

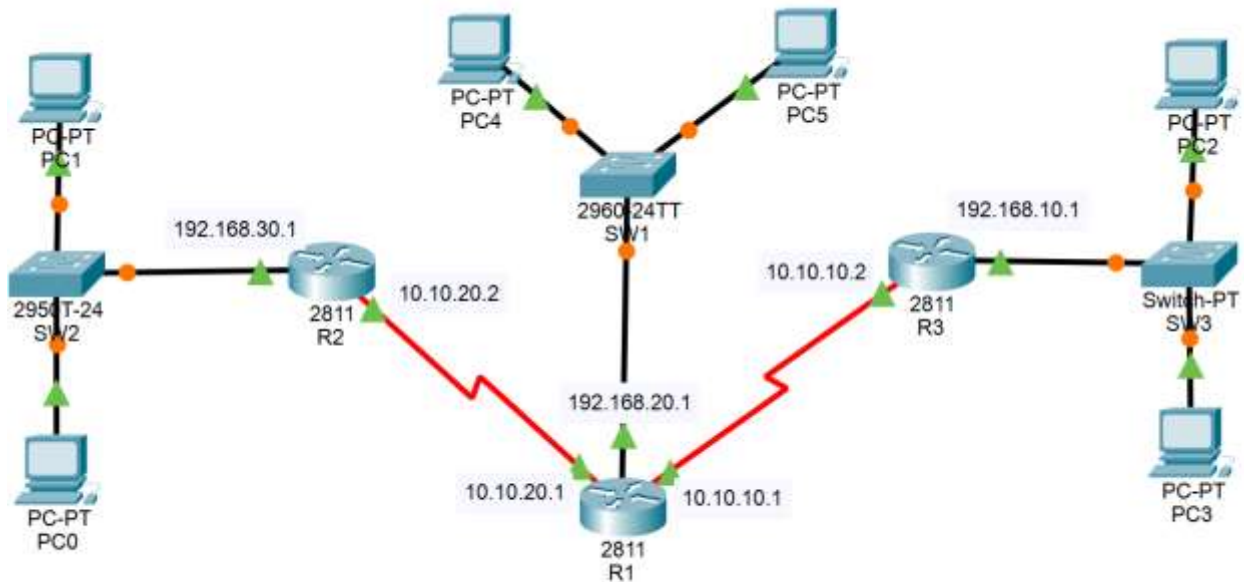
PRAKTIK AKHIR
Mata Kuliah Konsep Jaringan



Dosen
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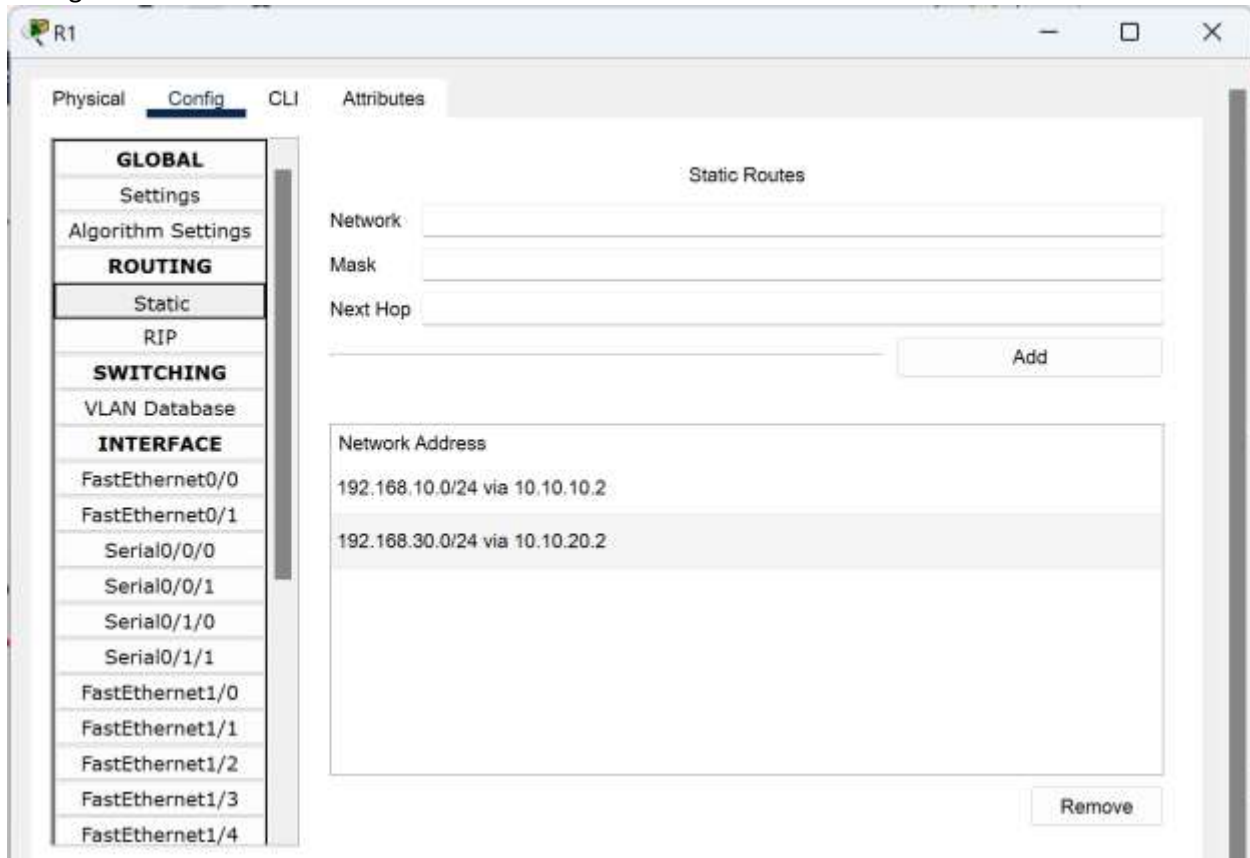
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Soal 1



