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Id : L202173004

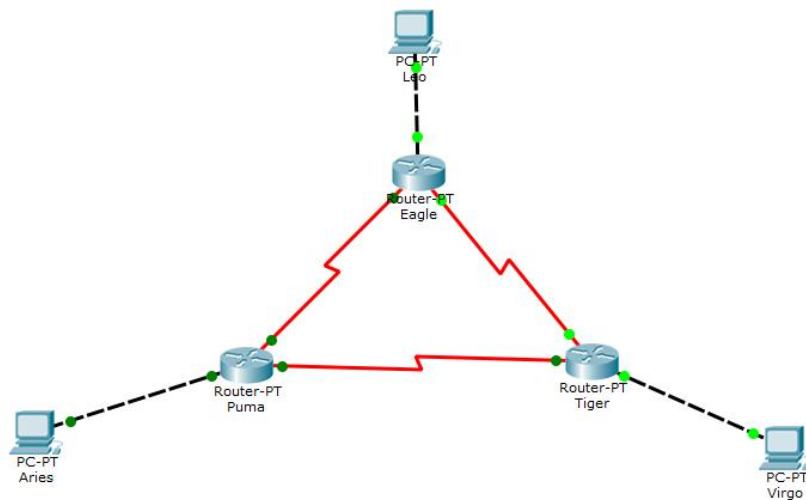
Modul : 7

## Modul 7

### Kegiatan 1. Topologi 1 (Static Routing)

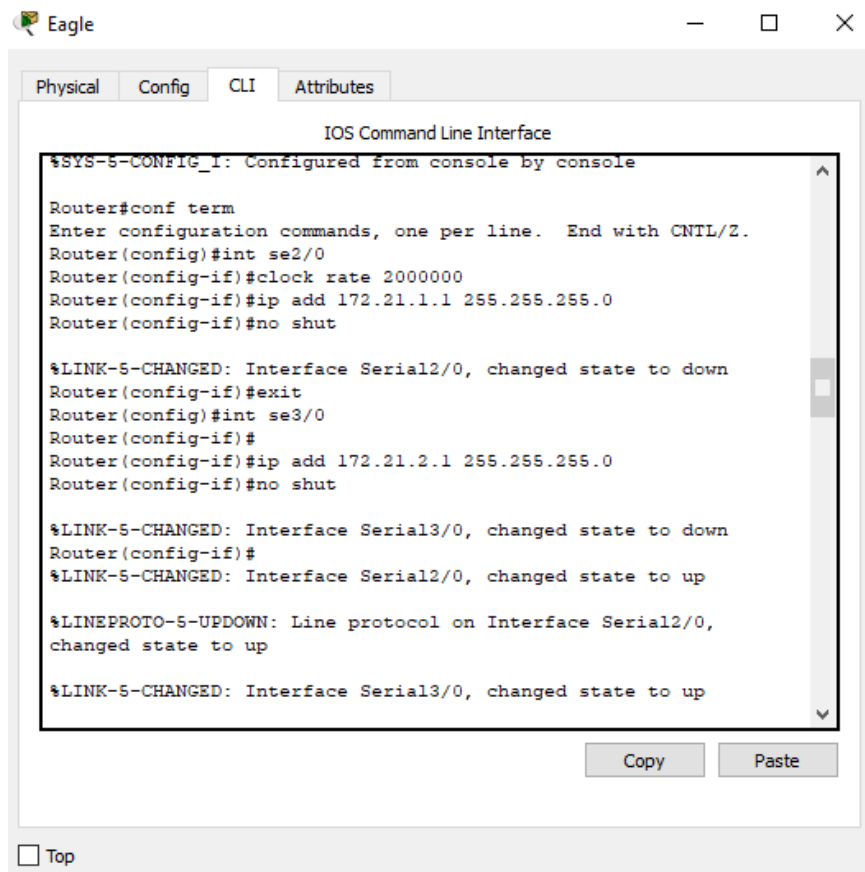
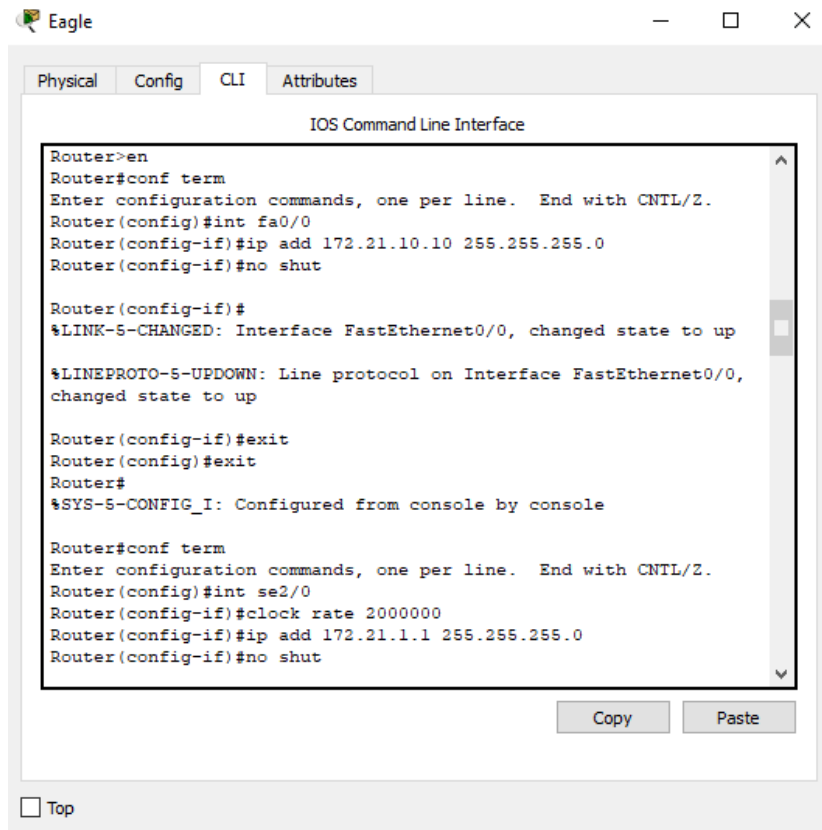
#### Nomor 1 dan 2.

