

Nama : Dwiky Nugraha

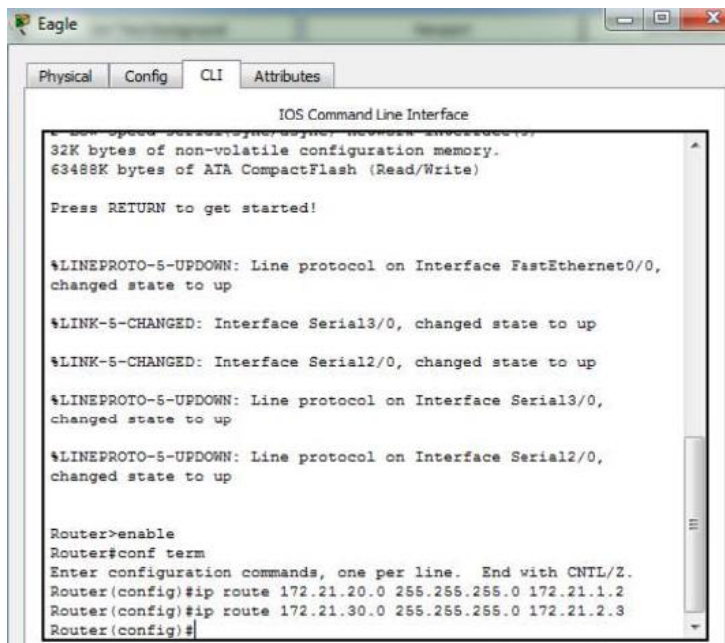
NIM : L200170154

Kelas : D

Modul : 7

Kegiatan 1

Tugas 11A

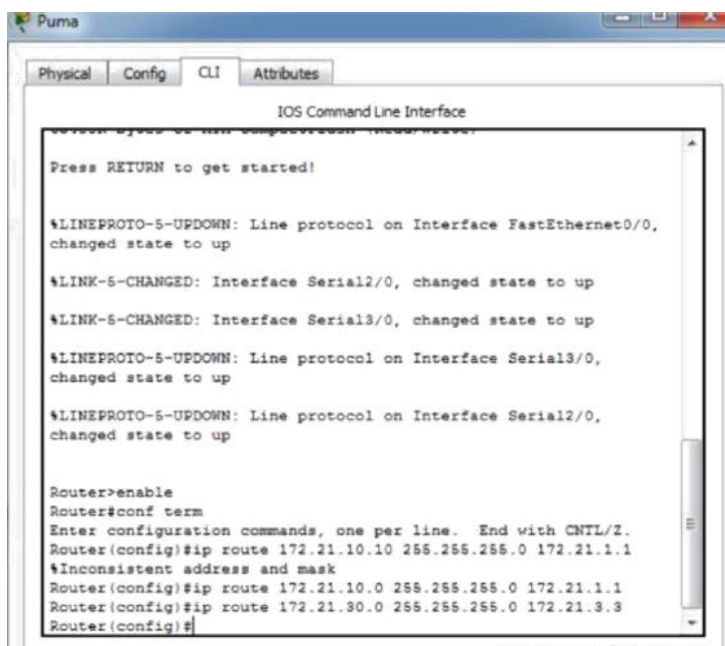


```
IOS Command Line Interface
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

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

Router>enable
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)#
```



```
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>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.10 255.255.255.0 172.21.1.1
%Inconsistent address and mask
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)#
```

```
Leo 172.21.10.1
Physical Config Desktop Programming Attributes
Command Prompt
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=1ms TTL=126
Reply from 172.21.20.2: bytes=32 time=3ms TTL=126
Reply from 172.21.20.2: bytes=32 time=3ms 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 = 1ms, Maximum = 3ms, Average = 2ms

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=2ms TTL=126
Reply from 172.21.20.2: bytes=32 time=2ms TTL=126
Reply from 172.21.20.2: bytes=32 time=3ms TTL=126
Reply from 172.21.20.2: bytes=32 time=3ms 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 = 2ms, Maximum = 3ms, Average = 2ms

C:\>
```

Tugas 12A

Iya, Hal ini dikarenakan telah dibuat peroutingan untuk data lewat melalui jalur yang mana.

Tugas 12B

1. Lakukan konfigurasi pada router eagle.
2. Lakukan konfigurasi pada PC leo dan ubah default gateway.
3. Lakukan routing pada masing-masing router sesuai dengan blok ip PC.
4. Lakukan pengecekan dengan cara ping.

