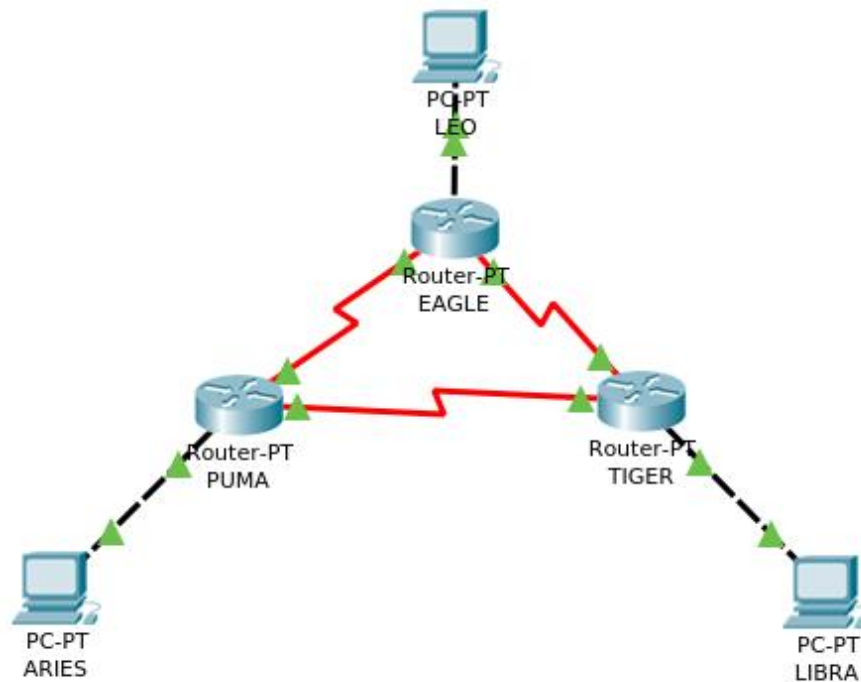


# MODUL 7 PRAKTIKUM JARINGAN KOMPUTER

Nama : Afnan Fauzi Hidayat  
NIM : L200170148  
Kelas : D  
Modul : 7

## Kegiatan 1. Topologi 1 (Static Routing)



### Konfigurasi masing-masing PC

LEO

Physical	Config	Desktop	Programming	Attributes
<input type="radio"/> DHCP <input checked="" type="radio"/> Static				
IP Address		172.21.10.1		
Subnet Mask		255.255.255.0		
Default Gateway		172.21.10.10		
DNS Server		0.0.0.0		

ARIES

Physical	Config	Desktop	Programming	Attributes
<input type="radio"/> DHCP <input checked="" type="radio"/> Static				
IP Address		172.21.20.2		
Subnet Mask		255.255.255.0		
Default Gateway		172.21.20.20		
DNS Server		0.0.0.0		

LIBRA

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address

Subnet Mask

Default Gateway

DNS Server

## Ping PC Leo ke Router Eagle

LEO

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=37ms TTL=255
Reply from 172.21.1.1: bytes=32 time<1ms TTL=255
Reply from 172.21.1.1: bytes=32 time<1ms TTL=255
Reply from 172.21.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 37ms, Average = 9ms

C:\>
```

## Ping PC Aries ke Router Puma

```
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

Reply from 172.21.1.2: bytes=32 time=1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

## Ping PC Libra ke Router Tiger

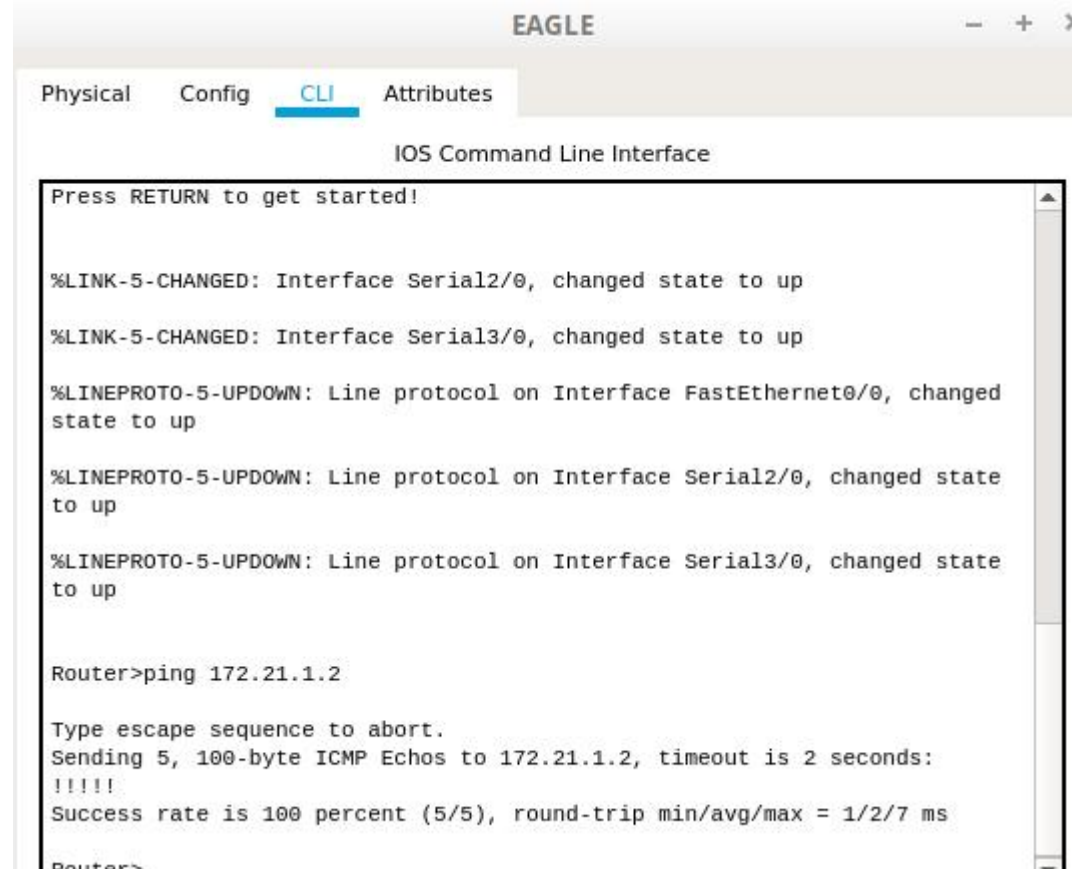
```
Pinging 172.21.3.3 with 32 bytes of data:

Reply from 172.21.3.3: bytes=32 time=1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.3.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

## Ping Router Eagle ke Router Puma



The screenshot shows the EAGLE CLI interface with tabs for Physical, Config, CLI (selected), and Attributes. The main window displays the IOS Command Line Interface. The output shows several status messages: %LINK-5-CHANGED for Serial2/0 and Serial3/0, and %LINEPROTO-5-UPDOWN for FastEthernet0/0, Serial2/0, and Serial3/0, all indicating a change to the 'up' state. The user enters the command 'Router>ping 172.21.1.2'. The output shows 'Type escape sequence to abort.', 'Sending 5, 100-byte ICMP Echos to 172.21.1.2, timeout is 2 seconds:', '!!!!', and 'Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/7 ms'.

