PRAKTIKUM JARINGAN KOMPUTER PROGRES 2 UAS (UJIAN AKHIR SEMESTER)

Dosen Pengampu:

Johan Ericka W.P,M.Kom



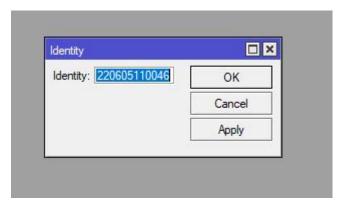
Disusun Oleh:

Azizatul Munawarah (220905110046)

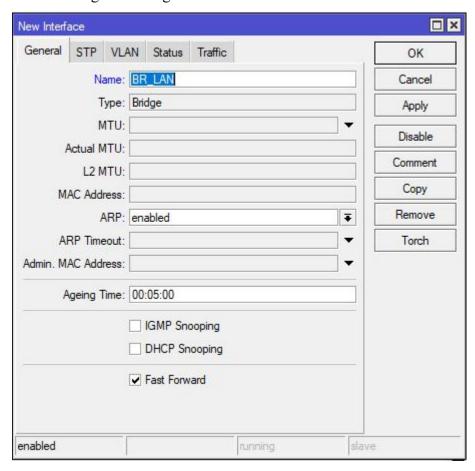
JURUSAN TEKNIK INFORMATIKA FAKULTAS SAINS DAN TEKNOLOGI UINVERSITAS ISLAM NEGERI MAULANA MALIK IBRAHIM MALANG 2024

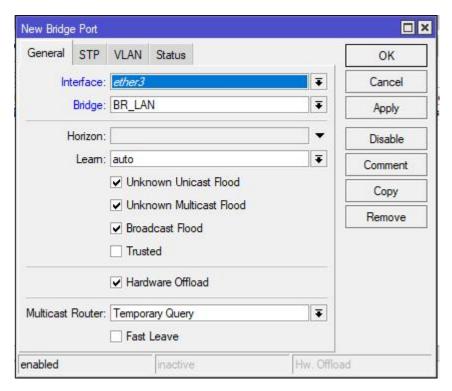
Langkah-langkah setting konfigurasi komputer client :

1. Ubah nama dengan NIM , dengan cara klik system -> identity lalu ubah nama dan klik OK.

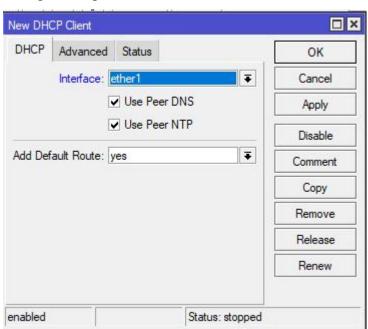


2. Menkonfigurasi Bridge

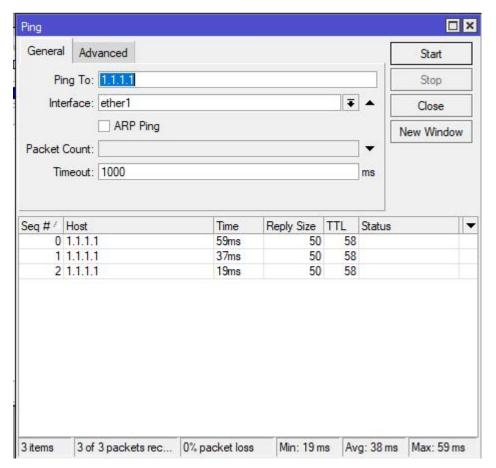




3. Setting DHCP Client. Pertama klik pada menu IP-> DHCP Client-> +. Pastikan konfigurasi seperti dibawah ini :



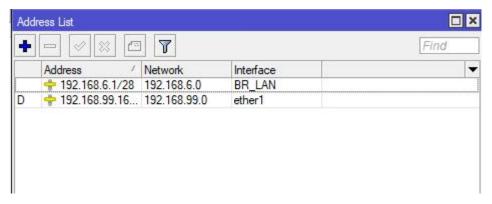
4. Tes koneksi internet dari mikrotik dengan cara klik menu Tools->Ping->start. Dan pastikan mendapat Reply dari 1.1.1.1 .



