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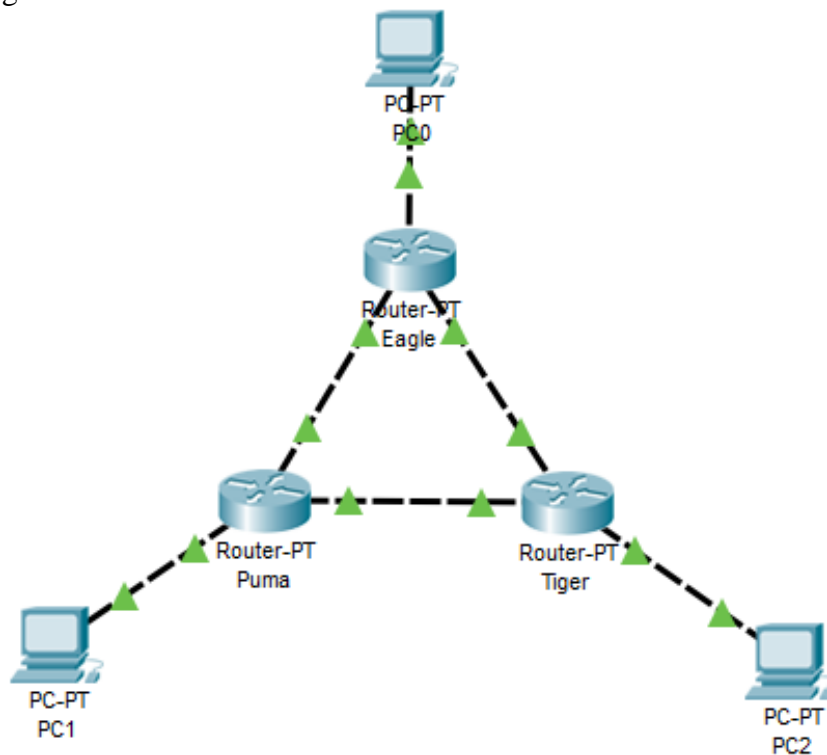
MODUL 7

STATIC ROUTE, RIP DAN IGRP

Kegiatan Praktikum

Kegiatan 1. Topologi 1 (Static Routing)

1. Menggunakan Packet Tracer buat topologi berikut ini dengan menggunakan Router generic.



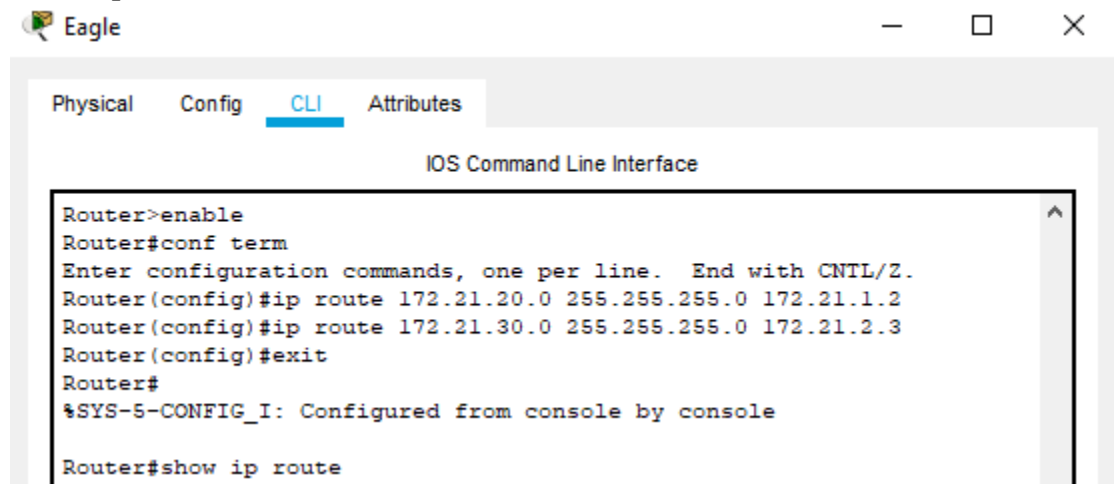
2. Beri nama masing-masing router dengan eagle (router 1), puma (router 2), dan tiger (router 3).
3. Konfigurasi masing-masing interface pada tiap Router dengan alamat IP berikut ini :
 - Eagle (ethernet 0) = 172.21.10.10/24
 - Eagle (serial 0) = 172.21.1.1/24
 - Eagle (serial 1) = 172.21.2.1/24
 - Puma (ethernet 0) = 172.21.20.20/24
 - Puma (serial 0) = 172.21.1.2/24

