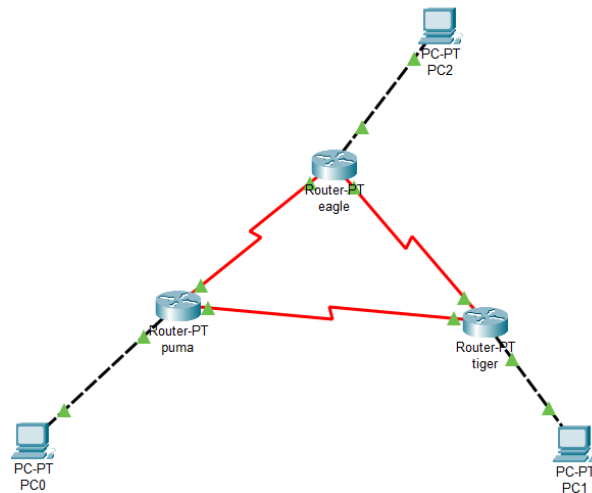


Nama : Ahmad Fikri Alqhozali

NIM : L200180166

STATIC ROUTE MODUL 7



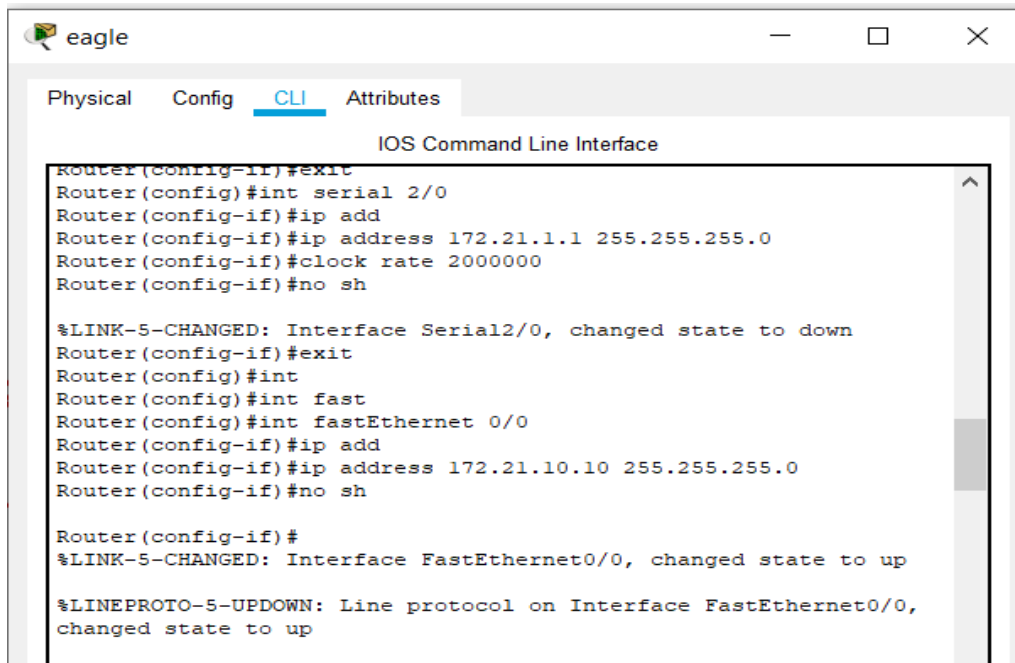
1. Set Serial eagle

```
Router eagle
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int serial 3/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.2.1 255.255.255.0
Router(config-if)#clock rate 2000000
Router(config-if)#^
% Invalid input detected at '^' marker.
Router(config-if)#clock rate 2000000
This command applies only to DCE interfaces
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0,
changed state to up

Router(config-if)#exit
Router(config)#int serial 2/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.1.1 255.255.255.0
Router(config-if)#clock rate 2000000
Router(config-if)#no sh
```

