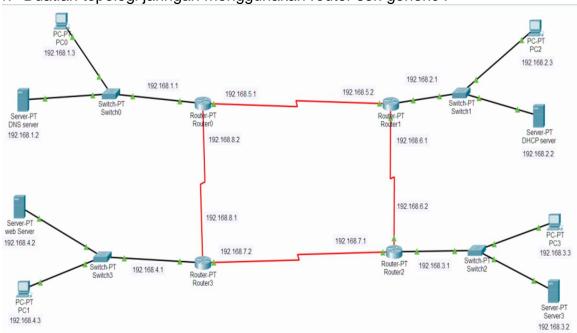
1. Buatlah topologi jaringan menggunakan router seri generic!



2. Lakukan konfigurasi pengalamatan ip terhadap ROUTER 1,2,3,4 PC 1, 2, 3, dan 4!

Router 0	Server DNS	PC 0
SE 2/0 (ip add 192.168.5.1)	lp add 192.168.1.2	lp add 192.168.1.3
SE 3/0 (ip add 192.168.8.2)		
Fa 0/0 (ip add 192.168.1.1)		

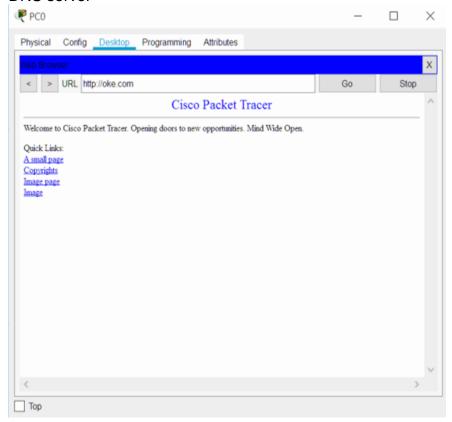
Router 1	Server DHCP	PC 2
SE 2/0 (ip add 192.168.6.1)	lp add 192.168.2.2	Otomatis sesuai pengaturan
SE 3/0 (ip add 192.168.5.2)		dhcp yang dibuat
Fa 0/0 (ip add 192.168.2.1)		(ip add 192.168.2.3)

Router 2	Server3	PC 3
SE 2/0 (ip add 192.168.7.1)	lp add 192.168.3.2	lp add 192.168.3.3
SE 3/0 (ip add 192.168.6.2)		
Fa 0/0 (ip add 192.168.3.1)		

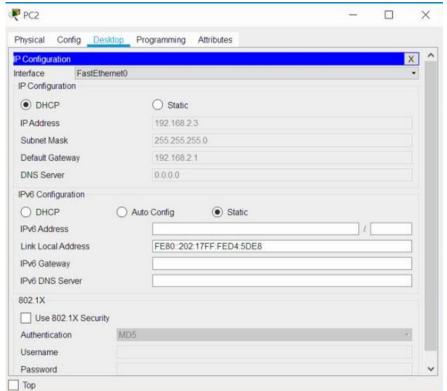
Router 3	Server Web	PC 1
SE 2/0 (ip add 192.168.8.1)	lp add 192.168.4.2	lp add 192.168.4.3
SE 3/0 (ip add 192.168.7.2)		
Fa 0/0 (ip add 192.168.4.1)		