```
EAGLE
Physical Config CLI Attributes
IOS Command Line Interface
Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

Router>ping 172.21.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.1.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/7 ms

Router>
```

## Ping Router Eagle ke Router Tiger

```
Router>
Router>ping 172.21.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
```

## Ping Router Puma ke Router Tiger

PUMA

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router>
Router>ping 172.21.3.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.3.3, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/10 ms
```

Lihat route table pada masing-masing router

EAGLE

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>
Router>
Router>
Router>
Router>
Router>
Router>
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
C       172.21.2.0 is directly connected, Serial3/0
C       172.21.10.0 is directly connected, FastEthernet0/0

Router>
```

PUMA

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router>
Router>
Router>
Router>
Router>
Router>
Router>
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
C       172.21.3.0 is directly connected, Serial3/0
C       172.21.20.0 is directly connected, FastEthernet0/0

Router>
```

TIGER

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

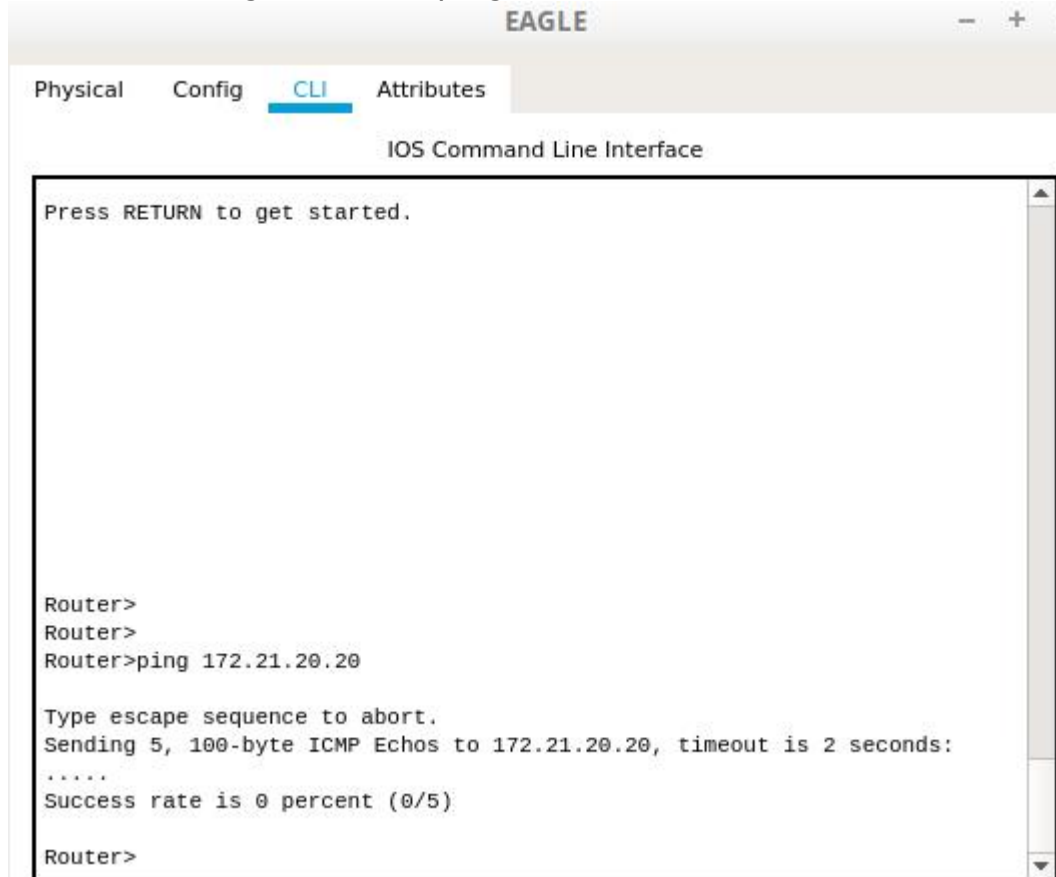
Router>
Router>
Router>
Router>show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF 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       172.21.2.0 is directly connected, Serial2/0
C       172.21.3.0 is directly connected, Serial3/0
C       172.21.30.0 is directly connected, FastEthernet0/0

Router>
```

Dari Router Eagle lakukan ping ke alamat interface e0 router Puma



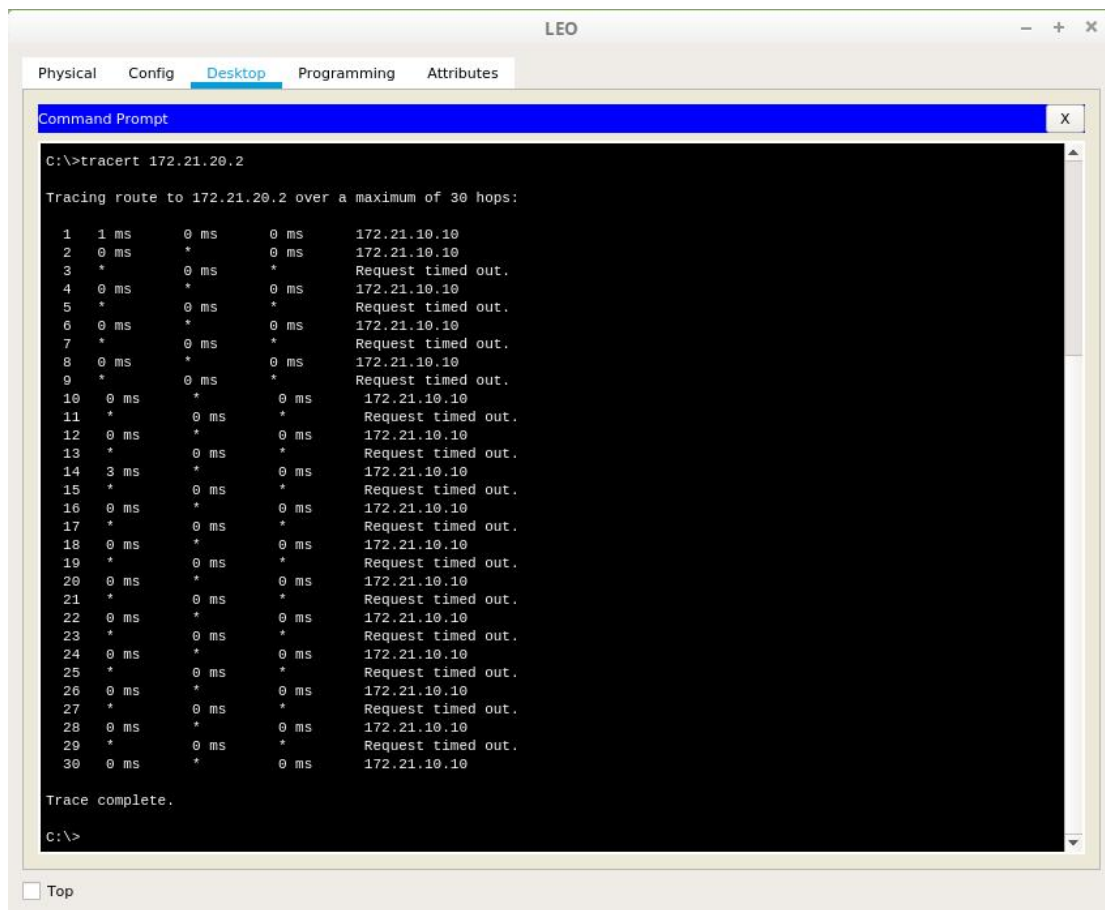
```
EAGLE
Physical  Config  CLI  Attributes
IOS Command Line Interface
Press RETURN to get started.

