

LAPORAN RESMI

UAS

**Diajukan Guna Memenuhi Tugas Mata Kuliah
” Konsep Jaringan ”
Dosen : Dr. Ferry Astika Saputra ST, M.Sc.**



Oleh:

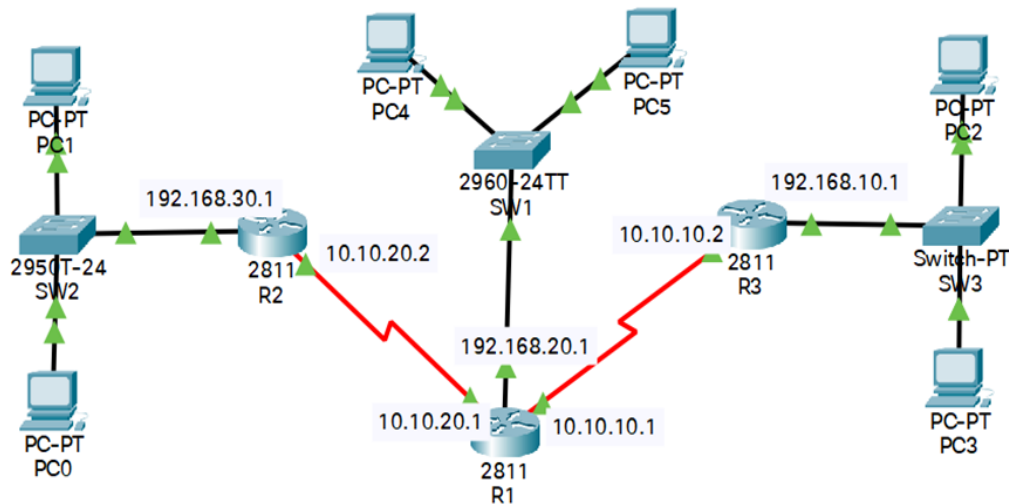
**Dukhaan Kamimpangan (3122600003)
Kelas : 2 - D4 Teknik Informatika**

**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA
DEPARTEMEN TEKNIK INFORMATIKA DAN KOMPUTER
DIPLOMA EMPAT TEKNIK INFORMATIKA
SURABAYA
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UJIAN AKHIR SEMESTER

CISCO PACKET TRACER

1. Soal-1.pkt



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 statik 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 statik 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 statik 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

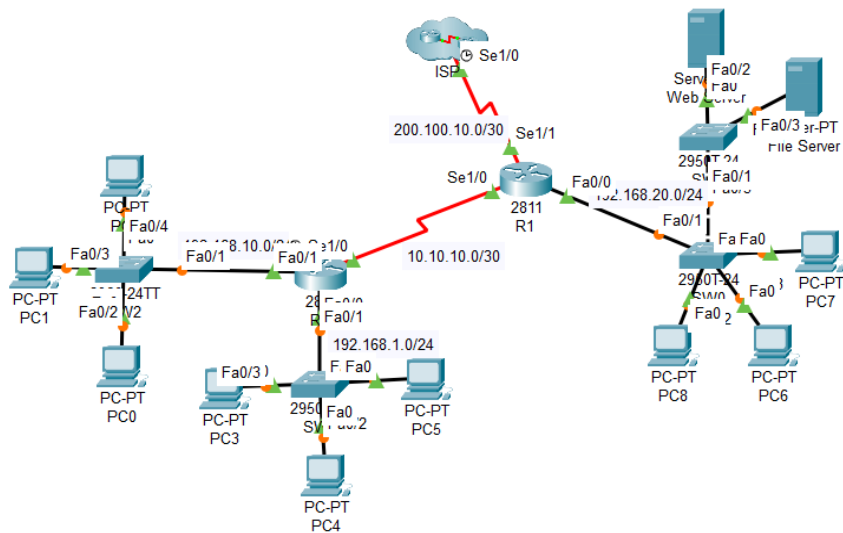
Pinging 192.168.20.1 with 32 bytes of data:

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:\>
```

2. Soal-2.pkt



RIP | Router 1

Physical Config CLI Attributes

GLOBAL Settings Algorithm Settings ROUTING Static SWITCHING VLAN Database INTERFACE FastEthernet0/0 FastEthernet0/1 FastEthernet0/3/0 FastEthernet0/3/1 FastEthernet0/3/2 FastEthernet0/3/3 Serial1/0 Serial1/1 Serial1/2 Serial1/3

RIP Routing (v2)

Network

Network Address

10.0.0.0
192.168.1.0
192.168.10.0
192.168.20.0
200.100.10.0

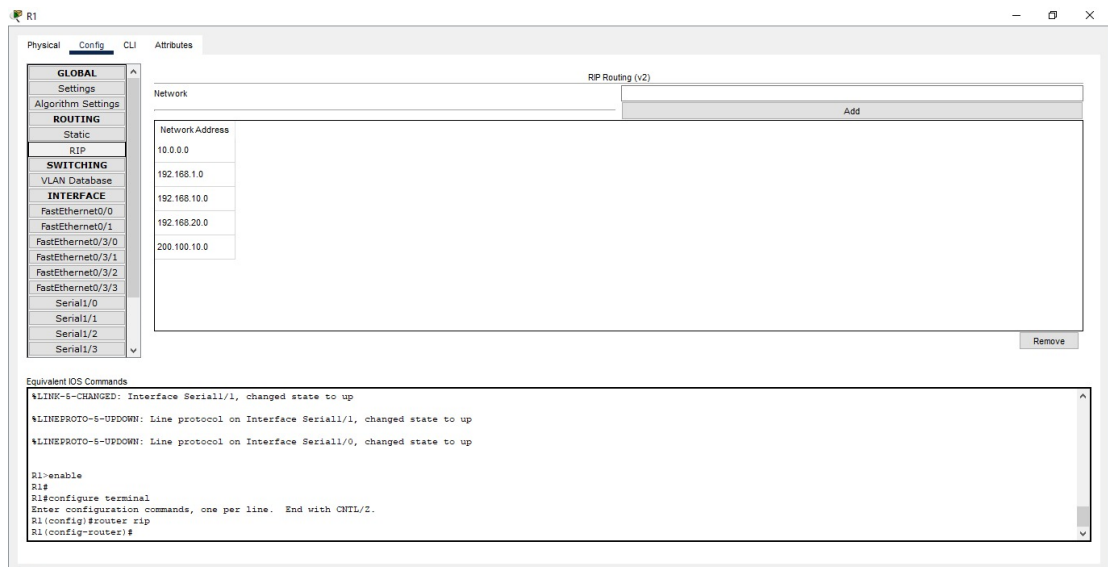
Remove

Equivalent IOS Commands

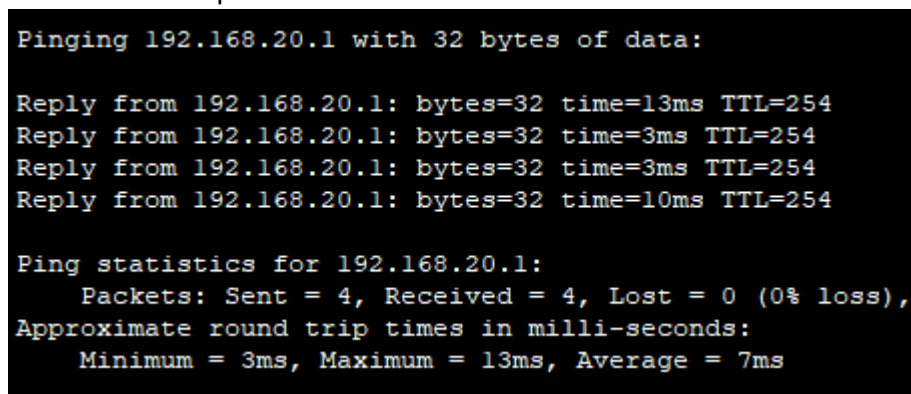
```
R1(config)#
R1(config)#
%SYS-5-CONFIG_I: Configured from console by console

R1(config)#router rip
R1(config-router)#
R1(config-router)#end
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#router rip
R1(config-router)#
%SYS-5-CONFIG_I: Configured from console by console
```

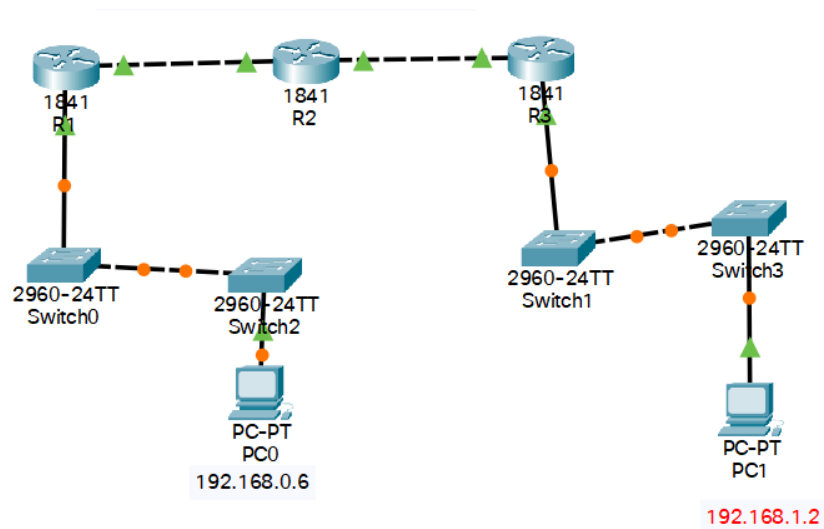
RIP | Router 2



PING TEST | PC 1 ke PC 6



3. Soal-3.pkt



Router 1

Network Address
192.168.1.0/24 via 10.0.0.2

Router 2

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

Router 3

Network Address

192.168.0.0/24 via 172.16.0.1

PING TEST | PC 0 ke PC 1

```
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:\>|
```