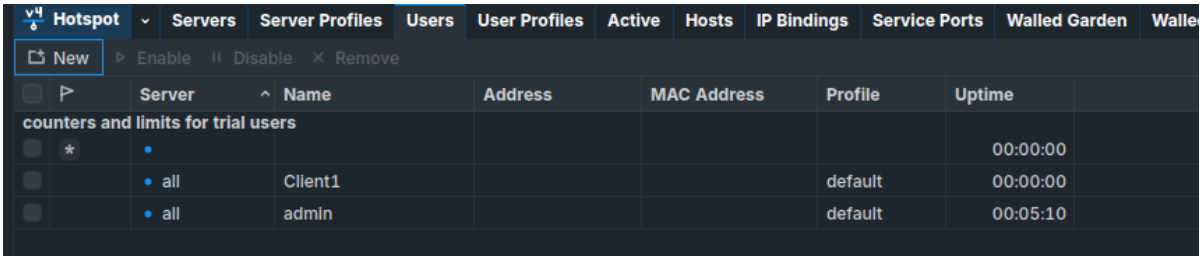
lalu klik connect, setelah connect maka akan muncul tampilan seperti dibawah ini



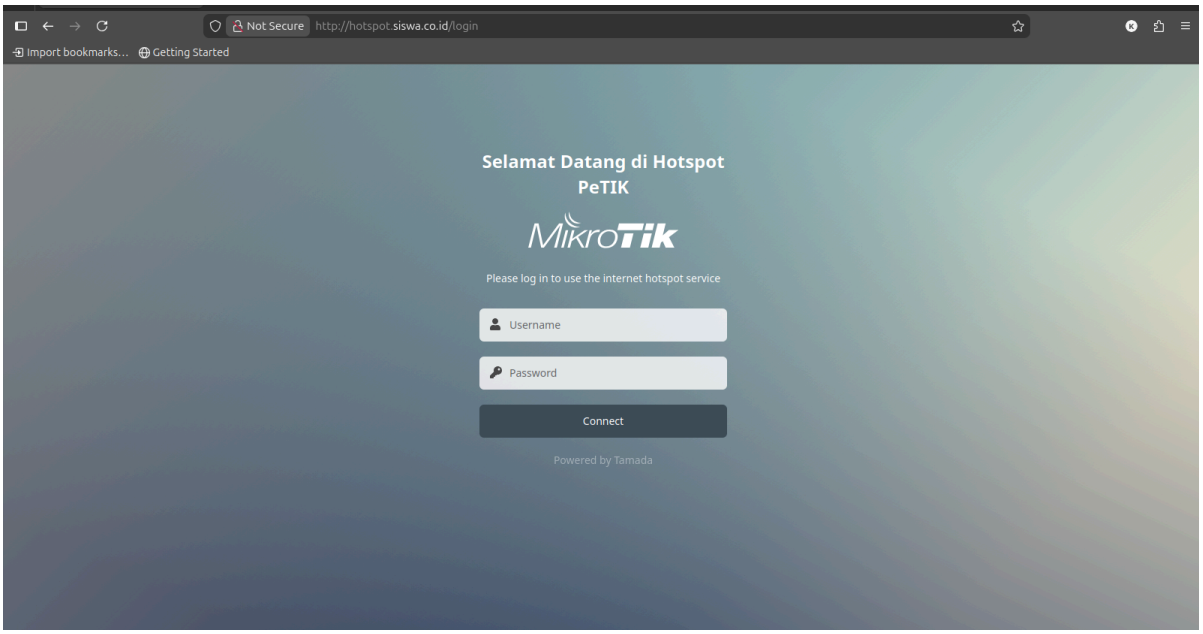
Jika kita mau membuat user maka kita setting di bagian
IP —> Hotspot —> Users
Klik new



