Muhibah Fata Tika
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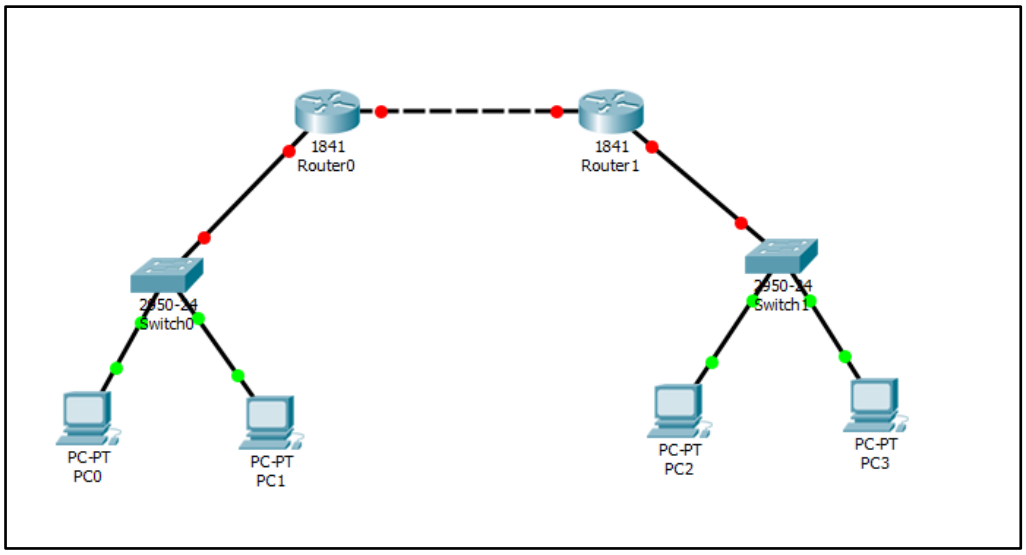
Tugas Praktikum Jarkom
Modul 8
Packet Filtering dengan Access List

Kegiatan 1. Konfigurasi Access List

Ikuti langkah-langkah berikut ini mengkonfigurasi Access List pada ilustrasi tersebut :

- Desain jaringan



- Memberikan alamat IP yang digunakan sebagai default gateway bagi semua komputer.

- Switch 0

```
Switch>en
Switch#conf term
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 shut

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
```