Topologi dengan menggunakan Router Generic dan memberi nama masing-masing router dengan eagle (router 1), puma (router 2), dan tiger (router 3)

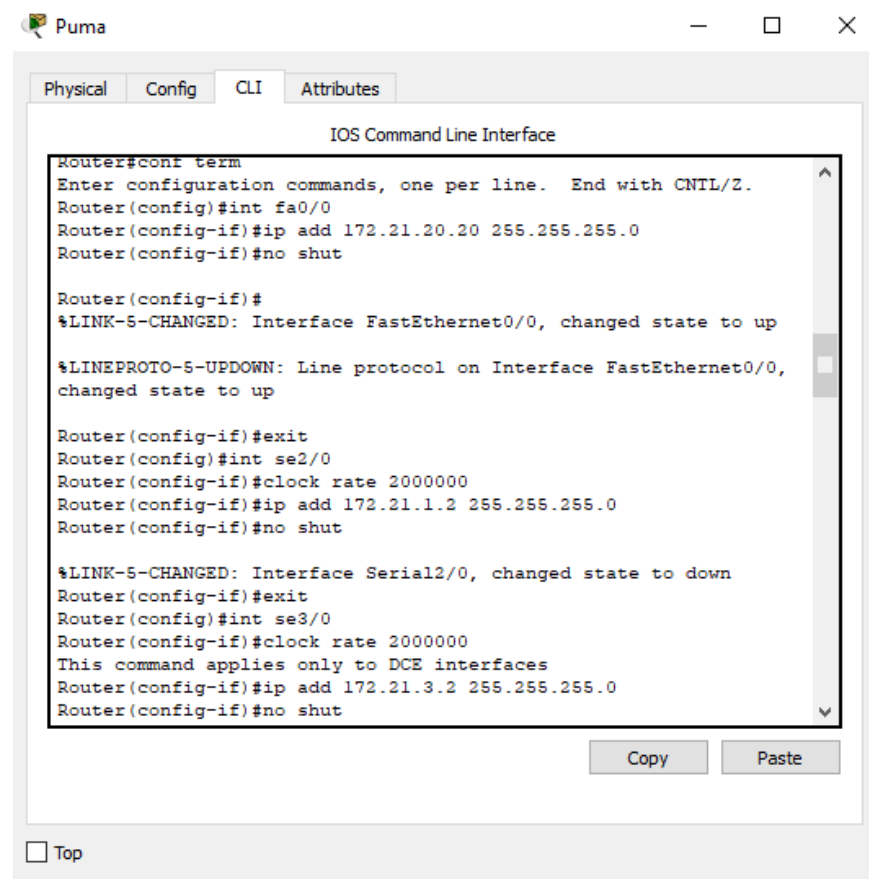


#### Nomor 3.

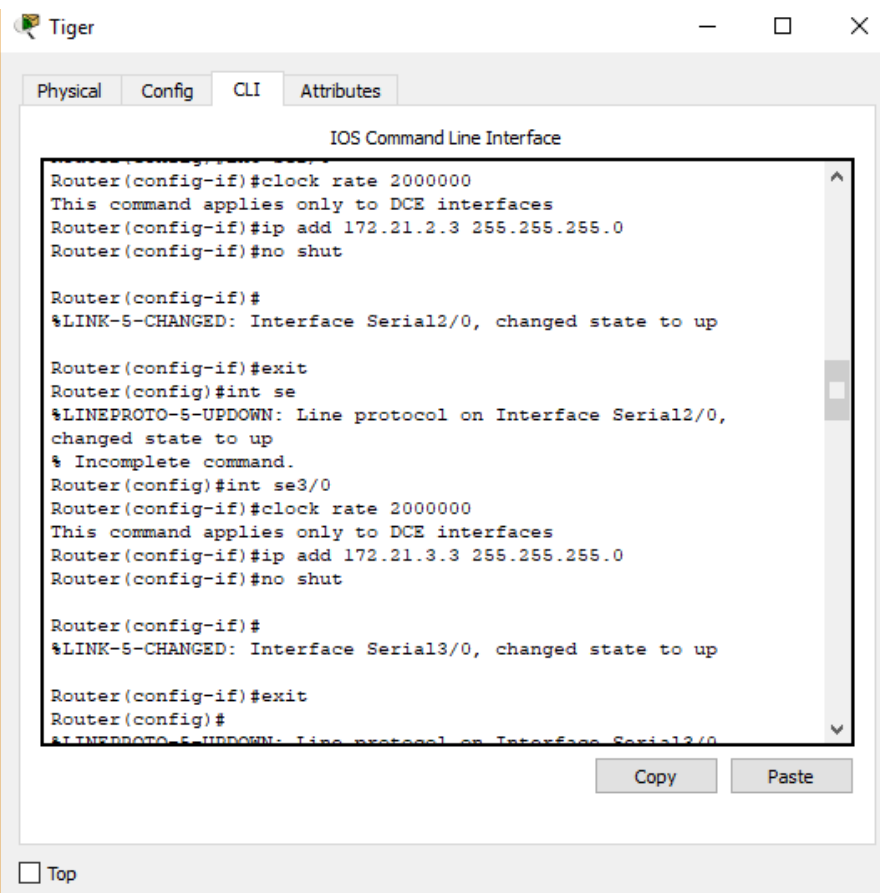
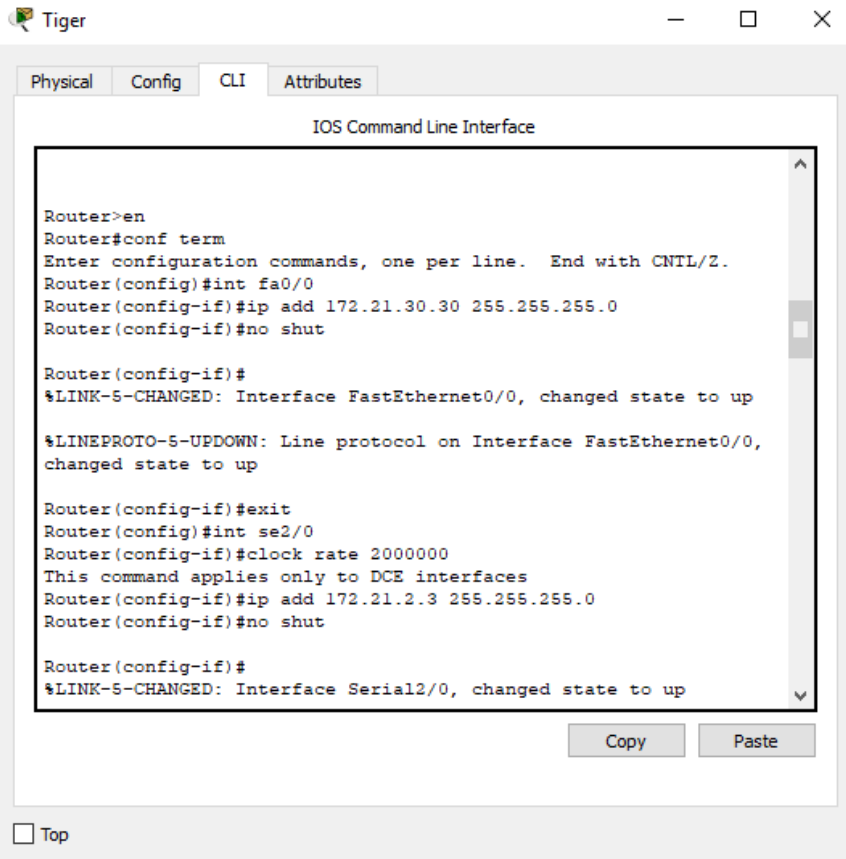
Konfigurasi IP Router Eagle



