

Laporan Resmi

UAS

Diajukan untuk Memenuhi Tugas Mata Kuliah

Praktikum Konsep Jaringan

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Oleh:

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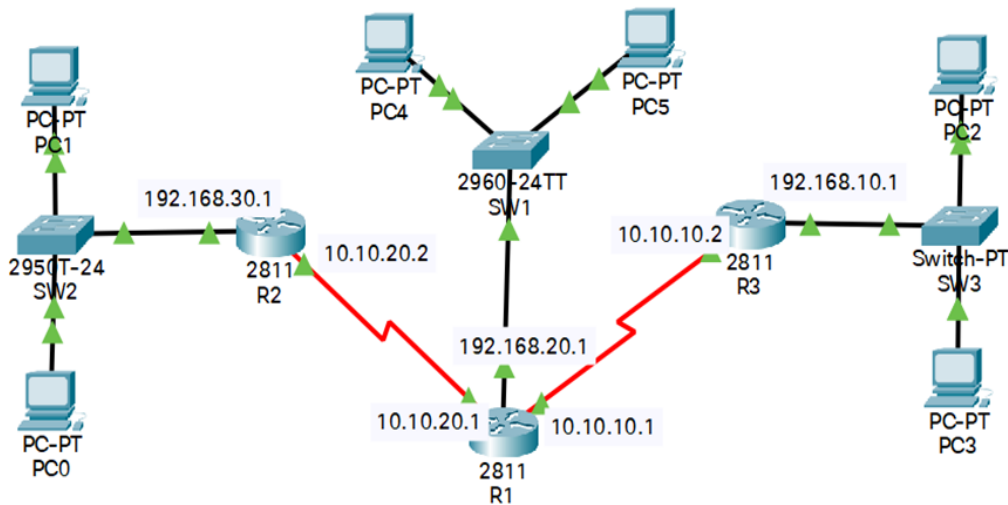
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Soal 1



Configuration R1

- Masuk ke mode konfigurasi global pada R1 dengan perintah `configure terminal`.
- Konfigurasi IP address pada interface Serial 0/0/0 dengan perintah `ip address 192.168.10.2 255.255.255.0`.
- Konfigurasi IP address pada interface Serial 0/0/1 dengan perintah `ip address 10.10.10.1 255.255.255.0`.
- Konfigurasi tabel routing statis untuk jaringan 192.168.20.0/24 dengan perintah `ip route 192.168.20.0 255.255.255.0 192.168.10.1`.
- Konfigurasi tabel routing statis untuk jaringan 10.10.20.0/24 dengan perintah `ip route 10.10.20.0 255.255.255.0 10.10.10.2`.

Configuration R2

- Masuk ke mode konfigurasi global pada R2 dengan perintah `configure terminal`.
- Konfigurasi IP address pada interface Serial 0/0/0 dengan perintah `ip address 192.168.10.1 255.255.255.0`.
- Konfigurasi IP address pada interface Serial 0/0/1 dengan perintah `ip address 10.10.20.2 255.255.255.0`.
- Konfigurasi tabel routing statis untuk jaringan 192.168.30.0/24 dengan perintah `ip route 192.168.30.0 255.255.255.0 192.168.10.2`.

Configuration R3

- Masuk ke mode konfigurasi global pada R3 dengan perintah `configure terminal`.
- Konfigurasi IP address pada interface Serial 0/0/1 dengan perintah `ip address 10.10.10.2 255.255.255.0`.

- Konfigurasi tabel routing statik untuk jaringan 192.168.10.0/24 dengan perintah `ip route 192.168.10.0 255.255.255.0 10.10.20.1`.

PING TEST | PC 1 ke PC 2

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PING TEST | PC 1 ke PC 5

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.20.1

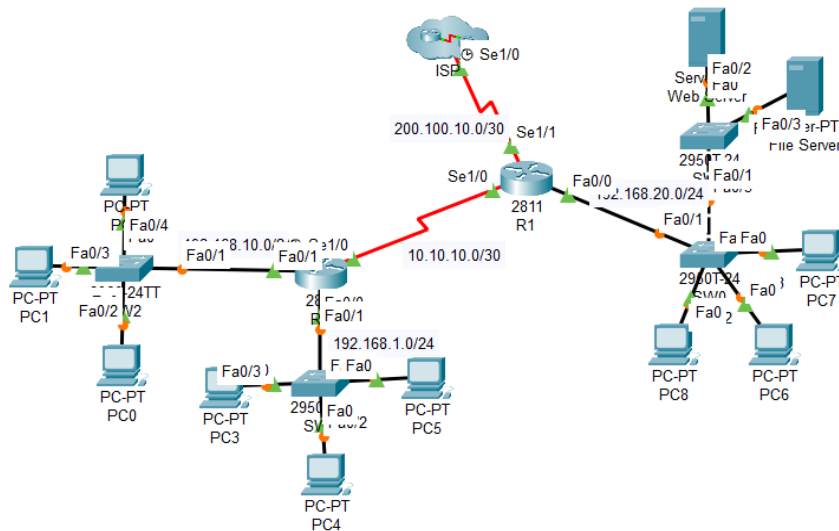
Pinging 192.168.20.1 with 32 bytes of data:

