Konfigurasi Router RIP Mikrotik

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Daftar Isi

Konfigurasi Router RIP Mikrotik

Tutorial kali ini kita bahas konfigurasi Router RIP menggunakan Mikrotik. Keuntungan menggunakan Routing Dinamis seperti RIP kita tidak perlu capek – capek melakukan statik routing yang cukup menguras tenaga dan pikiran. Pada routing RIP apabila kita melakukan perubahan atau penambahan subnet mikrotik, subnet tersebut cukup di daftarkan pada Networks RIP, maka secara otomatis router lain nya akan mendeteksi penambahan routing subnet baru tersebut. Tanpa perlu melakukan NAT dan Static routing.

Topologi Router RIP Mikrotik

Pada gambar topologi kita memiliki tiga mikrotik R1, R2 dan R3, serta pc klien MS Windows XP yang tersambung pada R3. PC Klien MS Windows 7 tersambung pada R2.
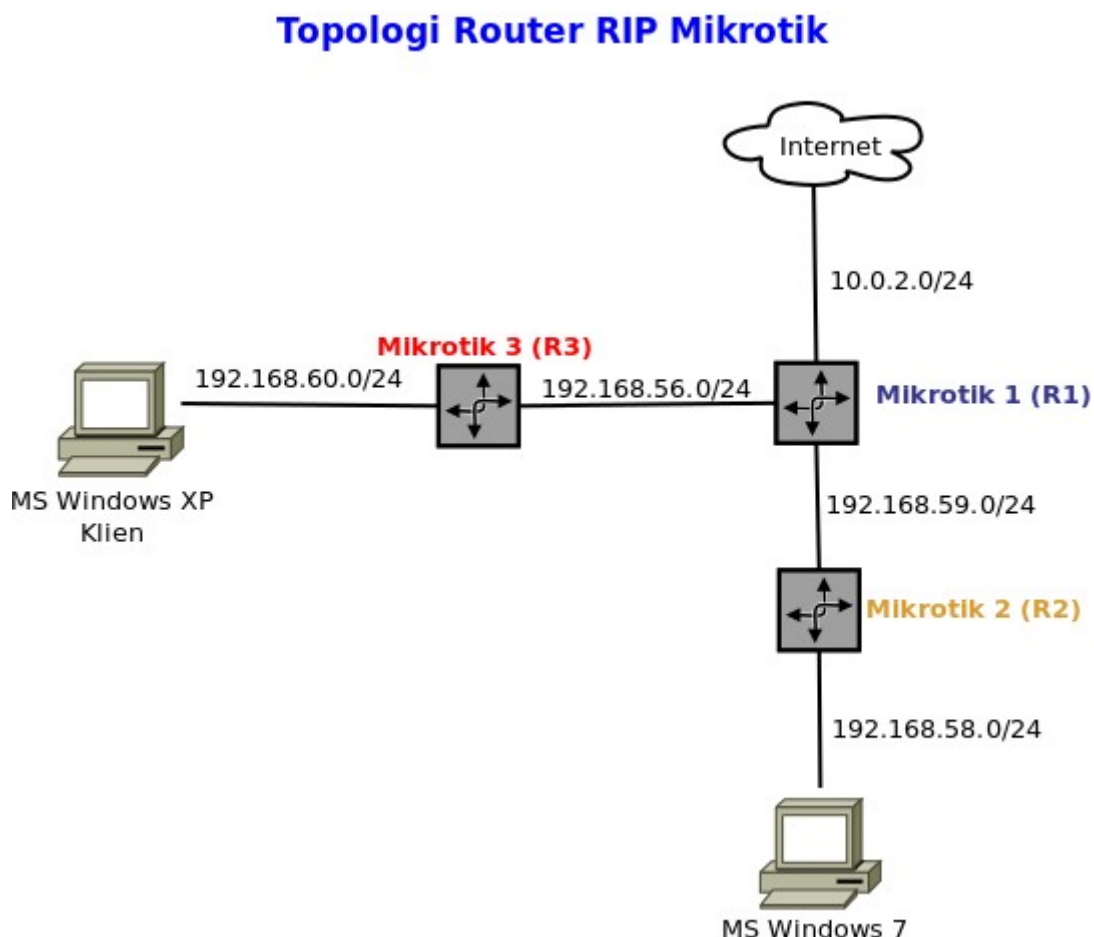
Konfigurasi Alamat IP R1, R2 dan R3

R1 memiliki IP address dan subnet
ether1 = 10.0.2.15 / net: 10.0.2.0/24 (koneksi ke internet)
ether2 = 192.168.56.38 / net: 192.168.56.0/24 (koneksi R1 ke R3)
ether3 = 192.168.59.20 / net: 192.168.59.0/24 (koneksi R1 ke R2)

R2 memiliki IP Address dan subnet
ether1 = 192.168.59.40 / net: 192.168.59.0/24 (koneksi R2 ke R1)
ether3 = 192.168.58.56 / net: 192.168.58.0/24 (koneksi R2 ke PC Klien MS Windows 7)
ether2,vlan1,vlan2 abaikan saja

R3 memiliki IP Address dan subnet
ether1 = 192.168.56.39 / net : 192.168.56.0/24 (koneksi R3 ke R1)
ether2 = 192.168.60.2 / net: 192.168.60.0/24 (Koneksi R3 ke PC Klien MS Windows XP)

