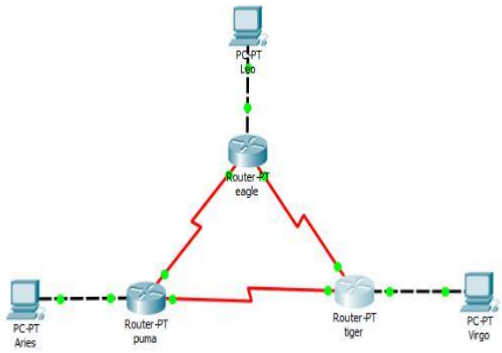
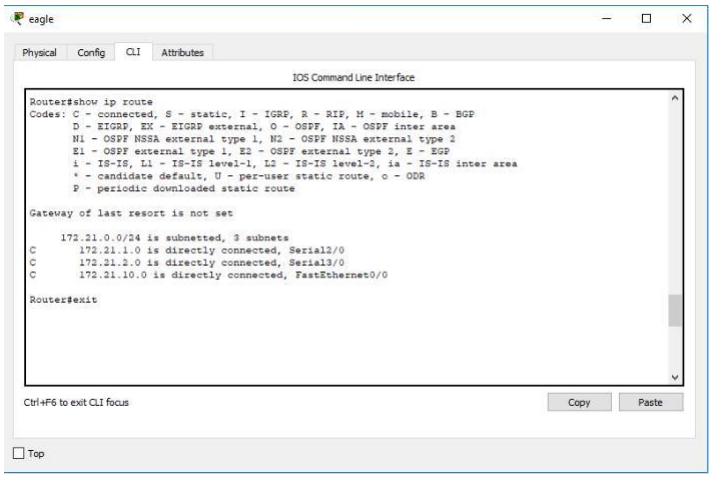
Kegiatan 1. Static routing