2. Set fa 0/0 eagle



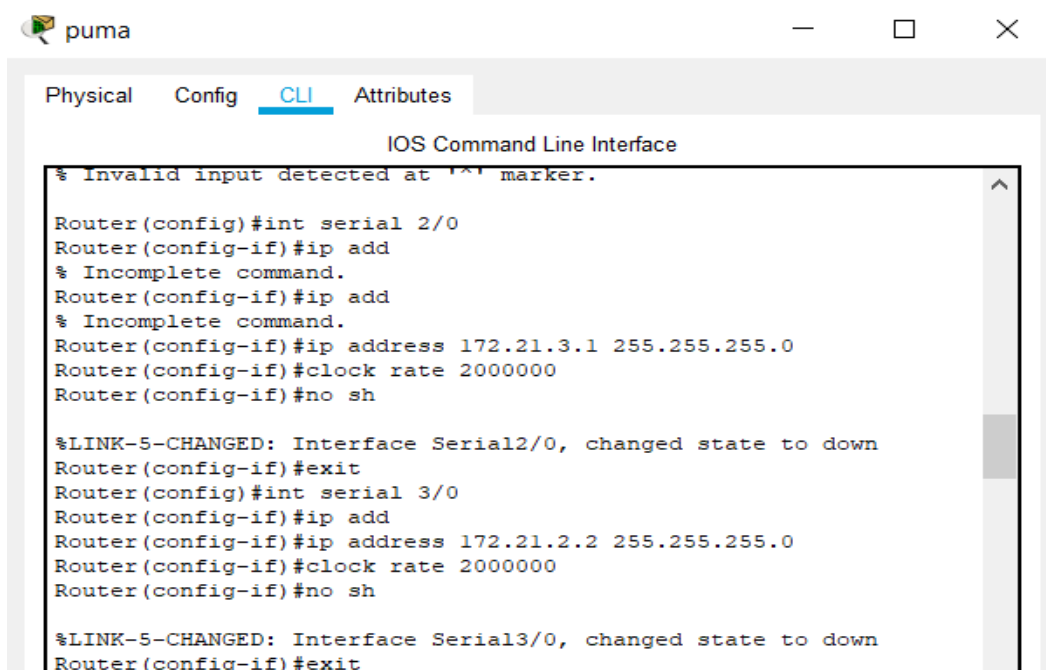
```
Router(config-if)#exit
Router(config)#int serial 2/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.1.1 255.255.255.0
Router(config-if)#clock rate 2000000
Router(config-if)#no sh

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#exit
Router(config)#int
Router(config)#int fast
Router(config)#int fastEthernet 0/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.10.10 255.255.255.0
Router(config-if)#no sh

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
```

3. Set serial puma



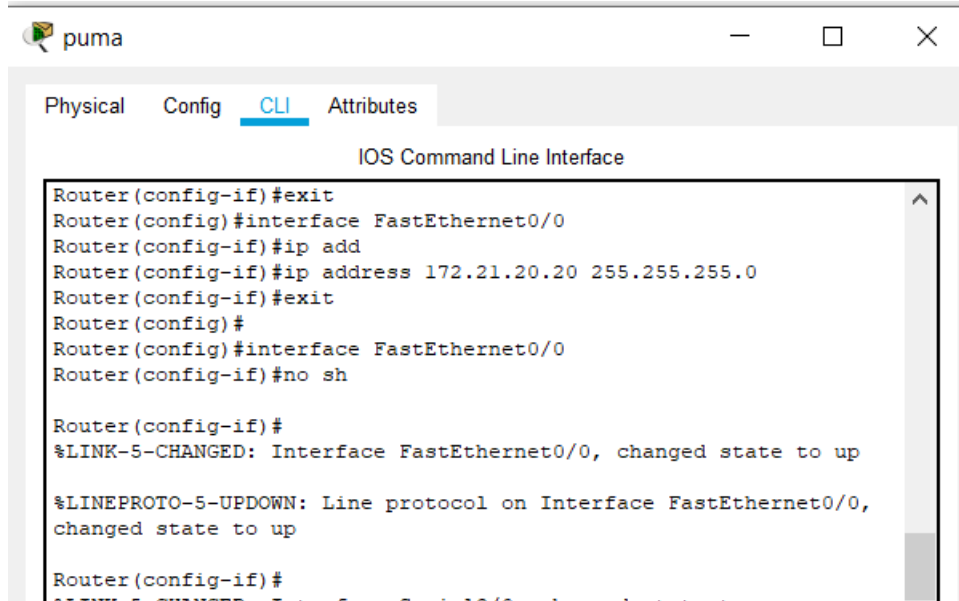
```
% Invalid input detected at '^' marker.

Router(config)#int serial 2/0
Router(config-if)#ip add
% Incomplete command.
Router(config-if)#ip add
% Incomplete command.
Router(config-if)#ip address 172.21.3.1 255.255.255.0
Router(config-if)#clock rate 2000000
Router(config-if)#no sh

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#exit
Router(config)#int serial 3/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.2.2 255.255.255.0
Router(config-if)#clock rate 2000000
Router(config-if)#no sh

%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#exit
```

