**Muhibah Fata Tika**
**L200170156**
**D**
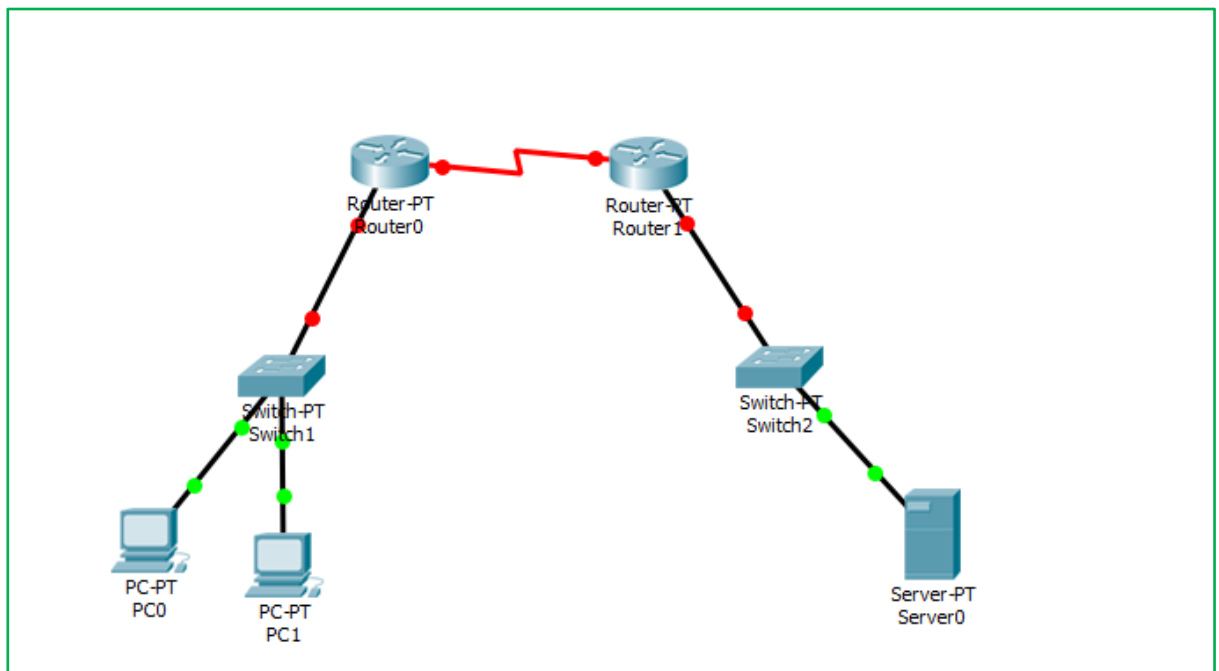**Jarkom**

<div align="center">

**Laporan Praktikum**
**Jaringan Komputer**
**Modul 9**
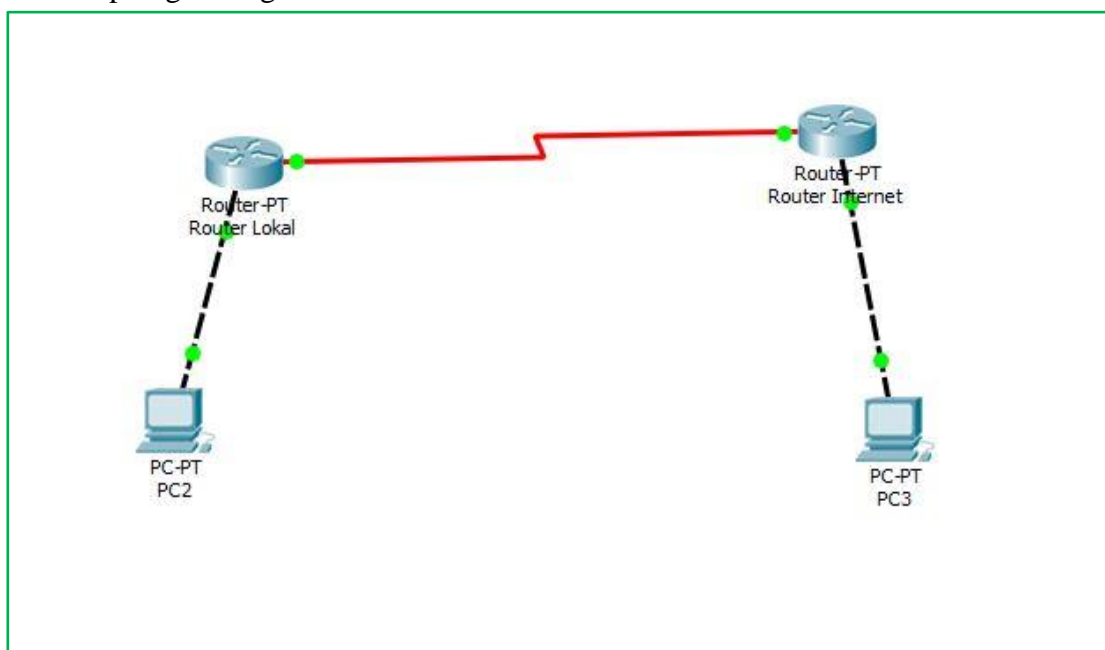**"Pengenalan Static Network Address Translation Pada Router Cisco"**

