Komunikasi Data dan Jaringan Komputer

(LAPORAN PRAKTIKUM Konfigurasi Routing RIP)

Oleh

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PROGRAM STUDI D3 MANAJEMEN INFORMATIKA

JURUSAN ILMU KOMPUTER

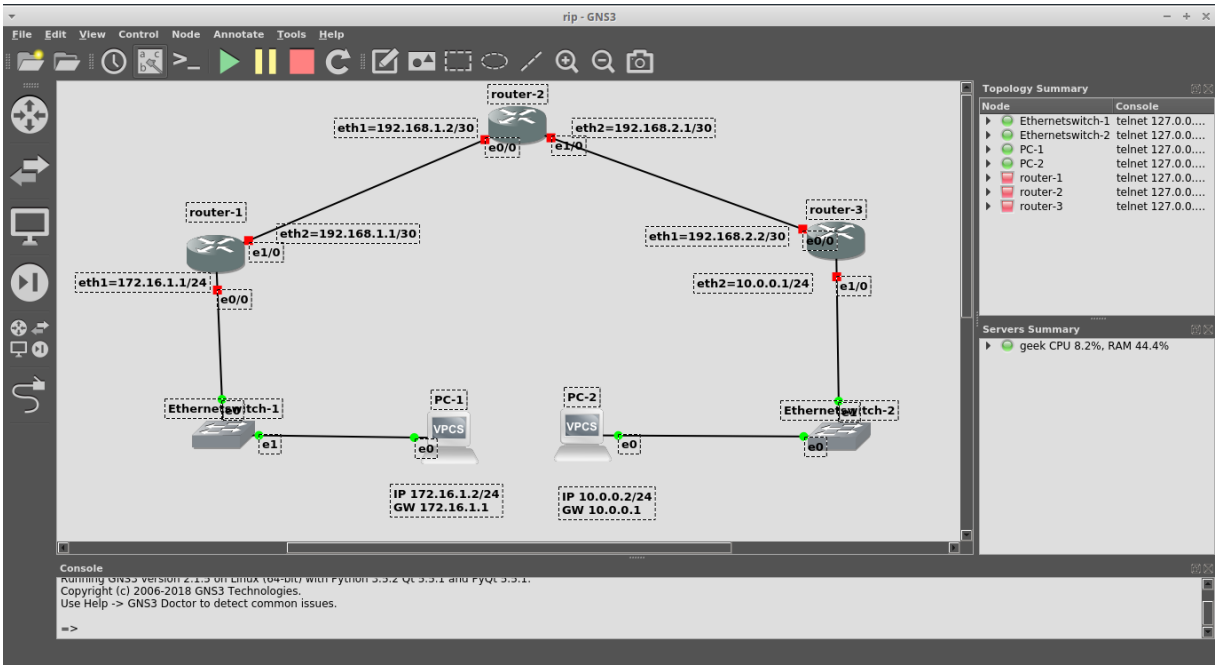
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN

UNIVERSITAS LAMPUNG

2018

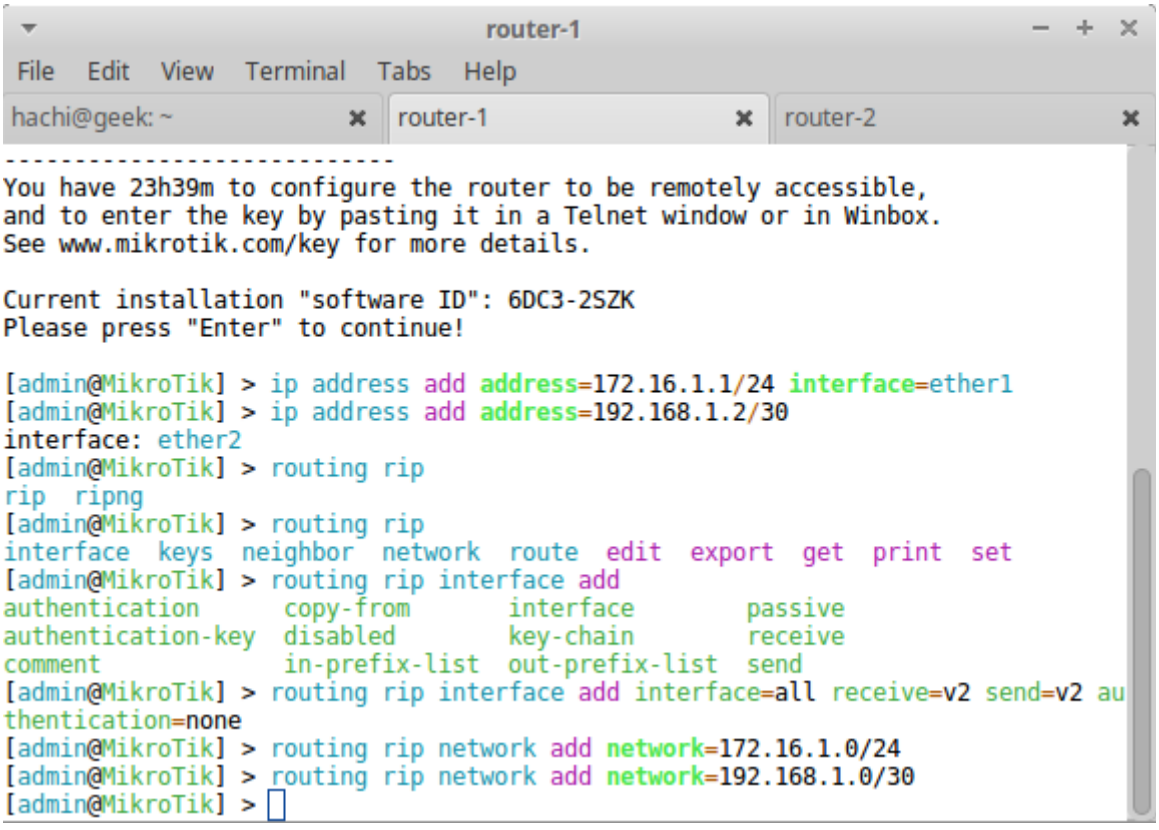
KONFIGURASI ROUTING RIP PADA GNS3

1. Buat Topologi seperti contoh dibawah

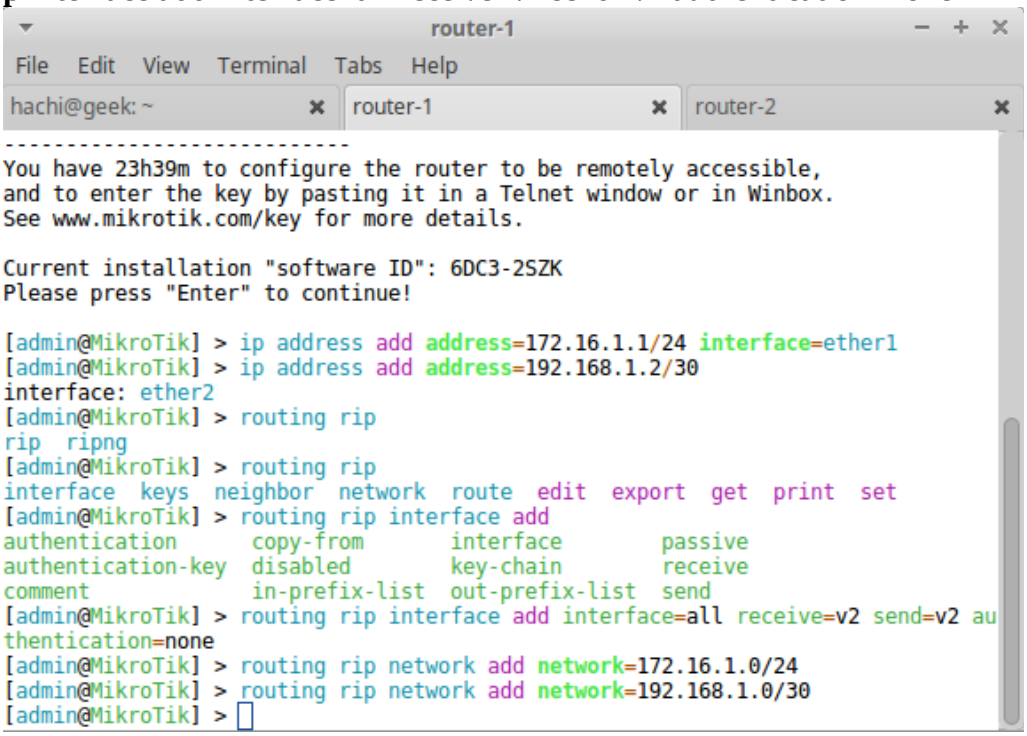


- Konfigurasi Pada **router1**

Setting ip pada masing masing ether, dengan perintah
ip address add address=172.16.1.1/24 interface=ether1
ip address add address=192.168.1.2/30 interface=ether2



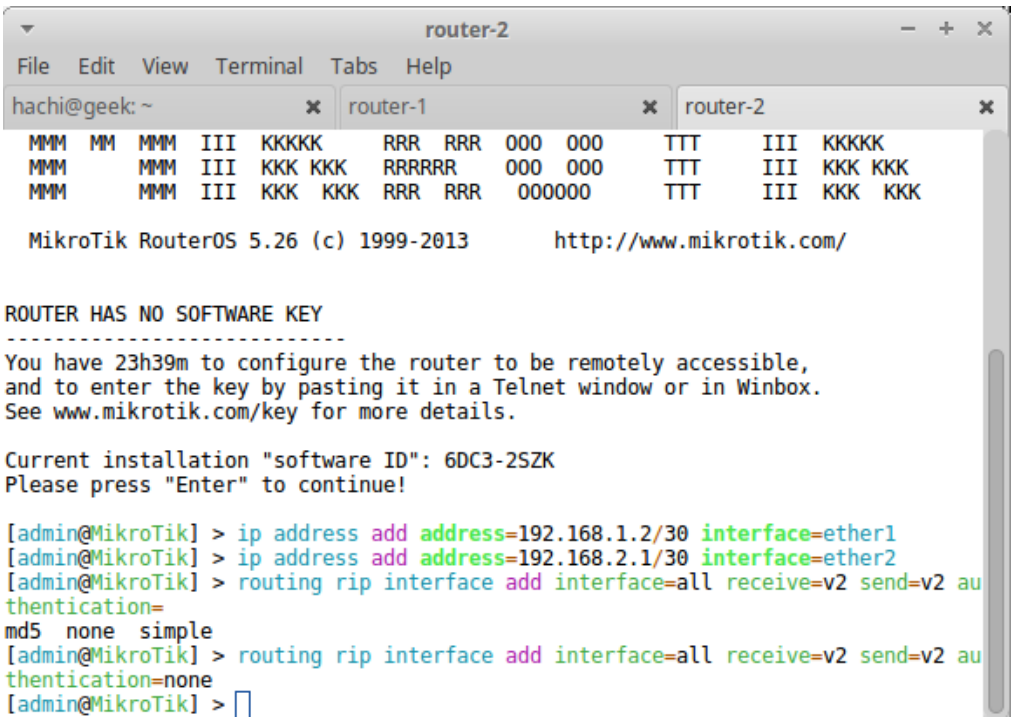
Setting **Routing > RIP > Interface** dengan perintah
routing rip interface add interface=all receive=v2 send=v2 authentication=none



Lalu tambahkan **Routing > RIP > Network** dengan perintah
routing rip network add network=172.16.1.0/24
routing rip network add network=192.168.1.0/30