Reply from 192.168.20.1: bytes=32 time=12ms TTL=254
Reply from 192.168.20.1: bytes=32 time=10ms TTL=254
Reply from 192.168.20.1: bytes=32 time=12ms TTL=254
Reply from 192.168.20.1: bytes=32 time=7ms TTL=254

Ping statistics for 192.168.20.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 12ms, Average = 10ms

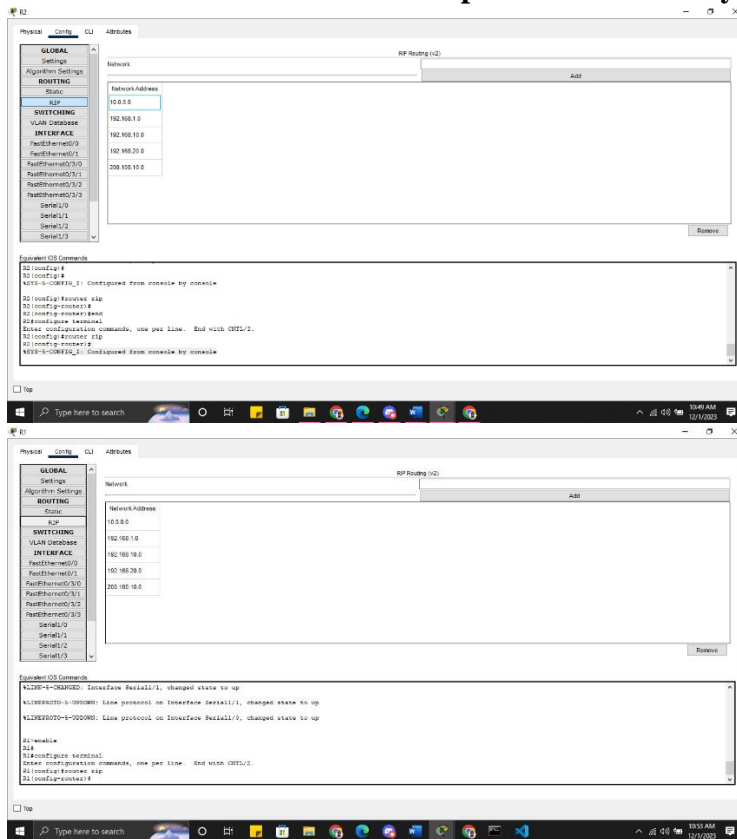
C:\>
```

Soal 2

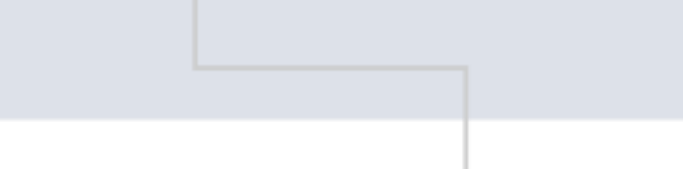


PENYELESAIAN

1. Menambahkan RIP untuk tiap Network Address yang ada pada router 1 dan 2



PING TEST | PC 1 ke PC 6



```
Pinging 192.168.20.1 with 32 bytes of data:
```

```
Reply from 192.168.20.1: bytes=32 time=13ms TTL=254
```

```
Reply from 192.168.20.1: bytes=32 time=3ms TTL=254
```

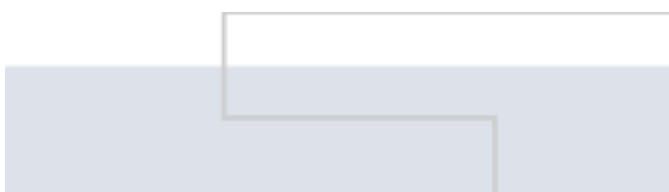
```
Reply from 192.168.20.1: bytes=32 time=3ms TTL=254
```

```
Reply from 192.168.20.1: bytes=32 time=10ms TTL=254
```

```
Ping statistics for 192.168.20.1:
```

```
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:
```

```
    Minimum = 3ms, Maximum = 13ms, Average = 7ms
```



Soal 3

Problem Solving

1. Add Static at Router 1

Network Address
192.168.1.0/24 via 10.0.0.2

2. Add Static at Router 2

Network Address
192.168.1.0/24 via 172.16.0.2
192.168.0.0/24 via 10.0.0.1

3. Add Static at Router 3

Network Address
192.168.0.0/24 via 172.16.0.1

Tes Konektivitas

```
Cisco Packet Tracer PC Command Line 1.0
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<1ms 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 = 0ms, Average = 0ms

C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=14ms TTL=125
Reply from 192.168.1.2: bytes=32 time=10ms TTL=125
Reply from 192.168.1.2: bytes=32 time=10ms TTL=125
Reply from 192.168.1.2: bytes=32 time=10ms TTL=125

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 14ms, Average = 11ms

C:\>|
```