Test no.2

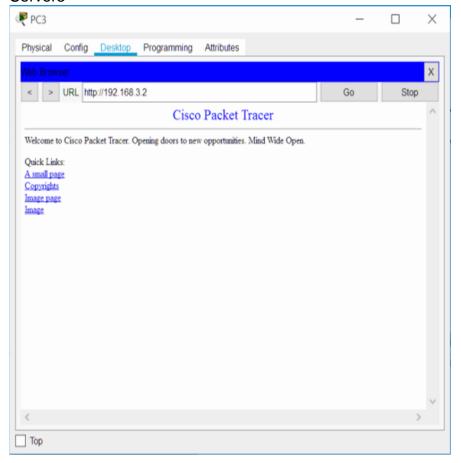
DNS server



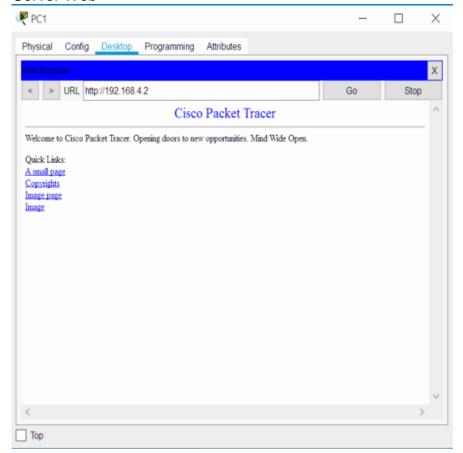
DHCP Server



• Server3

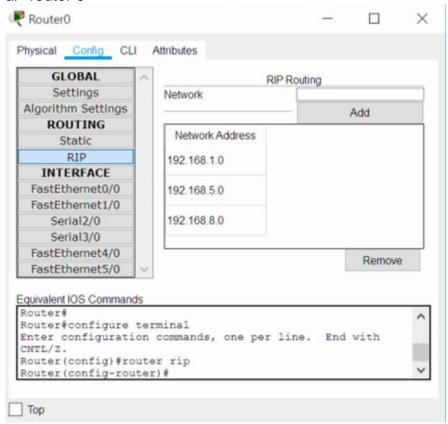


Server Web

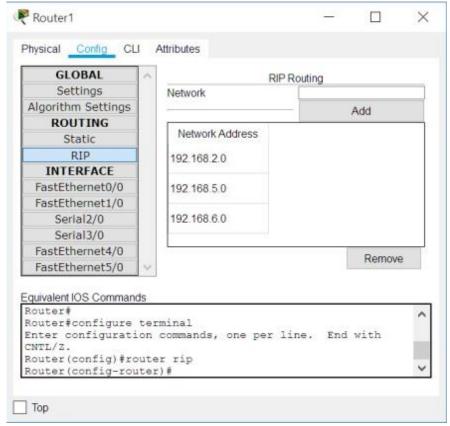


3. Lakukan konfigurasi routing dinamis menggunakan protocol routing RIP pada 4 router tersebut!

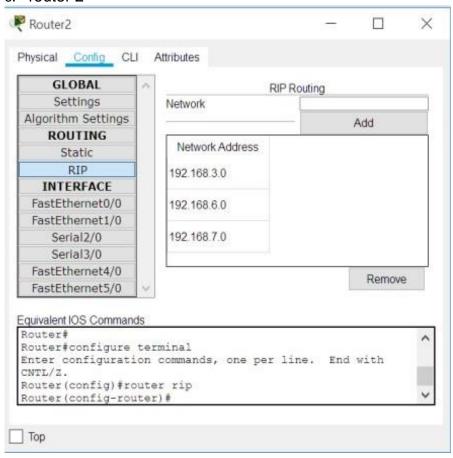
a. router 0



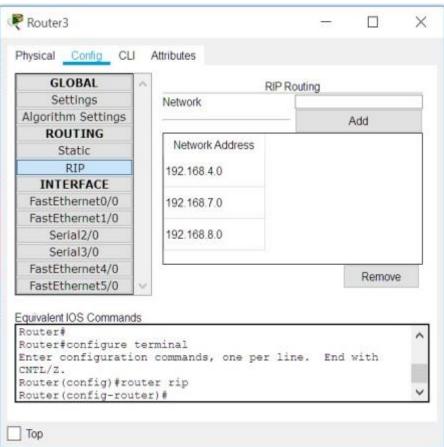
b. router 1



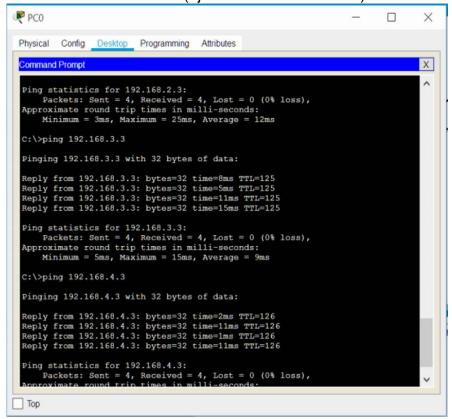
c. router 2



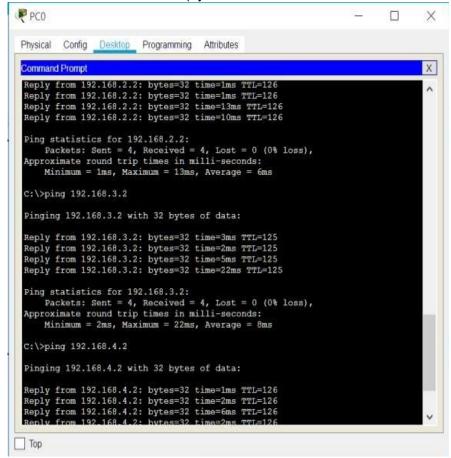
d. router 3



> Test no.3 router dinamis (uji konektivitas antar PC)

