NAMA : ANNAS FAGIAT

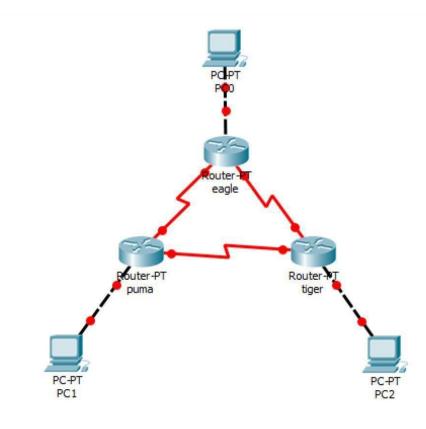
NIM : L200170163

KELAS : D

KEGIATAN MODUL 7 PRAKTIKUM JARINGAN KOMPUTER (STATIC ROUTING, RIP, & IGRP)

KEGIATAN 1 STATIC ROUTING

- 1. Buat topologi
- 2. Beri nama



3. - Konfigurasi IP address interface ethernet 0 untuk router eagle

Router#en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip add 172.21.10.10 255.255.255.0
Router(config-if)#no shutdown

- Konfigurasi IP address interface serial 0 dan serial 1 untuk router eagle

```
Router(config-if) #int se2/0
Router(config-if) #clock rate 2000000
Router(config-if) #ip add 172.21.1.1 255.255.255.0
Router(config-if) #no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if) #int se3/0
Router(config-if) #clock rate 2000000
Router(config-if) #p add 172.21.2.1 255.255.255.0
Router(config-if) #no shutdown

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

- Konfigurasi IP address interface ethernet 0 untuk router puma

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip add 172.21.20.20 255.255.255.0
Router(config-if)#no shutdown
```

- Konfigurasi IP address interface serial 0 dan serial 1 untuk router puma

```
Router(config-if) #int se2/0
Router(config-if) #ip add 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 se3/0
Router(config-if) #c1
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
% Ambiguous command: "c"
Router(config-if) #clock rate 2000000
Router(config-if) #clock rate 2000000
Router(config-if) #ip add 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) #
```

Konfigurasi IP address interface ethernet 0 untuk router tiger

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip add 172.21.30.30 255.255.255.0
Router(config-if)#no shutdown
```

 Konfigurasi IP address interface serial 0 dan serial 1 untuk router tiger

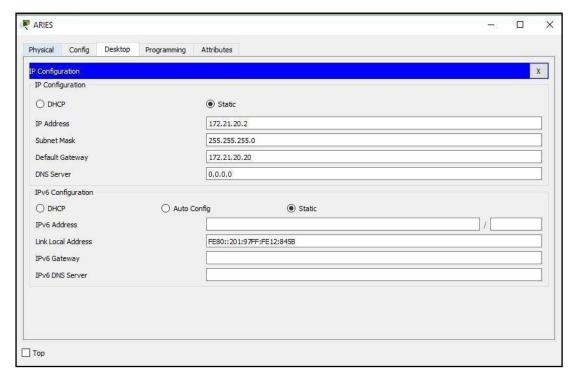
```
Router(config-if) #int se2/0
Router(config-if) #ip add 172.21.2.3 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
Router(config-if) #int se3/0
Router(config-if) #ip add 162
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,
changed state to up
% Invalid input detected at '^' marker.
Router(config-if) #ip add 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
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0,
changed state to up
```

4. -

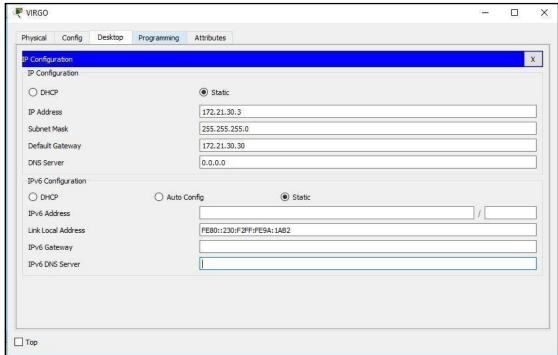
Konfigurasi IP address PC Leo

hysical	Config	Desktop	Programming	Attributes				
ante autoria	I automora/Proces							
P Configu IP Confi	SCHOOL STREET				X			
O DHCP				Static				
IP Address				172.21.10.1				
Subnet	Subnet Mask			255.255.255.0				
Default	Default Gateway			172.21.10.10				
DNS Server				0.0.0.0				
IPv6 Co	nfiguration							
ODHO			O Auto C	Config	Static			
	IPv6 Address							
Link Loc	Link Local Address			FE80::260:5CFF:FE58:27BC				
IPv6 Ga	teway							
IPv6 DNS Server								

Konfigurasi IP address PC Aries



Konfigurasi IP address PC Virgo



5. Lakukang ping dari PC leo ke router eagle