Konfigurasi tabel routing pada R1, R2 dan R3 dengan menggunakan statik routing sehingga seluruh PC yang ada dapat terhubung dengan baik. (20%)

Konfigurasi router R1

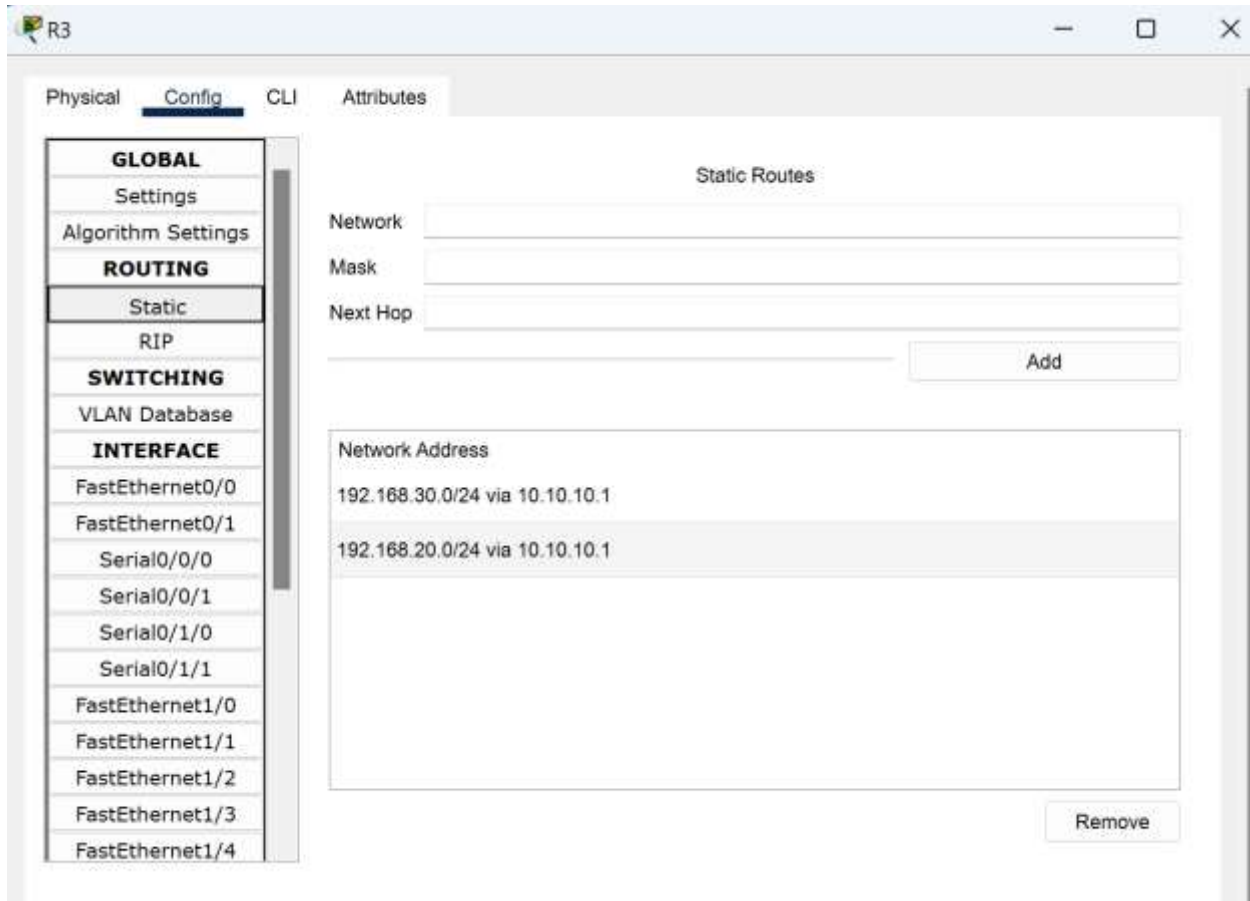


Konfigurasi Router R2

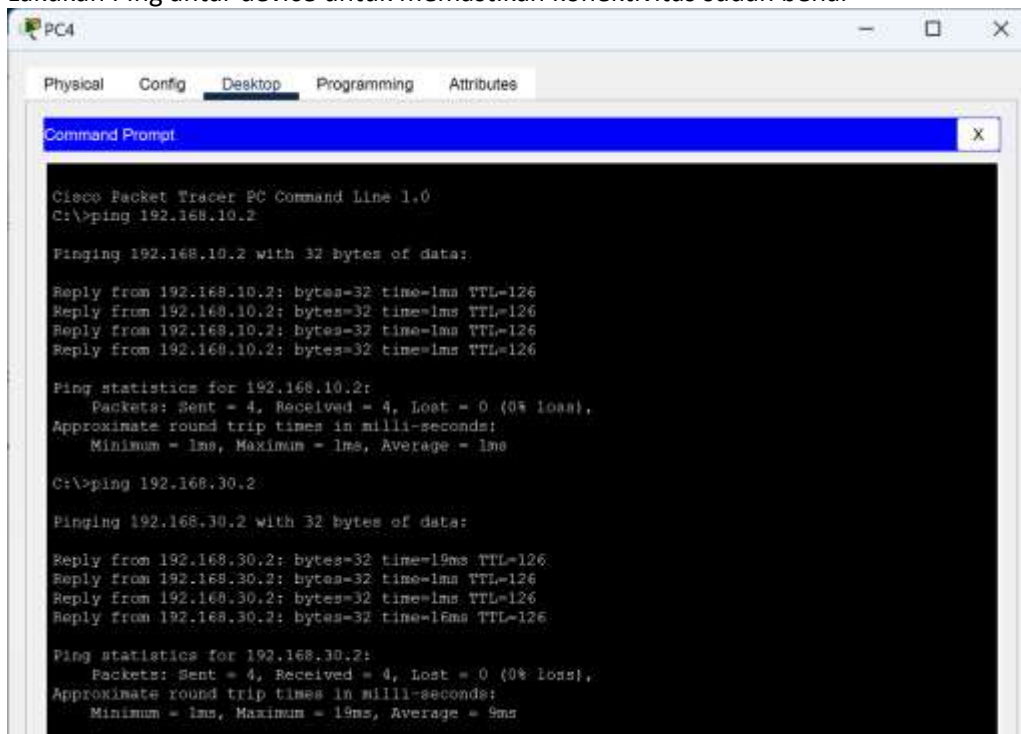
The screenshot shows the configuration window for Router R2. The 'Config' tab is selected, and the 'Static Routes' section is active. The left sidebar contains a tree view with categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), SWITCHING (VLAN Database), and INTERFACE (FastEthernet0/0, FastEthernet0/1, Serial0/0/0, Serial0/0/1, Serial0/1/0, Serial0/1/1, FastEthernet1/0, FastEthernet1/1, FastEthernet1/2, FastEthernet1/3, FastEthernet1/4). The main area has input fields for Network, Mask, and Next Hop, followed by an 'Add' button. Below this is a table of configured static routes with columns for Network Address and the route description. The table contains two entries: 192.168.10.0/24 via 10.10.20.1 and 192.168.20.0/24 via 10.10.20.1. A 'Remove' button is located at the bottom right of the table.

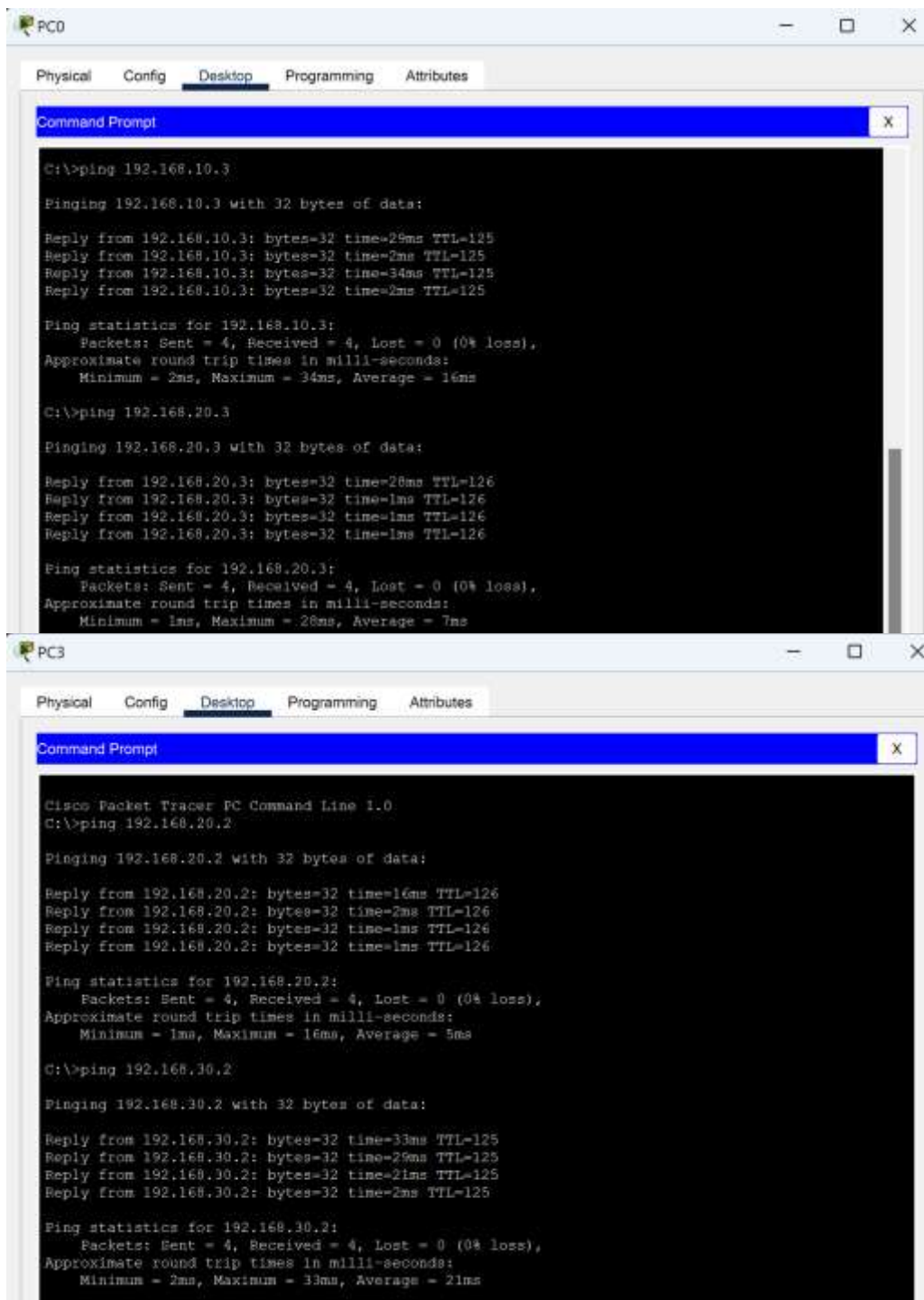
Network Address	Route
192.168.10.0/24	via 10.10.20.1
192.168.20.0/24	via 10.10.20.1