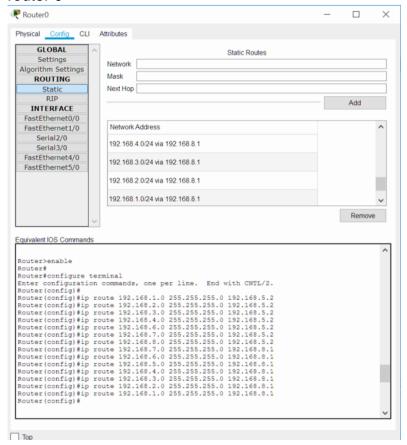


Test no.3 router dinamis (uji konektivitas PC ke server antar router)

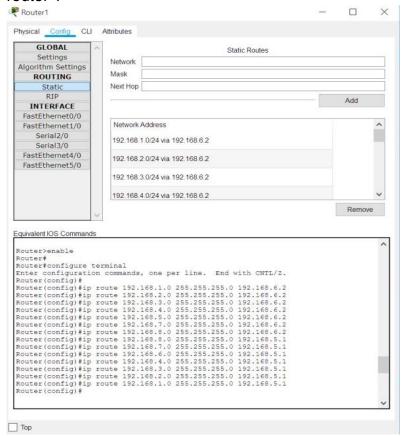


4. Lakukan uji koneksi untuk melihat konektivitas antar PC, dan lakukan konfigurasi routing statis pada 4 router tersebut!