```
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=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

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 = 1ms, Average = 0ms

C:\>
```

Lakukan ping dari PC aries ke router puma

```
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=22ms TTL=255
Reply from 172.21.1.1: bytes=32 time<1ms TTL=255
Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

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Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.1.1: bytes=32 time
```

Lakukan ping dari PC arieske router puma

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
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<lms TTL=255
Reply from 172.21.1.2:
```

Lakukan ping dari PC virgoke router tiger

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\pring 172.21.3.3 with 32 bytes of data:
Reply from 172.21.3.3: bytes=32 time=lms TTL=255
Reply from 172.21.3.3: bytes=32 time<lms TTL=255
Comparison of the state of t
```

 Lakukan ping dari router eagle ke router puma

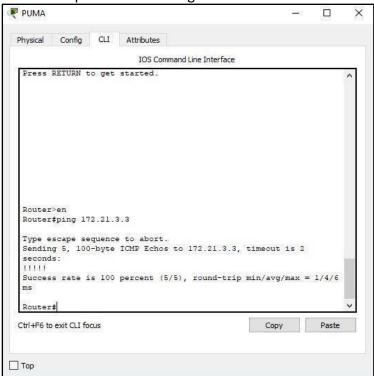


Lakukan ping dari router eagle ke router tiger

EAGLE. X Physical Config CLI Attributes IOS Command Line Interface Router>en 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 = 1/3/15 ms Router#ping 172.21.2.3 Type escape sequence to abort.

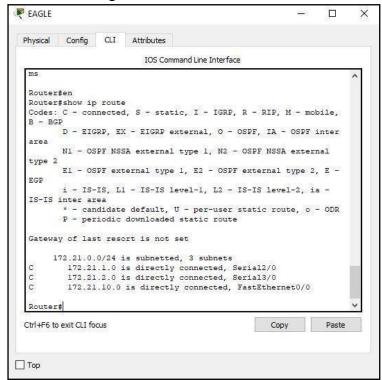
Sending 5, 100-byte ICMP Echos to 172.21.2.3, timeout is 2 seconds: Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/6 ms Router# Ctrl+F6 to exit CLI focus Сору Paste □ Тор

Lakukan ping dari router puma ke router tiger

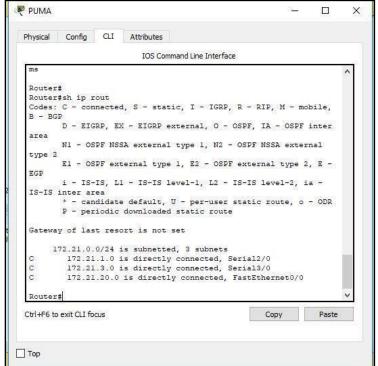


_

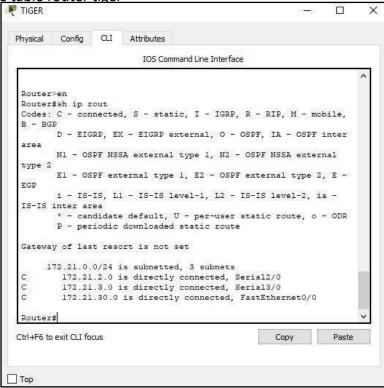
- 6. Simpan konfigurasi seluruh device yang telah dilakukan
- 7. Melihat route table router eagle



Melihat route table router puma



Melihat route table router tiger



8. Lakukan ping dari router eagle kealamat interface S0 router puma(172.21.20.20)

```
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)
```

9. Lakukan trace dari PC leoke PC aries

```
C:\>tracert 172.21.20.2
Tracing route to 172.21.20.2 over a maximum of 30 hops:
               0 ms
                                    172.21.10.10
      0 ms
                          0 ms
                                    172.21.1.2
  2
      1 ms
                4 ms
                         13 ms
      13 ms
               3 ms
                         10 ms
                                    172.21.20.2
Trace complete.
C:\>
```

10. Lakukan trace dari PC leokealamat interface s0 router eagle(172.21.1.1)

11. - Menambahkan route table pada router eagle

```
Router#en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
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)#
```

Menambahkan route table pada router puma

```
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)#
```

Menambahkan route table pada router tiger

```
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.2
Router(config)#
```

12. Lakukan ping dari PC leoke PC aries, danlakukan pula trace dari PC leokearies