Konfigurasi Router R3



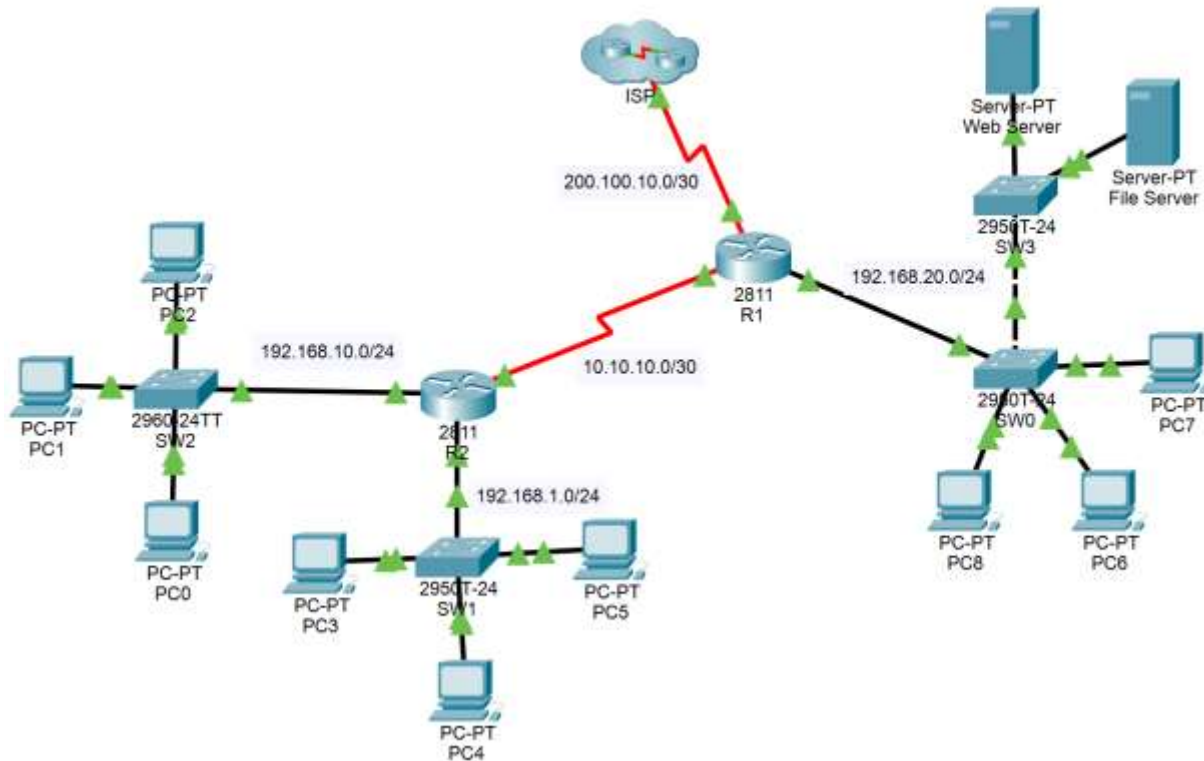
Lakukan Ping antar device untuk memastikan konektivitas sudah benar





Soal 2

Konfigurasi tabel routing pada R1, R2 dan R3 dengan menggunakan RIP sehingga seluruh PC dapat terhubung ke ISP dengan baik



Konfigurasi Router R1

R1

Physical Config CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP**

SWITCHING

- VLAN Database

INTERFACE

- FastEthernet0/0
- FastEthernet0/1
- FastEthernet0/3/0
- FastEthernet0/3/1
- FastEthernet0/3/2
- FastEthernet0/3/3
- Serial1/0
- Serial1/1

