Nama : Chandika Aulia

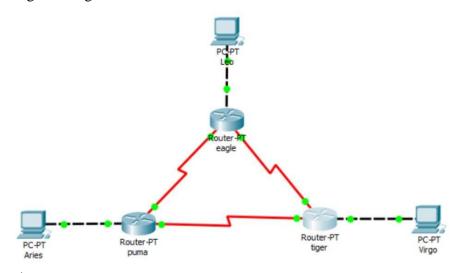
NIM : L200180097

Kelas : C

# Praktikum Jarkom modul 7

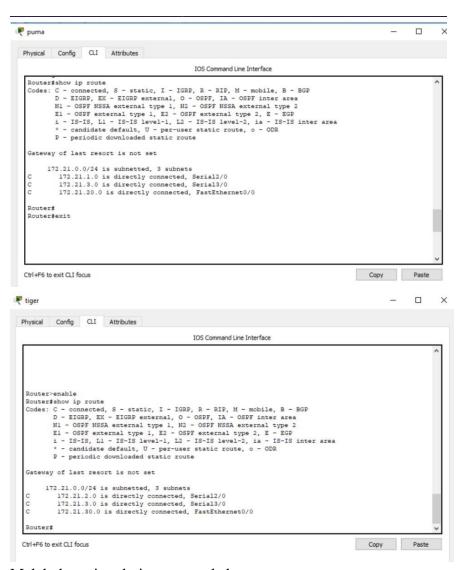
## Kegiatan 1. Static routing

## 1. Rancangan Jaringan



### 2. Show ip route





3. Melakukan ping dari router eagle ke router puma

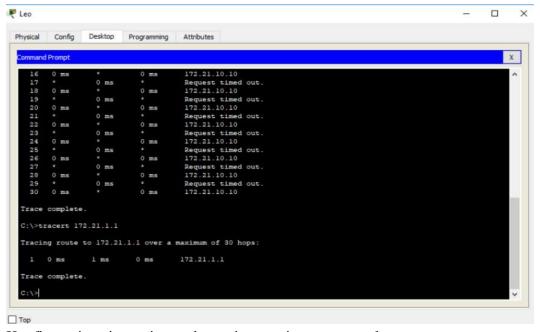


4. Lakukan trace dari PC leo ke PC aries

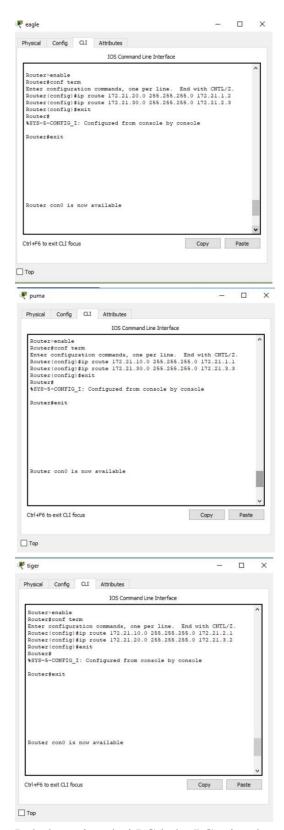
```
Physical Config Decktop Programming Attributes

Command Form State State
```