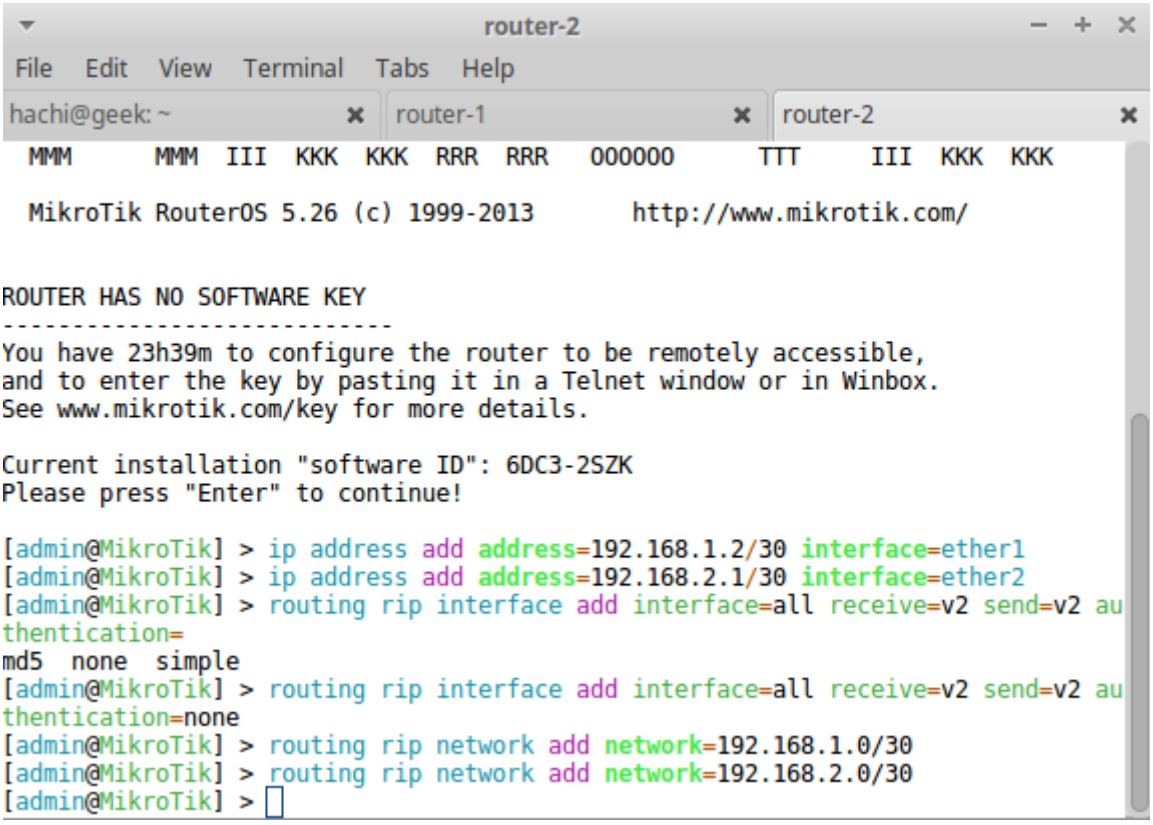
- Konfigurasi pada **Router 2**

Setting ip pada router 2 dengan perintah
ip address add address=192.168.1.2/30 interface=ether1
ip address add address=192.168.2.1/30 interface=ether2

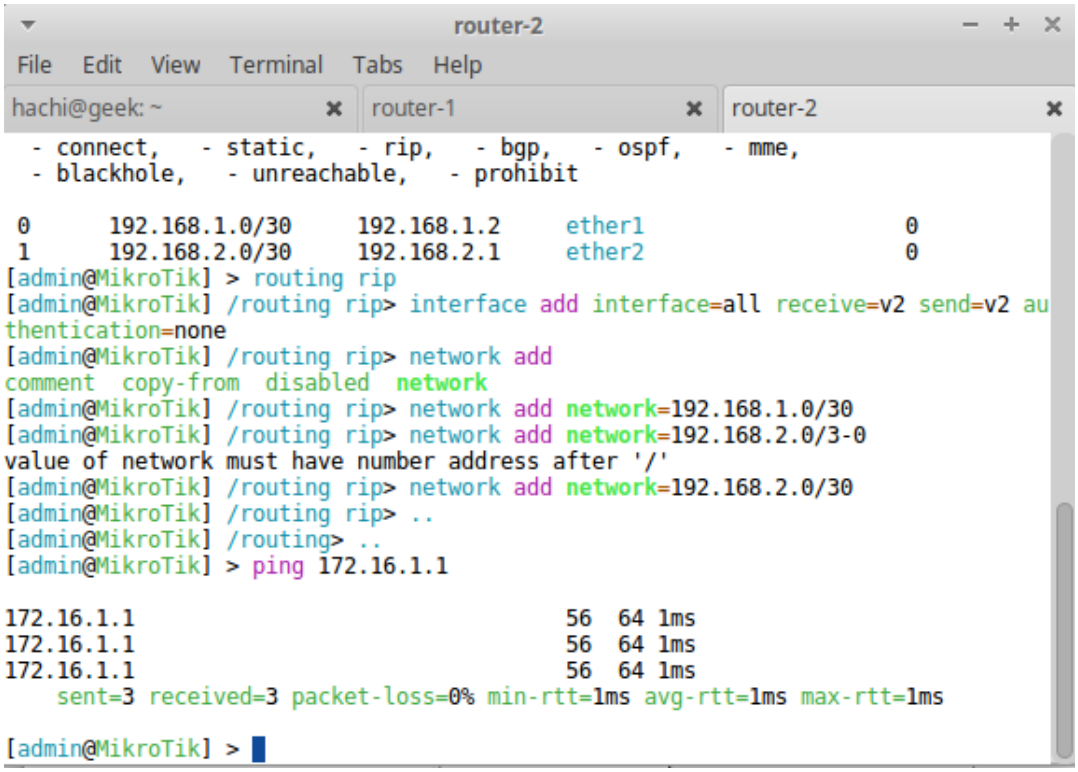


Setting **Routing > RIP > Interface** dengan perintah
routing rip interface add interface=all receive=v2 send=v2 authentication=none

Lalu tambahkan **Routing > RIP > Network** dengan perintah
routing rip network add network=192.168.1.0/30
routing rip network add network=192.168.2.0/30



