Praktikum 6

Routing RIP New Generation (IPv6)

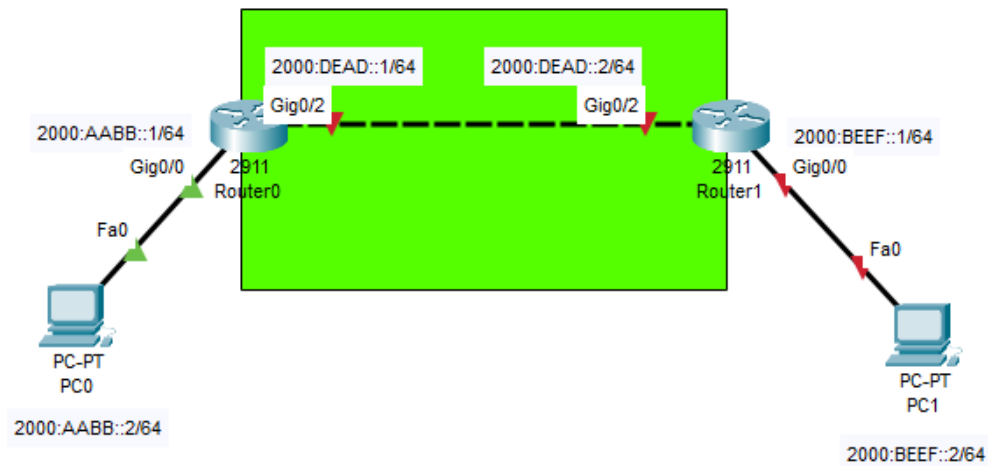| N O	KETERANGAN
1	Buatlah Topologi dengan Packet Tracer sebagai berikut
2	Konfigurasikan IPv6 sebagai berikut: **PC0 = 2000:AABB::2/64** **Router0 – Gig0/0 = 2000:AABB::2/64** **PC1 = 2000:BEEF::2/64** **Router1 – Gig0/0 = 2000:BEEF:1/64** **Router0 – Gig0/2 = 2000:DEAD::1/64** **Router1 – Gig0/2 = 2000:DEAD::2/64**
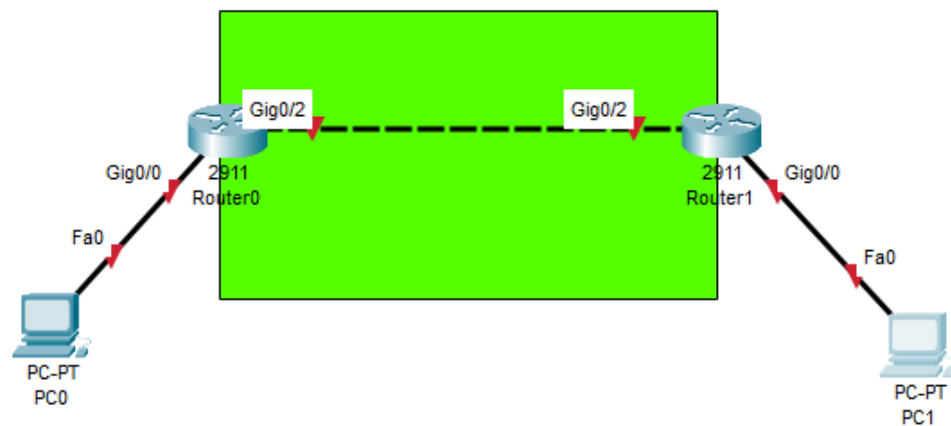