```
C:\>tracert 172.21.1.1
Tracing route to 172.21.1.1 over a maximum of 30 hops:
     0 ms
               0 ms
                         0 ms
                                   172.21.1.1
Trace complete.
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=1ms TTL=126
Reply from 172.21.20.2: bytes=32 time=2ms TTL=126
Reply from 172.21.20.2: bytes=32 time=1ms 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 = 2ms, Average = 1ms
```

-

-		

```
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

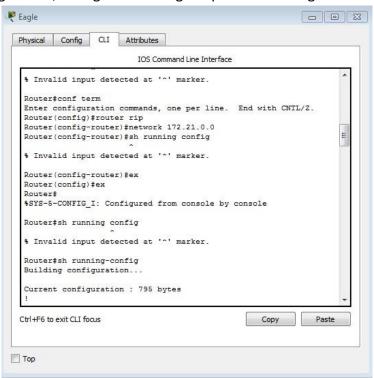
1 0 ms 0 ms 0 ms 172.21.10.10
2 1 ms 4 ms 13 ms 172.21.1.2
3 13 ms 3 ms 10 ms 172.21.20.2

Trace complete.

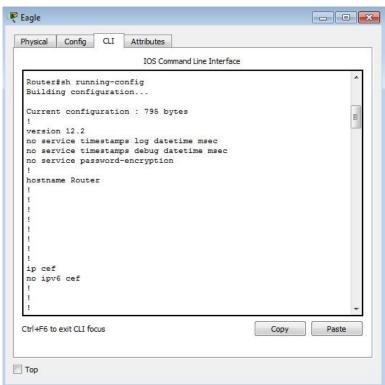
C:\>
```

KEGIATAN 2 RIP (Routing Information Protocol)

3. Pada mode configuration, konfigurasi routing RIP pada router eagle.



4. Lihat konfigurasi routing RIP yang telah dibuat dengan perintah "Show running-config" pada mode user.



```
interface FastEthernet0/0
 ip address 172.21.10.10 255.255.255.0
 duplex auto
 speed auto
interface FastEthernet1/0
 no ip address
 duplex auto
 speed auto
 shutdown
interface Serial2/0
 ip address 172.21.1.1 255.255.255.0 clock rate 2000000
interface Serial3/0
ip address 172.21.2.1 255.255.255.0
 clock rate 2000000
interface FastEthernet4/0
no ip address
 shutdown
interface FastEthernet5/0
 no ip address
 shutdown
router rip
network 172.21.0.0
ip classless
ip flow-export version 9
```

Perhatikan konfigurasi pada bagian "Router RIP".

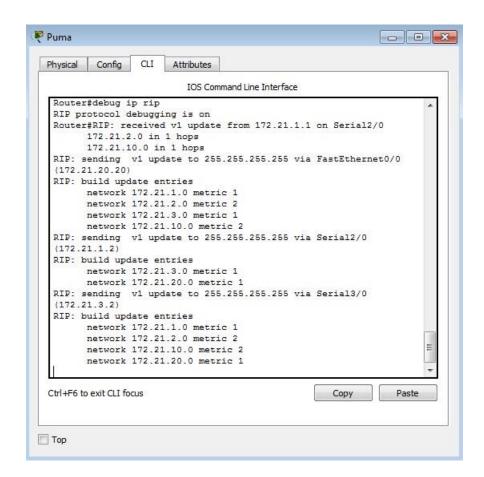
```
Router#debug ip rip
RIP protocol debugging is on
RIP: build update entries
     network 172.21.1.0 metric 1
      network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
      network 172.21.2.0 metric 1
      network 172.21.10.0 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
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
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
```

 Lihat proses update routing RIP pada router eagle dengan perintah "debug ip rip" pada mode user.