1.Rancangan Jaringan

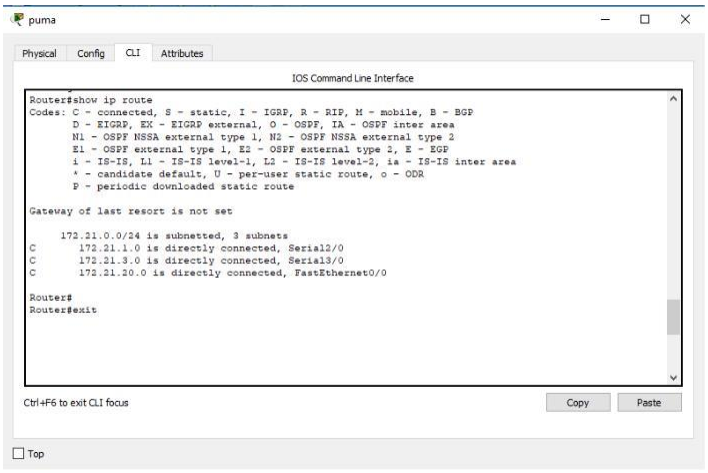


2. Show ip route

eagle

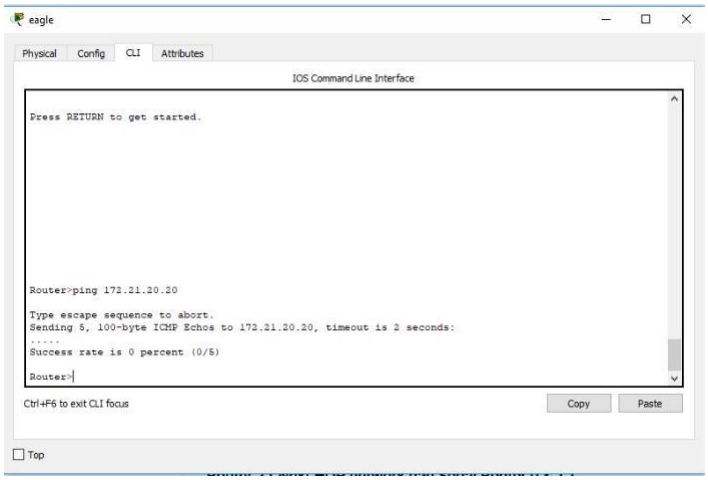


puma

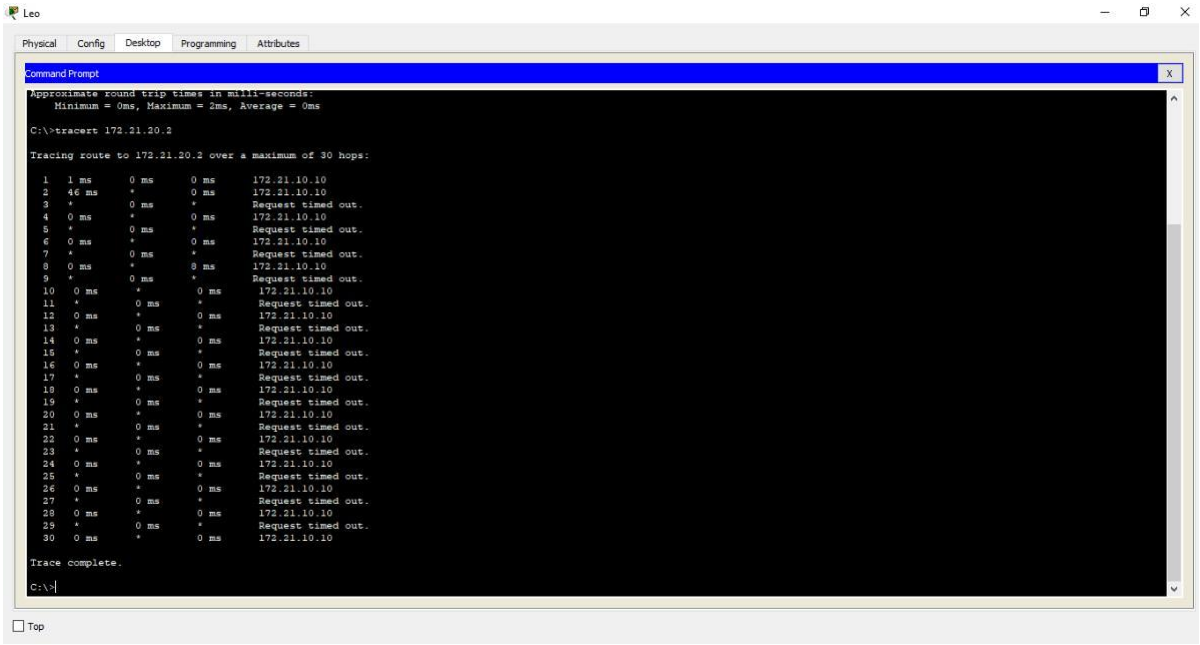


tiger

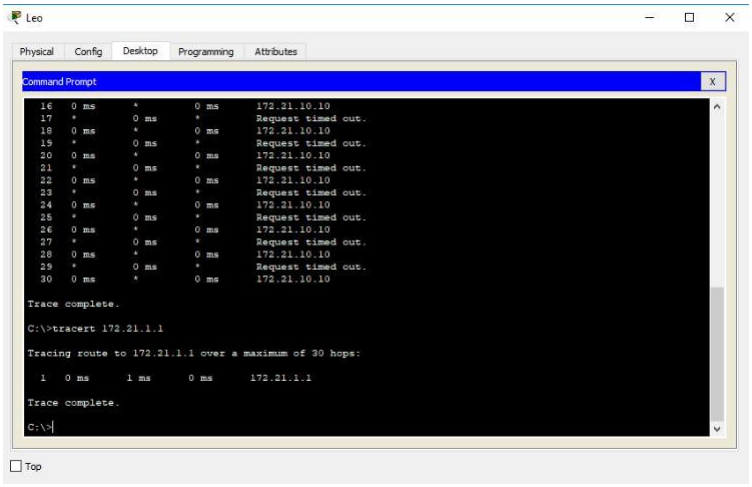
3. Melakuka ping dari router eagle ke router puma



