

Nama : Zulfa Fajrul Falah

Nim : L200170149

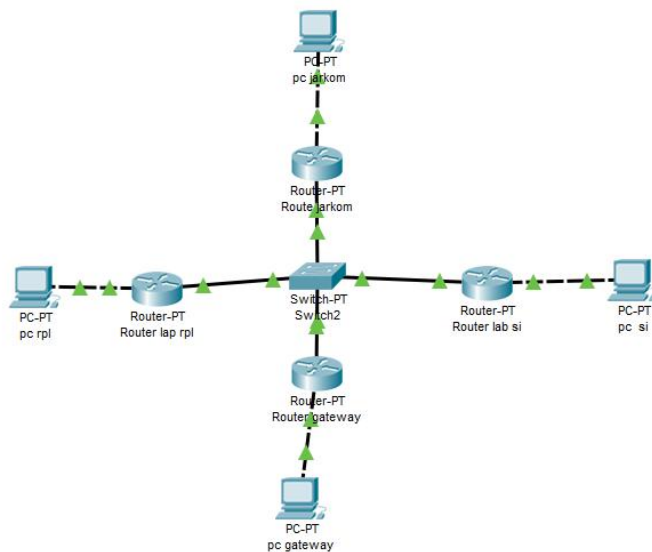
Kelas : D

## LAPORAN PRAKTIKUM JARINGAN KOMPUTER

### MODUL 11

#### Tuga 1 Routing Dimanis RIP

1. Buat topologi jaringan pada packet tracer



2. Konfigurasi ip pada setiap router dan pc

Tabel 10.1. Pengalamatan IP

No.	Nama Device	Interface	Alamat IP	Keterangan
1	Router Lab Jarkom	Ethernet 0	172.16.0.1/24	Ke PC Jarkom
		Ethernet 1	172.15.0.1/24	Ke 172.15.0.0
2	Router Lab RPL	Ethernet 0	172.18.0.1/24	Ke PC RPL
		Ethernet 1	172.15.0.3/24	Ke 172.15.0.0
3	Router Lab SI	Ethernet 0	172.17.0.1/24	Ke PC SI
		Ethernet 1	172.15.0.2/24	Ke 172.15.0.0
4	Router Gaeway	Ethernet 0	172.19.0.1/24	Ke pc admin
		Ethernet 1	172.15.0.4/24	Ke 172.15.0.0
5	PC Jarkom	Ethernet 0	172.16.0.2/24	Ke Router Jarkom
6	PC RPL	Ethernet 0	172.18.0.2/24	Ke PC RPL
7	PC SI	Ethernet 0	172.17.0.2/24	Ke router SI
8	PC Gateway	Ethernet 0	172.19.0.2/24	Ke 172.15.0.0

pc si

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.17.0.2

Subnet Mask 255.255.255.0

Default Gateway 172.17.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20B:BEFF:FECC:E929