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- Switch 1

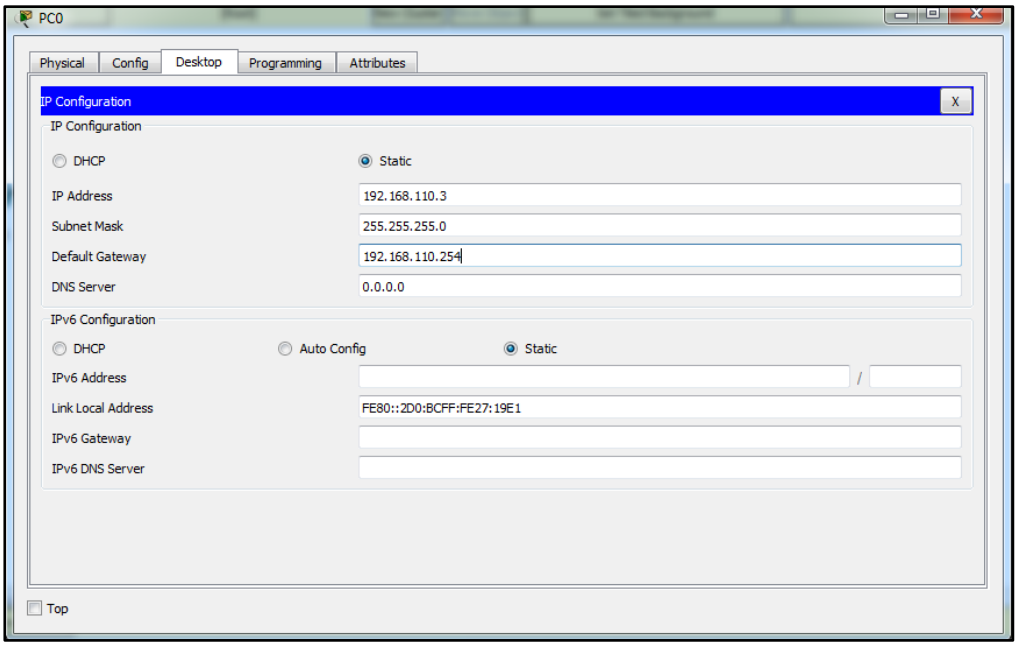
```
Switch>en
Switch#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#int vlan 1
Switch(config-if)#ip address 192.168.120.250 255.255.255.0
Switch(config-if)#no shut

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. Memberikan alamat IP,subnet mask, dan default gateway pada pc 0