4. Lakukan trace dari PC leo ke PC aries



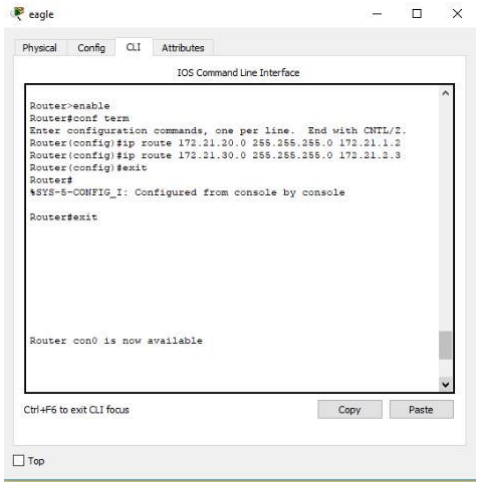
5. Lakukan trace dari PC loe ke router eagle



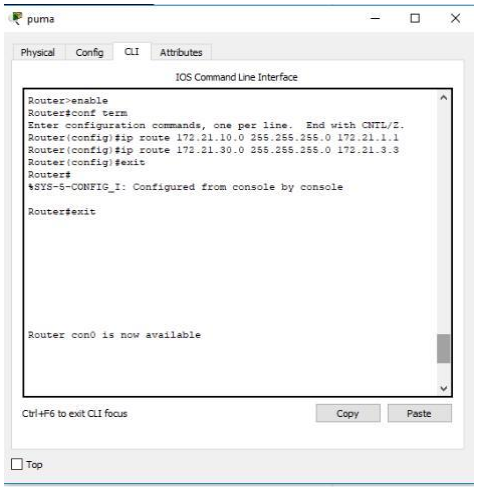
Pada langkah no 3-5 belum ada ROUTING STATIC dan kita harus melakukan konfigurasi STATIC ROUTING dengan menembakkan next hob dan network pada router