PC MS Windows 7 (Posisi di bawah R2)
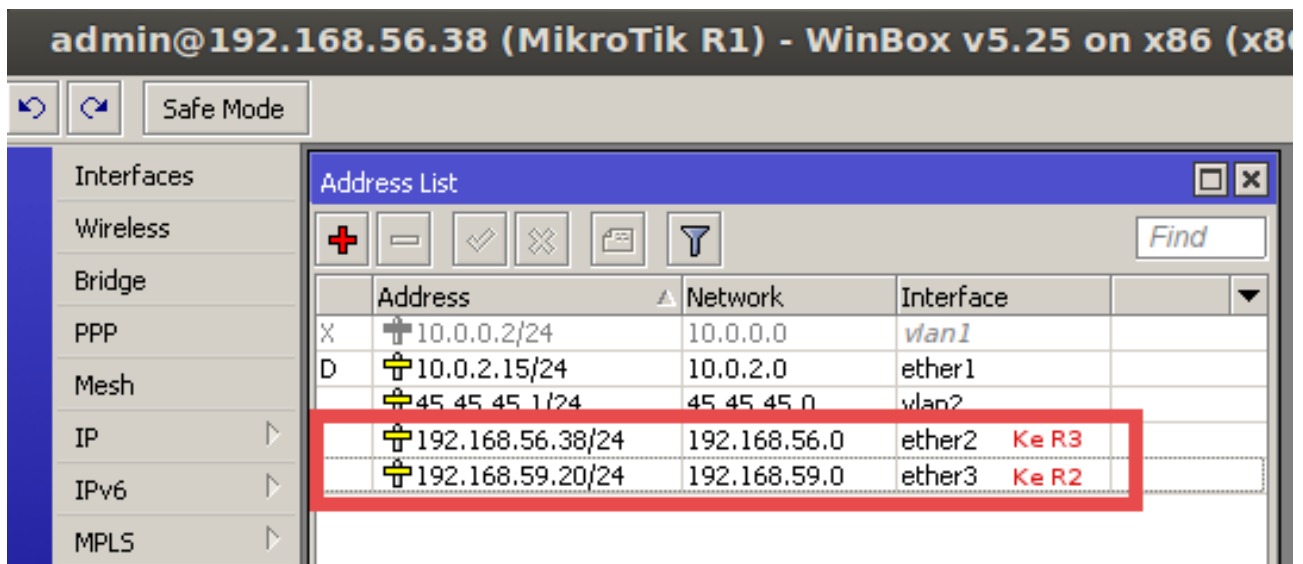IP Address: 192.168.58.10
Gateway : 192.168.58.56
DNS: 8.8.8.8 & 8.8.4.4
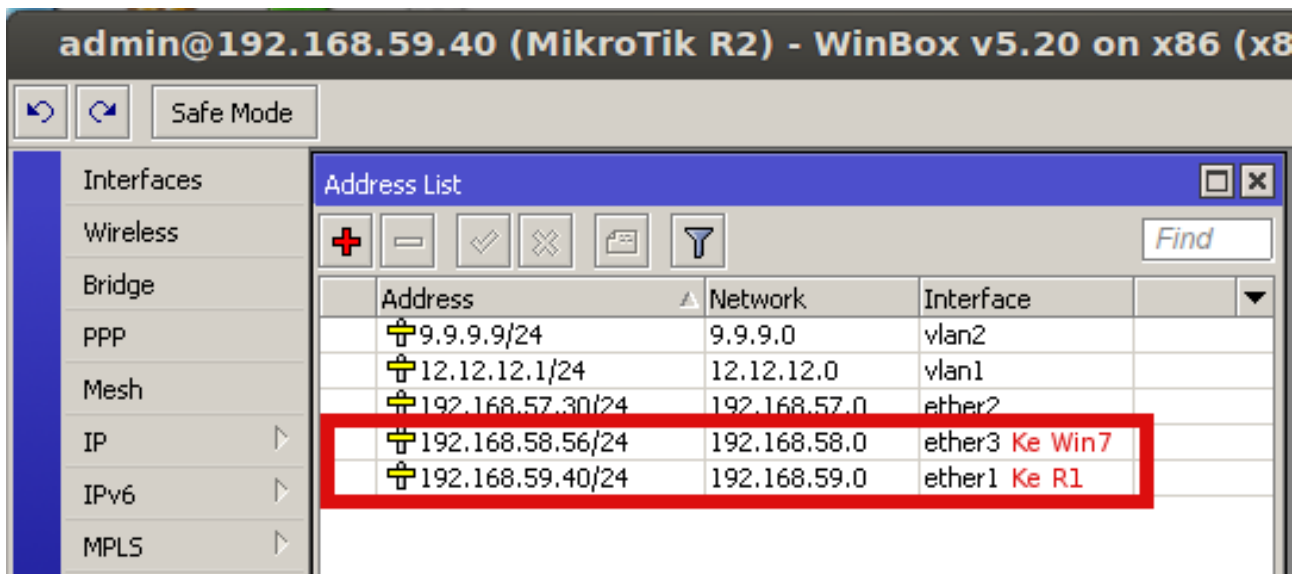
PC MS Windows XP (Posisi di bawah R3)
IP Address : 192.168.60.77
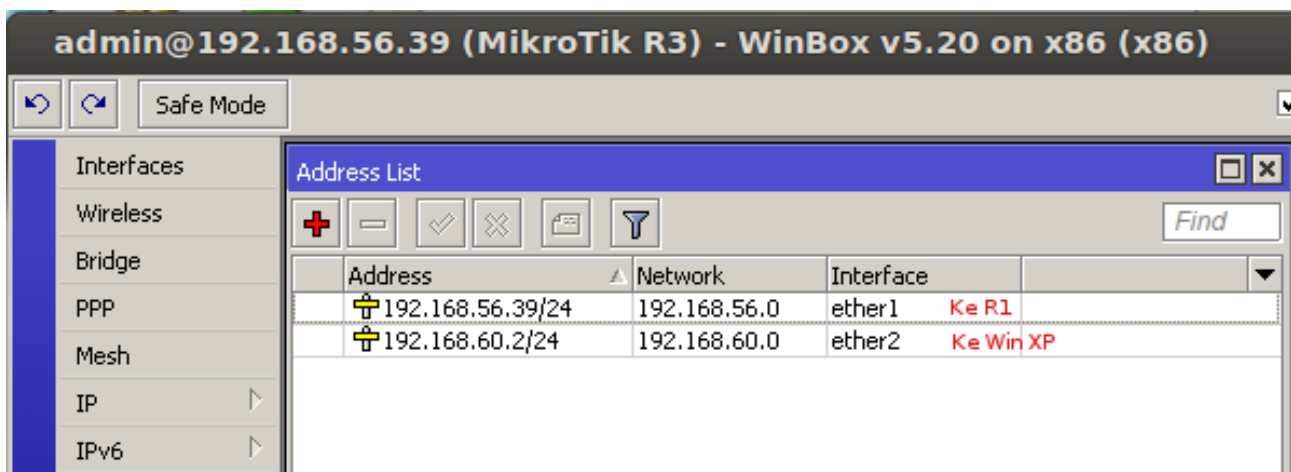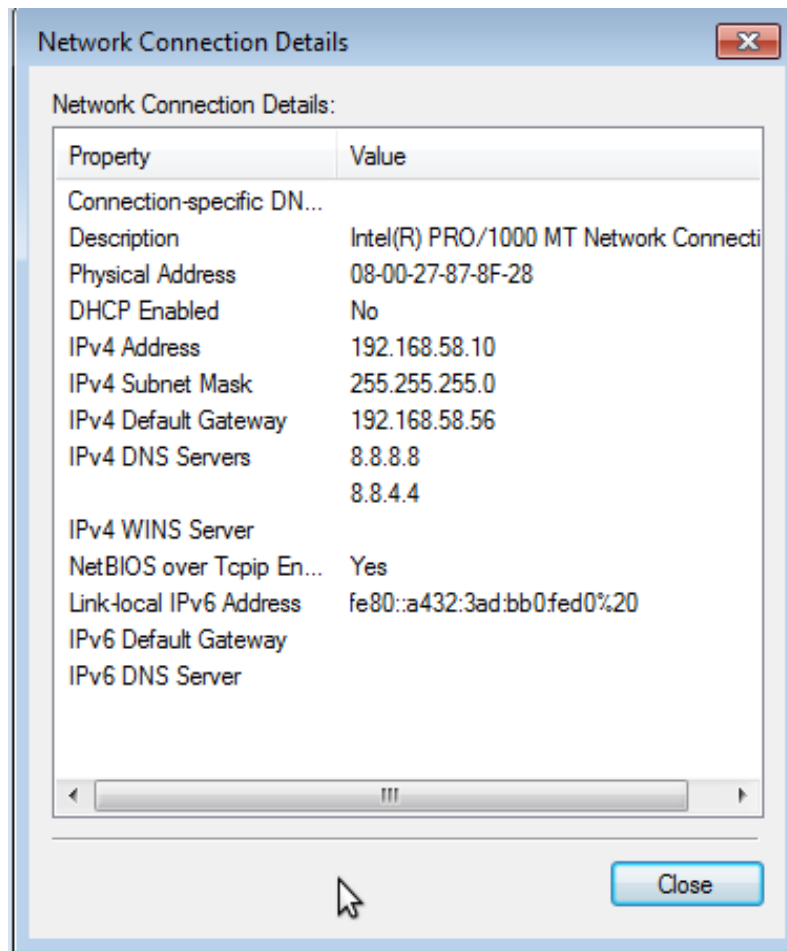Gateway: 192.168.60.2
DNS: 8.8.8.8 & 8.8.4.4

