

Nama : Eko Budi Setiyawan

NIM : L200170015

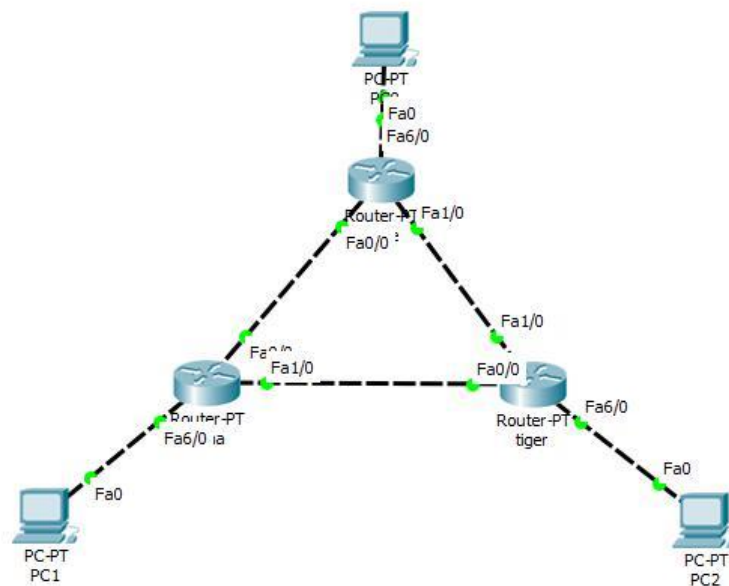
Kelas : A

## MODUL 7

### C. Kegiatan Praktikum

#### Kegiatan 1. Topologi 1 (Static Routing)

1. Menggunakan Packet Tracer buat topologi berikut ini dengan menggunakan Router generic



2. Konfigurasi masing-masing interface pada tiap router dengan alamat IP berikut :

- eagle

The screenshot shows the 'eagle' router configuration window. The 'Config' tab is active, and the 'INTERFACE' section is selected. The 'FastEthernet0/0' interface is highlighted in the left sidebar. The main configuration area for 'FastEthernet0/0' shows the following settings:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☒ Half Duplex ☐ Full Duplex ☒ Auto
- MAC Address: 000C.CF95.A23C
- IP Configuration:
  - IP Address: 172.21.10.10
  - Subnet Mask: 255.255.255.0
- Tx Ring Limit: 10

Below the configuration area, the 'Equivalent IOS Commands' section displays the following commands:

```
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
```

A 'Top' button is located at the bottom left of the window.

- puma

The screenshot shows the 'puma' router configuration window. The 'Config' tab is active, and the 'INTERFACE' section is selected. The 'FastEthernet0/0' interface is highlighted in the left sidebar. The main configuration area for 'FastEthernet0/0' shows the following settings:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 000D.BD69.ACDA
- IP Configuration:
  - IP Address: 172.21.20.20
  - Subnet Mask: 255.255.255.0
- Tx Ring Limit: 10