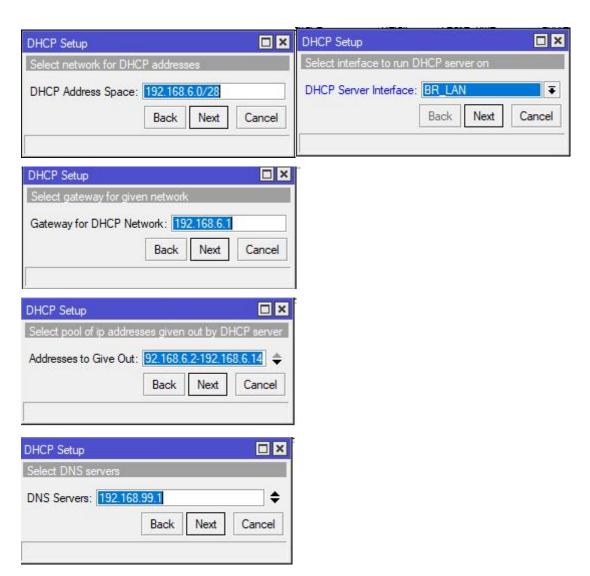
5. Setting DHCP Server .Untuk IP Address nya diubah sesuai NIM saya terakhir 6 . Lalu CIRD nya diubah 6+2 jadi /28. Klik menu IP->Addresses->+ lalu masukkan IP Address kelas C dan sesuai NIM . seperti dibawah ini :



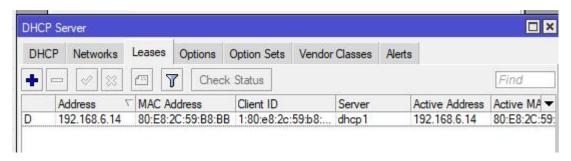
6. Maka addres list akan tampil 2 subnet ether1 dan BR_LAN.



7. Klik IP->DHCP Server->DHCP Setup lalu seterusnya klik next seperti dibawah ini :



8. Pada leases akan tampil komputer yang mendapatkan IP Address dari mikrotik.



9. Lalu buka Command Prompt (cmd) dan ketik ping ke mikrotik (gateway) pastikan mendapatkan hasil reply from gateway.

```
C:\Users\hp>ping 192.168.6.1

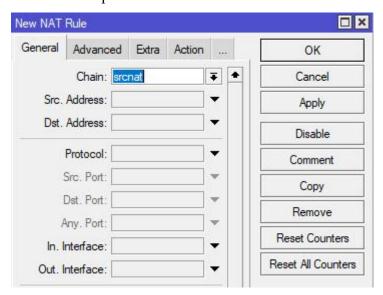
Pinging 192.168.6.1 with 32 bytes of data:
Reply from 192.168.6.1: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.6.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

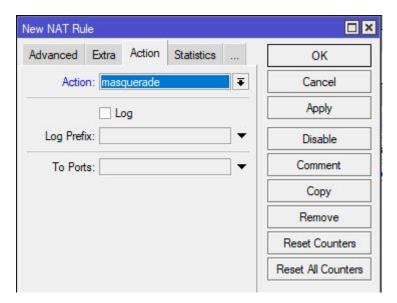
C:\Users\hp>
```

- 10. Komputer client tidak dapat PING ke mikrotik .
- 11. IP->Firewall->NAT->+
- 12. Konfigurasi:

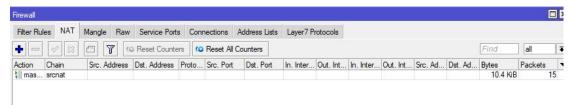
Chain = srcnat

Action = masquerade





13. Akan tampil rule baru di firewall->NAT



14. Lalu di check koneksi internet dengan ping elearning.uin-malang.ac.id pastikan mendapatkan reply from

```
C:\Users\hp>ping elearning.uin-malang.ac.id

Pinging elearning.uin-malang.ac.id [103.17.76.12] with 32 bytes of data:

Reply from 103.17.76.12: bytes=32 time=3ms TTL=59

Reply from 103.17.76.12: bytes=32 time=29ms TTL=59

Reply from 103.17.76.12: bytes=32 time=8ms TTL=59

Reply from 103.17.76.12: bytes=32 time=3ms TTL=59

Ping statistics for 103.17.76.12:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 29ms, Average = 10ms

C:\Users\hp>
```