- Memberikan alamat ip,subnet mask, dan default gateway pada pc 1

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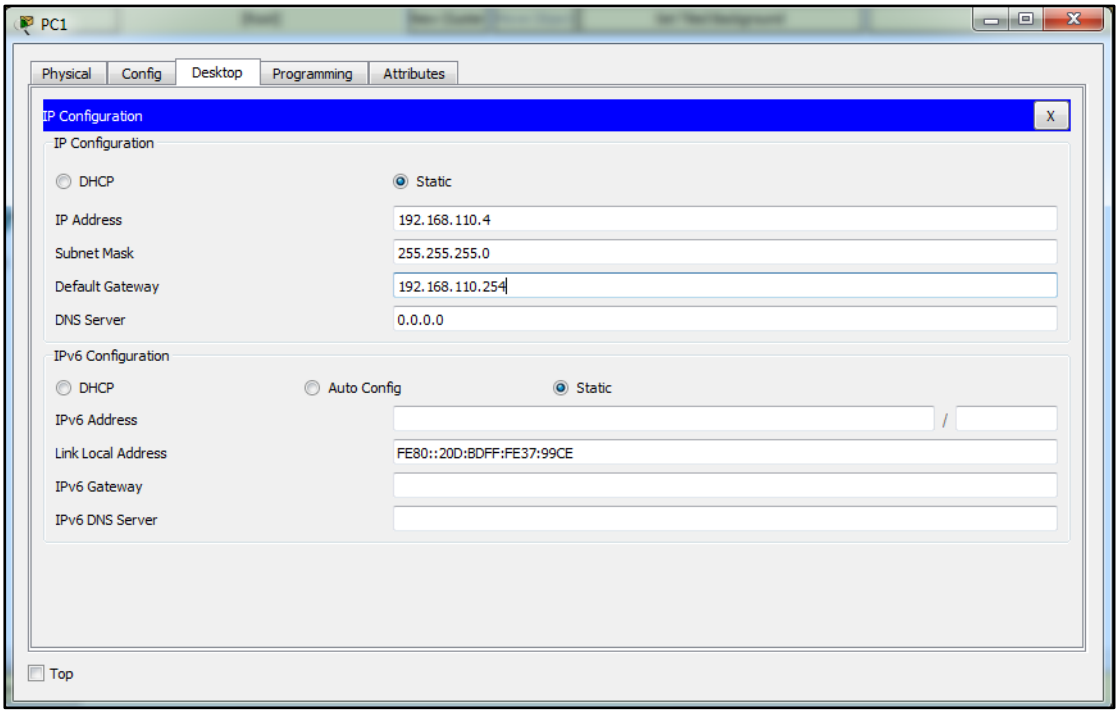
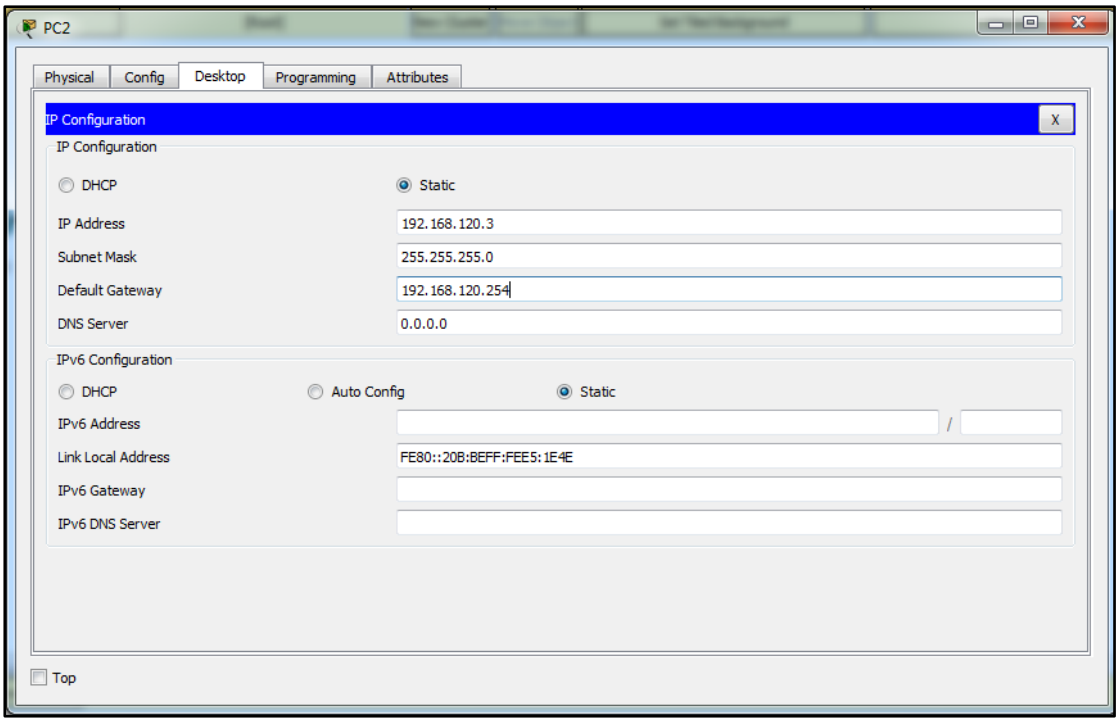


- Memberikan alamat ip,subnet mask, dan default gateway pada pc 2