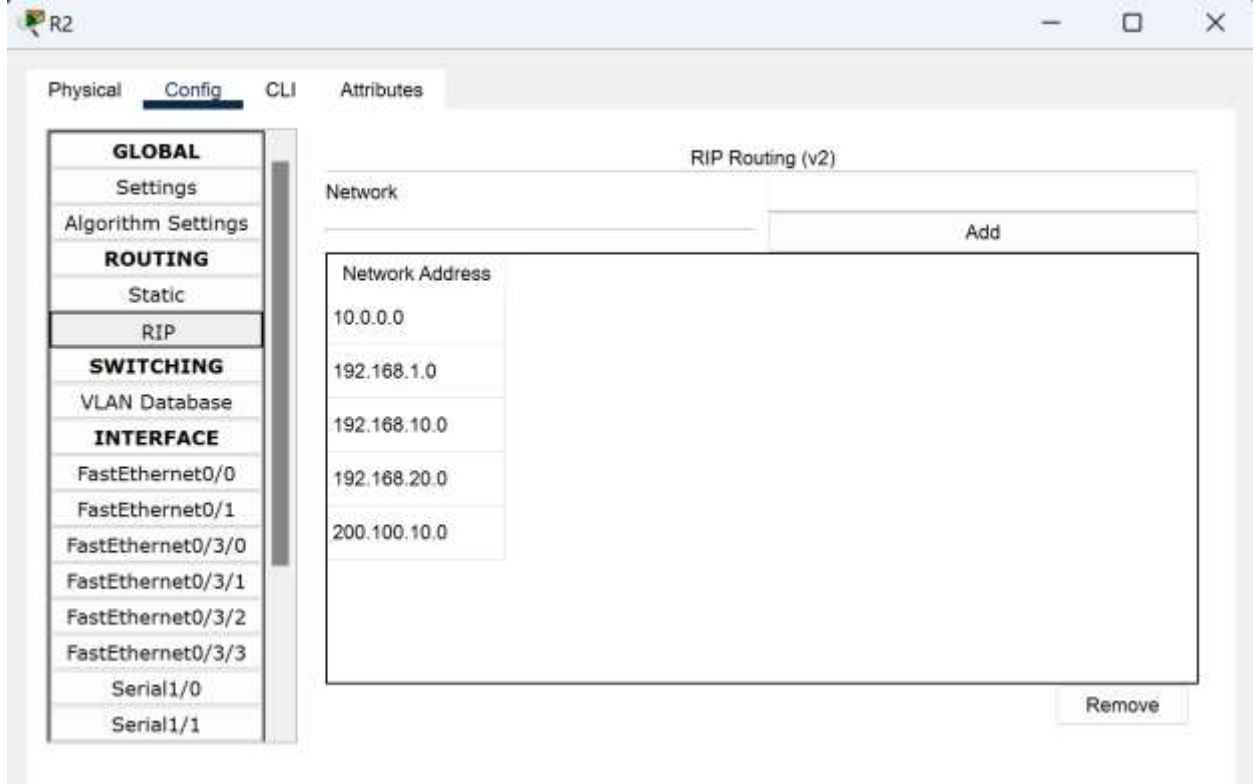
Equivalent IOS Commands

RIP Routing (v2)

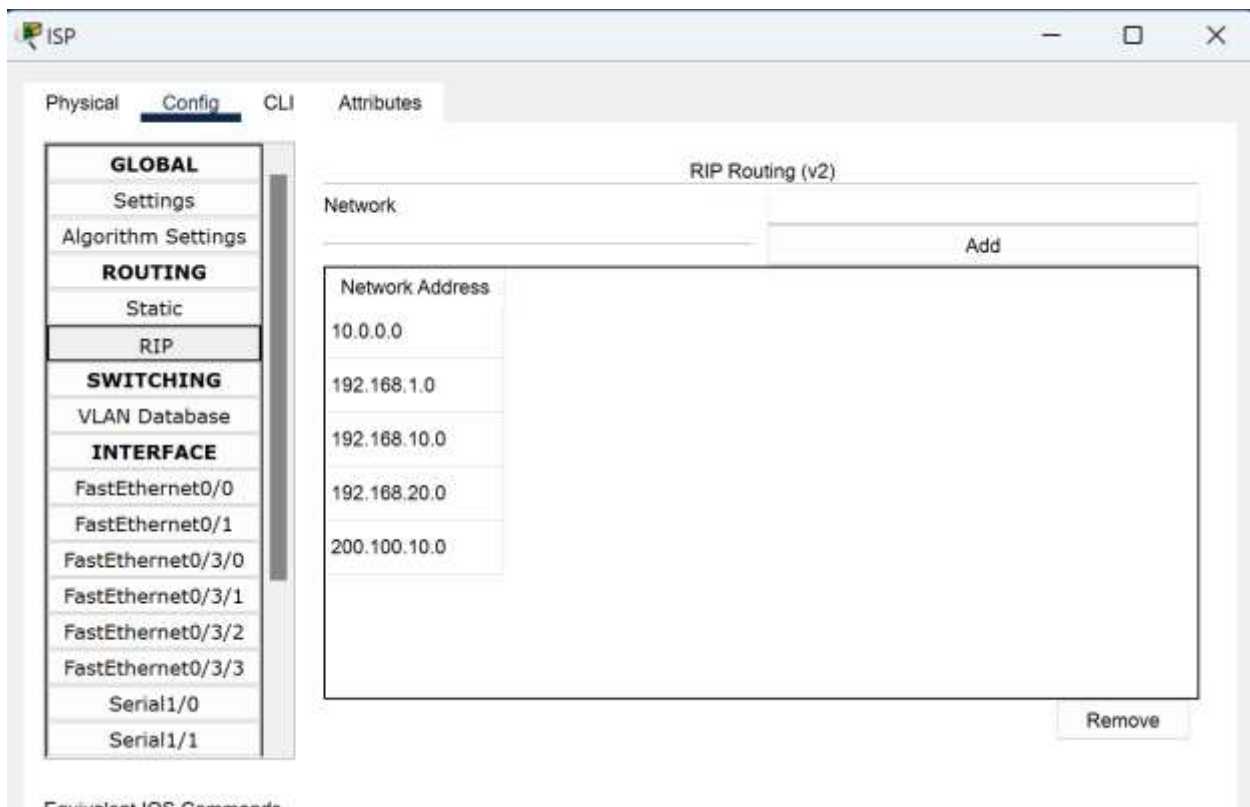
Network	Add
10.0.0.0	
192.168.1.0	
192.168.10.0	
192.168.20.0	
200.100.10.0	

