

Laporan Resmi

PROJECT UAS

Diajukan untuk Memenuhi Tugas Mata Kuliah

”Praktikum Konsep Jaringan”

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2 D4 Teknik Informatika A

Semester 3

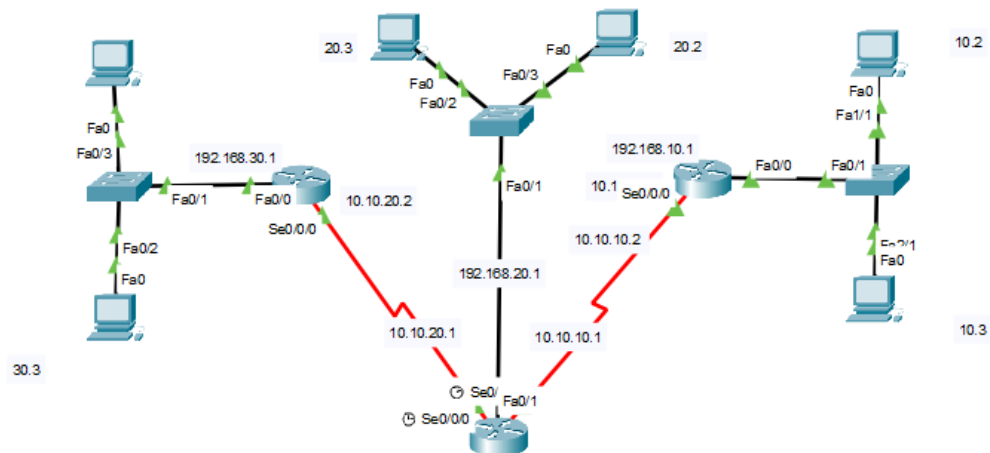
D4 Teknik Informatika

Departemen Teknik Informatika dan Komputer

Politeknik Elektronika Negeri Surabaya

Nomor 1

Konfigurasi tabel routing pada R1, R2 dan R3 dengan menggunakan statik routing sehingga seluruh PC yang ada dapat terhubung dengan baik.



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 PC0 KE PC 2

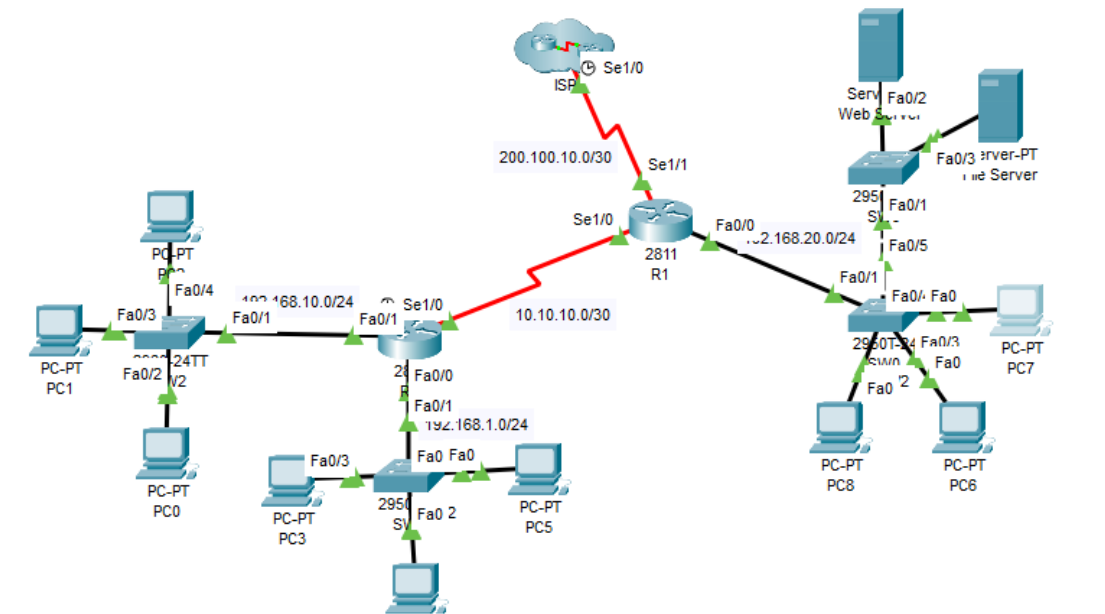
```
Pinging 192.168.10.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.10.2: bytes=32 time=2ms TTL=125
Reply from 192.168.10.2: bytes=32 time=20ms TTL=125
Reply from 192.168.10.2: bytes=32 time=29ms 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 = 29ms, Average = 17ms

C:\>
```

Nomor 2



Configurasi RIP R1 & R2

The top screenshot shows the 'Global' configuration page of a Cisco switch. The 'Static' routing protocol is selected under the 'ROUTING' section. The 'Network' table lists the following IP addresses: 10.0.0.0, 192.168.1.0, 192.168.10.0, 192.168.20.0, and 200.100.10.0. The 'Add' button is visible at the bottom right of the table.

The bottom screenshot shows the 'CLI' command window with the following commands entered:

```

Switch01>
Switch01>enable
Switch01#
Switch01#configure terminal
Switch01(config)#router ospf
Switch01(config-router)#
Switch01(config-router)#network 10.0.0.0/24
Switch01(config-router)#network 192.168.1.0/24
Switch01(config-router)#network 192.168.10.0/24
Switch01(config-router)#network 192.168.20.0/24
Switch01(config-router)#network 200.100.10.0/24
Switch01(config-router)#exit
Switch01#show ip ospf
Switch01#

```

Ping Test PC1 KE PC7

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.20.4

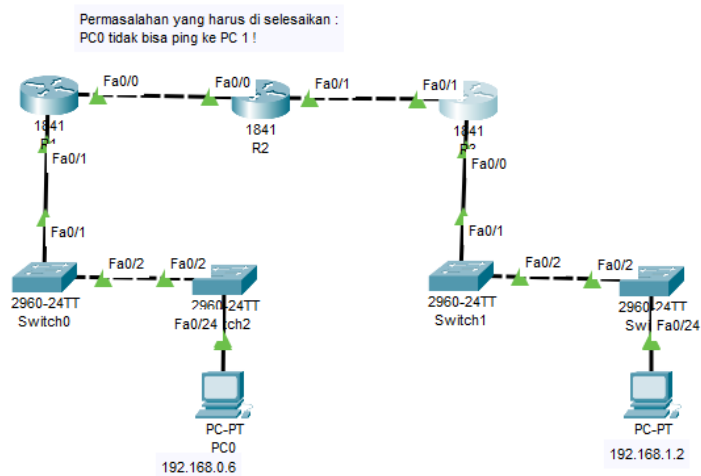
Pinging 192.168.20.4 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.4: bytes=32 time=8ms TTL=126
Reply from 192.168.20.4: bytes=32 time=2ms TTL=126
Reply from 192.168.20.4: bytes=32 time=16ms 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 = 2ms, Maximum = 16ms, Average = 8ms

C:\>
```

Nomor 3



Menambahkan Static R1

Network Address
192.168.1.0/24 via 10.0.0.2

Menambahkan Static R2

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

Menambahkan Static R3

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

Ping Test PC0 KE PC1

```
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 = 1ms, Average = 0ms

C:\>
```