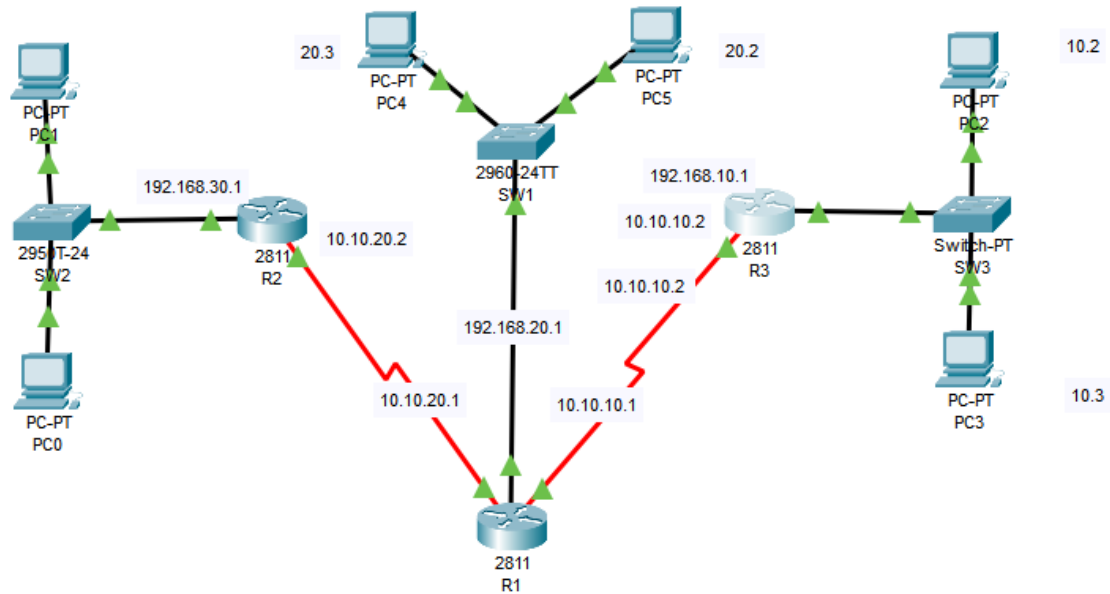


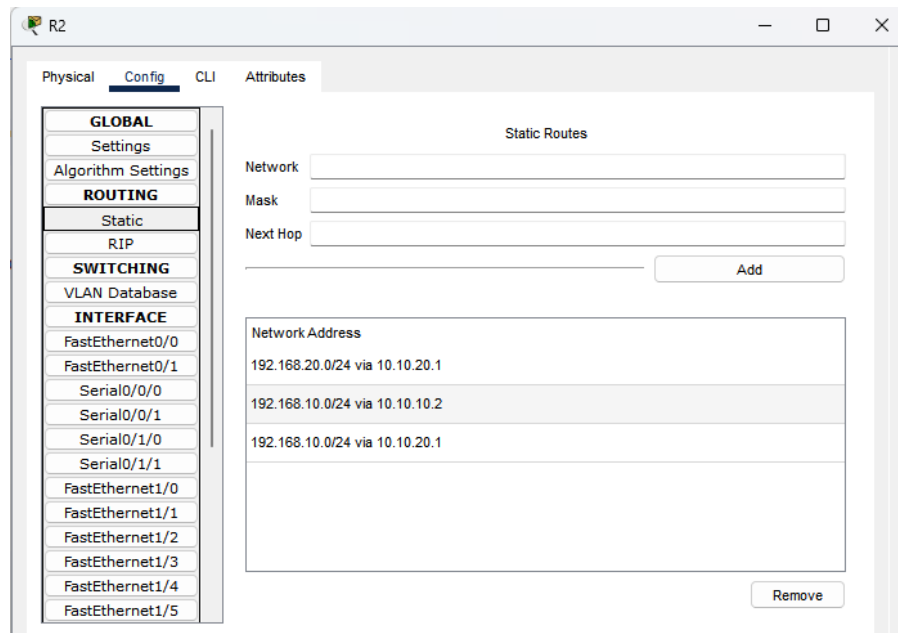
Nama : Muhammad Fattachul Aziz  
Kelas : 2 D4IT A  
NRP : 3122600018

1. Jaringan dengan topologi (file:Soal-1.pkt) :



Route Table:

- Router R1



- Router

R2

The screenshot shows the configuration window for Router R2. The 'Config' tab is active, and the 'Static Routes' section is selected in the left-hand menu. The main area displays the 'Static Routes' configuration. It includes input fields for 'Network', 'Mask', and 'Next Hop'. Below these fields is an 'Add' button. A table lists the configured static routes:

Network Address
192.168.20.0/24 via 10.10.20.1
192.168.10.0/24 via 10.10.10.2
192.168.10.0/24 via 10.10.20.1

At the bottom right of the table is a 'Remove' button.