Kegiatan 2

Tugas 4A

```
!
interface FastEthernet5/0
  no ip address
  shutdown
!
router rip
  network 172.21.0.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
  login
```

Tugas 4B

Karena pada 172.21.0.0 mencakup semua alamat jaringan.

Tugas 5A

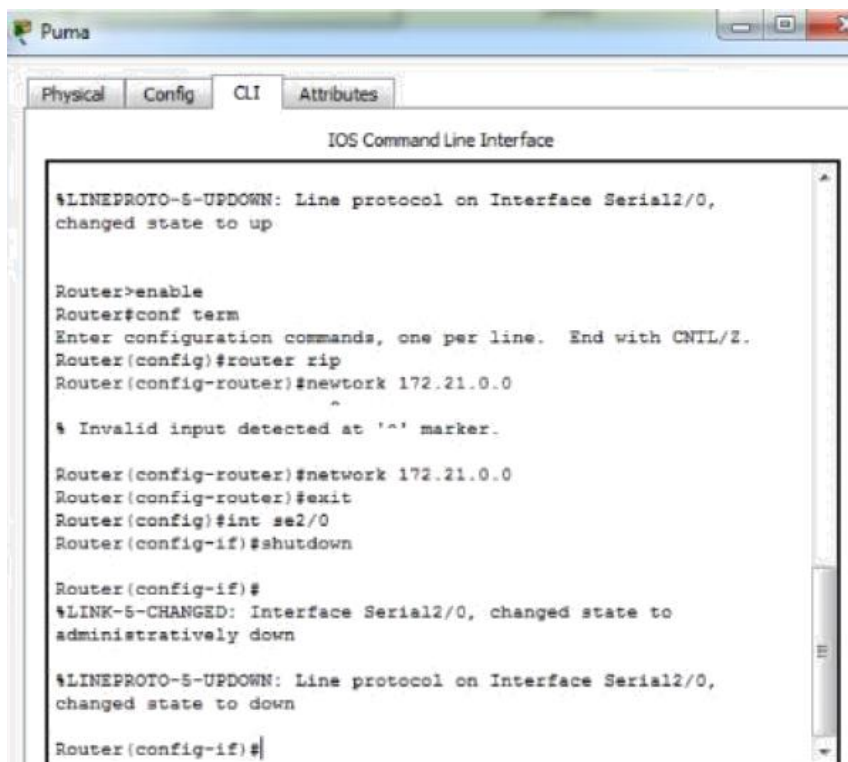
```
-----
Router#
Router#debug ip rip
RIP protocol debugging is on
Router#RIP: sending v1 update to 255.255.255.255 via
FastEthernet0/0 (172.21.10.10)
RIP: build update entries
  network 172.21.1.0 metric 1
  network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0
(172.21.1.1)
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

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
---
```

Tugas 6A

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

Tugas 6B

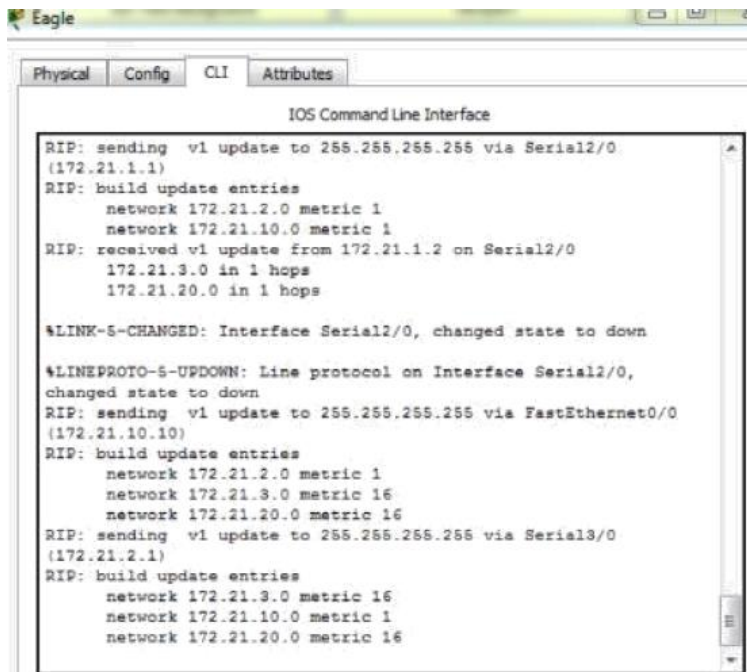


Tugas 6C

Tidak perlu. Hal tersebut karena network yang dipakai adalah 172.21.0.0 yang dimana masih dalam satu jaringan.