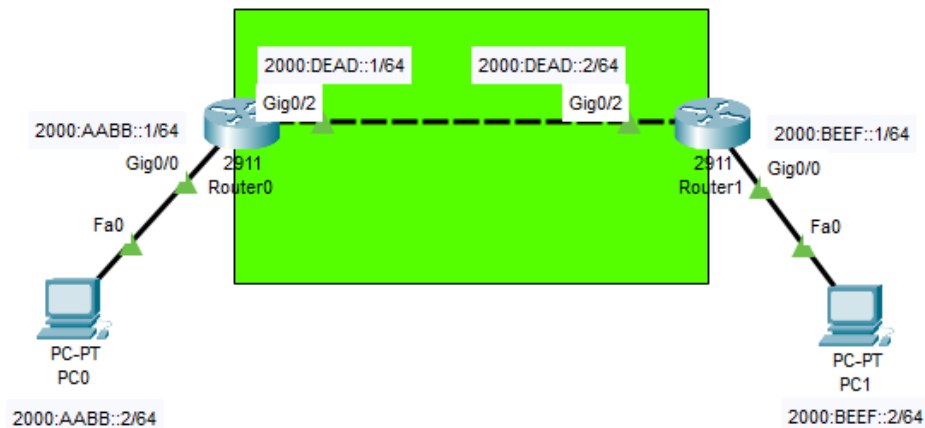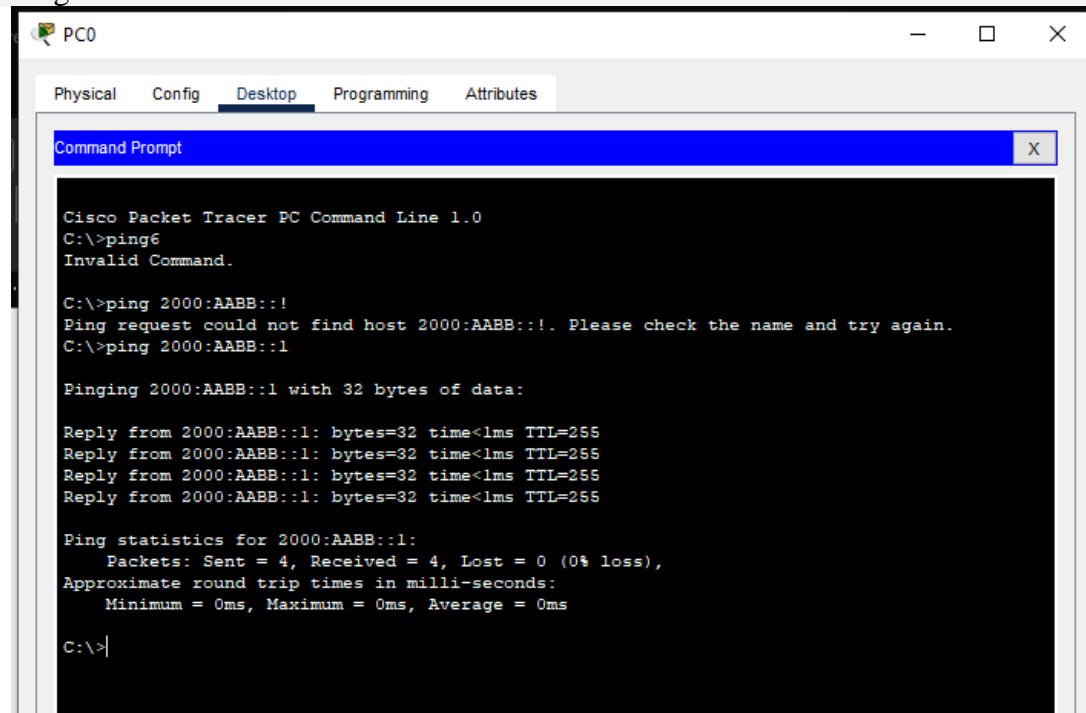| 3	Konfigurasi PC0
4	Konfigurasi PC1
5	Buka Router0, masuk mode CLI, masukkan perintah-perintah berikut
	Router>enable **Router#config terminal** **Router(config)#interface Gig0/0** **Router(config-if)#ipv6 addr 2000:AABB::1/64** **Router(config-if)#no shutdown** **Router(config)#int gig0/2** **Router(config-if)#ipv6 addr 2000:DEAD::1/64** **Router(config-if)#no shutdown**
6	Buka Router1, masuk mode CLI, masukkan perintah-perintah berikut

