KONSEP JARINGAN LAPORAN TUGAS SOAL PRE UAS



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Kelas : 2 D4 IT A

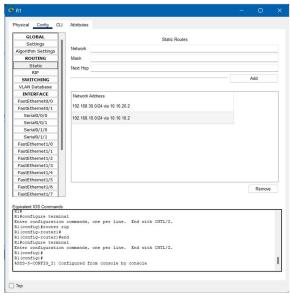
NRP : 3122600015

A. Konfigurasi

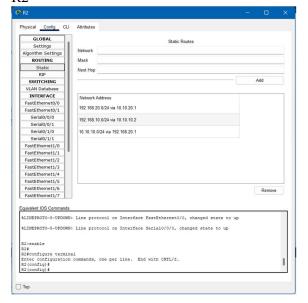
1. Soal 1

Konfigurasi menggunakan static supaya seluruh PC dapat terhubung dengan baik. Caranya ialah menambahkan address yang akan dilalui tiap PC ketika mengirim data

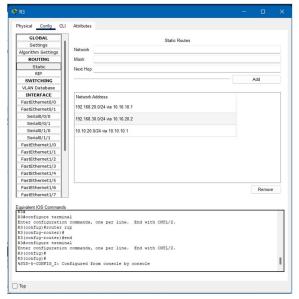
- R1



- R2



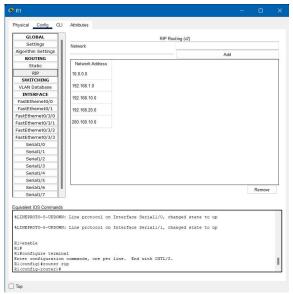
- R3



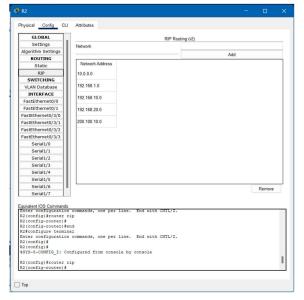
2. Soal 2

Konfigurasi supaya seluruh PC dapat terhubung ke ISP dengan baik. Caranya ialah menambahkan IP gateway menggunakan RIP di setiap router

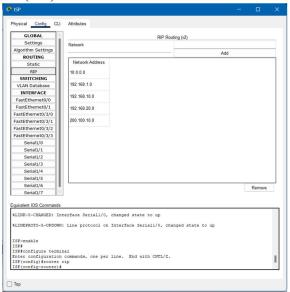
- R1



- R2

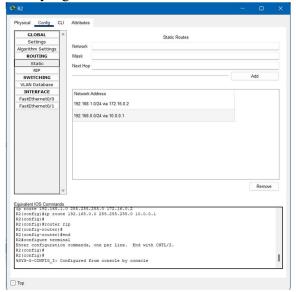


- R3 (ISP)



3. Soal 3

Supaya bisa PC0 bisa ping ke PC1 dan sebaliknya, anda perlu menambahkan Static route yang akan dilalui oleh data dari PC0 dan PC1



B. Perobaan Ping

1. Soal 1

- Dari PC0 ke PC3

```
C:\>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:

Request timed out.

Reply from 192.168.10.2: bytes=32 time=23ms TTL=125

Reply from 192.168.10.2: bytes=32 time=2ms TTL=125

Reply from 192.168.10.2: bytes=32 time=2ms TTL=125

Ping statistics for 192.168.10.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 23ms, Average = 9ms
```

- Dari PC2 ke PC1

```
C:\>ping 192.168.30.2

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2: bytes=32 time=42ms TTL=125

Reply from 192.168.30.2: bytes=32 time=23ms TTL=125

Reply from 192.168.30.2: bytes=32 time=40ms TTL=125

Reply from 192.168.30.2: bytes=32 time=20ms TTL=125

Ping statistics for 192.168.30.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 20ms, Maximum = 42ms, Average = 31ms
```

- Dari PC0 ke PC5

```
C:\>ping 192.168.20.2

Pinging 192.168.20.2 with 32 bytes of data:

Request timed out.

Reply from 192.168.20.2: bytes=32 time=3ms TTL=126

Reply from 192.168.20.2: bytes=32 time=1ms TTL=126

Reply from 192.168.20.2: bytes=32 time=12ms TTL=126

Ping statistics for 192.168.20.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 12ms, Average = 5ms
```

- Dari PC 4 ke PC1

```
C:\>ping 192.168.30.3

Pinging 192.168.30.3 with 32 bytes of data:

Reply from 192.168.30.3: bytes=32 time=lms TTL=126
Reply from 192.168.30.3: bytes=32 time=l3ms TTL=126
Reply from 192.168.30.3: bytes=32 time=lms TTL=126
Reply from 192.168.30.3: bytes=32 time=23ms TTL=126
Ping statistics for 192.168.30.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = lms, Maximum = 23ms, Average = 9ms
```

- Dari PC 4 ke PC2

```
C:\>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:

Reply from 192.168.10.2: bytes=32 time=37ms TTL=126
Reply from 192.168.10.2: bytes=32 time=1ms TTL=126
Reply from 192.168.10.2: bytes=32 time=18ms TTL=126
Reply from 192.168.10.2: bytes=32 time=3ms TTL=126
Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 37ms, Average = 14ms
```

- Dari PC3 ke PC5

```
C:\>ping 192.168.20.2

Pinging 192.168.20.2 with 32 bytes of data:

Reply from 192.168.20.2: bytes=32 time=lms TTL=126
Reply from 192.168.20.2: bytes=32 time=l7ms TTL=126
Reply from 192.168.20.2: bytes=32 time=lms TTL=126
Reply from 192.168.20.2: bytes=32 time=lms TTL=126
Ping statistics for 192.168.20.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = lms, Maximum = 17ms, Average = 5ms
```

2. Soal 2

- Dari PC0 ke PC5

```
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Request timed out.

Reply from 192.168.1.2: bytes=32 time<lms TTL=127

Reply from 192.168.1.2: bytes=32 time<lms TTL=127

Reply from 192.168.1.2: bytes=32 time<lms TTL=127

Ping statistics for 192.168.1.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Dari PC4 ke PC1

```
C:\>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:

Request timed out.