4. Set fa 0/0 puma



The screenshot shows a window titled 'puma' with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the 'IOS Command Line Interface'. The terminal output shows the following commands and responses:

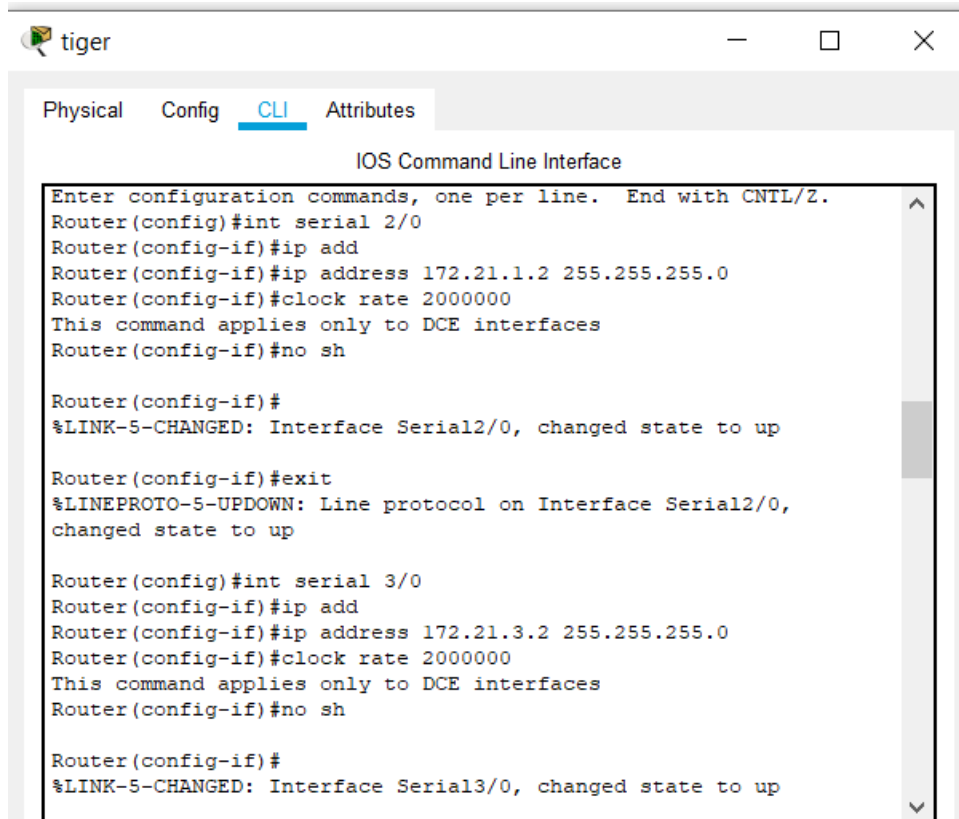
```
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#exit
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#no sh

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

Router(config-if)#
```

5. Set serial tiger



The screenshot shows a window titled 'tiger' with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the 'IOS Command Line Interface'. The terminal output shows the following commands and responses:

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int serial 2/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.1.2 255.255.255.0
Router(config-if)#clock rate 2000000
This command applies only to DCE interfaces
Router(config-if)#no sh

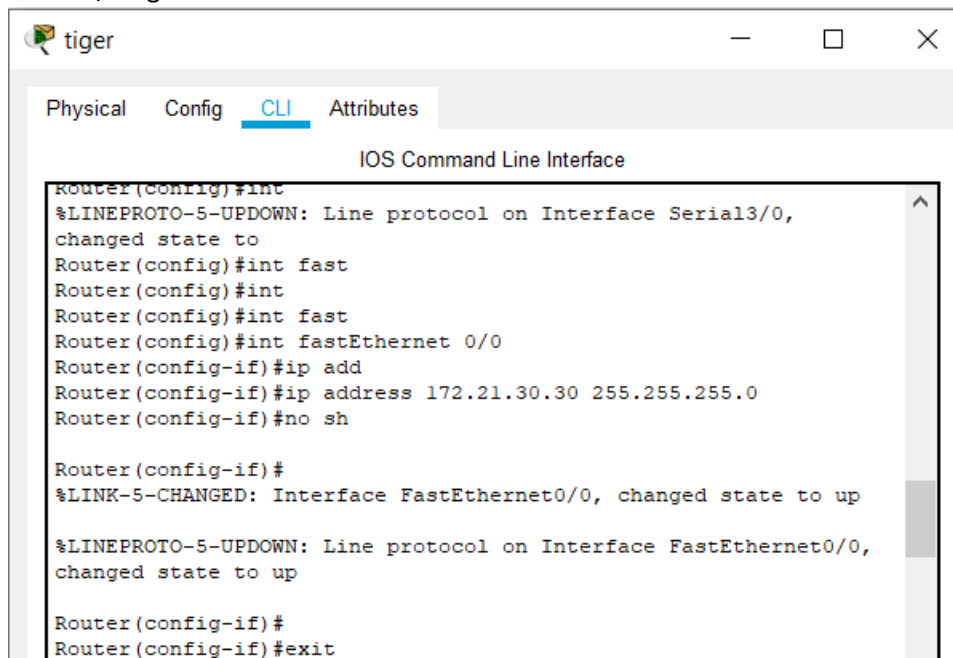
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#exit
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,
changed state to up

