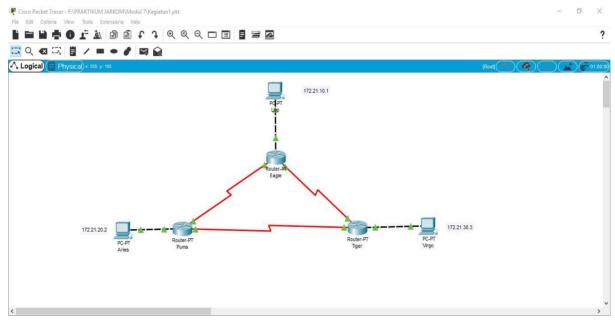
Name: Fikri Anggra Berlian

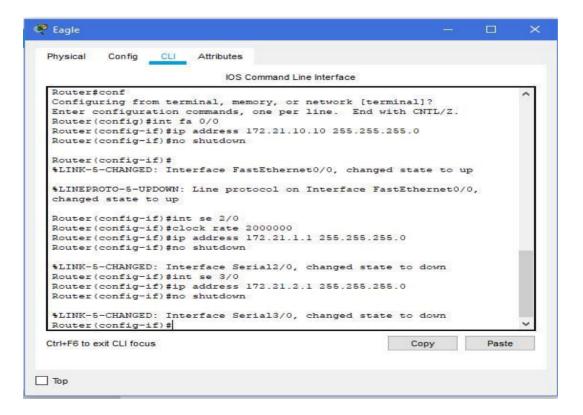
NIM: L200174090

Class: X

Modul 7 Static Routing



1. Konfigurasi masing masing interface pada tiap Router



IOS Command Line Interface

```
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: no
Press RETURN to get started!
Router>en
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z. Router(config) #int fa 0/0 Router(config-if) #ip address 172.21.20.20 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#int se 2/0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
Router(config-if) #int se 3/0
Router(config-if)#clo
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to
Router(config-if) #int se 3/0
Router(config-if) #clock rate 2000000
Router(config-if)#ip address 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)#
```

Ctrl+F6 to exit CLI focus

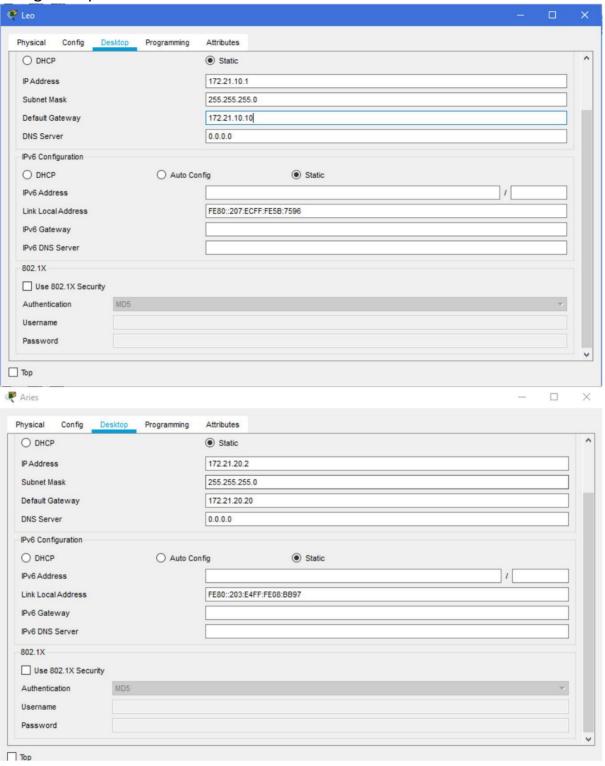
Physical Config CLI Attributes

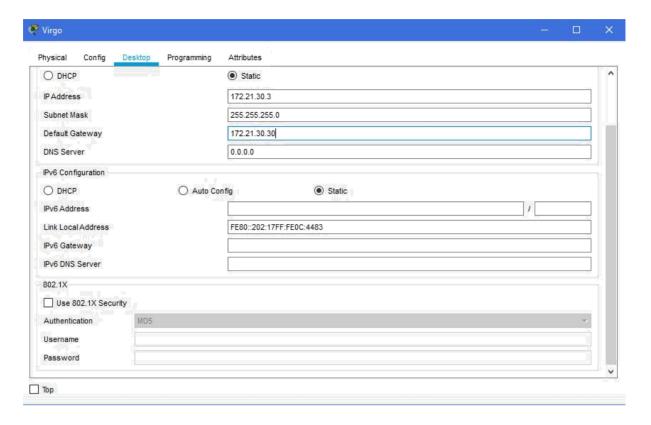
IOS Command Line Interface

```
Press RETURN to get started!
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip address 172.21.30.30 255.255.255.0 Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#int se 3/0
Router(config-if)#ip address 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
Router(config-if) #ip address 172.21.3.3 255.255.255.0 %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
Router(config-if)#int se 2/0
Router(config-if)#clock rate 2000000
Router(config-if) p address 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)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router(config-if)#
```