Below the configuration area, the 'Equivalent IOS Commands' section displays the following commands:

```
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

A 'Top' button is located at the bottom left of the window.

- 
- 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 0004.9AB2.D23B
- IP Configuration
- IP Address 172.21.30.30
- 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

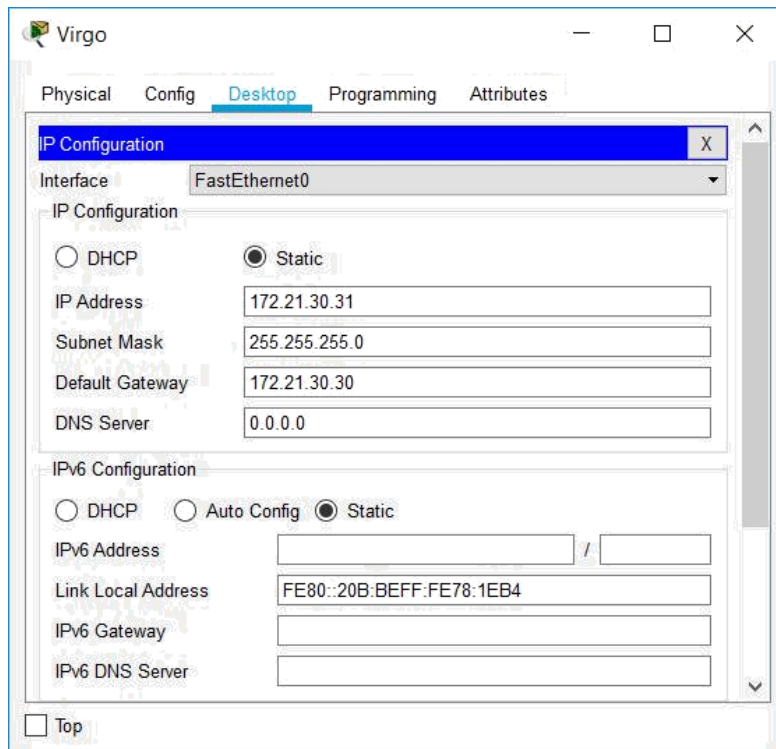
3. konfigurasi masing-masing PC dengan nama dan alamat IP berikut :

The screenshot shows the configuration window for a PC named 'Leo'. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IP Address is set to 172.21.10.11, Subnet Mask to 255.255.255.0, Default Gateway to 172.21.10.10, and DNS Server to 