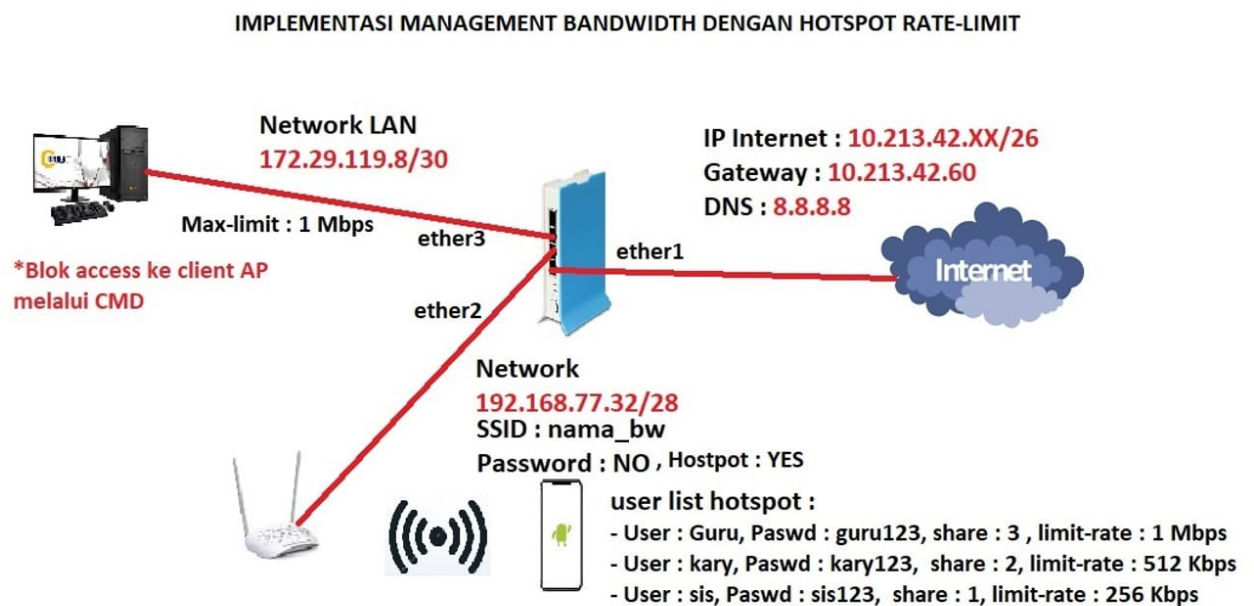


Nama: Ruben Sansidar

Kelas: XII TKJ 1

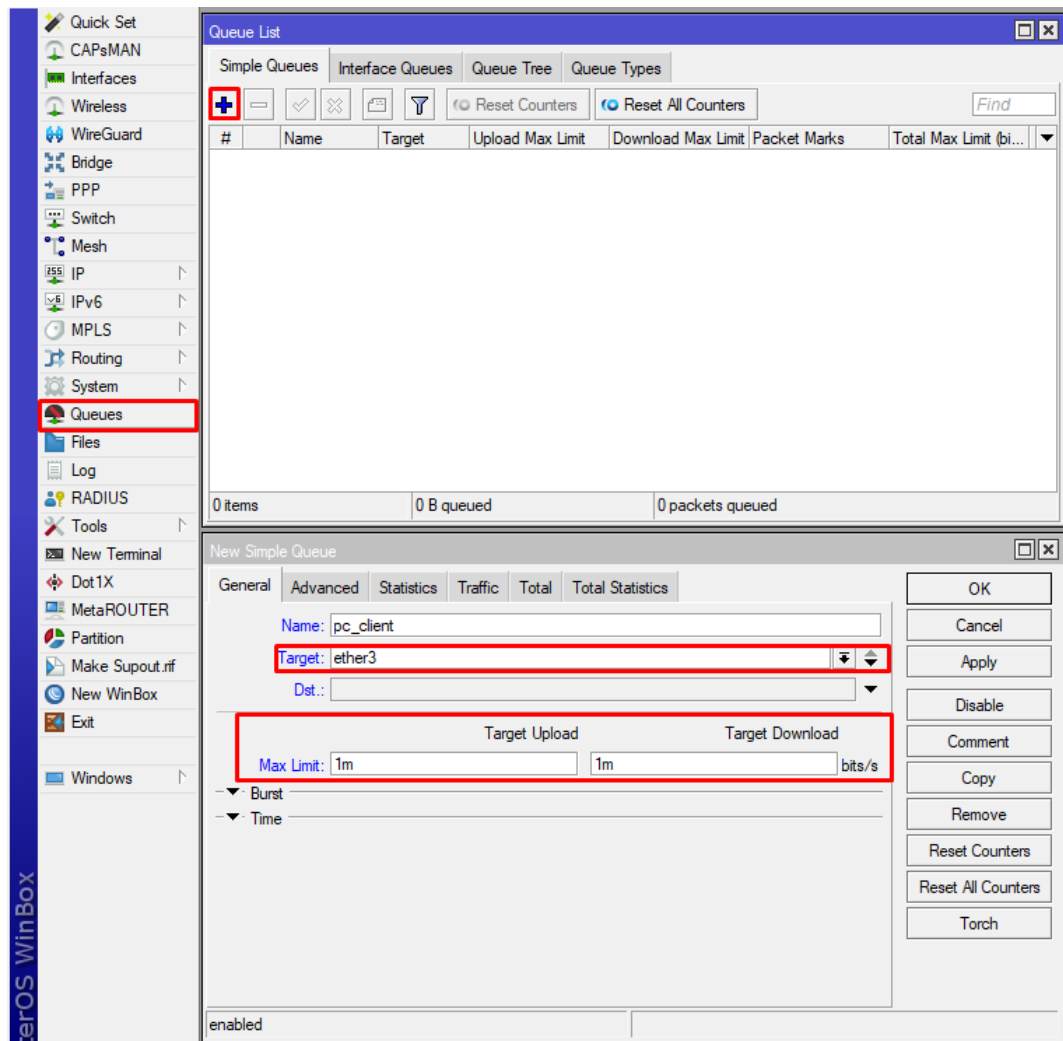
IMPLEMENTASI MANAGEMENT BANDWIDTH DENGAN HOTSPOT RATE-LIMIT