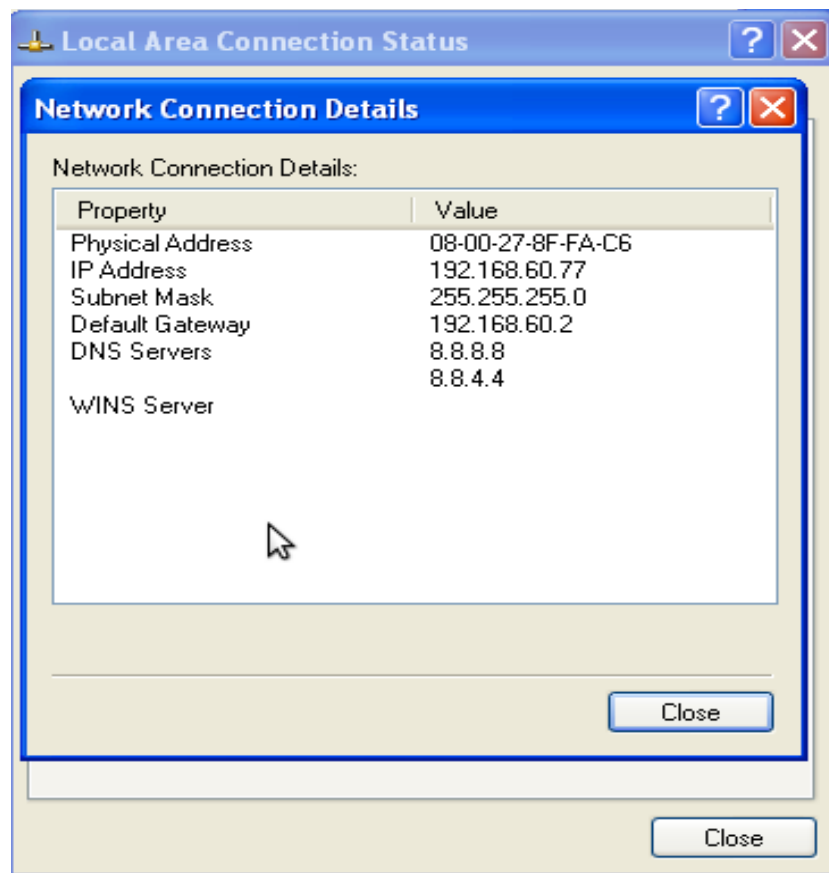**Gambar 1: Alamat IP Mikrotik R1**

Gambar 2: Alamat IP Mikrotik R2

Gambar 3: Alamat IP Mikrotik R3

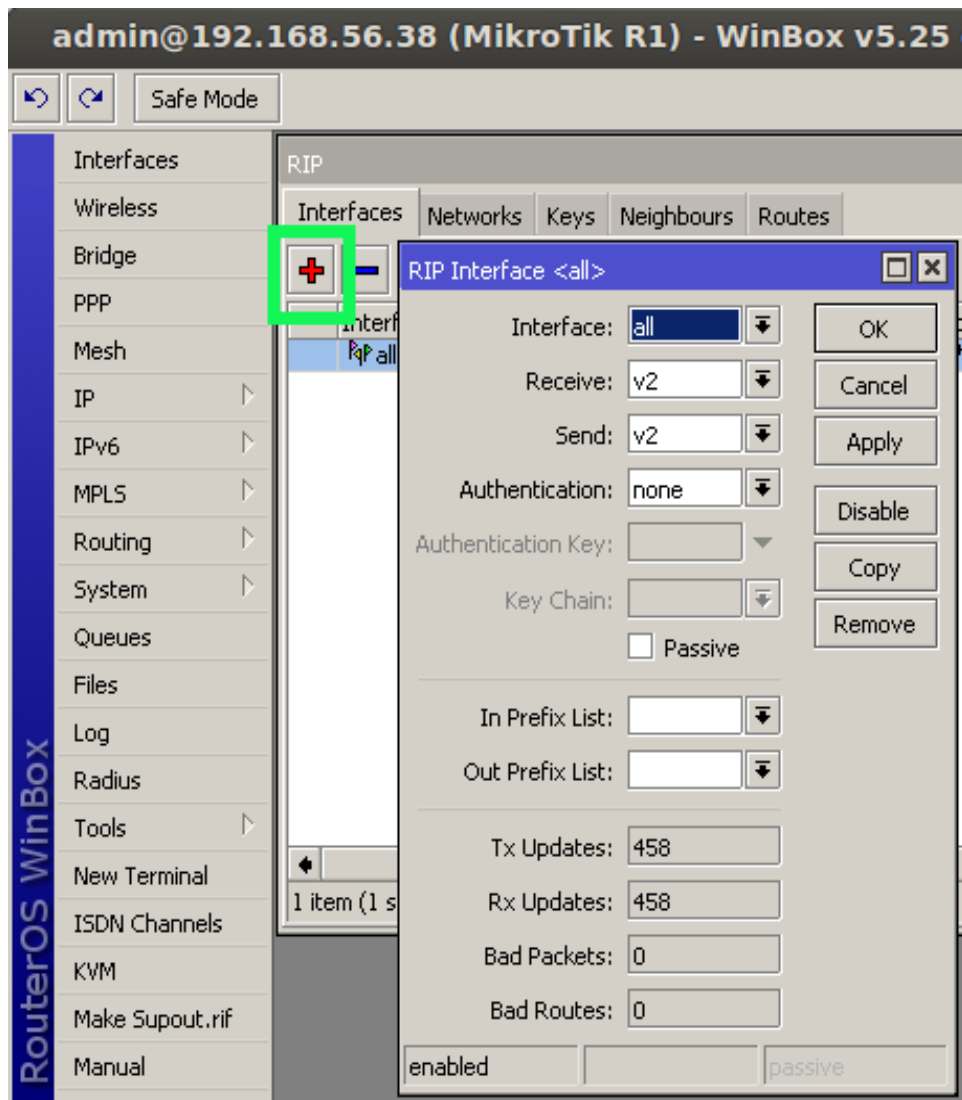*Gambar 4: Alamat IP PC Klien MS Windows 7*