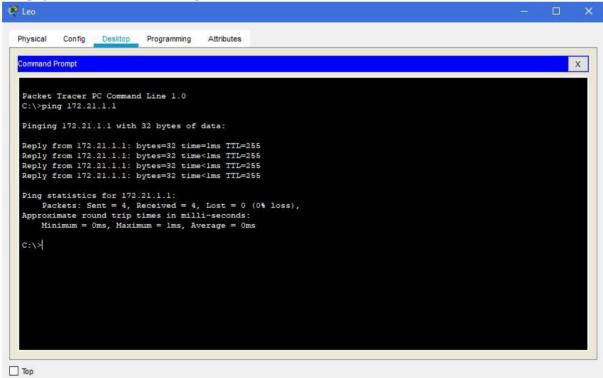
Ctrl+F6 to exit CLI focus

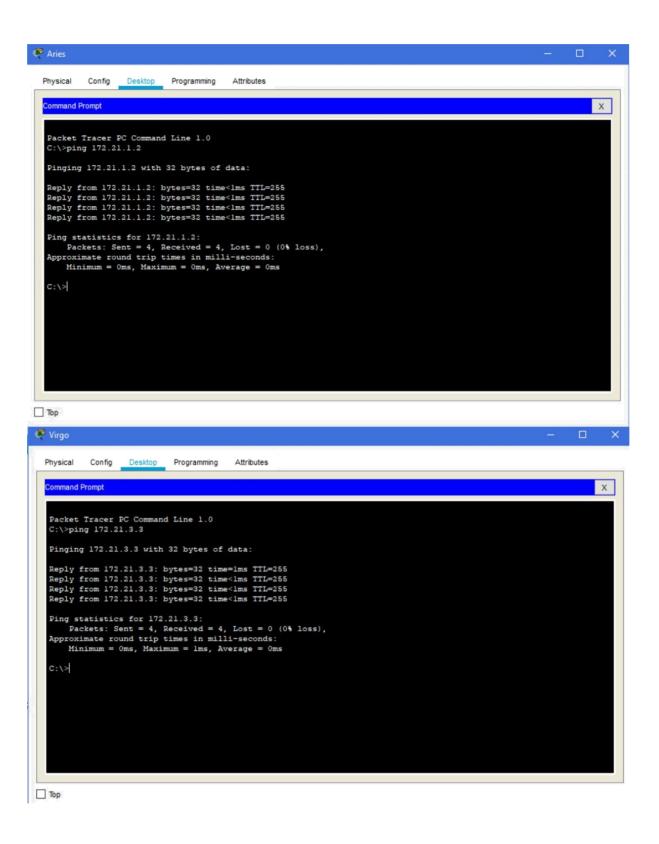
2. Konfigurasi ip PC

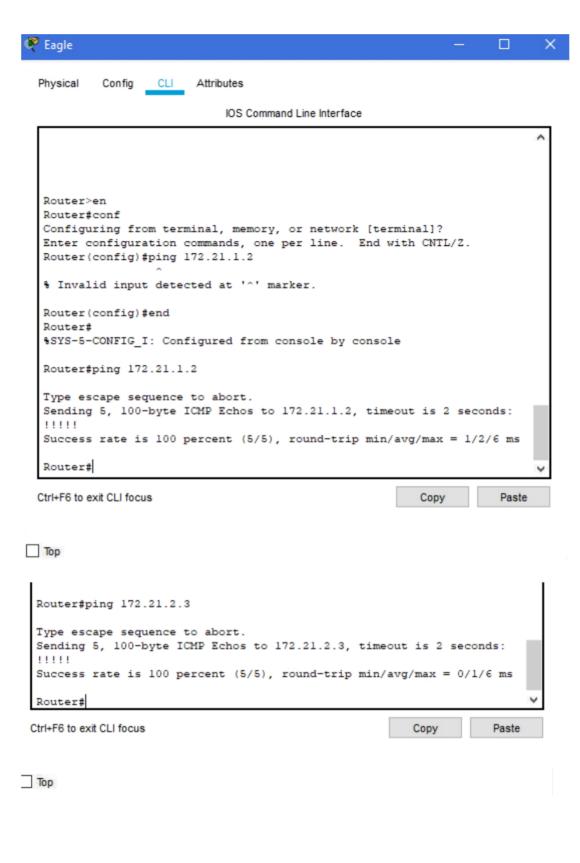




3. Pengujian kesesuain konfigurasi

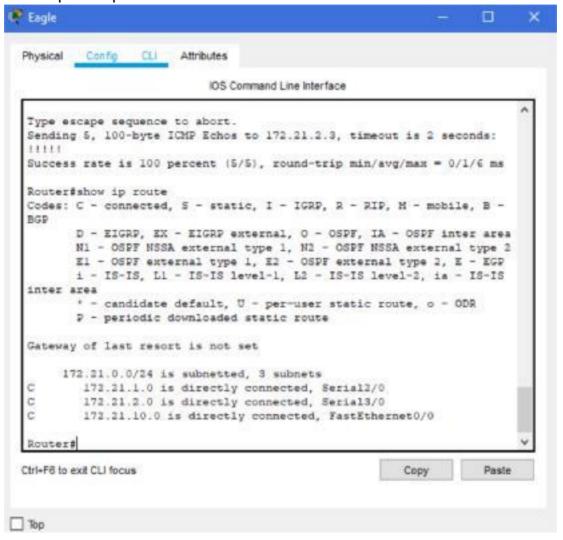








4. Menampilkan ip route





Physical Config CLI Attributes

IOS Command Line Interface

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.3.3, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/8 ms
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B -
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS
inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     172.21.0.0/24 is subnetted, 3 subnets
        172.21.1.0 is directly connected, Serial2/0
        172.21.3.0 is directly connected, Serial3/0
C
Ċ
        172.21.20.0 is directly connected, FastEthernet0/0
Router#
```

Ctrl+F6 to exit CLI focus

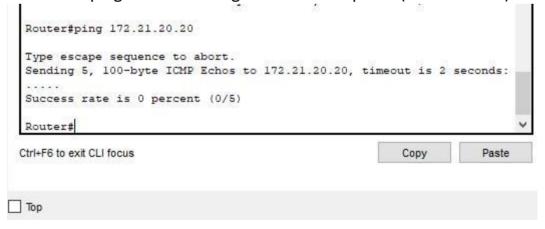
Top

Copy

Paste