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

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Router lab si

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

**FastEthernet0/0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.9768.12DC

IP Configuration

IP Address 172.15.0.2

Subnet Mask 255.255.255.0

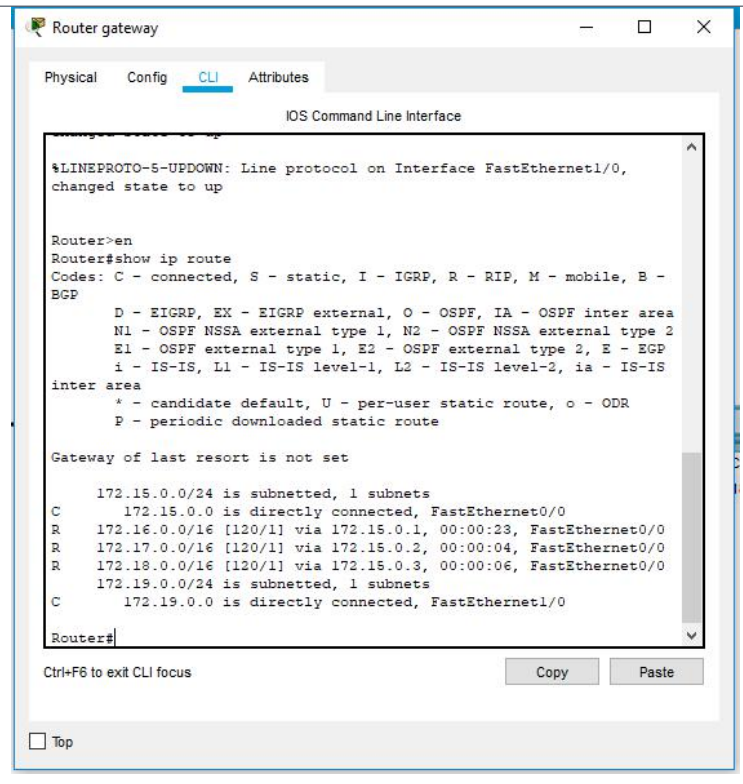
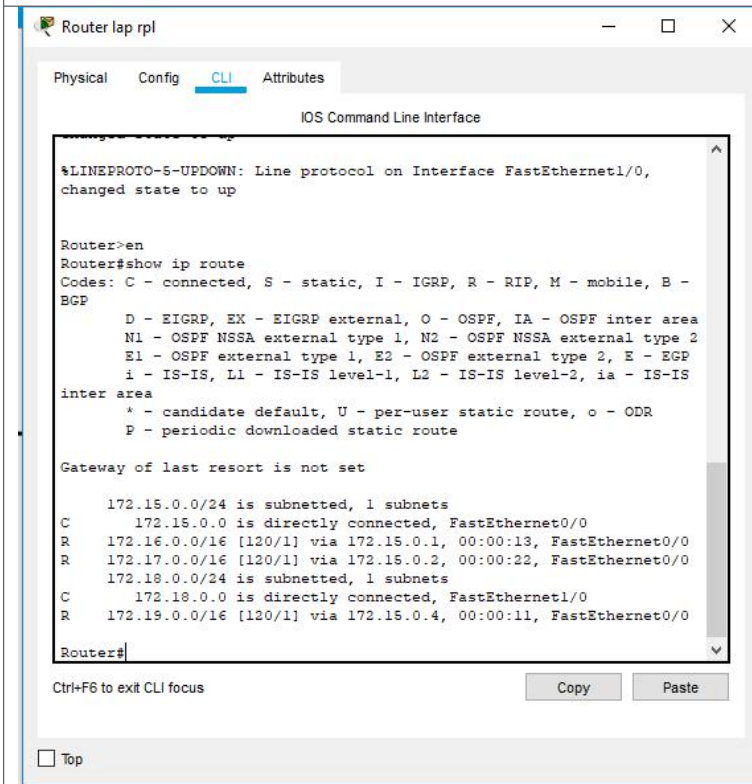
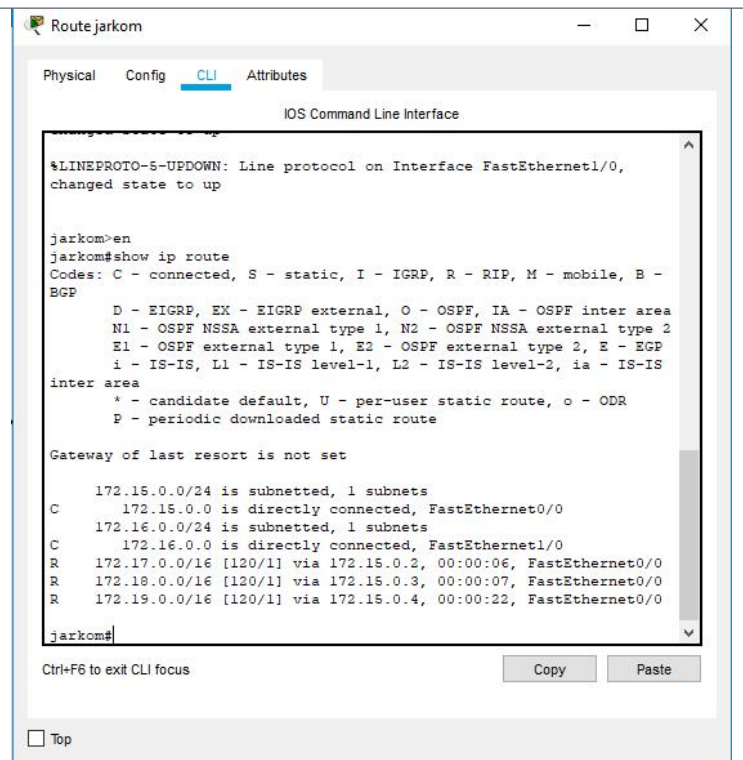
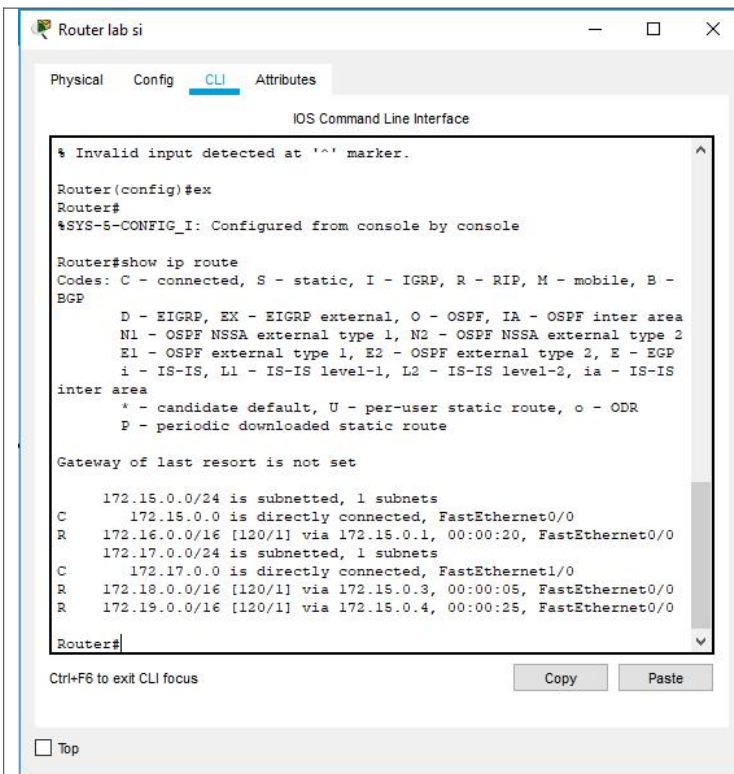
Tx Ring Limit 10