- Puma (serial 1) = 172.21.3.2/24
- Tiger (ethernet 0) = 172.21.30.30/24
- Tiger (serial 0) = 172.21.2.3/24
- Tiger (serial 1) = 172.21.3.3/24

4. Pada mode user atau mode privileged, tambahkan route table pada masing-masing router untuk setiap alamat jaringan yang tidak terhubung secara langsung dengan interface router.

Langkah pengoperasian (hanya untuk router eagle), konfigurasi router lain menggunakan langkah yang sama dengan alamat jaringan yang berbeda)

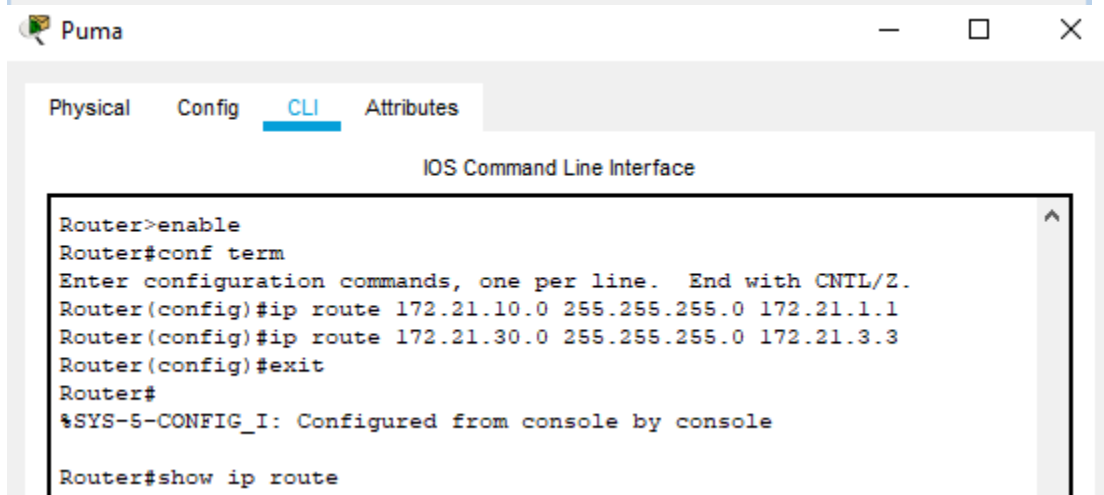
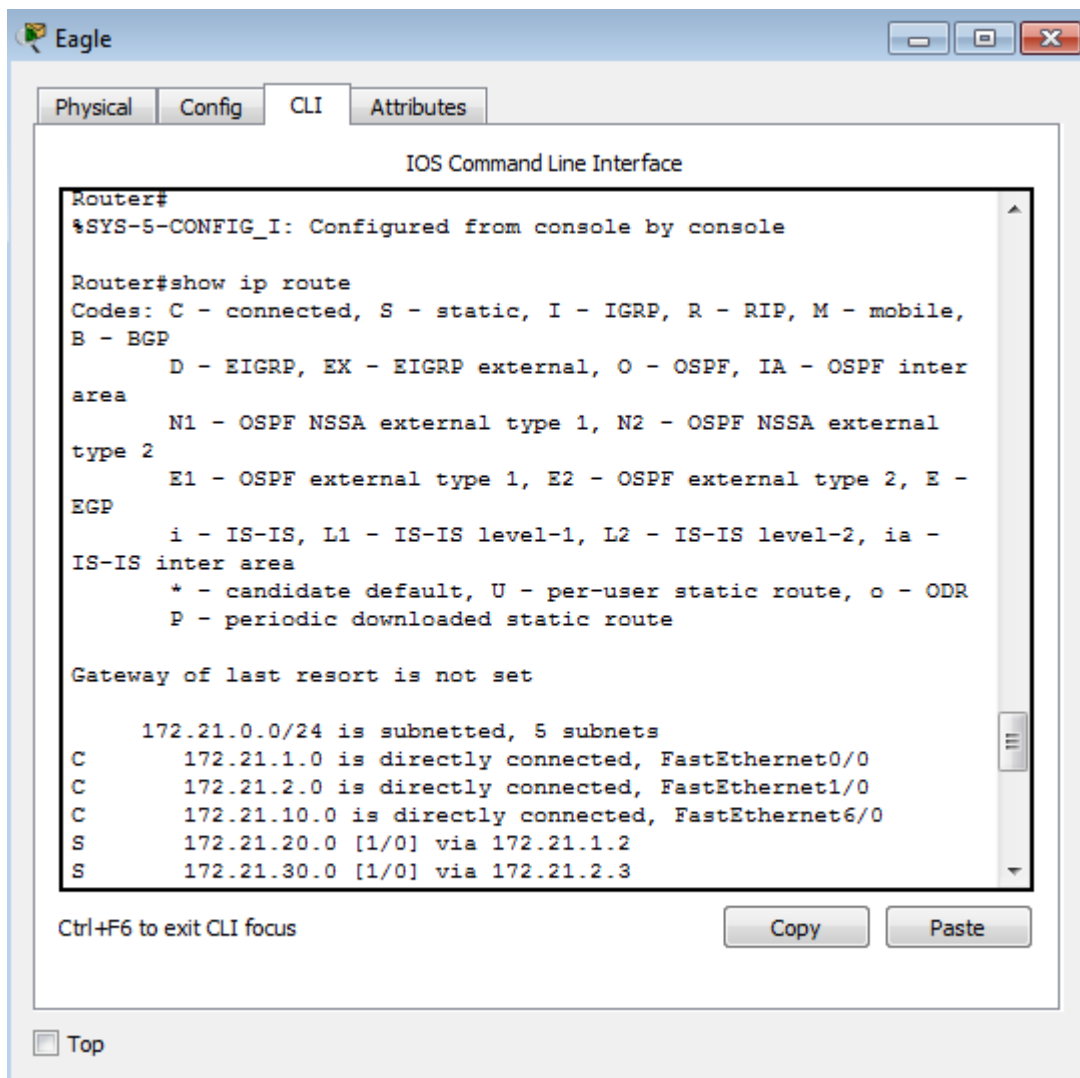
- Masuk mode configuration
- Ketik ***ip route 172.21.20.0 255.255.255.0 172.21.1.2***
- Ketik ***ip route 172.21.30.0 255.255.255.0 172.21.2.3***