klik apply lalu ok



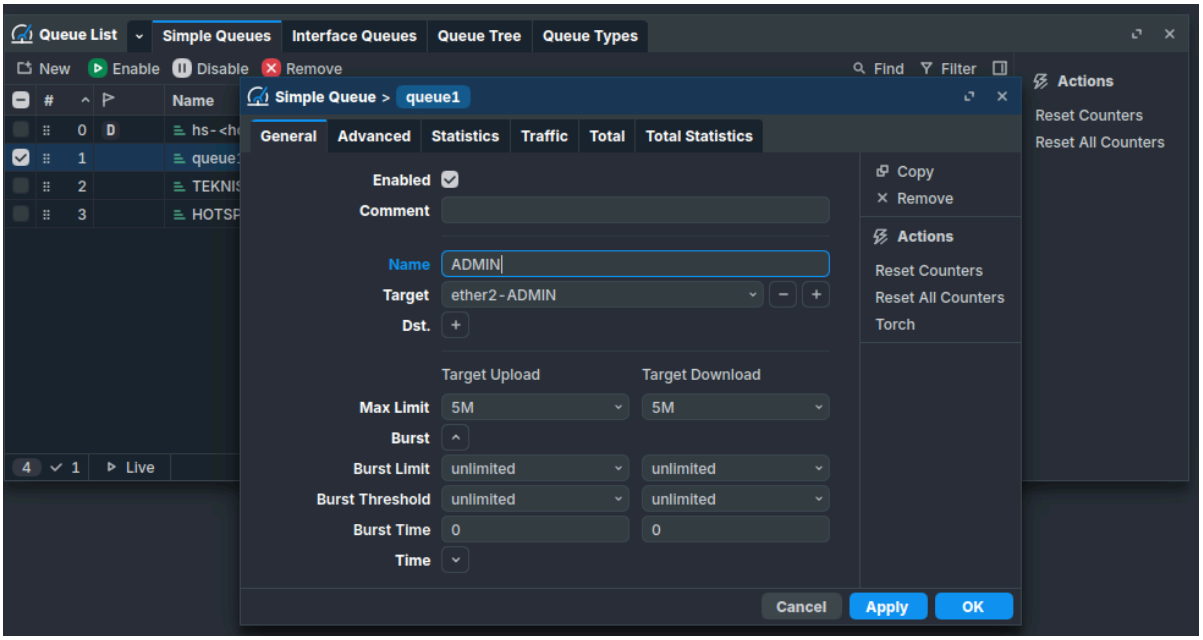
setelah dibuat tes login ke hotspot.siswa.co.id lalui masukkan sesuai dengan yang kita buat

