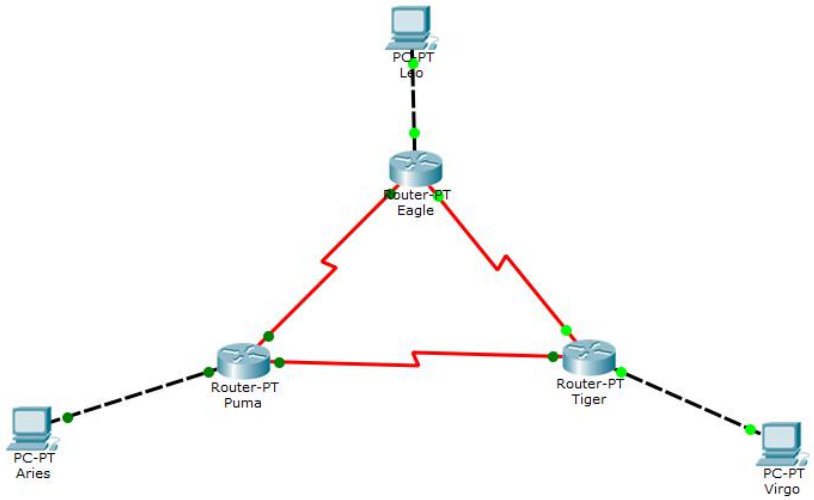
Nama : Lail Nur Rachman
NIM : L200170137
Kelas C

**Modul 7**

## Kegiatan 1. Topologi 1 (Static Routing)

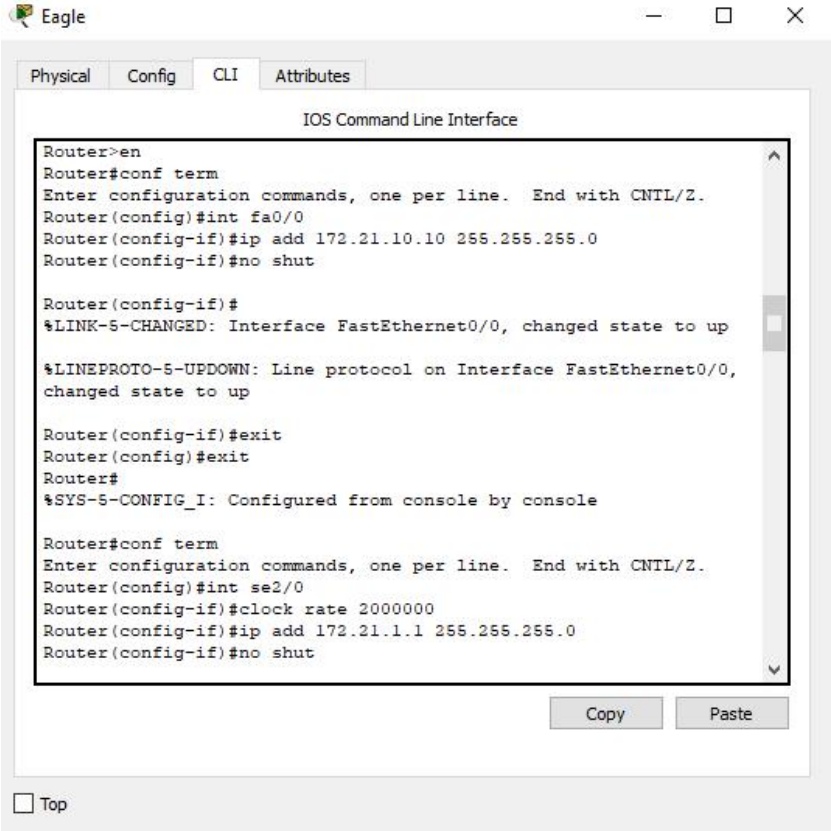
### Nomor 1 dan 2.

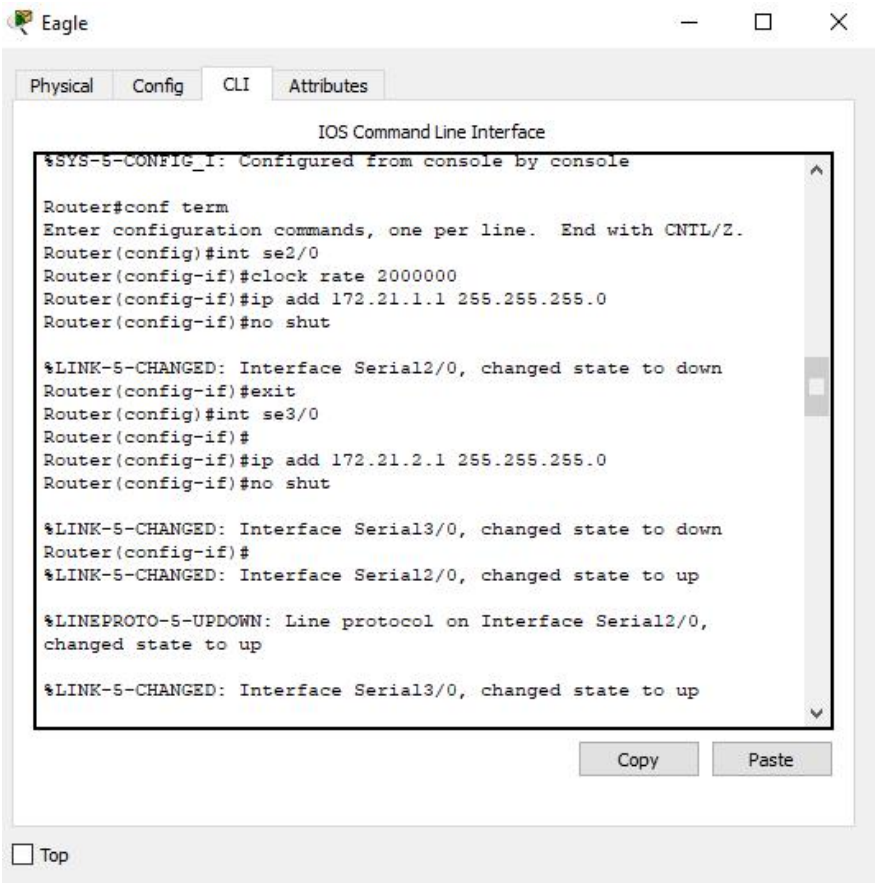
Topologi dengan menggunakan Router Generic dan memberi nama masing-masing router dengan eagle (router 1), puma (router 2), dan tiger (router 3)