Router>
Router>
Router>ping 172.21.20.20

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.20.20, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)

Router>
```

Dari PC Leo lakukan trace ke PC Aries



Dari PC Leo lakukan trace ke alamat interface s0 router Eagle

```
C:\>tracert 172.21.1.1

Tracing route to 172.21.1.1 over a maximum of 30 hops:

  1  1 ms    0 ms    0 ms    172.21.1.1

Trace complete.
```

Pada mode user atau mode privileged, tambahkan route table pada masing-masing router untuk setiap alamat jaringan yang tidak terhubung secara langsung dengan interface router

```
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.1.2
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.2.3
Router(config)#
```

```
Router>en
Router#conf term
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)#
```

```
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.2
```



Dari PC Leo lakukan ping ke PC Aries, dan lakukan pula trace dari PC Leo ke Aries

```
C:\>
C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

Reply from 172.21.20.2: bytes=32 time=67ms TTL=126
Reply from 172.21.20.2: bytes=32 time=1ms TTL=126
Reply from 172.21.20.2: bytes=32 time=3ms 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 = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 67ms, Average = 18ms
```

```
C:\>
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

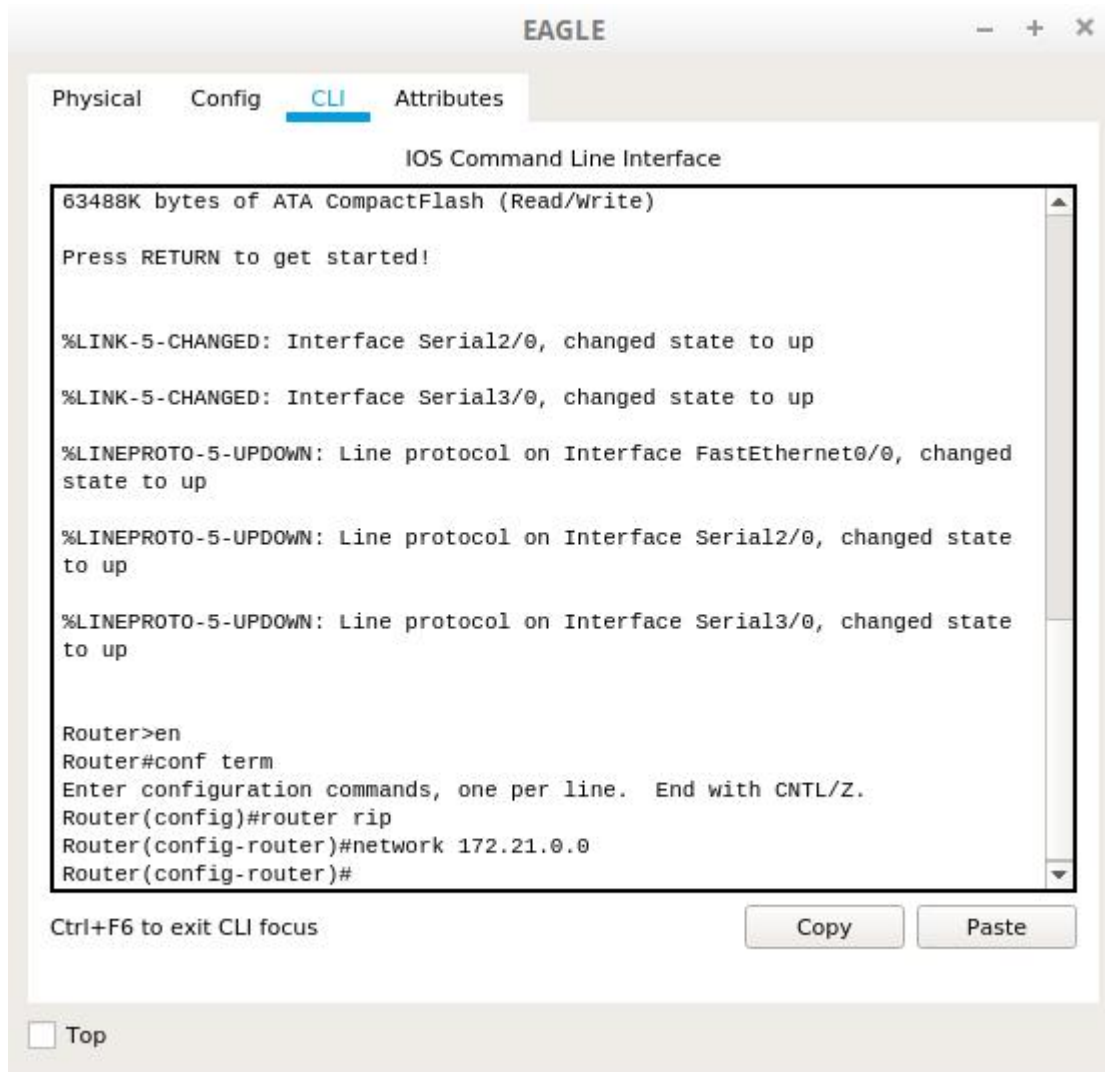
  0  0 ms    0 ms    0 ms    172.21.10.10
  1  0 ms    0 ms    0 ms    172.21.1.2
  2  3 ms    3 ms    0 ms    172.21.20.2

