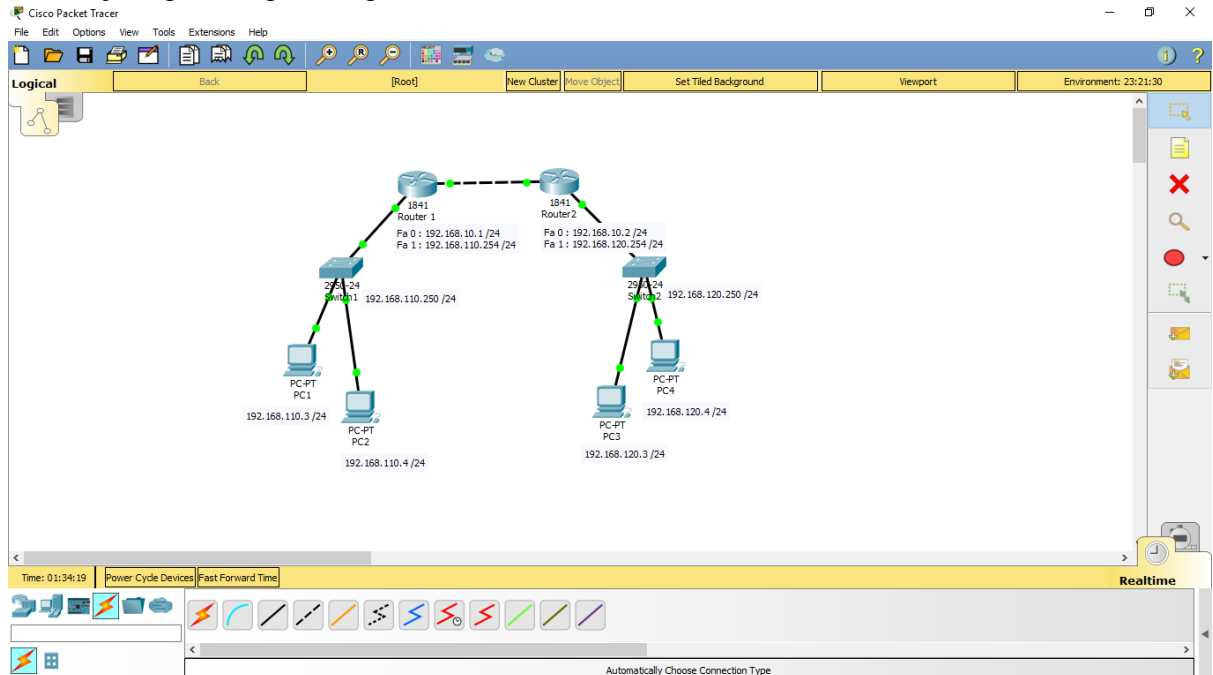


NAMA : Fitri Cahya Kusumawati
NIM : L200170110
KELAS : C
MODUL : 8

Kegiatan 1

1. Desain jaringan dengan 2 router, 2 switch, dan 2 PC



2. Konfigurasi alamat IP untuk Switch 1

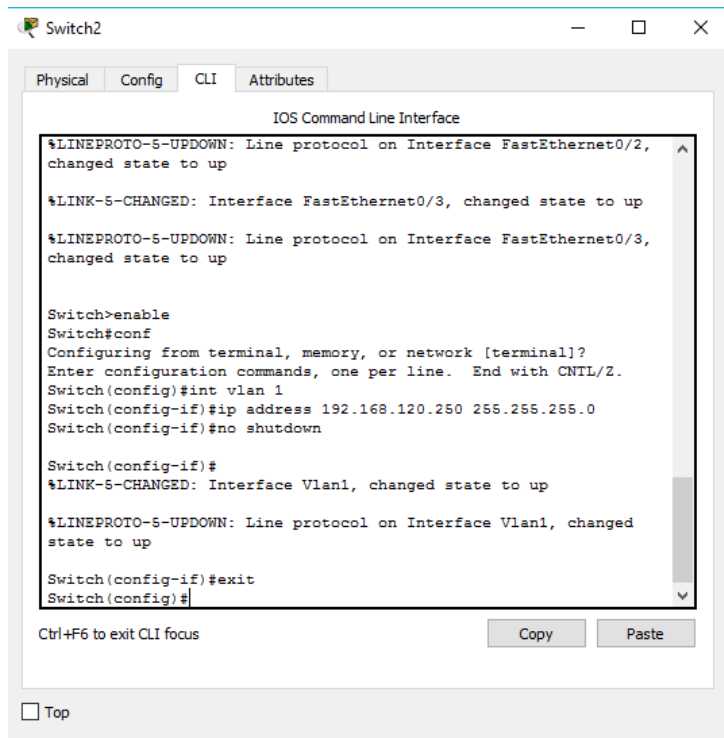
```
Switch1
Physical Config CLI Attributes
IOS Command Line Interface
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to up

Switch>enable
Switch#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int vlan 1
Switch(config-if)#ip address 192.168.110.250 255.255.255.0
Switch(config-if)#no shutdown

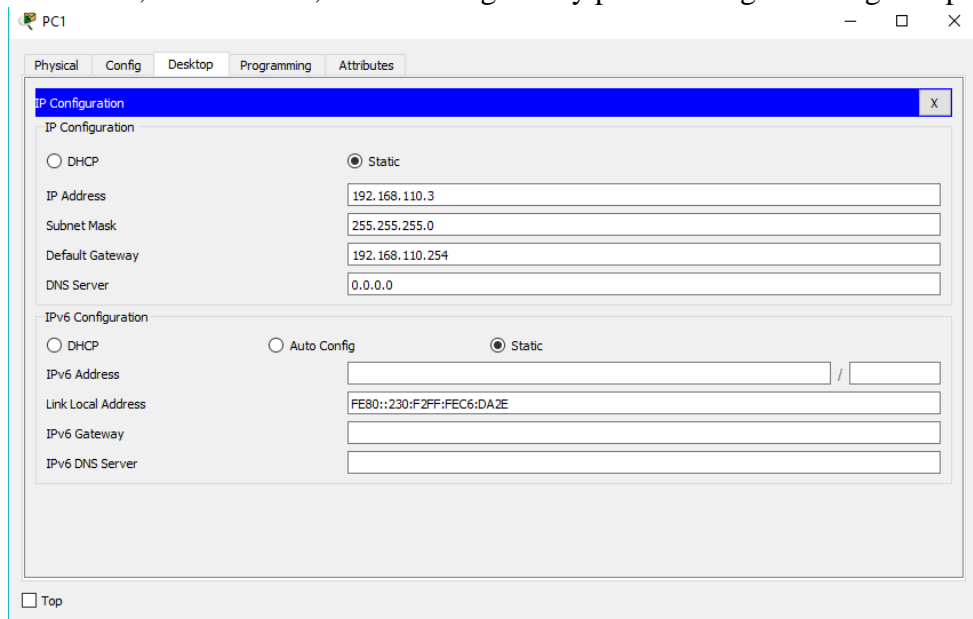
Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed
state to up

Switch(config-if)#exit
Switch(config)#
```

3. Konfigurasi alamat IP untuk switch 2



4. Alamat IP, subnet mask, dan default gateway pada masing – masing komputer



PC2

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.110.4

Subnet Mask 255.255.255.0

Default Gateway 192.168.110.254

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::207:ECFF:FEAC:29B6

IPv6 Gateway

IPv6 DNS Server

Top

PC3

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.120.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.120.254