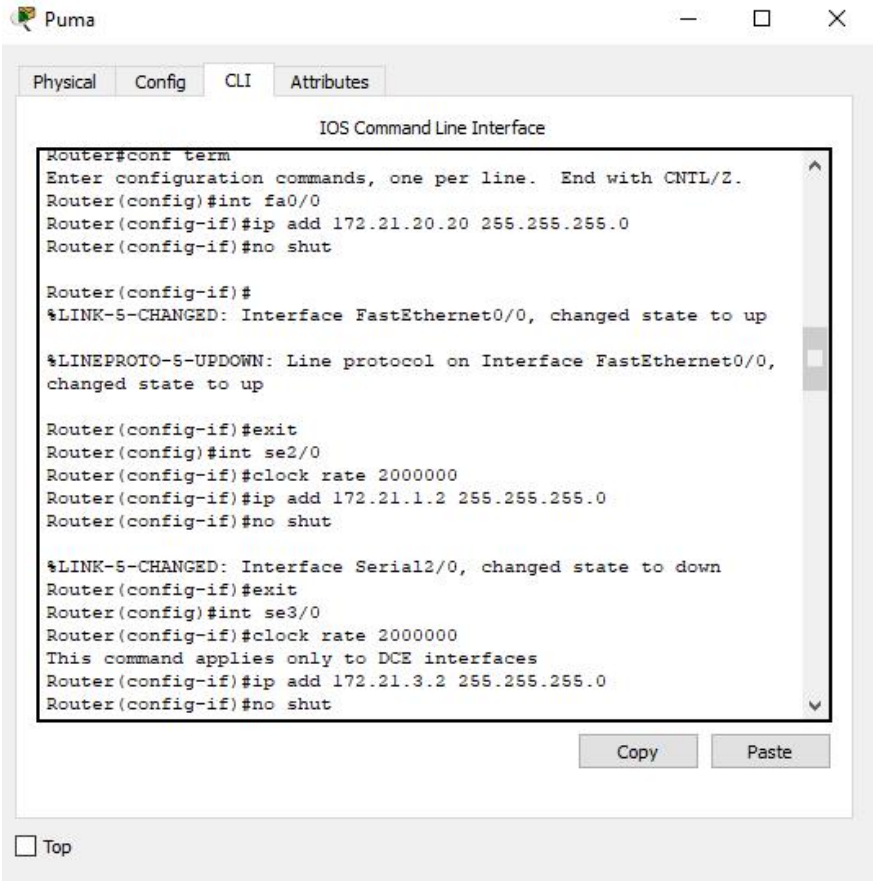

### Nomor 3.

Konfigurasi IP Router Eagle

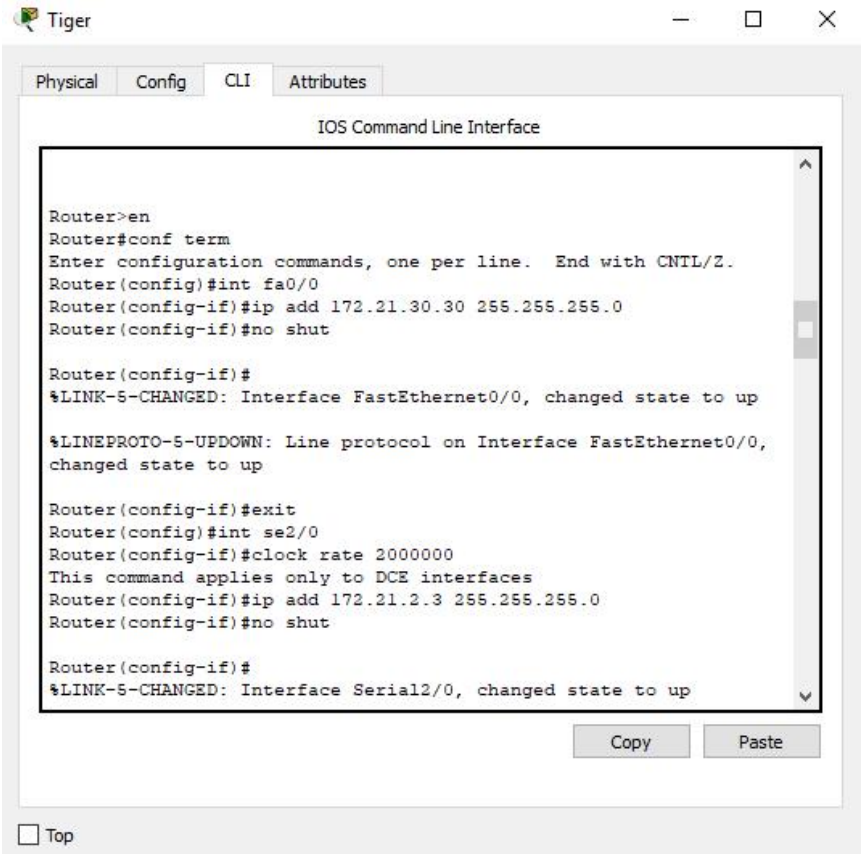


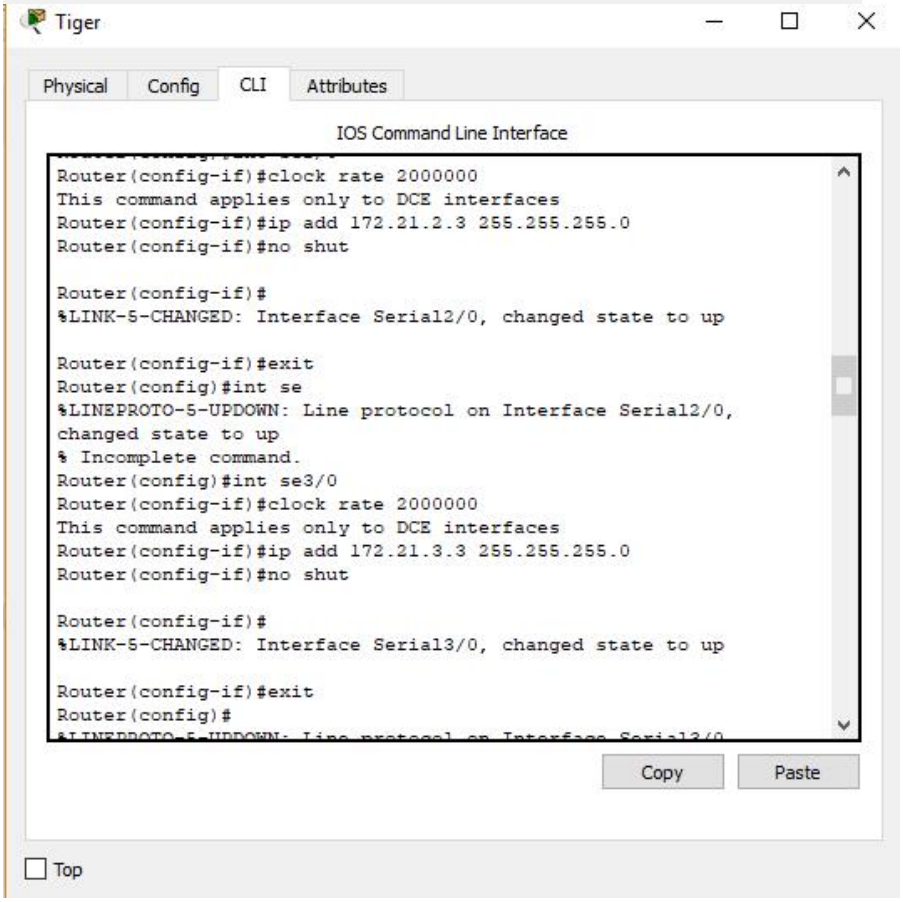