Trace complete.
```

## Kegiatan 2. RIP (Routing Information Protocol)

Pada mode configuration, konfigurasi routing RIP pada router Eagle.



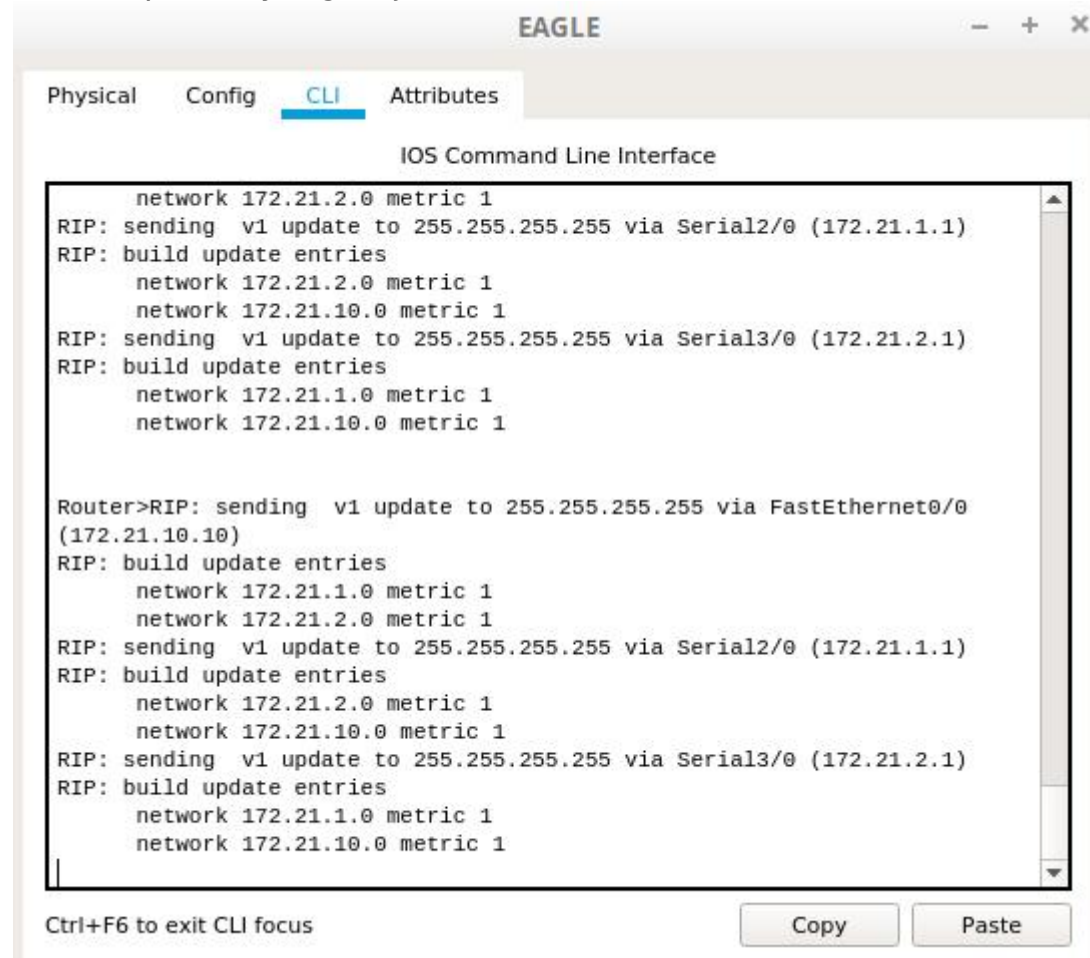


Lihat Konfigurasi routing RIP yang telah dibuat dengan perintah **“show running-config”** pada mode user. Perhatikan konfigurasi pada bagian “router rip”.

```
Router#show running-config
Building configuration...

Current configuration : 777 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
```

Lihat proses update routing RIP pada router eagle dengan perintah “**debug ip rip**” pada mode user. Tunggu beberapa saat untuk melihat proses yang terjadi.



The screenshot shows the EAGLE GUI with the CLI tab selected. The CLI window displays the output of the 'debug ip rip' command. The output shows the router sending v1 updates to three interfaces: Serial2/0, Serial3/0, and FastEthernet0/0. For each interface, it lists the networks being advertised: 172.21.2.0 and 172.21.10.0 for Serial2/0, 172.21.1.0 and 172.21.10.0 for Serial3/0, and 172.21.1.0 and 172.21.2.0 for FastEthernet0/0. All networks have a metric of 1. The CLI window also shows the prompt 'Router>' and a status bar at the bottom indicating 'Ctrl+F6 to exit CLI focus'.

```
network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
  network 172.21.2.0 metric 1
  network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
  network 172.21.1.0 metric 1
  network 172.21.10.0 metric 1

Router>RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0
(172.21.10.10)
RIP: build update entries
  network 172.21.1.0 metric 1
  network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
  network 172.21.2.0 metric 1
  network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
  network 172.21.1.0 metric 1
  network 172.21.10.0 metric 1
```

Lakukan konfigurasi routing RIP pada router puma dan tiger. Perhatikan proses update routing RIP pada router eagle ketika konfigurasi router puma dan tiger dilakukan.

PUMA

Physical Config CLI Attributes

IOS Command Line Interface

```
Press RETURN to get started!

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

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINK-5-CHANGED: Interface Serial3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up

Router>
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#
```

TIGER

Physical Config CLI Attributes

IOS Command Line Interface

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

%LINK-5-CHANGED: Interface Serial3/0, changed state to up

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

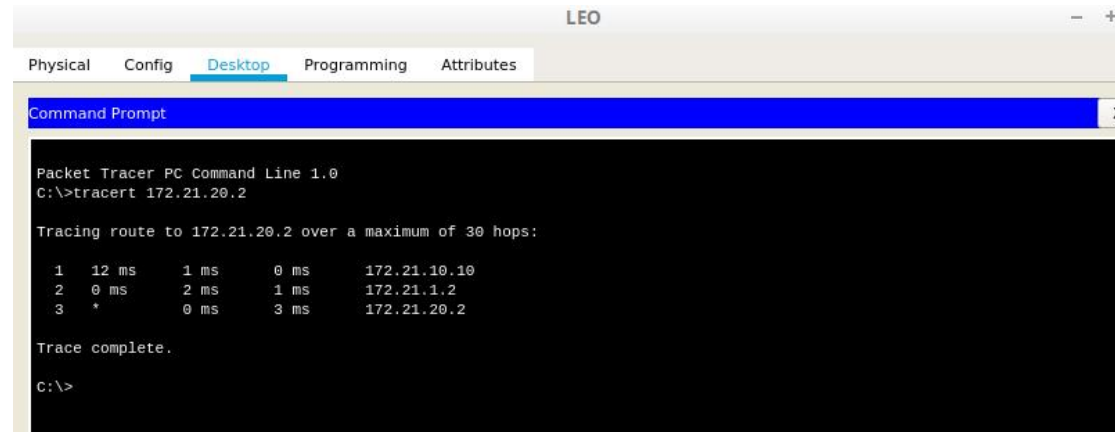
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#routerrip
      ^
% Invalid input detected at '^' marker.

Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#
```