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

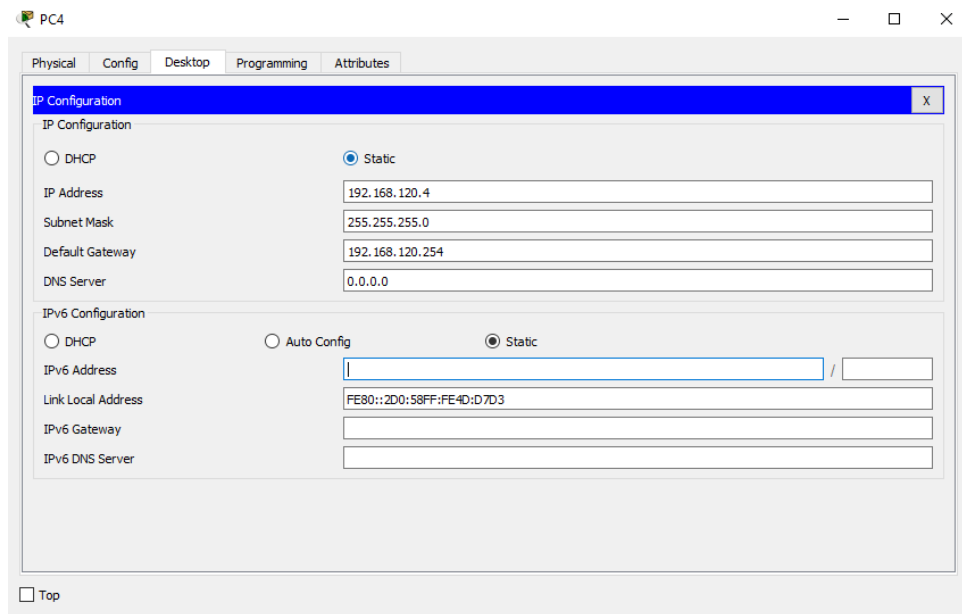
IPv6 Address /

Link Local Address FE80::20A:41FF:FE7D:AC36

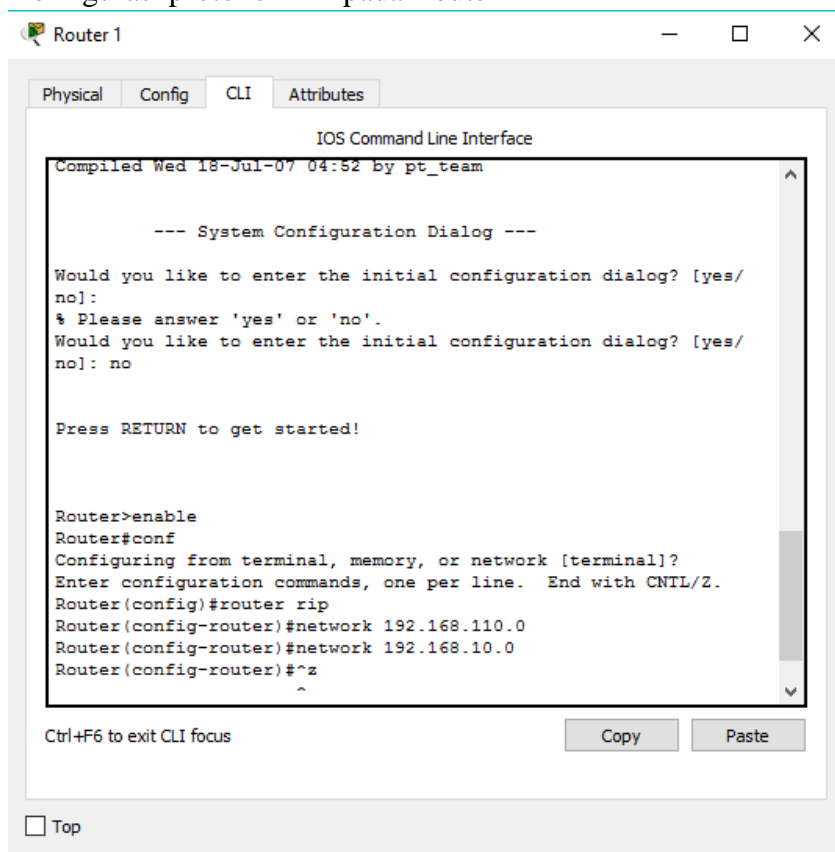
IPv6 Gateway