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected. The IPv6 Address field is empty, the Link Local Address is FE80::201:C9FF:FE12:9166, and the IPv6 Gateway and DNS Server fields are empty. A 'Top' button is at the bottom left.

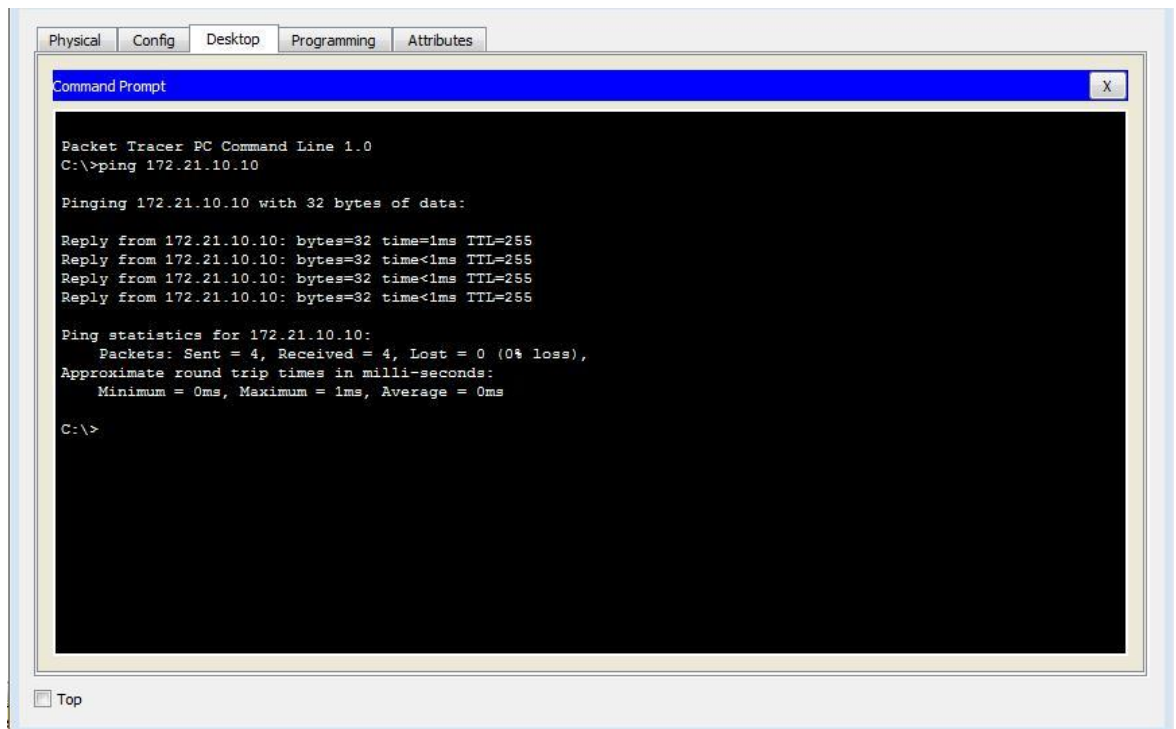
| Field                                   | Value                    |
|-----------------------------------------|--------------------------|
| Interface                               | FastEthernet0            |
| IP Configuration                        |                          |
| <input type="radio"/> DHCP              |                          |
| <input checked="" type="radio"/> Static |                          |
| IP Address                              | 172.21.10.11             |