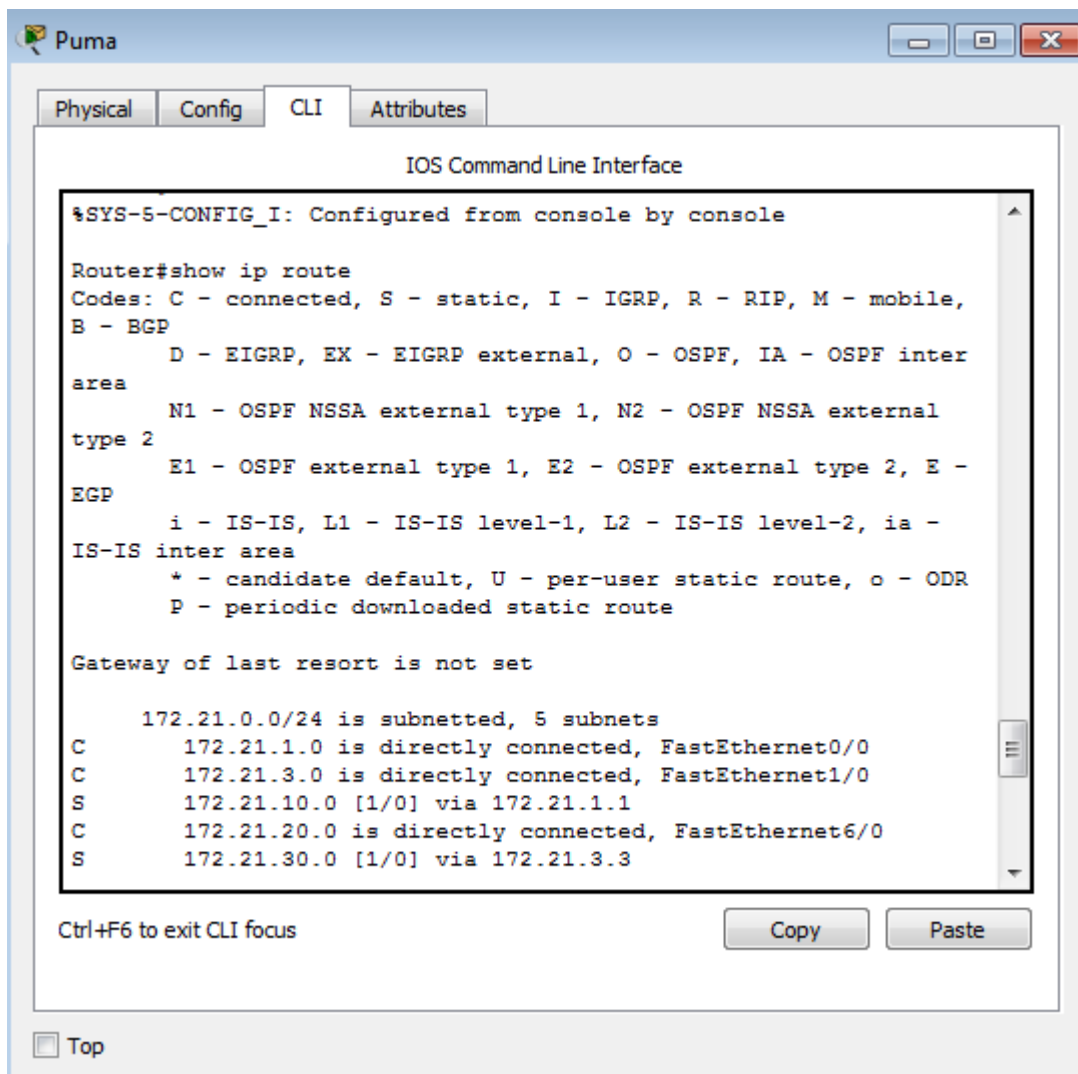


```

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)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip route

```





Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
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)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show ip route
```

Physical Config CLI Attributes

IOS Command Line Interface

