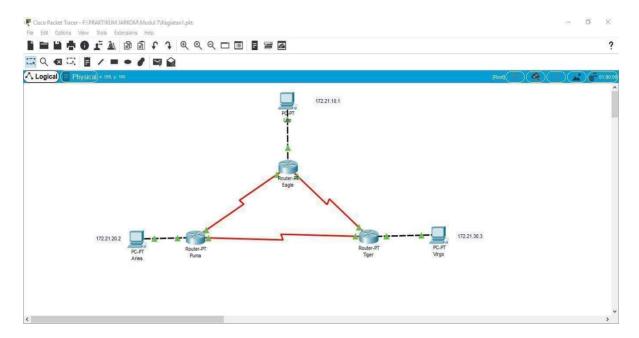
## MODUL 7

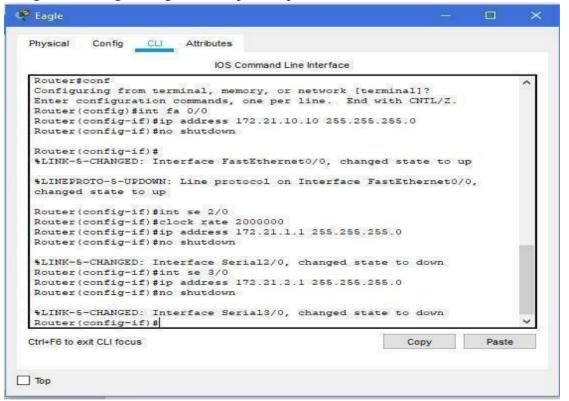
Nama : Muhammad Huda Fatoni

NIM : L200170062

Kelas : B



1. Konfigurasi masing masing interface pada tiap Router





IOS Command Line Interface

```
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: no
Press RETURN to get started!
Router>en
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #int fa 0/0
Router(config-if) #ip address 172.21.20.20 255.255.255.0
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
Router(config-if) #int se 2/0
Router(config-if) #ip address 172.21.1.2 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
Router(config-if) #int se 3/0
Router(config-if)#clo
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to
Router(config-if) #int se 3/0
Router(config-if) #clock rate 2000000
Router(config-if) #ip address 172.21.3.2 255.255.255.0
Router(config-if) #no shutdown
%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#
```