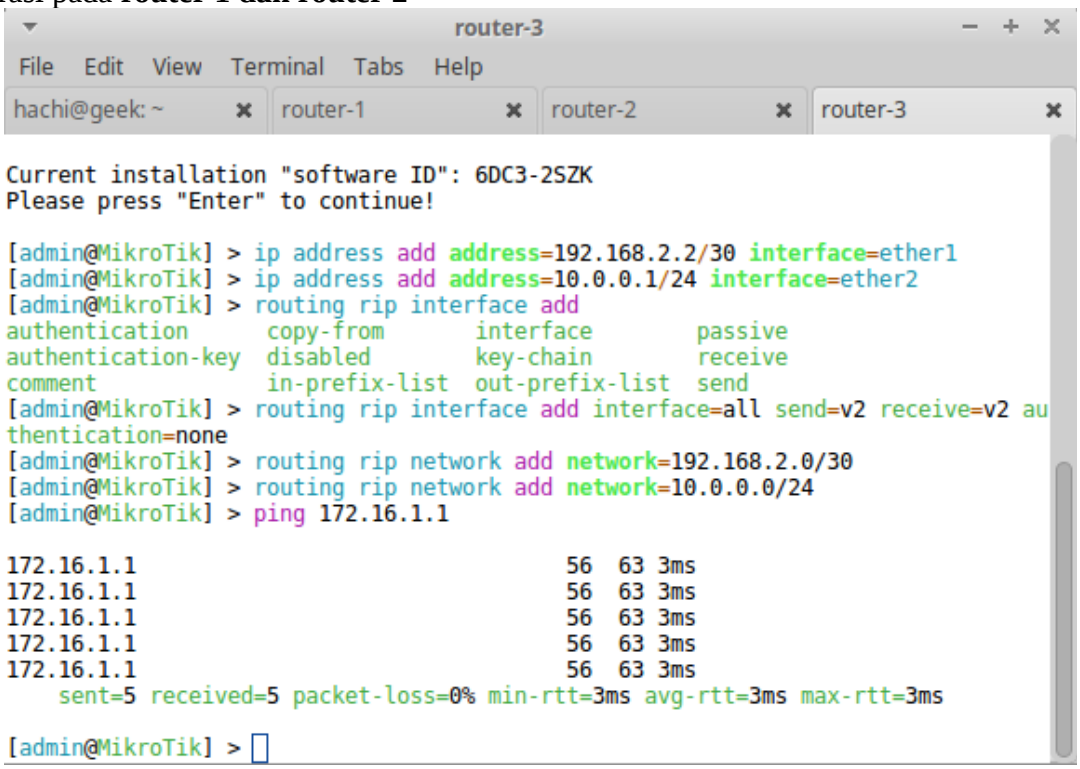
Setelah terkonfigurasi selesai kita coba ping dari **router 2 ke router 1,** dengan perintah **ping 172.16.1.1**



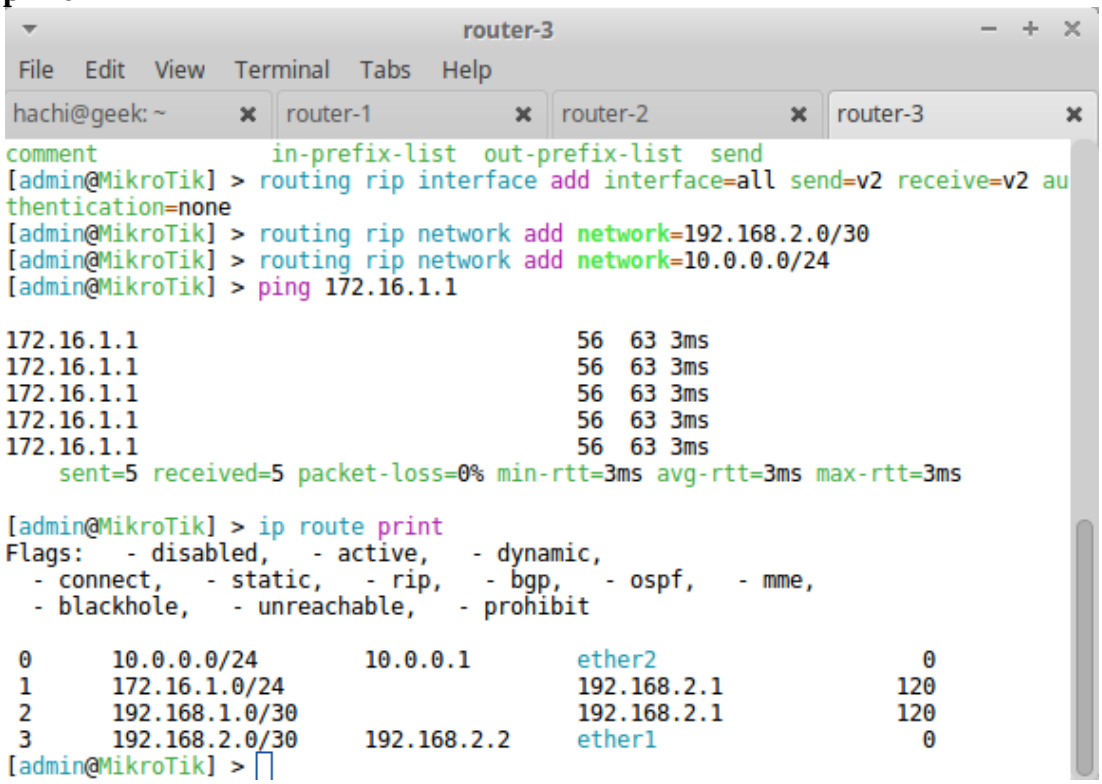
Jika berhasil koneksi berari antar router tersebut sudah terhubung