Dari PC Leo lakukan trace ke PC Aries



LEO

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>tracert 172.21.20.2

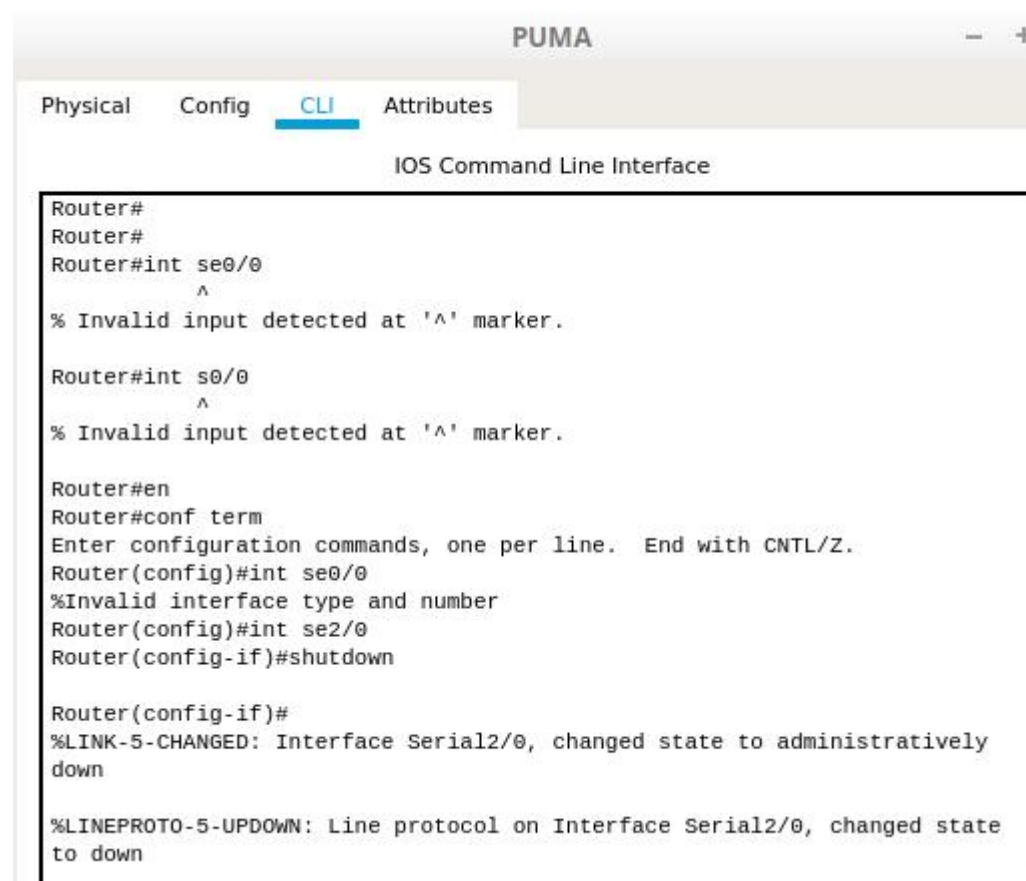
Tracing route to 172.21.20.2 over a maximum of 30 hops:

  1  12 ms   1 ms   0 ms   172.21.10.10
  2   0 ms   2 ms   1 ms   172.21.1.2
  3   *      0 ms   3 ms   172.21.20.2

Trace complete.

C:\>
```

Buat hubungan antara router eagle dan puma terputus dan perhatikan proses update routing RIP yang terjadi.



PUMA

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router#
Router#
Router#int se0/0
      ^
% Invalid input detected at '^' marker.

Router#int s0/0
      ^
% Invalid input detected at '^' marker.

Router#en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se0/0
%Invalid interface type and number
Router(config)#int se2/0
Router(config-if)#shutdown

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to down
```

Dari PC Leo lakukan trace ke PC Aries

```

C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

  1  1 ms    0 ms    0 ms    172.21.10.10
  2  1 ms    1 ms    1 ms    172.21.2.3
  3  1 ms    0 ms    1 ms    172.21.3.2
  4  0 ms    1 ms    1 ms    172.21.20.2

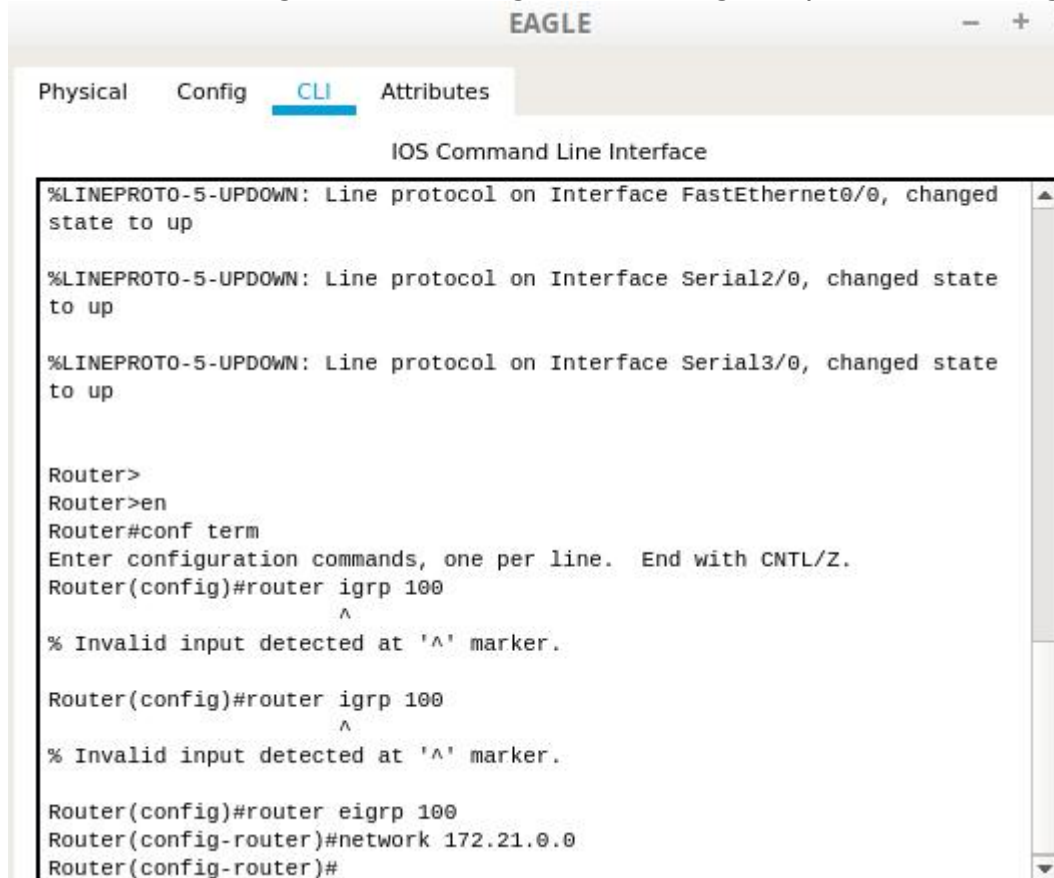
Trace complete.

C:\>

```

### Kegiatan 3. IGRP (Internet Gateway Routing Protocol)

Pada mode configuration, konfigurasi routing RIP pada router Eagle



```

EAGLE

Physical  Config  CLI  Attributes

IOS Command Line Interface

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

Router>
Router>en
Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router igrp 100
      ^
% Invalid input detected at '^' marker.

Router(config)#router igrp 100
      ^
% Invalid input detected at '^' marker.

Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#

```

Lihat konfigurasi routing IGRP yang telah dibuat dengan perintah **“show running-config”** pada mode user. Perhatikan konfigurasi pada bagian “router rip”

EAGLE

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#
Router#show running-config
Building configuration...