Router>enable
Router#config terminal
Router(config)#interface Gig0/0
Router(config-if)#ipv6 addr 2000:BEEF::1/64
Router(config-if)#no shutdown
Router(config)#int gig0/2
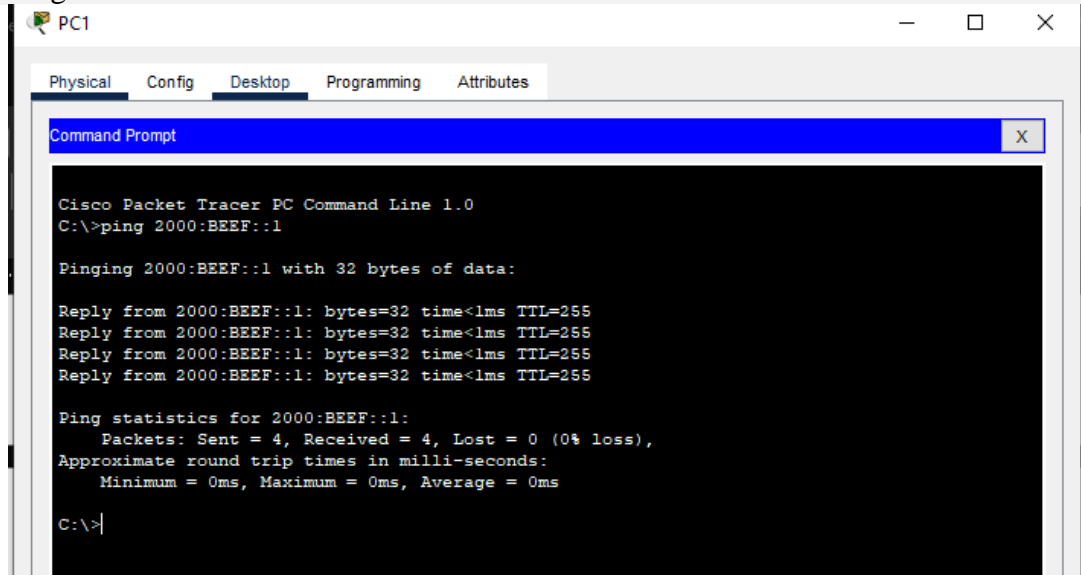**Router(config-if)#ipv6 addr 2000:DEAD::2/64**
Router(config-if)#no shutdown