6. Konfigurasi static routing pada masing masing router

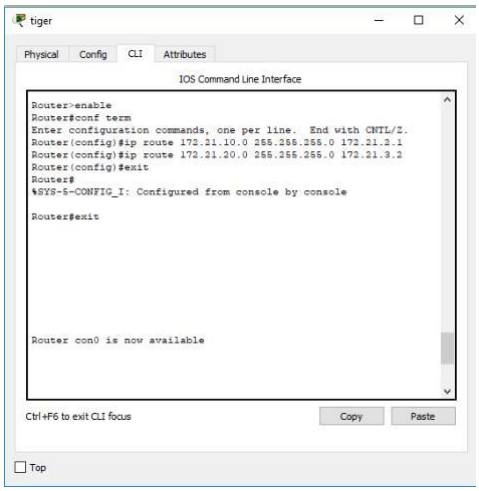
Eagle



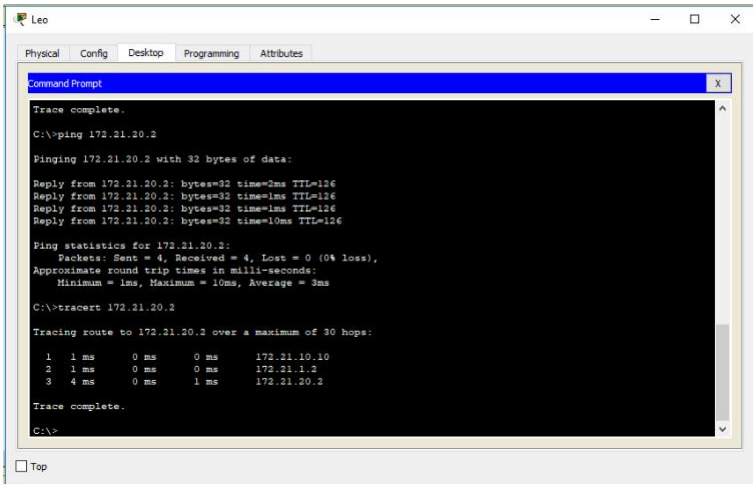
Puma

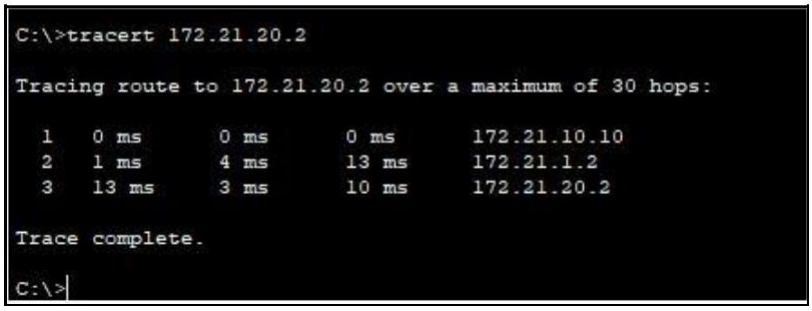


Tiger



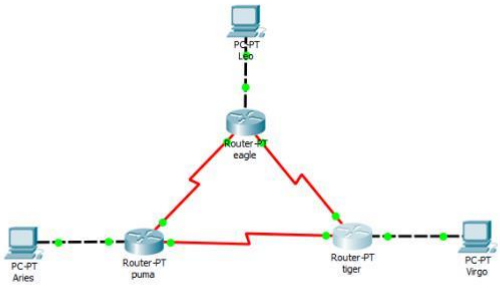
7. Lakukan ping dari PC leo ke PC aries dan tracert dari leo ke aries



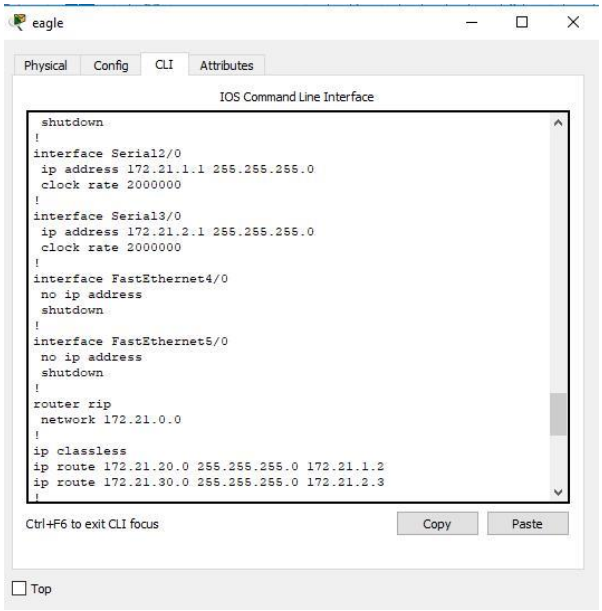


Kegiatan 2. RIP(Routing Information Protocol)

1. Rancangan Jaringan



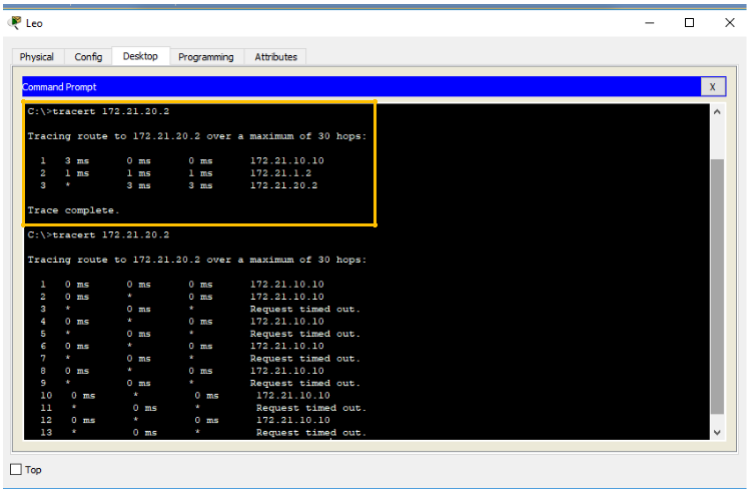
2. Nomor alamat jaringan pada konfigurasi routing RIP



