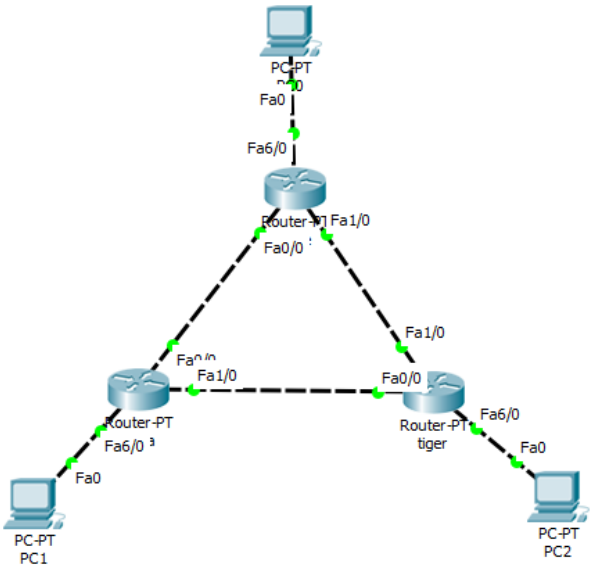
NAMA : JESSICA GUSTIN RAHAJENG
NIM : L200170026
KELAS : A

MODUL 7
STATIC ROUTE, RIP DAN IGRP

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)

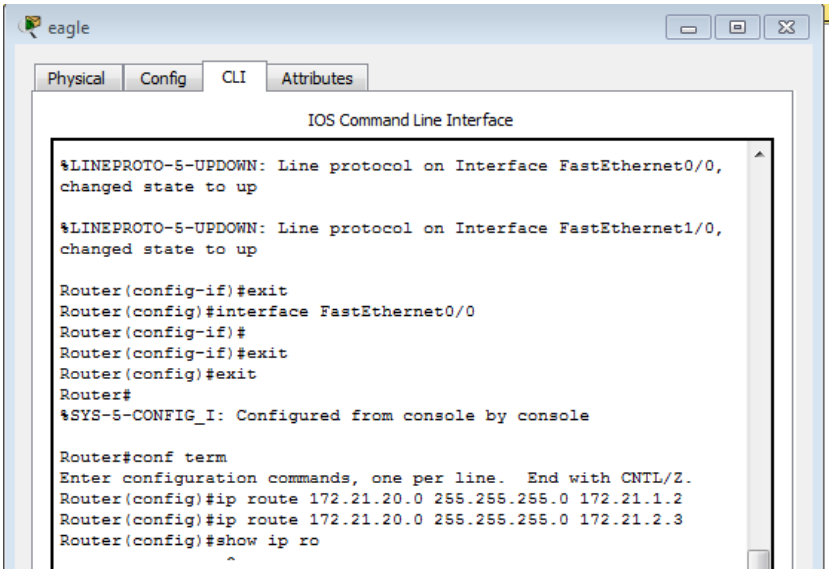
3. Konfigurasi masing-masing interface pada tiap Router dengan alamat IP berikut ini :
   - Eagle (ethernet 0) = 172.21.10.10/24
   - Eagle (serial 0) = 172.21.1.1/24
   - Eagle (serial 1) = 172.21.2.1/24
   - Puma (ethernet 0) = 172.21.20.20/24
   - Puma (serial 0) = 172.21.1.2/24
   - Tiger (serial 1) = 172.21.3.3/24
   - Tiger (serial 1) = 172.21.3.3/24