Reply from 192.168.10.2: bytes=32 time<1ms TTL=127

Reply from 192.168.10.2: bytes=32 time<1ms TTL=127

Reply from 192.168.10.2: bytes=32 time=1ms TTL=127

Ping statistics for 192.168.10.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

- Dari PC2 ke PC7

```
Pinging 192.168.20.4 with 32 bytes of data:

Request timed out.

Reply from 192.168.20.4: bytes=32 time=1ms TTL=126

Reply from 192.168.20.4: bytes=32 time=53ms TTL=126

Reply from 192.168.20.4: bytes=32 time=36ms TTL=126

Ping statistics for 192.168.20.4:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 53ms, Average = 30ms
```

- Dari PC6 ke PC2

```
C:\>ping 192.168.10.2
Pinging 192.168.10.2 with 32 bytes of data:

Reply from 192.168.10.2: bytes=32 time=lms TTL=126
Reply from 192.168.10.2: bytes=32 time=lms TTL=126
Reply from 192.168.10.2: bytes=32 time=l3ms TTL=126
Reply from 192.168.10.2: bytes=32 time=5lms TTL=126
Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = lms, Maximum = 5lms, Average = 16ms
```

- Dari PC6 ke PC3

```
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Request timed out.

Reply from 192.168.1.4: bytes=32 time=19ms TTL=126

Reply from 192.168.1.4: bytes=32 time=2ms TTL=126

Reply from 192.168.1.4: bytes=32 time=19ms TTL=126

Ping statistics for 192.168.1.4:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 19ms, Average = 13ms
```

- Dari PC2 ke Web Server

```
C:\>ping 192.168.20.11

Pinging 192.168.20.11 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.11: bytes=32 time=18ms TTL=126
Reply from 192.168.20.11: bytes=32 time=2ms TTL=126
Reply from 192.168.20.11: bytes=32 time=4ms TTL=126

Ping statistics for 192.168.20.11:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 18ms, Average = 8ms
```

- Dari PC2 ke File Server

```
C:\>ping 192.168.20.10

Pinging 192.168.20.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.10: bytes=32 time=14ms TTL=126
Reply from 192.168.20.10: bytes=32 time=12ms TTL=126
Reply from 192.168.20.10: bytes=32 time=10ms TTL=126
Ping statistics for 192.168.20.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 14ms, Average = 12ms
```

- Dari PC4 ke Web Server

```
C:\>ping 192.168.20.11

Pinging 192.168.20.11 with 32 bytes of data:

Reply from 192.168.20.11: bytes=32 time=11ms TTL=126
Reply from 192.168.20.11: bytes=32 time=38ms TTL=126
Reply from 192.168.20.11: bytes=32 time=1ms TTL=126
Reply from 192.168.20.11: bytes=32 time=32ms TTL=126
Ping statistics for 192.168.20.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 38ms, Average = 20ms
```

- Dari PC4 ke File Server

```
C:\>ping 192.168.20.10

Pinging 192.168.20.10 with 32 bytes of data:

Reply from 192.168.20.10: bytes=32 time=21ms TTL=126
Reply from 192.168.20.10: bytes=32 time=13ms TTL=126
Reply from 192.168.20.10: bytes=32 time=22ms TTL=126
Reply from 192.168.20.10: bytes=32 time=3ms TTL=126
Ping statistics for 192.168.20.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 22ms, Average = 14ms
```

- Dari PC7 ke Web Server

```
C:\>ping 192.168.20.11
Pinging 192.168.20.11 with 32 bytes of data:
Reply from 192.168.20.11: bytes=32 time<lms TTL=128
Ping statistics for 192.168.20.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

- Dari PC7 ke File Server

```
C:\>ping 192.168.20.10
Pinging 192.168.20.10 with 32 bytes of data:
Reply from 192.168.20.10: bytes=32 time=lms TTL=128
Reply from 192.168.20.10: bytes=32 time<lms TTL=128
Reply from 192.168.20.10: bytes=32 time<lms TTL=128
Reply from 192.168.20.10: bytes=32 time<lms TTL=128
Ping statistics for 192.168.20.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = lms, Average = 0ms</pre>
```

3. Soal 3

- Dari PC0 ke PC1

```
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Request timed out.

Request timed out.

Reply from 192.168.1.2: bytes=32 time=24ms TTL=125

Reply from 192.168.1.2: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.1.2:

Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 24ms, Average = 12ms
```

- Dari PC1 ke PC0

```
C:\>ping 192.168.0.6

Pinging 192.168.0.6 with 32 bytes of data:

Reply from 192.168.0.6: bytes=32 time<lms TTL=125
Reply from 192.168.0.6: bytes=32 time=lms TTL=125
Reply from 192.168.0.6: bytes=32 time<lms TTL=125
Reply from 192.168.0.6: bytes=32 time<lms TTL=125
Ping statistics for 192.168.0.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = lms, Average = 0ms</pre>
```