```
Router#
Router#debug ip rip
RIP protocol debugging is on
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
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
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
```

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





Dari PC leo lakukan trace ke PC aries.

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

Langkah pengoperasian

- -Masuk ke router puma
- -Masuk ke mode interface s0
- -Ketik shutdown

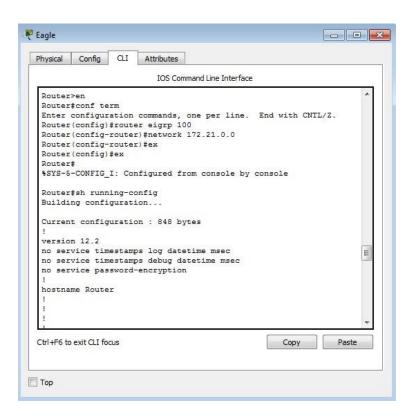
```
Router(config-if)#shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to
administratively down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,
changed state to down
RIP: received v1 update from 172.21.3.3 on Serial3/0
     172.21.1.0 in 16 hops
RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0
(172.21.20.20)
RIP: build update entries
     network 172.21.2.0 metric 16
     network 172.21.3.0 metric 1
     network 172.21.10.0 metric 16
     network 172.21.30.0 metric 2
RIP: sending v1 update to 255.255.255.255 via Serial3/0
(172.21.3.2)
RIP: build update entries
```

9. Dari PC leo lakukan trace ke PC aries

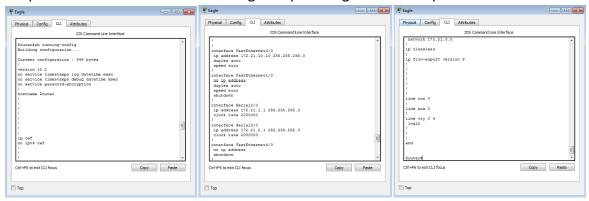
```
C:\>tracert 172.21.20.2
Tracing route to 172.21.20.2 over a maximum of 30 hops:
  1 0 ms
               0 ms
                         0 ms
                                   172.21.10.10
  2 1 ms
               2 ms
                         1 ms
                                   172.21.2.3
  3 0 ms
               2 ms
                         1 ms
                                   172.21.3.2
               0 ms
     0 ms
                         0 ms
                                   172.21.20.2
Trace complete.
C:\>
```

KEGIATAN 3 IGRP (Interior Gateway Routing Protocol)

3. Pada mode configuration, konfigurasi routing RIP pada router eagle.



4. Lihat konfigurasi routing EIGRP yang telah dibuat dengan perintah *"Show runningconfig"* pada mode user. Perhatikan konfigurasi pada bagian *"router rip"*



5. Lihat proses transaksi routing EIGRP pada router eagle denganperintah "debug EIGRP transactions" pada mode user. Tunggu beberapa saat untuk melihat informasi transaksi routing EIGRP yang terjadi.

```
EIGRP: Sending HELLO on Serial2/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
EIGRP: Sending HELLO on FastEthernet0/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
EIGRP: Sending HELLO on Serial3/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
EIGRP: Sending HELLO on Serial2/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
EIGRP: Sending HELLO on FastEthernet0/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
EIGRP: Sending HELLO on Serial3/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
EIGRP: Sending HELLO on Serial2/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
EIGRP: Sending HELLO on FastEthernet0/0
 AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0
```

6. Lihat proses transaksi routing EIGRP pada router eagle dengan perintah "debug ip eigrp transasctions" pada mode user. Tunggu beberapa saat untuk melihat informasi transaksi routing EIGRP yang terjadi.

Catatan: Hasil tampilan perintah "debug ipeigrp transactions" memperlihatkan informasi update routing EIGRP secara detail. Untuk melihat informasi update routing EIGRP secara lebih ringkas digunakan perintah "debug ip eigrp events. (dengan lebih dahulu menonaktifkan "debug ip eigrp transactions").

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

Router Puma:

Konfigurasi routing EIGRP pada router puma :

```
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
```

Melihat konfigurasi routing EIGRP yang telah dibuat.

 Melihat proses transaksi routing EIGRP pada router puma.

Router Tiger:

· Konfigurasi routing EIGRP pada router tiger.

```
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 routing EIGRP yang telah dibuat.

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

Current configuration: 775 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
!
!
!
!--More--
```

 Melihat proses transaksi routing EIGRP pada router tiger.

```
Router#debug eigrp packets
EIGRP Packets debugging is on
   (UPDATE, REQUEST, QUERY, REPLY, HELLO, ACK)
Router#
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 Serial3/0
   AS 100, Flags 0x0, Seq 11/0 idbQ 0/0 iidbQ 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 FastEthernet0/0
   AS 100, Flags 0x0, Seq 11/0 idbQ 0/0 iidbQ un/rely 0/0
```

8. Dari PC Leo lakukan trace ke PC aries

```
Physical Config Desktop Programming Attributes

Command Prompt

X

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

Trace complete.

C:\>
C:\>
C:\>
```

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

Langkah pengoperasian:

- -Masuk ke router puma
- -Masuk mode interface s0
- -Ketik shutdown

```
Router#no debug eigrp packets
EIGRP Packets debugging is off
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
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
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.1.1 (Serial2/0)
is down: interface down
```

10. 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 ms
               0 ms
                         0 ms
                                   172.21.10.10
  2 1 ms
              1 ms
                        0 ms
                                  172.21.2.3
                      0 ms
                                   172.21.3.2
172.21.20.2
    1 ms
               2 ms
    1 ms
               0 ms
                         0 ms
Trace complete.
C:\>
```