Router(config)#int serial 3/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.3.2 255.255.255.0
Router(config-if)#clock rate 2000000
This command applies only to DCE interfaces
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
```

6. Set fa 0/0 tiger



```
Router(config)#int
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0,
changed state to
Router(config)#int fast
Router(config)#int
Router(config)#int fast
Router(config)#int fastEthernet 0/0
Router(config-if)#ip add
Router(config-if)#ip address 172.21.30.30 255.255.255.0
Router(config-if)#no sh

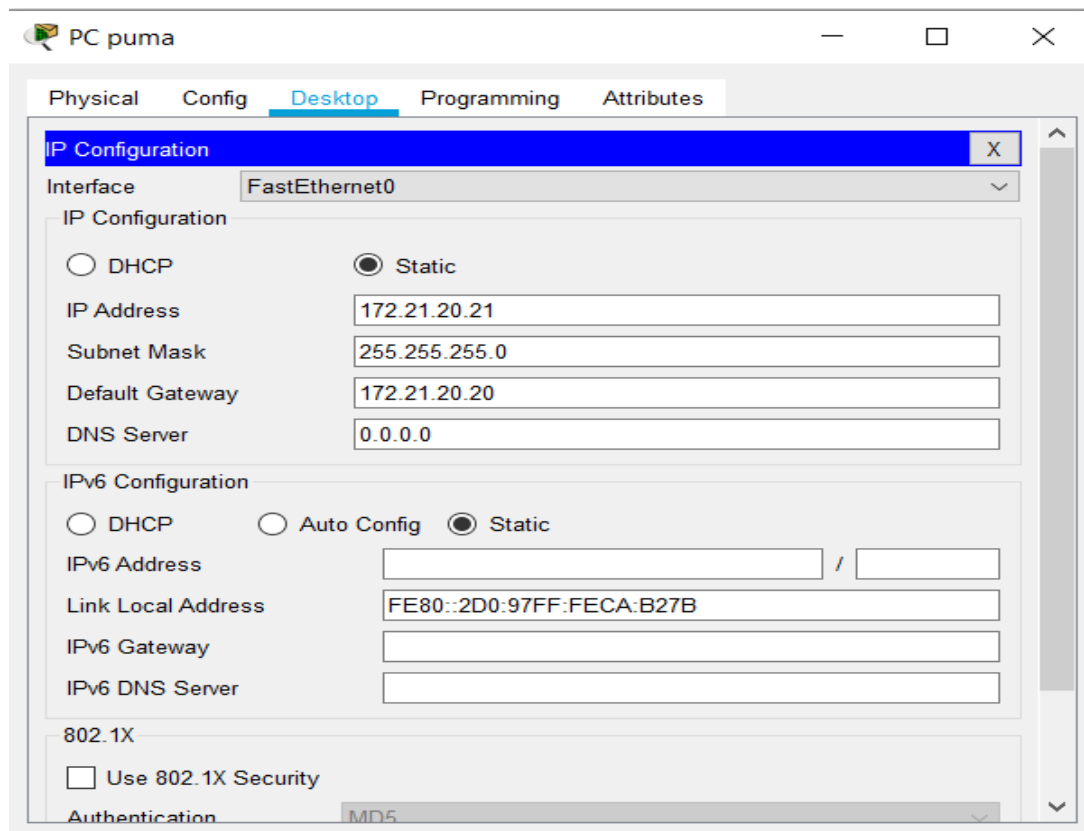
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