A. T



B. LIMIT BANDWIDTH PADA PC CLIENT

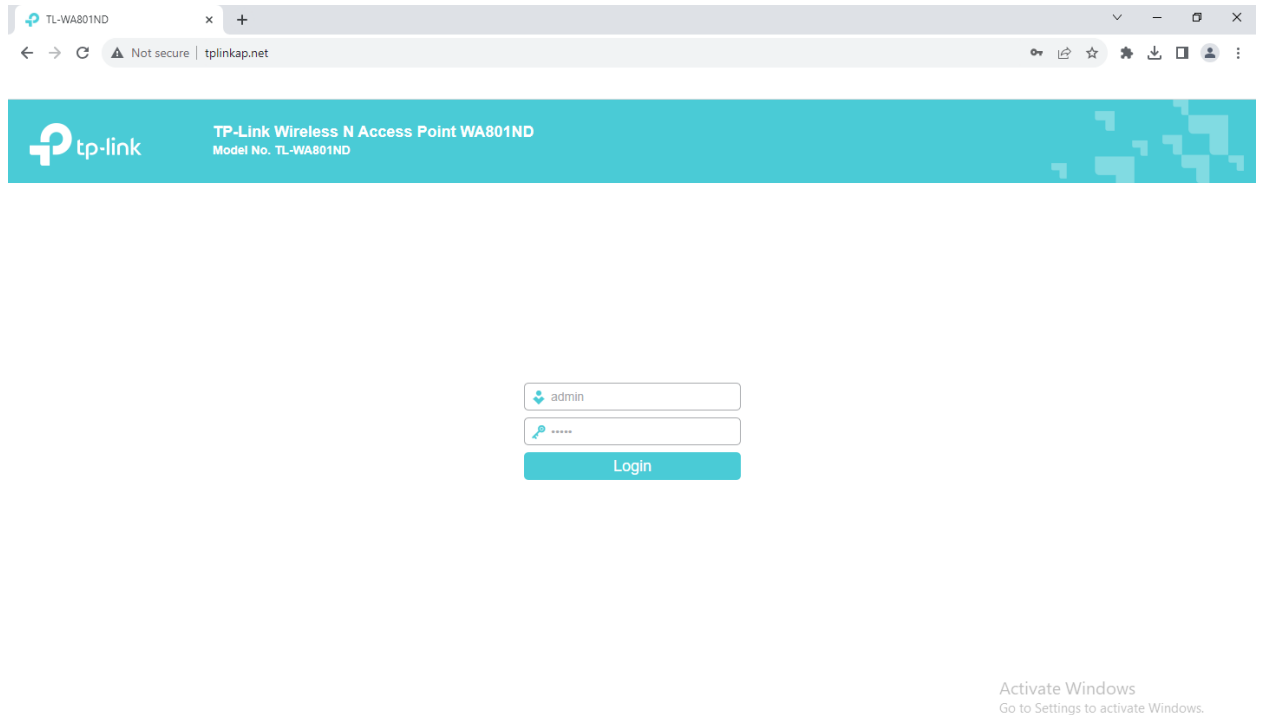
1. Untuk menentukan limit pada PC Client klik menu Queues, lalu tambah list baru, pada kolom Target isikan “ether3”, pada kolom Max limit isikan “1m”, lalu klik Ok.