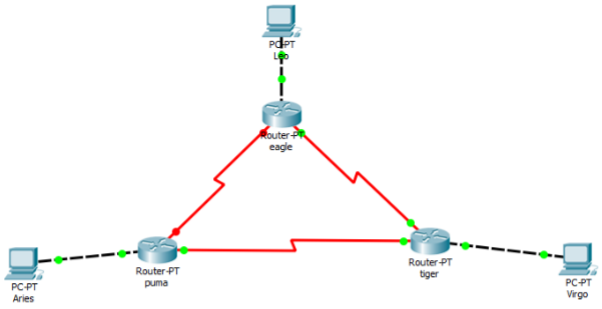
Nomor alamat route RIP adalah 172.21.0.0

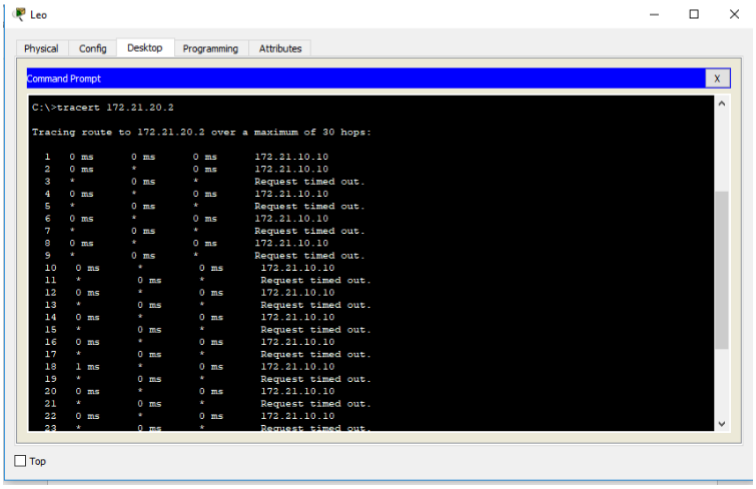
3. Melakukan perintah “debug ip rip” pada route eagle

4. Trace dari PC leo ke PC aries sebelum memutus router eagle ke router puma



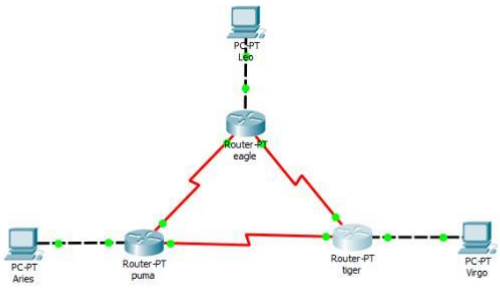
5. Trace dari PC leo ke PC aries setelah diputus antara router eagle ke router puma





Kegiatan 3. IGRP

1. Rancangan jaringan



2. Konfigurasi routing RIP pada router eagle.

```
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)#ex
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

3. Lakukan perintah "show running-config" pada mode user.

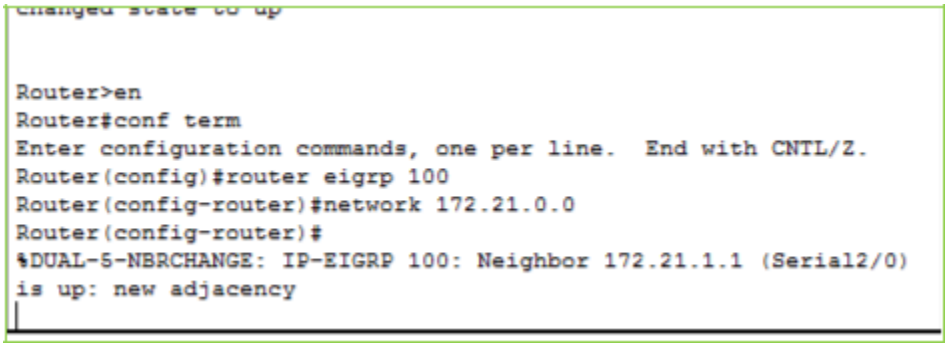
```
Router#show running-config
Building configuration...