Router(config-if)#
Router(config-if)#exit
```

Setelah mengkonfigurasi masing2 route jalan nya lalu kita lakukan konfigurasi ip ke masing2 pc

1. IP PUMa



PC puma

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ 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

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:97FF:FECA:B27B

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

2. IP Tiger

The screenshot shows a configuration window titled "PC tiger" with a tabbed interface. The "Desktop" tab is selected. Under the "Config" tab, the "IP Configuration" section is expanded. The "Interface" dropdown is set to "FastEthernet0". In the "IP Configuration" section, the "Static" radio button is selected. The fields are filled with: IP Address: 172.21.30.31, Subnet Mask: 255.255.255.0, Default Gateway: 172.21.30.30, and DNS Server: 0.0.0.0. The "IPv6 Configuration" section has "Static" selected, with an empty IPv6 Address field, a Link Local Address of FE80::201:64FF:FE4A:CA0C, and empty fields for IPv6 Gateway and IPv6 DNS Server. The "802.1X" section has "Use 802.1X Security" unchecked and "Authentication" set to MD5.

PC tiger

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.30.31

Subnet Mask 255.255.255.0

Default Gateway 172.21.30.30

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:64FF:FE4A:CA0C

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

3. IP Eagle

PC eagle

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ 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

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::260:70FF:FEAE:EB66

IPv6 Gateway

IPv6 DNS Server

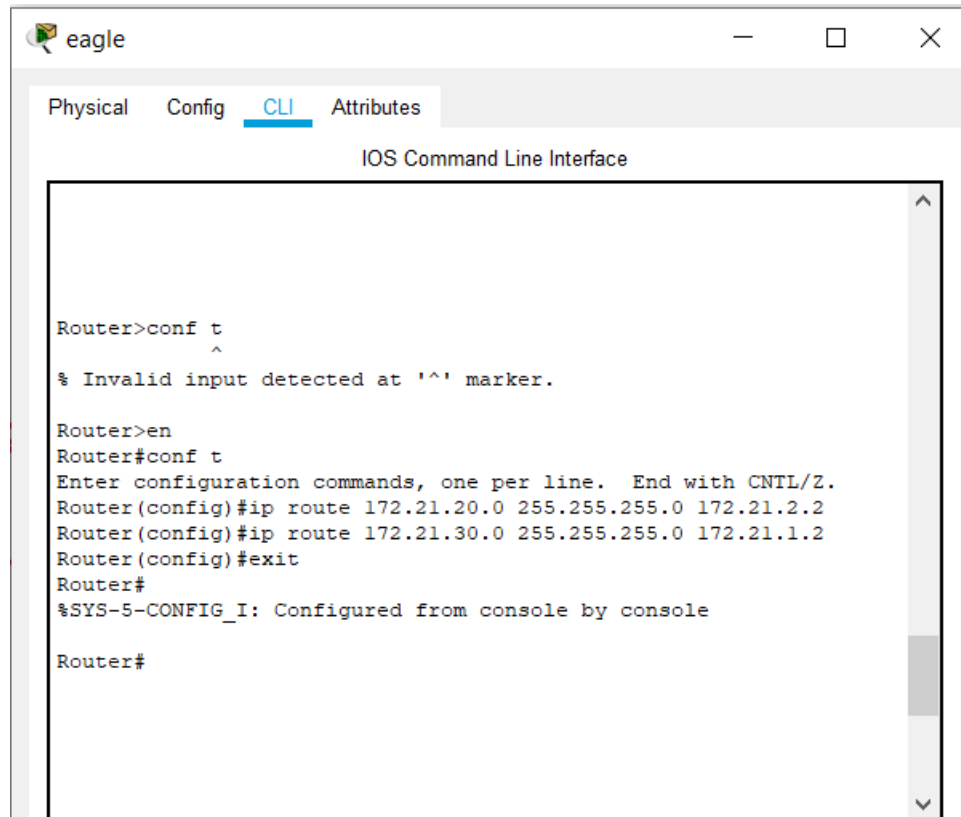
802.1X

☐ Use 802.1X Security

Authentication MD5

Lalu setelah itu kita lakukan route static di masing2 router nya

a. Router eagle



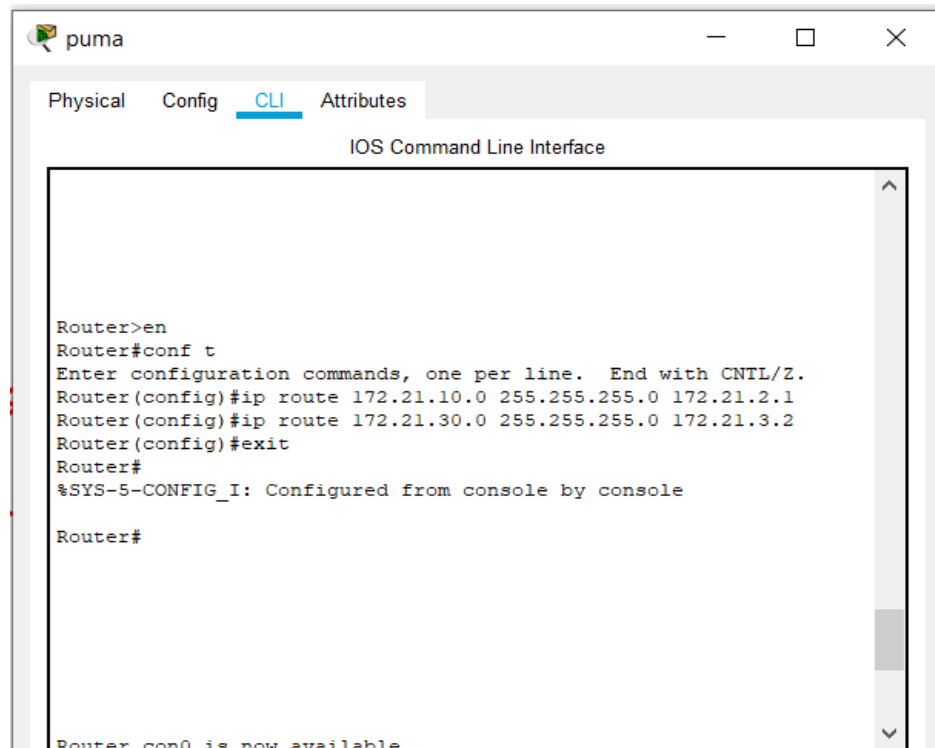
The screenshot shows a window titled 'eagle' with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the 'IOS Command Line Interface'. The terminal output shows the following sequence of commands and responses:

```
Router>conf t
      ^
% Invalid input detected at '^' marker.

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.2.2
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.1.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

b. Router puma



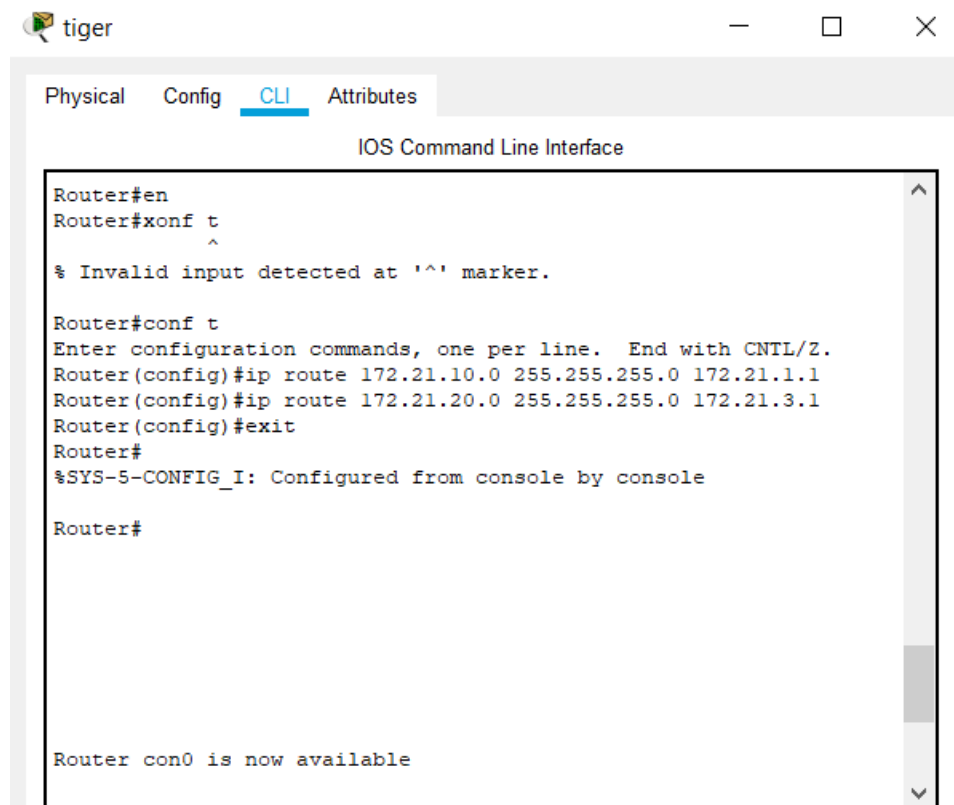
The screenshot shows a window titled 'puma' with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the 'IOS Command Line Interface'. The terminal output shows the following sequence of commands and responses:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.3.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