</div>

**Kegiatan Praktikum**

1. Topologi Praktek
   Persiapkan topologi jaringan seperti pada gambar :
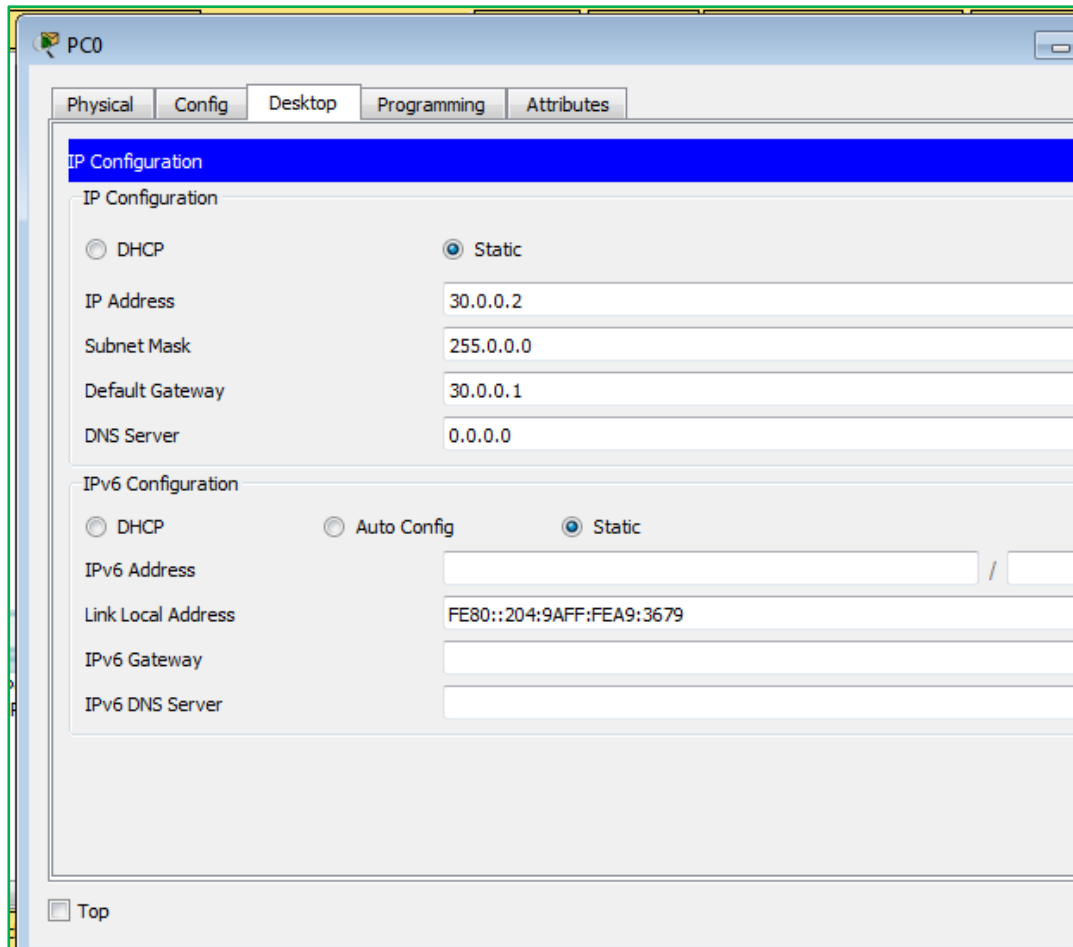


2. Buat Topologi Jaringan

3. Beri alamat IP PC 0



4. Beri alamat IP PC 1

5. Beri IP webserver



6. Konfigurasi Router Internet

Router Internet

Physical | Config | CLI | Attributes

IOS Command Line Interface

```
                System Configuration Dialog

Would you like to enter the initial configuration dialog? [yes/no]: no


Press RETURN to get started!



Router>en
Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Internet
Internet(config)#int fa0/0
Internet(config-if)#ip address 10.0.0.1 255.0.0.0