```
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, 5 subnets
C      172.21.2.0 is directly connected, FastEthernet1/0
C      172.21.3.0 is directly connected, FastEthernet0/0
S      172.21.10.0 [1/0] via 172.21.2.1
S      172.21.20.0 [1/0] via 172.21.2.1
               [1/0] via 172.21.3.2
C      172.21.30.0 is directly connected, FastEthernet6/0
```

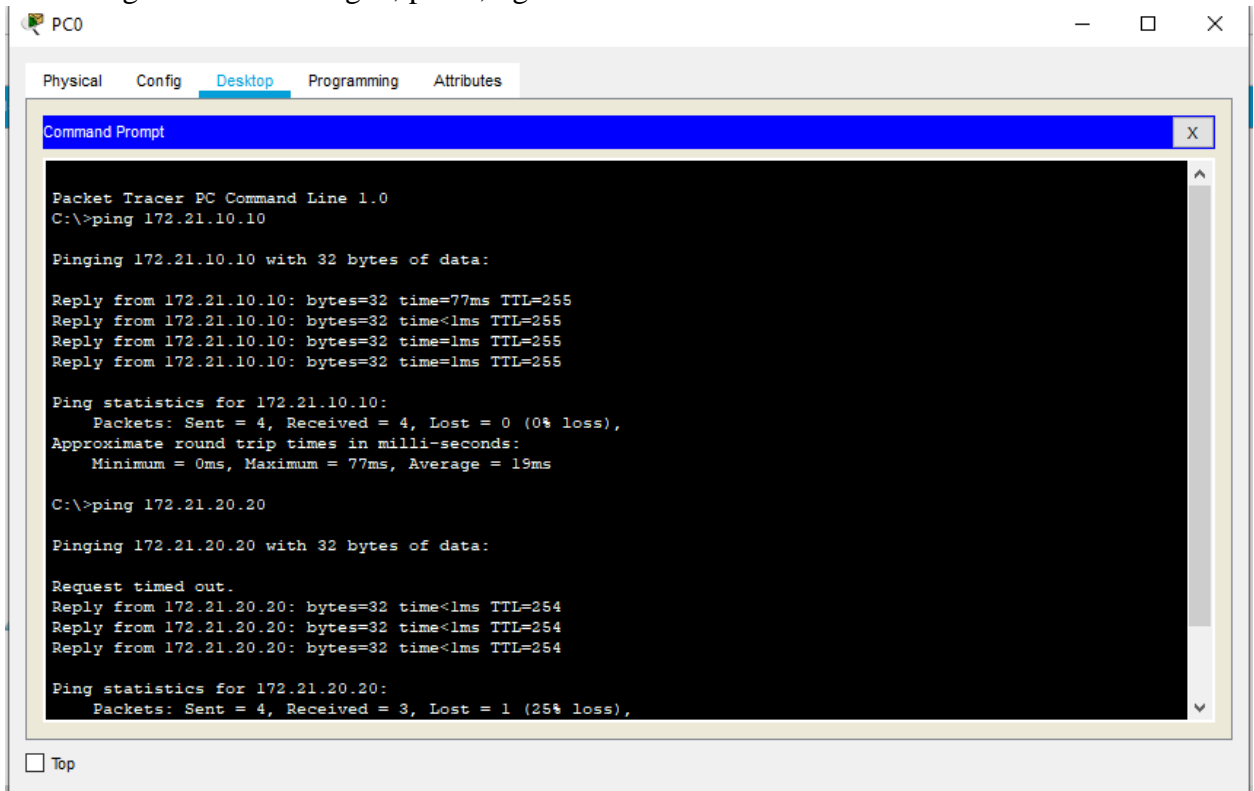
Ctrl+F6 to exit CLI focus

Copy

Paste

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5. Hasil Ping leo ke router eagle , puma, tiger



PC0

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.10.10