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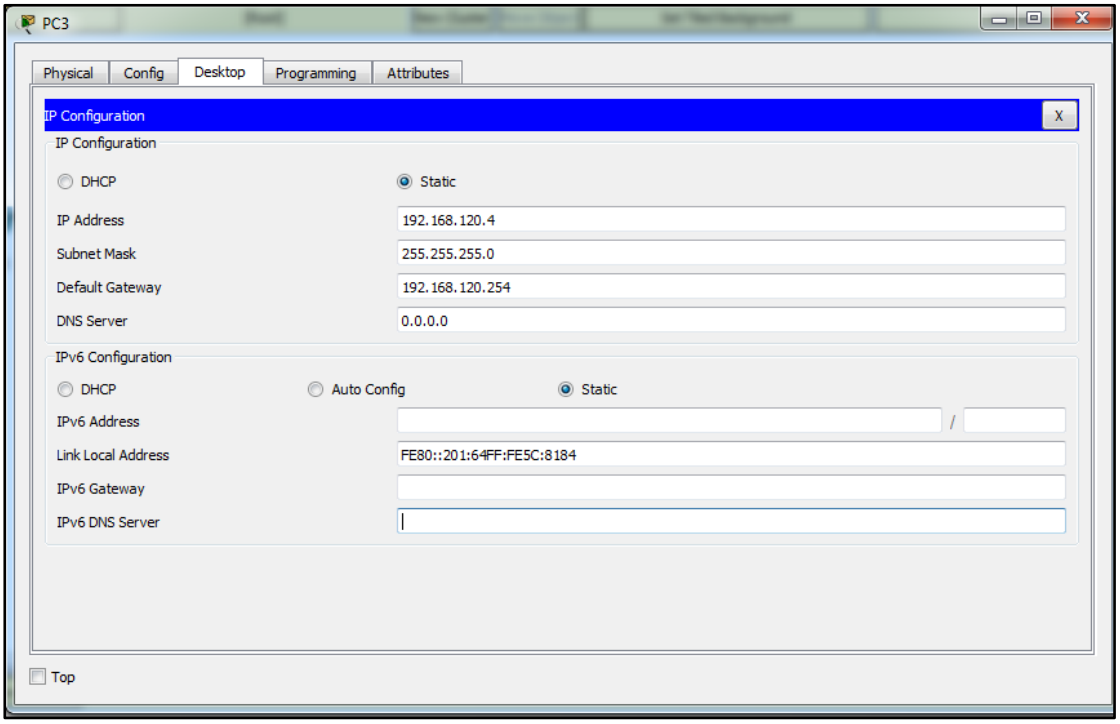
- Memberikan alamat ip,subnet mask, dan default gateway pada pc 3



- Memberikan ip pada router 0,Fa 0/0

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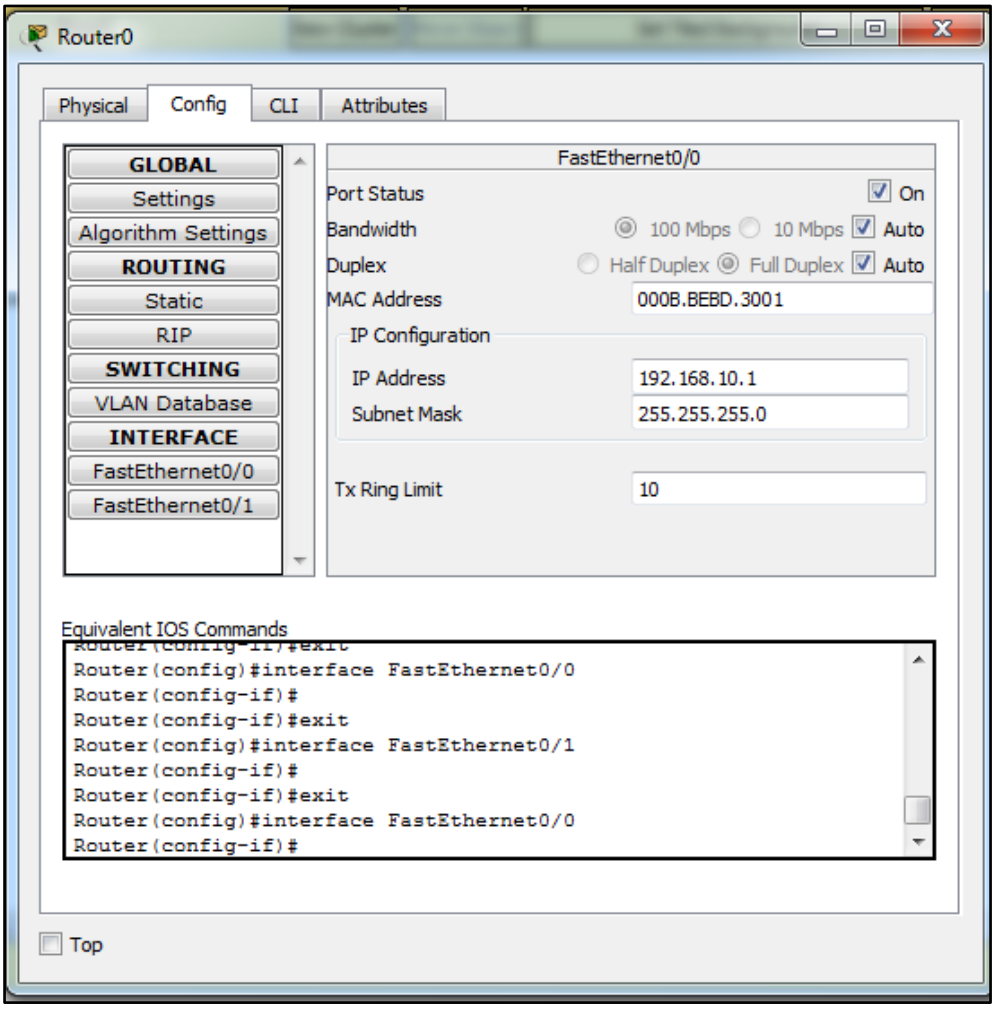

- Memberikan ip pada router 0 , Fa 0/1

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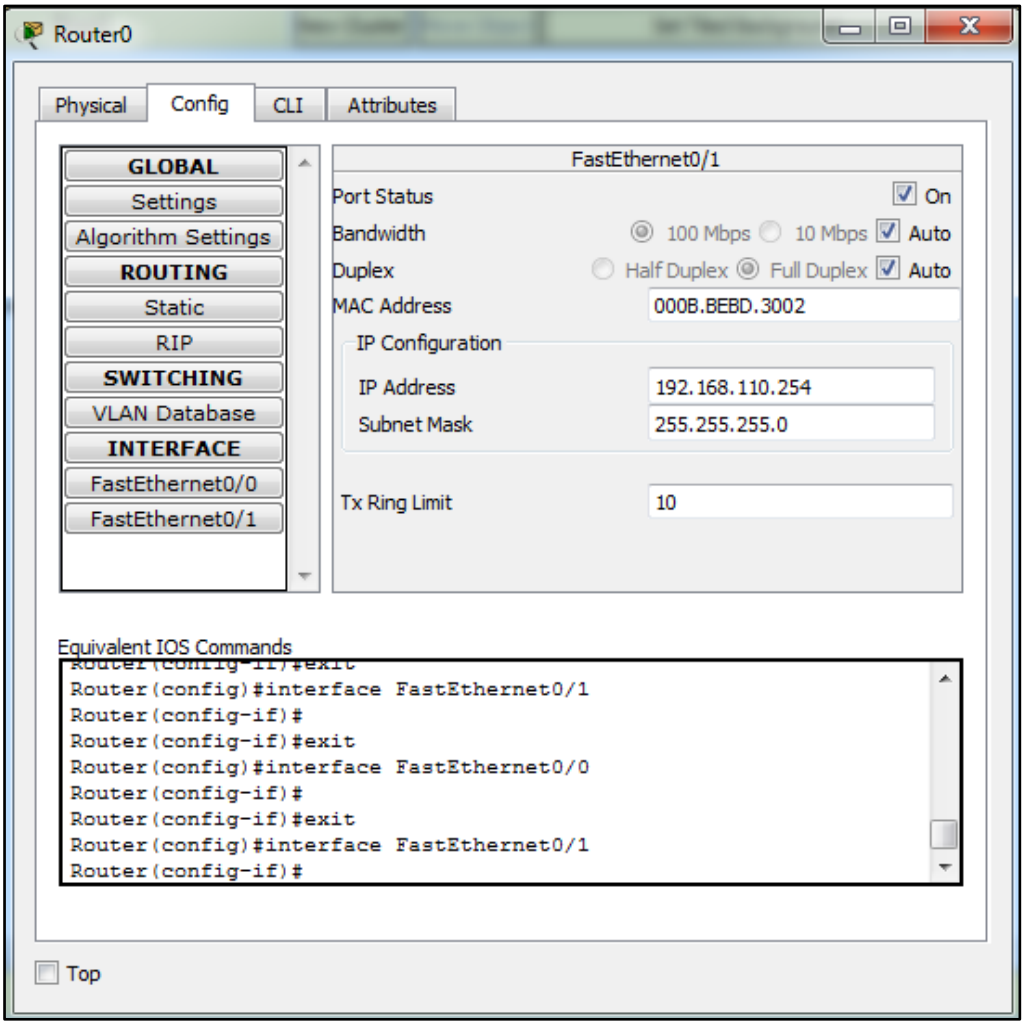