## Konfigurasi IP Router Puma



## Konfigurasi IP Router Tiger



## Nomor 4.

### Konfigurasi IP Leo (PC1)

Leo

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.10.1

Subnet Mask: 255.255.255.0

Default Gateway: 172.21.10.10

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::200:CFF:FE18:CADB

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

### Konfigurasi IP Aries (PC2)

Aries

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.20.2

Subnet Mask: 255.255.255.0

Default Gateway: 172.21.20.20

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:70FF:FE04:9412

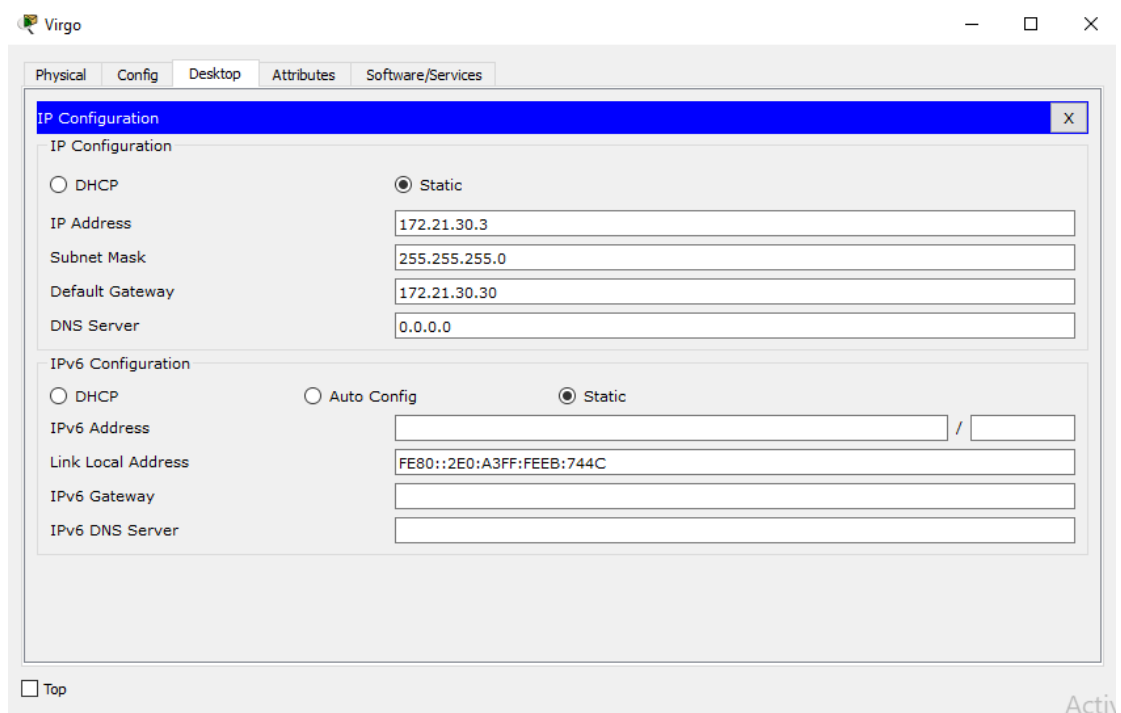
IPv6 Gateway:

IPv6 DNS Server:

☐ Top

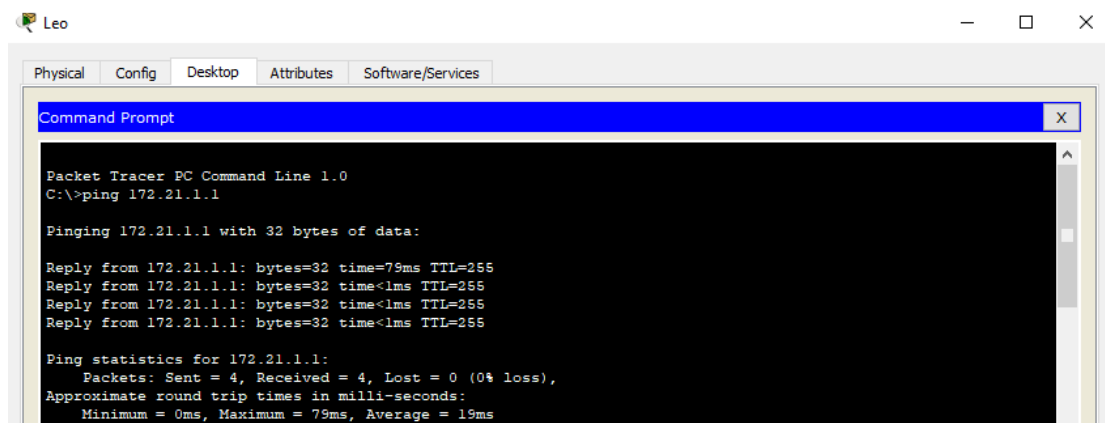
Activ

## Konfigurasi IP Virgo (PC3)

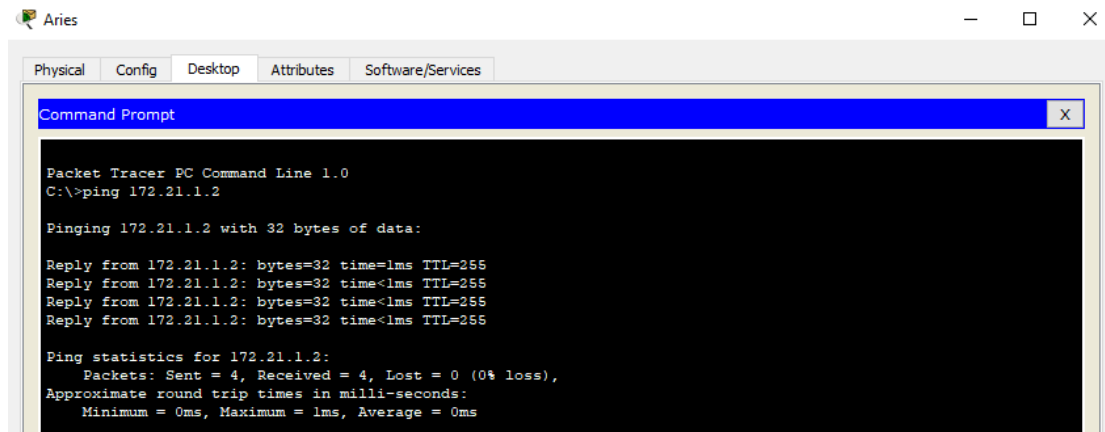


## Nomor 5

Ping dari PC Leo ke Router Eagle



Ping dari PC Aries ke Router Puma



A screenshot of the Packet Tracer interface for PC Aries. The 'Desktop' tab is selected, showing a 'Command Prompt' window. The command prompt displays the output of a ping command to 172.21.1.2. The output shows four successful replies with 32 bytes of data, a time of 1ms, and a TTL of 255. The statistics show 4 packets sent, 4 received, and 0% loss.