Internet(config-if)#no shutdown

Internet(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Internet(config-if)#exit
Internet(config)#int Se2/0
Internet(config-if)#ip address 20.0.0.2 255.0.0.0
Internet(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Internet(config-if)#exit
Internet(config)#
Internet(config)#ip route 30.0.0.0 255.0.0.0 20.0.0.1
Internet(config)#ip nat inside source static 10.0.0.2 50.0.0.1
Internet(config)#int fa0/0
Internet(config-if)#ip nat inside
Internet(config-if)#exit
Internet(config)#int se2/0
Internet(config-if)#ip nat outside
Internet(config-if)#exit
Internet(config)#|
```
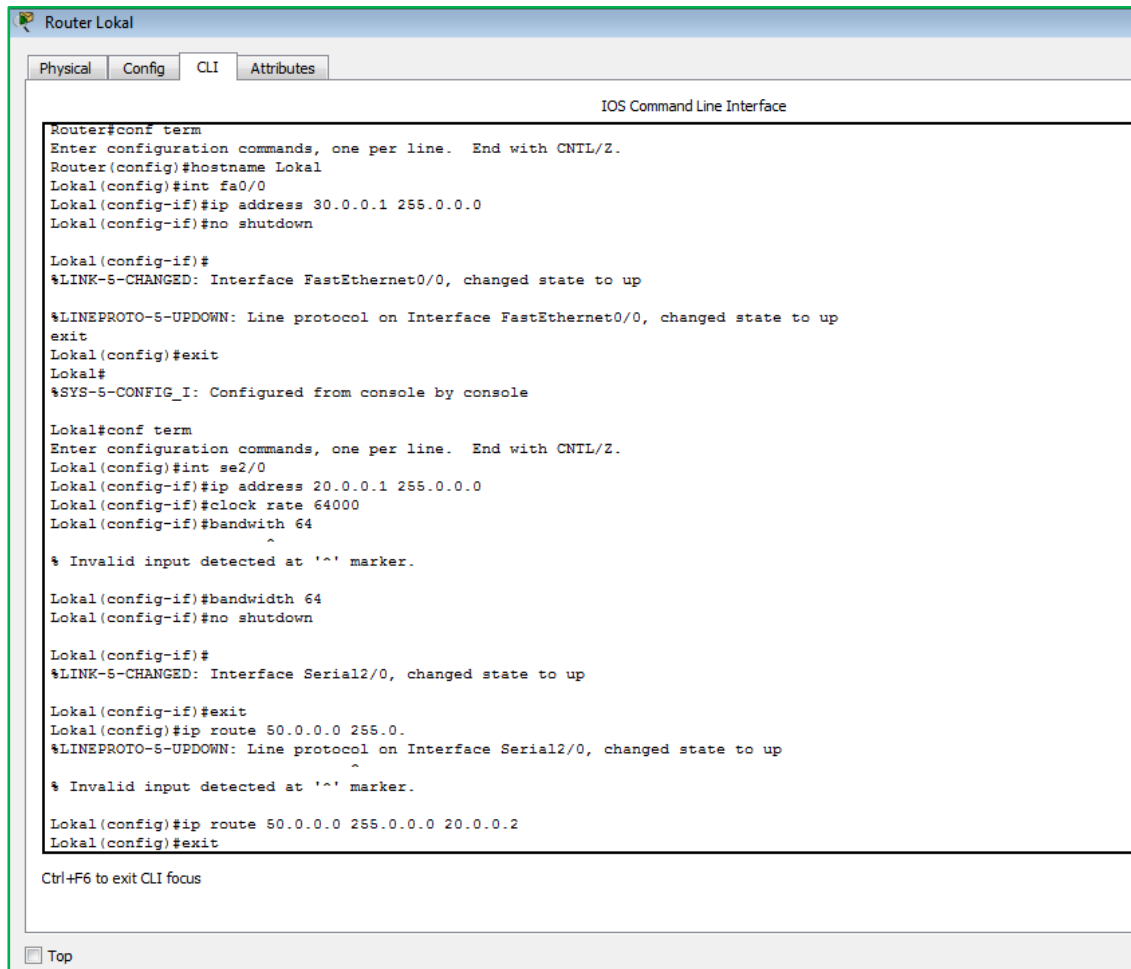
Ctrl+F6 to exit CLI focus