- Memberikan ip pada router 1, Fa 0/0

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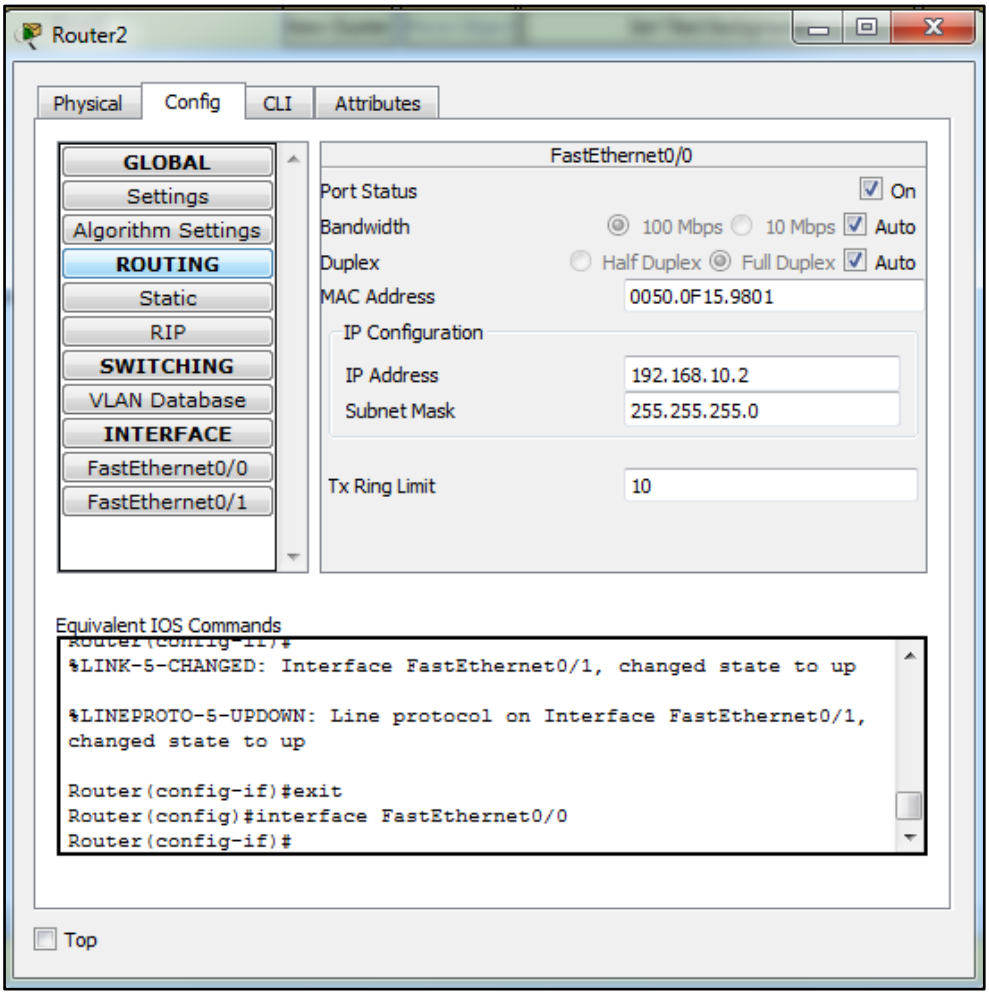

- Memberikan ip pada router 1, Fa 0/1

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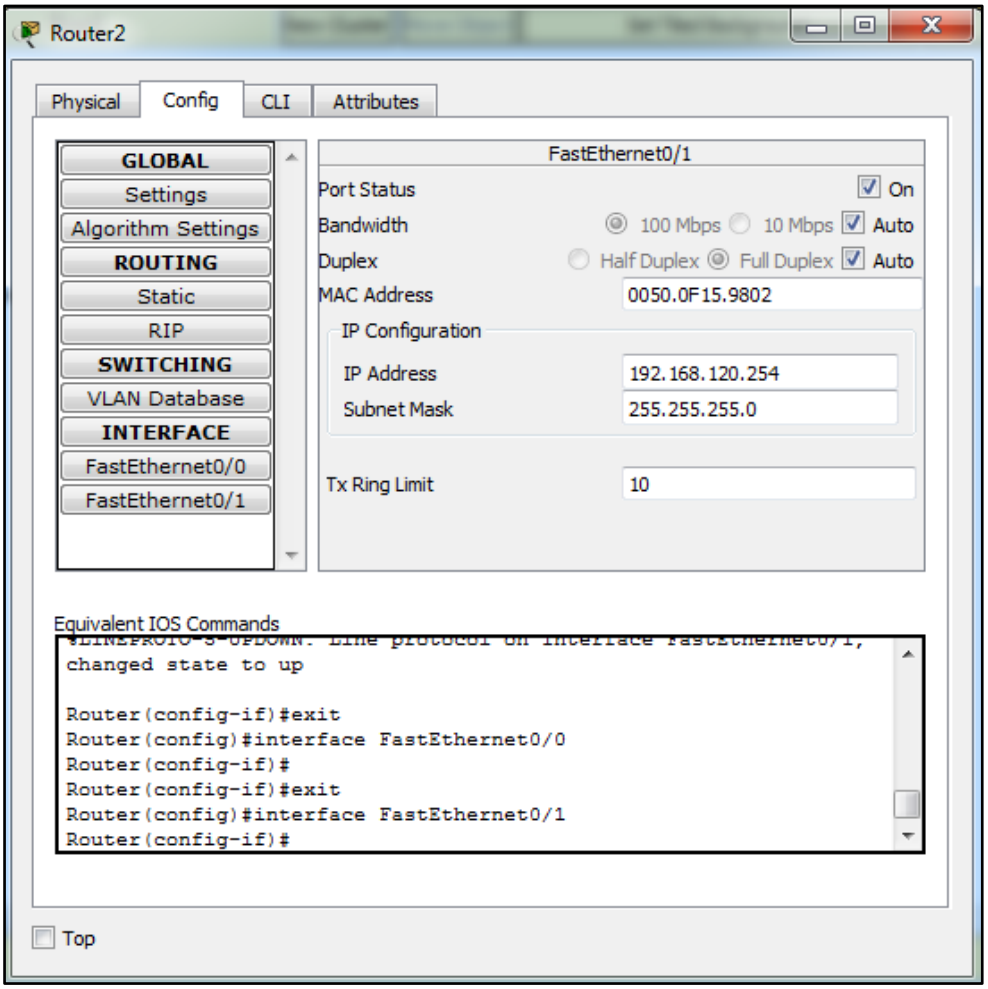

4. Konfigurasi protokol RIP pada router 0