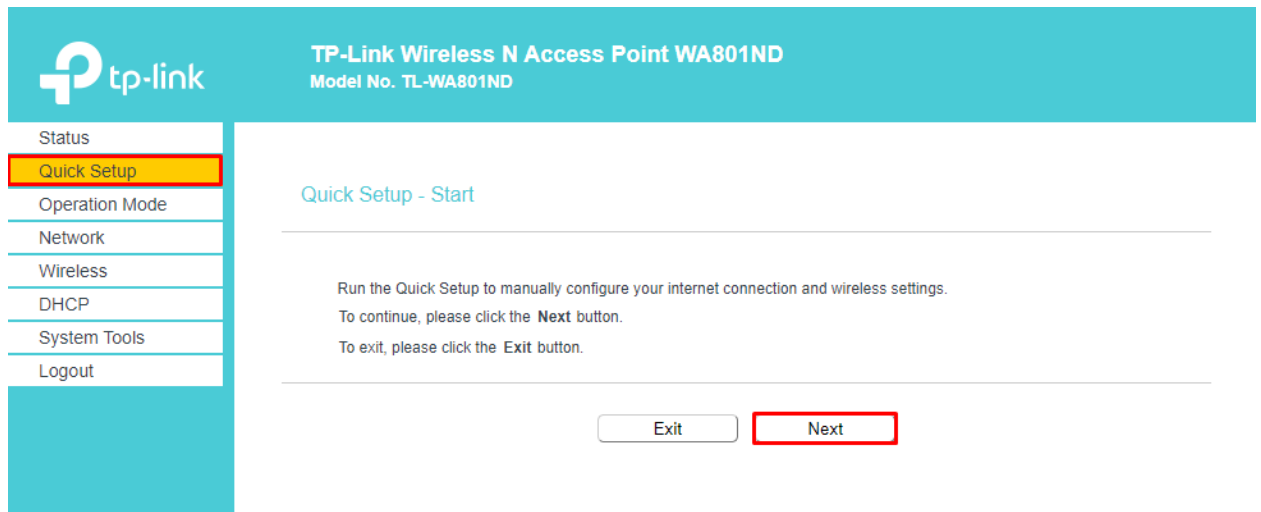
2. Lakukan uji coba test speed di google. Jika kecepatan internet tidak melebihi 1Mbps maka konfigurasi bandwidth telah berhasil.

C. Konfigurasi Access Point

1. Konfigurasi Access Point dengan mengakses link “tplinkap.net” di browser, Lalu login.



2. Pilih Menu Quick Setup, lalu klik tombol Next.



3. Kemudian klik tombol Next.

Quick Setup - Password

☐ Change Login Password

Back

Next

4. Pilih "Access Point", lalu klik tombol Next.

Quick Setup - Operation Mode

Choose Operation Mode:

☒ Access Point

Set up Wi-Fi on an existing wired network

☐ Repeater/Bridge

☐ Client

☐ Multi-SSID

Back

Next

5. Isi Nama SSID untuk Access Point, lalu klik Disable Wireless Security, kemudian klik tombol Next.

Quick Setup - Wireless

Wireless Network Name: (Also called SSID)

Security:

☐ WPA2-PSK (Recommended)

Wireless Password

(Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

☒ Disable Wireless Security

☐ More Advanced Wireless Settings

Back

Next

6. Pilih Type Static IP, Lalu isi IP Address dengan "192.168.77.34" dan Subnet Mask dengan "255.255.255.240", Lalu klik Disable pada DHCP, kemudian klik tombol Next.

Quick Setup - Network Setting

Type:

Note: The IP parameters cannot be configured if you have chosen Smart IP(DHCP)

(In this situation the device will help you configure the IP parameters automatically as you need).

IP Address:

Subnet Mask:

We recommend you configure this AP with the same IP subnet and subnet mask, but different IP address from your root AP/Router.

DHCP Server: ☐ Enable ☒ Disable

Back

Next

7. Dan yang terakhir klik tombol Finish.

Quick Setup - Review Setting

Congratulations! The settings is finish, please click finish button to make it work. For detailed settings, please click other menus if necessary.

Confirm the configuration you have set. If anything wrong, please go Back to reset.

It's recommended to take a note of these settings that you'll need later for reference.