☐ Top

7. Konfigurasi Router  Lokal

```
Router Lokal

Physical   Config   CLI   Attributes

                              IOS Command Line Interface

Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Lokal
Lokal(config)#int fa0/0
Lokal(config-if)#ip address 30.0.0.1 255.0.0.0
Lokal(config-if)#no shutdown

Lokal(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
Lokal(config)#exit
Lokal#
%SYS-5-CONFIG_I: Configured from console by console

Lokal#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Lokal(config)#int se2/0
Lokal(config-if)#ip address 20.0.0.1 255.0.0.0
Lokal(config-if)#clock rate 64000
Lokal(config-if)#bandwith 64
                        ^
% Invalid input detected at '^' marker.

Lokal(config-if)#bandwidth 64
Lokal(config-if)#no shutdown

Lokal(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Lokal(config-if)#exit
Lokal(config)#ip route 50.0.0.0 255.0.
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
                        ^
% Invalid input detected at '^' marker.

Lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Lokal(config)#exit

Ctrl+F6 to exit CLI focus

[ ] Top
```
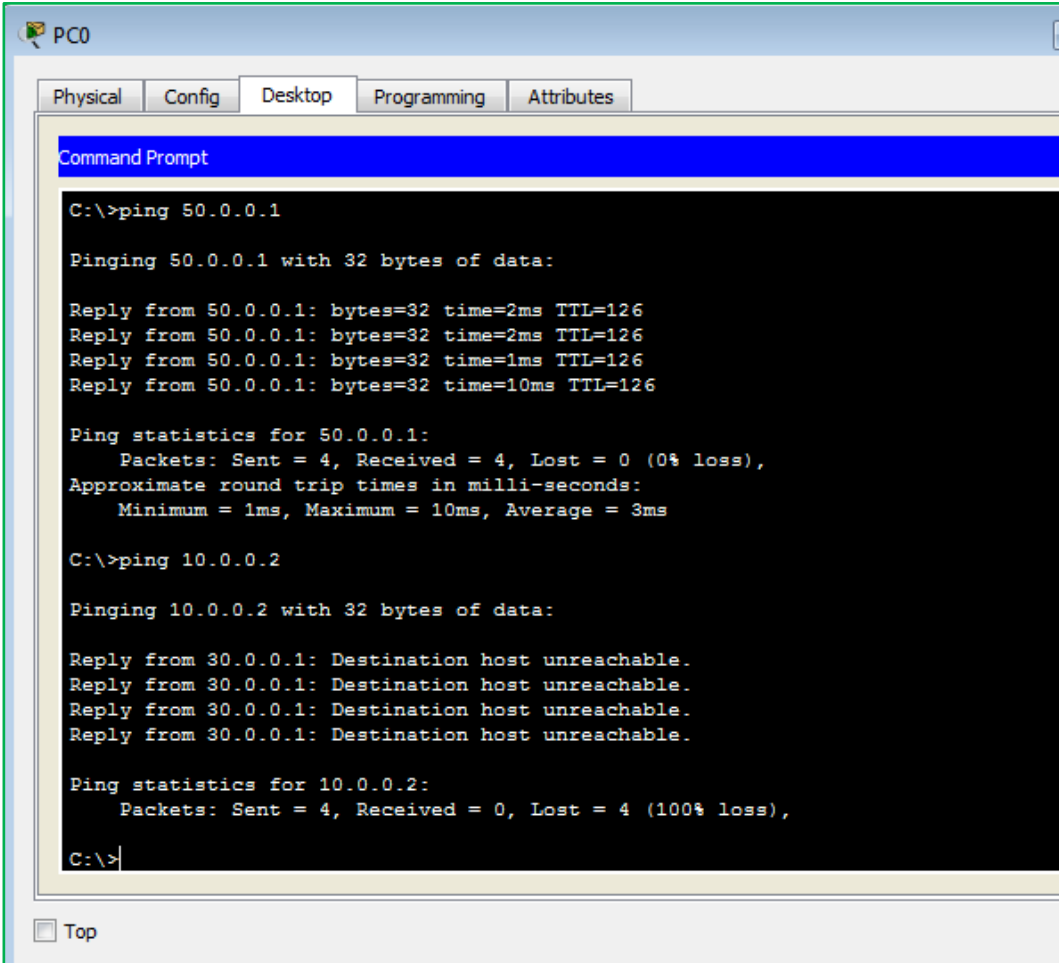
8. Uji Coba Koneksi dari PC-Lokal ke Web Server
   - Ping ke IP Private Server
   - Ping ke IP Publik Server