Remove

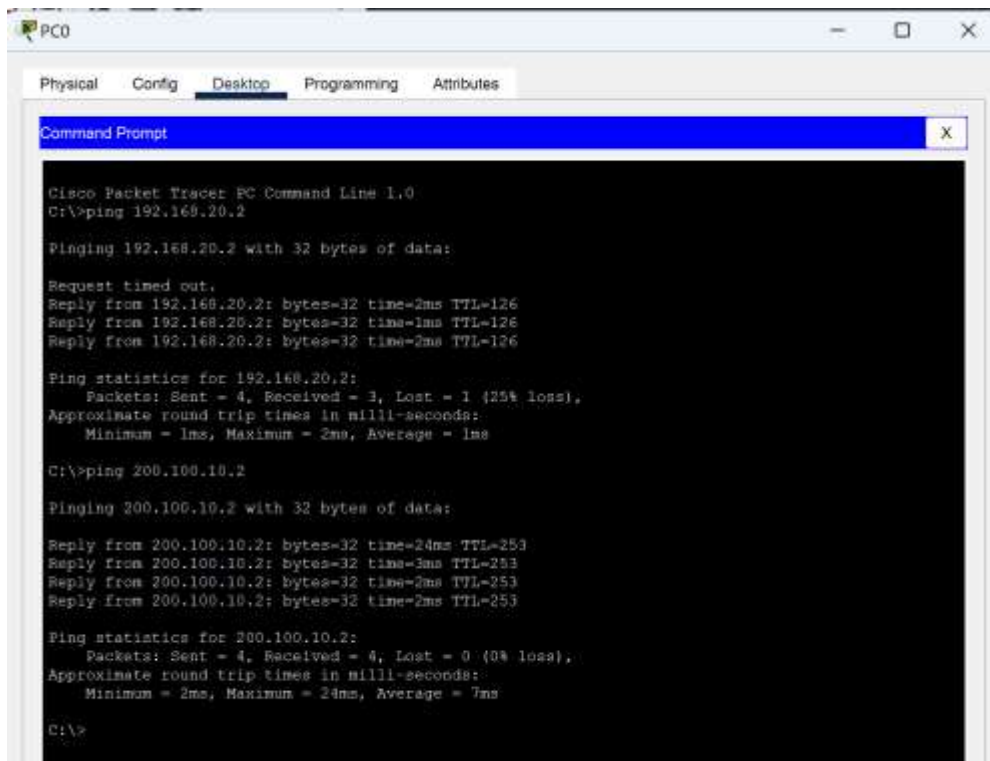
Konfigurasi Router R2

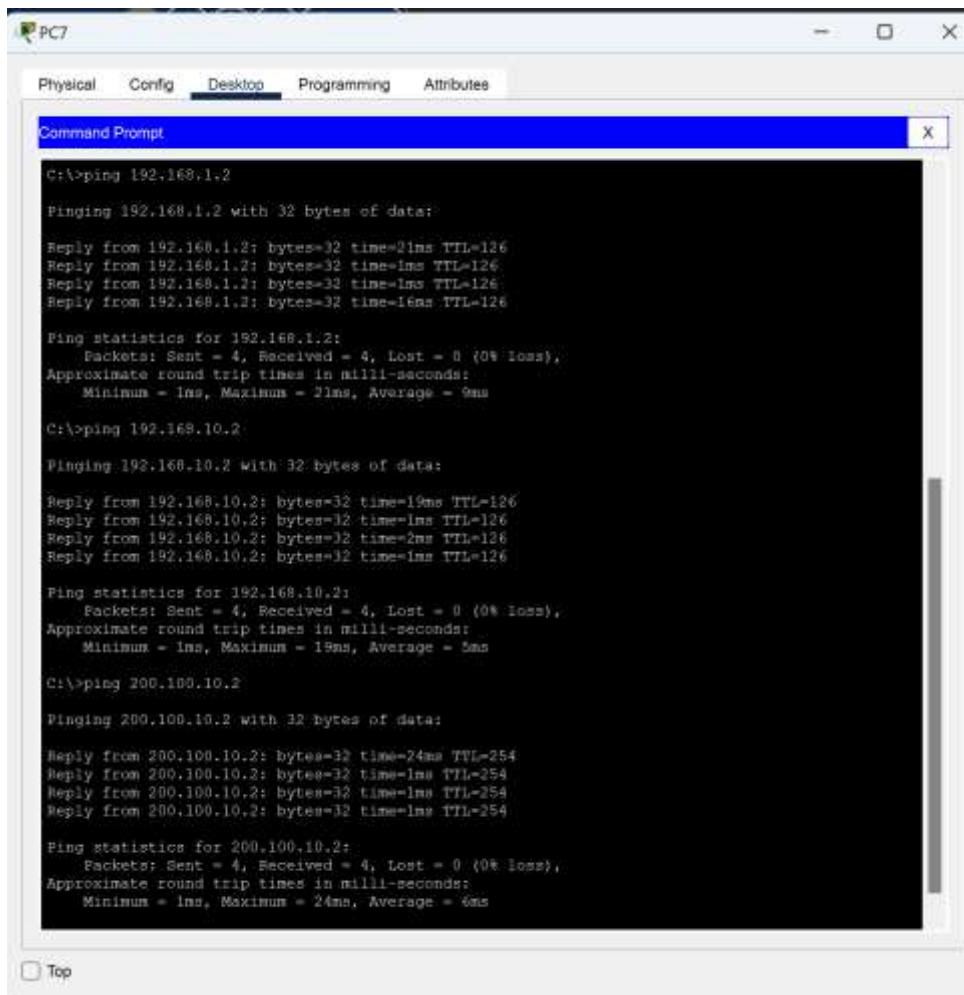


Konfigurasi ISP



Hasil Ping antar device





The screenshot shows a virtual machine window titled 'PC7' with tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The Command Prompt shows the execution of three ping commands and their results.

```
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=21ms TTL=126
Reply from 192.168.1.2: bytes=32 time=1ms TTL=126
Reply from 192.168.1.2: bytes=32 time=1ms TTL=126
Reply from 192.168.1.2: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 21ms, Average = 9ms

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=19ms TTL=126
Reply from 192.168.10.2: bytes=32 time=1ms TTL=126