- Konfigurasi **router 3**

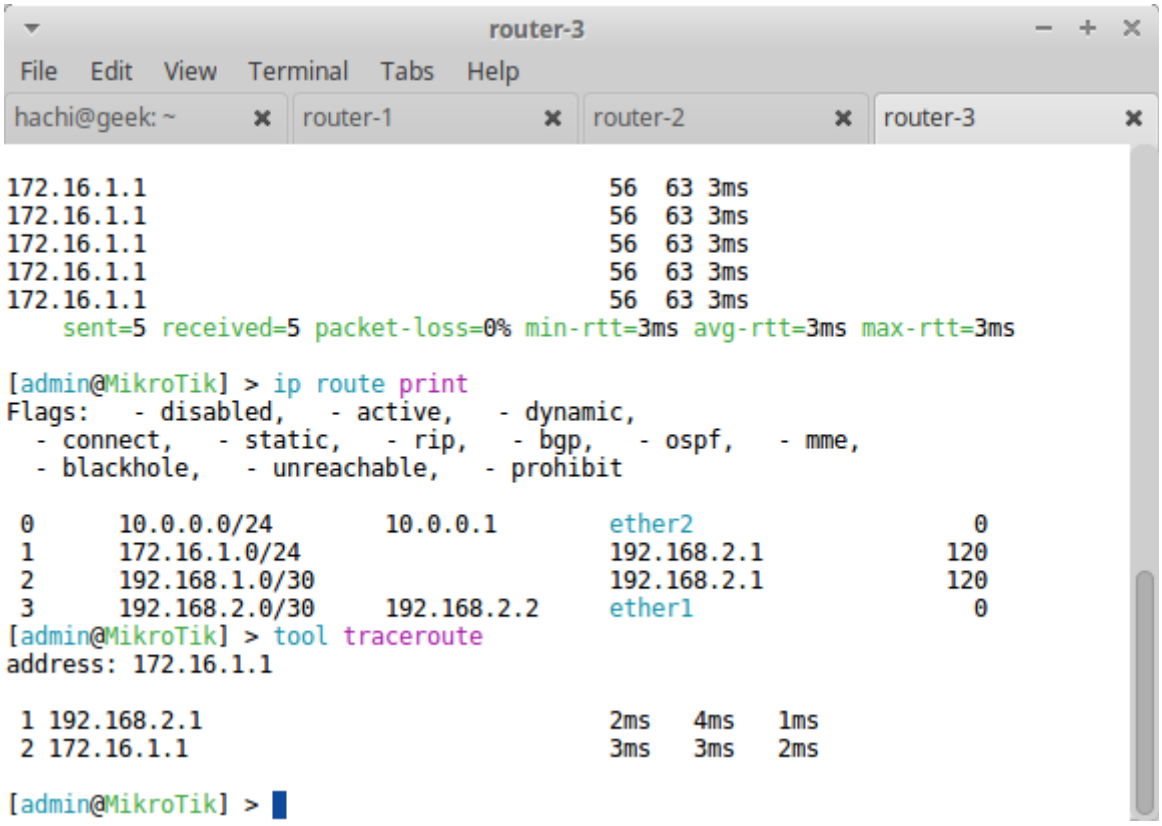
Lakukan Konfigurasi **IP , ROUTING RIP > Interface , Routing RIP > Network** seperti konfigurasi pada **router 1 dan router 2**



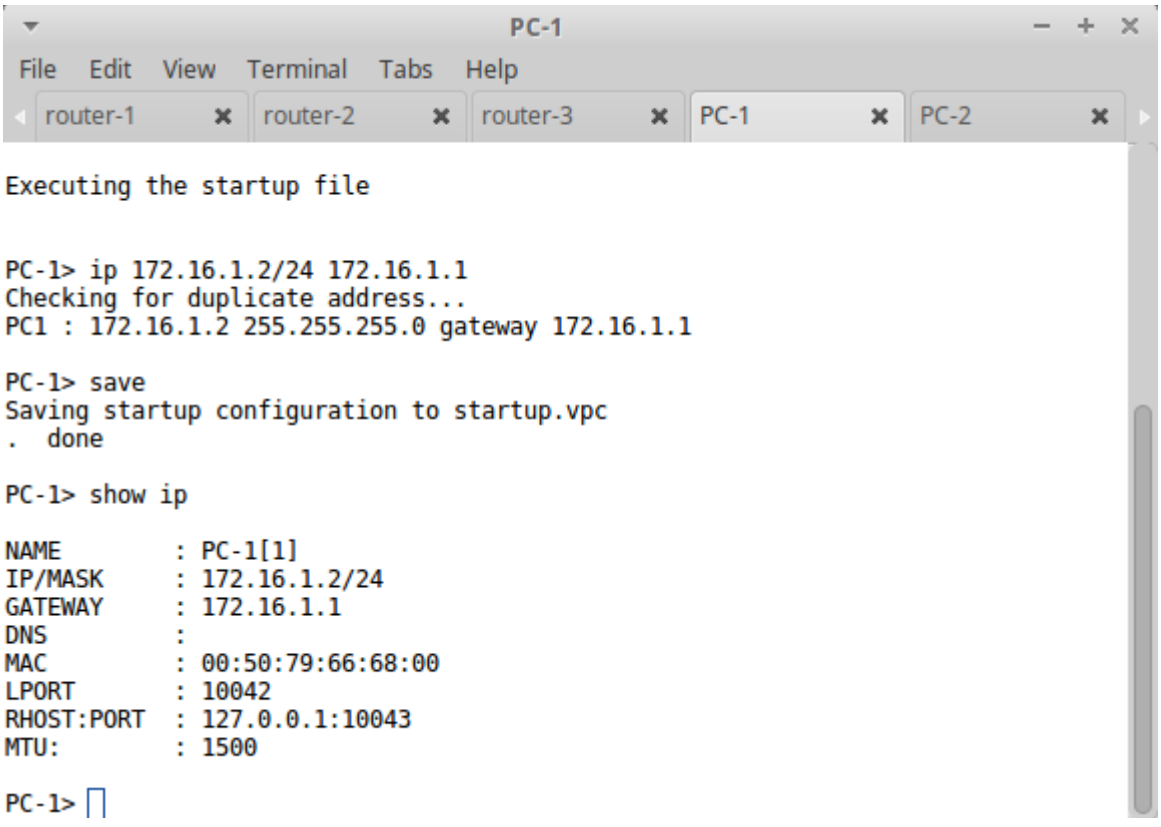
Kita bisa test apakah kita terhubung dengan **router 1** atau tidak dengan mengetik perintah **ping 172.16.1.1 .** Kita juga bisa melihat alamat routing yang telah ada dengan mengetik perintah **ip router print**