Equivalent IOS Commands

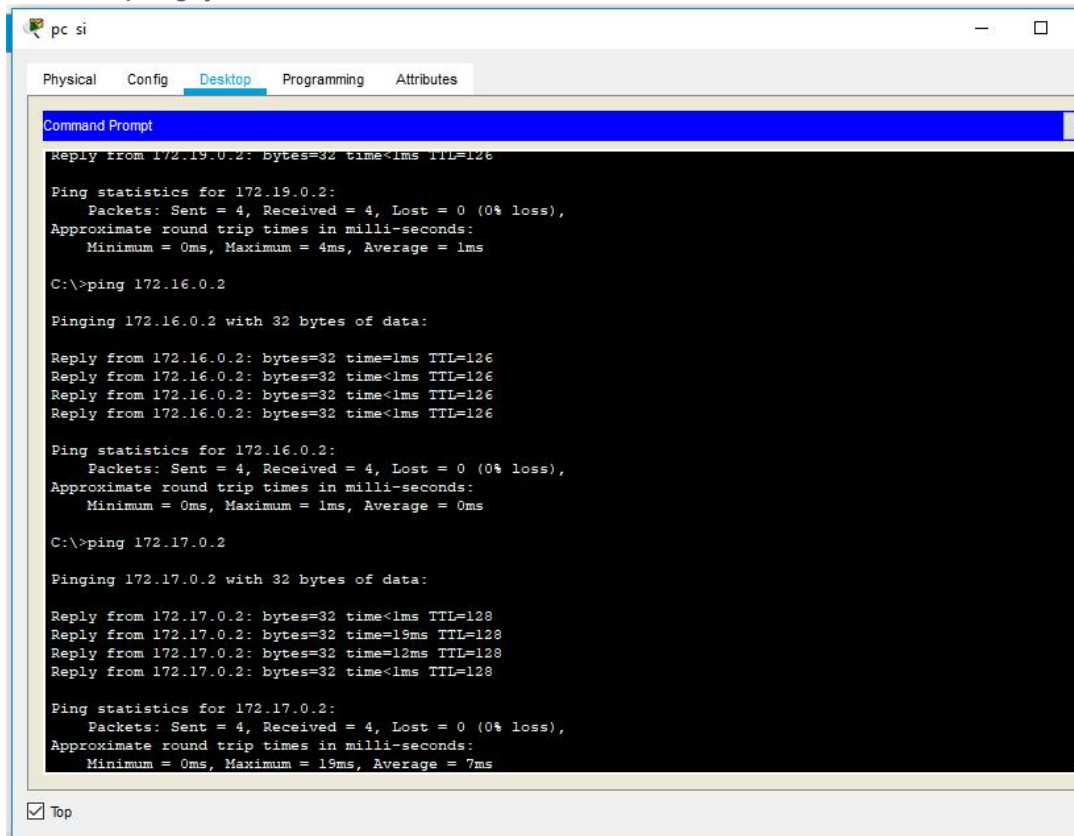
```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

Top

### 3. Lakukan routing RIP pada masing masing router



#### 4. Lakukan pengujian koneksi



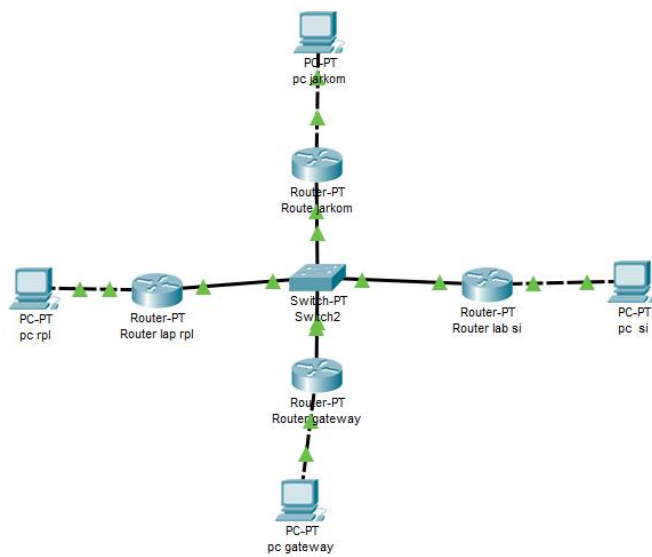
```
pc si
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 172.19.0.2: bytes=32 time<1ms TTL=126
Ping statistics for 172.19.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms
C:\>ping 172.16.0.2
Pinging 172.16.0.2 with 32 bytes of data:
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Ping statistics for 172.16.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 172.17.0.2
Pinging 172.17.0.2 with 32 bytes of data:
Reply from 172.17.0.2: bytes=32 time<1ms TTL=128
Reply from 172.17.0.2: bytes=32 time=19ms TTL=128
Reply from 172.17.0.2: bytes=32 time=12ms TTL=128
Reply from 172.17.0.2: bytes=32 time<1ms TTL=128