Konfigurasi IP Router Puma



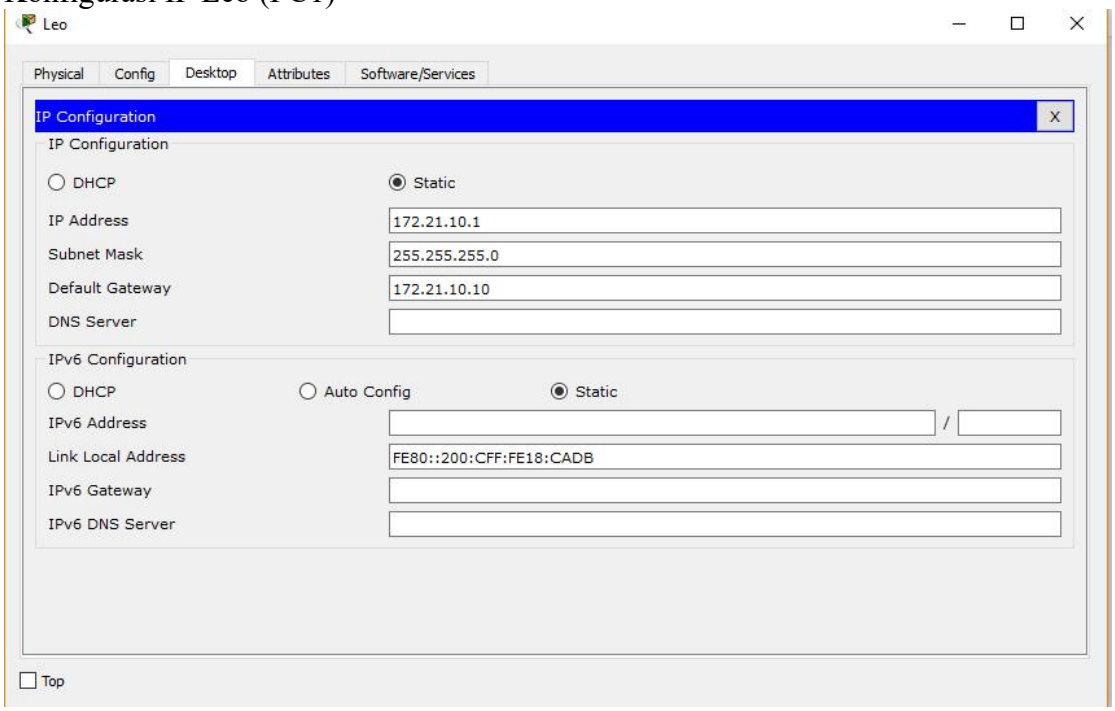
Konfigurasi IP Router Tiger



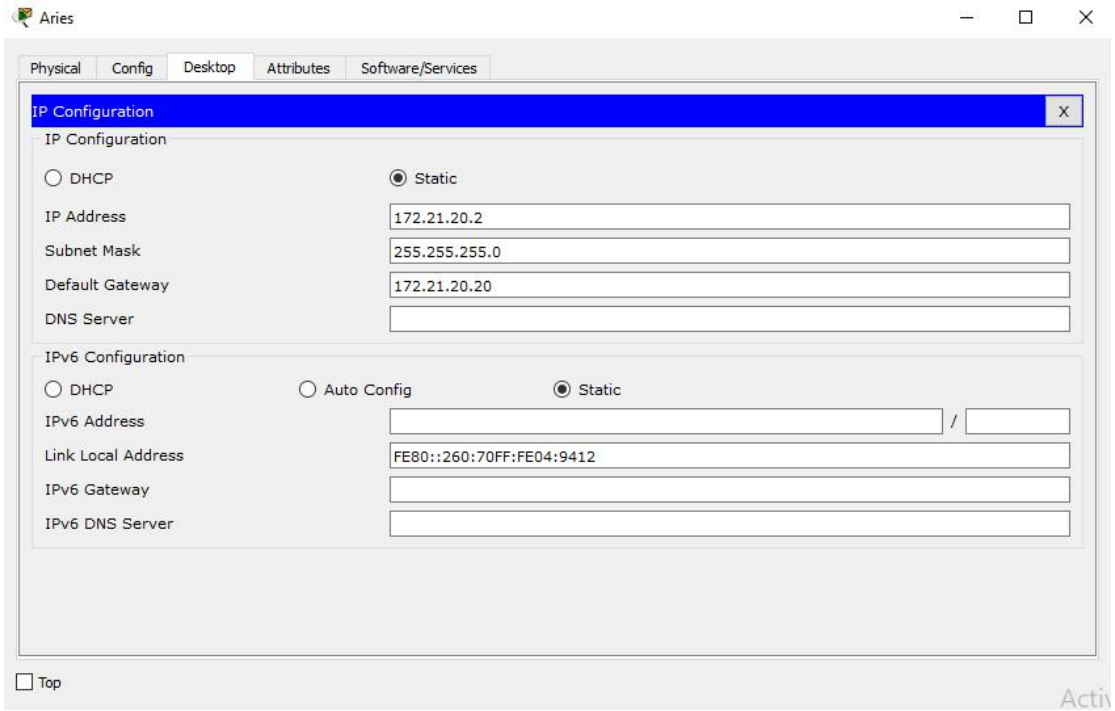