Tugas 8A

Routing otomatis di downkan dan dimana melalui serial 3/0 yang terjadi di mana hops juga berubah.



Tugas 9A

```
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
  4  0 ms      0 ms      0 ms      172.21.20.2

Trace complete.
```

```
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:

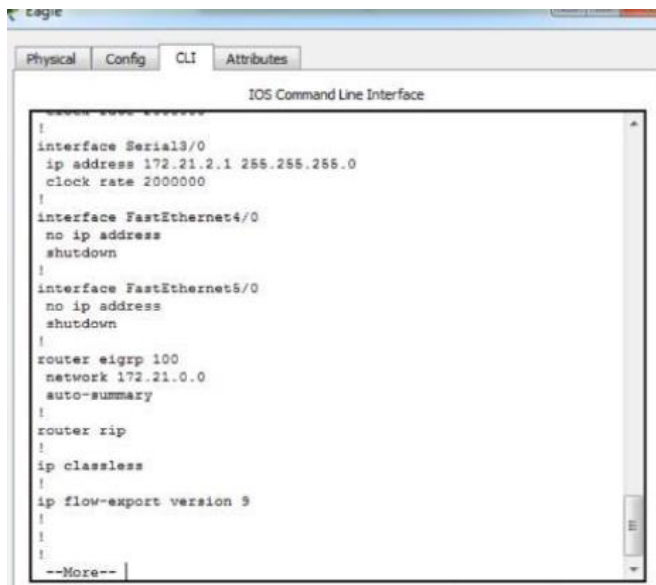
  1  0 ms      0 ms      0 ms      172.21.10.10
  2  2 ms      1 ms      1 ms      172.21.1.2
  3  *          0 ms      0 ms      172.21.20.2

Trace complete.
```

Dikarenakan hubungan di downkan maka hasil routing yang berawal dari dimulai menjadi berhenti dan menghasilkan RTO karena jaringan tidak terhubung.

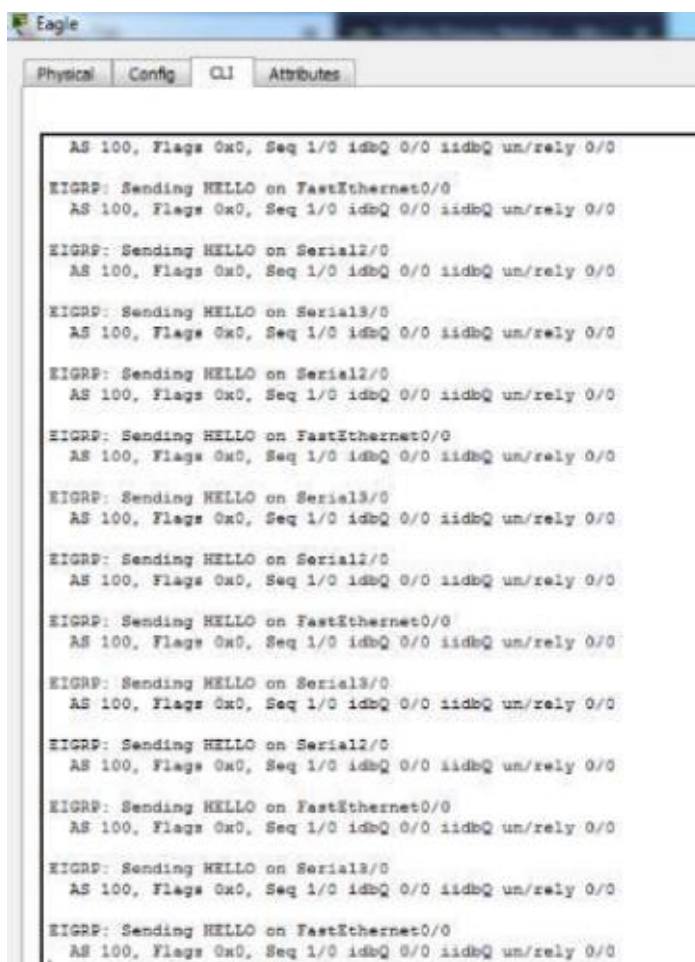
Kegiatan 3

Tugas 4A



Tugas 5A

Terjadi suatu transaksi yang mengiri tanda ataupun sapa untuk router lain dan komputer melalui fa dan serial.