Reply from 192.168.10.2: bytes=32 time=2ms TTL=126
Reply from 192.168.10.2: bytes=32 time=1ms 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 = 19ms, Average = 5ms

C:\>ping 200.100.10.2

Pinging 200.100.10.2 with 32 bytes of data:

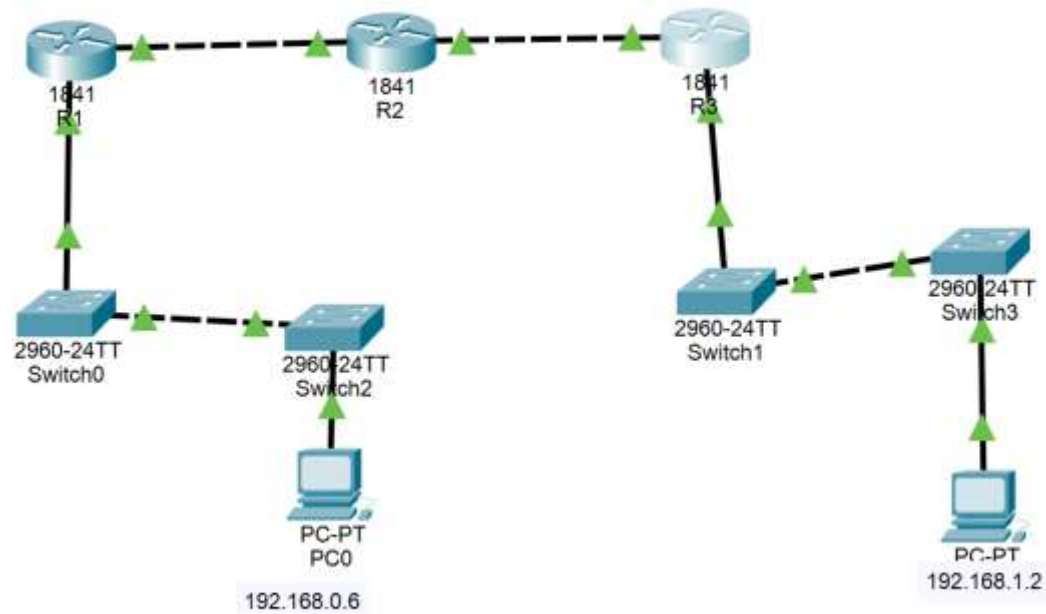
Reply from 200.100.10.2: bytes=32 time=24ms TTL=254
Reply from 200.100.10.2: bytes=32 time=1ms TTL=254
Reply from 200.100.10.2: bytes=32 time=1ms TTL=254
Reply from 200.100.10.2: bytes=32 time=1ms TTL=254

Ping statistics for 200.100.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 24ms, Average = 6ms
```

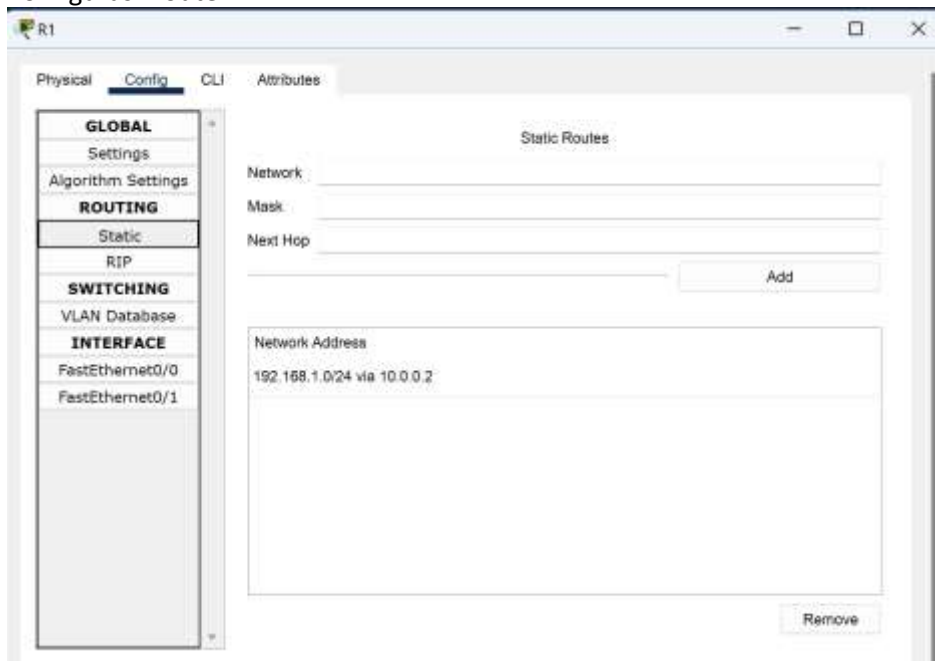
At the bottom left of the Command Prompt window, there is a 'Top' button.