**Nomor 4.**

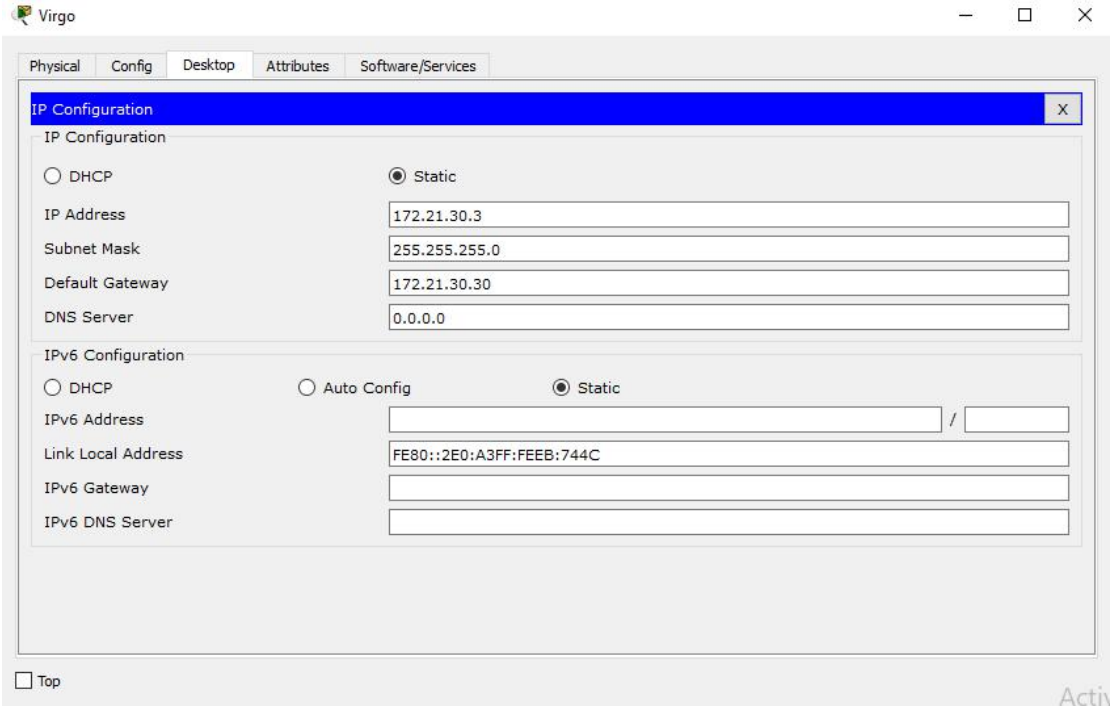
Konfigurasi IP Leo (PC1)




Konfigurasi IP Aries (PC2)

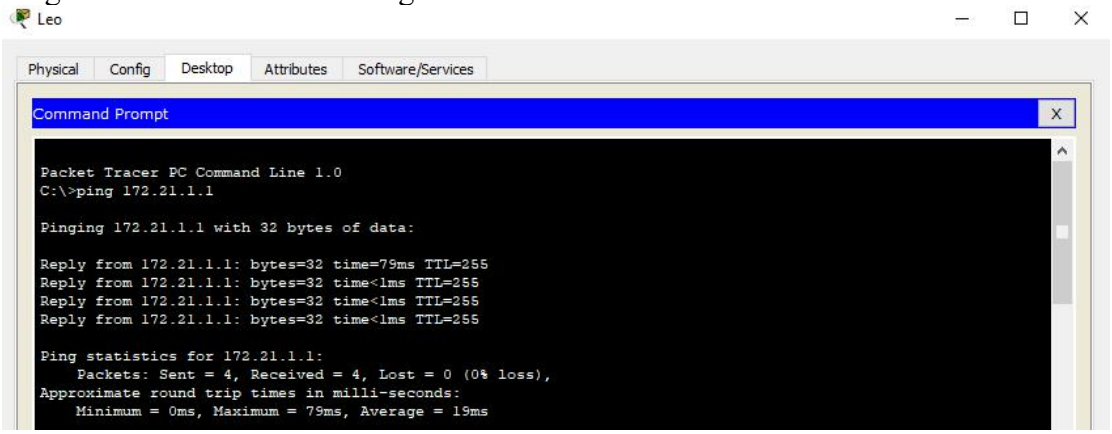


Konfigurasi IP Virgo (PC3)