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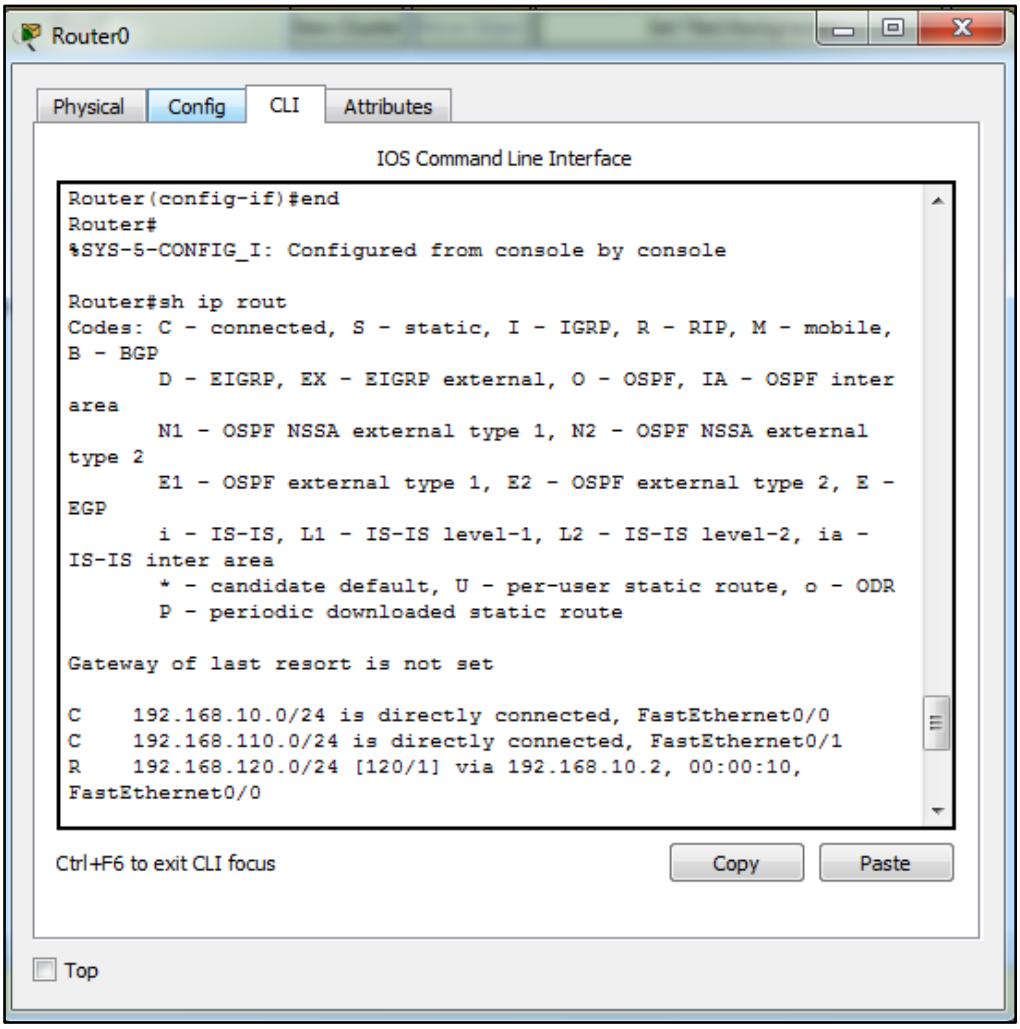

- Konfigurasi protokol RIP pada router 1

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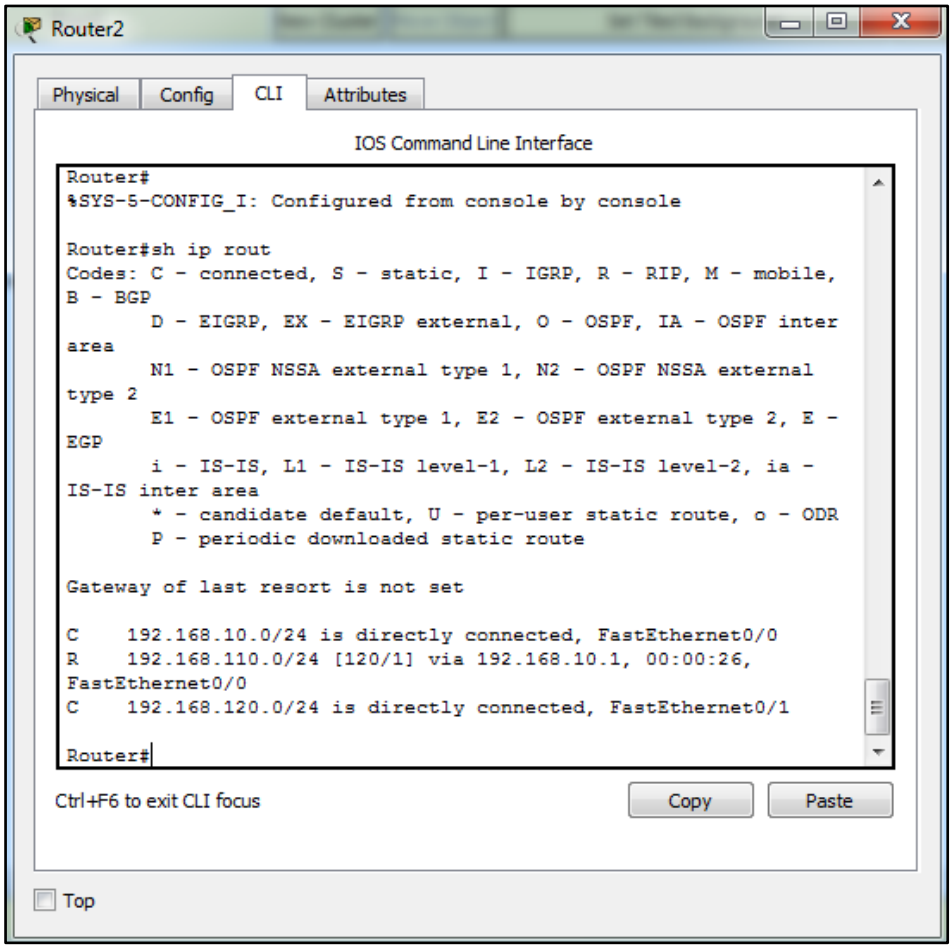

5. Melakukan pengecekan tabel routing pada router 0

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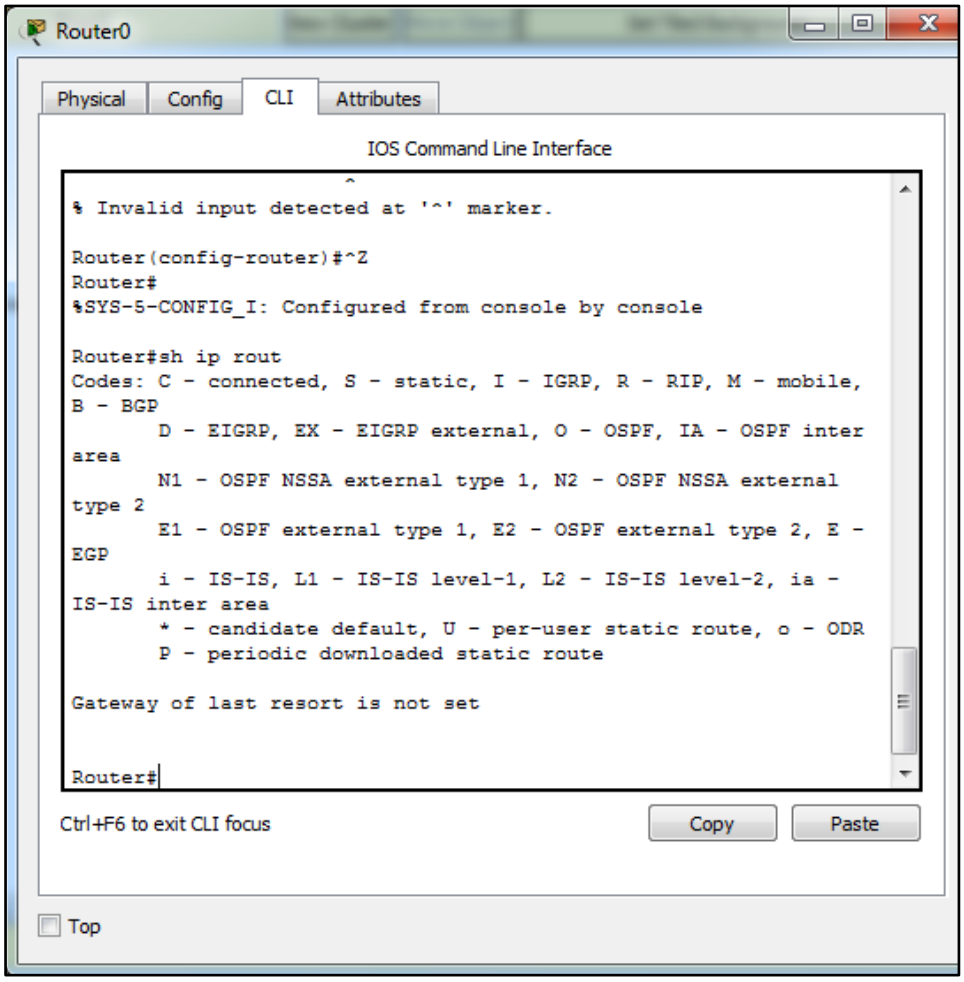

