

LAPORAN PRAKTIKUM JARKOM PERTEMUAN KE-12

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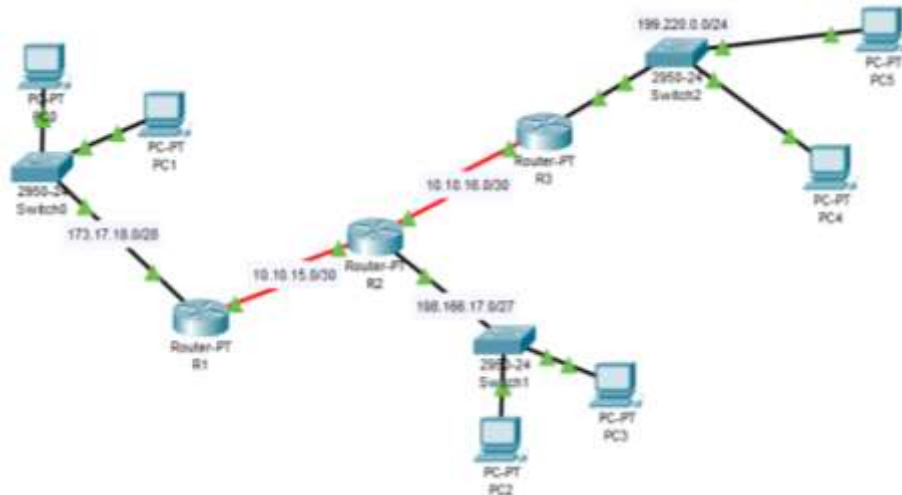
NIM : 205410126

DYNAMIC ROUTING DENGAN EIGRP

Praktik

Lakukan routing untuk kedua router yang lain dan capture hasil pingnya.

1. Topologi jaringan



2. Routing table

- R1

Routing Table for R1

Type	Network	Port	Next Hop IP	Metric
C	10.10.15.0/30	Serial2/0	—	0/0
D	10.10.16.0/30	Serial2/0	10.10.15.2	90/21024000
C	173.17.18.0/28	FastEthernet0/0	—	0/0
D	198.166.17.0/27	Serial2/0	10.10.15.2	90/20514560
D	199.220.0.0/24	Serial2/0	10.10.15.2	90/21026560

- R2

Routing Table for R2

Type	Network	Port	Next Hop IP	Metric
C	10.10.15.0/30	Serial2/0	—	0/0
C	10.10.16.0/30	Serial3/0	—	0/0
D	173.17.18.0/28	Serial2/0	10.10.15.1	90/20514560
C	198.166.17.0/27	FastEthernet0/0	—	0/0
D	199.220.0.0/24	Serial3/0	10.10.16.2	90/20514560

- R3

Routing Table for R3

Type	Network	Port	Next Hop IP	Metric
D	10.10.15.0/30	Serial2/0	10.10.16.1	90/21024000
C	10.10.16.0/30	Serial2/0	—	0/0
D	173.17.18.0/28	Serial2/0	10.10.16.1	90/21026560
D	198.166.17.0/27	Serial2/0	10.10.16.1	90/20514560
C	199.220.0.0/24	FastEthernet0/0	—	0/0

3. Test Ping

- PC0-PC2

```
C:\>ping 198.166.17.1

Pinging 198.166.17.1 with 32 bytes of data:

Reply from 198.166.17.1: bytes=32 time=1ms TTL=126
Reply from 198.166.17.1: bytes=32 time=1ms TTL=126
Reply from 198.166.17.1: bytes=32 time=2ms TTL=126
Reply from 198.166.17.1: bytes=32 time=1ms TTL=126

Ping statistics for 198.166.17.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

- PC0-PC4

```
C:\>ping 199.220.0.1

Pinging 199.220.0.1 with 32 bytes of data:

Reply from 199.220.0.1: bytes=32 time=2ms TTL=125
Reply from 199.220.0.1: bytes=32 time=2ms TTL=125
Reply from 199.220.0.1: bytes=32 time=12ms TTL=125
Reply from 199.220.0.1: bytes=32 time=2ms TTL=125

Ping statistics for 199.220.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 12ms, Average = 4ms
```

- PC3-PC1

```
Packet Tracer PC Command Line 1.0
C:\>ping 173.17.18.2

Pinging 173.17.18.2 with 32 bytes of data:

Reply from 173.17.18.2: bytes=32 time=1ms TTL=126
Reply from 173.17.18.2: bytes=32 time=1ms TTL=126
Reply from 173.17.18.2: bytes=32 time=2ms TTL=126
Reply from 173.17.18.2: bytes=32 time=1ms TTL=126

Ping statistics for 173.17.18.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

- PC3-PC5

```
C:\>ping 199.220.0.2

Pinging 199.220.0.2 with 32 bytes of data:

Reply from 199.220.0.2: bytes=32 time=4ms TTL=126
Reply from 199.220.0.2: bytes=32 time=1ms TTL=126
Reply from 199.220.0.2: bytes=32 time=1ms TTL=126
Reply from 199.220.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 199.220.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 4ms, Average = 1ms
```

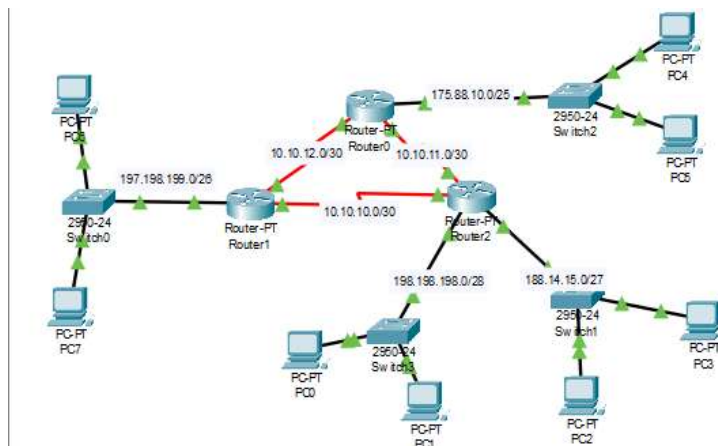
- PC5-PC1 & PC5-PC3

<pre>C:\>ping 173.17.18.2 Pinging 173.17.18.2 with 32 bytes of data: Reply from 173.17.18.2: bytes=32 time=2ms TTL=125 Reply from 173.17.18.2: bytes=32 time=2ms TTL=125 Reply from 173.17.18.2: bytes=32 time=3ms TTL=125 Reply from 173.17.18.2: bytes=32 time=2ms TTL=125 Ping statistics for 173.17.18.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 2ms, Maximum = 3ms, Average = 2ms</pre>	<pre>C:\>ping 198.166.17.2 Pinging 198.166.17.2 with 32 bytes of data: Reply from 198.166.17.2: bytes=32 time=1ms TTL=126 Reply from 198.166.17.2: bytes=32 time=1ms TTL=126 Reply from 198.166.17.2: bytes=32 time=1ms TTL=126 Reply from 198.166.17.2: bytes=32 time=2ms TTL=126 Ping statistics for 198.166.17.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 1ms, Maximum = 2ms, Average = 1ms</pre>
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Tugas

Lakukan routing untuk kedua router yang lain dan capture hasil pingnya.