Current configuration : 810 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
--More--
```

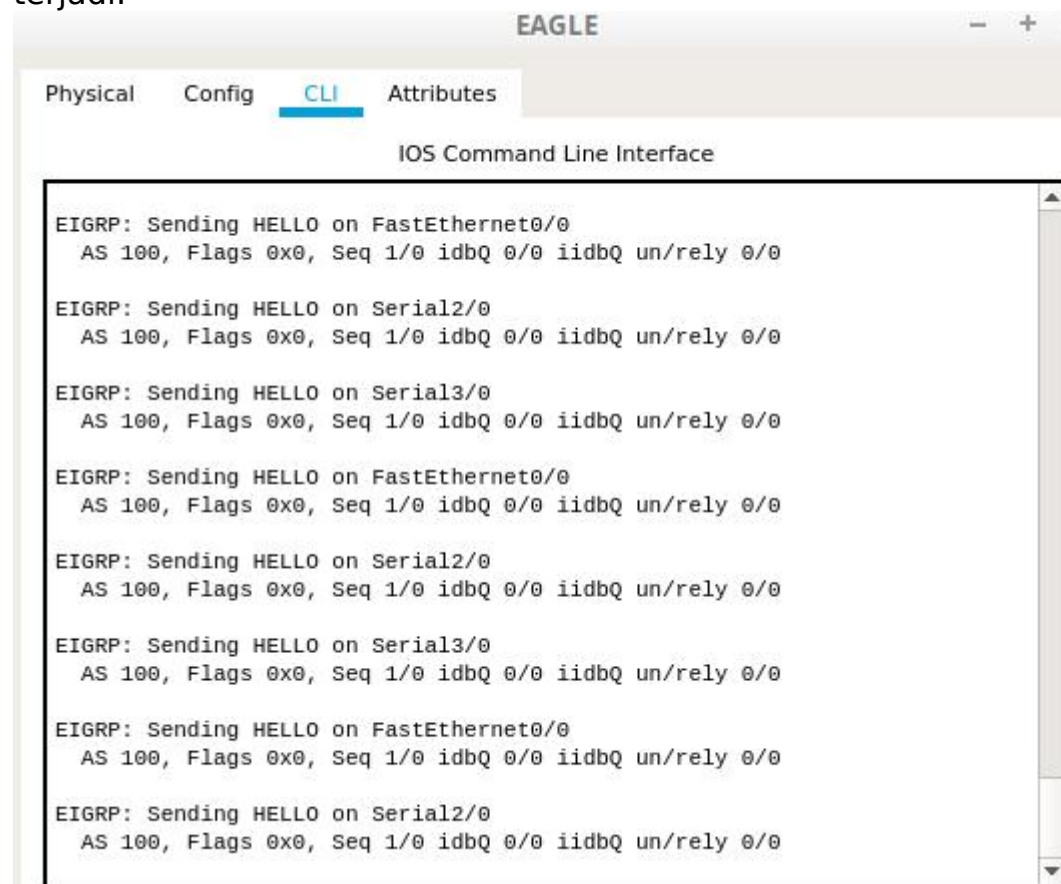
EAGLE

Physical Config CLI Attributes

IOS Command Line Interface

```
!
interface Serial3/0
 ip address 172.21.2.1 255.255.255.0
!
interface FastEthernet4/0
 no ip address
 shutdown
!
interface FastEthernet5/0
 no ip address
 shutdown
!
router eigrp 100
 network 172.21.0.0
 auto-summary
!
router rip
!
ip classless
!
ip flow-export version 9
!
!
!
!
```

Lihat proses transaksi routing IGRP pada router eagle dengan perintah “**debug ip igrp transactions**” pada mode user. Tunggu beberapa saat untuk melihat informasi transaksi routing IGRP yang terjadi.

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 output shows a series of EIGRP Hello messages being sent on various interfaces (FastEthernet0/0, Serial2/0, Serial3/0) with AS 100, Flags 0x0, Seq 1/0, idbQ 0/0, and iibbQ un/rely 0/0. The messages are repeated for each interface multiple times.