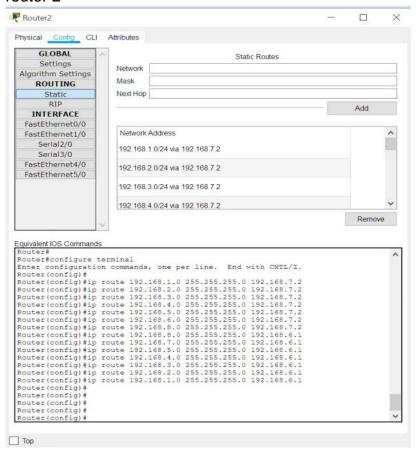
a. router 0



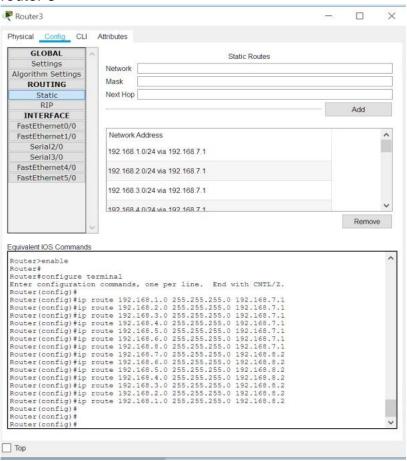
b. router 1



c. router 2



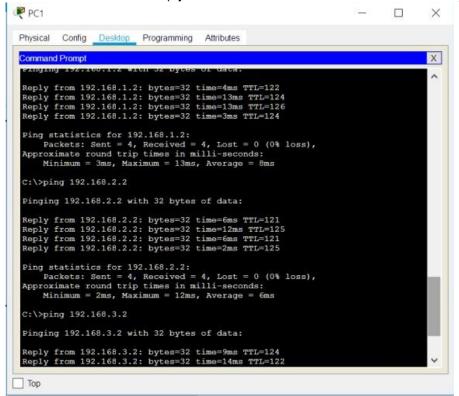
d. router 3



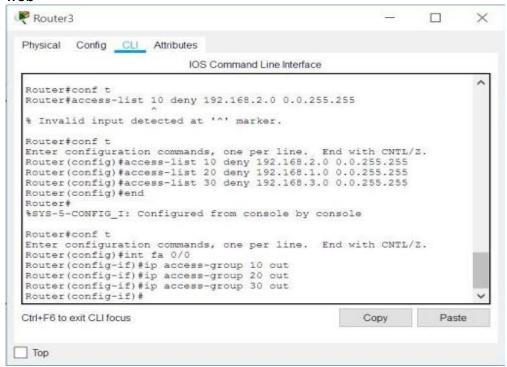
Test no.4 router statis(uji konektivitas antar PC)

```
PC1
                                                                                                                                    X
 Physical Config Desktop Programming Attributes
 Command Prompt
                                                                                                                                               X
 Pinging 192.168.1.3 with 32 bytes of data:
 Reply from 192.168.1.3: bytes=32 time=2ms TTL=126
Reply from 192.168.1.3: bytes=32 time=11ms TTL=124
Reply from 192.168.1.3: bytes=32 time=13ms TTL=122
Reply from 192.168.1.3: bytes=32 time=11ms TTL=124
  Ping statistics for 192.168.1.3:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 2ms, Maximum = 13ms, Average = 9ms
  C:\>ping 192.168.2.3
  Pinging 192.168.2.3 with 32 bytes of data:
 Reply from 192.168.2.3: bytes=32 time=5ms TTL=125
Reply from 192.168.2.3: bytes=32 time=16ms TTL=121
Reply from 192.168.2.3: bytes=32 time=13ms TTL=125
Reply from 192.168.2.3: bytes=32 time=13ms TTL=121
  Ping statistics for 192.168.2.3:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 5ms, Maximum = 16ms, Average = 11ms
  C:\>ping 192.168.3.3
  Pinging 192.168.3.3 with 32 bytes of data:
  Reply from 192.168.3.3: bytes=32 time=5ms TTL=124
```

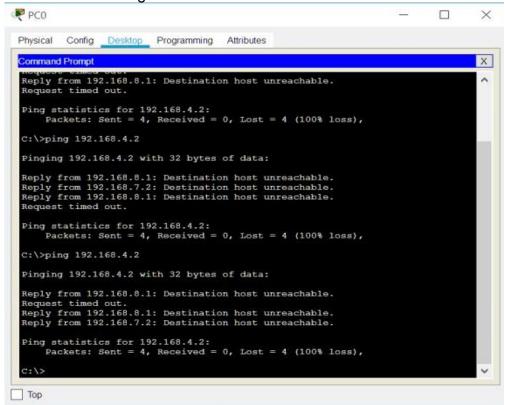
> Test no.4 router statis (uji konektivitas PC ke server antar router)



Menggunkan access list untuk membatasi 1 PC saja yang dapat mengakses server web



a. Test akses dengan PC 0



b. Test akses dengan PC 2

```
Physical Config Desktop Programming Attributes

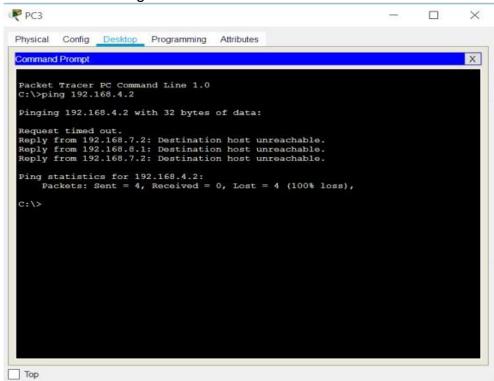
Command Prompt
Request timed out.
Reply from 192.168.8.1: Destination host unreachable.
Reply from 192.168.7.2: Destination host unreachable.
Ping statistics for 192.168.4.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.4.2 with 32 bytes of data:
Request timed out.
Reply from 192.168.1: Destination host unreachable.
Reply from 192.168.1: Destination host unreachable.
Reply from 192.168.7: Destination host unreachable.
Ping statistics for 192.168.4.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.4.2 with 32 bytes of data:
Request timed out.
Request timed out.
Reply from 192.168.4.2 with 32 bytes of data:
Reply from 192.168.4.2 bestination host unreachable.
Reply from 192.168.7.2: Destination host unreachable.
Ping statistics for 192.168.4.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

c. Test akses dengan PC 3



d. Test akses dengan PC 1

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
c:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Reply from 192.168.4.2: bytes=32 time=lms TTL=128
Reply from 192.168.4.2: bytes=32 time=lms TTL=128
Reply from 192.168.4.2: bytes=32 time<lms TTL=128
Reply from 192.168.4.2: bytes=32 time<lms TTL=128

Ping statistics for 192.168.4.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```