- Melakukan pengecekan tabel routing pada router 1

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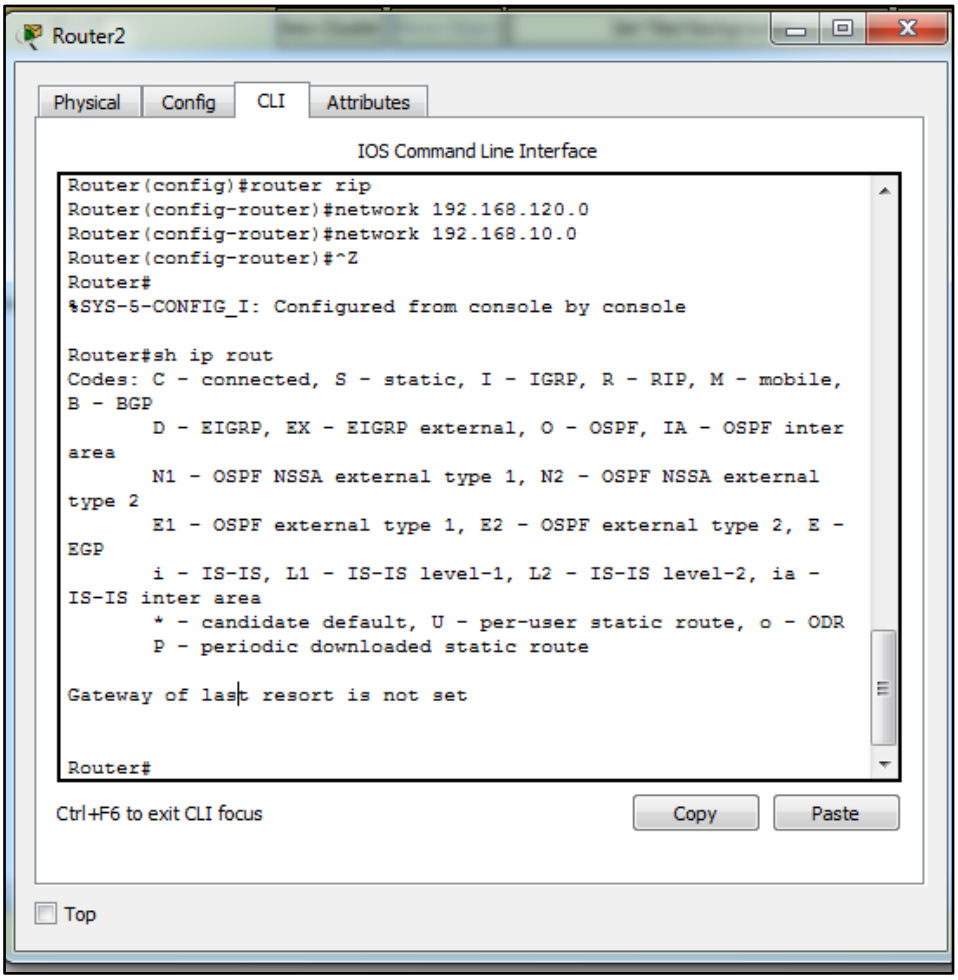
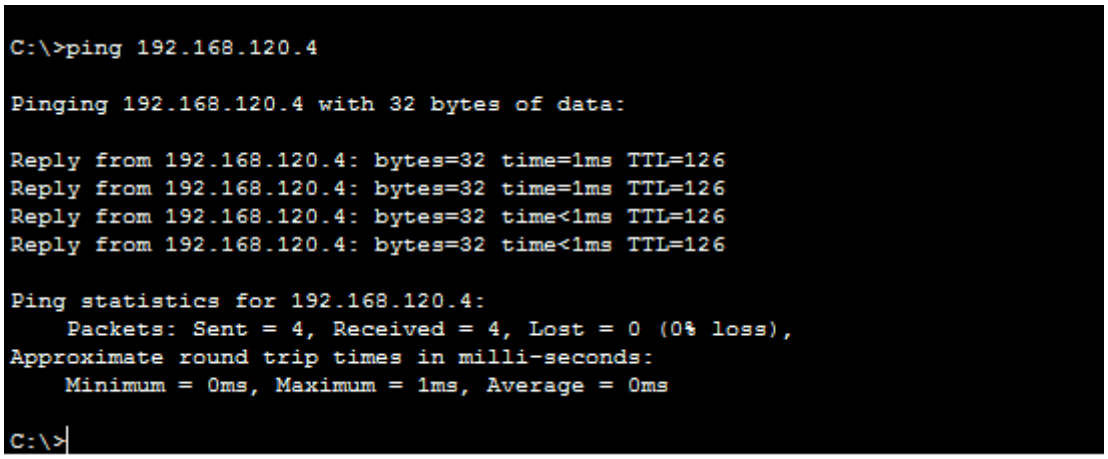


6. Tes koneksi dari pc 1 ke pc 4



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7. Berikutnya menentukan access list yang akan diterapkan pada router 1