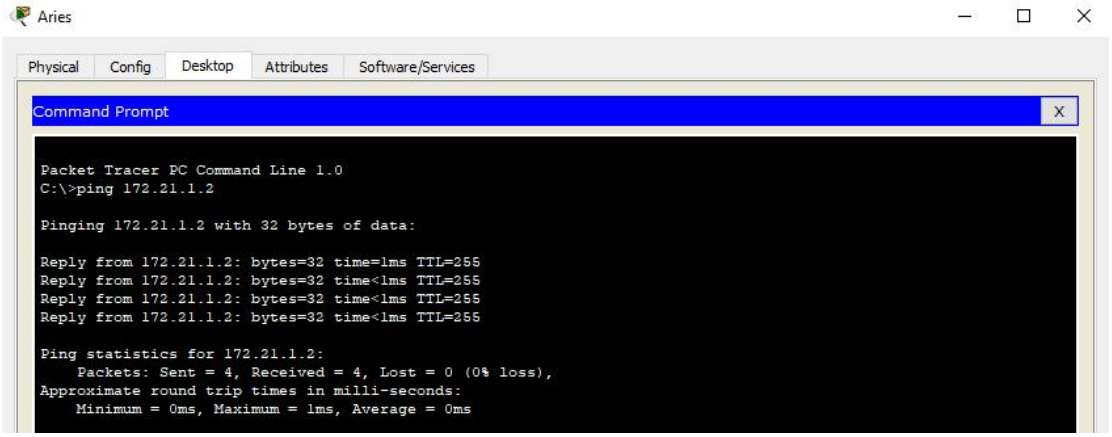



**Nomor 5**

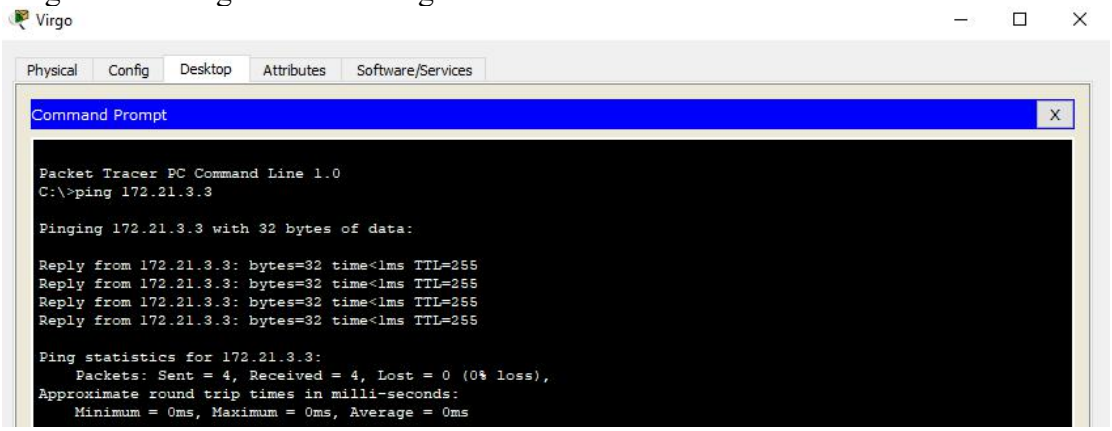
Ping dari PC Leo ke Router Eagle



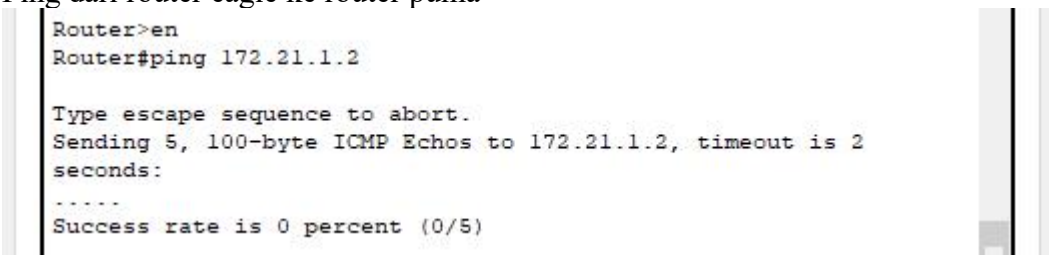

Ping dari PC Aries ke Router Puma



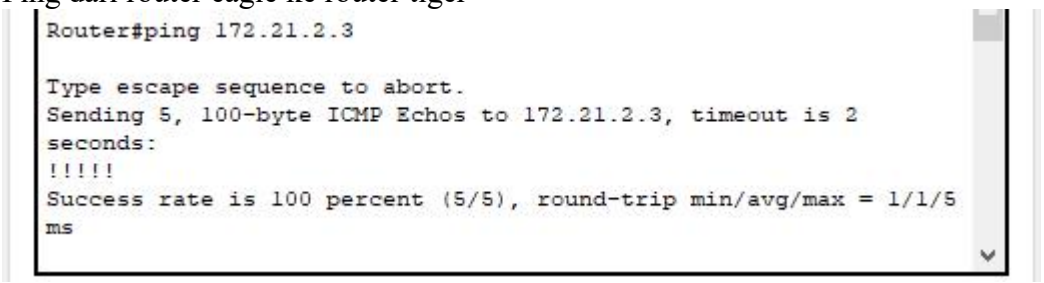
Ping dari PC Virgo ke Router Tiger