15. Membuat firewall untul block paket ICMP

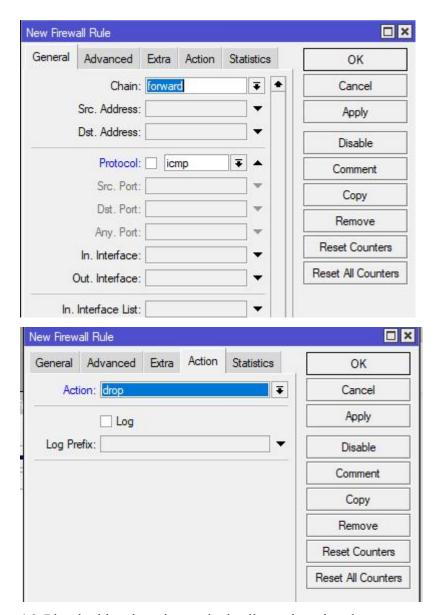
Klik menu ip->firewall->filter rules->+

Konfigurasi firewall

Chain=forward

Protocol=icmp

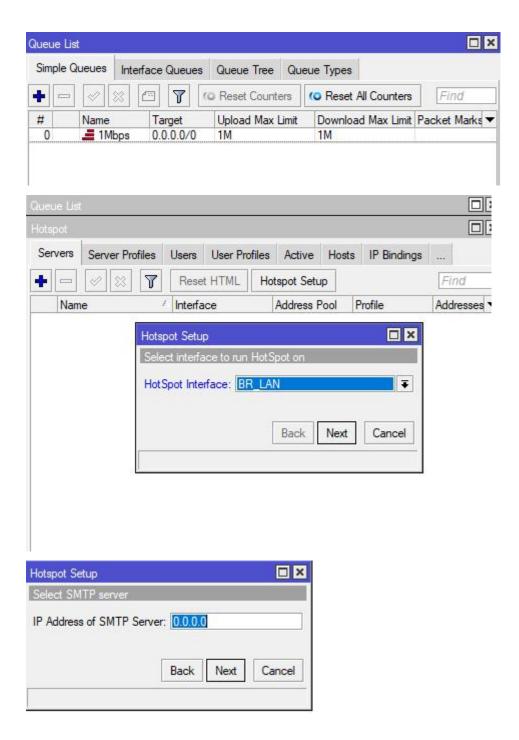
Action=drop

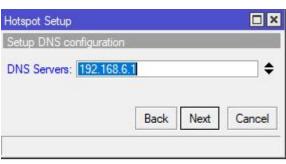


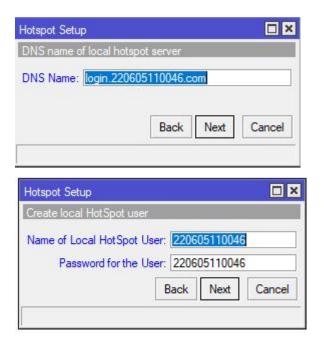
16. Ping lagi ke elearning maka hasilnya akan timed out

```
C:\Users\hp>ping elearning.uin-malang.ac.id
Pinging elearning.uin-malang.ac.id [103.17.76.12] with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 103.17.76.12:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Users\hp>
```

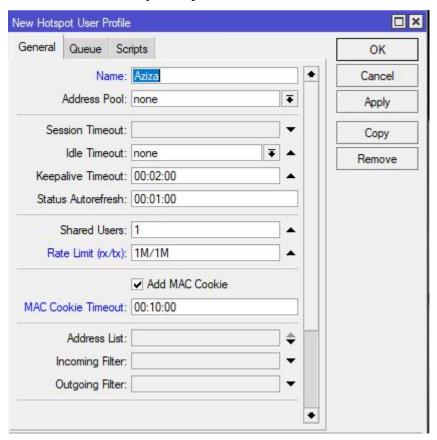
17. Komputer client dapat mengkases internet dengan batasan bandwith 1Mbps/1Mbps (up/down) setelah login.

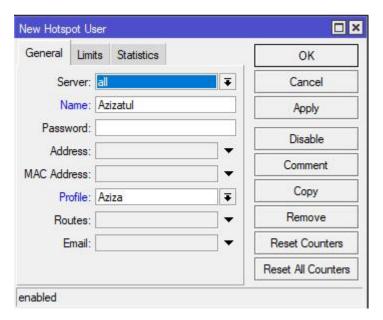






18. Ubah rate Limit nya menjadi 1M/1M:





19. Login menggunakan users seperti dibawah ini