Current configuration : 815 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--
```

4. Lakukan perintah "debug ip igrp transactions" pada mode user dan di router eagle. Tunggu beberapa saat untuk melihat informasi transaksi routing EIGRP yang terjadi.

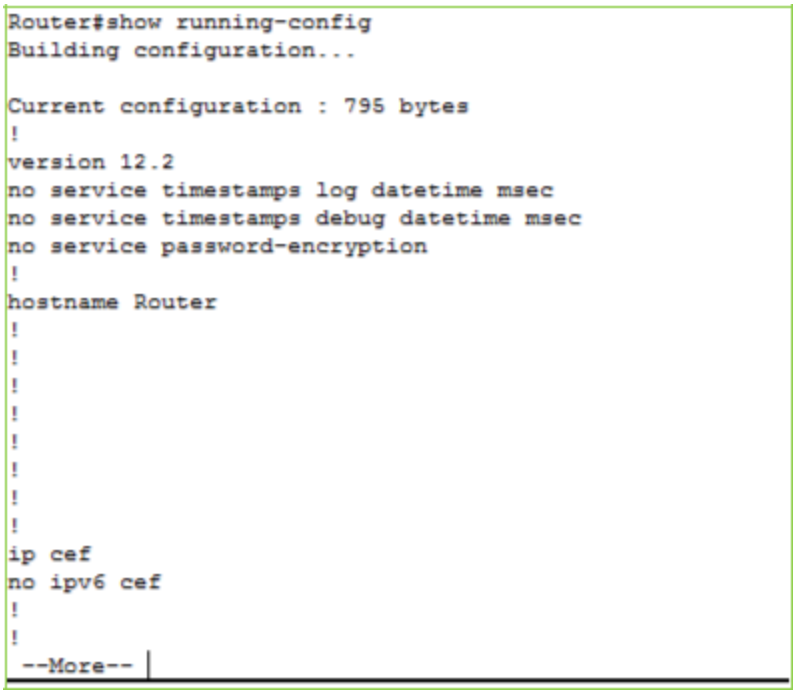
6. Melakukan konfigurasi routing EIGRP pada router puma dan tiger

Router Puma :

- Konfigurasi routing EIGRP pada router puma :



- Melihat konfigurasi routing EIGRP yang telah dibuat



- Melihat proses transaksi routing EIGRP pada router puma.

```
Router#debug eigrp packets
EIGRP Packets debugging is on
    (UPDATE, REQUEST, QUERY, REPLY, HELLO, ACK )
Router#
EIGRP: Received HELLO on Serial2/0 nbr 172.21.1.1
  AS 100, Flags 0x0, Seq 6/0 idbQ 0/0

EIGRP: Sending HELLO on FastEthernet0/0
  AS 100, Flags 0x0, Seq 6/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
  AS 100, Flags 0x0, Seq 6/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on Serial2/0
  AS 100, Flags 0x0, Seq 6/0 idbQ 0/0 iidbQ un/rely 0/0
```

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
```