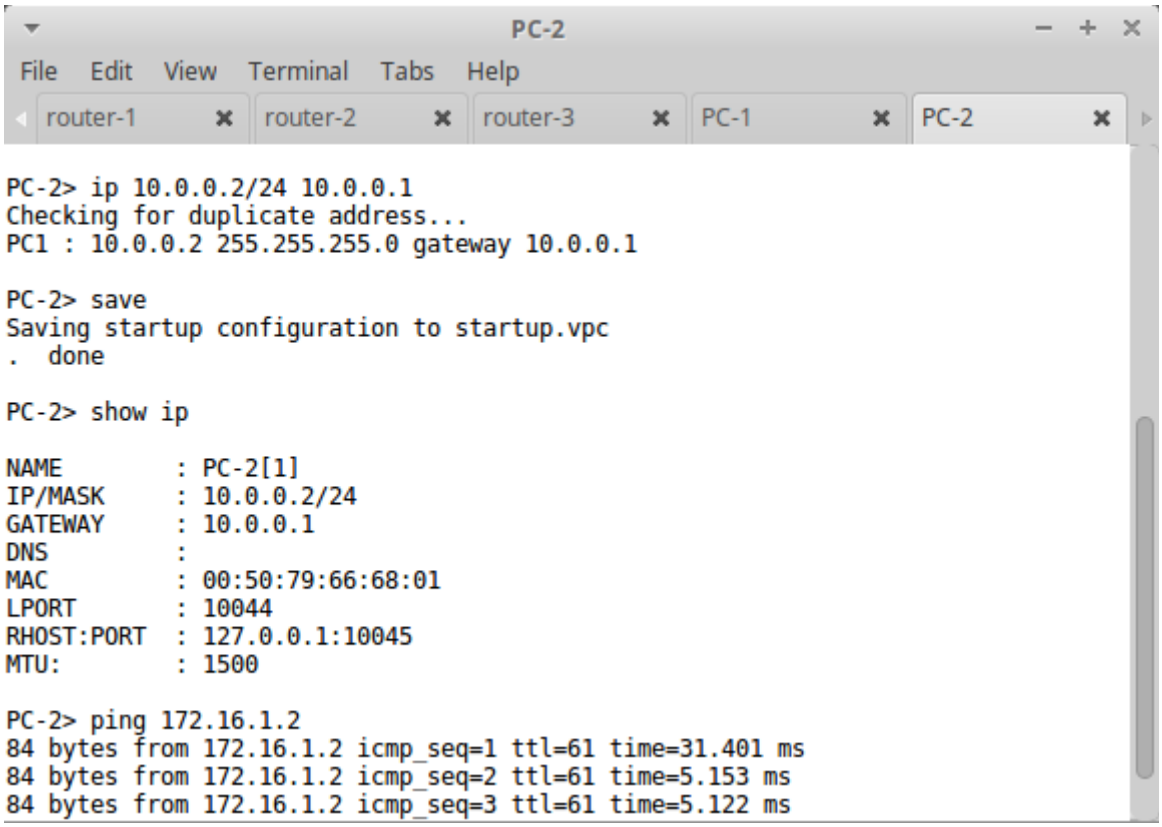
Kita juga bisa melihat saat terjadi nya ping **ip kita melewati berapa proses routing untuk mencapai ip tujuan** dengan mengetik perintah **tools traceroute**



Setelah semua **router terkonfigurasi** selanjut nya kita setting pada pc kita
Dengan perintah pada **PC 1** perintah nya **ip 172.16.1.2/24 172.16.1.1** lalu ketik **save** untuk menyimpan konfigurasi

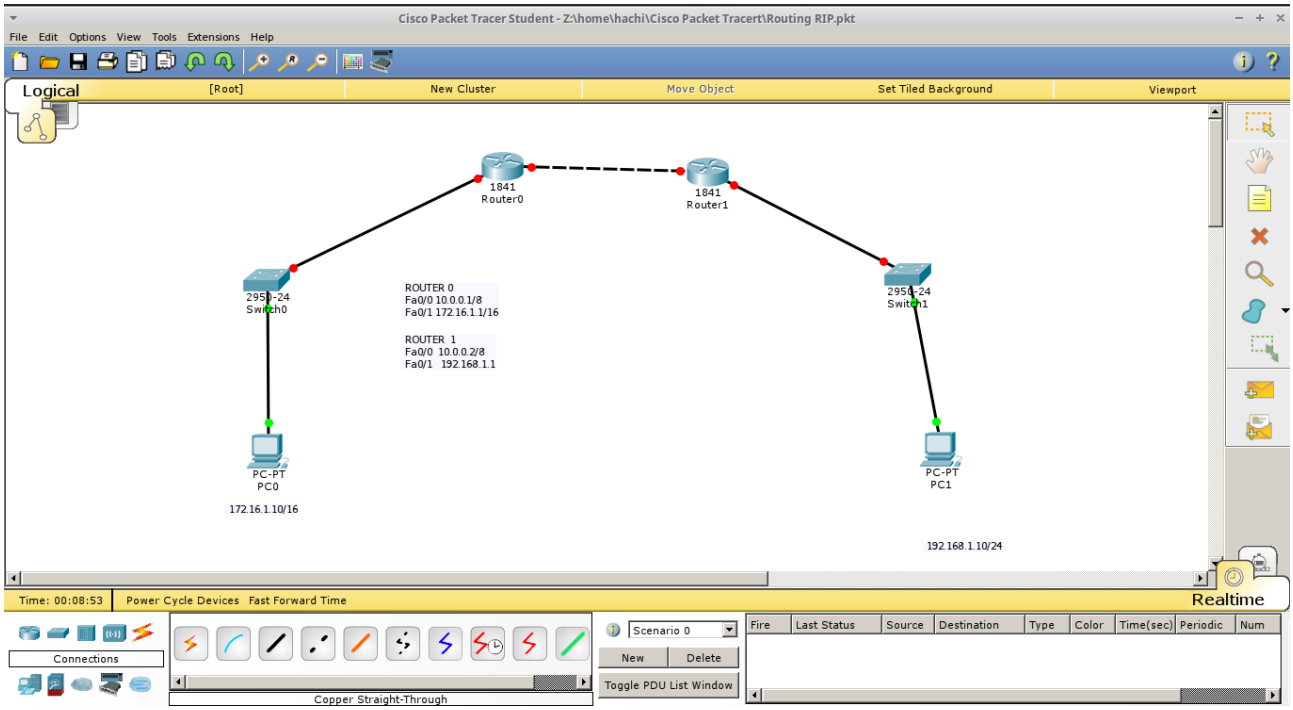


Lakukan hal yang sama pada **PC2**
Kalau sudah kita bisa test koneksi dari **PC 2 ke PC 1** dengan perintah **ping 172.16.1.2**

