PRAKTIKUM JARINGAN KOMPUTER KE-10

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Praktik

1. Kerjakan tugas berikut dengan alamat IP masing-masing PC, gateway, IP router, ditentukan sendiri jika diketahui akan dibangun sebuah jaringan dengan masing-masing dibutuhkan 8, 3, dan 10 PC (tidak termasuk untuk antar Router dan juga tidak termasuk IP untuk Router-Server). Aturlah konfigurasinya agar setiap perangkat tersebut dapat berkomunikasi satu dengan yang lain. Capture tabel routing dan hasil ping-nya.

   a. Table Routing

   - Router 0 dan Router 1

Routing Table for Router0

Type	Network	Port	Next Hop IP	Metric
S	201.202.203.0/27	---	201.202.203.106	1/0
S	201.202.203.32/28	---	201.202.203.102	1/0
S	201.202.203.48/30	---	201.202.203.106	1/0
S	201.202.203.64/28	---	201.202.203.98	1/0
C	201.202.203.80/28	FastEthernet0/0	---	0/0
C	201.202.203.96/30	FastEthernet2/0	---	0/0
C	201.202.203.100/30	FastEthernet1/0	---	0/0
S	201.202.203.104/30	---	201.202.203.98	1/0

Routing Table for Router1

Type	Network	Port	Next Hop IP	Metric
C	201.202.203.32/28	FastEthernet1/0	---	0/0
S	201.202.203.48/30	---	201.202.203.105	1/0
S	201.202.203.64/28	---	201.202.203.101	1/0
S	201.202.203.64/28	---	201.202.203.98	1/0
S	201.202.203.80/28	---	201.202.203.101	1/0
S	201.202.203.96/30	---	201.202.203.101	1/0
C	201.202.203.100/30	FastEthernet0/0	---	0/0
S	201.202.203.104/30	---	201.202.203.98	1/0

   - Router 2 dan Router 3

Routing Table for Router2

Type	Network	Port	Next Hop IP	Metric
S	201.202.202.80/28	---	201.202.203.97	1/0
S	201.202.203.0/27	---	201.202.203.106	1/0
S	201.202.203.32/28	---	201.202.203.97	1/0
S	201.202.203.48/28	---	201.202.203.106	1/0
S	201.202.203.48/30	---	201.202.203.106	1/0
C	201.202.203.64/28	FastEthernet2/0	---	0/0
S	201.202.203.80/28	---	201.202.203.97	1/0
C	201.202.203.96/30	FastEthernet0/0	---	0/0
C	201.202.203.104/30	FastEthernet1/0	---	0/0

Routing Table for Router3

Type	Network	Port	Next Hop IP	Metric
C	201.202.203.48/28	FastEthernet1/0	---	0/0
S	201.202.203.64/28	---	201.202.203.105	1/0
C	201.202.203.104/30	FastEthernet0/0	---	0/0

b. Tes ping

- PC O – PC 3

```
Pinging 201.202.203.33 with 32 bytes of data:

Request timed out.
Reply from 201.202.203.33: bytes=32 time=18ms TTL=254
Reply from 201.202.203.33: bytes=32 time<1ms TTL=254
Reply from 201.202.203.33: bytes=32 time<1ms TTL=254

Ping statistics for 201.202.203.33:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 18ms, Average = 6ms

C:\>ping 201.202.203.33

Pinging 201.202.203.33 with 32 bytes of data:

Reply from 201.202.203.33: bytes=32 time=1ms TTL=254
Reply from 201.202.203.33: bytes=32 time<1ms TTL=254
Reply from 201.202.203.33: bytes=32 time<1ms TTL=254
Reply from 201.202.203.33: bytes=32 time=3ms TTL=254

Ping statistics for 201.202.203.33:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 3ms, Average = 1ms

C:\>
```

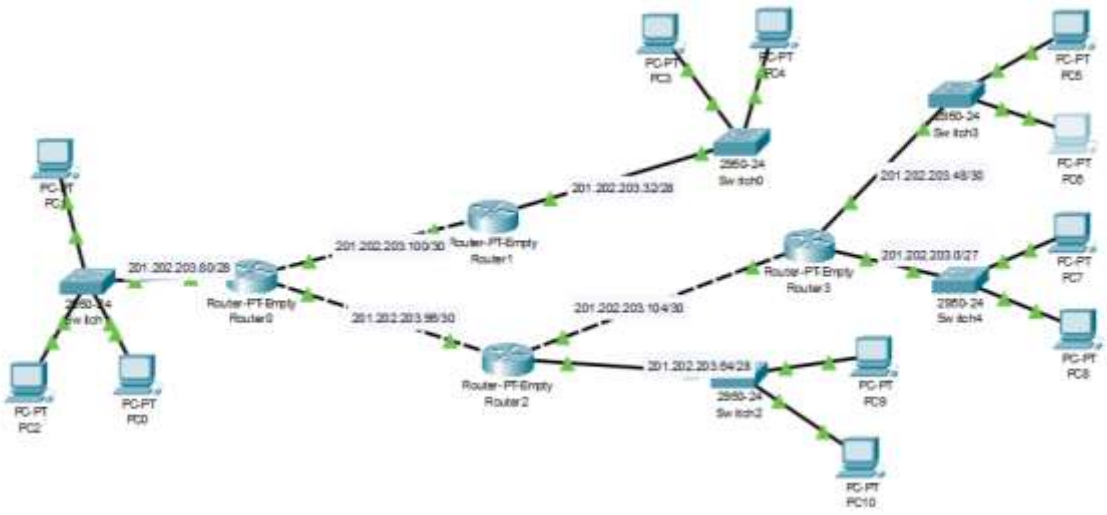
- PC 10 – PC 3

```
Packet Tracer PC Command Line 1.0
C:\>ping 201.202.203.33

Pinging 201.202.203.33 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 201.202.203.33:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 201.202.203.33

Pinging 201.202.203.33 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 201.202.203.33:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

- PC 8 – PC 5