```
Router(config-if)#access-list 10 permit 192.168.120.0 0.0.255.255
Router(config)#conf t
%Invalid hex value
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

8. menerapkan accesss list ke interface router 1 yang mengarah ke dalam jaringan 192.168.110.0

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa 0/1
Router(config-if)#ip access-group 10 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

9. Melihat konfigurasi access list pada router 1

```
Router#sh access-lists
Standard IP access list 10
    10 permit 192.168.0.0 0.0.255.255

Router#
```

10. Melihat konfigurasi access list pada ethernet 1

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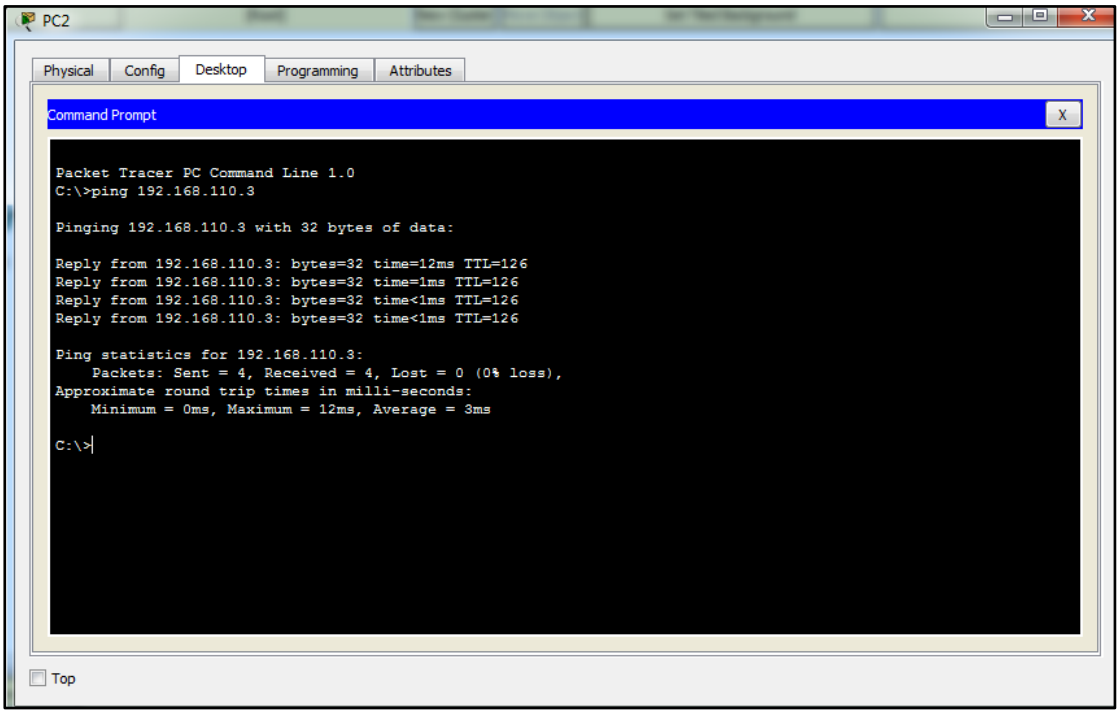
```
Router#show running-config
Building configuration...

Current configuration : 734 bytes
!
version 12.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
 --More--
```

11. Tes koneksi antara pc 3 ke pc 1



12. Memberikan hak akses pada satu host pc 4 dengan alamat ip 192.168.120.4 agar dapat mengakses ke jaringan 192.168.110.0

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```
Router#
Router#
Router#
Router#conf t
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
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

13. Menerapkan access list 20 tersebut ke interface ethernet 1 pada router 1

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa 0/1
Router(config-if)#ip access-group 20 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

14. Tes koneksi dari pc 3 ke pc 1

```
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:

Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.

Ping statistics for 192.168.110.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

- Tes koneksi dari pc 3 ke pc 2

```
C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:

Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.

Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

15. Tes koneksi dari pc 4 ke pc 1

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```
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=1ms TTL=126
Reply from 192.168.110.3: bytes=32 time<1ms TTL=126
Reply from 192.168.110.3: bytes=32 time<1ms TTL=126
Reply from 192.168.110.3: bytes=32 time<1ms 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 = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

- Tes koneksi dari pc 4 ke pc 2

```
C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:

Reply from 192.168.110.4: bytes=32 time=1ms TTL=126
Reply from 192.168.110.4: bytes=32 time<1ms TTL=126
Reply from 192.168.110.4: bytes=32 time=1ms TTL=126
Reply from 192.168.110.4: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Kegiatan 2. Konfigurasi Extended Access List

Untuk konfigurasi extended access list dengan perintah sebagai berikut :

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip access-group 100 in
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

Cara menerapkan access list ke interface router dengan perintah dibawah ini :

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip access-group 100 in
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```