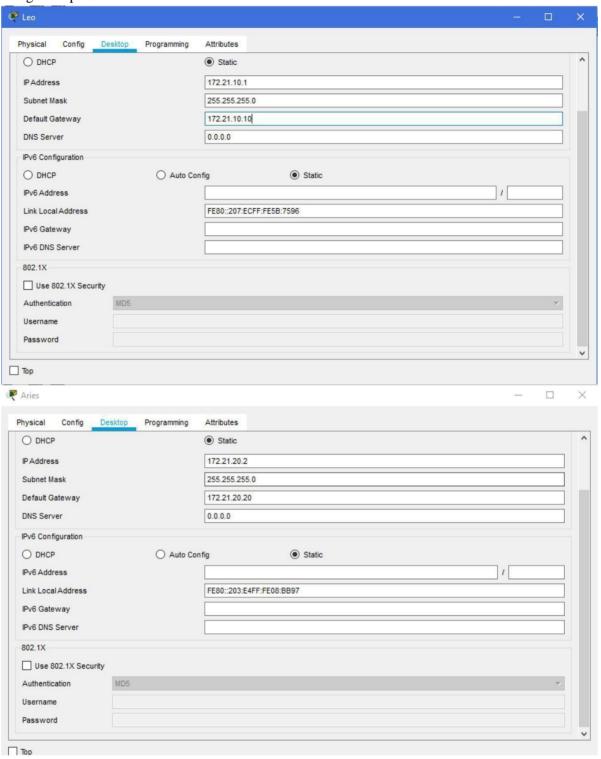
Ctrl+F6 to exit CLI focus

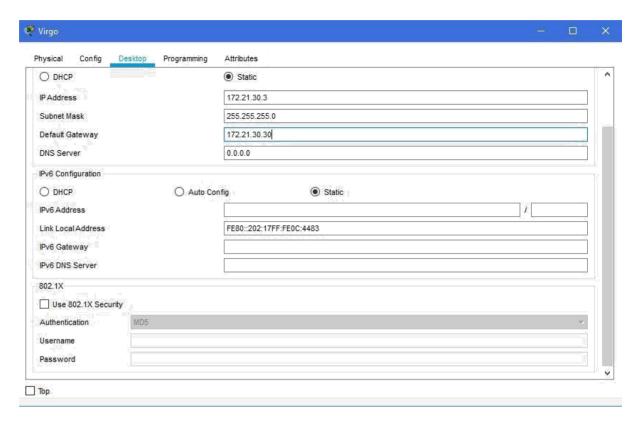
IOS Command Line Interface

```
Press RETURN to get started!
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #int fa 0/0
Router(config-if) #ip address 172.21.30.30 255.255.255.0
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
Router(config-if) #int se 3/0
Router(config-if)#ip address 172.21.3.3 255.255.255.0 Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
Router(config-if)#ip address 172.21.3.3 255.255.255.0 %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
Router(config-if) #int se 2/0
Router(config-if) #clock rate 2000000
Router(config-if)#ip address 172.21.2.3 255.255.255.0 Router(config-if)#no shutdown
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router(config-if)#
```