9. Kembangkan topologi dari langkah poin 1 menjadi topologi seperti gambar dibawah ini :

10. Beri IP PC 1

```
PC1

  Physical    Config    Desktop    Programming    Attributes

  Command Prompt

  C:\>ping 10.0.0.2

  Pinging 10.0.0.2 with 32 bytes of data:

  Reply from 30.0.0.1: Destination host unreachable.
  Reply from 30.0.0.1: Destination host unreachable.
  Reply from 30.0.0.1: Destination host unreachable.
  Reply from 30.0.0.1: Destination host unreachable.

  Ping statistics for 10.0.0.2:
      Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

  C:\>ping 50.0.0.1

  Pinging 50.0.0.1 with 32 bytes of data:

  Reply from 50.0.0.1: bytes=32 time=2ms TTL=126
  Reply from 50.0.0.1: bytes=32 time=18ms TTL=126
  Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
  Reply from 50.0.0.1: bytes=32 time=1ms TTL=126

  Ping statistics for 50.0.0.1:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = 1ms, Maximum = 18ms, Average = 5ms

  C:\>

  ☐ Top
```
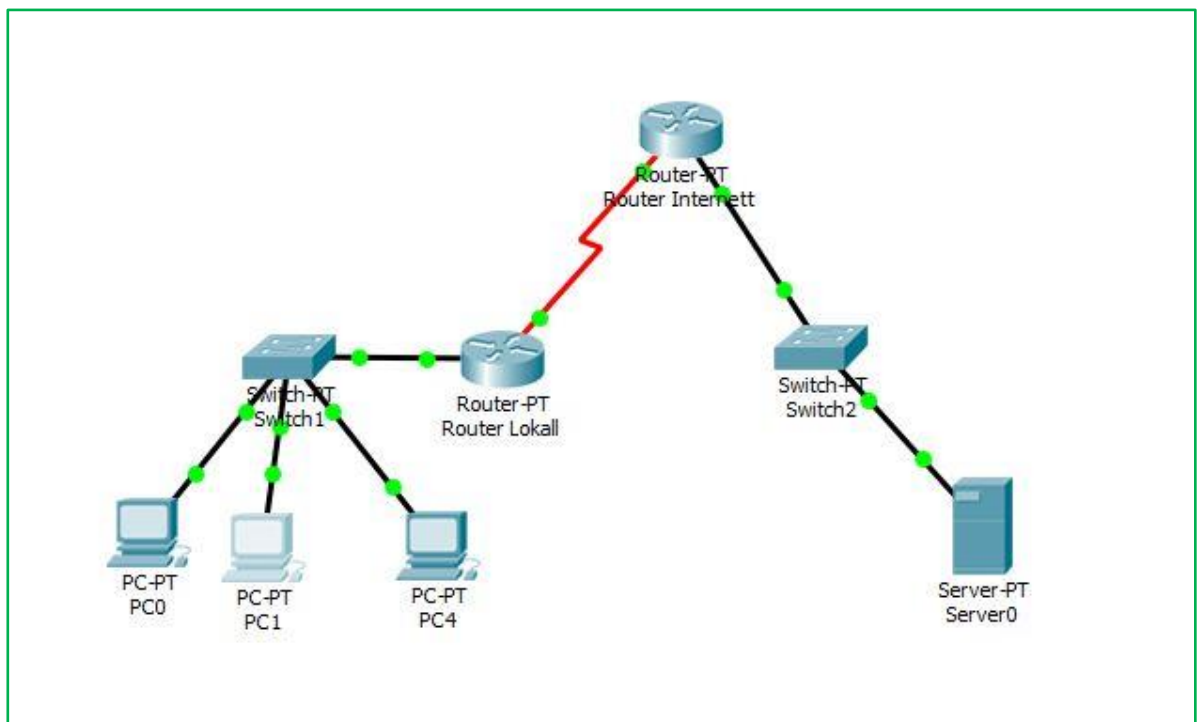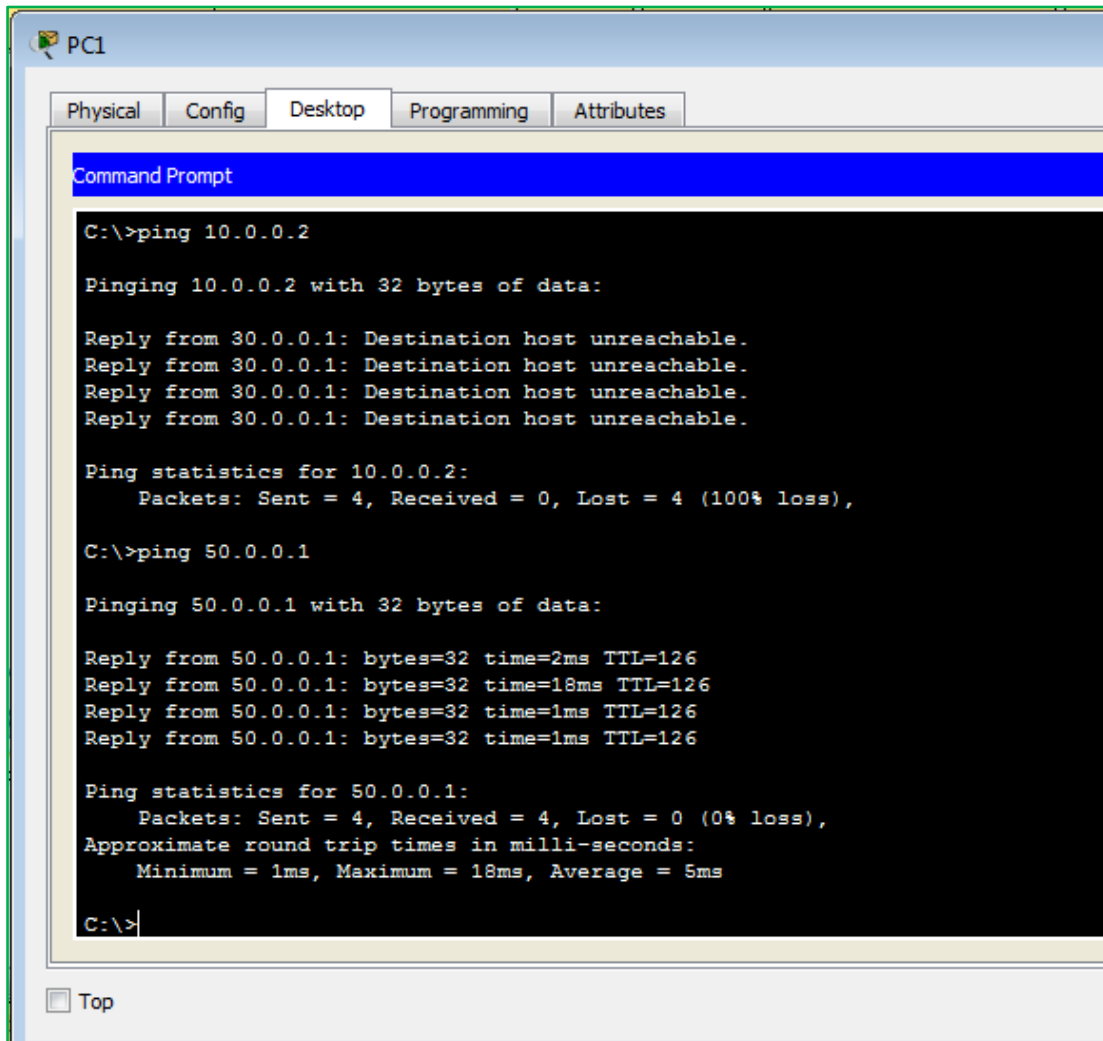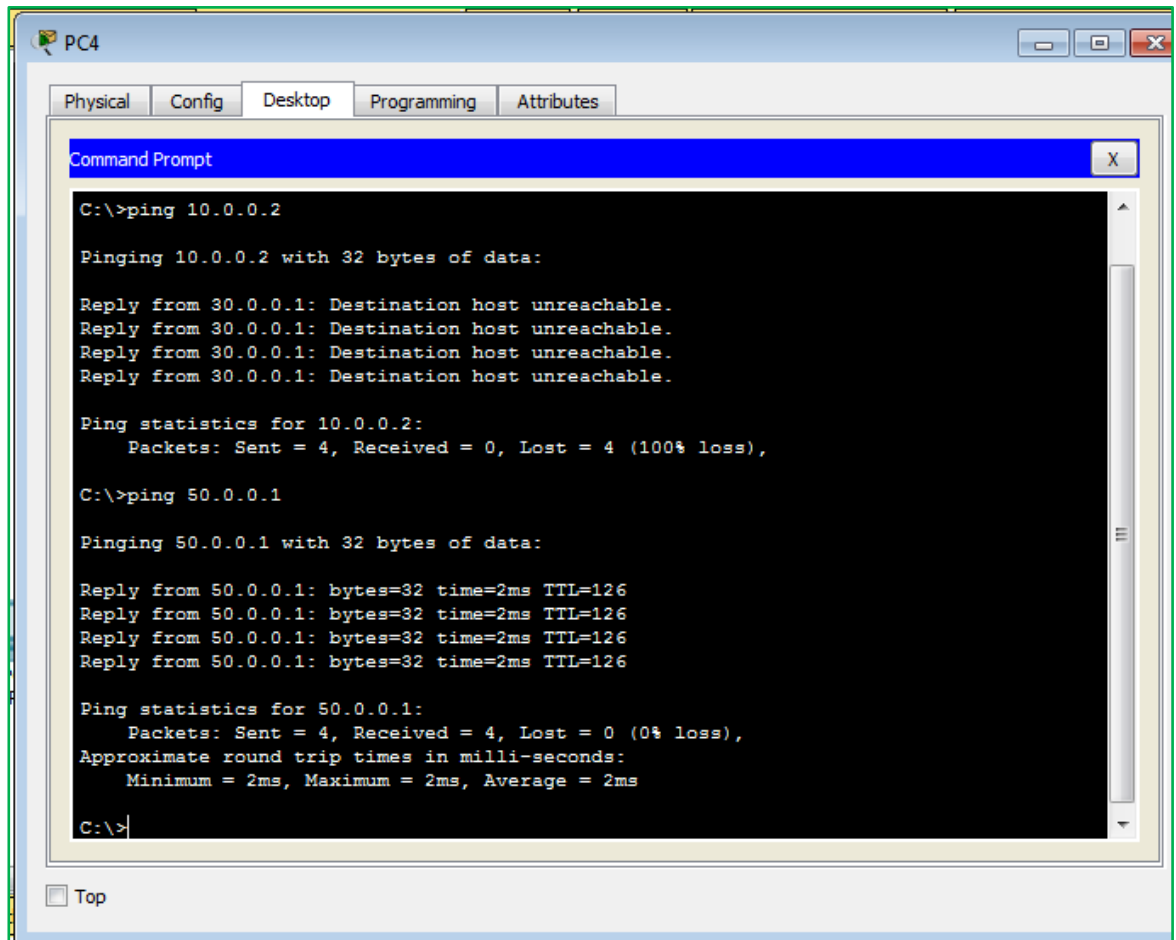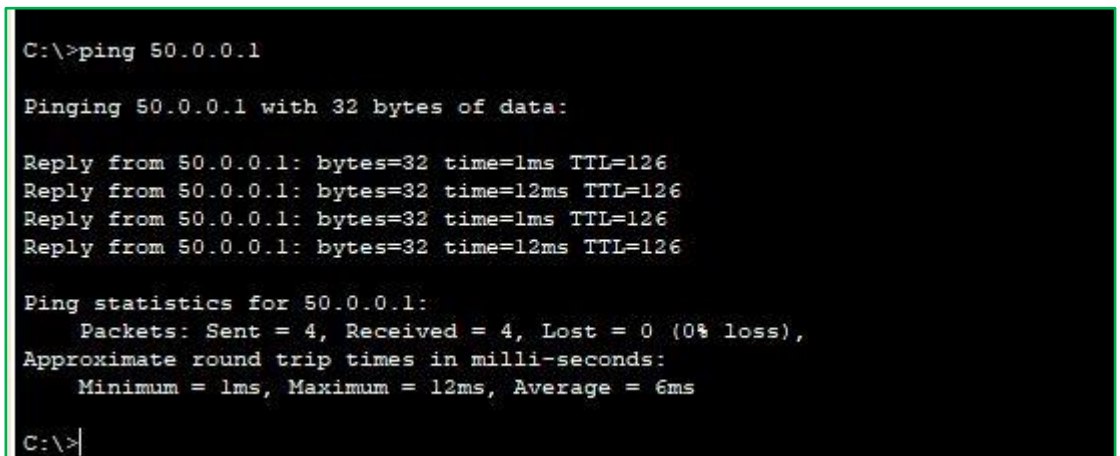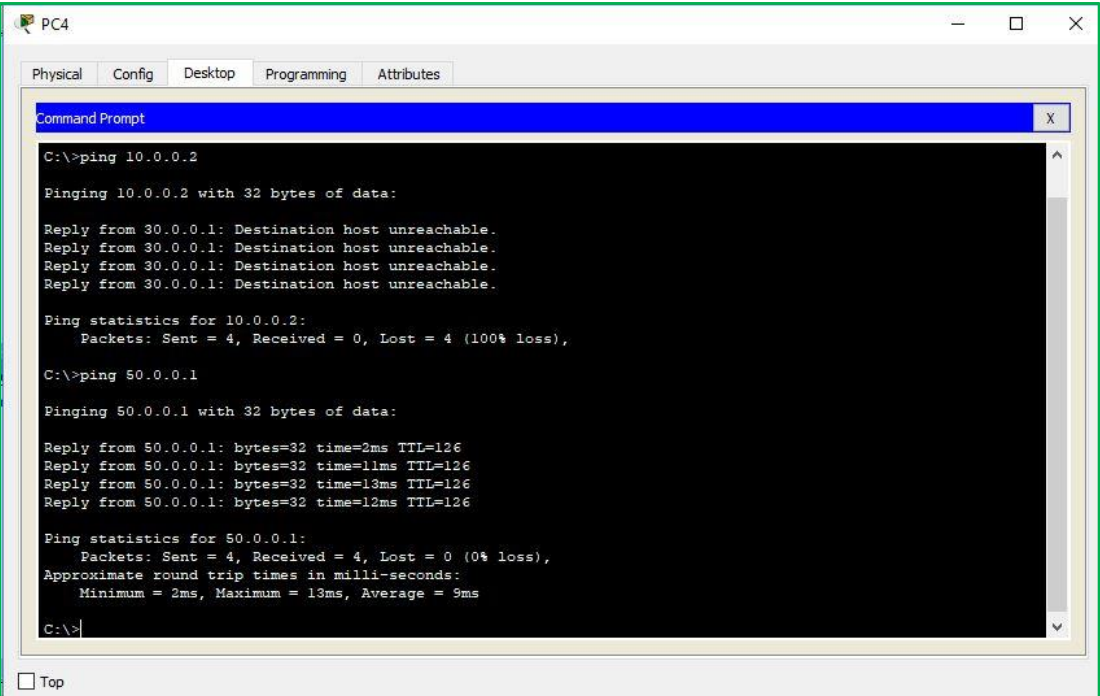
11. Beri IP PC4

12. Uji coba koneksi PC 1 dan PC 4 dengan Server melalui IP Publik
- PC 1 ke server



- PC 4 ke server

**Muhibah Fata Tika**
**L200170156**
**D**
**Jarkom**