Pinging 172.21.10.10 with 32 bytes of data:

Reply from 172.21.10.10: bytes=32 time=77ms TTL=255
Reply from 172.21.10.10: bytes=32 time<1ms TTL=255
Reply from 172.21.10.10: bytes=32 time=1ms TTL=255
Reply from 172.21.10.10: bytes=32 time=1ms TTL=255

Ping statistics for 172.21.10.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 77ms, Average = 19ms

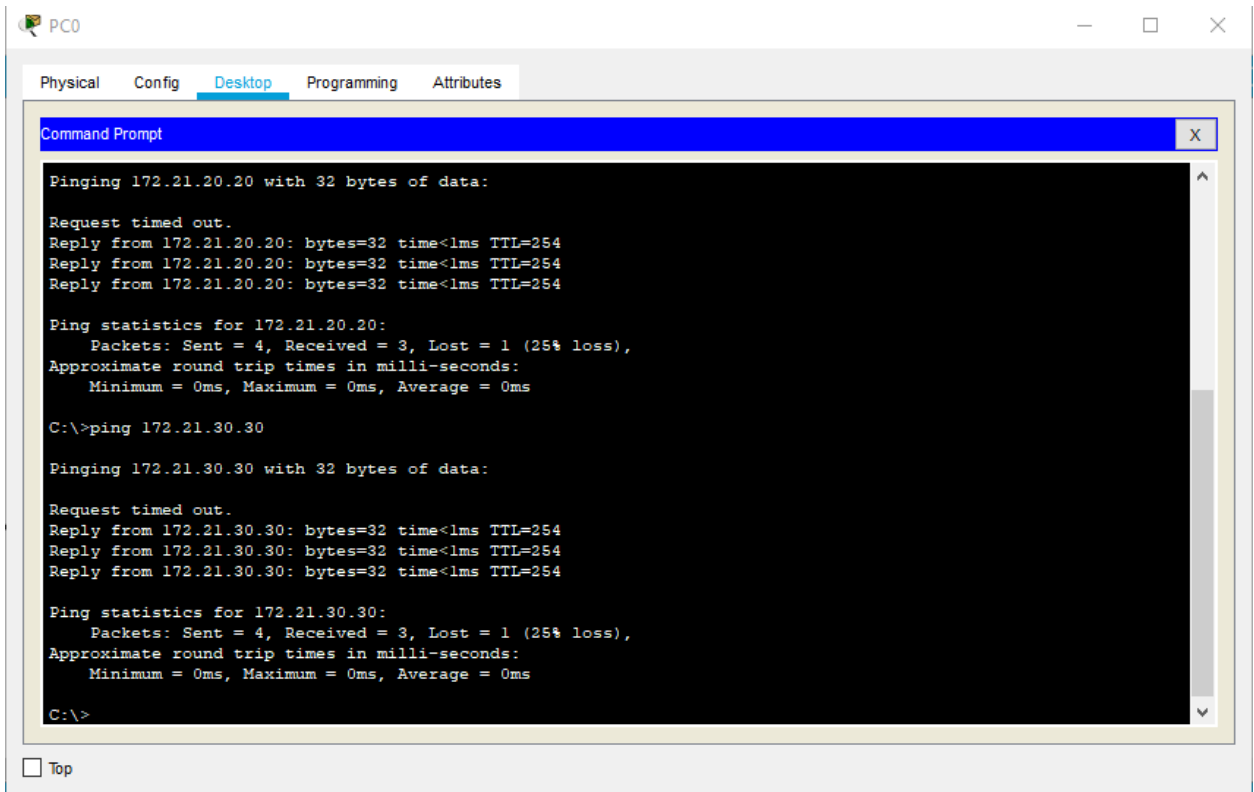
C:\>ping 172.21.20.20

Pinging 172.21.20.20 with 32 bytes of data:

Request timed out.
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254

Ping statistics for 172.21.20.20:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
```