| Subnet Mask                             | 255.255.255.0            |
| Default Gateway                         | 172.21.10.10             |
| DNS Server                              | 0.0.0.0                  |
| IPv6 Configuration                      |                          |
| <input type="radio"/> DHCP              |                          |
| <input type="radio"/> Auto Config       |                          |
| <input checked="" type="radio"/> Static |                          |
| IPv6 Address                            |                          |
| Link Local Address                      | FE80::201:C9FF:FE12:9166 |
| IPv6 Gateway                            |                          |
| IPv6 DNS Server                         |                          |

The screenshot shows the configuration window for a PC named 'Aries'. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IP Address is set to 172.21.20.21, Subnet Mask to 255.255.255.0, Default Gateway to 172.21.20.20, and DNS Server to 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected. The IPv6 Address field is empty, the Link Local Address is FE80::2D0:97FF:FEB5:8AA4, and the IPv6 Gateway and DNS Server fields are empty. A 'Top' button is at the bottom left.

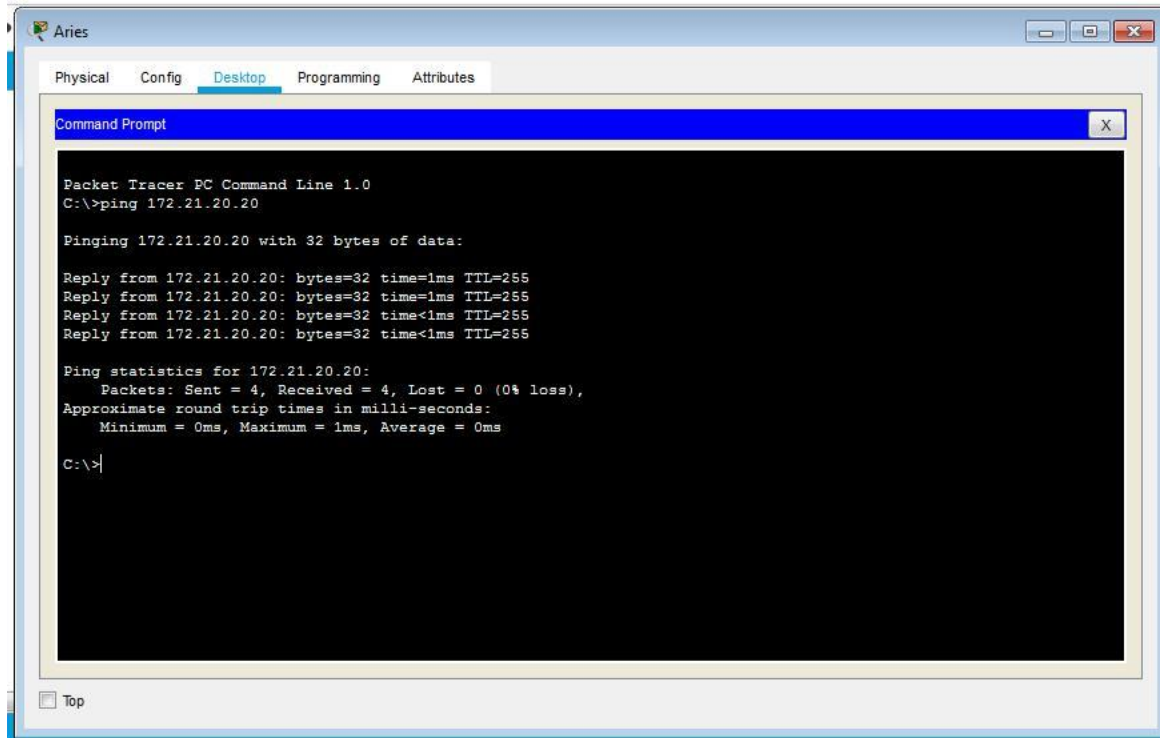
| Field                                   | Value                    |
|-----------------------------------------|--------------------------|
| Interface                               | FastEthernet0            |