- Router R3

The screenshot shows the configuration window for Router R3. The 'Config' tab is active, and the 'Static Routes' section is selected in the left-hand menu. The main area displays the 'Static Routes' configuration. It includes input fields for 'Network', 'Mask', and 'Next Hop'. Below these fields is an 'Add' button. A table lists the configured static routes:

Network Address
192.168.20.0/24 via 10.10.10.1
192.168.30.0/24 via 10.10.20.2
192.168.30.0/24 via 10.10.10.1

At the bottom right of the table is a 'Remove' button.

Test Ping :

- PC0 ke PC2

```
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=3ms TTL=125
Reply from 192.168.10.2: bytes=32 time=10ms TTL=125
Reply from 192.168.10.2: bytes=32 time=20ms 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 = 3ms, Maximum = 20ms, Average = 11ms
```

- PC0 ke PC4

```
C:\>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.3: bytes=32 time=9ms TTL=126
Reply from 192.168.20.3: bytes=32 time=8ms TTL=126
Reply from 192.168.20.3: bytes=32 time=16ms TTL=126

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 8ms, Maximum = 16ms, Average = 11ms
```

- PC2 ke PC4

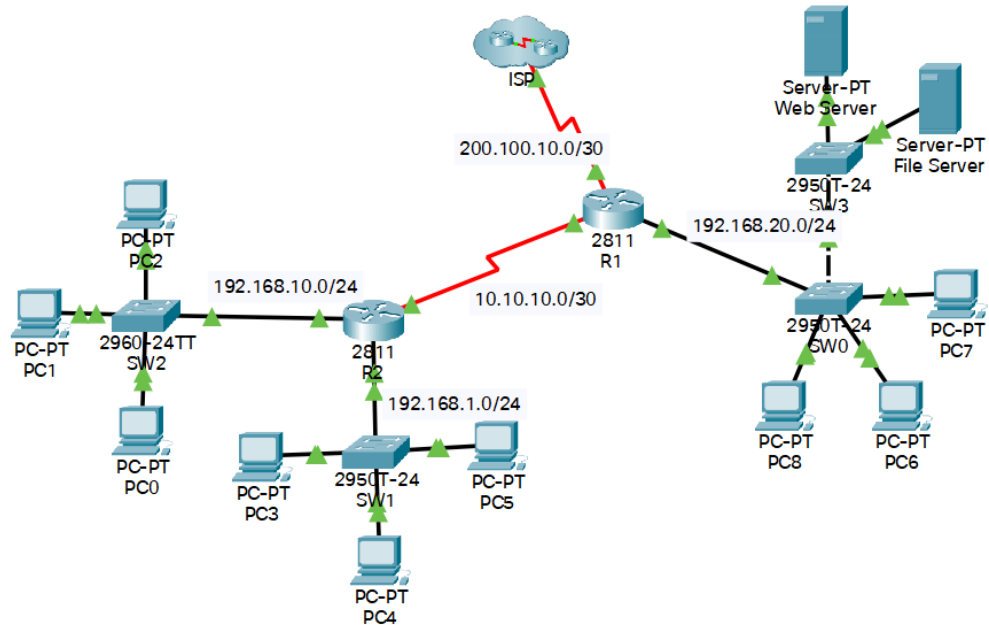
```
C:\>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3: bytes=32 time=1ms TTL=126
Reply from 192.168.20.3: bytes=32 time=20ms TTL=126
Reply from 192.168.20.3: bytes=32 time=9ms TTL=126
Reply from 192.168.20.3: bytes=32 time=8ms TTL=126

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 20ms, Average = 9ms
```

2. Diketahui jaringan dengan topologi (file:Soal-2.pkt):



Test Ping:

- PC0 ke PC3

```
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.3: bytes=32 time<1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=9ms TTL=127
Reply from 192.168.1.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 9ms, Average = 3ms
```

- PC0 ke PC8

```
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=1ms TTL=126
Reply from 192.168.20.2: bytes=32 time=13ms TTL=126
Reply from 192.168.20.2: bytes=32 time=2ms 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 = 13ms, Average = 5ms
```