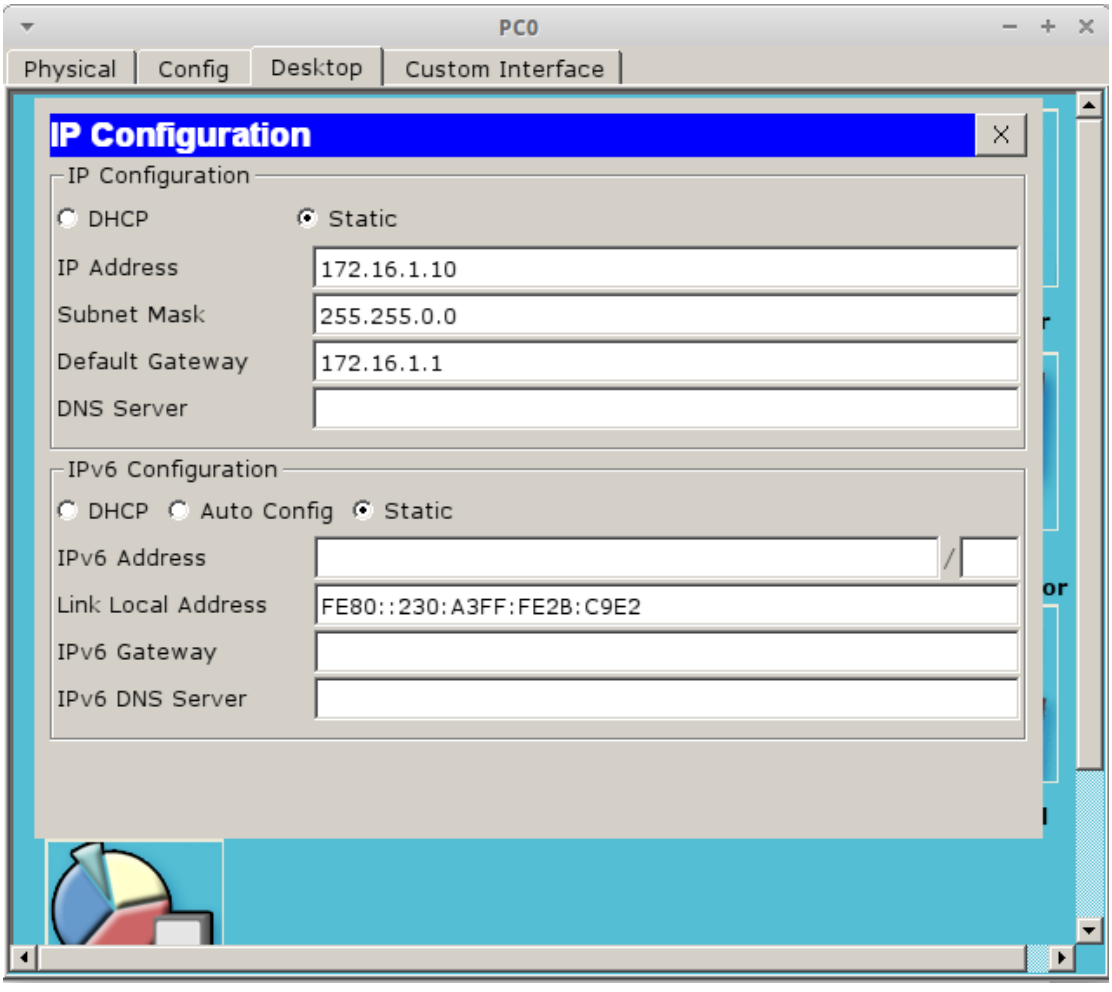


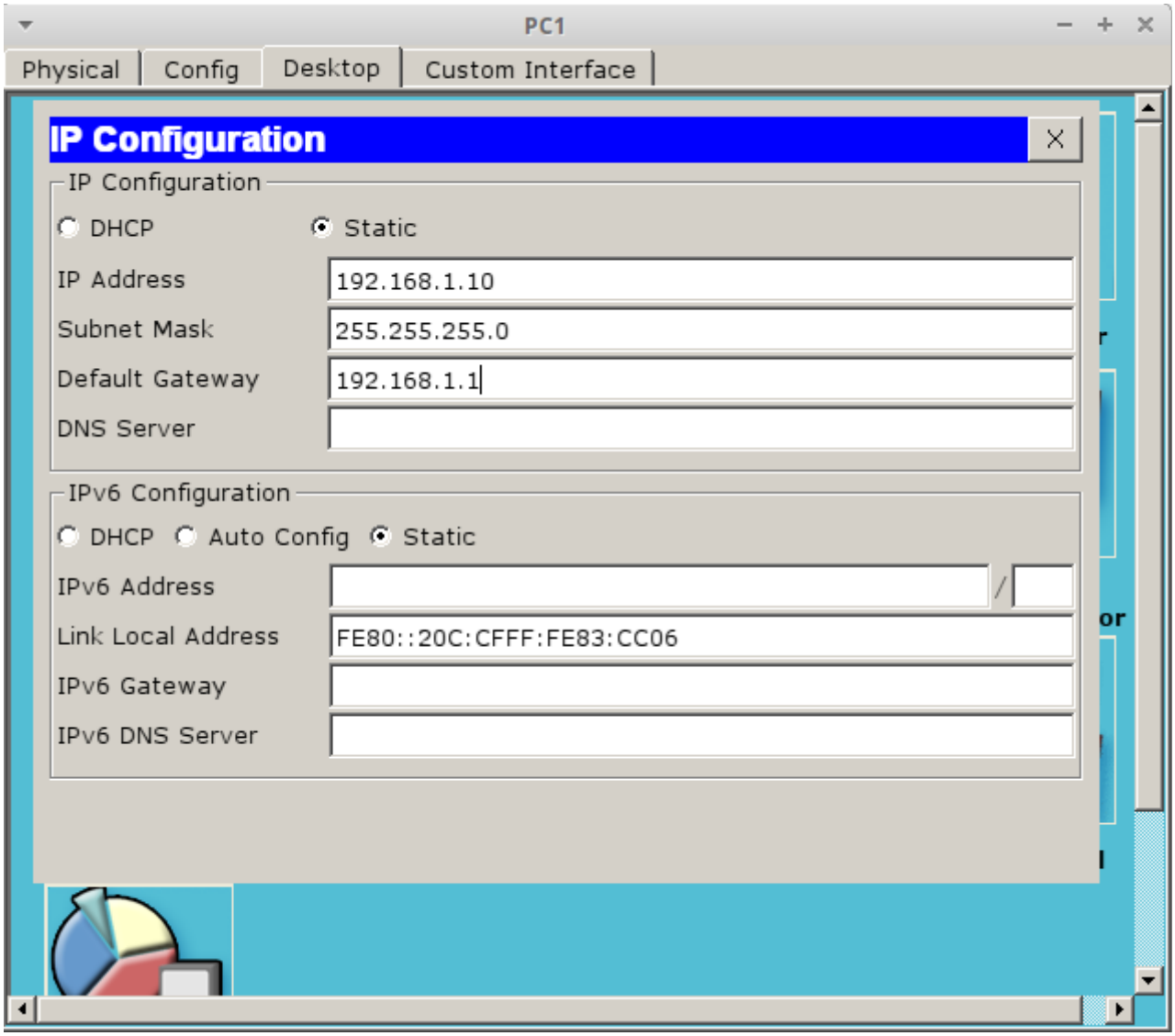
KONFIGURASI ROUTING RIP Pada Cisco Packet Tracert