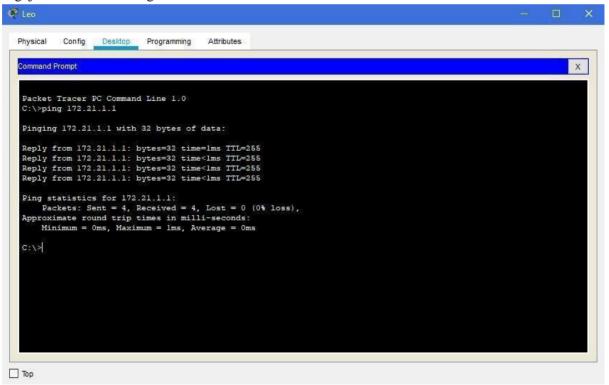
Ctrl+F6 to exit CLI focus

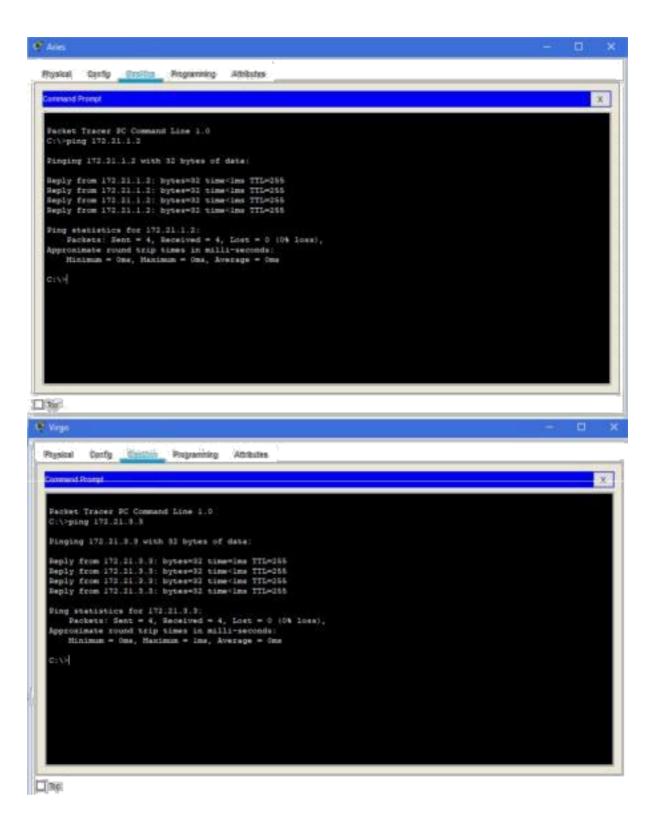
2. Konfigurasi ip PC

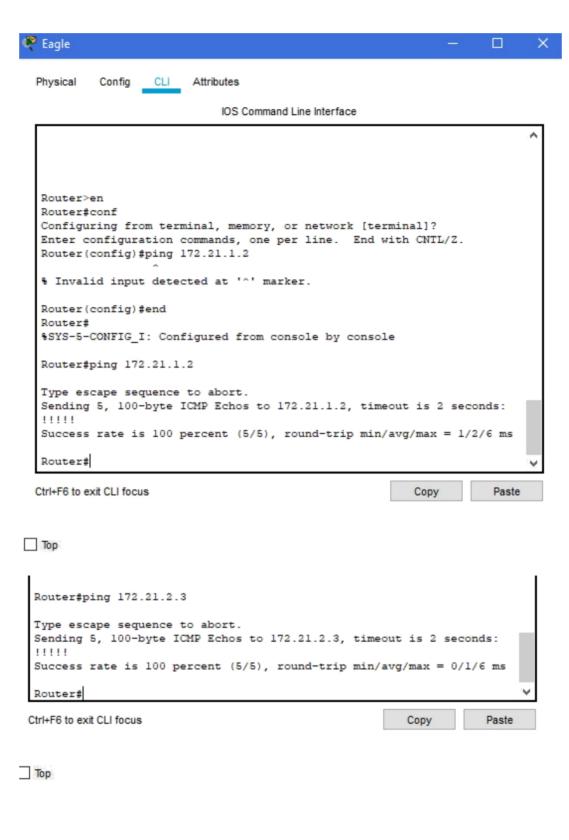




3. Pengujian kesesuain konfigurasi

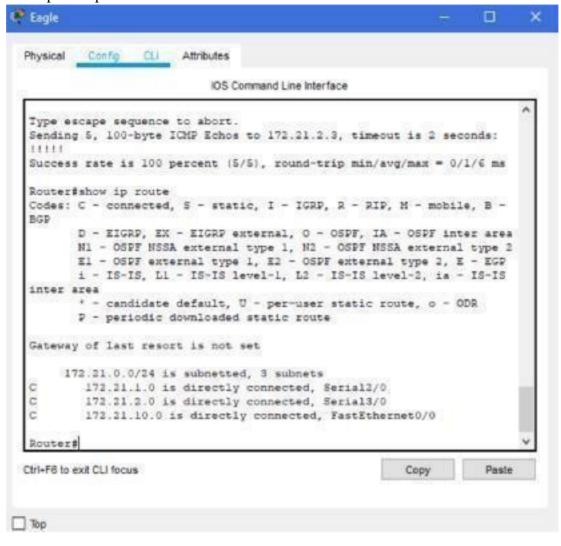








## 4. Menampilkan ip route





Physical Config CLI Attributes

## IOS Command Line Interface

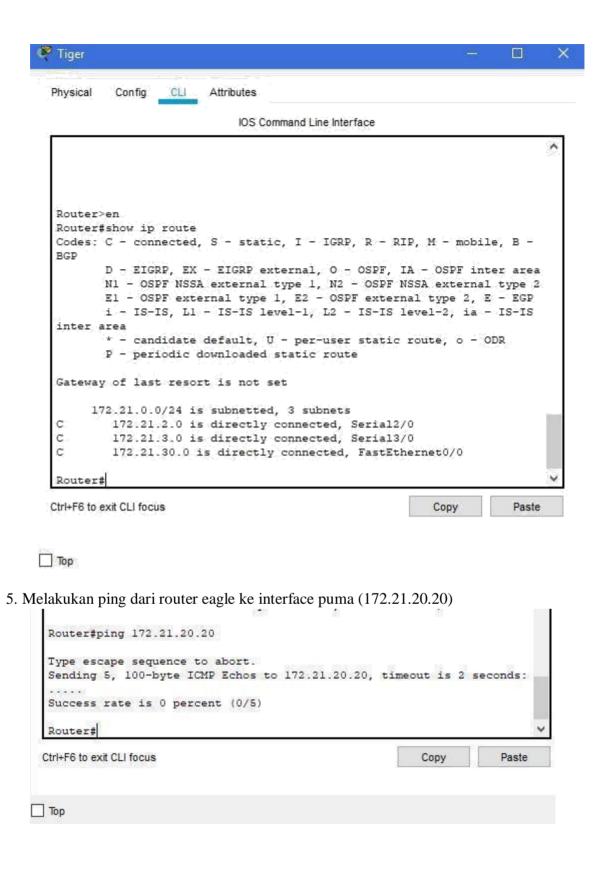
```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.3.3, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/8 ms
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B -
BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS
inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     172.21.0.0/24 is subnetted, 3 subnets
C
        172.21.1.0 is directly connected, Serial2/0
        172.21.3.0 is directly connected, Serial3/0
C
Ċ
        172.21.20.0 is directly connected, FastEthernet0/0
Router#
```

Ctrl+F6 to exit CLI focus

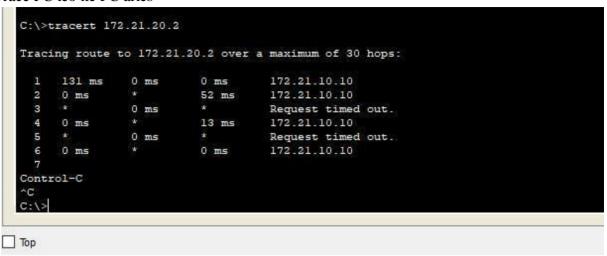
Top

Сору

Paste

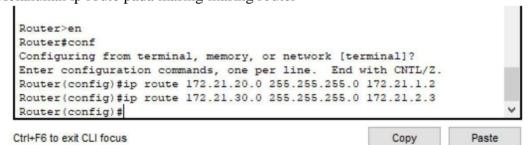


6. Trace PC leo ke PC aries



7. Trace dari PC leo ke router eagle (172.21.1.1)

8. Melakukan ip route pada masing masing router



Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
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 172.21.30.0 255.255.255.0 172.21.3.3
Router(config)#

Ctrl+F6 to exit CLI focus