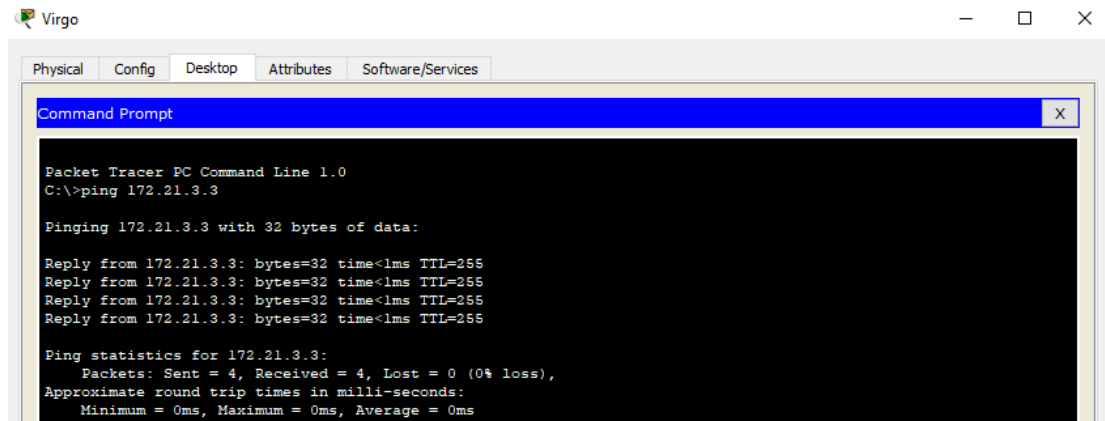
```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

Reply from 172.21.1.2: bytes=32 time=1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Ping dari PC Virgo ke Router Tiger



A screenshot of the Packet Tracer interface for PC Virgo. The 'Desktop' tab is selected, showing a 'Command Prompt' window. The command prompt displays the output of a ping command to 172.21.3.3. The output shows four successful replies with 32 bytes of data, a time of 1ms, and a TTL of 255. The statistics show 4 packets sent, 4 received, and 0% loss.

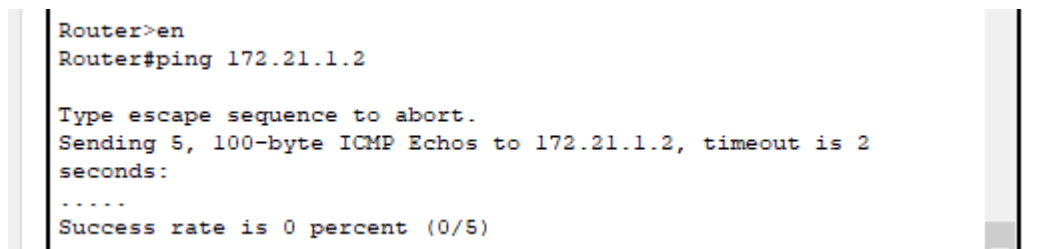
```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.3.3

Pinging 172.21.3.3 with 32 bytes of data:

Reply from 172.21.3.3: bytes=32 time<1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.3.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Ping dari router eagle ke router puma



A screenshot of the command line interface for Router Eagle. The user has entered the command 'en' to enter enable mode, followed by 'ping 172.21.1.2'. The output shows that the ping failed, with a success rate of 0 percent (0/5). The message 'Type escape sequence to abort.' is displayed, followed by 'Sending 5, 100-byte ICMP Echos to 172.21.1.2, timeout is 2 seconds:' and '.....'.

```
Router>en
Router#ping 172.21.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.1.2, timeout is 2
seconds:
.....
Success rate is 0 percent (0/5)
```

Ping dari router eagle ke router tiger

```
Router#ping 172.21.2.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.2.3, timeout is 2
seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/5
ms
```

Ping dari router puma ke router tiger

```
Router>en
Router#ping 172.21.3.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.3.3, timeout is 2
seconds:
.....
Success rate is 0 percent (0/5)
```

**Nomor 7.**



Physical Config CLI Attributes

## IOS Command Line Interface

```
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/5 ms
```

```
Router#show ip route
```

```
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
```

```
       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
```

```
C      172.21.1.0 is directly connected, Serial2/0
```

```
C      172.21.2.0 is directly connected, Serial3/0
```

```
C      172.21.10.0 is directly connected, FastEthernet0/0
```

```
Router#ping 172.21.20.20
```