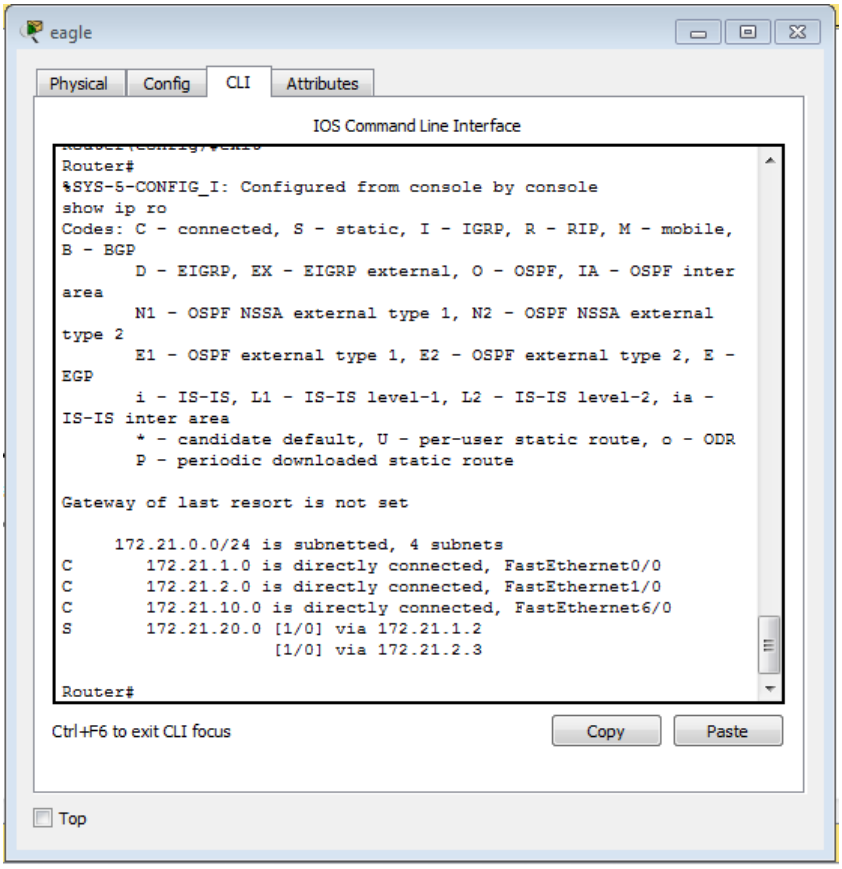
4. Pada mode user atau ode privileged, tambahkan route table pada masing-masing router untuk setiap alamat jaringan yang tidak terhubung secara langsung dengan interface router.

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

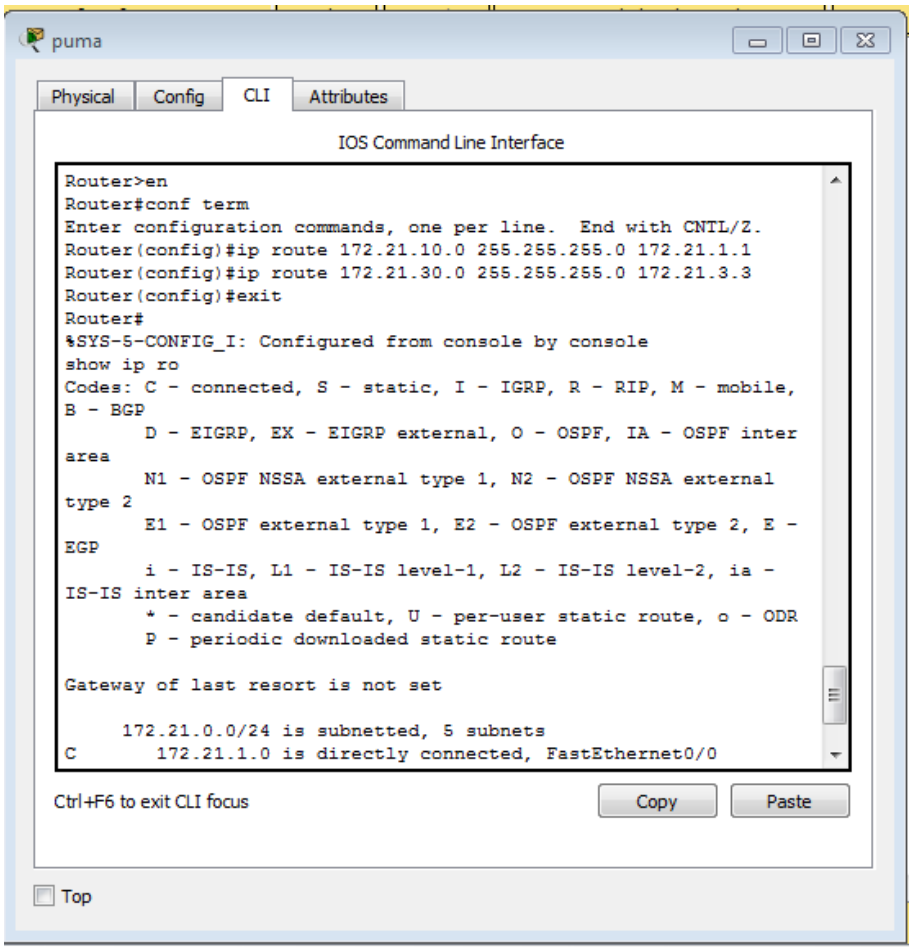
- Masuk mode configuration
- Ketik ***ip route 172.21.20.0 255.255.255.0 172.21.1.2***
- Ketik ***ip route 172.21.30.0 255.255.255.0 172.21.2.3***

