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Modul 7

## Kegiatan 2 RIP (*Routing Information Protocol*)

### 1. Konfigurasi routing RIP pada router eagle

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

Ctrl+F6 to exit CLI focus

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### 2. Ketik show running config pada mode user

Tugas 4A : terdapat 1 router RIP yaitu 172.21.0.0

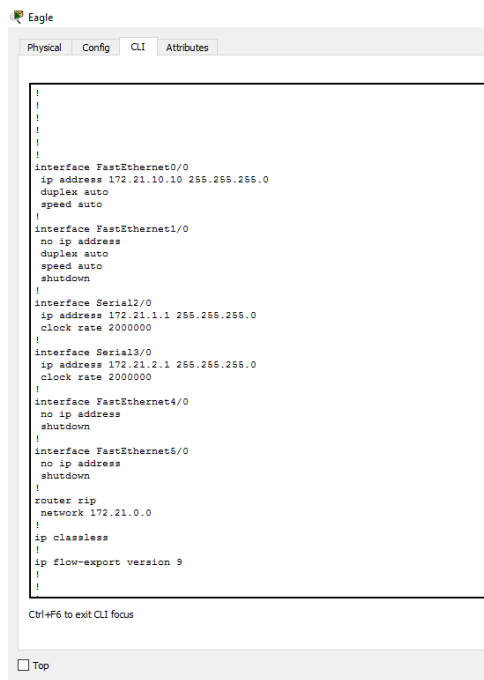
Tugas 4B : Dikarenakan pada pengoperasian hanya di tambahkan network 172.21.0.0

Eagle

Physical Config CLI Attributes

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

Current configuration : 795 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
.
```



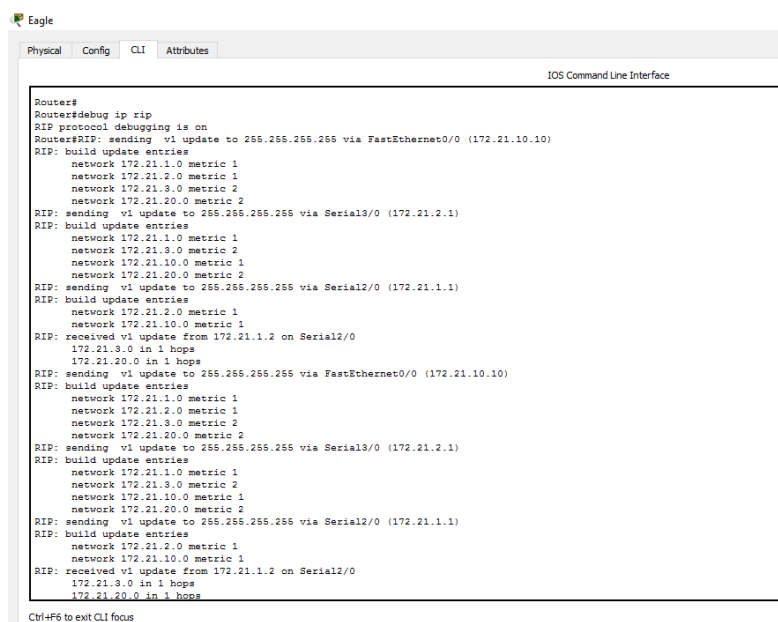
```
!
!
!
!
!
!
interface FastEthernet0/0
ip address 172.21.10.10 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
shutdown
!
interface Serial2/0
ip address 172.21.1.1 255.255.255.0
clock rate 2000000
!
interface Serial3/0
ip address 172.21.2.1 255.255.255.0
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
!
!
```

Ctrl+F6 to exit CLI focus

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### 3. ketik perintah debug ip rip

Tugas 5A pada proses update routing RIP, maka alamat jaringan yg terdaftar akan terus menerus tanpa berhenti.

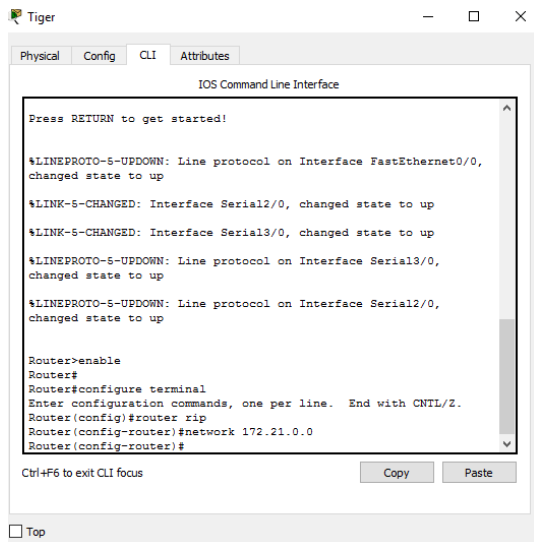
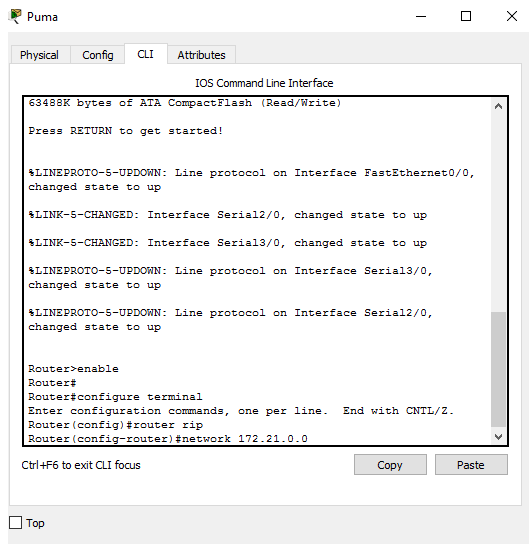