Copy
Paste

```
Router en Router from terminal, memory, or network [terminal]?

Enter configuration commands, one per line. End with CNTL/2.

Router (config) fip route 172.21.10.0 255.255.255.0 172.21.2.1

Router (config) fip route 172.21.20.0 255.255.255.0 172.21.3.2

Router (config) 

Ctrl+F6 to exit CLI focus

Copy

Paste
```

9. Ping PC leo ke PC aries dan tracer PC leo ke PC aries

```
C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

Request timed out.

Reply from 172.21.20.2: bytes=32 time=130ms TTL=126

Reply from 172.21.20.2: bytes=32 time=15ms TTL=126

Reply from 172.21.20.2: bytes=32 time=1ms TTL=126

Ping statistics for 172.21.20.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

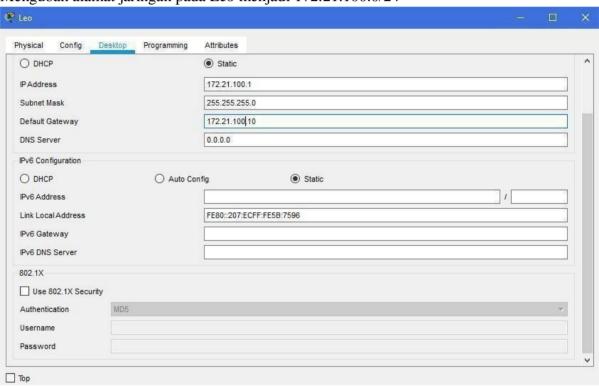
Approximate round trip times in milli-seconds:

Minimum = lms, Maximum = 130ms, Average = 48ms

C:\>
```

```
C:\>tracert 172.21.20.2
  Tracing route to 172.21.20.2 over a maximum of 30 hops:
        0 ms
                  0 ms
                            0 ms
                                      172.21.10.10
        1 ms
                  1 ms
                            4 ms
                                      172.21.1.2
        0 ms
                  13 ms
                            0 ms
                                      172.21.20.2
  Trace complete.
  C:\>
Top
```