Wireless Settings

Operation Mode:	Access Point
Wireless Channel:	Auto
Wireless Network Name (SSID):	Najib_bw
Wireless Security Mode:	No Security

LAN Settings

Default Access:	http://tplinkap.net
LAN Type:	Static IP
IP Address:	192.168.77.34

Back

Finish

8. Tunggu proses booting hingga selesai.

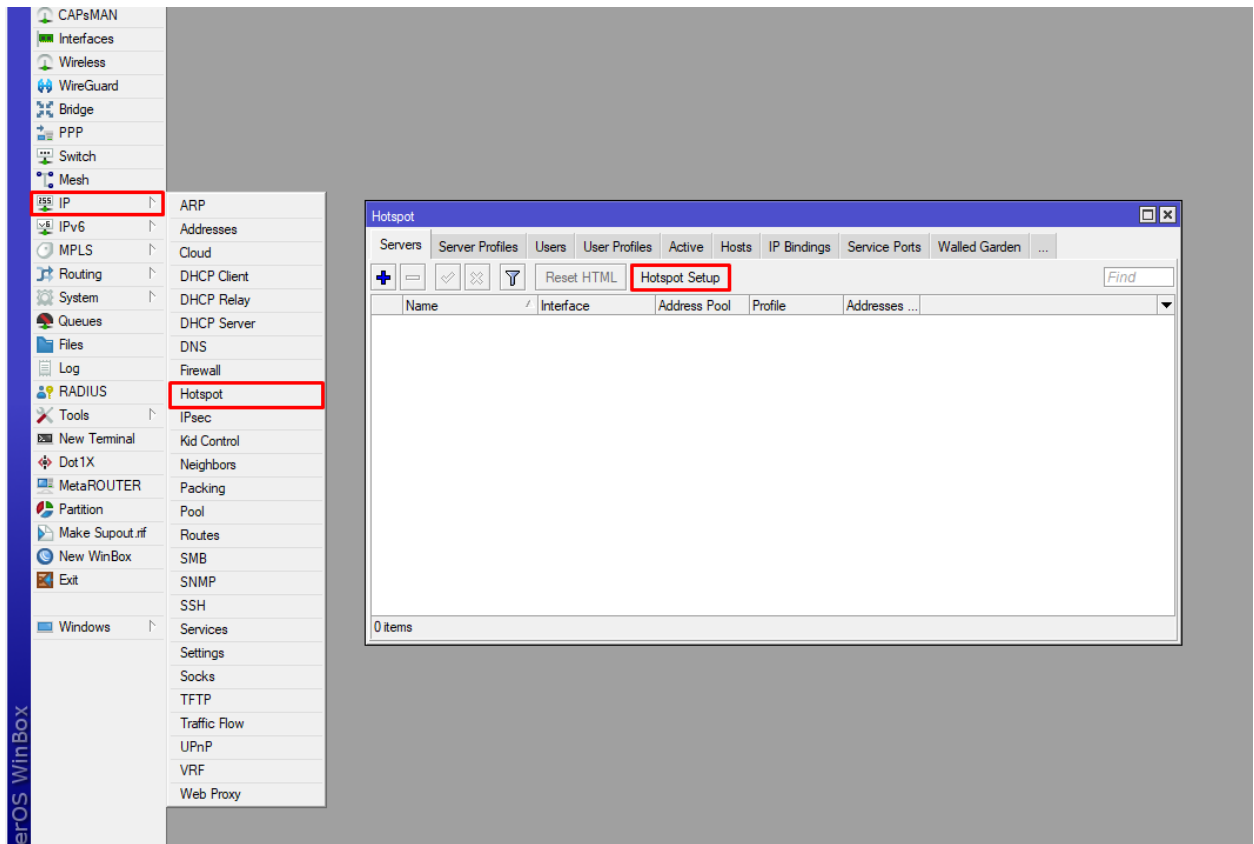
Rebooting

The system is rebooting. Please wait...

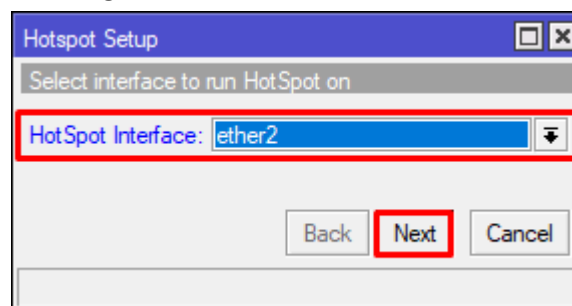
5% 

D. BANDWIDTH DENGAN HOTSPOT RATE-LIMIT

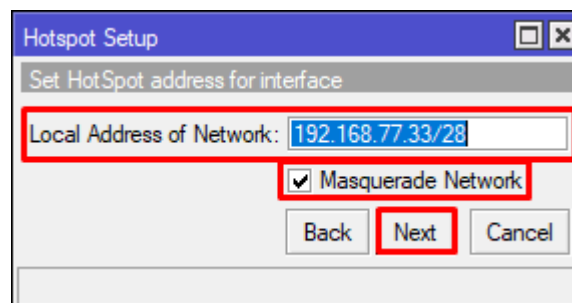
1. Pilih menu IP lalu pilih sub menu Hotspot, kemudian klik tombol Hotspot Setup.