Gambar 5: Alamat IP PC Klien MS Windows XP

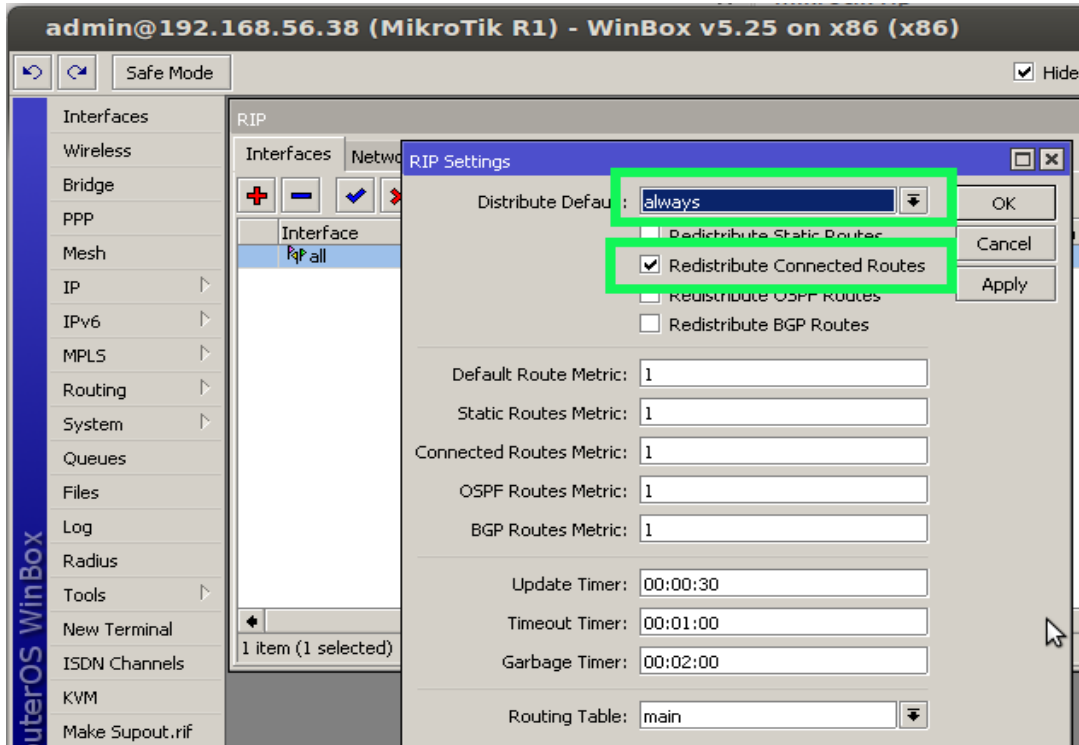### Konfigurasi RIP Router Mikrotik R1

klik **Routing -> RIP**
Pada **Interfaces** klik + (Setelah konfigurasi klik Apply dan Ok)
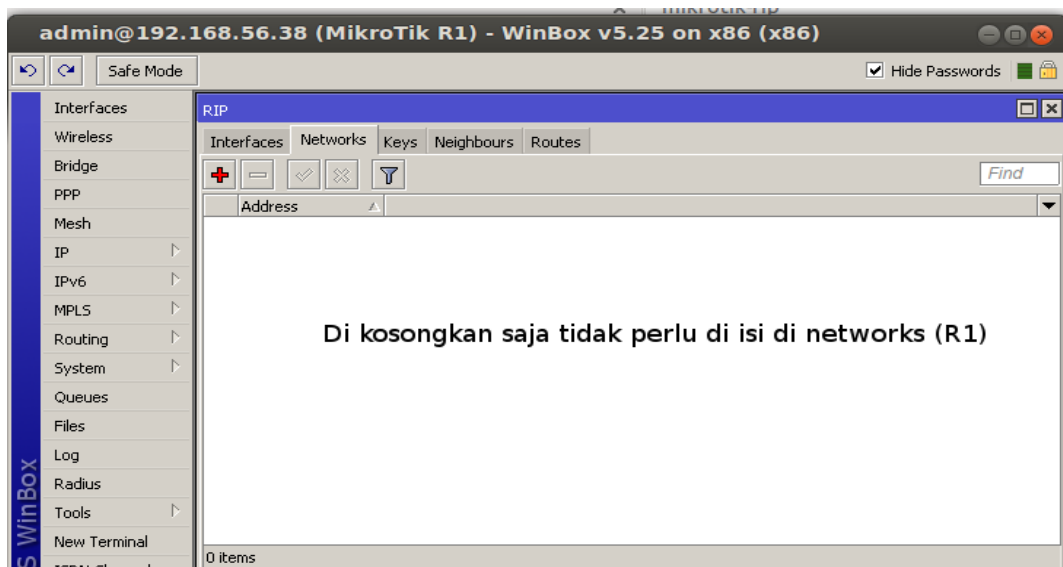

Gambar 6: Konfigurasi Interfaces RIP R1

Kemudian klik **RIP Settings pada menu interfaces**
Kita redistribute semua subnet yg terkoneksi dengan R1, karena R1 adalah gateway yang terhubung langsung dengan internet.
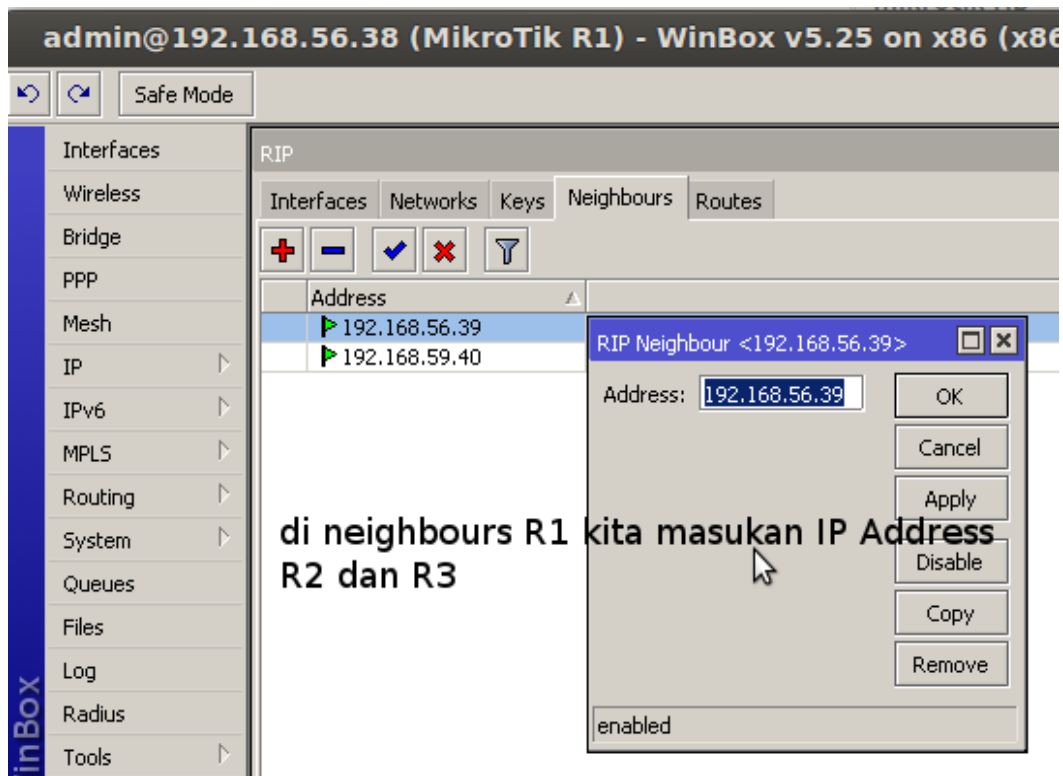

Gambar 7: RIP Settings R1

Pada settingan **Networks** kita kosongkan, karena subnet sudah di redistribute jadi tidak perlu di definisikan lagi.
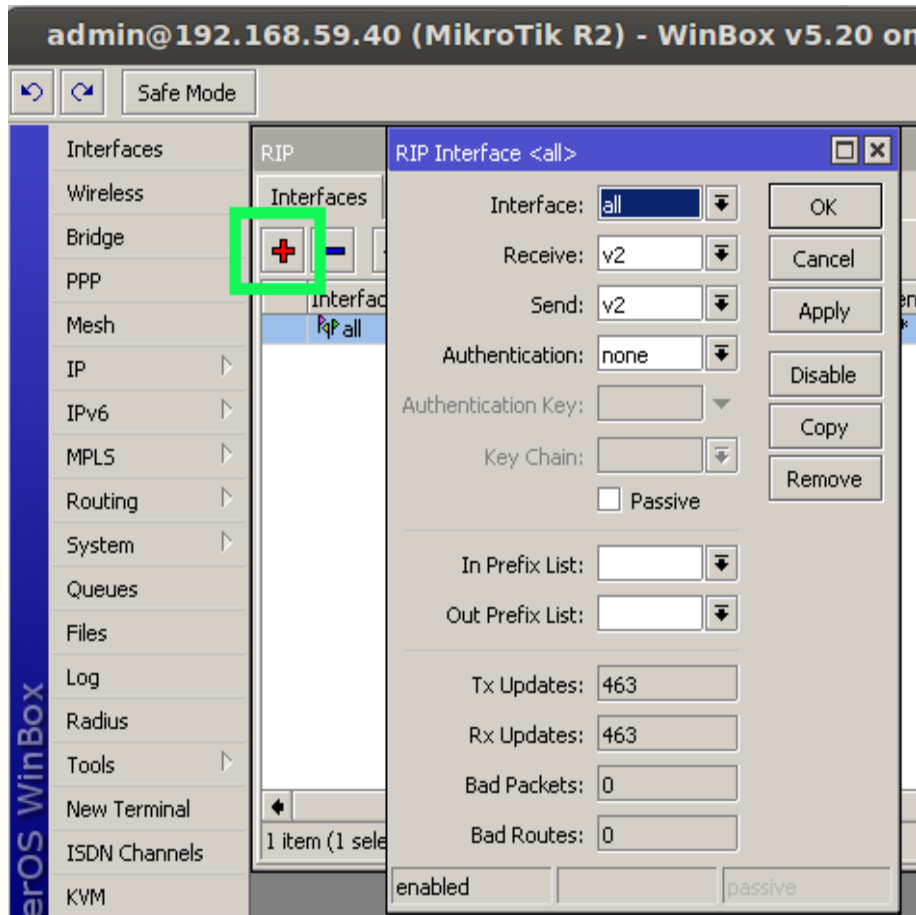