1. Topologi jaringan



2. Table Routing

- R0

Routing Table for Router0

Type	Network	Port	Next Hop IP	Metric
D	10.10.10.0/30	Serial2/0	10.10.12.2	90/21024000
C	10.10.11.0/30	Serial3/0	—	0/0
C	10.10.12.0/30	Serial2/0	—	0/0
C	175.88.10.0/25	FastEthernet0/0	—	0/0
D	188.14.15.0/27	Serial3/0	10.10.11.2	90/20514560
D	197.198.199.0/26	Serial2/0	10.10.12.2	90/20514560
D	198.198.198.0/28	Serial3/0	10.10.11.2	90/20514560

- R1 & R2

Routing Table for Router1

Type	Network	Port	Next Hop IP	Metric
C	10.10.10.0/30	Serial3/0	—	0/0
D	10.10.11.0/30	Serial2/0	10.10.12.1	90/21024000
C	10.10.12.0/30	Serial2/0	—	0/0
D	175.88.0.0/16	Serial2/0	10.10.12.1	90/20514560
D	175.88.10.0/25	Serial2/0	10.10.12.1	90/20514560
D	188.14.15.0/27	Serial2/0	10.10.12.1	90/21026560
C	197.198.199.0/26	FastEthernet2/0	—	0/0
D	198.198.198.0/28	Serial2/0	10.10.12.1	90/21026560

Routing Table for Router2

Type	Network	Port	Next Hop IP	Metric
C	10.10.10.0/30	Serial3/0	—	0/0
C	10.10.11.0/30	Serial2/0	—	0/0
D	10.10.12.0/30	Serial2/0	10.10.11.1	90/21024000
D	175.88.0.0/16	Serial2/0	10.10.11.1	90/20514560
D	175.88.10.0/25	Serial2/0	10.10.11.1	90/20514560
C	188.14.15.0/27	FastEthernet2/0	—	0/0
D	197.198.199.0/26	Serial2/0	10.10.11.1	90/21026560
C	198.198.198.0/28	FastEthernet1/0	—	0/0

3. Test Ping

- PC 0 – PC 2

```
Packet Tracer PC Command Line 1.0
C:\>ping 188.14.15.1

Pinging 188.14.15.1 with 32 bytes of data:

Reply from 188.14.15.1: bytes=32 time=1ms TTL=127
Reply from 188.14.15.1: bytes=32 time<1ms TTL=127
Reply from 188.14.15.1: bytes=32 time<1ms TTL=127
Reply from 188.14.15.1: bytes=32 time<1ms TTL=127

Ping statistics for 188.14.15.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

- PC 0 – PC 4

```
C:\>ping 175.88.10.1

Pinging 175.88.10.1 with 32 bytes of data:

Reply from 175.88.10.1: bytes=32 time=9ms TTL=126
Reply from 175.88.10.1: bytes=32 time=1ms TTL=126
Reply from 175.88.10.1: bytes=32 time=1ms TTL=126
Reply from 175.88.10.1: bytes=32 time=12ms TTL=126

Ping statistics for 175.88.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 12ms, Average = 5ms
```

- PC 0 – PC 6

```
C:\>ping 197.198.199.1

Pinging 197.198.199.1 with 32 bytes of data:

Reply from 197.198.199.1: bytes=32 time=2ms TTL=125
Reply from 197.198.199.1: bytes=32 time=2ms TTL=125
Reply from 197.198.199.1: bytes=32 time=16ms TTL=125
Reply from 197.198.199.1: bytes=32 time=3ms TTL=125

Ping statistics for 197.198.199.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 16ms, Average = 5ms
```

- PC 2 – PC 1

```
C:\>ping 198.198.198.2

Pinging 198.198.198.2 with 32 bytes of data:

Reply from 198.198.198.2: bytes=32 time=1ms TTL=127
Reply from 198.198.198.2: bytes=32 time<1ms TTL=127
Reply from 198.198.198.2: bytes=32 time=10ms TTL=127
Reply from 198.198.198.2: bytes=32 time=1ms TTL=127

Ping statistics for 198.198.198.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 3ms
```

- PC 2 – PC 5

```
C:\>ping 175.88.10.2

Pinging 175.88.10.2 with 32 bytes of data:

Reply from 175.88.10.2: bytes=32 time=1ms TTL=126
Reply from 175.88.10.2: bytes=32 time=2ms TTL=126
Reply from 175.88.10.2: bytes=32 time=11ms TTL=126
Reply from 175.88.10.2: bytes=32 time=1ms TTL=126

Ping statistics for 175.88.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 11ms, Average = 3ms
```

- PC 2 – PC 7

```
C:\>ping 197.198.199.2

Pinging 197.198.199.2 with 32 bytes of data:

Reply from 197.198.199.2: bytes=32 time=4ms TTL=125
Reply from 197.198.199.2: bytes=32 time=2ms TTL=125
Reply from 197.198.199.2: bytes=32 time=3ms TTL=125
Reply from 197.198.199.2: bytes=32 time=2ms TTL=125

Ping statistics for 197.198.199.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 4ms, Average = 2ms
```

- PC 4 – PC 0

```
Packet Tracer PC Command Line 1.0
C:\>ping 198.198.198.1

Pinging 198.198.198.1 with 32 bytes of data:

Reply from 198.198.198.1: bytes=32 time=2ms TTL=126
Reply from 198.198.198.1: bytes=32 time=1ms TTL=126
Reply from 198.198.198.1: bytes=32 time=1ms TTL=126
Reply from 198.198.198.1: bytes=32 time=1ms TTL=126

Ping statistics for 198.198.198.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

- PC 4 – PC 2

```
C:\>ping 188.14.15.1

Pinging 188.14.15.1 with 32 bytes of data:

Reply from 188.14.15.1: bytes=32 time=1ms TTL=126
Reply from 188.14.15.1: bytes=32 time=1ms TTL=126
Reply from 188.14.15.1: bytes=32 time=2ms TTL=126
Reply from 188.14.15.1: bytes=32 time=2ms TTL=126

Ping statistics for 188.14.15.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

- PC 4 – PC 6

```
C:\>ping 197.198.199.1

Pinging 197.198.199.1 with 32 bytes of data:

Reply from 197.198.199.1: bytes=32 time=1ms TTL=126
Reply from 197.198.199.1: bytes=32 time=4ms TTL=126
Reply from 197.198.199.1: bytes=32 time=2ms TTL=126
Reply from 197.198.199.1: bytes=32 time=1ms TTL=126

Ping statistics for 197.198.199.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 4ms, Average = 2ms
```

- PC 7 – PC 0

```
Packet Tracer PC Command Line 1.0
C:\>ping 198.198.198.1

Pinging 198.198.198.1 with 32 bytes of data:

Reply from 198.198.198.1: bytes=32 time=3ms TTL=125
Reply from 198.198.198.1: bytes=32 time=2ms TTL=125
Reply from 198.198.198.1: bytes=32 time=2ms TTL=125
Reply from 198.198.198.1: bytes=32 time=11ms TTL=125

Ping statistics for 198.198.198.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 11ms, Average = 4ms
```

- PC 7 – PC 2

```
C:\>ping 188.14.15.1

Pinging 188.14.15.1 with 32 bytes of data:

Reply from 188.14.15.1: bytes=32 time=2ms TTL=125
Reply from 188.14.15.1: bytes=32 time=2ms TTL=125
Reply from 188.14.15.1: bytes=32 time=2ms TTL=125
Reply from 188.14.15.1: bytes=32 time=2ms TTL=125

Ping statistics for 188.14.15.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 2ms, Average = 2ms
```

- PC 7 – PC 4

```
C:\>ping 175.88.10.1

Pinging 175.88.10.1 with 32 bytes of data:

Reply from 175.88.10.1: bytes=32 time=1ms TTL=126
Reply from 175.88.10.1: bytes=32 time=1ms TTL=126
Reply from 175.88.10.1: bytes=32 time=2ms TTL=126
Reply from 175.88.10.1: bytes=32 time=1ms TTL=126

Ping statistics for 175.88.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
```