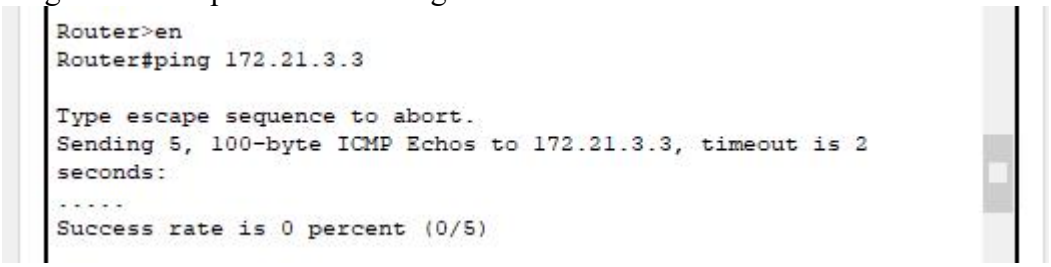

Ping dari router eagle ke router puma



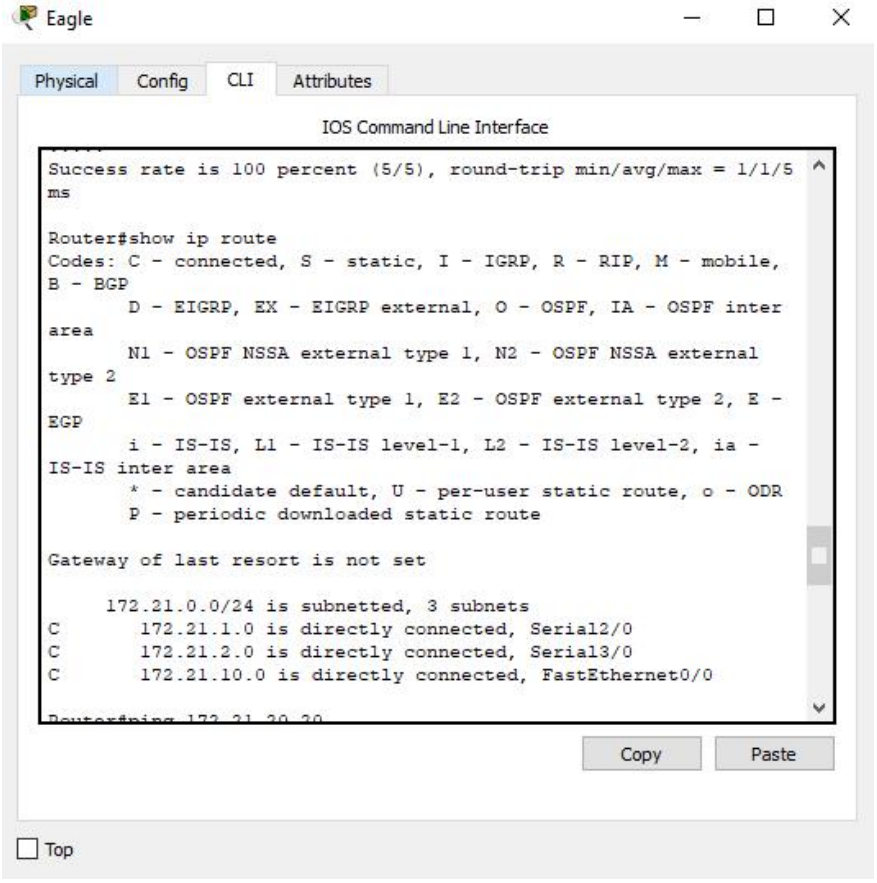

Ping dari router eagle ke router tiger

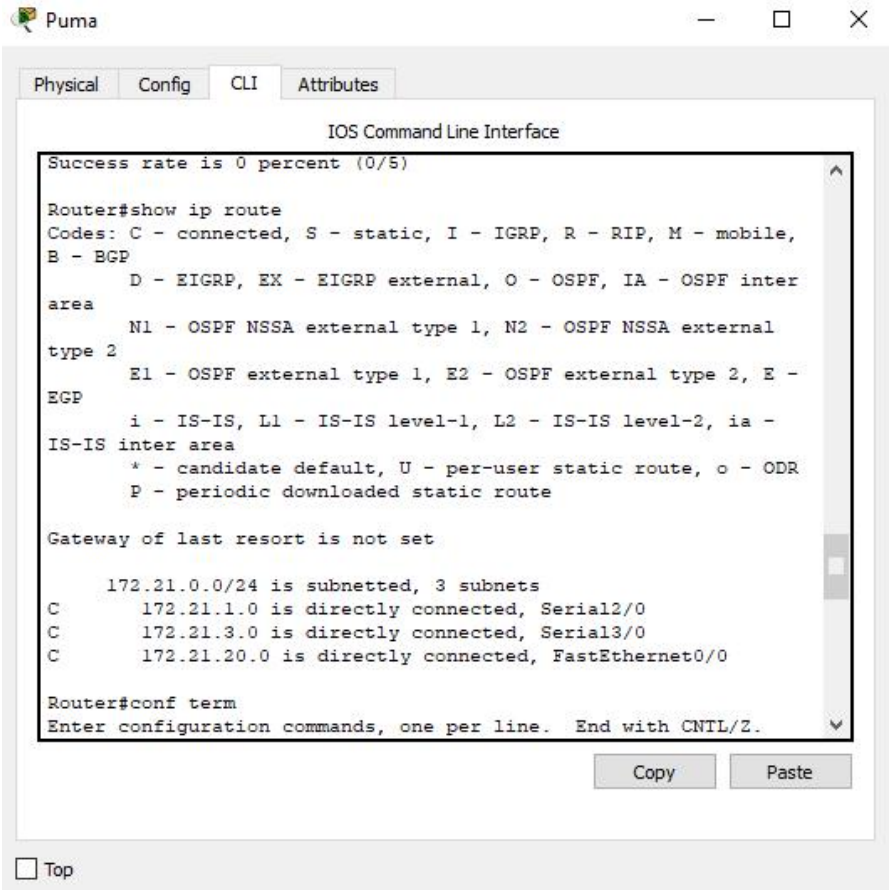


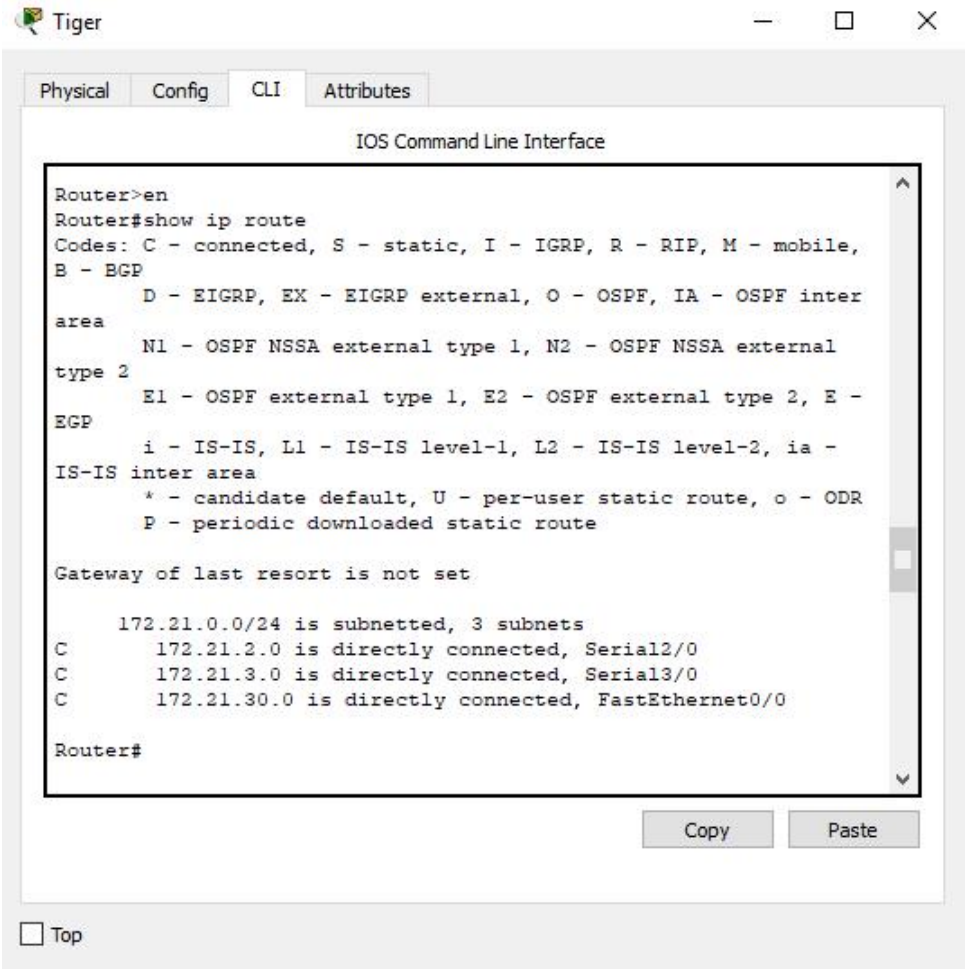

Ping dari router puma ke router tiger



**Nomor 7.**


Eagle