IPv6 DNS Server

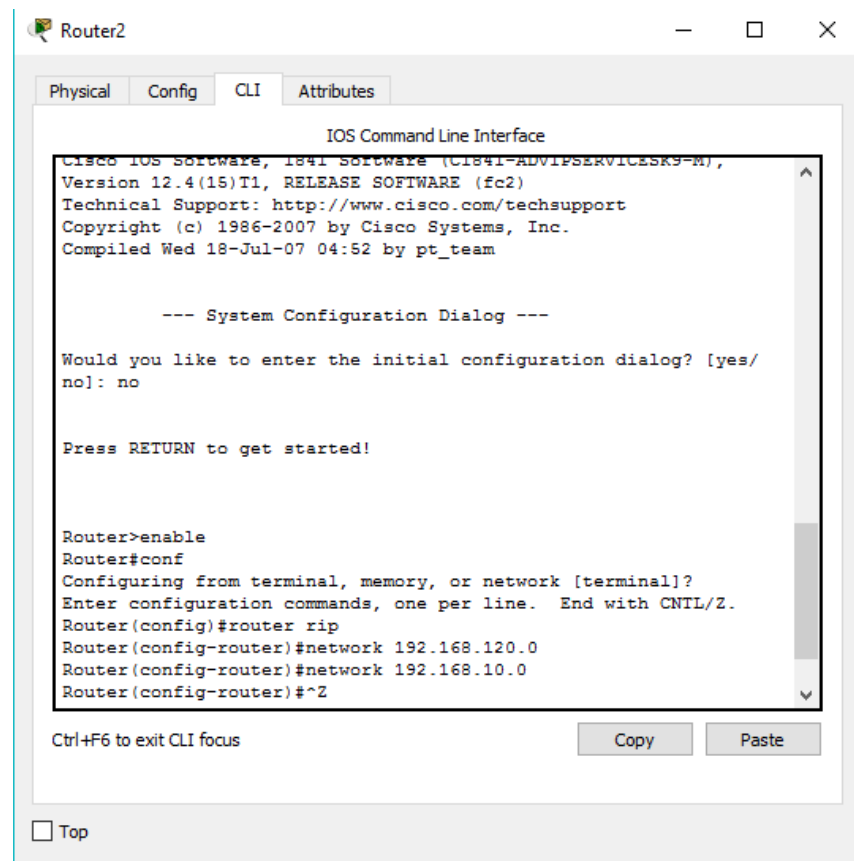
Top



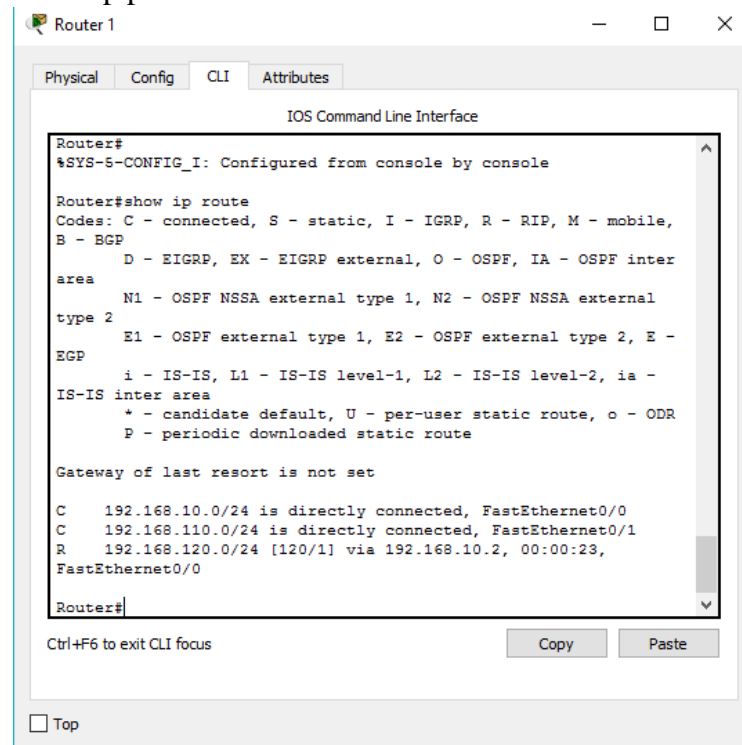
5. Gunakan routing dengan protokol RIP pada kedua jaringan
Konfigurasi protokol RIP pada Router 1