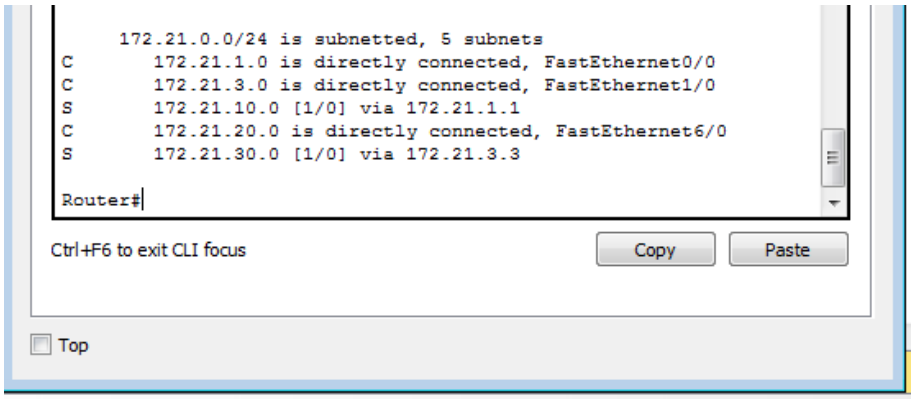
EAGLE





PUMA


puma
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.3.3
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip ro
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 172.21.1.0 is directly connected, FastEthernet0/0
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


172.21.0.0/24 is subnetted, 5 subnets
C 172.21.1.0 is directly connected, FastEthernet0/0
C 172.21.3.0 is directly connected, FastEthernet1/0
S 172.21.10.0 [1/0] via 172.21.1.1
C 172.21.20.0 is directly connected, FastEthernet6/0
S 172.21.30.0 [1/0] via 172.21.3.3
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

TIGER

```
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)#show ip ro
                  ^
% Invalid input detected at '^' marker.

Router(config)#exit
```