```
EAGLE
Physical Config CLI Attributes
IOS Command Line Interface

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0

EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0

EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0

EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iibbQ un/rely 0/0
```

Lihat proses transaksi routing IGRP pada router eagle dengan perintah “**debug ip igrp transactions**” pada mode user. Tunggu beberapa saat untuk melihat informasi transaksi routing IGRP yang terjadi.

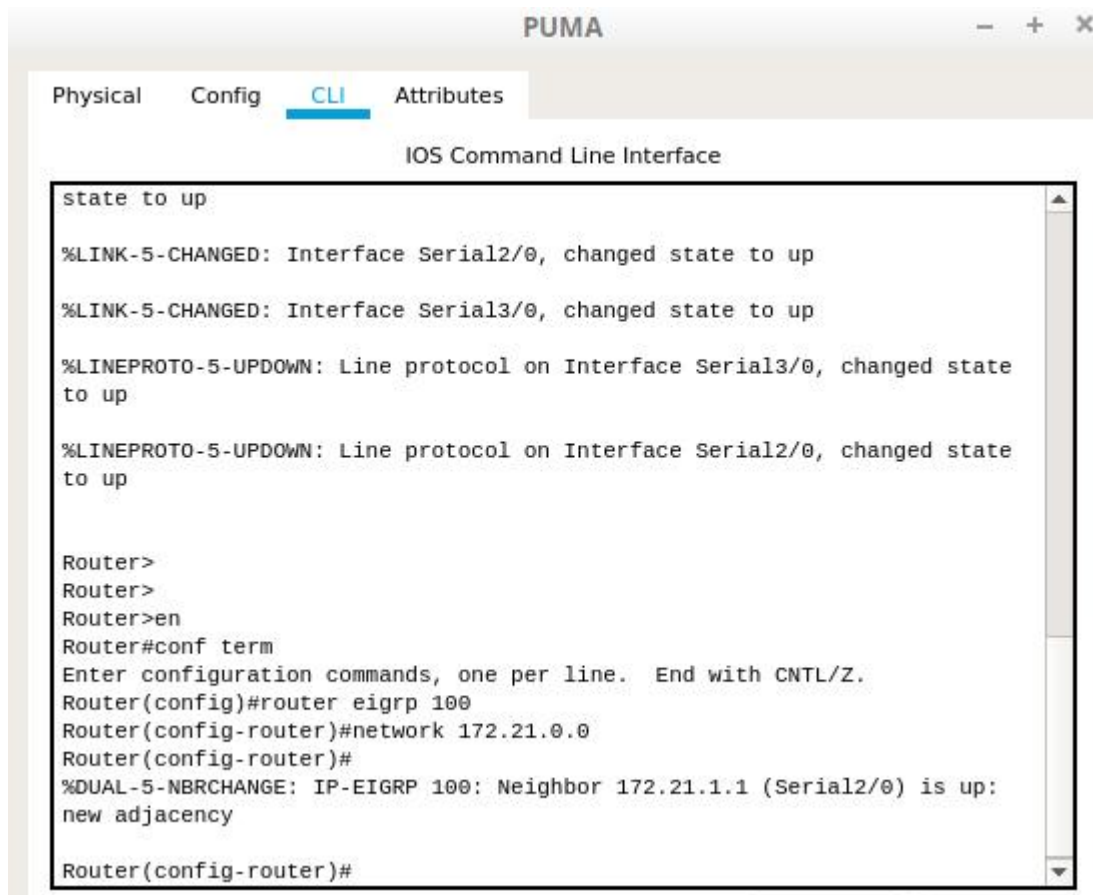
**Catatan:** Hasil tampilan perintah “**debug ip igrp transactions**” memperlihatkan informasi update routing IGRP secara detail. Untuk melihat informasi update routing IGRP secara lebih ringkas digunakan perintah “**debug ip igrp events**” (dengan lebih dahulu menonaktifkan “**debug ip igrp transaction**” dengan perintah “**no debug ip igrp transactions**”)

Lakukan konfigurasi routing IGRP pada router puma dan tiger. Perhatikan proses update routing IGRP pada router eagle (secara detail) ketika konfigurasi router puma dan tiger dilakukan.

Router Puma:

- Konfigurasi routing EIGRP pada router Puma



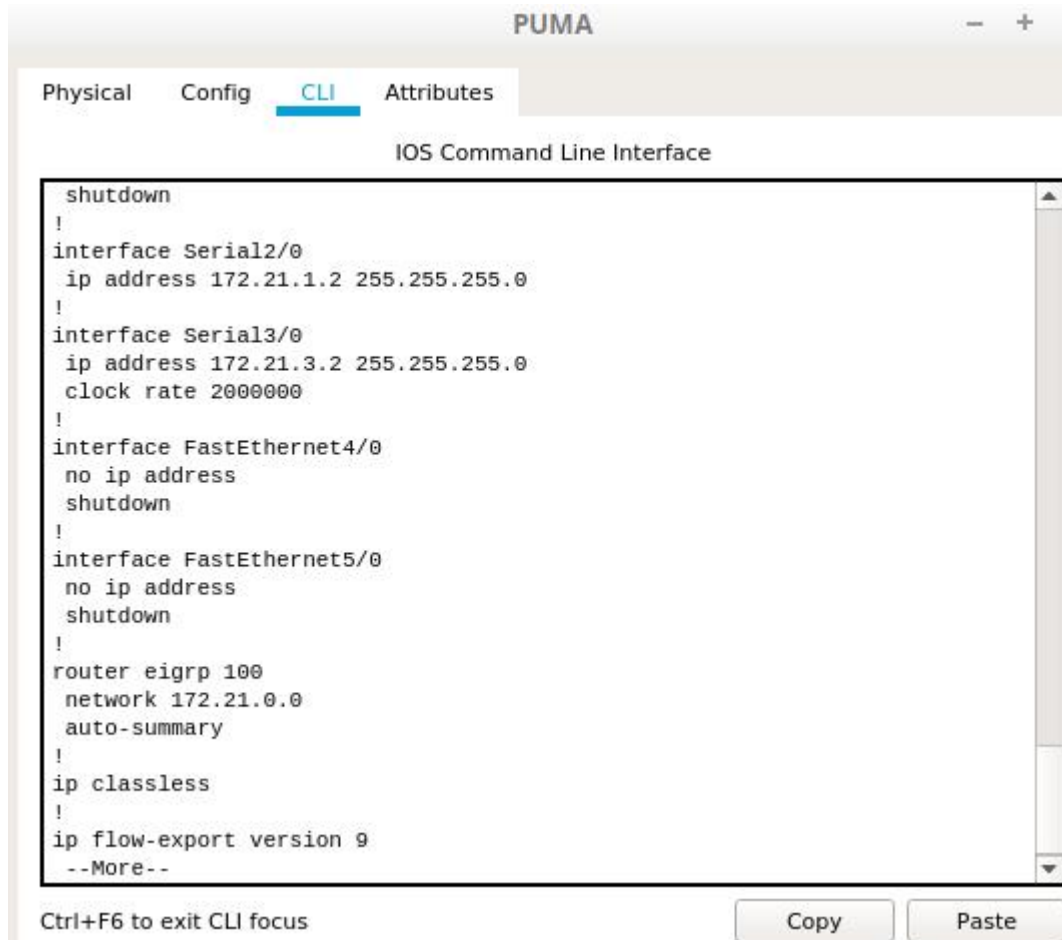


The screenshot shows a window titled "PUMA" with a tabbed interface. The "CLI" tab is selected, displaying the "IOS Command Line Interface". The terminal output shows the following sequence of commands and messages:

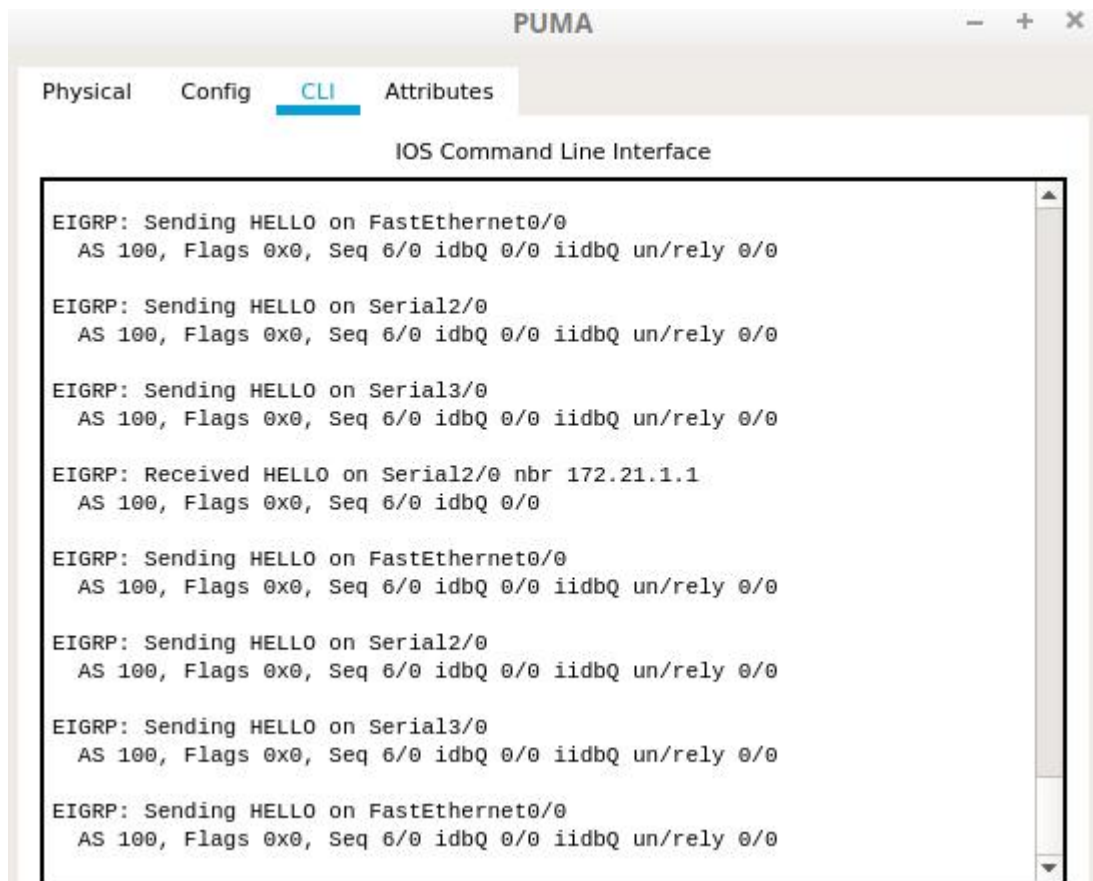
```
state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router>
Router>
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.1.1 (Serial2/0) is up:
new adjacency
Router(config-router)#
```

- Melihat konfigurasi EIGRP yang telah dibuat



- Melihat proses transaksi routing EIGRP pada router Puma



Router Tiger:

- Konfigurasi routing EIGRP pada router Tiger

The screenshot shows the TIGER network simulator's CLI window. The 'CLI' tab is selected. The window title is 'TIGER'. The interface is titled 'IOS Command Line Interface'. The output shows several status messages: '%LINK-5-CHANGED: Interface Serial3/0, changed state to up', '%LINK-5-CHANGED: Interface Serial2/0, changed state to up', '%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up', and '%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up'. The user enters 'Router>' and 'Router>' twice, then 'Router>en' to enter configuration mode. They enter 'Router#conf term' to enter configuration terminal mode. The prompt changes to 'Router(config)#'. They enter 'router eigrp 100', then 'network 172.21.0.0', and then a '#' to exit configuration mode. The prompt returns to 'Router(config-router)#'. Two more status messages appear: '%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.3.2 (Serial3/0) is up: new adjacency' and '%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.2.1 (Serial2/0) is up: new adjacency'.