Copy

Paste

☐ Top

Physical Config CLI Attributes

## IOS Command Line Interface

```
Success rate is 0 percent (0/5)

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile,
B - BGP
       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

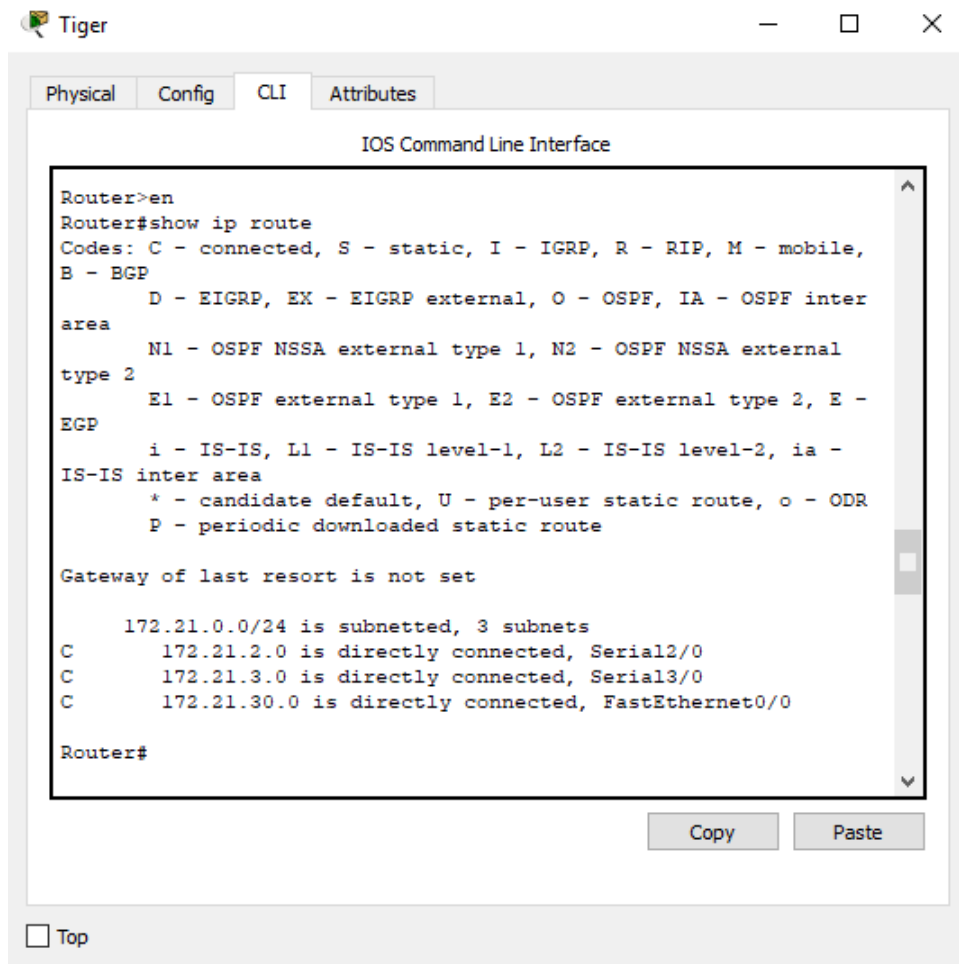
    172.21.0.0/24 is subnetted, 3 subnets
C      172.21.1.0 is directly connected, Serial2/0
C      172.21.3.0 is directly connected, Serial3/0
C      172.21.20.0 is directly connected, FastEthernet0/0

Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
```

Copy

Paste

☐ Top

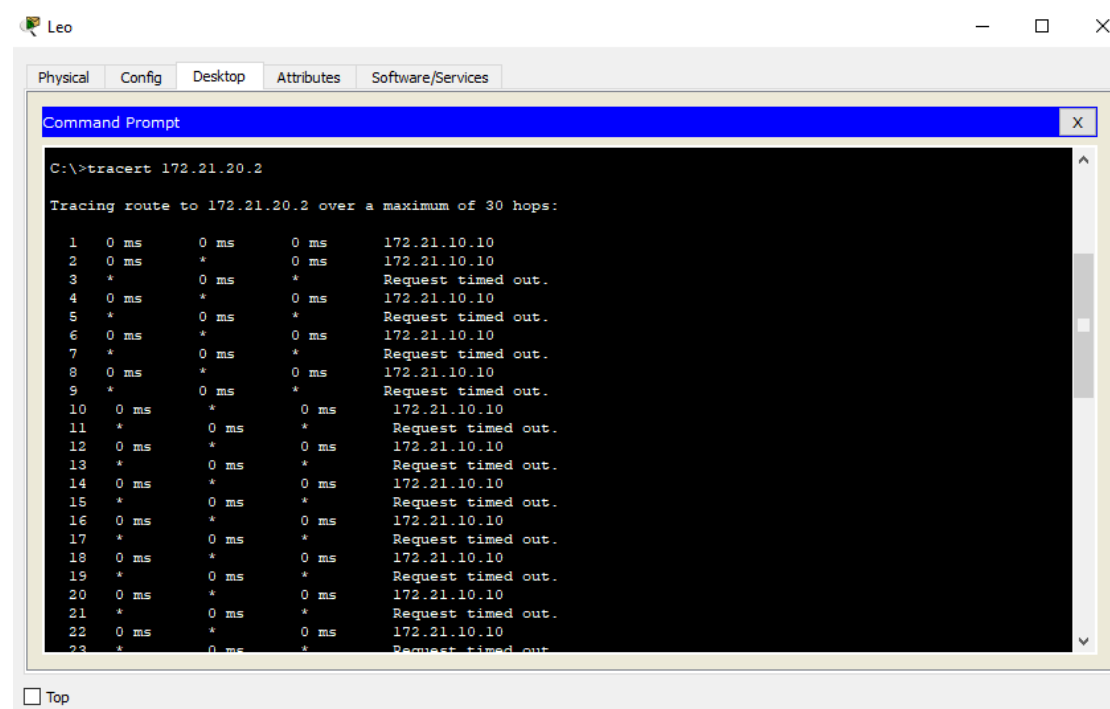


## Nomor 8.

```
Router#ping 172.21.20.20

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.20.20, timeout is 2
seconds:
.....
Success rate is 0 percent (0/5)
```