Gambar 8: Networks RIP R1

Pada Settingan **Neighbours** kita masukan alamat IP R2 dan R3 yang ke arah R1
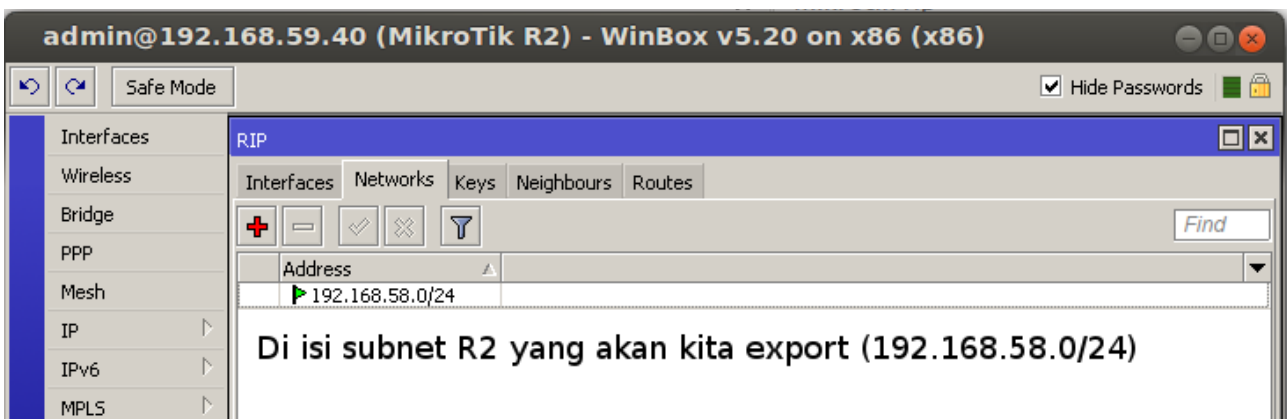

Gambar 9: Neighbours RIP R1

Konfigurasi Router RIP Mikrotik R2

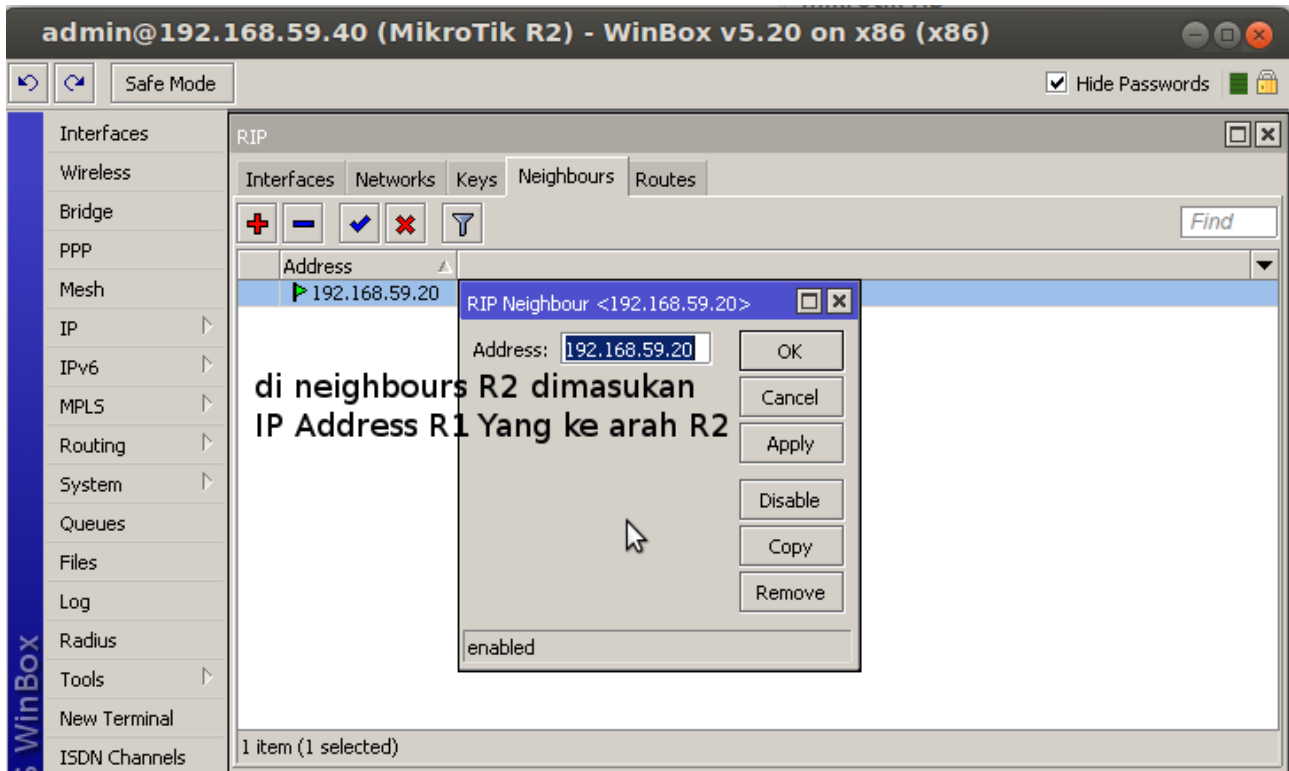Klik **Routing -> RIP -> Interfaces -> +**

Gambar 10: Konfigurasi Interfaces RIP R2

Klik menu **Networks**, kita masukan network 192.168.58.0/24 yang akan di export ke routing RIP.
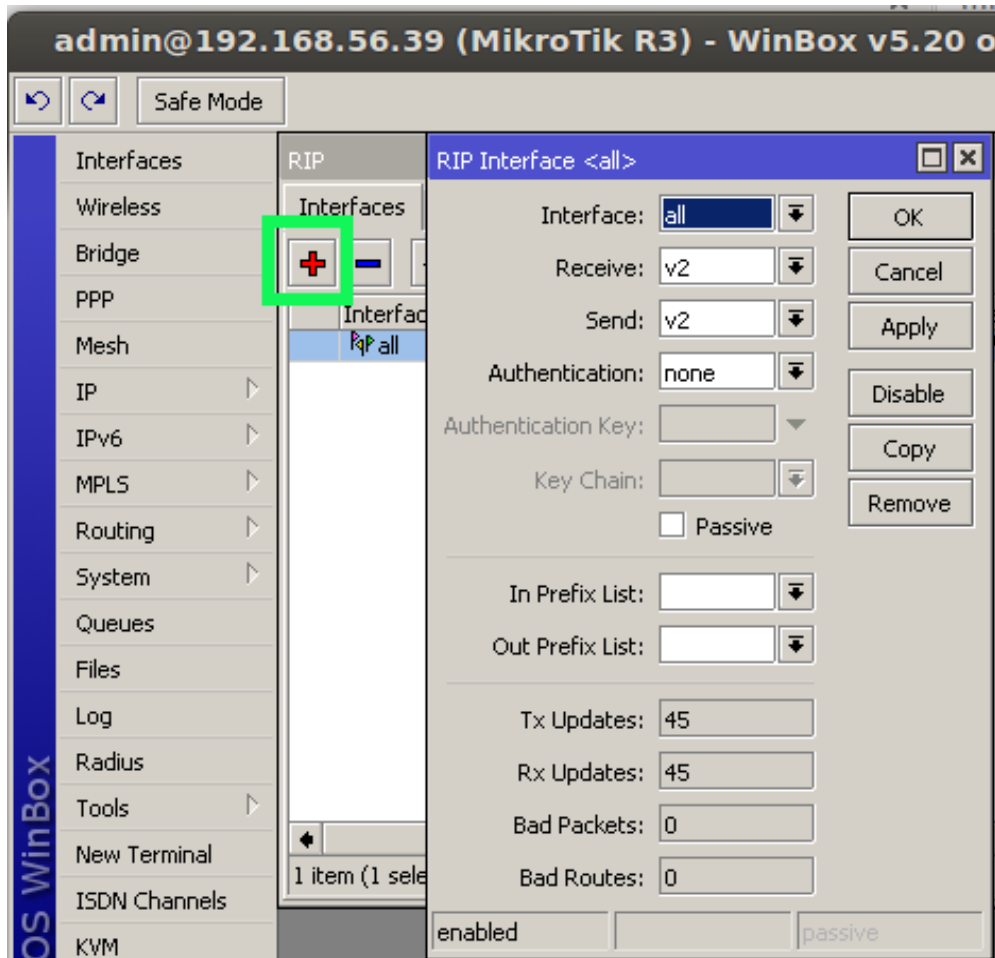

Gambar 11: Konfigurasi Networks RIP R2

Klik **Neighbours**, kita masukan alamat IP R1 192.168.59.20 yang ke arah R2. Klik Apply kemudian Ok.