```
Packet Tracer PC Command Line 1.0
C:\>ping 201.202.203.49

Pinging 201.202.203.49 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 201.202.203.49:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 201.202.203.49

Pinging 201.202.203.49 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 201.202.203.49:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

- Topologi jaringan



Tugas

1. Kerjakan tugas berikut dengan alamat IP masing-masing PC, gateway, IP router, ditentukan sendiri jika diketahui akan dibangun sebuah jaringan dengan masing-masing dibutuhkan 8, 3, dan 10 PC (tidak termasuk untuk antar Router dan juga tidak termasuk IP untuk Router-Server). Aturlah konfigurasinya agar setiap perangkat tersebut dapat berkomunikasi satu dengan yang lain. Capture tabel routing dan hasil ping-nya.
   a. Table routing
      - Router 0 dan Router 1

Routing Table for Router0

Type	Network	Port	Next Hop IP	Metric
S	195.89.99.0/28	---	195.89.99.48	1/0
S	195.89.99.0/28	---	195.89.99.50	1/0
S	195.89.99.16/28	---	195.89.99.54	1/0
S	195.89.99.16/30	---	195.89.99.54	1/0
S	195.89.99.32/28	---	195.89.99.50	1/0
C	195.89.99.48/30	FastEthernet1/0	---	0/0
C	195.89.99.52/30	FastEthernet2/0	---	0/0
C	195.89.99.56/30	FastEthernet0/0	---	0/0

Routing Table for Router1

Type	Network	Port	Next Hop IP	Metric
C	195.89.99.0/28	FastEthernet1/0	---	0/0
S	195.89.99.16/28	---	195.89.99.54	1/0
C	195.89.99.32/28	FastEthernet2/0	---	0/0
C	195.89.99.48/30	FastEthernet0/0	---	0/0
S	195.89.99.52/30	---	195.89.99.49	1/0
S	195.89.99.56/30	---	195.89.99.49	1/0

      - Router 2

Routing Table for Router2

Type	Network	Port	Next Hop IP	Metric
S	195.89.95.56/30	---	195.89.99.53	1/0
S	195.89.99.0/28	---	195.89.99.50	1/0
C	195.89.99.16/28	FastEthernet1/0	---	0/0
S	195.89.99.32/28	---	195.89.99.50	1/0
S	195.89.99.48/30	---	195.89.99.53	1/0
C	195.89.99.52/30	FastEthernet0/0	---	0/0
S	195.89.99.56/30	---	195.89.99.53	1/0

b. Test Ping

- PC 0 – PC 5

```
C:\>ping 195.89.99.18

Pinging 195.89.99.18 with 32 bytes of data:

Reply from 195.89.99.18: bytes=32 time=1ms TTL=125
Request timed out.
Reply from 195.89.99.18: bytes=32 time=1ms TTL=125
Request timed out.

Ping statistics for 195.89.99.18:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>
```

- PC 4 – Server

```
C:\>ping 195.89.99.57

Pinging 195.89.99.57 with 32 bytes of data:

Reply from 195.89.99.57: bytes=32 time<1ms TTL=126
Reply from 195.89.99.57: bytes=32 time=3ms TTL=126
Reply from 195.89.99.57: bytes=32 time=10ms TTL=126
Reply from 195.89.99.57: bytes=32 time<1ms TTL=126

Ping statistics for 195.89.99.57:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 3ms

C:\>
```

- PC 3 – Server

```
C:\>ping 195.89.99.57

Pinging 195.89.99.57 with 32 bytes of data:

Reply from 195.89.99.57: bytes=32 time<1ms TTL=126
Reply from 195.89.99.57: bytes=32 time=1ms TTL=126
Reply from 195.89.99.57: bytes=32 time<1ms TTL=126
Reply from 195.89.99.57: bytes=32 time<1ms TTL=126

Ping statistics for 195.89.99.57:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

- PC 2 – PC 4

```
Packet Tracer PC Command Line 1.0
C:\>ping 195.89.99.18

Pinging 195.89.99.18 with 32 bytes of data:

Reply from 195.89.99.18: bytes=32 time=118ms TTL=125
Reply from 195.89.99.18: bytes=32 time=13ms TTL=125
Reply from 195.89.99.18: bytes=32 time=1ms TTL=125
Reply from 195.89.99.18: bytes=32 time=3ms TTL=125

Ping statistics for 195.89.99.18:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 118ms, Average = 33ms
```