```
Router#
Router#debug ip rip
RIP protocol debugging is on
Router#RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0 (172.21.10.10)
RIP: build update entries
  network 172.21.1.0 metric 1
  network 172.21.2.0 metric 1
  network 172.21.3.0 metric 2
  network 172.21.20.0 metric 2
RIP: sending 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 172.21.3.0 metric 2
  network 172.21.10.0 metric 1
  network 172.21.20.0 metric 2
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: received v1 update from 172.21.1.2 on Serial2/0
  172.21.3.0 in 1 hops
  172.21.20.0 in 1 hops
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
  network 172.21.3.0 metric 2
  network 172.21.20.0 metric 2
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 172.21.3.0 metric 2
  network 172.21.10.0 metric 1
  network 172.21.20.0 metric 2
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: received v1 update from 172.21.1.2 on Serial2/0
  172.21.3.0 in 1 hops
  172.21.20.0 in 1 hops
```

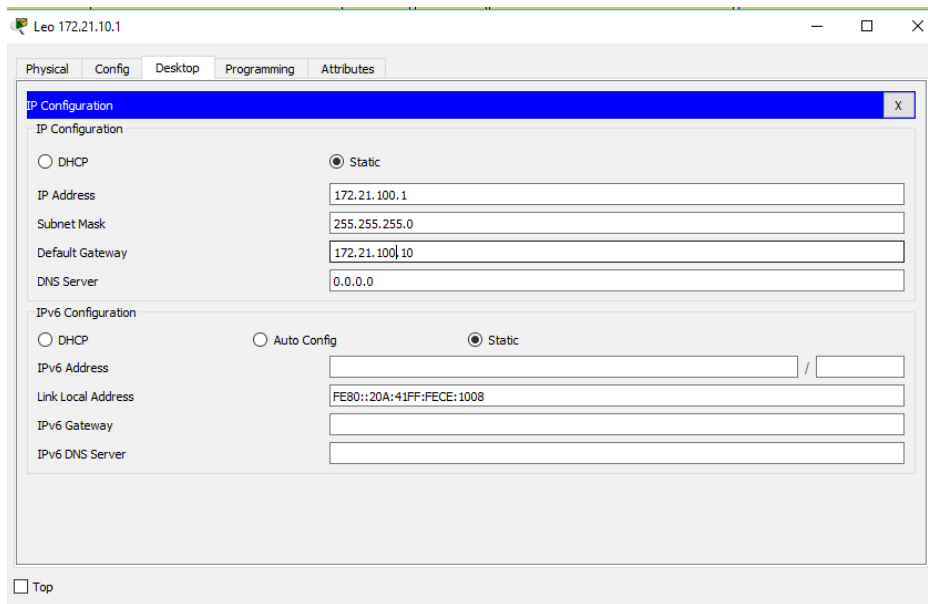
Ctrl+F6 to exit CLI focus

### 4. lakukan konfigurasi routing RIP pada router puma dan tiger

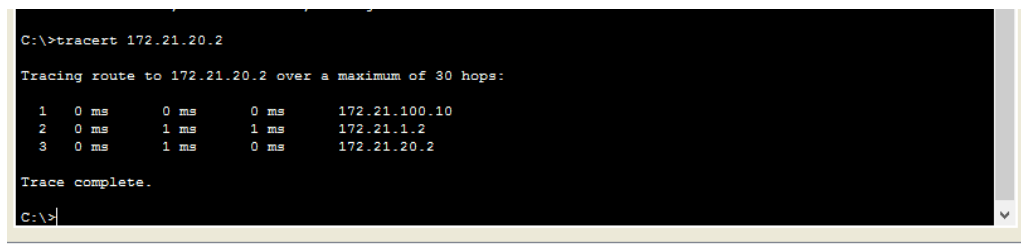
#### 6A . Tulislah konfigurasi routing RIP



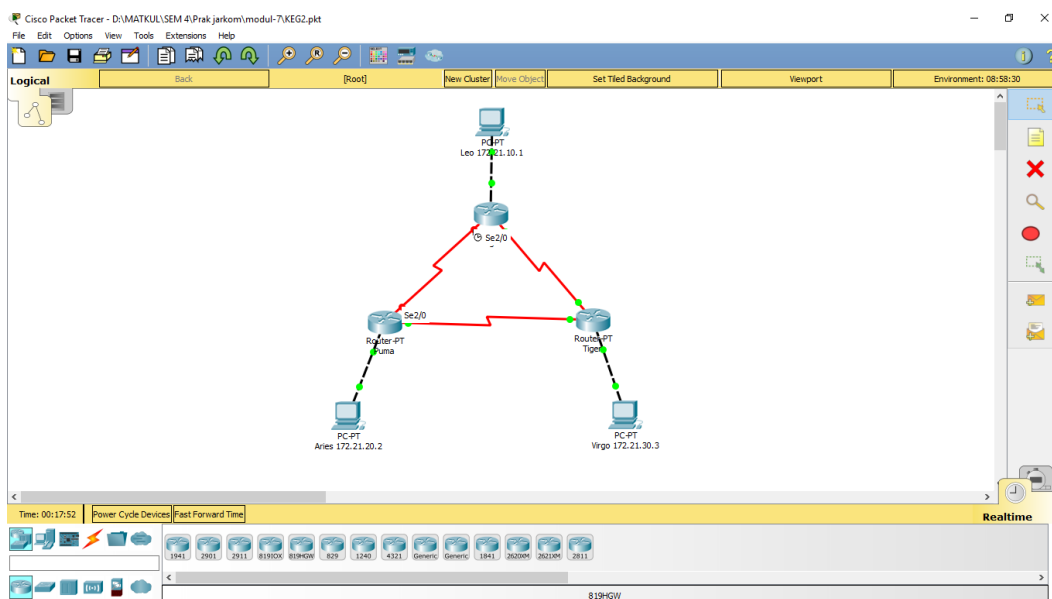
6C. Alamat jaringan pada segmen Leo di ubah dari 172.21.10.0 / 24 menjadi 172.21.100.0 / 24. Perlu di lakukan perubahan konfigurasi pada router eagle agar dapat tracert



4. Lakukan Trace dari PC leo ke PC aries

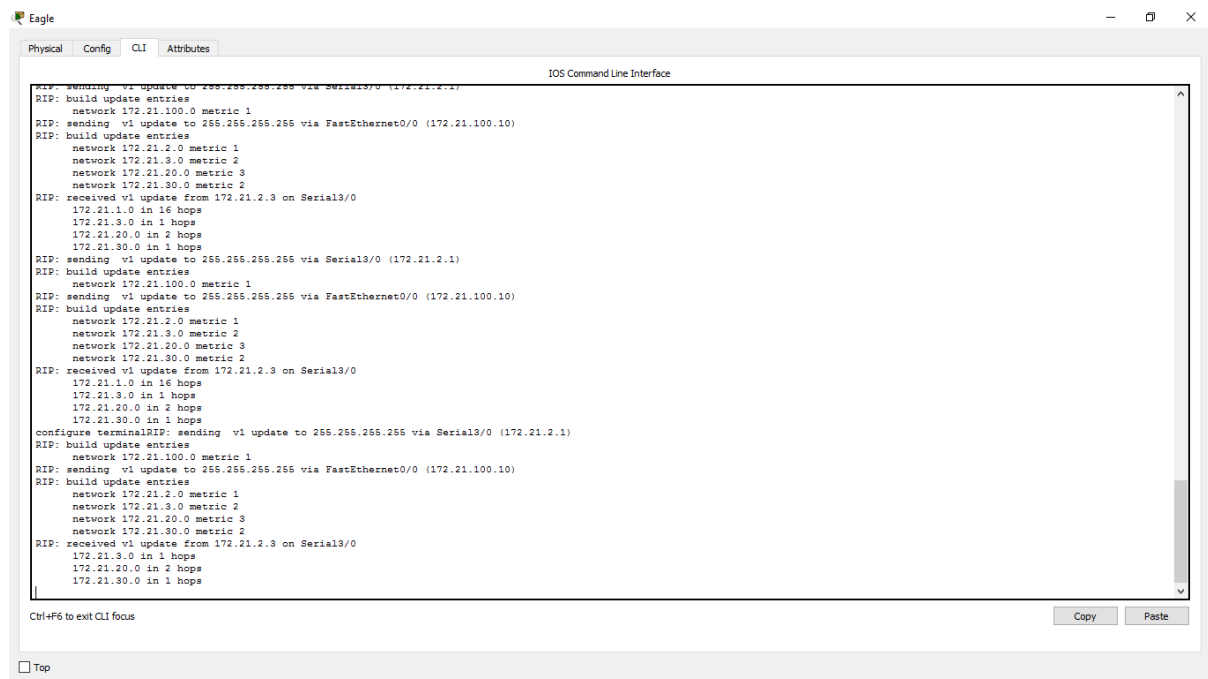


5. membuat hubungan antara router eagle dan puma



## 6. Melakukan “debug ip rip

Tugas 8A :*Subnet* 172.21.20.0 in 2 hops



The screenshot shows the Eagle network simulator window with the 'CLI' tab selected. The 'IOS Command Line Interface' displays the output of the 'debug ip rip' command. The output shows the router sending and receiving updates for the 172.21.20.0 network. The router is configured with the following networks and metrics:

- 172.21.100.0 metric 1
- 172.21.2.0 metric 1
- 172.21.3.0 metric 2
- 172.21.20.0 metric 3
- 172.21.30.0 metric 2

The output also shows the router receiving updates from 172.21.2.3 on Serial3/0. The router is configured with the following networks and metrics:

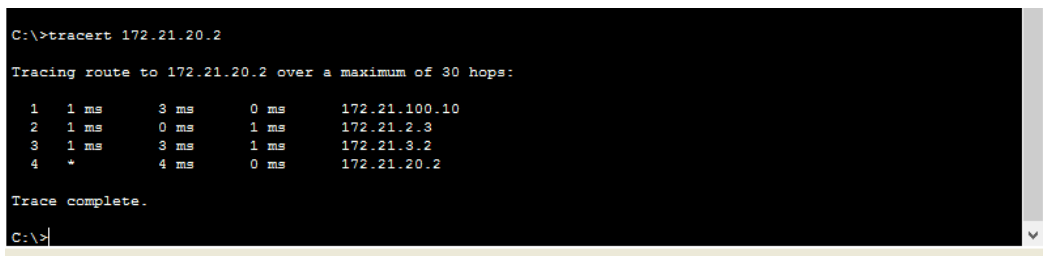
- 172.21.100.0 metric 1
- 172.21.2.0 metric 1
- 172.21.3.0 metric 2
- 172.21.20.0 metric 3
- 172.21.30.0 metric 2

The output also shows the router receiving updates from 172.21.2.3 on Serial3/0. The router is configured with the following networks and metrics:

- 172.21.100.0 metric 1
- 172.21.2.0 metric 1
- 172.21.3.0 metric 2
- 172.21.20.0 metric 3
- 172.21.30.0 metric 2

## 7. Tracert PC Leo ke PC Aries

Tugas 9A : Hasilnya akan tetap sama ketika langkah 8 belum dan sudah di jalankan



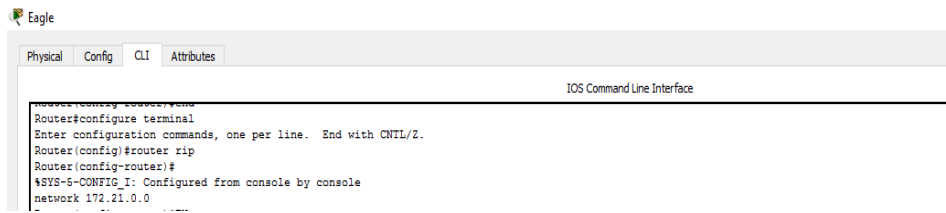
The screenshot shows a Windows command prompt window with the output of the 'tracert 172.21.20.2' command. The output shows the path from the source to the destination, with the following hops:

Hop	Source	Destination	Time
1	172.21.100.10	172.21.2.3	1 ms
2	172.21.2.3	172.21.3.2	1 ms
3	172.21.3.2	172.21.20.2	1 ms
4	*	172.21.20.2	4 ms

The output also shows the source IP address 172.21.100.10 and the destination IP address 172.21.20.2. The output also shows the time taken for each hop.

### Kegiatan 3 IGRP ( *Interior Gateway Routing Protocol*)

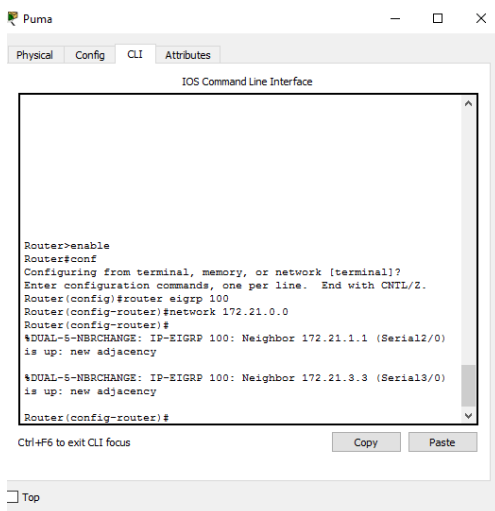
#### 1. Menambahkan alamat jaringan pada routing RIP 172.21.0.0

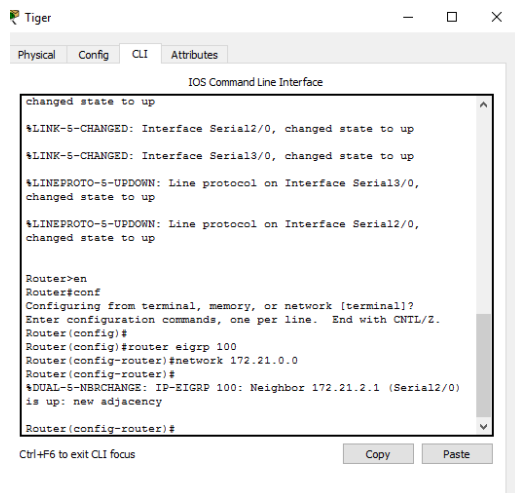


#### 2. Tugas 4A : Alamat jaringan yang terdaftar pada konfigurasi routing IGRP : 172.21.0.0

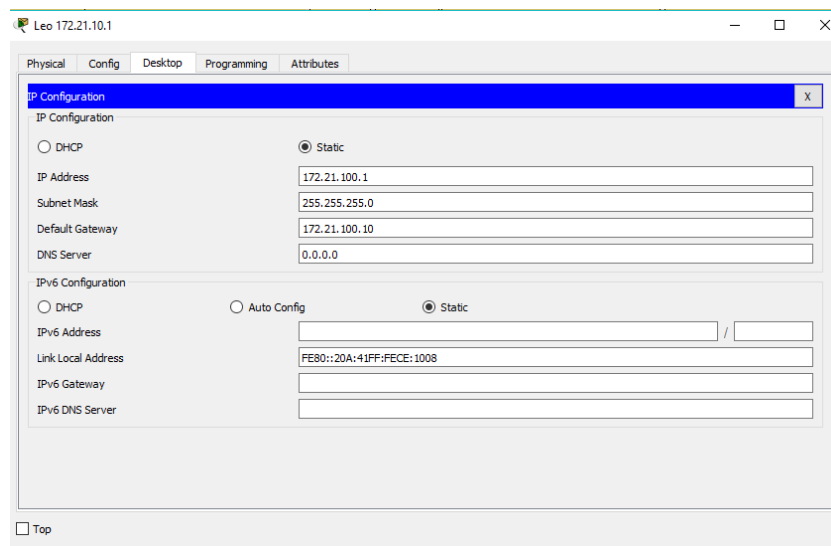
```
!
router eigrp 100
network 172.21.0.0
auto-summary
!
router rip
network 172.21.0.0
!
ip classless
!
ip flow-export version 9
!
```

#### 3. Tugas 7A dan 7B : langkah konfigurasi routing IGRP pada puma dan tiger

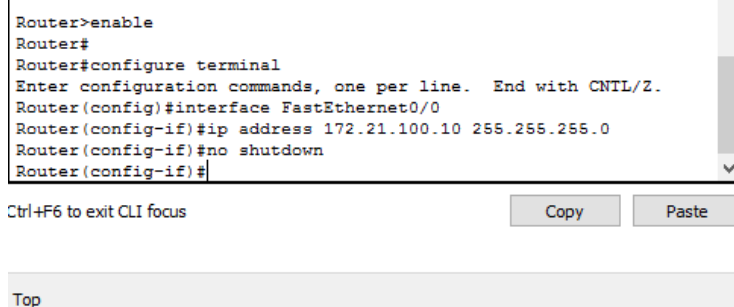




Tugas 7C : alamat jaringan pada segmen leo di ubah dari 172.21.10.0 / 24 menjadi 172.21.100.0 / 24



- Konfigurasi ip baru pada router eagle



- Konfigurasi ip baru pada router puma

```
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.100.0 255.255.255.0 172.21.1.1
Router(config)#
```

Ctrl+F6 to exit CLI focus

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- Konfigurasi ip baru pada router Tiger

```
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.100.0 255.255.255.0 172.21.2.1
Router(config)#
```

Ctrl+F6 to exit CLI focus

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#### 4. Ping dan tracert dari Leo ke Aries

Leo 172.21.10.1

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
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=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 = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 4ms, Average = 2ms

C:\>
```

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