1. Buat topologi seperti contoh dibawah



2. Setting ip pada masing masing PC





Kalau sudah

3. Konfigurasi pada **router 2**

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 172.16.1.1 255.255.0.0
Router(config-if)#no sh
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 10.0.0.0

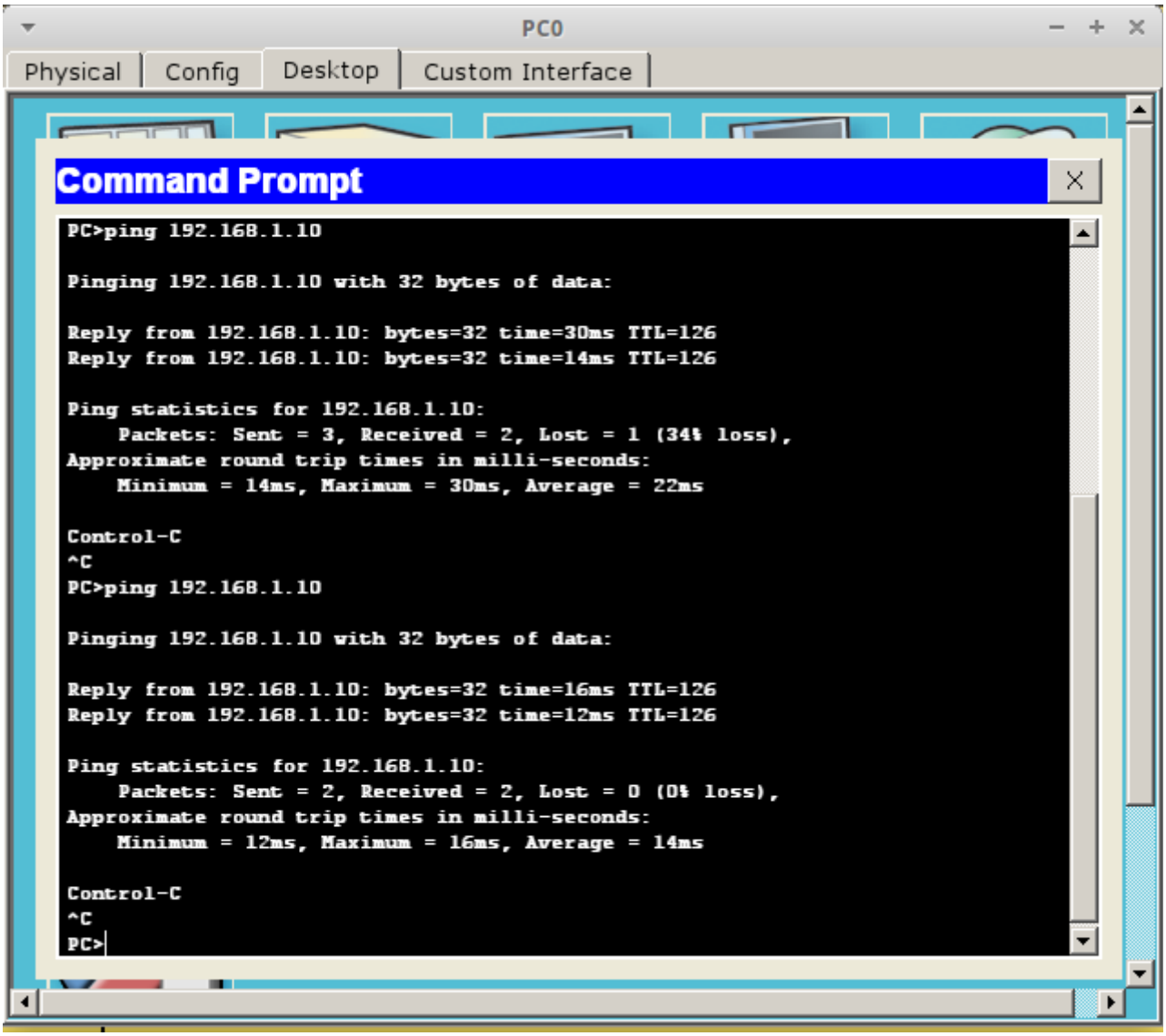
```
Router(config-router)#network 172.12.0.0
Router(config-router)#network 192.168.1.0
Router(config-router)#exit
Router(config)#eixt
^
% Invalid input detected at '^' marker.
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#cop
Router#copy run
Router#copy running-config star
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
```

3. Konfigurasi pada **router 3**

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 10.0.0.2 255.0.0.0
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 10.0.0.0
Router(config-router)#network 192.168.1.0
Router(config-router)#network 172.16.0.0
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#copy running-config start
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
```

Router#

Kita coba lakukan koneksi dari **PC0** ke **PC1**



Berhasil? Kalau sudah berhasil selamat anda telah membuat proses Routing RIP (Dynamic) pada Cisco Packet Tracert