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
Copy
Paste
Top


Puma
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

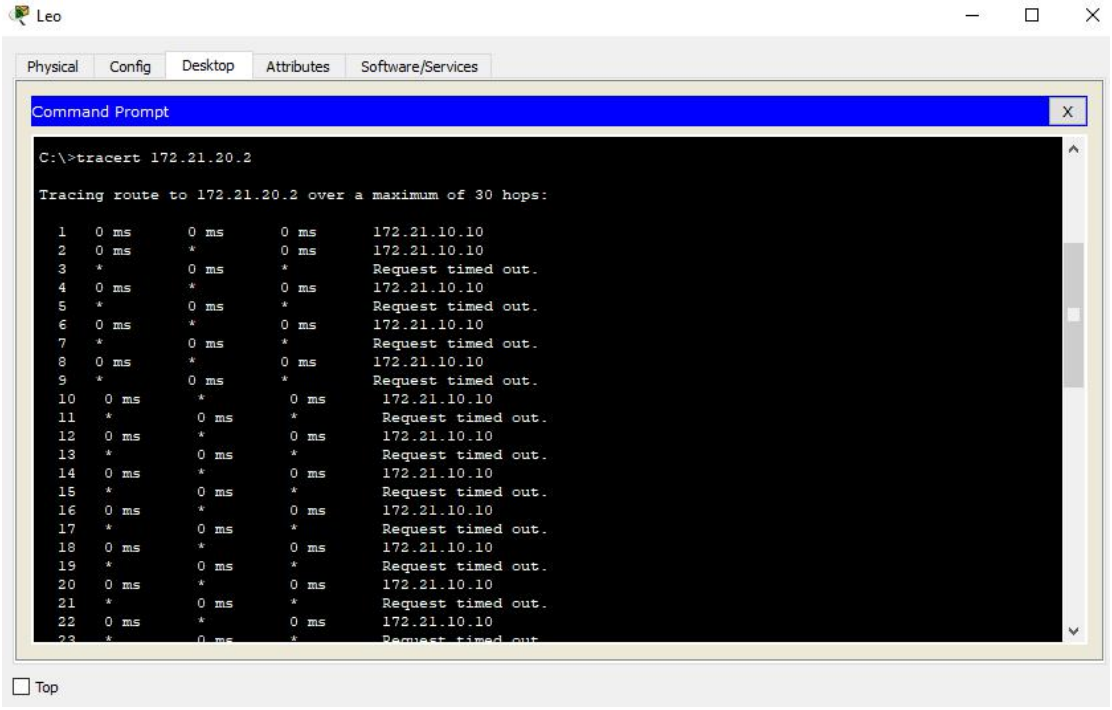



**Nomor 8.**

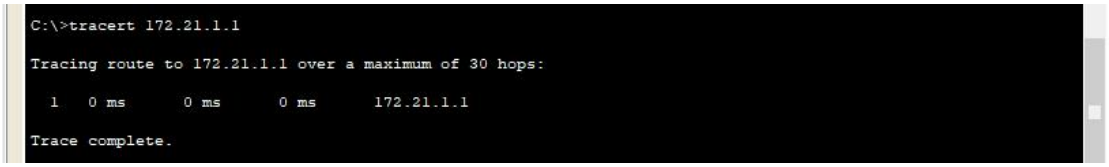
```
Router#ping 172.21.20.20

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)
```