Router con0 is now available

c. Router tiger



```
tiger
Physical Config CLI Attributes
IOS Command Line Interface
Router#en
Router#xonf t
^
% Invalid input detected at '^' marker.
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#
Router con0 is now available
```


Setelah semua di konfigurasi sekarang waktu nya kita tester ping antar pc

1. Puma to eagle

```
C:\>ping 172.21.10.11

Pinging 172.21.10.11 with 32 bytes of data:

Request timed out.
Reply from 172.21.10.11: bytes=32 time=2ms TTL=126
Reply from 172.21.10.11: bytes=32 time=1ms TTL=126
Reply from 172.21.10.11: bytes=32 time=12ms TTL=126

Ping statistics for 172.21.10.11:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 12ms, Average = 5ms
```

2. Puma to tiger

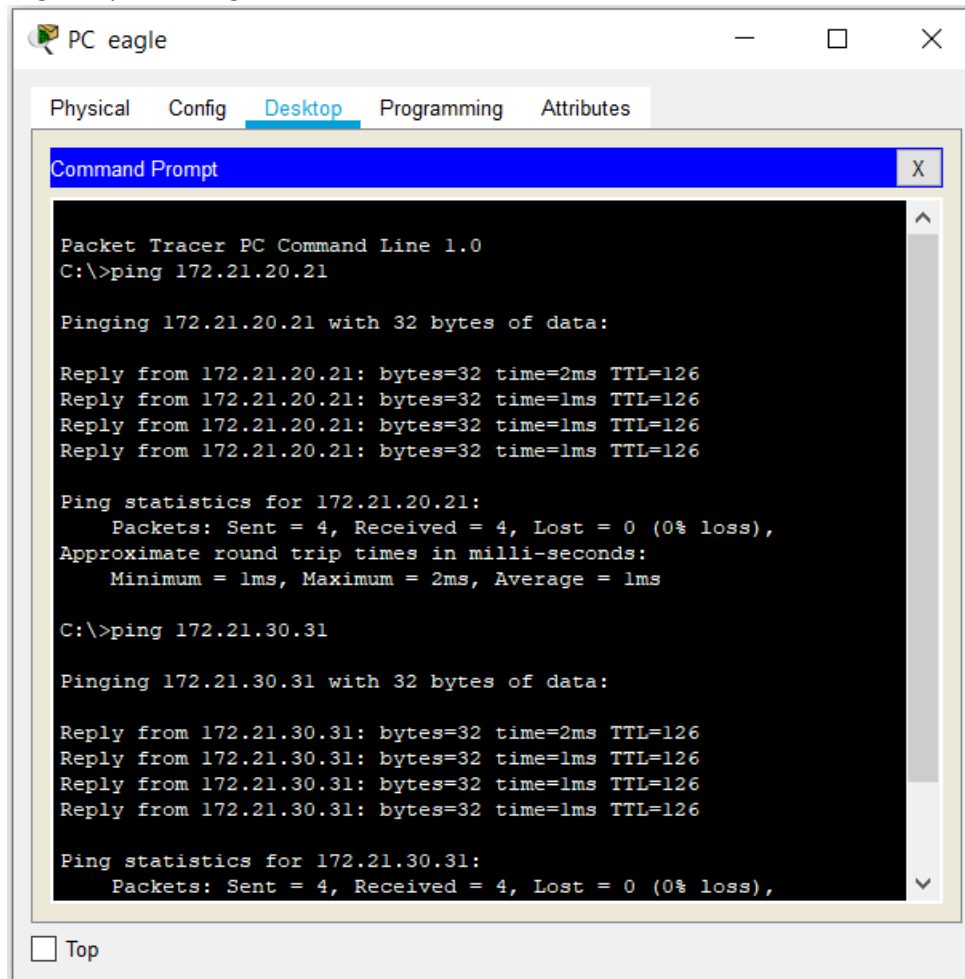
```
C:\>ping 172.21.30.31

Pinging 172.21.30.31 with 32 bytes of data:

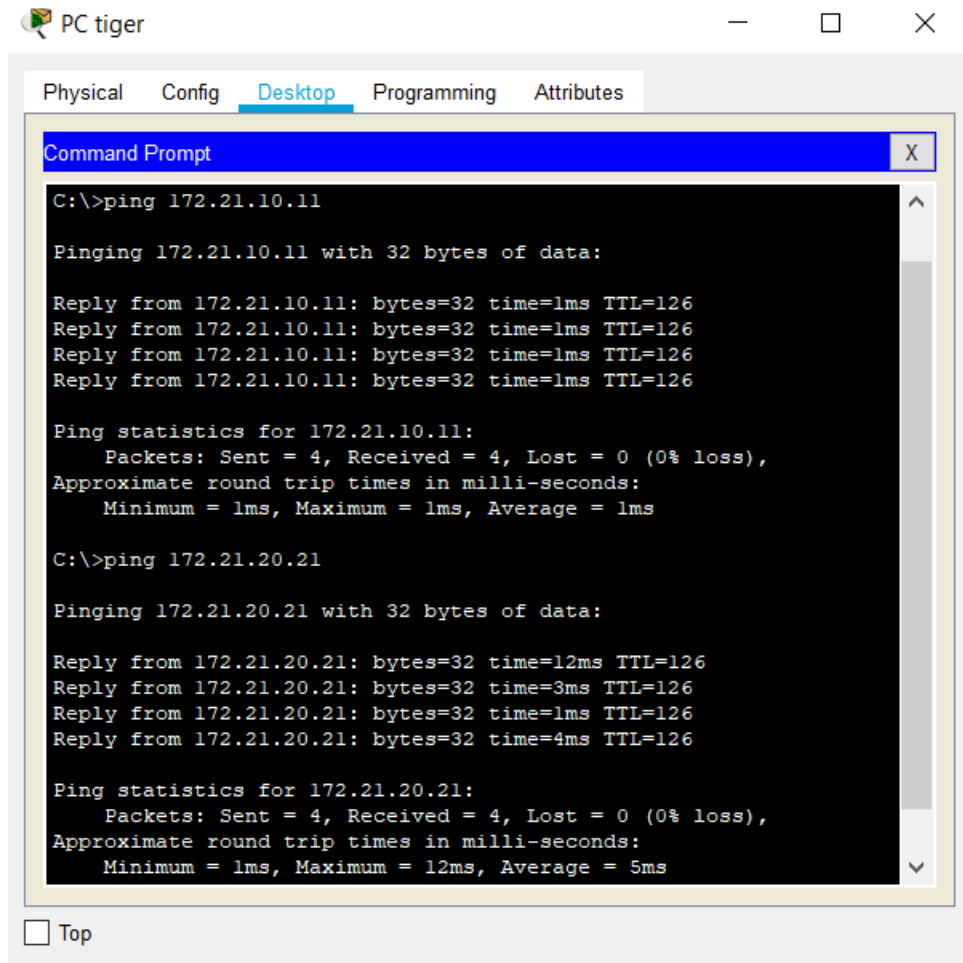
Request timed out.
Reply from 172.21.30.31: bytes=32 time=3ms TTL=126
Reply from 172.21.30.31: bytes=32 time=3ms TTL=126
Reply from 172.21.30.31: bytes=32 time=3ms TTL=126

Ping statistics for 172.21.30.31:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 3ms, Average = 3ms
```

3. Eagle to puma & tiger



4. Tiger to puma & eagle



The screenshot shows a window titled "PC tiger" with a standard Windows interface. Inside the window, there are tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is active, and within it, a "Command Prompt" window is open. The Command Prompt shows the execution of two ping commands. The first command is "C:\>ping 172.21.10.11", which results in four successful replies with 32 bytes of data, 1ms response time, and a TTL of 126. The statistics show 4 packets sent and received with 0% loss. The second command is "C:\>ping 172.21.20.21", which also results in four successful replies with 32 bytes of data. The response times are 12ms, 3ms, 1ms, and 4ms respectively, all with a TTL of 126. The statistics show 4 packets sent and received with 0% loss. At the bottom of the window, there is a "Top" button.

```
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 = 1ms, Maximum = 1ms, Average = 1ms

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=12ms TTL=126
Reply from 172.21.20.21: bytes=32 time=3ms TTL=126
Reply from 172.21.20.21: bytes=32 time=1ms TTL=126
Reply from 172.21.20.21: bytes=32 time=4ms 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 = 1ms, Maximum = 12ms, Average = 5ms
```

☐ Top