5. Lakukan trace dari PC leo ke router eagle

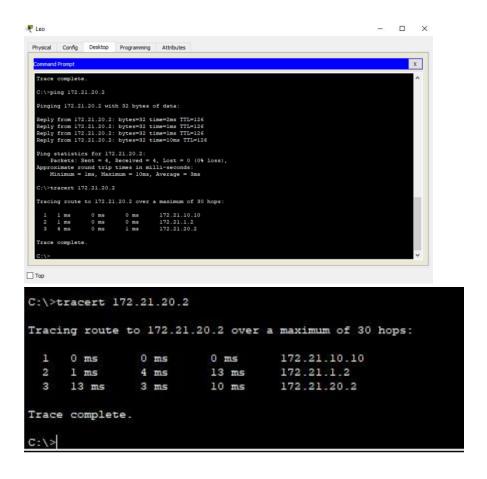


6. Konfigurasi static routing pada masing-masing router eagle



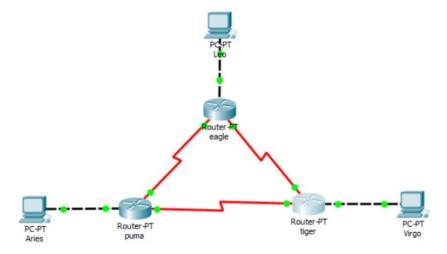
7. Lakukan ping dari PC le ke PC aries dan

trancert dari leo ke aries



Kegiatan 2. RIP (Routing Information Protocol)

## 1. Rancangan Jaringan



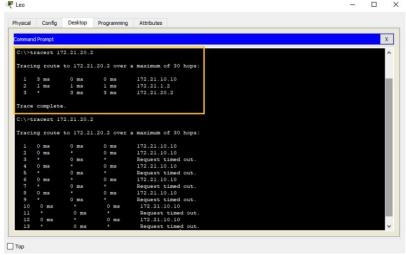
2. Nomor alamat jaringan pada konfigurasi routing RIP



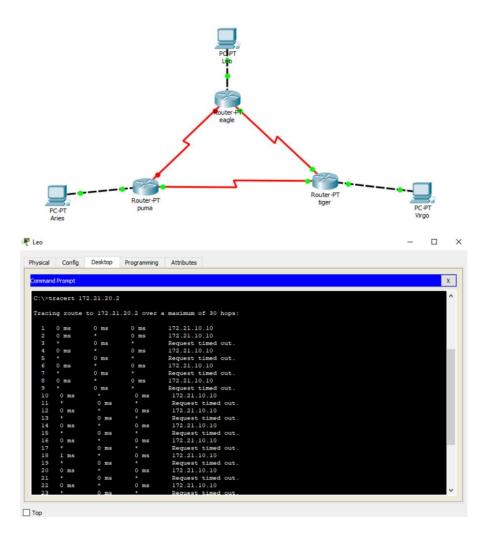
3. Melakukan perintah "debug ip rip" pada route cagle



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

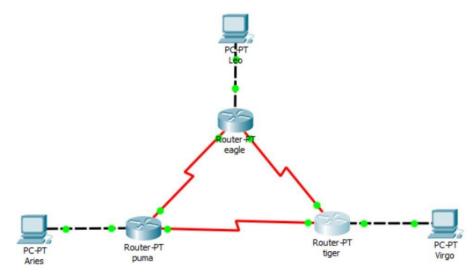


5. Trace dari PC leo ke PC aries setelah diputus antara router eagle ke router puma



# 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

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

```
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
```

- Melakukan konfigurasi routing EIGRP pada router puma dan tiger 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 di buat

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

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 di buat

Melihat proses transaksi routing EIGRP pada router tiger

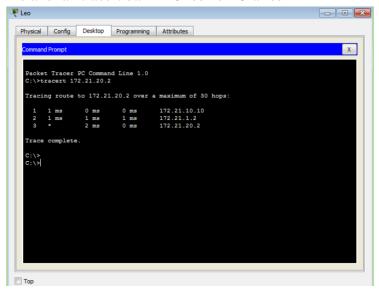
```
Router#debug eigrp packets
EIGRP Packets debugging is on
(UPDATE, REQUEST, QUERY, REPLY, HELLO, ACK)
Router#
EIGRP: Received HELLO on Serial2/0 nbr 172.21.2.1
AS 100, Flags 0x0, Seq 9/0 idbQ 0/0

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
```

6. Melakukan tracert darin PC leo ke PC aries



7. Membuat hubungan antara router eagle dan puma terputus

```
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
```

8. Melakukan trace dari PC leo ke PC aries

Tr ce co+r@1ele