| IP Configuration                        |                          |
| <input type="radio"/> DHCP              |                          |
| <input checked="" type="radio"/> Static |                          |
| IP Address                              | 172.21.20.21             |
| Subnet Mask                             | 255.255.255.0            |
| Default Gateway                         | 172.21.20.20             |
| DNS Server                              | 0.0.0.0                  |
| IPv6 Configuration                      |                          |
| <input type="radio"/> DHCP              |                          |
| <input type="radio"/> Auto Config       |                          |
| <input checked="" type="radio"/> Static |                          |
| IPv6 Address                            |                          |
| Link Local Address                      | FE80::2D0:97FF:FEB5:8AA4 |
| IPv6 Gateway                            |                          |
| IPv6 DNS Server                         |                          |



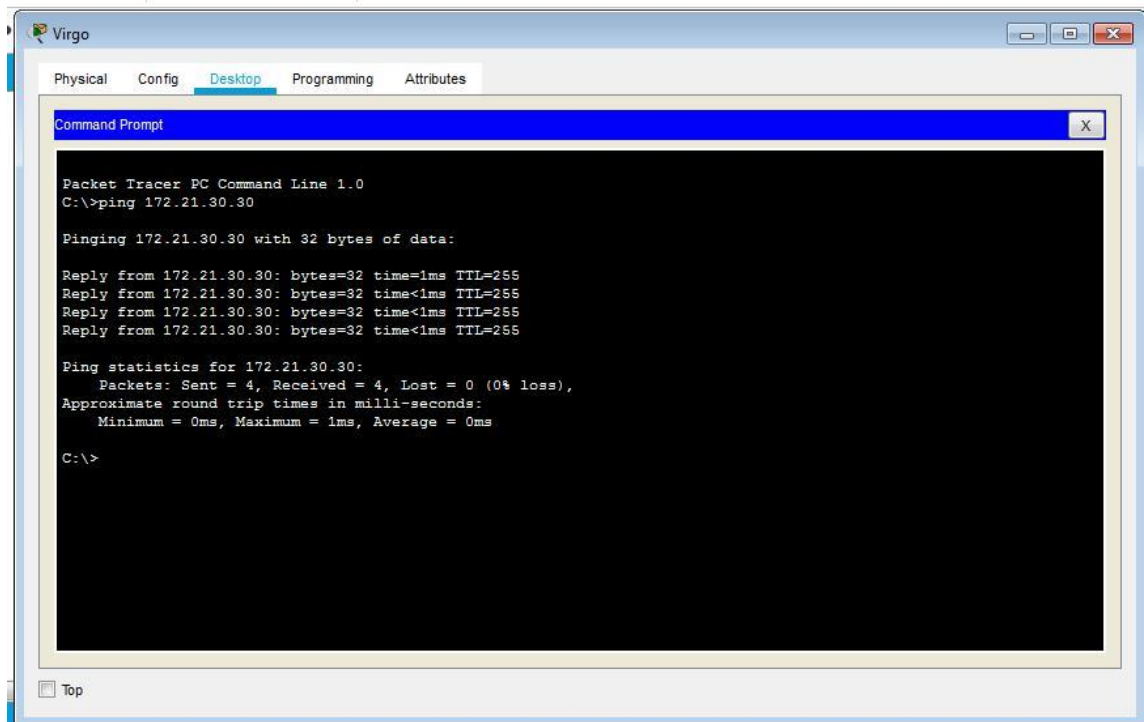
4. Pengujian :
- ping PC Leo ke router eagle



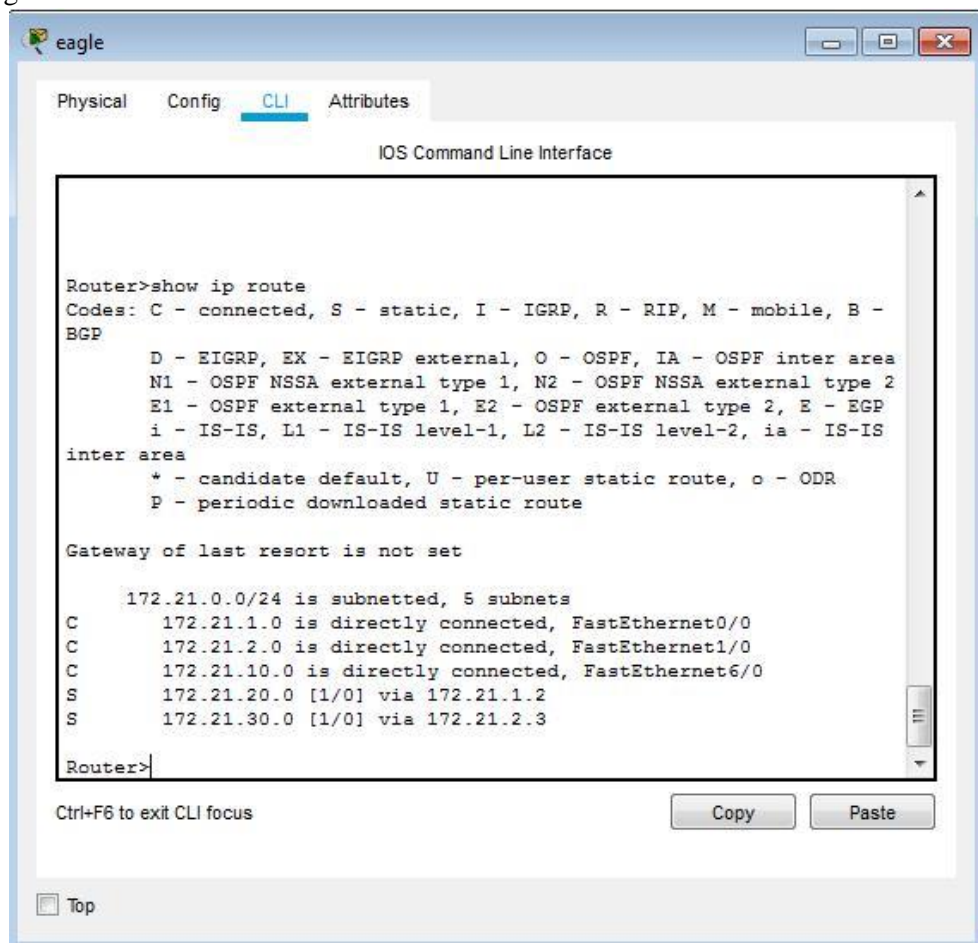
- ping PC Aries ke router puma



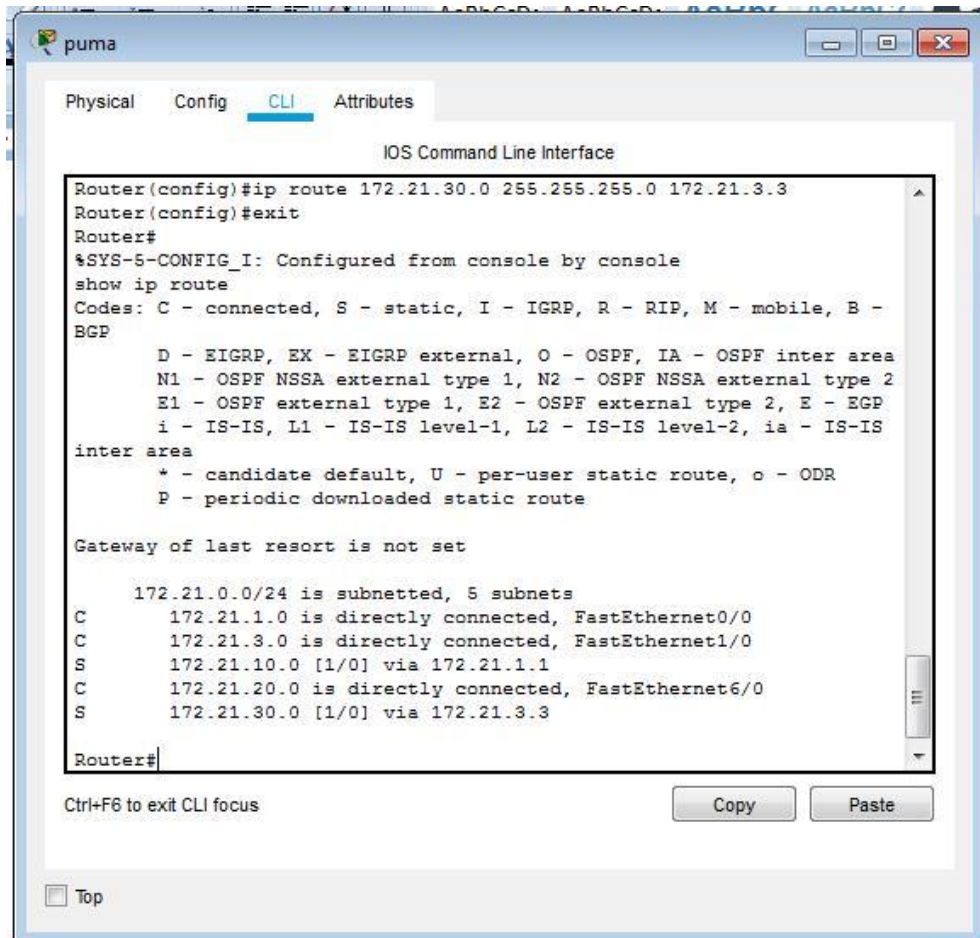
- ping PC Virgo ke router tiger



5. Pada mode user atau mode privileged lihat route table pada masing-masing router  
- Eagle

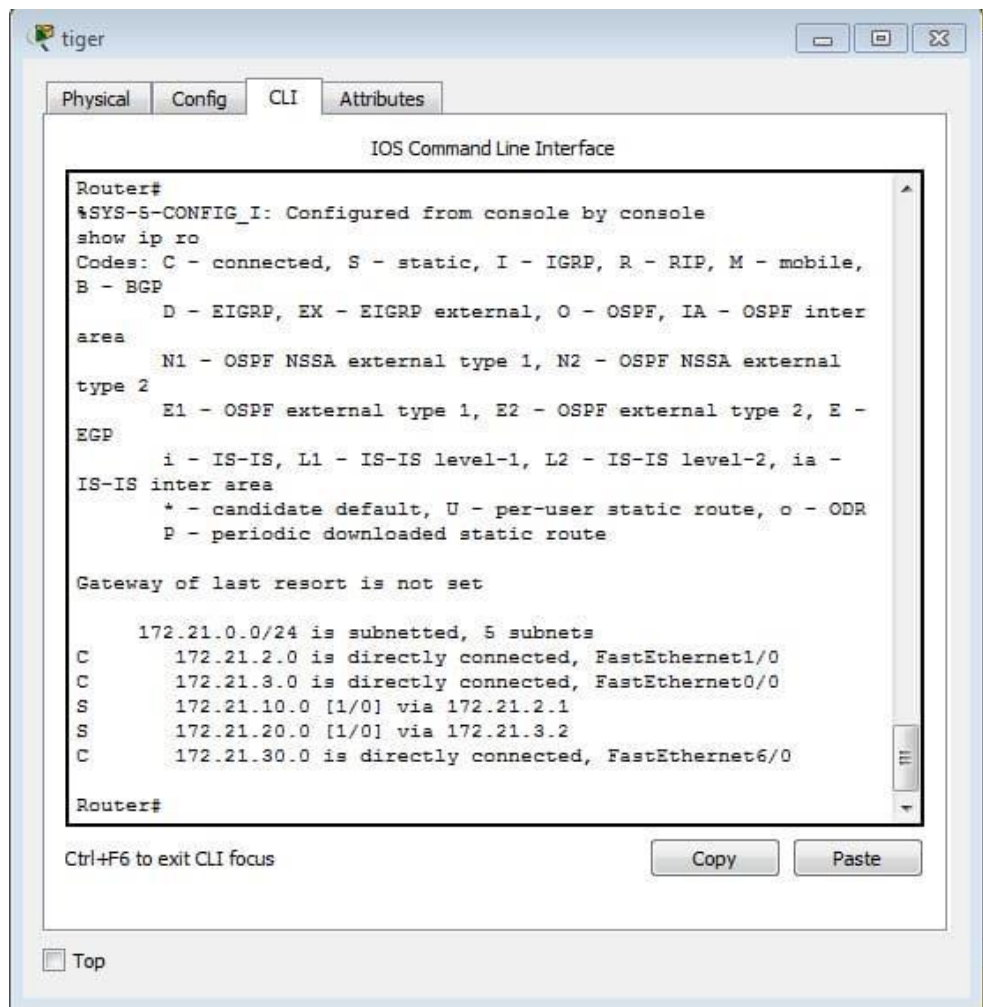


- Puma

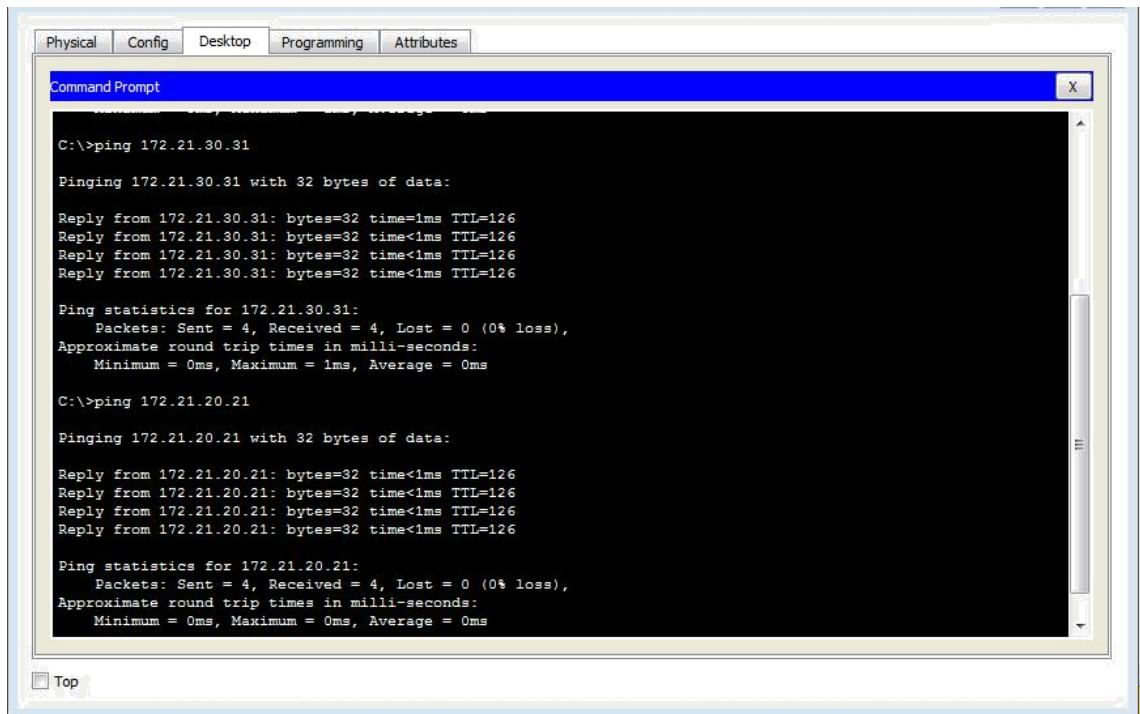




- Tiger



6. Ping antara PC leo ke puma dan tiger