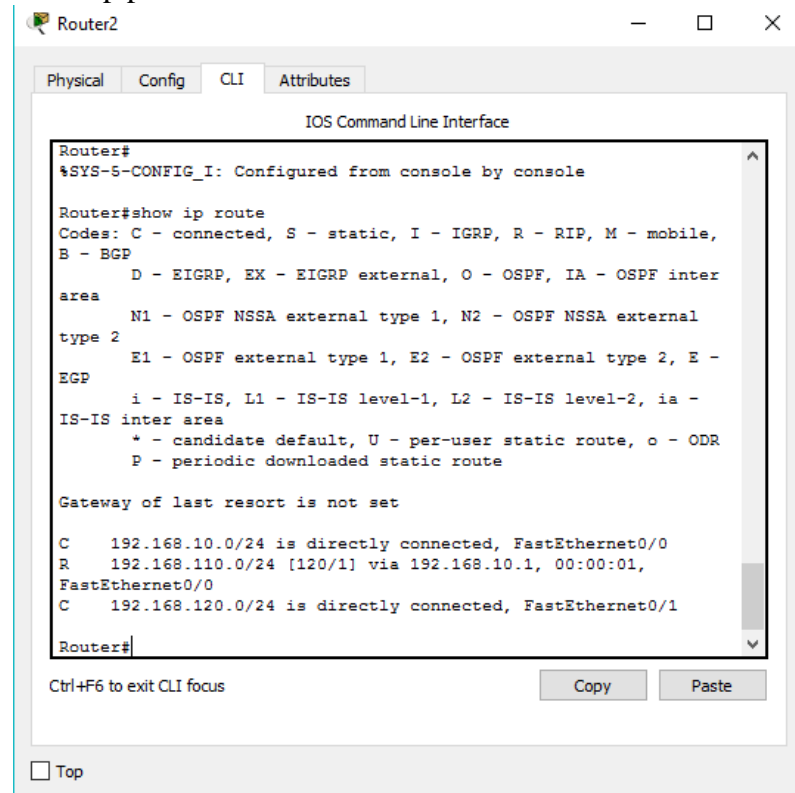
Konfigurasi protokol RIP pada Router 2



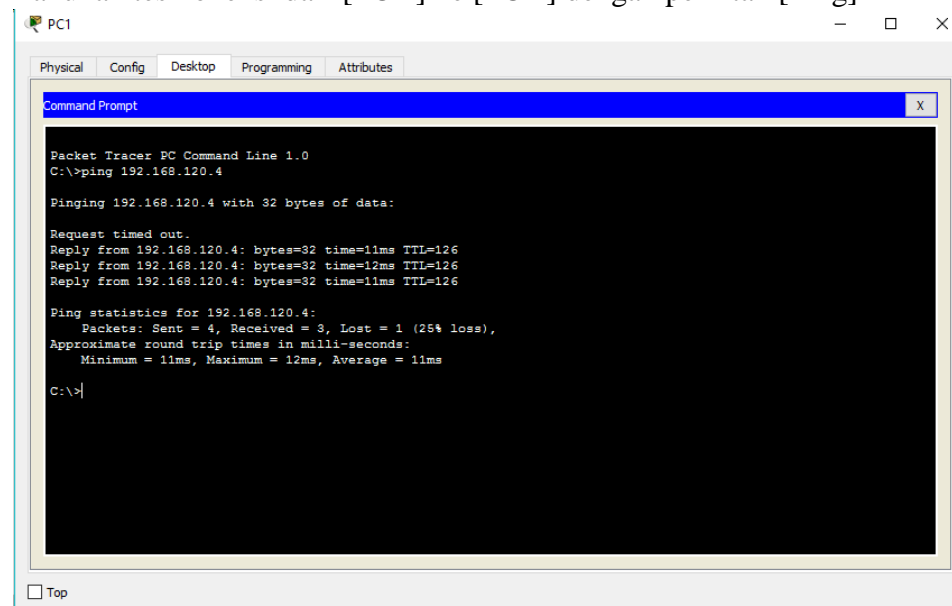
6. Pengecekan tabel routing pada kedua router dengan perintah [show ip route]
Show ip pada router 1



Show ip pada router 2



7. Lakukan tes koneksi dari [PC 1] ke [PC 4] dengan perintah [Ping]



8. Access list 192.168.120 ke 192.168.110 pada router 1

```
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 10 permit 192.168.120.0 0.0.255.255
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

9. Access list 10 untuk interface e1

```
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/1
Router(config-if)#ip access-group 10 out
Router(config-if)#^Z
```

Ctrl+F6 to exit CLI focus

Copy Paste

10. Show running-config pada routing 1

```
!
interface FastEthernet0/1
ip address 192.168.110.254 255.255.255.0
ip access-group 10 out
duplex auto
speed auto
!
```

Ctrl+F6 to exit CLI focus

Copy Paste

11. Tes koneksi dari [PC 1] ke [PC 3] dengan perintah [Ping]

PC3

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:

Reply from 192.168.110.3: bytes=32 time=2ms TTL=126
Reply from 192.168.110.3: bytes=32 time=11ms TTL=126
Reply from 192.168.110.3: bytes=32 time=12ms TTL=126
Reply from 192.168.110.3: bytes=32 time=11ms TTL=126

Ping statistics for 192.168.110.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 12ms, Average = 9ms

C:\>
```