Ctrl+F6 to exit CLI focus Copy Paste

Top

tiger

Physical | Config | CLI | Attributes

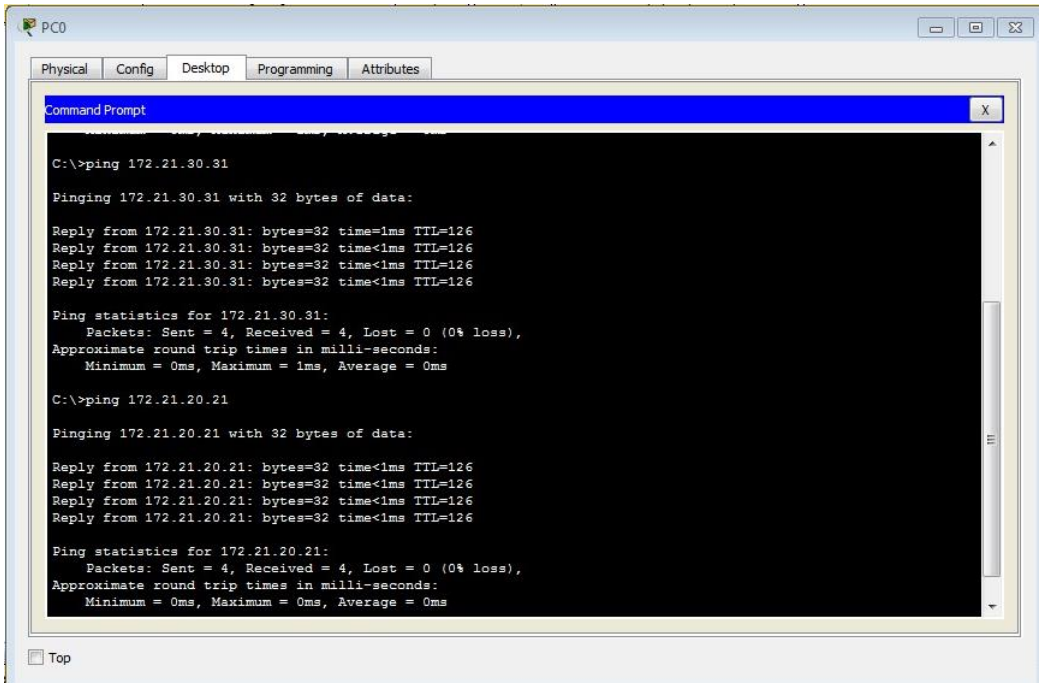
IOS Command Line Interface

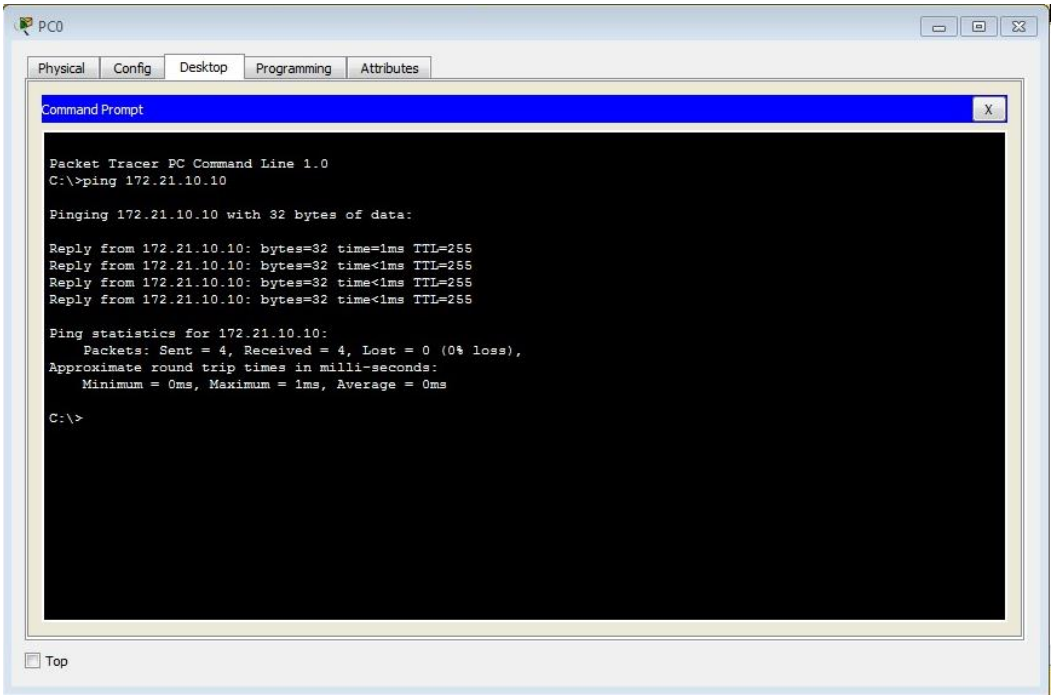
```
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip ro
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile,
B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter
area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
type 2
       E1 - OSPF 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 172.21.3.2
C       172.21.30.0 is directly connected, FastEthernet6/0

Router#
```