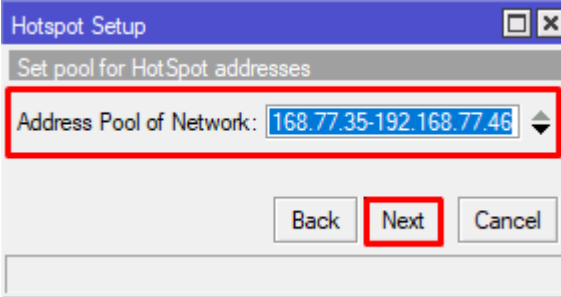
2. Isi kolom Hotspot Interface dengan “ether2”, lalu klik tombol Next.



3. Isi kolom Local Address of Network dengan “192.168.77.33/28”, lalu klik tombol Next.

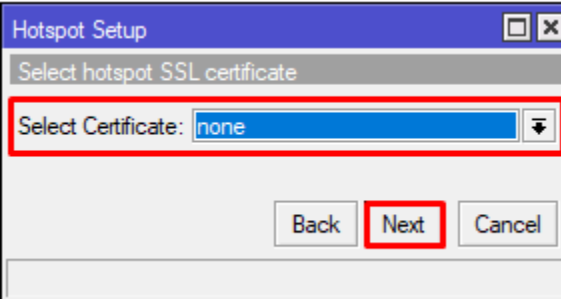


4. Isi Address Pool dengan “192.168.77.33-192.168.77.46”, lalu klik tombol Next.



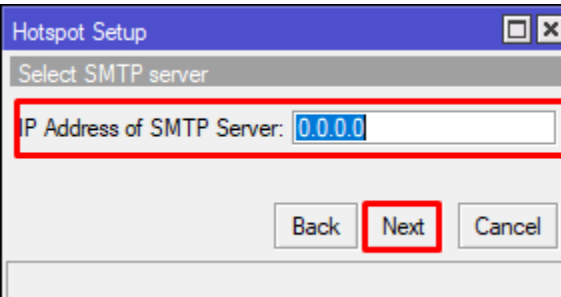
The screenshot shows the 'Hotspot Setup' window with the 'Set pool for HotSpot addresses' tab selected. The 'Address Pool of Network' text box contains the IP range '168.77.35-192.168.77.46'. The 'Next' button is highlighted with a red box.

5. Isi Certificate dengan “none”, lalu klik tombol Next.



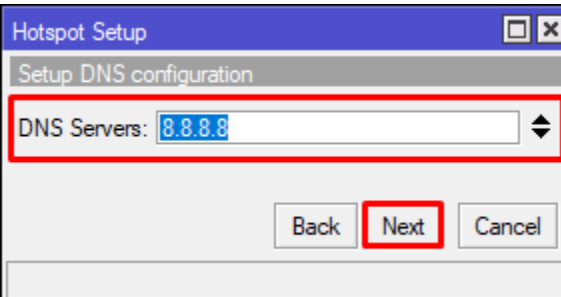
The screenshot shows the 'Hotspot Setup' window with the 'Select hotspot SSL certificate' tab selected. The 'Select Certificate' dropdown menu is set to 'none'. The 'Next' button is highlighted with a red box.

6. Biarkan SMTP Server terisi default, lalu klik tombol Next.



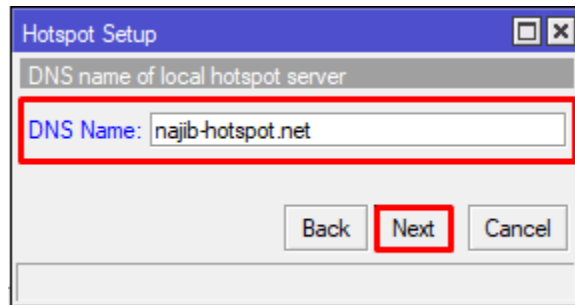
The screenshot shows the 'Hotspot Setup' window with the 'Select SMTP server' tab selected. The 'IP Address of SMTP Server' text box contains the default value '0.0.0.0'. The 'Next' button is highlighted with a red box.

7. Isi DNS Server dengan “8.8.8.8”, lalu klik tombol Next.

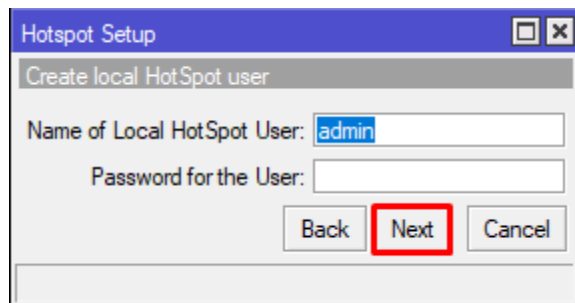


The screenshot shows the 'Hotspot Setup' window with the 'Setup DNS configuration' tab selected. The 'DNS Servers' text box contains the IP address '8.8.8.8'. The 'Next' button is highlighted with a red box.