Top

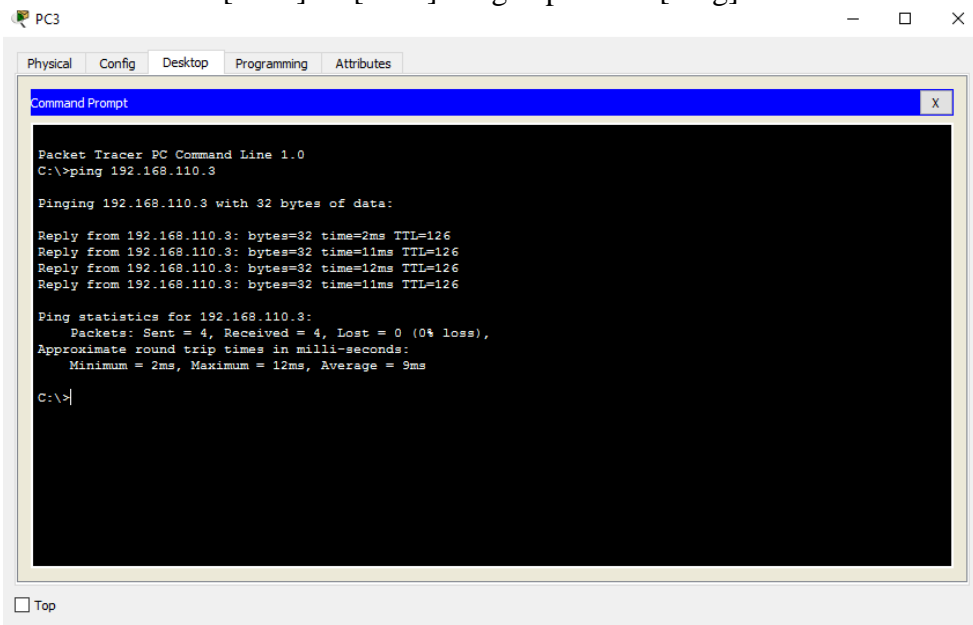
12. Access list 20 untuk 192.168.120.4

```
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 20 permit 192.168.120.4 0.0.0.0
Router(config)#^Z
```

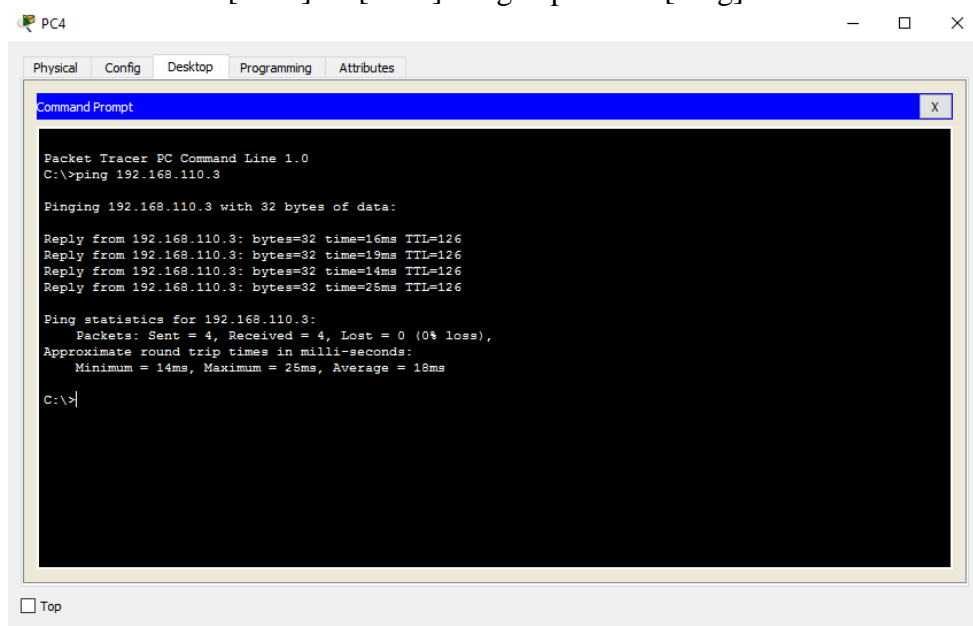
13. Penerapan Access list 20 pada Ethernet 1

```
Router#CONF
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/1
Router(config-if)#ip access-group 20 out
Router(config-if)#^Z
```

14. Tes koneksi dari [PC 3] ke [PC 1] dengan perintah [Ping]



15. Tes koneksi dari [PC 4] ke [PC 1] dengan perintah [Ping]



Kegiatan 2

Cara dan penerapan mengkonfigurasi Extended Access List