Gambar 12: Konfigurasi Neighbours RIP R2

Konfigurasi Router RIP Mikrotik R3

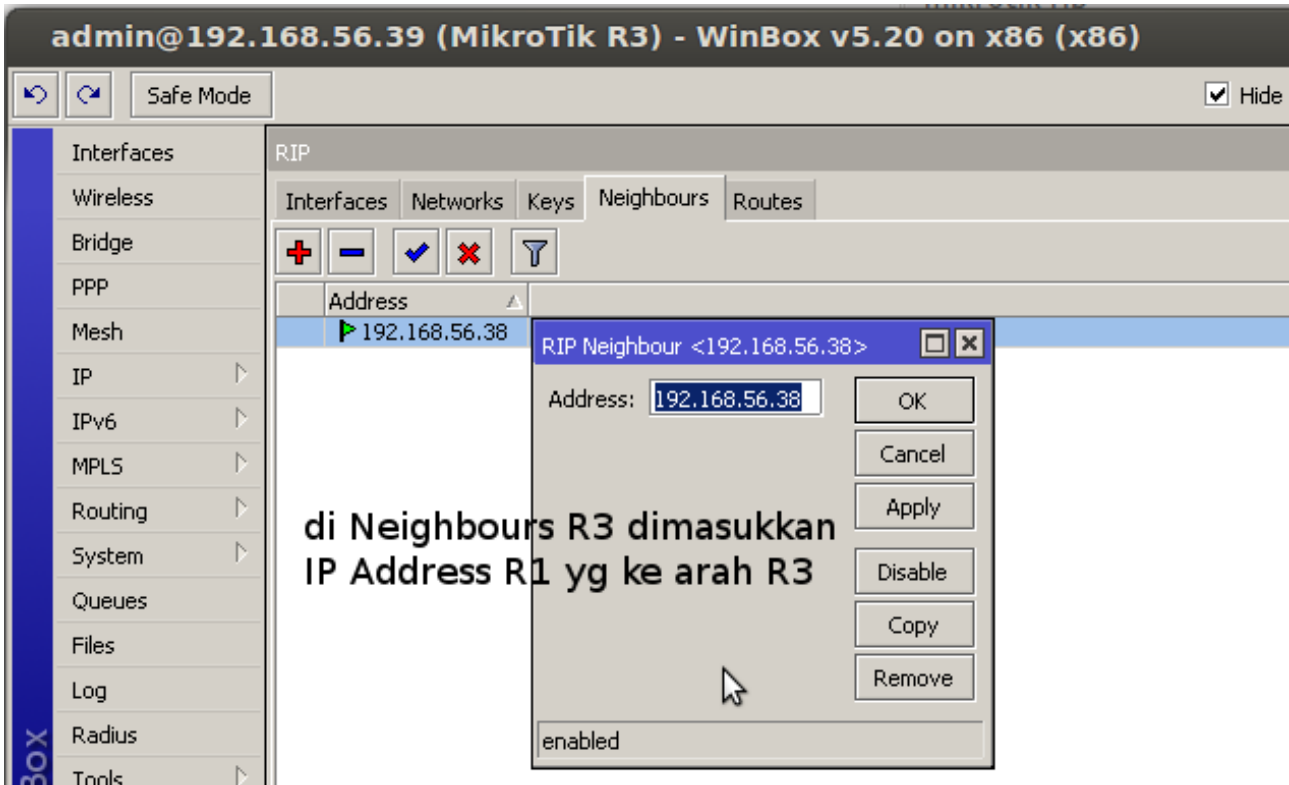Klik **Routing** -> **RIP** -> **Interfaces** -> **+**

Gambar 13: Konfigurasi Interfaces RIP R3

Klik menu **Networks**, kita masukan network 192.168.60.0/24 yang akan di export ke routing RIP.

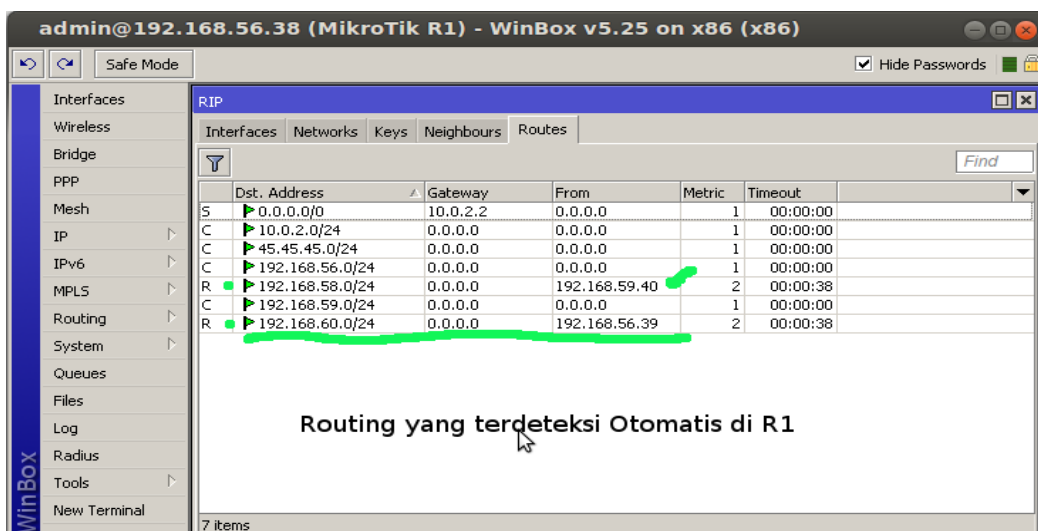*Gambar 14: Konfigurasi Networks RIP R3*

Klik **Neighbours**, kita masukan alamat IP R1 192.168.56.38 yang ke arah R3. Klik Apply kemudian Ok.
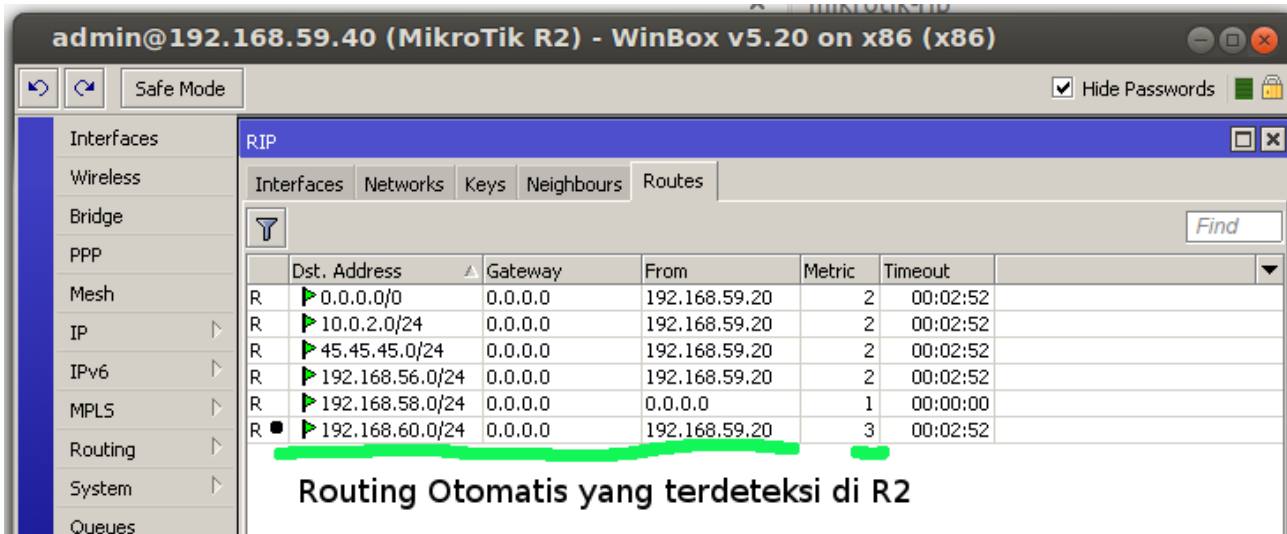