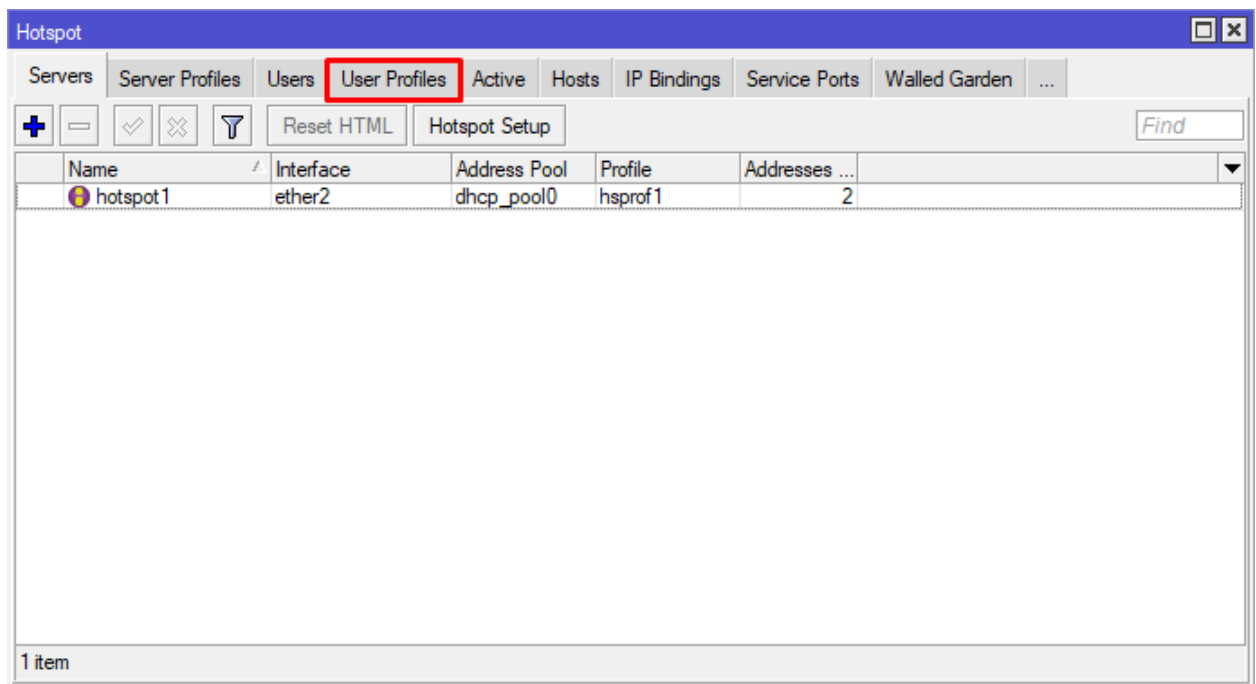
8. Isi DNS Name dengan nama domain yang diinginkan, lalu klik tombol Next.



9. Kemudian Biarkan Panel Selanjutnya terisi dengan nilai default, lalu klik tombol Next.



10. Di panel Hotspot klik tab User Profiles. Lalu tambah profile baru.



11. Isi Beberapa kolom berikut menyesuaikan dengan Topologi. Isi kolom Name dengan “guru”, isi kolom Shared Users dengan “3”, isi kolom Rate Limit (rx/tx) dengan “1m”. dan lalukan hal yang sama pada profile “kary” dan “sis”.

New Hotspot User Profile

General Queue Scripts

Name: guru

Address Pool: none

Session Timeout:

Idle Timeout: none

Keepalive Timeout: 00:02:00

Status Autorefresh: 00:01:00

Shared Users: 3

Rate Limit (rx/tx): 1m

☒ Add MAC Cookie

MAC Cookie Timeout: 3d 00:00:00

Address List:

Incoming Filter:

Outgoing Filter:

Incoming Packet Mark:

Outgoing Packet Mark:

Open Status Page: always

☐ Transparent Proxy

default

OK

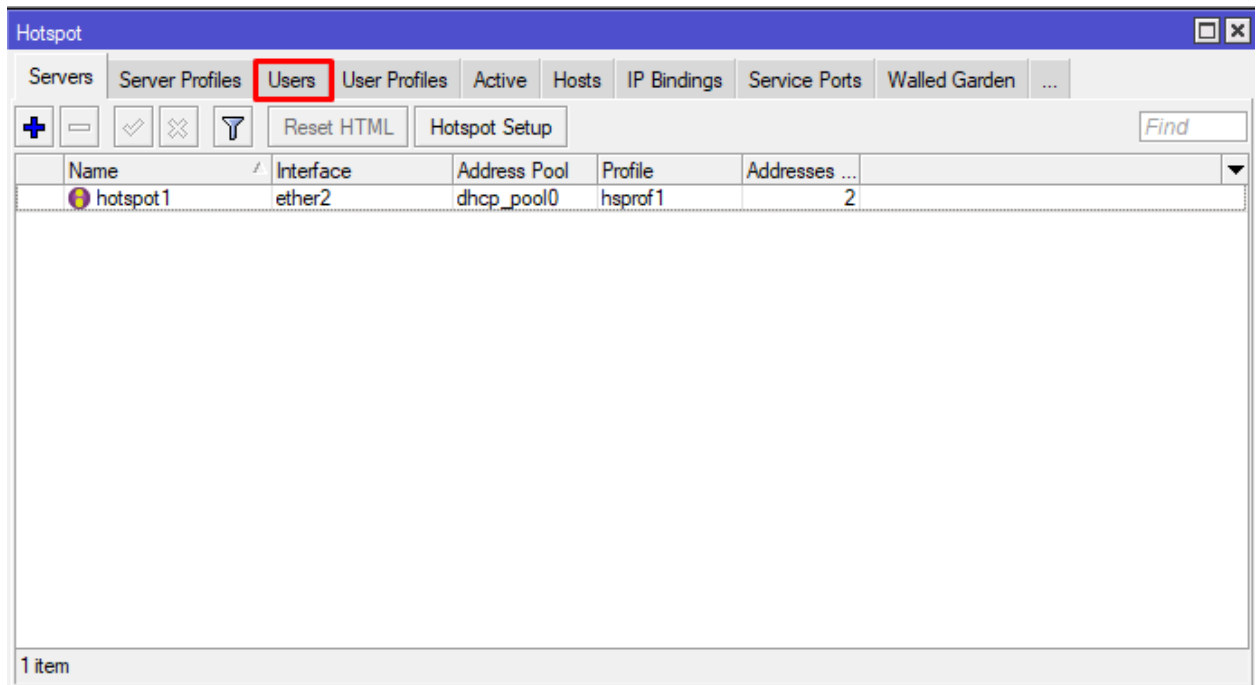
Cancel

Apply

Copy

Remove

12. Di panel Hotspot klik tab Users. Lalu tambah User baru.

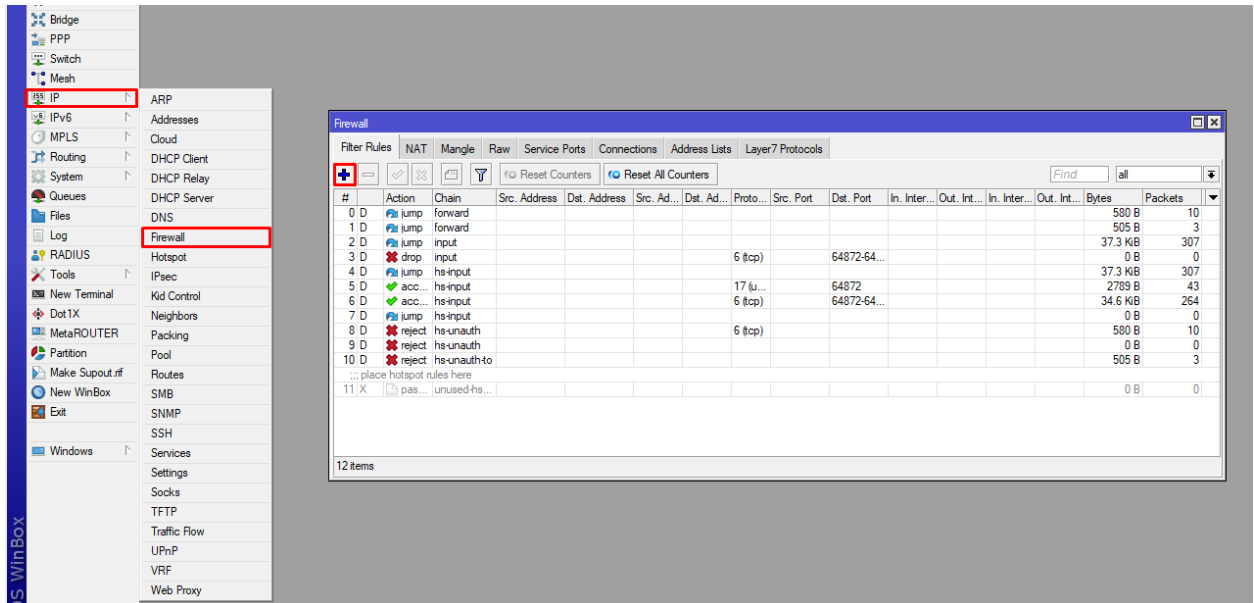


13. Isi Beberapa kolom berikut menyesuaikan dengan Topologi. Isi kolom Name dengan “guru”, isi kolom Password dengan “guru123”, isi kolom Profile dengan “guru”. dan lakukan hal yang sama pada user “kary” dan “sis”.