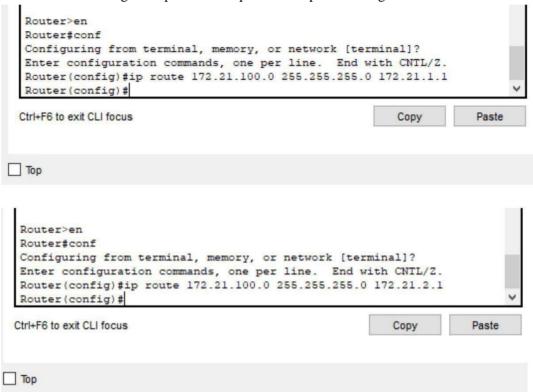
10. Mengubah alamat jaringan pada Leo menjadi 172.21.100.0/24



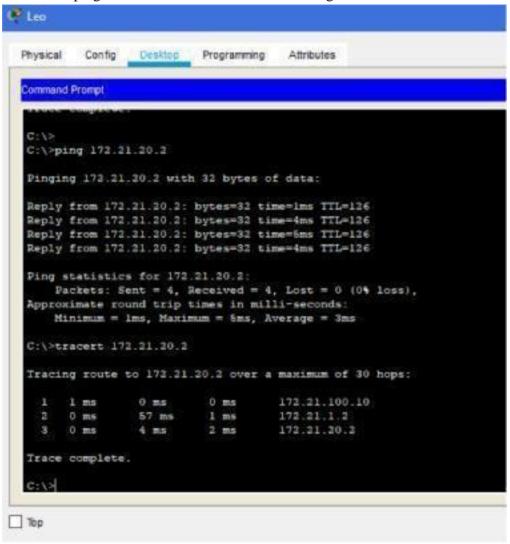
11. Konfigurasi ip baru pada router eagle

Router#en Router#conf	
Configuring from terminal, memory, or network [	
Enter configuration commands, one per line. Enc Router(config)#int fa 0/0	d with CNTL/Z.
Router(config-if)#ip address 172.21.100.10 255.	255.255.0
Router(config-if) #no shutdown	
Router(config-if)#	
Router(config-if)# Ctrl+F6 to exit CLI focus	Сору
	Сору

12. Menambahkan konfigurasi ip route baru pada router puma dan tiger



13. Melakukan ping dan tracer dari Leo ke Aries dan Virgo



Тор

Physical Config Desktop Programming Attributes Command Prompt Trace complete. C:\>ping 172.21.30.3 Pinging 172.21.30.3 with 32 bytes of data: Reply from 172.21.30.3: bytes=32 time=2ms TTL=126 Reply from 172.21.30.3: bytes=32 time=1ms TTL=126 Reply from 172.21.30.3: bytes=32 time=1ms TTL=126 Reply from 172.21.30.3: bytes=32 time=1ms TTL=126 Ping statistics for 172.21.30.3: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 1ms, Maximum = 2ms, Average = 1ms C:\>tracert 172.21.30.3 Tracing route to 172.21.30.3 over a maximum of 30 hops: 0 ms 0 ms 1 56 ms 172.21.100.10 1 ms 1 ms 0 ms 172.21.2.3 2 172.21.30.3 12 ms 3 ms 2 ms Trace complete. C:\>