Ping statistics for 172.17.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 19ms, Average = 7ms
☒ Top
```

ket : Pada pengujian koneksi dengan layana ping, semua pc pada tiap-tiap network terhubung dengan baik.



## Tugas 1 Routing Static

1. Buat topologi jaringan pada packet tracer



2. Konfigurasi ip pada setiap router dan pc

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8	PC Gateway	Ethernet 0	172.19.0.2/24	Ke 172.15.0.0

pc si

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

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☐ DHCP ☒ Static

IP Address 172.17.0.2

Subnet Mask 255.255.255.0

Default Gateway 172.17.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20B:BEFF:FECC:E929

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

Top

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Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

**FastEthernet0/0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.9768.12DC

IP Configuration

IP Address 172.15.0.2

Subnet Mask 255.255.255.0

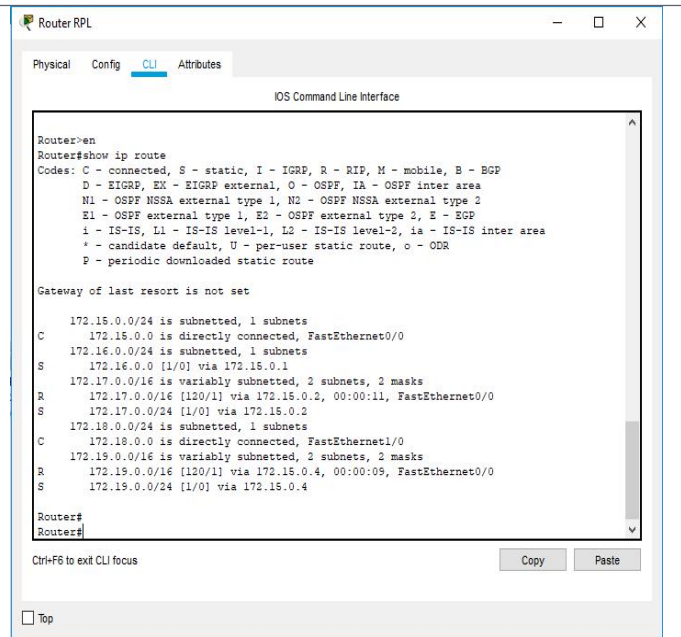
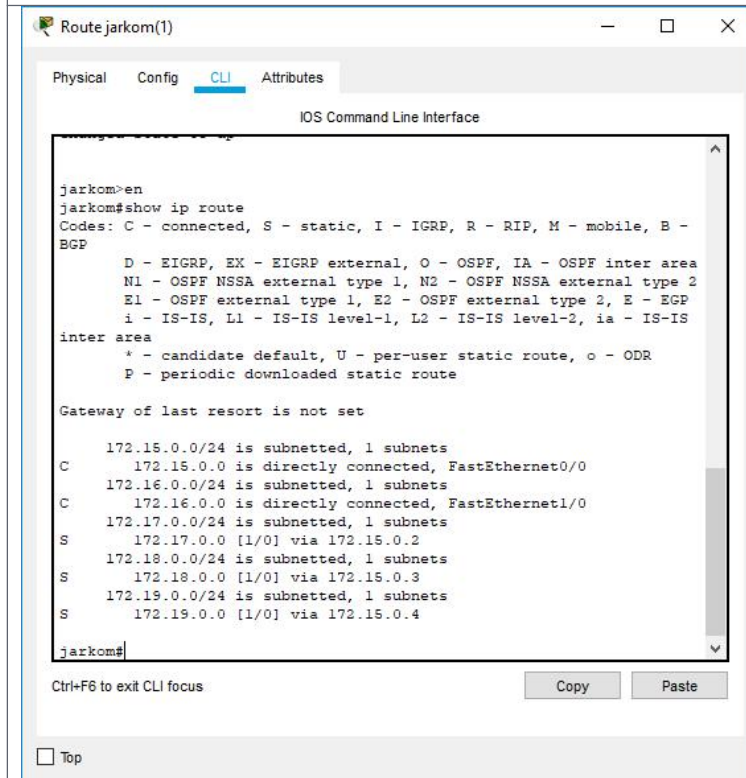
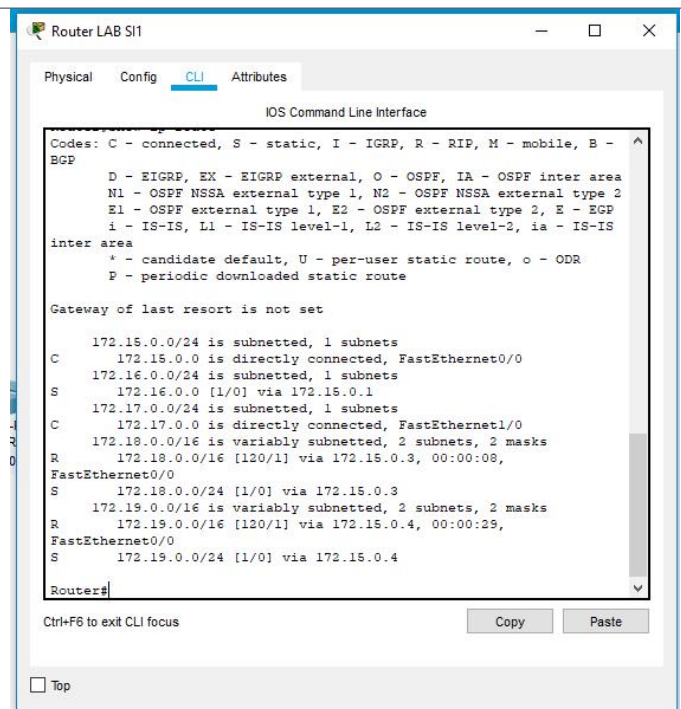
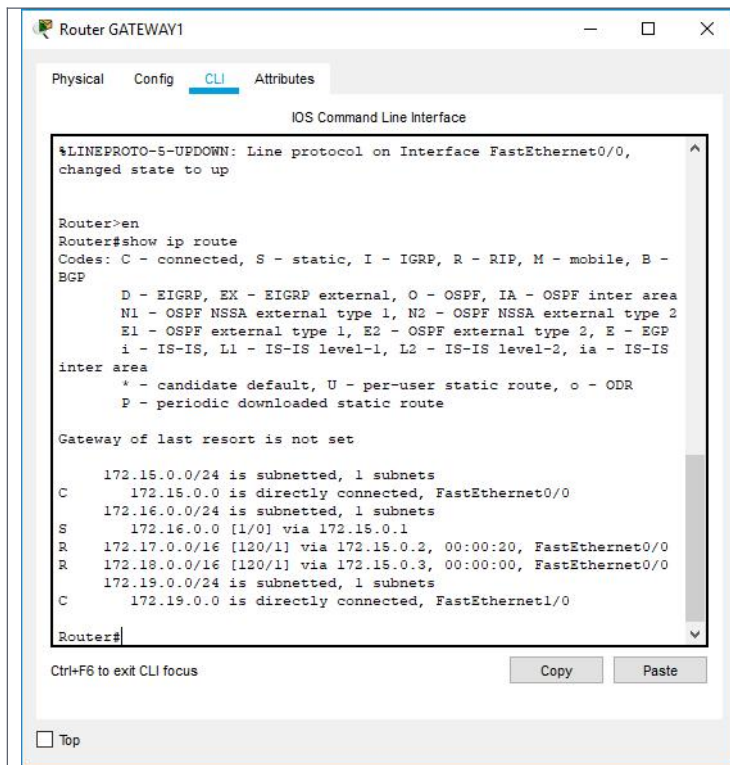
Tx Ring Limit 10

Equivalent IOS Commands

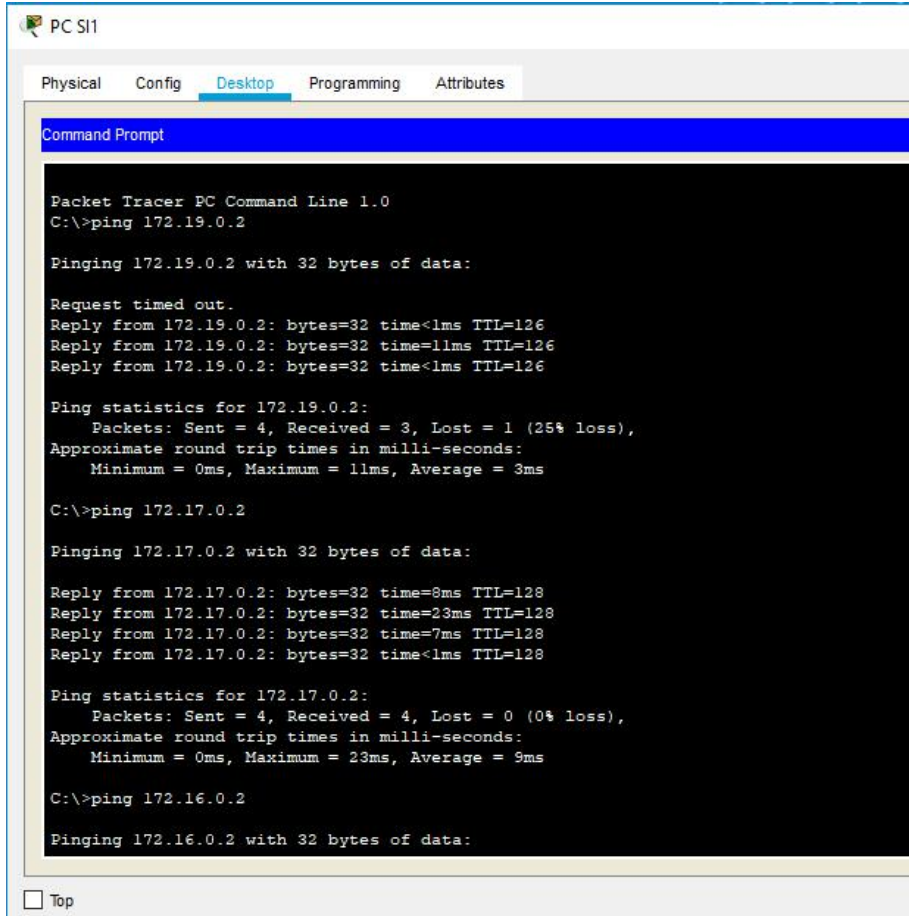
```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

Top

### 3. Lakukan routing static pada masing masing router



#### 4. Lakukan pengujian antar network



The screenshot shows the Packet Tracer PC Command Line interface for PC S11. The 'Desktop' tab is selected. The Command Prompt displays the results of three ping tests:

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.19.0.2

Pinging 172.19.0.2 with 32 bytes of data:

Request timed out.
Reply from 172.19.0.2: bytes=32 time<1ms TTL=126
Reply from 172.19.0.2: bytes=32 time=11ms TTL=126
Reply from 172.19.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.19.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 3ms

C:\>ping 172.17.0.2

Pinging 172.17.0.2 with 32 bytes of data:

Reply from 172.17.0.2: bytes=32 time=8ms TTL=128
Reply from 172.17.0.2: bytes=32 time=23ms TTL=128
Reply from 172.17.0.2: bytes=32 time=7ms TTL=128
Reply from 172.17.0.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.17.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 23ms, Average = 9ms

C:\>ping 172.16.0.2

Pinging 172.16.0.2 with 32 bytes of data:
```

At the bottom of the window, there is a checkbox labeled 'Top' which is currently unchecked.

ket : Pada pengujian koneksi dengan layana ping, semua pc pada tiap-tiap network terhubung dengan baik.