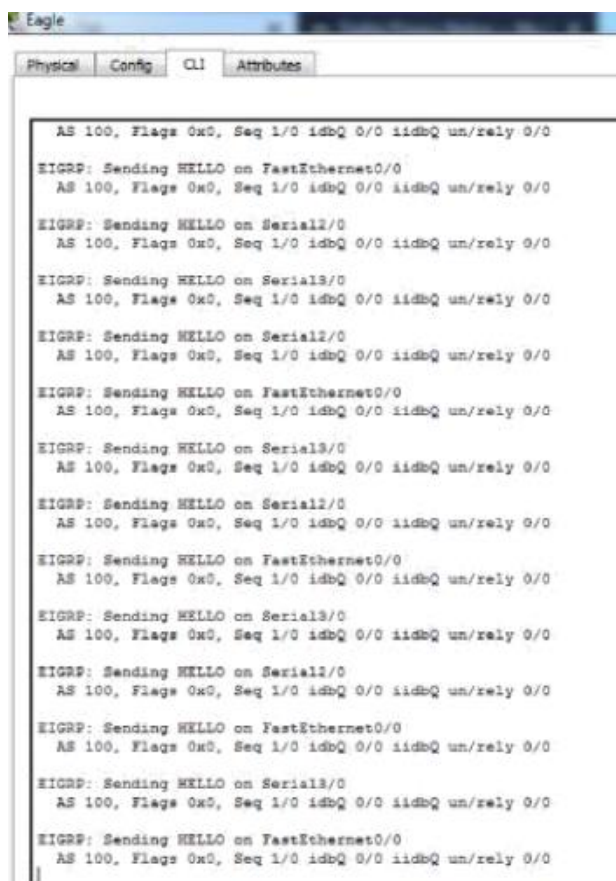


Tugas 6A

```
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
|
```

Tugas 7A



Tugas 7B

Setelah router puma di konfigurasi maka di router eagle otomatis meng-update kemudian mengirim ACK hingga proses selesai.

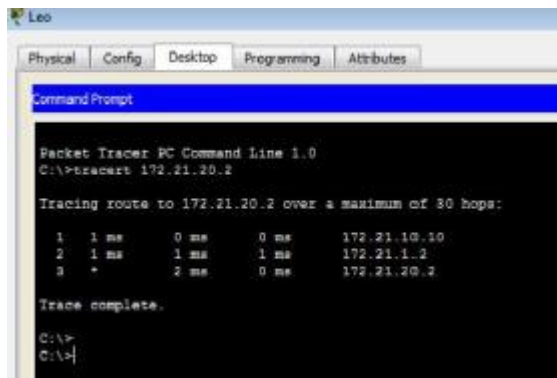
Tugas 7C

Tidak perlu. Karena tetap berada pada jaringan yang sama dan routing sudah dinamis.

Tugas 9A

Tugas 10A

Setelah router terputus waktu yang dibutuhkan untuk mengirim data menjadi berbeda. Juga terdapat perbedaan pada hops atau jalan yang dilalui.



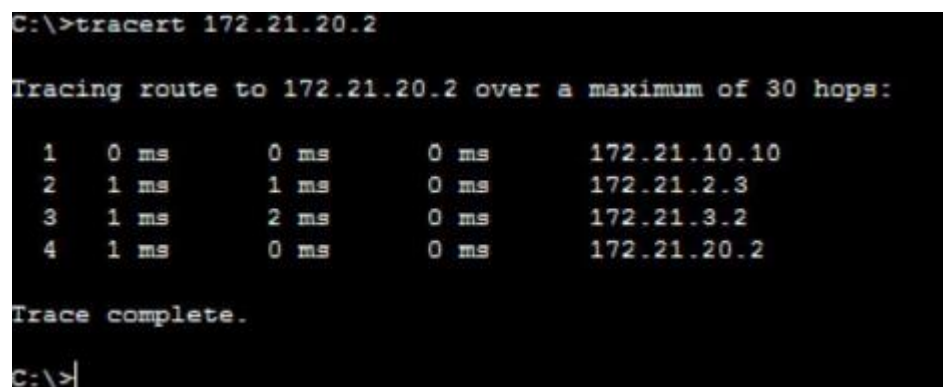
```
Leo
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

  1  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:\>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    1 ms    0 ms    172.21.2.3
  3  1 ms    2 ms    0 ms    172.21.3.2
  4  1 ms    0 ms    0 ms    172.21.20.2

Trace complete.

C:\>
```