5. Melakukan ping dari router eagle ke interface puma (172.21.20.20)

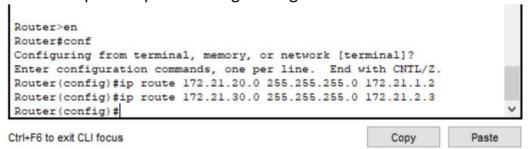


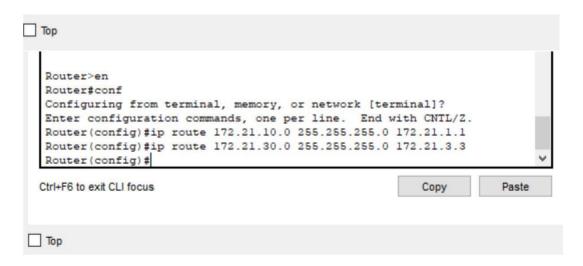
6. Trace PC leo ke PC aries

```
C:\>tracert 172.21.20.2
  Tracing route to 172.21.20.2 over a maximum of 30 hops:
                            0 ms
        131 ms
                  0 ms
                                      172.21.10.10
        0 ms
                            52 ms
                                     172.21.10.10
                  0 ms
                                     Request timed out.
        0 ms
                            13 ms
                                      172.21.10.10
    5
                  0 ms
                                      Request timed out.
                                      172.21.10.10
        0 ms
                            0 ms
  Control-C
   ^C
  C:\>
Top
```

7. Trace dari PC leo ke router eagle (172.21.1.1)

8. Melakukan ip route pada masing masing router