```
TIGER
Physical Config CLI Attributes
IOS Command Line Interface

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router>
Router>
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.3.2 (Serial3/0) is up:
new adjacency
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.2.1 (Serial2/0) is up:
new adjacency
```

- Melihat konfigurasi EIGRP yang telah dibuat

The screenshot shows the TIGER network simulator's CLI window. The 'CLI' tab is selected. The window title is 'TIGER'. The interface is titled 'IOS Command Line Interface'. The user enters 'Router#' and 'Router#show running-config'. The output shows the running configuration: 'Building configuration...', 'Current configuration : 797 bytes', followed by a series of exclamation marks (!) indicating configuration sections. The visible configuration includes 'version 12.2', 'no service timestamps log datetime msec', 'no service timestamps debug datetime msec', 'no service password-encryption', 'hostname Router', and 'ip cef'. The output ends with '--More--'.

```
TIGER
Physical Config CLI Attributes
IOS Command Line Interface

Router#
Router#show running-config
Building configuration...

Current configuration : 797 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
--More--
```

- Melihat proses transaksi routing EIGRP pada router Tiger

```
EIGRP: Sending HELLO on FastEthernet0/0
  AS 100, Flags 0x0, Seq 11/0 idbQ 0/0 iibQ un/rely 0/0

EIGRP: Received HELLO on Serial3/0 nbr 172.21.3.2
  AS 100, Flags 0x0, Seq 9/0 idbQ 0/0

EIGRP: Sending HELLO on Serial3/0
  AS 100, Flags 0x0, Seq 11/0 idbQ 0/0 iibQ un/rely 0/0

EIGRP: Sending HELLO on Serial2/0
  AS 100, Flags 0x0, Seq 11/0 idbQ 0/0 iibQ un/rely 0/0

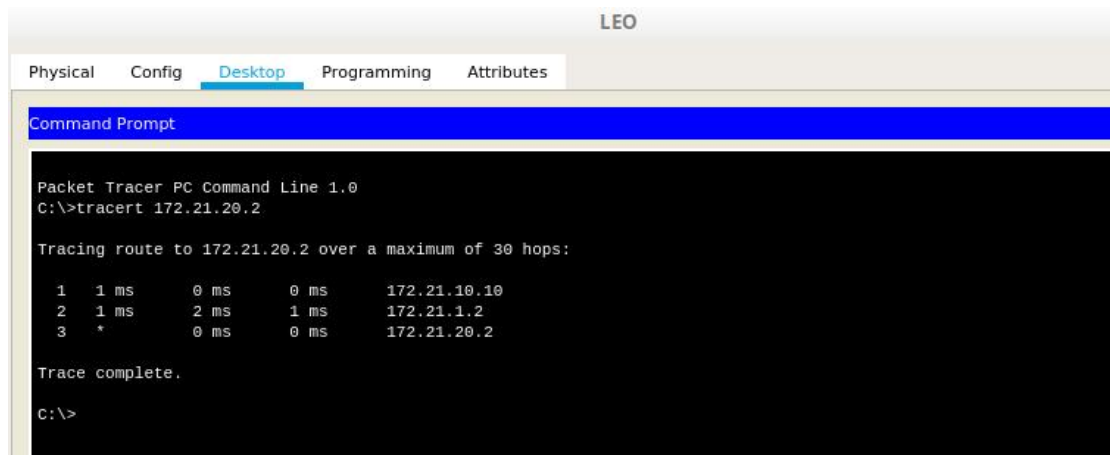
EIGRP: Received HELLO on Serial2/0 nbr 172.21.2.1
  AS 100, Flags 0x0, Seq 9/0 idbQ 0/0

EIGRP: Sending HELLO on FastEthernet0/0
  AS 100, Flags 0x0, Seq 11/0 idbQ 0/0 iibQ un/rely 0/0

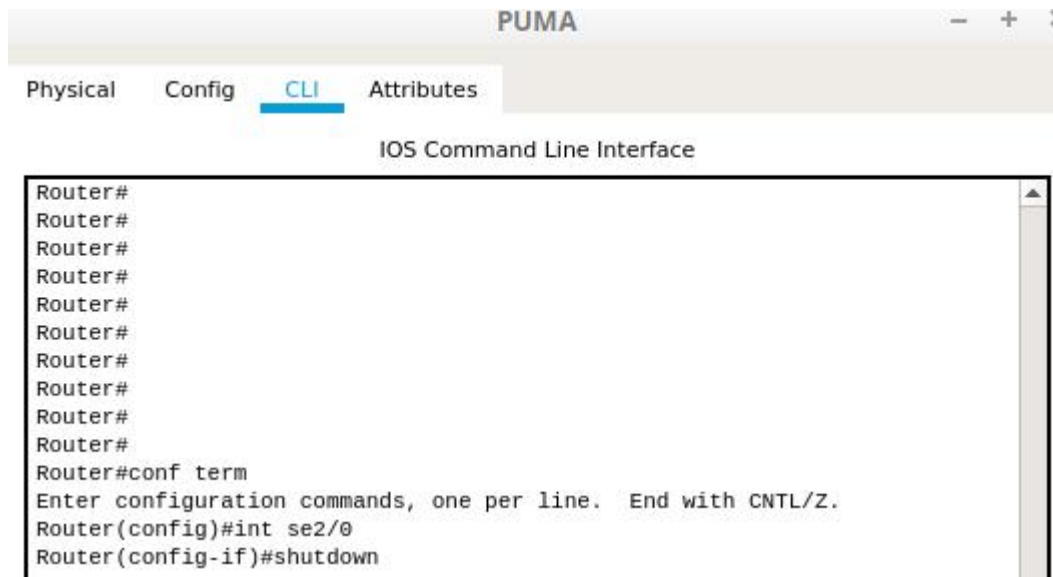
EIGRP: Received HELLO on Serial3/0 nbr 172.21.3.2
  AS 100, Flags 0x0, Seq 9/0 idbQ 0/0

EIGRP: Sending HELLO on Serial3/0
  AS 100, Flags 0x0, Seq 11/0 idbQ 0/0 iibQ un/rely 0/0
```

Dari PC Leo lakukan trace ke PC Aries



Buat hubungan antara router eagle dan puma terputus dan perhatikan proses update routing RIP yang terjadi



Dari PC Leo lakukan trace ke PC Aries.

```
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

  0  1 ms    0 ms    0 ms    172.21.10.10
  1  0 ms    0 ms    1 ms    172.21.2.3
  2  2 ms    0 ms    0 ms    172.21.3.2
  3  0 ms    0 ms    1 ms    172.21.20.2

Trace complete.

C:\>
```