Gambar 15: Konfigurasi Neighbours RIP R3
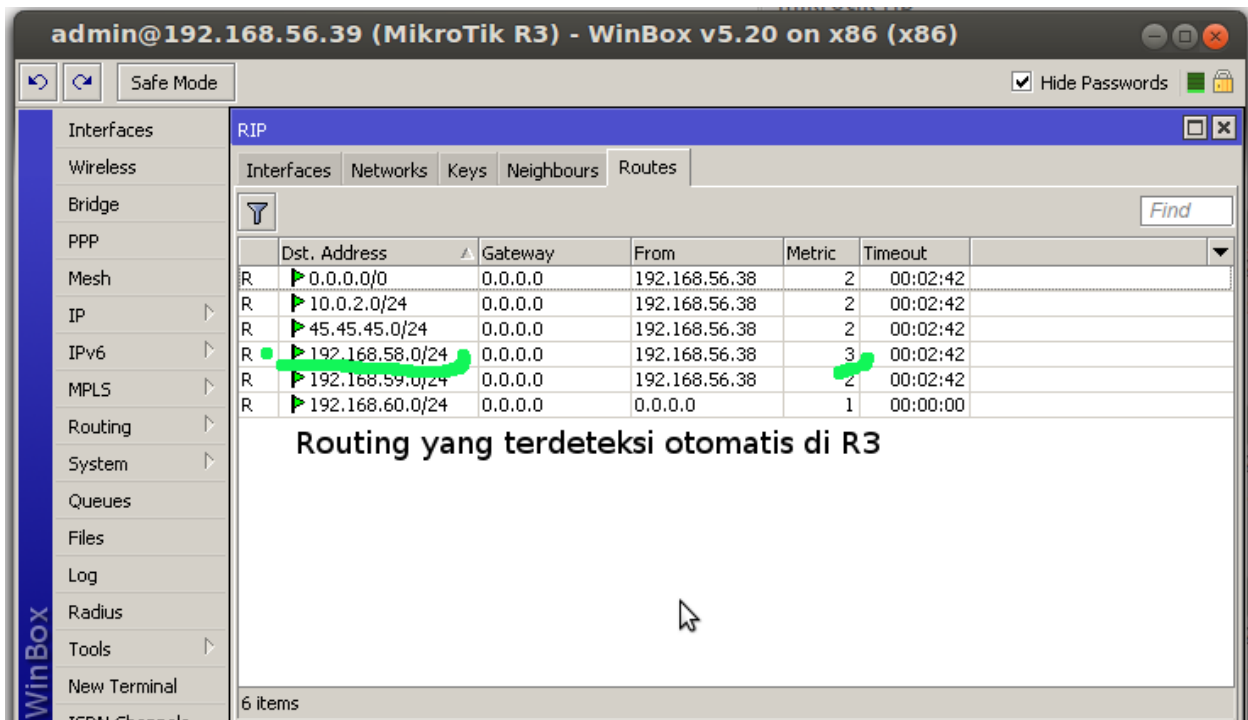
Routing RIP yang terdeteksi otomatis

Klik Routes pada Mikrotik R1, R2 dan R3.
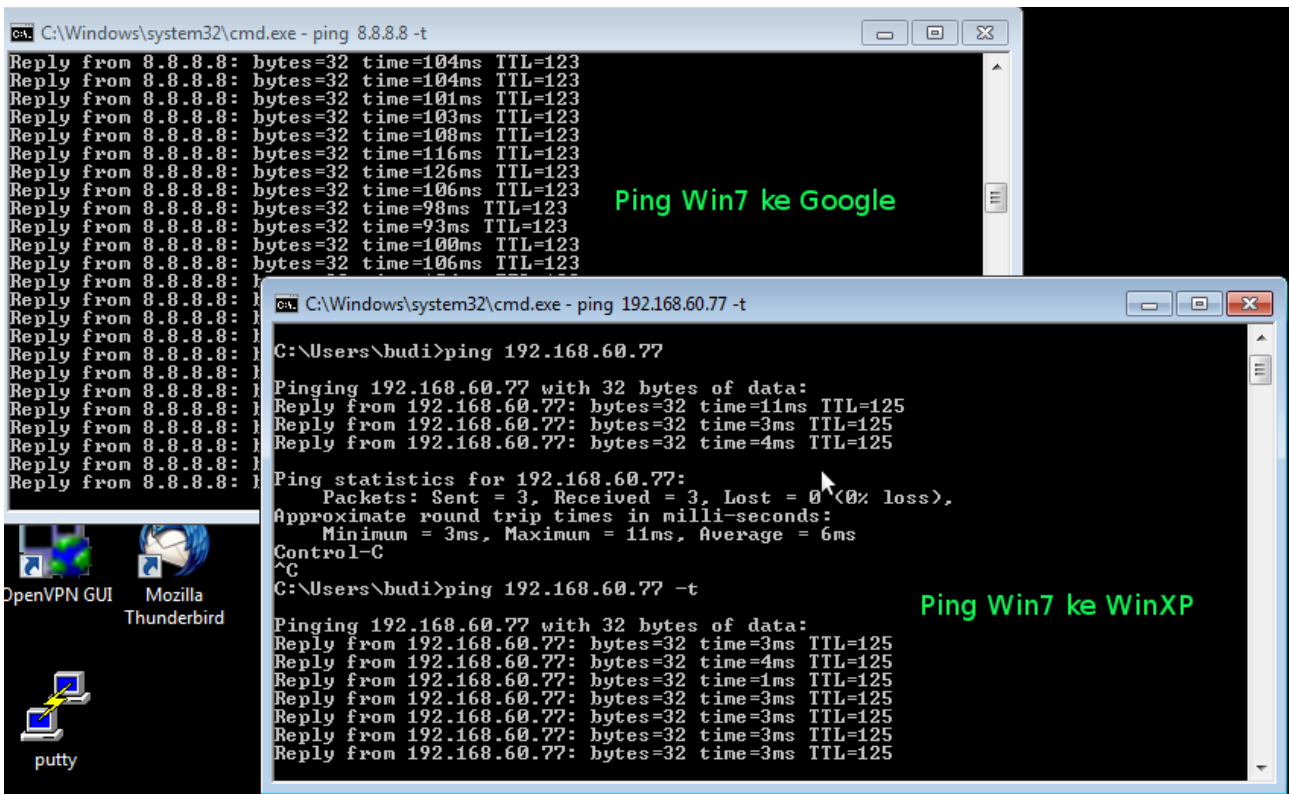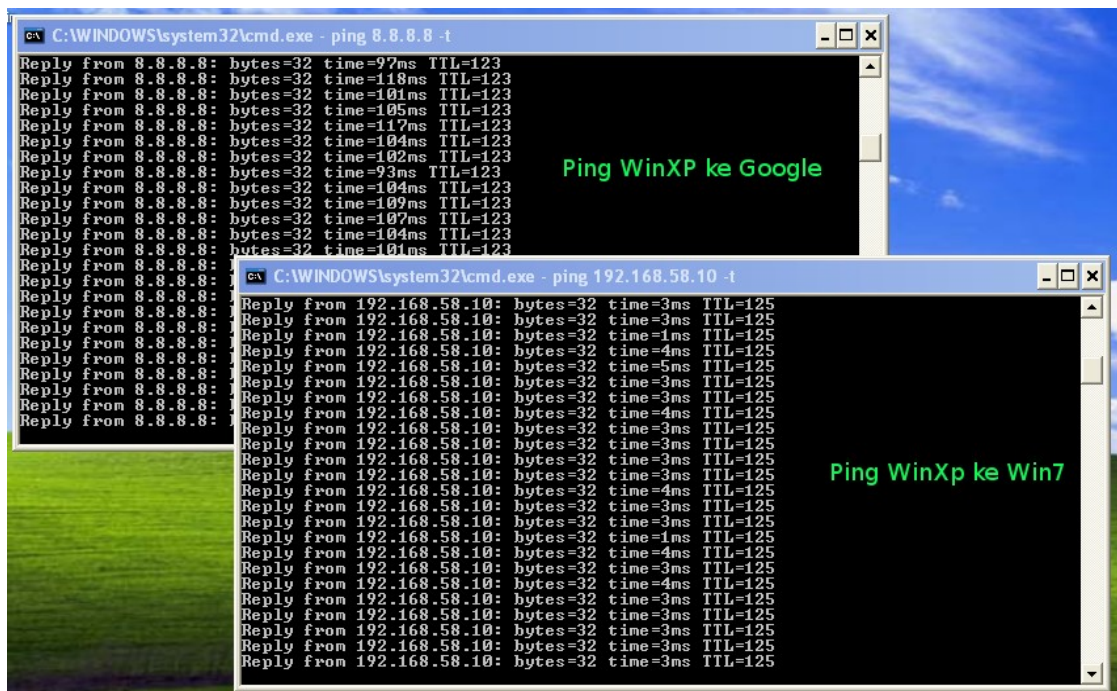