```
Router | Rou
```

9. Ping PC leo ke PC aries dan tracer PC leo ke PC aries

```
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=130ms TTL=126

Reply from 172.21.20.2: bytes=32 time=15ms 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),

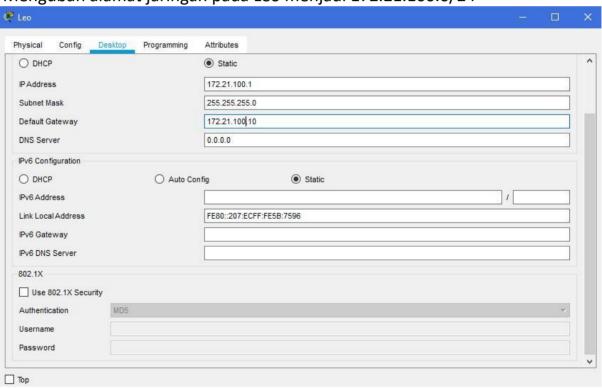
Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 130ms, Average = 48ms

C:\>
```

```
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
        1 ms
                  1 ms
                           4 ms
                                     172.21.1.2
    2
        0 ms
                  13 ms
                           0 ms
                                     172.21.20.2
  Trace complete.
Top
```

10. Mengubah alamat jaringan pada Leo menjadi 172.21.100.0/24



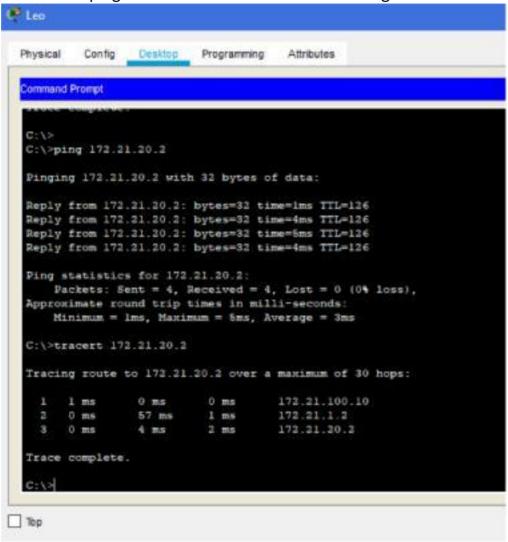
11. Konfigurasi ip baru pada router eagle

Router#en	
Router#conf	
Configuring from terminal, memory,	or network [terminal]?
Enter configuration commands, one	per line. End with CNTL/Z.
Router(config)#int fa 0/0	
Router(config-if) #ip address 172.2	1.100.10 255.255.255.0
Router(config-if) #no shutdown	
Router(config-if)#	
Ctrl+F6 to exit CLI focus	Сору
Тор	

12. Menambahkan konfigurasi ip route baru pada router puma dan tiger

Router#conf Configuring from terminal, memory, or network	[terminal]?	
Enter configuration commands, one per line.		
Router(config) #ip route 172.21.100.0 255.255.	255.0 172.21.1.1	
Router(config)#		
Ctrl+F6 to exit CLI focus	Copy	Paste
T.,		
Тор		
Router>en		
Router#conf		
Configuring from terminal, memory, or network	[terminal]?	
Enter configuration commands, one per line. E		
Router(config) #ip route 172.21.100.0 255.255.2		
Router(config)#		
trl+F6 to exit CLI focus	Сору	Paste

13. Melakukan ping dan tracer dari Leo ke Aries dan Virgo





Physical Config Desktop Programming Attributes

```
Command Prompt
Trace complete.
C:\>ping 172.21.30.3
Pinging 172.21.30.3 with 32 bytes of data:
Reply from 172.21.30.3: bytes=32 time=2ms TTL=126
Reply from 172.21.30.3: bytes=32 time=1ms TTL=126
Reply from 172.21.30.3: bytes=32 time=1ms TTL=126
Reply from 172.21.30.3: bytes=32 time=1ms TTL=126
Ping statistics for 172.21.30.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 1ms, Maximum = 2ms, Average = 1ms
C:\>tracert 172.21.30.3
Tracing route to 172.21.30.3 over a maximum of 30 hops:
               56 ms
     0 ms
                         0 ms
                                    172.21.100.10
                        0 ms
    1 ms
               1 ms
                                    172.21.2.3
  2
  3 12 ms
                3 ms
                         2 ms
                                   172.21.30.3
Trace complete.
C:\>
```

Тор