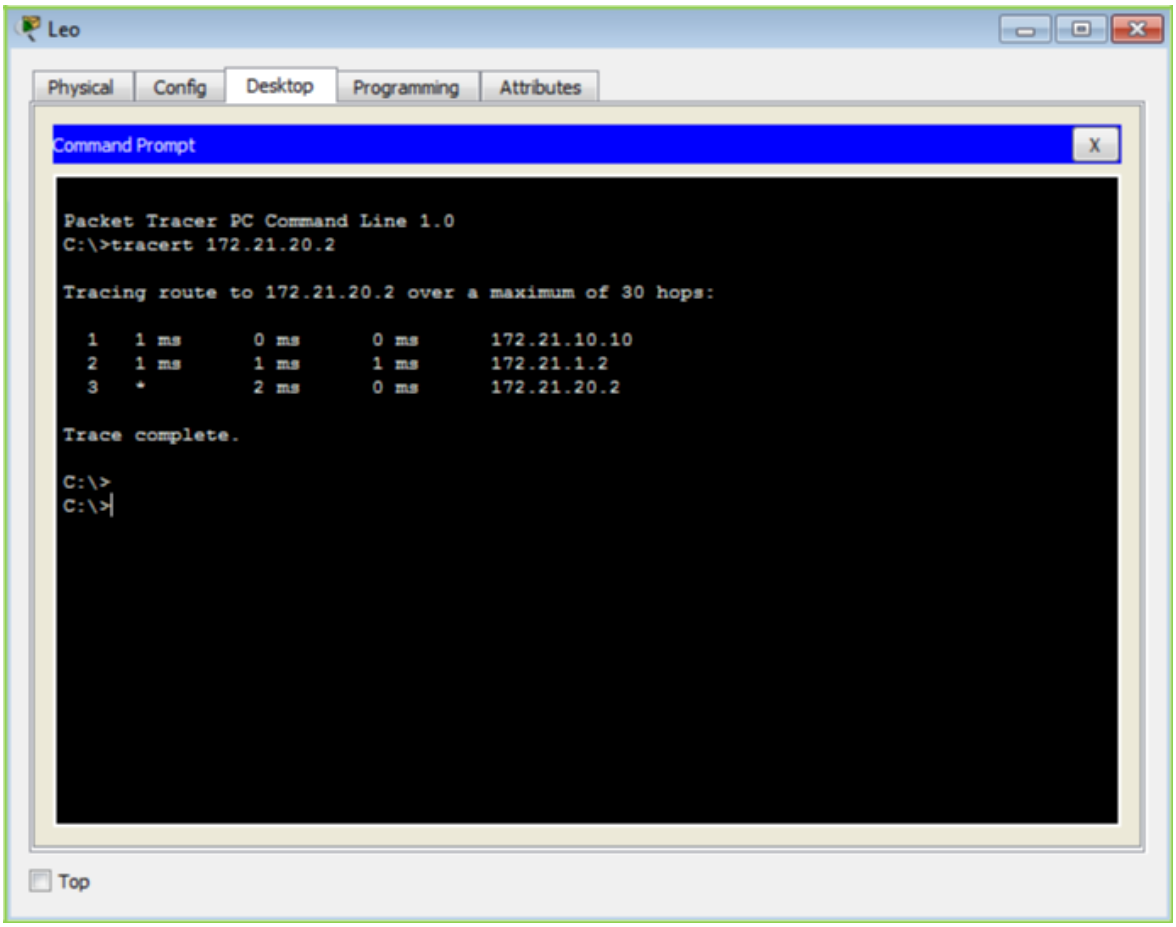
- Melihat konfigurasi routing EIGRP yang telah dibuat.

```
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
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
 --More--
```

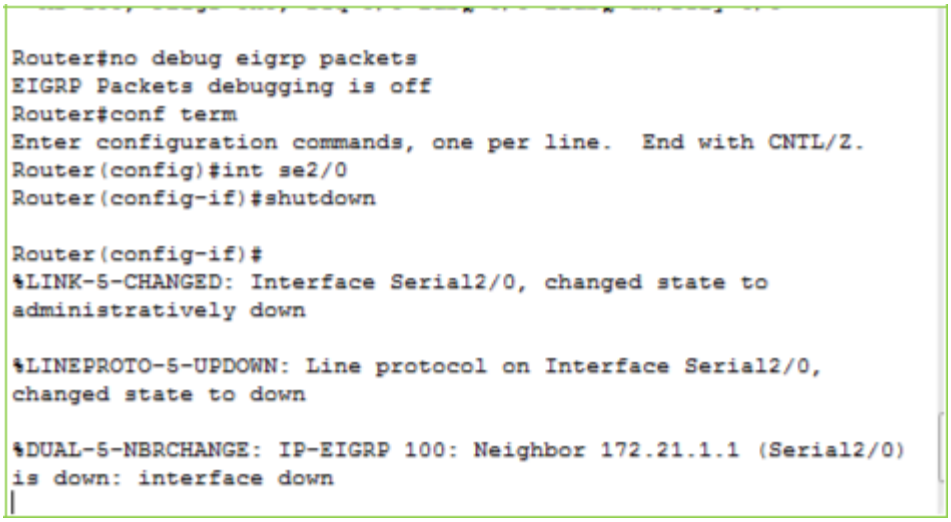
- Melihat proses transaksi routing EIGRP pada router tiger.

```
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
```

7. Melakukan tracert dari PC Leo ke PC aries



8. Membuat hubungan antara router eagle dan puma terputus



9. Melakukan trace dari PC leo ke PC Aries.