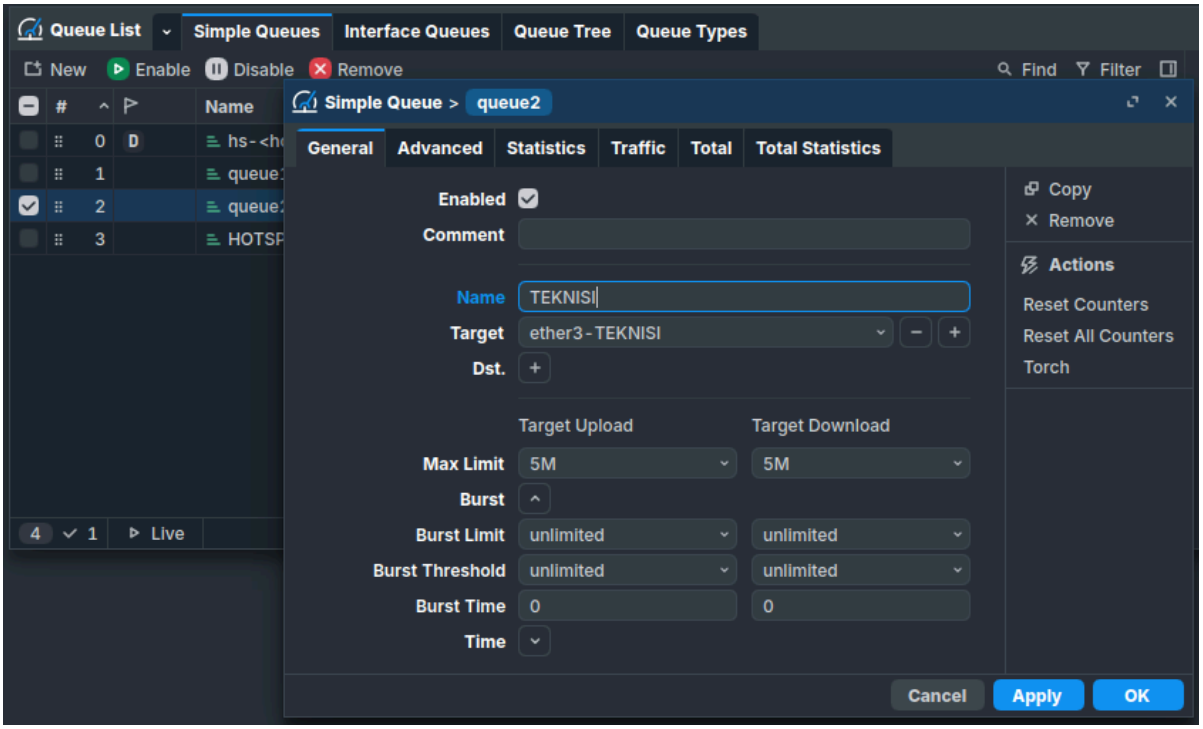


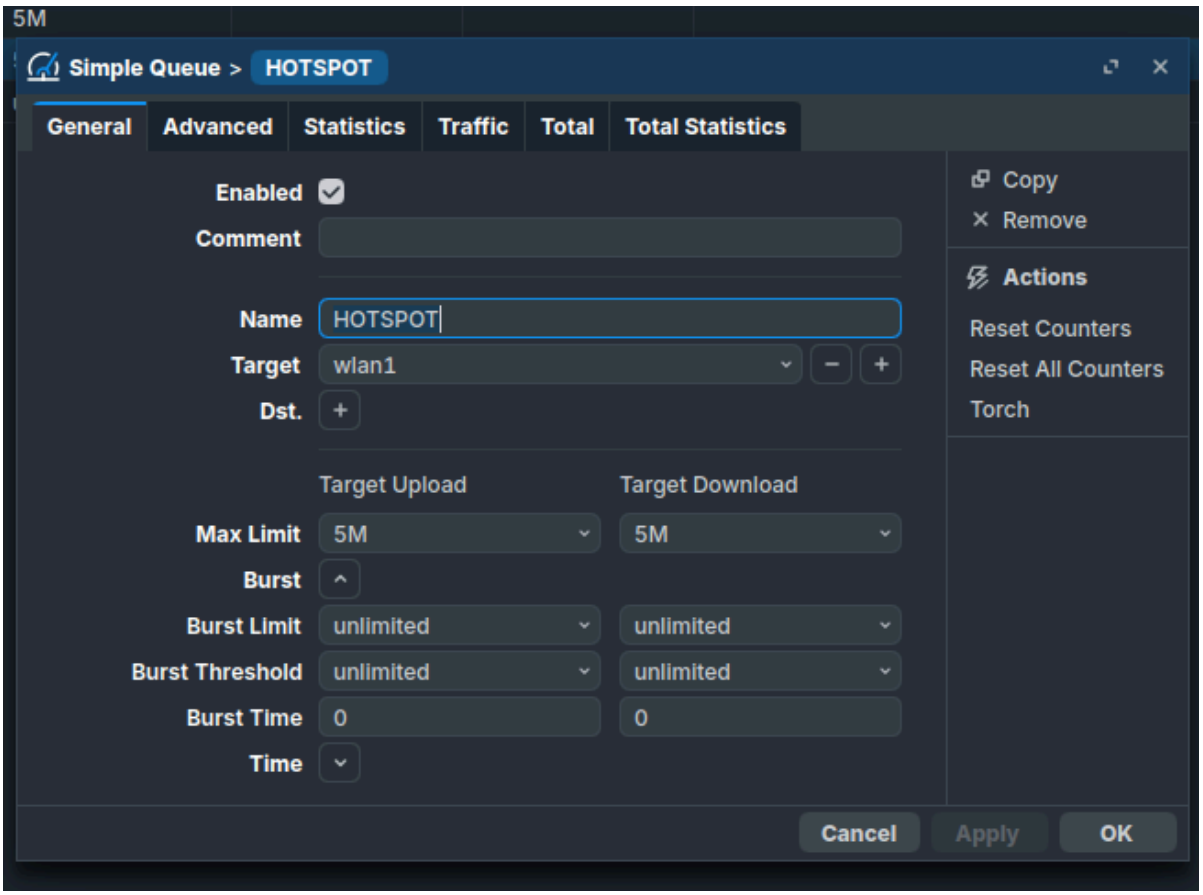
Lalu klik Connect

Langkah ke 9

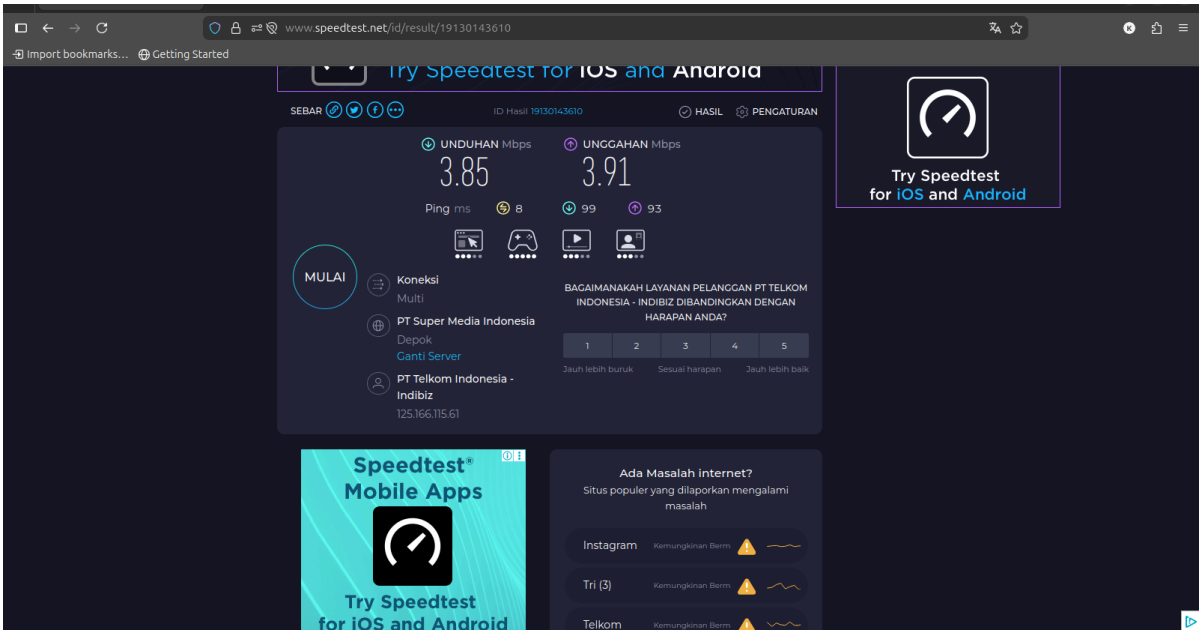
Klik Queues —> Simple Queues
Buatkan masing masing interface untuk mengatur bandwidth
klik new
setting seperti dibawah ini kita atur menjadi 5M
klik apply lalu ok


Queue List
Simple Queues
Interface Queues
Queue Tree
Queue Types
New
Enable
Disable
Remove
Find
Filter
Actions
Reset Counters
Reset All Counters
Simple Queue > queue1
General
Advanced
Statistics
Traffic
Total
Total Statistics
Enabled
Comment
Name
ADMIN
Target
ether2-ADMIN
Dst.
Target Upload
Target Download
Max Limit
5M
5M
Burst
Burst Limit
unlimited
unlimited
Burst Threshold
unlimited
unlimited
Burst Time
0
0
Time
Copy
Remove
Actions
Reset Counters
Reset All Counters
Torch
Cancel
Apply
OK
Live


Queue List
Simple Queues
Interface Queues
Queue Tree
Queue Types
New
Enable
Disable
Remove
Find
Filter
Simple Queue > queue2
General
Advanced
Statistics
Traffic
Total
Total Statistics
Enabled
Comment
Name
TEKNISI
Target
ether3-TEKNISI
Dst.
Target Upload
Target Download
Max Limit
5M
5M
Burst
Burst Limit
unlimited
unlimited
Burst Threshold
unlimited
unlimited
Burst Time
0
0
Time
Copy
Remove
Actions
Reset Counters
Reset All Counters
Torch
Cancel
Apply
OK
Live



setelah dibuat admin, teknisi, dan hotspot cek kecepatannya di speedtest



Langkah ke 10

Posisi sekarang berada di ether2

```
pc-15@pc-15:~$ hostname -I
192.168.10.254
pc-15@pc-15:~$
```

lalu cabut ether2 di mikrotik nya pindahkan ke ether3
cek apakah sudah mendapatkan ip yang sudah tadi kita buat

```
pc-15@pc-15:~$ hostname -I
192.168.20.252
pc-15@pc-15:~$
```

cek apakah sudah mendapatkan internet di ether2 dan ether3
cabut di ether3 lalu colokkan lagi ke ether2

```
pc-15@pc-15:~$ hostname -I
192.168.10.254
pc-15@pc-15:~$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=112 time=19.7 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=112 time=18.8 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=112 time=19.0 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=112 time=20.8 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=112 time=19.2 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=112 time=18.8 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=112 time=18.8 ms
^C
--- 8.8.8.8 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6009ms
rtt min/avg/max/mdev = 18.824/19.300/20.803/0.671 ms
pc-15@pc-15:~$
```

cabut di ether2 lalu colokkan lagi ke ether3

```
pc-15@pc-15:~$ hostname -I
192.168.20.252
pc-15@pc-15:~$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=112 time=18.9 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=112 time=18.8 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=112 time=18.9 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=112 time=18.8 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=112 time=18.7 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=112 time=18.9 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=112 time=19.1 ms
^C
--- 8.8.8.8 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6008ms
rtt min/avg/max/mdev = 18.699/18.874/19.135/0.126 ms
```

Selesai