Ctrl+F6 to exit CLI focus Copy Paste

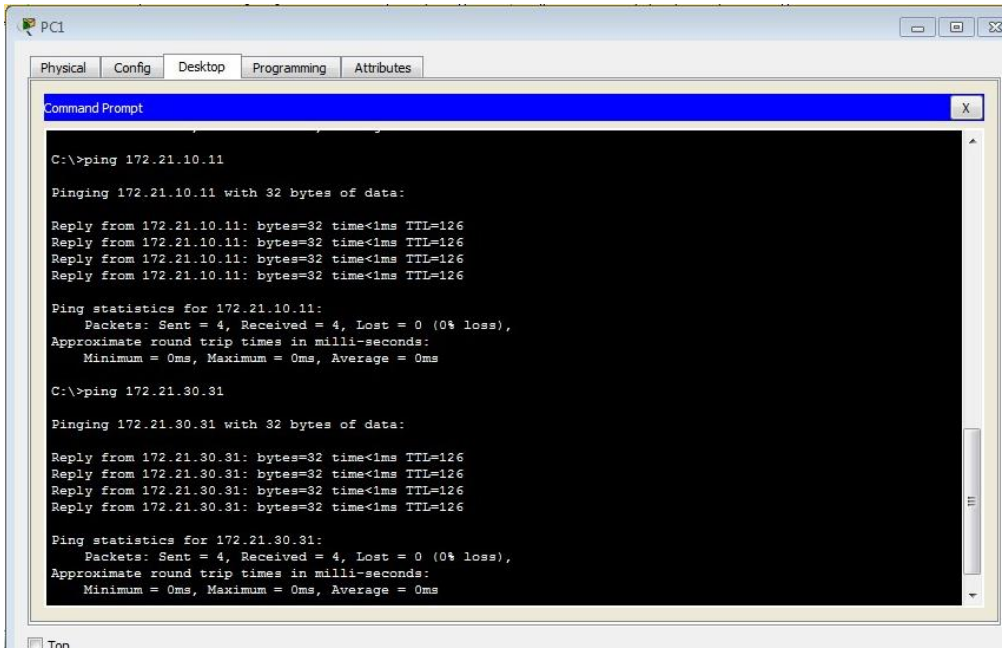
Top

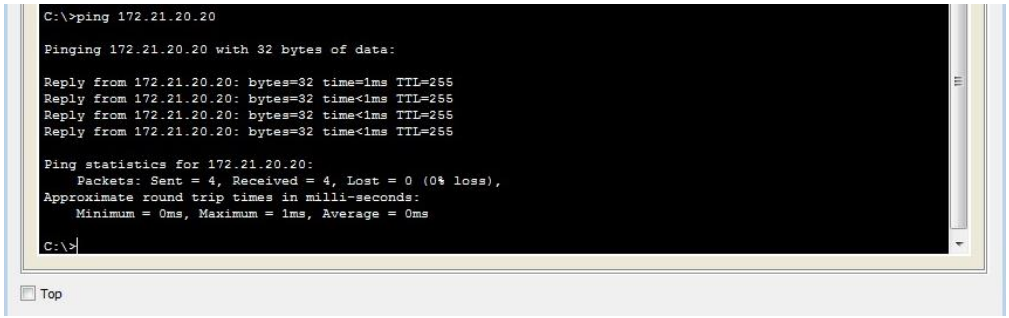
5. Hasil Ping dari PC Aries ke router eagle dan PC Virgo ke router eagle