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PC0

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Pinging 172.21.20.20 with 32 bytes of data:

Request timed out.
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254

Ping statistics for 172.21.20.20:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.21.30.30

Pinging 172.21.30.30 with 32 bytes of data:

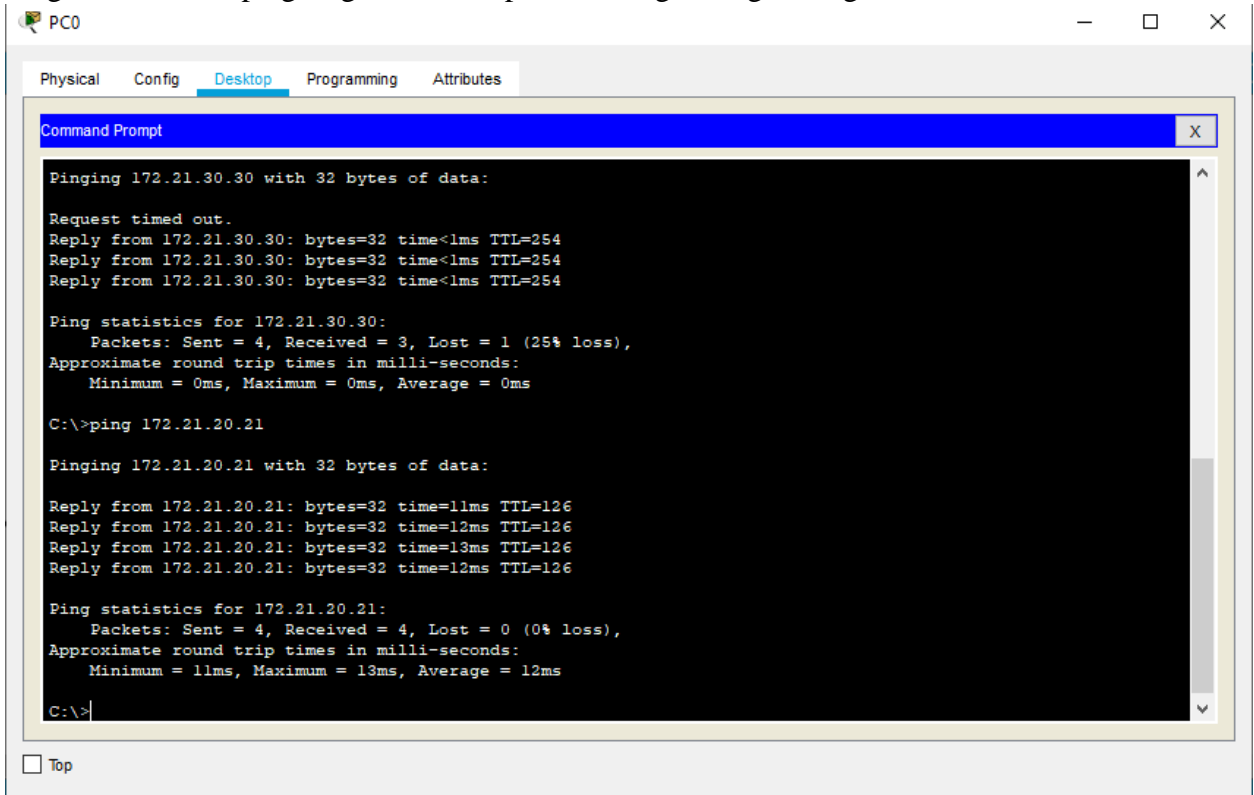
Request timed out.
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254

Ping statistics for 172.21.30.30:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

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Ping leo ke aries , ping virgo ke router puma dan tiger, virgo ke tiger



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 172.21.30.30 with 32 bytes of data:

Request timed out.
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254

Ping statistics for 172.21.30.30:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.21.20.21