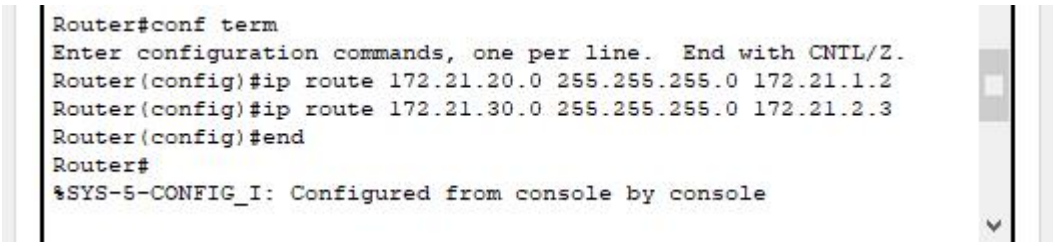
**Nomor 9.**

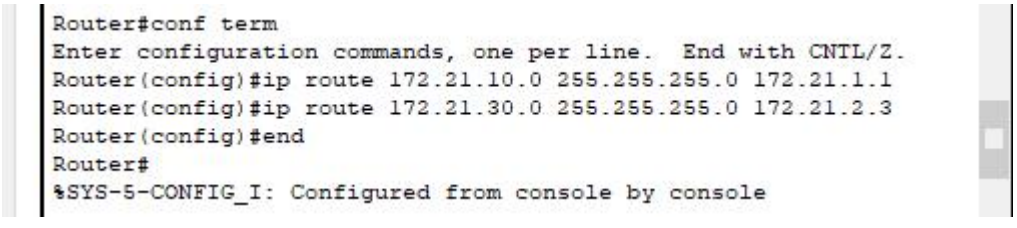


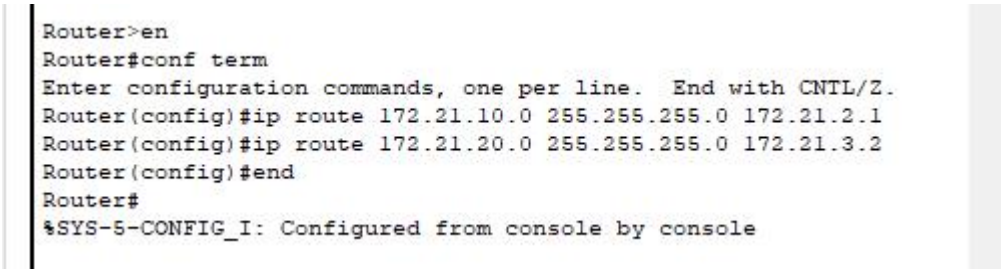

**Nomor 10.**




**Nomor 11.**



**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
```

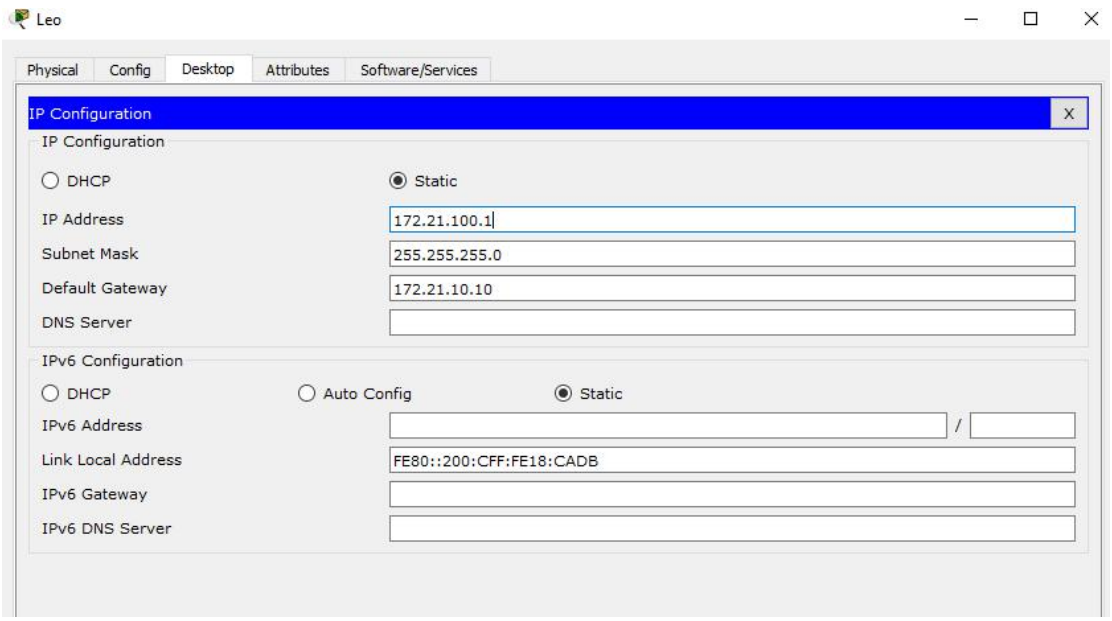
```
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

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

Trace complete.
```

**Nomor 12B.**




```
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)#
```

Aries

Physical | Config | Desktop | Attributes | Software/Services

Command Prompt

```
C:\>ping 172.21.100.1

Pinging 172.21.100.1 with 32 bytes of data:

Reply from 172.21.1.1: Destination host unreachable.
Reply from 172.21.1.1: Destination host unreachable.
Reply from 172.21.1.1: Destination host unreachable.
Reply from 172.21.1.1: Destination host unreachable.

Ping statistics for 172.21.100.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>tracert 172.21.100.1

Tracing route to 172.21.100.1 over a maximum of 30 hops:

  1    0 ms      0 ms      0 ms      172.21.20.20
  2    1 ms      3 ms      1 ms      172.21.3.3
  3    1 ms      2 ms      1 ms      172.21.1.1
  4    1 ms      *         1 ms      172.21.1.1
  5    *         1 ms      *         Request timed out.
  6    11 ms     *         2 ms      172.21.1.1
  7    *         1 ms      *         Request timed out.
  8    13 ms     *         2 ms      172.21.1.1
  9    *         1 ms      *         Request timed out.
  10    1 ms      *         2 ms      172.21.1.1
  11    *         1 ms      *         Request timed out.
```

Top

Leo

Physical | Config | Desktop | Attributes | Software/Services

Command Prompt

```
  3    1 ms      0 ms      0 ms      172.21.20.2

Trace complete.

C:\>ping 172.21.100.1

Pinging 172.21.100.1 with 32 bytes of data:

Reply from 172.21.100.1: bytes=32 time=331ms TTL=128
Reply from 172.21.100.1: bytes=32 time=4ms TTL=128
Reply from 172.21.100.1: bytes=32 time=1ms TTL=128
Reply from 172.21.100.1: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.100.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 331ms, Average = 84ms

C:\>tracert 172.21.100.1

Tracing route to 172.21.100.1 over a maximum of 30 hops:

  1    5 ms      3 ms      3 ms      172.21.100.1

Trace complete.
```