Soal 3

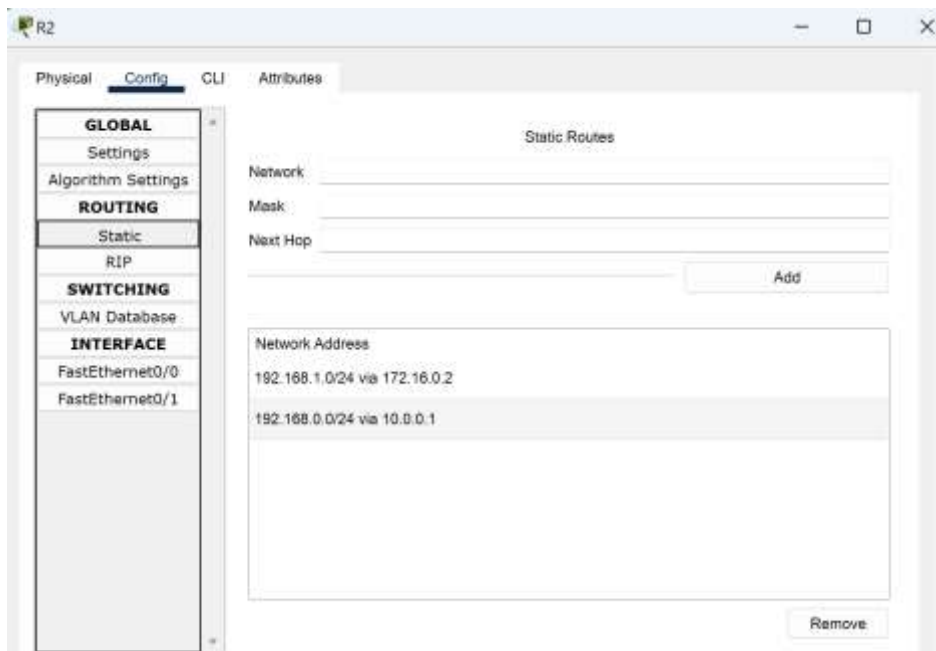
Permasalahan yang harus di selesaikan :
PC0 tidak bisa ping ke PC 1 !



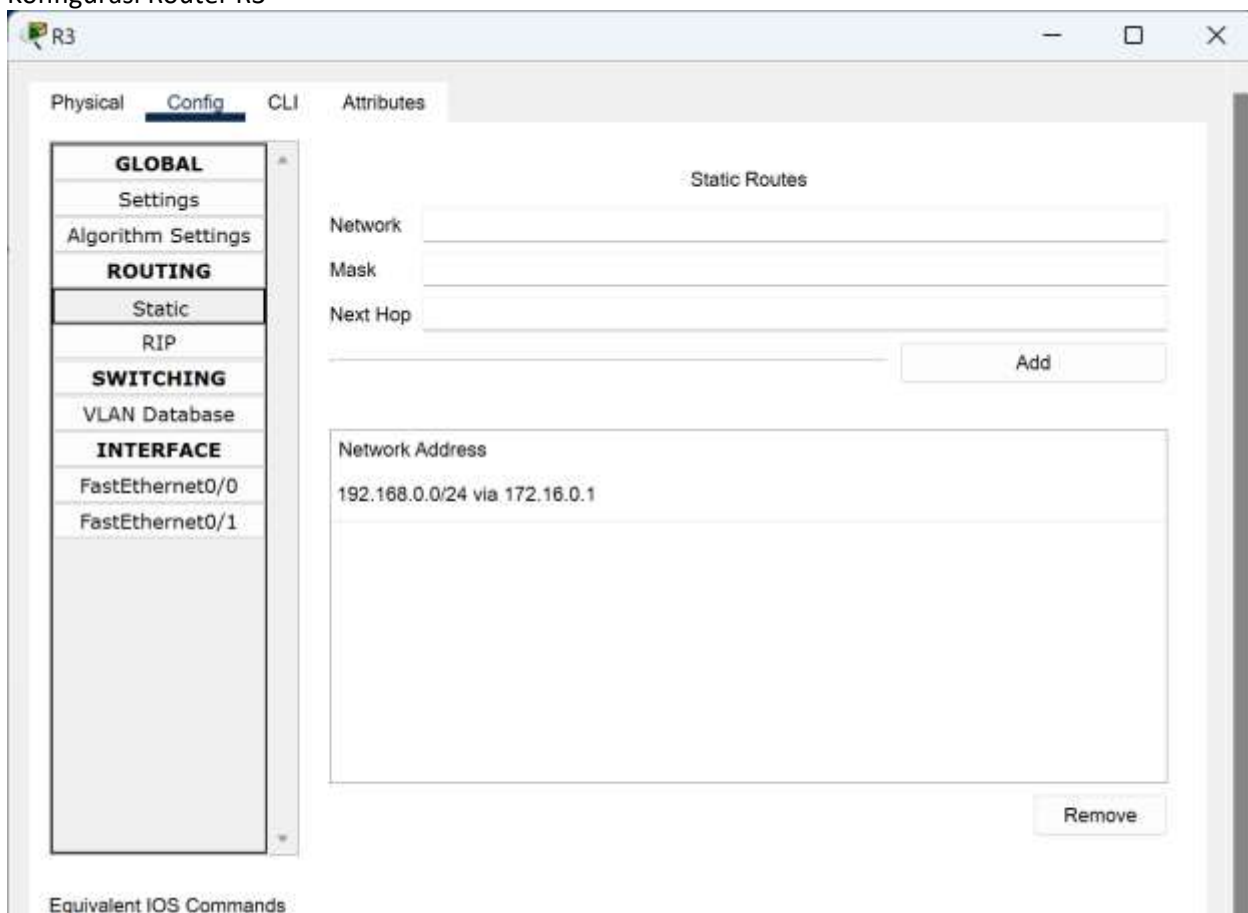
Konfigurasi Router R1



Konfigurasi Router R2



Konfigurasi Router R3



Ping dari PC0 ke PC1

```
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=22ms TTL=126
```

```
Reply from 192.168.20.2: bytes=32 time=14ms TTL=126
```

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

```
Reply from 192.168.20.2: bytes=32 time=3ms 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 = 1ms, Maximum = 22ms, Average = 10ms
```