14. Untuk Pengujiannya dapat dilakukan dengan mengkoneksikan Device ke Access Point.

E. BLOCK CLIENT PC KE CLIENT AP MELALUI CMD

1. Pilih Menu IP lalu pilih sub menu Firewall, lalu tambah Filter Rule baru.



2. Pada tab General isi kolom Chain dengan "forward", lalu isi kolom Protocol dengan "icmp", lalu isi kolom In. Interface dengan "ether3", kemudian isi kolom Out. Interface dengan "ether2".

New Firewall Rule

General Advanced Extra Action Statistics

Chain: forward

Src. Address:

Dst. Address:

Src. Address List:

Dst. Address List:

Protocol: ☐ icmp

Src. Port:

Dst. Port:

Any. Port:

In. Interface: ☐ ether3

Out. Interface: ☐ ether2

In. Interface List:

Out. Interface List:

Packet Mark:

Connection Mark:

Routing Mark:

Connection Type:

Connection State:

Connection NAT State:

enabled

OK

Cancel

Apply

Disable

Comment

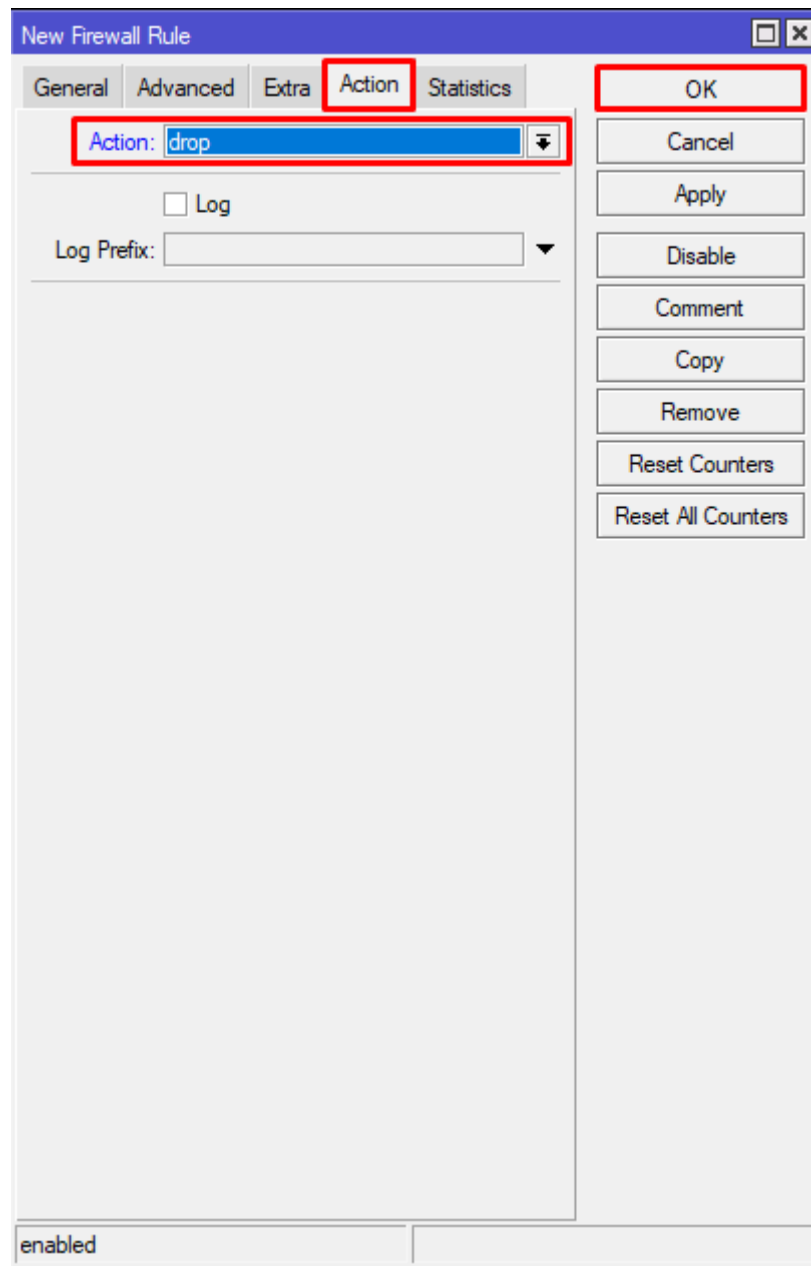
Copy

Remove

Reset Counters

Reset All Counters

3. Pada tab Action isi kolom Action dengan "drop".



4. Lakukan pengujian dengan Command Prompt di Windows, ping ke IP Address Client AP (192.168.77.46).