

## LAPORAN PRAKTIKUM JARKOM PERTEMUAN KE-11

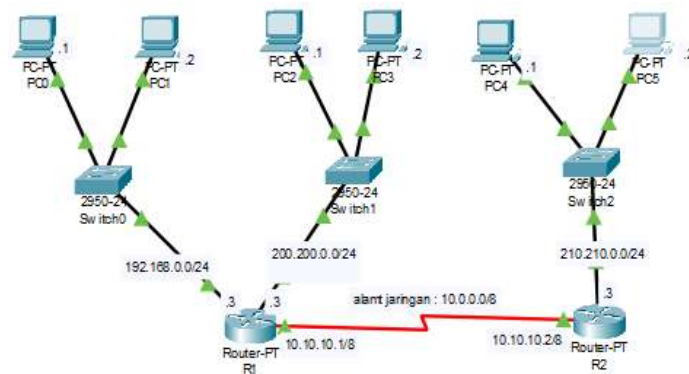
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### DYNAMIC ROUTING DENGAN RIP

#### Praktik

##### 1. Topologi jaringan



##### 2. Konfigurasi Router Serial

- R1

```
Router(config)#interface Serial2/0
Router(config-if)#ip add 10.10.10.1 255.0.0.0
Router(config-if)#no shut
```

```
%LINK-5-CHANGED: Interface Serial2/0, changed s
Router(config-if)#clock rate 72000
Router(config-if)#ex
Router(config)#
alant jaringan : 10.0.0.0/8
```

- R2

```
Router(config-if)#Interface Serial2/0
Router(config-if)#ip add 10.10.10.2 255.0.0.0
Router(config-if)#no shut
Router(config-if)#ex
```

##### 3. Konfigurasi Router RIP

- R1

```
Router(config)#router rip
Router(config-router)#network 192.168.0.0
Router(config-router)#network 200.200.0.0
Router(config-router)#
Router(config-router)#network 10.0.0.0
Router(config-router)#
```

- R2

```
Router(config)#router rip
Router(config-router)#network 10.0.0.0
Router(config-router)#network 210.210.0.0
Router(config-router)#
```

#### 4. Test Ping

- PC 1 – PC 5

```
Pinging 210.210.0.2 with 32 bytes of data:

Request timed out.
Reply from 210.210.0.2: bytes=32 time=2ms TTL=126
Reply from 210.210.0.2: bytes=32 time=2ms TTL=126
Reply from 210.210.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 210.210.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>ping 210.210.0.2

Pinging 210.210.0.2 with 32 bytes of data:

Reply from 210.210.0.2: bytes=32 time=1ms TTL=126
Reply from 210.210.0.2: bytes=32 time=1ms TTL=126
Reply from 210.210.0.2: bytes=32 time=2ms TTL=126
Reply from 210.210.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 210.210.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>
```

- PC 3 – PC4

```
Pinging 210.210.0.1 with 32 bytes of data:

Request timed out.
Reply from 210.210.0.1: bytes=32 time=1ms TTL=126
Reply from 210.210.0.1: bytes=32 time=1ms TTL=126
Reply from 210.210.0.1: bytes=32 time=1ms TTL=126

Ping statistics for 210.210.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>ping 210.210.0.1

Pinging 210.210.0.1 with 32 bytes of data:

Reply from 210.210.0.1: bytes=32 time=1ms TTL=126
Reply from 210.210.0.1: bytes=32 time=1ms TTL=126
Reply from 210.210.0.1: bytes=32 time=1ms TTL=126
Reply from 210.210.0.1: bytes=32 time=1ms TTL=126

Ping statistics for 210.210.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>
```

- PC 5 – PC 0

```
Pinging 192.168.0.1 with 32 bytes of data:

Request timed out.
Reply from 192.168.0.1: bytes=32 time=63ms TTL=126
Reply from 192.168.0.1: bytes=32 time=11ms TTL=126
Reply from 192.168.0.1: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 63ms, Average = 24ms

C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

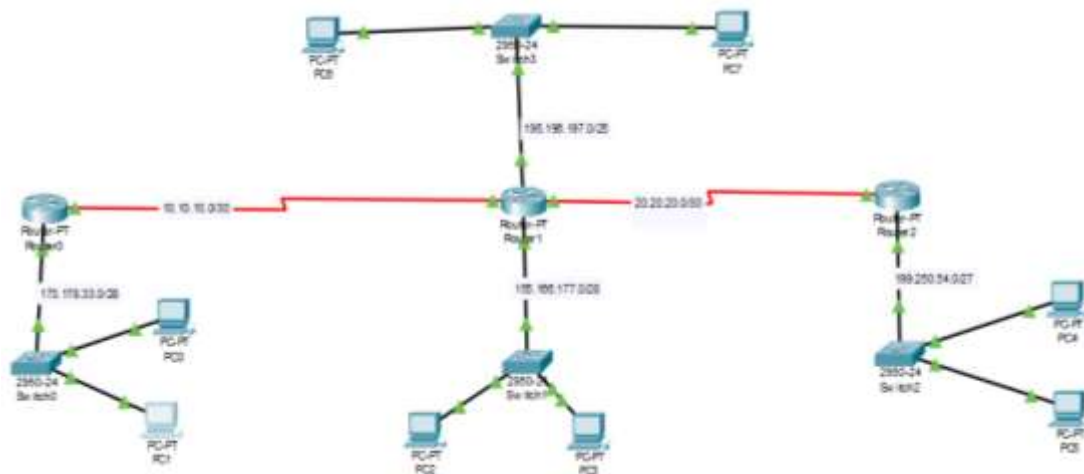
Reply from 192.168.0.1: bytes=32 time=19ms TTL=126
Reply from 192.168.0.1: bytes=32 time=1ms TTL=126
Reply from 192.168.0.1: bytes=32 time=1ms TTL=126
Reply from 192.168.0.1: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 19ms, Average = 5ms

C:\>
```