Gambar 16: Routes RIP R1

Gambar 17: Routes RIP R2

Gambar 18: Routes RIP R3
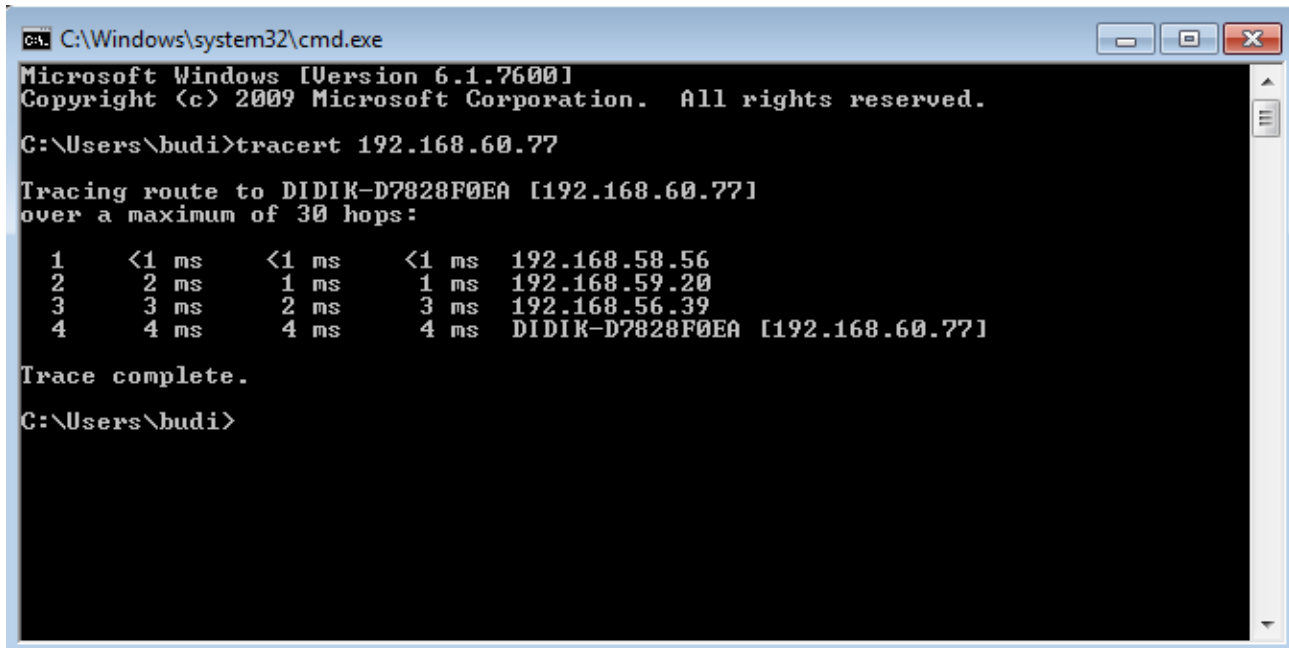
Pengujian koneksi MS Windows XP dan MS Windows7

Gambar 19: Ping MS Windows 7

Gambar 20: Ping MS Windows XP

Test Traceroute WinXP dan Win7


```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\budi>tracert 192.168.60.77

Tracing route to DIDIK-D7828F0EA [192.168.60.77]
over a maximum of 30 hops:

  1    <1 ms    <1 ms    <1 ms  192.168.58.56
  2     2 ms     1 ms     1 ms  192.168.59.20
  3     3 ms     2 ms     3 ms  192.168.56.39
  4     4 ms     4 ms     4 ms  DIDIK-D7828F0EA [192.168.60.77]

Trace complete.

C:\Users\budi>
```
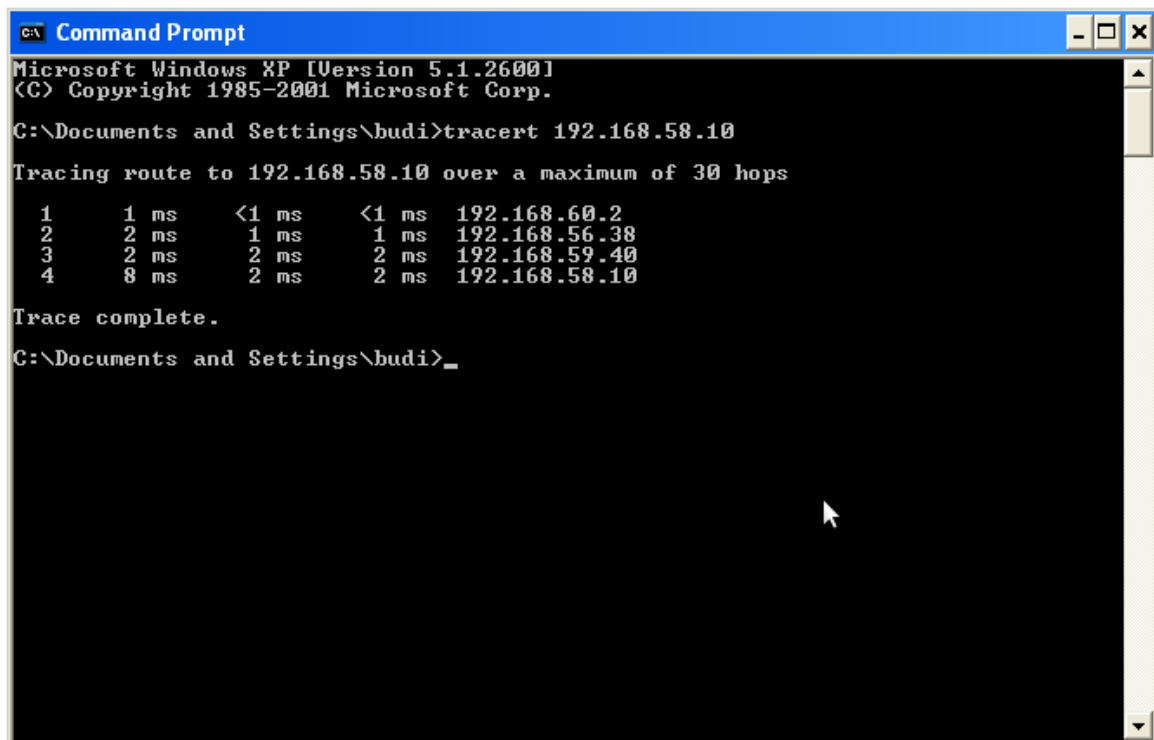
Gambar 21: Traceroute Win7 ke WinXP


```
Command Prompt

Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\budi>tracert 192.168.58.10

Tracing route to 192.168.58.10 over a maximum of 30 hops

  1     1 ms    <1 ms    <1 ms  192.168.60.2
  2     2 ms     1 ms     1 ms  192.168.56.38
  3     2 ms     2 ms     2 ms  192.168.59.40
  4     8 ms     2 ms     2 ms  192.168.58.10

Trace complete.

C:\Documents and Settings\budi>
```

Gambar 22: Traceroute WInXP ke Win7