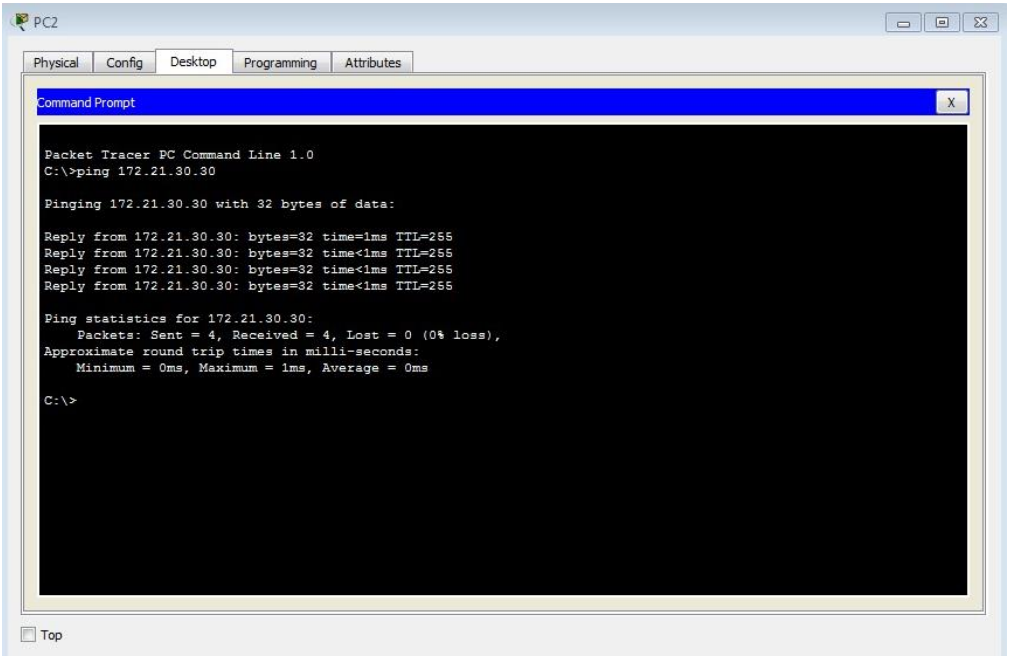


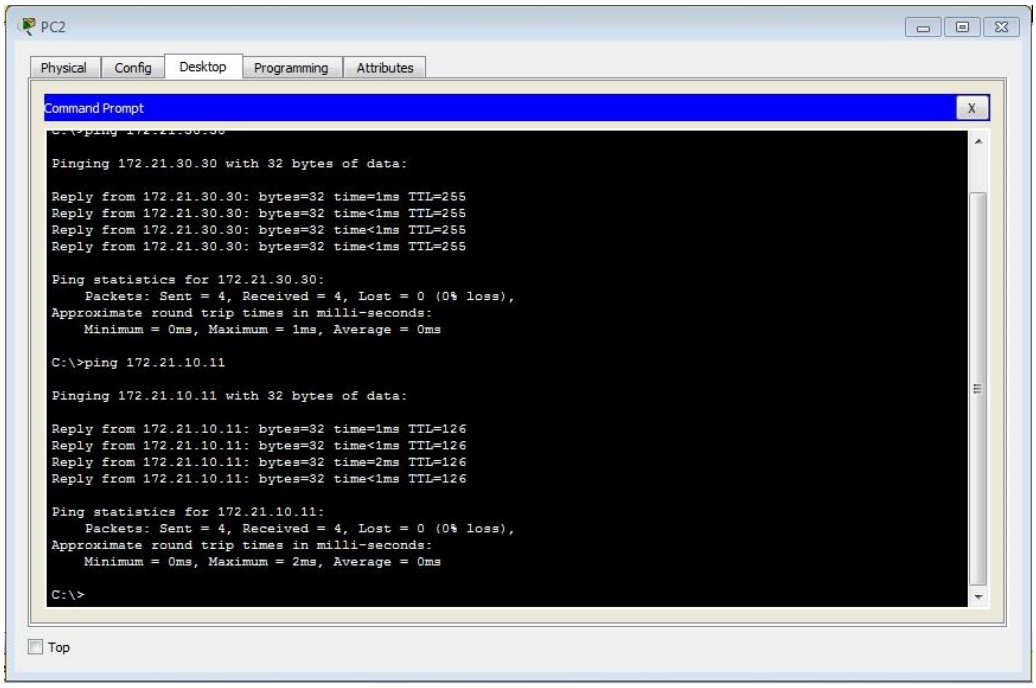
Hasil ping dari PC virgo ke router Puma

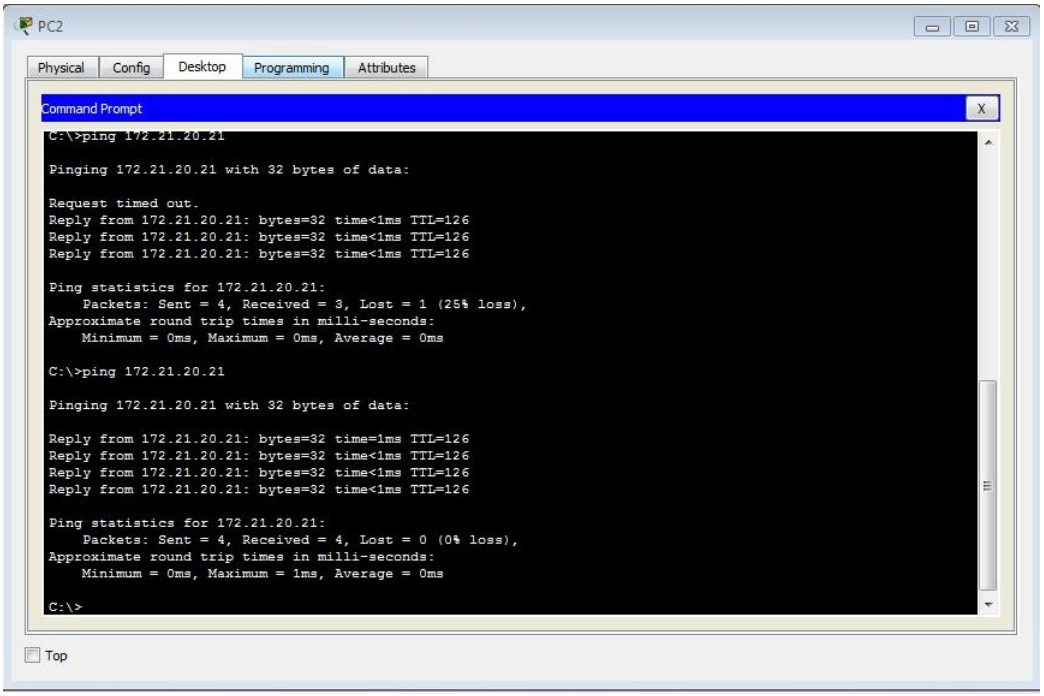




Hasil ping dari PC leo ke router Tiger dan PC Aries ke router Tiger




PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Pinging 172.21.30.30 with 32 bytes of data:
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
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 = 1ms, Average = 0ms
C:\>ping 172.21.10.11
Pinging 172.21.10.11 with 32 bytes of data:
Reply from 172.21.10.11: bytes=32 time=1ms TTL=126
Reply from 172.21.10.11: bytes=32 time<1ms TTL=126
Reply from 172.21.10.11: bytes=32 time=2ms TTL=126
Reply from 172.21.10.11: bytes=32 time<1ms TTL=126
Ping statistics for 172.21.10.11:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 0ms
C:\>
Top


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
C:\>ping 172.21.20.21
Pinging 172.21.20.21 with 32 bytes of data:
Request timed out.
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Ping statistics for 172.21.20.21:
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=1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms TTL=126
Reply from 172.21.20.21: bytes=32 time<1ms 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 = 0ms, Maximum = 1ms, Average = 0ms
C:\>
Top