```
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ping 172.21.30.31

Pinging 172.21.30.31 with 32 bytes of data:

Reply from 172.21.30.31: bytes=32 time=1ms TTL=126
Reply from 172.21.30.31: bytes=32 time<1ms TTL=126
Reply from 172.21.30.31: bytes=32 time<1ms TTL=126
Reply from 172.21.30.31: bytes=32 time<1ms TTL=126

Ping statistics for 172.21.30.31:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 172.21.20.21

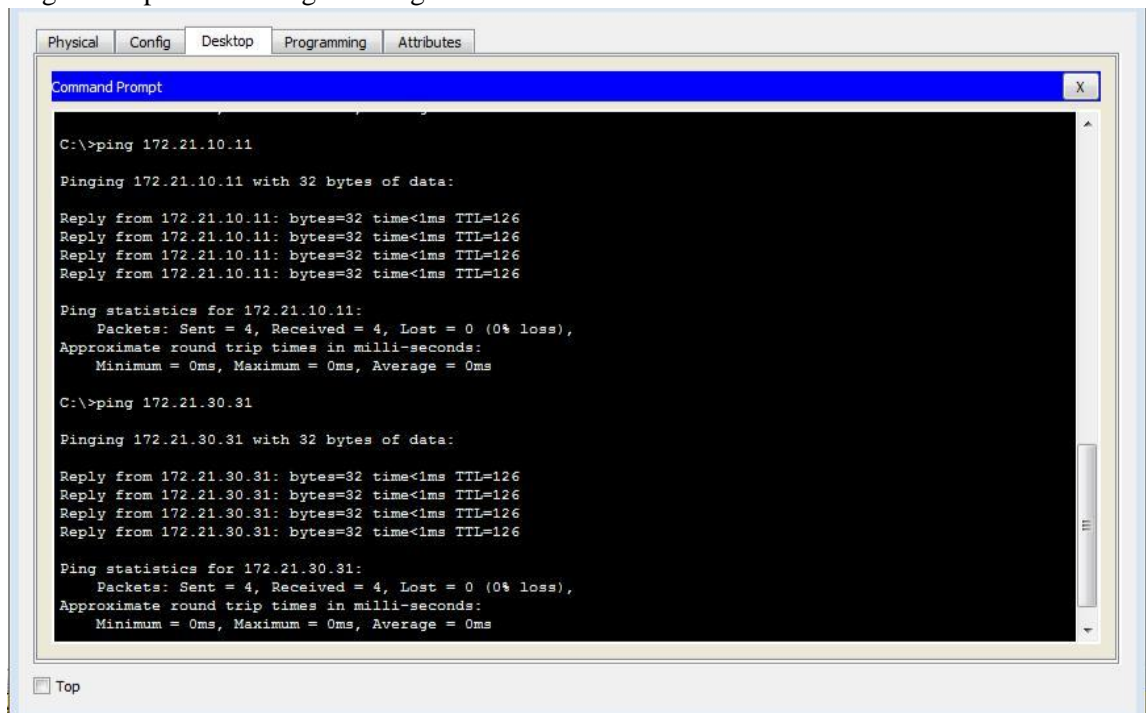
Pinging 172.21.20.21 with 32 bytes of data:

Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126

Ping statistics for 172.21.20.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

Top
```

Ping antara pc aries ke eagle dan tiger



```
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ping 172.21.10.11

Pinging 172.21.10.11 with 32 bytes of data:

Reply from 172.21.10.11: bytes=32 time<1ms TTL=126
Reply from 172.21.10.11: bytes=32 time<1ms TTL=126
Reply from 172.21.10.11: bytes=32 time<1ms TTL=126
Reply from 172.21.10.11: bytes=32 time<1ms TTL=126

Ping statistics for 172.21.10.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.21.30.31

Pinging 172.21.30.31 with 32 bytes of data:

Reply from 172.21.30.31: bytes=32 time<1ms TTL=126
Reply from 172.21.30.31: bytes=32 time<1ms TTL=126
Reply from 172.21.30.31: bytes=32 time<1ms TTL=126
Reply from 172.21.30.31: bytes=32 time<1ms TTL=126

Ping statistics for 172.21.30.31:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

Top
```

Ping antara pc virgo ke eagle dan puma

```
C:\>ping 172.21.10.11

Pinging 172.21.10.11 with 32 bytes of data:

Reply from 172.21.10.11: bytes=32 time=1ms TTL=126
Reply from 172.21.10.11: bytes=32 time<1ms TTL=126
Reply from 172.21.10.11: bytes=32 time=2ms TTL=126
Reply from 172.21.10.11: bytes=32 time<1ms TTL=126

Ping statistics for 172.21.10.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>
```

 Top

```
C:\>ping 172.21.20.21

Pinging 172.21.20.21 with 32 bytes of data:

Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126

Ping statistics for 172.21.20.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

 Top