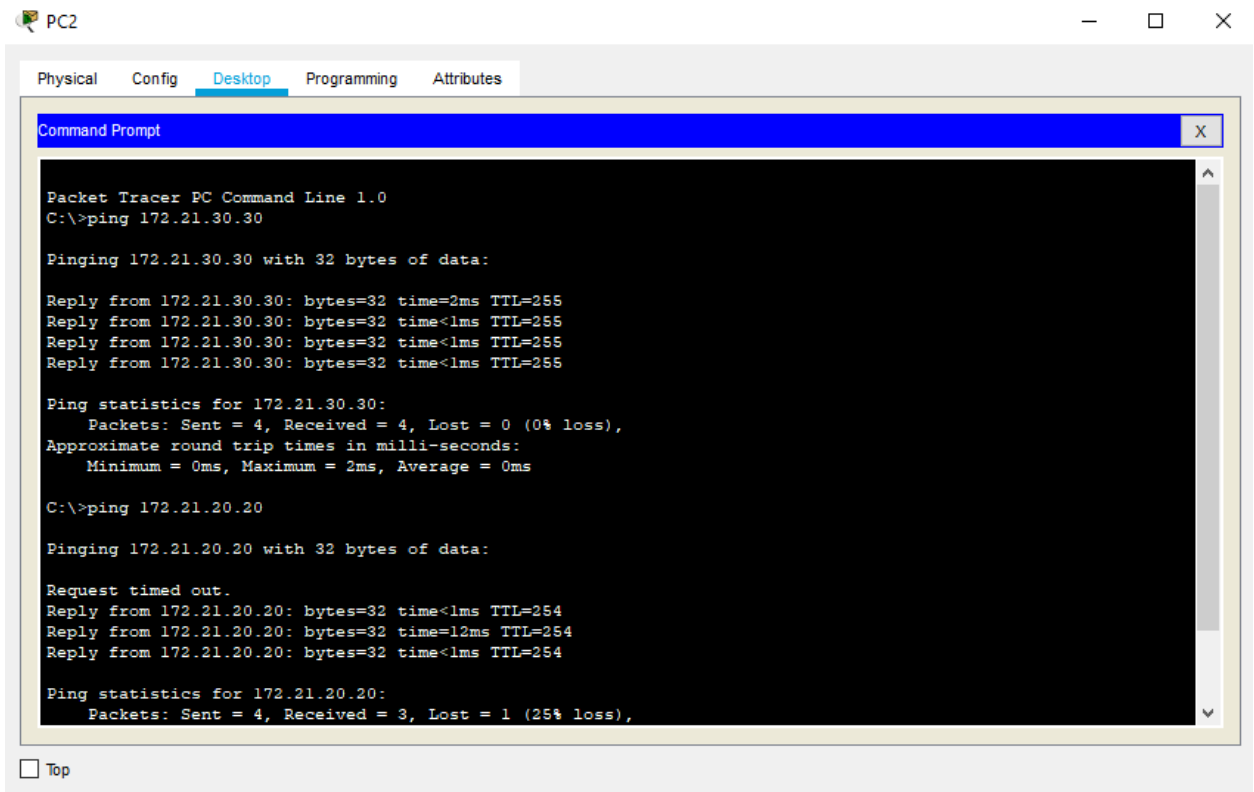
Pinging 172.21.20.21 with 32 bytes of data:

Reply from 172.21.20.21: bytes=32 time=11ms TTL=126
Reply from 172.21.20.21: bytes=32 time=12ms TTL=126
Reply from 172.21.20.21: bytes=32 time=13ms TTL=126
Reply from 172.21.20.21: bytes=32 time=12ms TTL=126

Ping statistics for 172.21.20.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 13ms, Average = 12ms

C:\>
```

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PC2

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.30.30

Pinging 172.21.30.30 with 32 bytes of data:

Reply from 172.21.30.30: bytes=32 time=2ms TTL=255
Reply from 172.21.30.30: bytes=32 time<1ms TTL=255
Reply from 172.21.30.30: bytes=32 time<1ms TTL=255
Reply from 172.21.30.30: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.30.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>ping 172.21.20.20

Pinging 172.21.20.20 with 32 bytes of data:

Request timed out.
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254
Reply from 172.21.20.20: bytes=32 time=12ms TTL=254
Reply from 172.21.20.20: bytes=32 time<1ms TTL=254

Ping statistics for 172.21.20.20:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
```

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Command Prompt

X

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.30.30

Pinging 172.21.30.30 with 32 bytes of data:

Reply from 172.21.30.30: bytes=32 time=14ms TTL=253
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254
Reply from 172.21.30.30: bytes=32 time=10ms TTL=253
Reply from 172.21.30.30: bytes=32 time<1ms TTL=254

Ping statistics for 172.21.30.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 14ms, Average = 6ms

C:\>|
```