## Nomor 9.



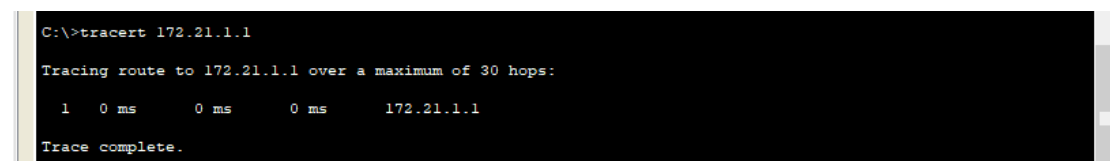
The screenshot shows a Windows desktop with a taskbar at the top containing a user icon labeled 'Leo' and standard window controls. A window titled 'Leo' is open, displaying a 'Command Prompt' window. The Command Prompt window has a blue title bar and a black background with white text. The text in the Command Prompt shows the execution of the 'tracert 172.21.20.2' command. The output indicates a route from 172.21.10.10 to 172.21.10.10, with several hops showing 'Request timed out'.

```
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  0 ms    *        0 ms    172.21.10.10
  3  *        0 ms    *        Request timed out.
  4  0 ms    *        0 ms    172.21.10.10
  5  *        0 ms    *        Request timed out.
  6  0 ms    *        0 ms    172.21.10.10
  7  *        0 ms    *        Request timed out.
  8  0 ms    *        0 ms    172.21.10.10
  9  *        0 ms    *        Request timed out.
 10  0 ms    *        0 ms    172.21.10.10
 11  *        0 ms    *        Request timed out.
 12  0 ms    *        0 ms    172.21.10.10
 13  *        0 ms    *        Request timed out.
 14  0 ms    *        0 ms    172.21.10.10
 15  *        0 ms    *        Request timed out.
 16  0 ms    *        0 ms    172.21.10.10
 17  *        0 ms    *        Request timed out.
 18  0 ms    *        0 ms    172.21.10.10
 19  *        0 ms    *        Request timed out.
 20  0 ms    *        0 ms    172.21.10.10
 21  *        0 ms    *        Request timed out.
 22  0 ms    *        0 ms    172.21.10.10
 23  *        0 ms    *        Request timed out.
```

## Nomor 10.



The screenshot shows a Command Prompt window with a black background and white text. The text displays the execution of the 'tracert 172.21.1.1' command. The output shows a single hop from 172.21.1.1 to 172.21.1.1, indicating a successful trace.

```
C:\>tracert 172.21.1.1

Tracing route to 172.21.1.1 over a maximum of 30 hops:

  1  0 ms    0 ms    0 ms    172.21.1.1

Trace complete.
```

## Nomor 11.

```
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)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.2.3
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.2
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

## Nomor 12.

```
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=3ms TTL=125
Reply from 172.21.20.2: bytes=32 time=1ms TTL=125
Reply from 172.21.20.2: bytes=32 time=2ms TTL=125
Reply from 172.21.20.2: bytes=32 time=3ms TTL=125

Ping statistics for 172.21.20.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms
```

```
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

  0  1 ms    0 ms    0 ms    172.21.10.10
  1  1 ms    1 ms    1 ms    172.21.1.2
  2  1 ms    0 ms    0 ms    172.21.20.2

Trace complete.
```

## Nomor 12B.

Leo

Physical Config Desktop Attributes Software/Services

**IP Configuration**

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.100.1

Subnet Mask: 255.255.255.0

Default Gateway: 172.21.10.10

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::200:CFF:FE18:CADB

IPv6 Gateway:

IPv6 DNS Server:

```
Router>en
Router#conf term
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)#ip route 172.21.100.0 255.255.255.0 172.21.1.1
Router(config)#
```

```
Router>en
Router#conf term
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)#
```