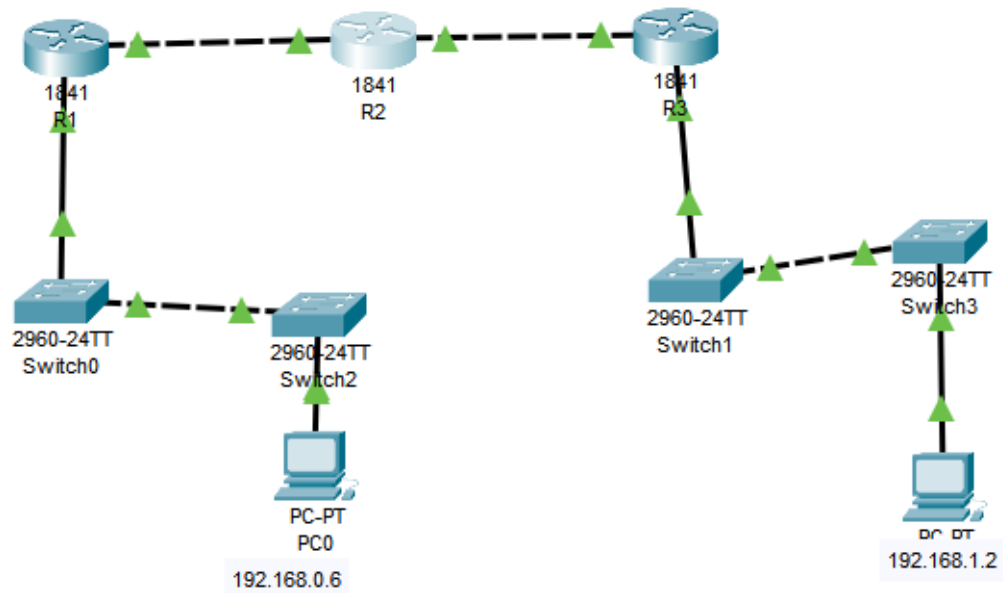
- PC3 ke PC8

```
Pinging 192.168.20.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.2: bytes=32 time=14ms TTL=126
Reply from 192.168.20.2: bytes=32 time=11ms TTL=126
Reply from 192.168.20.2: bytes=32 time=11ms TTL=126

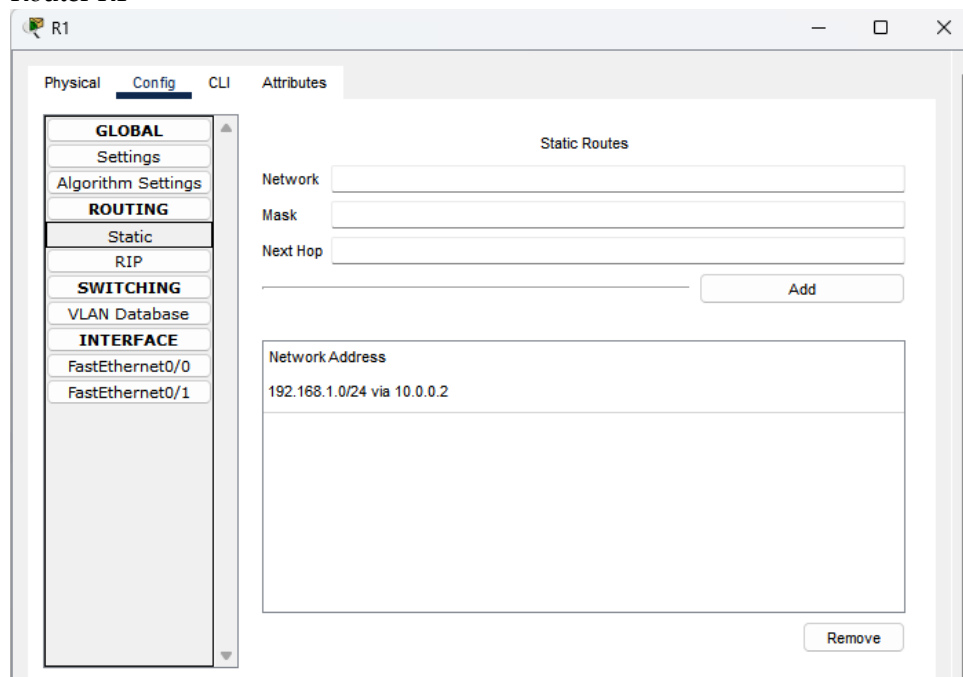
Ping statistics for 192.168.20.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 14ms, Average = 12ms
```

3. Diketahui jaringan dengan topologi (file:Soal-3.pkt):



Route Table:

- Router R1



- Route R2

R2

Physical
Config
CLI
Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Static Routes

Network
Mask
Next Hop

Add

Network Address

192.168.1.0/24 via 172.16.0.2

192.168.0.0/24 via 10.0.0.1

Remove

- Router R3

R3

Physical
Config
CLI
Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Static Routes

Network
Mask
Next Hop

Add

Network Address

192.168.0.0/24 via 172.16.0.1

Remove

Test Ping :

```
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
```