7	Perangkat sudah aktif dan bisa dicek dengan PING manual

2000:DEAD::1/64   2000:DEAD::2/64
Gig0/2   Gig0/2
2000:AABB::1/64
Gig0/0   2911   2911   Gig0/0   2000:BEEF::1/64
Router0   Router1
Fa0   Fa0
PC-PT   PC-PT
PC0   PC1
2000:AABB::2/64   2000:BEEF::2/64

8	Ping PC0 ke Router0


```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping6
Invalid Command.

C:\>ping 2000:AABB::!
Ping request could not find host 2000:AABB::!. Please check the name and try again.
C:\>ping 2000:AABB::1

Pinging 2000:AABB::1 with 32 bytes of data:

Reply from 2000:AABB::1: bytes=32 time<1ms TTL=255
Reply from 2000:AABB::1: bytes=32 time<1ms TTL=255
Reply from 2000:AABB::1: bytes=32 time<1ms TTL=255
Reply from 2000:AABB::1: bytes=32 time<1ms TTL=255

Ping statistics for 2000:AABB::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

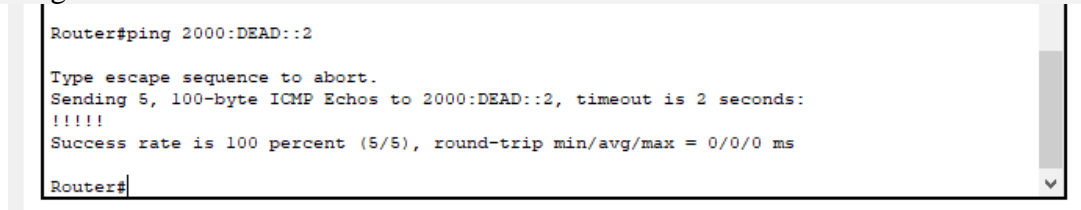| 9	Ping PC1 ke Router1

	PC1 — □ ×
	
	Physical Config Desktop Programming Attributes
	
	Command Prompt X
	
	Cisco Packet Tracer PC Command Line 1.0
	C:\>ping 2000:BEEF::1
	
	Pinging 2000:BEEF::1 with 32 bytes of data:
	
	Reply from 2000:BEEF::1: bytes=32 time<1ms TTL=255
	Reply from 2000:BEEF::1: bytes=32 time<1ms TTL=255
	Reply from 2000:BEEF::1: bytes=32 time<1ms TTL=255
	Reply from 2000:BEEF::1: bytes=32 time<1ms TTL=255
	
	Ping statistics for 2000:BEEF::1:
	    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
	Approximate round trip times in milli-seconds:
	    Minimum = 0ms, Maximum = 0ms, Average = 0ms
	
	C:\>

10	Ping Router0 ke Router1
	Router#ping 2000:DEAD::2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 2000:DEAD::2, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms Router#
11	Atur Routing ke RIPNG dari Router0 dan Router1. Gunakan perintah-perintah berikut **Router>enable** **Router#config terminal** **Router(config)# ipv6 unicast-routing** **Router(config)#int gig0/0** **Router(config-if)#ipv6 rip RIPNG enable** **Router(config)#int gig0/2** **Router(config-if)#ipv6 rip RIPNG enable**
12	Cek apakah rute sudah dibuat dengan **LUP**
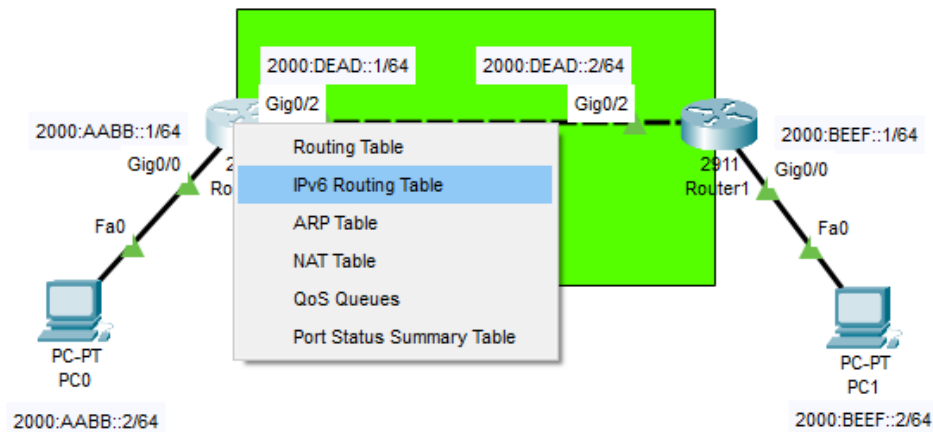
13	Jika benar, maka **SEMUA IP** akan terdaftar di window tersebut

IPv6 Routing Table for Router0

Type	Network	Port	Next Hop IP	Metric
C	2000:AABB::/64	GigabitEthernet0/0	---	0/0
L	2000:AABB::1/128	GigabitEthernet0/0	---	0/0
R	2000:BEEF::/64	GigabitEthernet0/2	FE80::201:43FF:FE70:5203	120/2
C	2000:DEAD::/64	GigabitEthernet0/2	---	0/0
L	2000:DEAD::1/128	GigabitEthernet0/2	---	0/0
L	FF00::/8	Null0	---	0/0

14	Test PING ujung ke ujung. Alat PING di Toolbar tidak bisa dipakai, gunakan manual. PC0 ke PC1

```
C:\>ping 2000:BEEF::2

Pinging 2000:BEEF::2 with 32 bytes of data:

Reply from 2000:BEEF::2: bytes=32 time=10ms TTL=126
Reply from 2000:BEEF::2: bytes=32 time<1ms TTL=126
Reply from 2000:BEEF::2: bytes=32 time<1ms TTL=126
Reply from 2000:BEEF::2: bytes=32 time<1ms TTL=126

Ping statistics for 2000:BEEF::2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>
```

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