## Tugas

1. Dengan alamat jaringan yang telah tersedia, buatlah konfigurasi setiap perangkat yang ada!
2. Lakukan konfigurasi routing dinamis dengan menggunakan RIP pada jaringan tersebut, dan capture tabel hasil routing serta hasil ping untuk dari dan ke semua perangkat PC!



### a. Routing rip

#### - Router 0

```
Router(config)#router rip
Router(config-router)#network 10.10.10.0
Router(config-router)#network 173.178.33.0
Router(config-router)#network 155.166.177.0
Router(config-router)#network 20.20.20.0
Router(config-router)#network 195.196.197.0
Router(config-router)#network 199.250.54.0
Router(config-router)#
```

#### - Router 1

```
Router(config-if)#router rip
Router(config-router)#network 10.10.10.0
Router(config-router)#network 173.178.33.0
Router(config-router)#network 195.196.197.0
Router(config-router)#network 155.166.177.0
Router(config-router)#network 20.20.20.0
Router(config-router)#network 199.250.54.0
Router(config-router)#
```

#### - Router 2

```
Router(config)#router rip
Router(config-router)#network 10.10.10.0
Router(config-router)#network 173.178.33.0
Router(config-router)#network 195.196.197.0
```

% Invalid input detected at '^' marker.

```
Router(config-router)#network 195.196.197.0
Router(config-router)#network 155.166.177.0
Router(config-router)#network 20.20.20.0
Router(config-router)#network 199.250.54.0
Router(config-router)#
```

b. Test Ping

- PC 1 – PC 7

```
C:\>ping 195.196.197.1

Pinging 195.196.197.1 with 32 bytes of data:

Reply from 195.196.197.1: bytes=32 time=1ms TTL=126
Reply from 195.196.197.1: bytes=32 time=1ms TTL=126
Reply from 195.196.197.1: bytes=32 time=1ms TTL=126
Reply from 195.196.197.1: bytes=32 time=2ms TTL=126

Ping statistics for 195.196.197.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

- PC 2 – PC 6

```
C:\>ping 195.196.197.2

Pinging 195.196.197.2 with 32 bytes of data:

Reply from 195.196.197.2: bytes=32 time<1ms TTL=127
Reply from 195.196.197.2: bytes=32 time<1ms TTL=127
Reply from 195.196.197.2: bytes=32 time=1ms TTL=127
Reply from 195.196.197.2: bytes=32 time<1ms TTL=127

Ping statistics for 195.196.197.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

- PC 5 – PC 6

```
Packet Tracer PC Command Line 1.0
C:\>ping 195.196.197.2

Pinging 195.196.197.2 with 32 bytes of data:

Reply from 195.196.197.2: bytes=32 time=1ms TTL=126
Reply from 195.196.197.2: bytes=32 time=13ms TTL=126
Reply from 195.196.197.2: bytes=32 time=1ms TTL=126
Reply from 195.196.197.2: bytes=32 time=1ms TTL=126

Ping statistics for 195.196.197.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 13ms, Average = 4ms
```

- PC 6 – PC 1

```
Packet Tracer PC Command Line 1.0
C:\>ping 173.178.33.2

Pinging 173.178.33.2 with 32 bytes of data:

Reply from 173.178.33.2: bytes=32 time=2ms TTL=126
Reply from 173.178.33.2: bytes=32 time=2ms TTL=126
Reply from 173.178.33.2: bytes=32 time=1ms TTL=126
Reply from 173.178.33.2: bytes=32 time=1ms TTL=126

Ping statistics for 173.178.33.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

- PC 6 – PC 2

```
C:\>ping 155.166.177.1

Pinging 155.166.177.1 with 32 bytes of data:

Reply from 155.166.177.1: bytes=32 time=1ms TTL=127
Reply from 155.166.177.1: bytes=32 time<1ms TTL=127
Reply from 155.166.177.1: bytes=32 time<1ms TTL=127
Reply from 155.166.177.1: bytes=32 time<1ms TTL=127

Ping statistics for 155.166.177.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

- PC 6 – PC 5

```
C:\>ping 199.250.54.1

Pinging 199.250.54.1 with 32 bytes of data:

Reply from 199.250.54.1: bytes=32 time=1ms TTL=126
Reply from 199.250.54.1: bytes=32 time=1ms TTL=126
Reply from 199.250.54.1: bytes=32 time=1ms TTL=126
Reply from 199.250.54.1: bytes=32 time=1ms TTL=126

Ping statistics for 199.250.54.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms
```