NAMA : DEWI RAHMAWATI

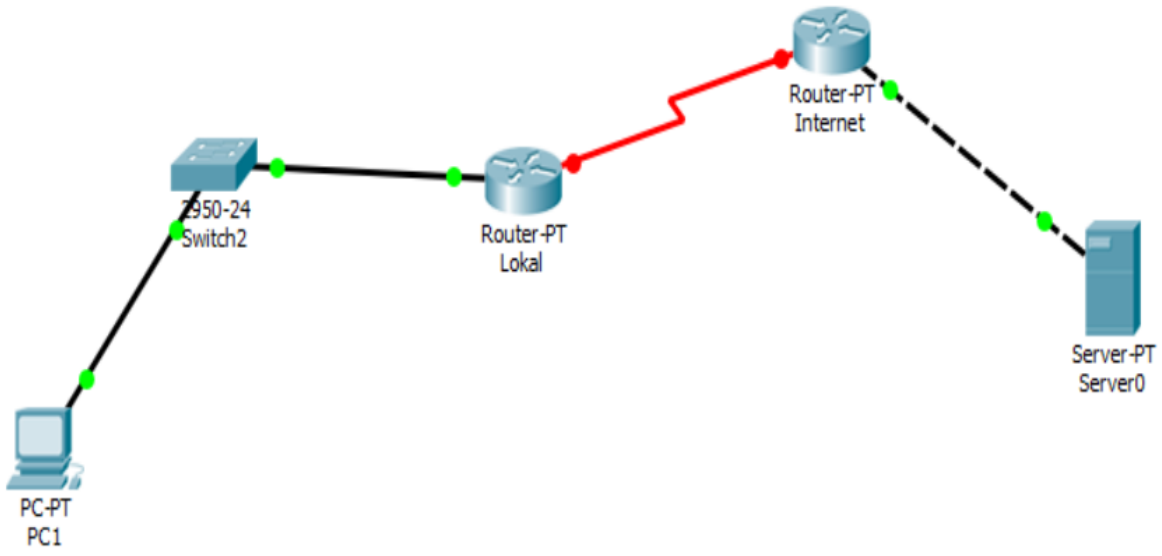
NIM : L200170188

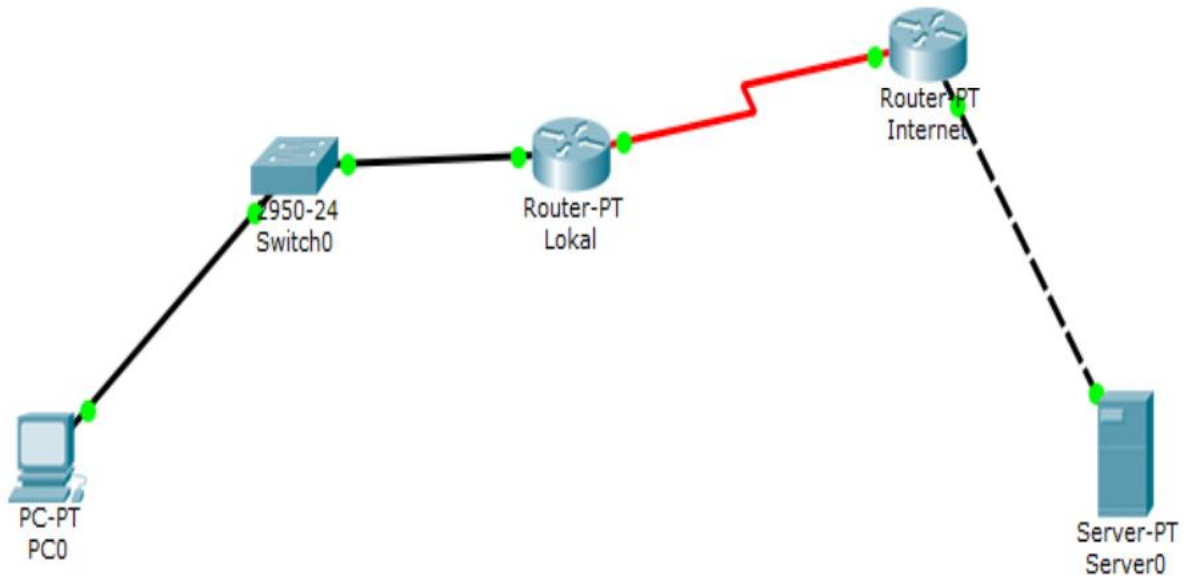
KELAS : D

TUGAS MODUL 9

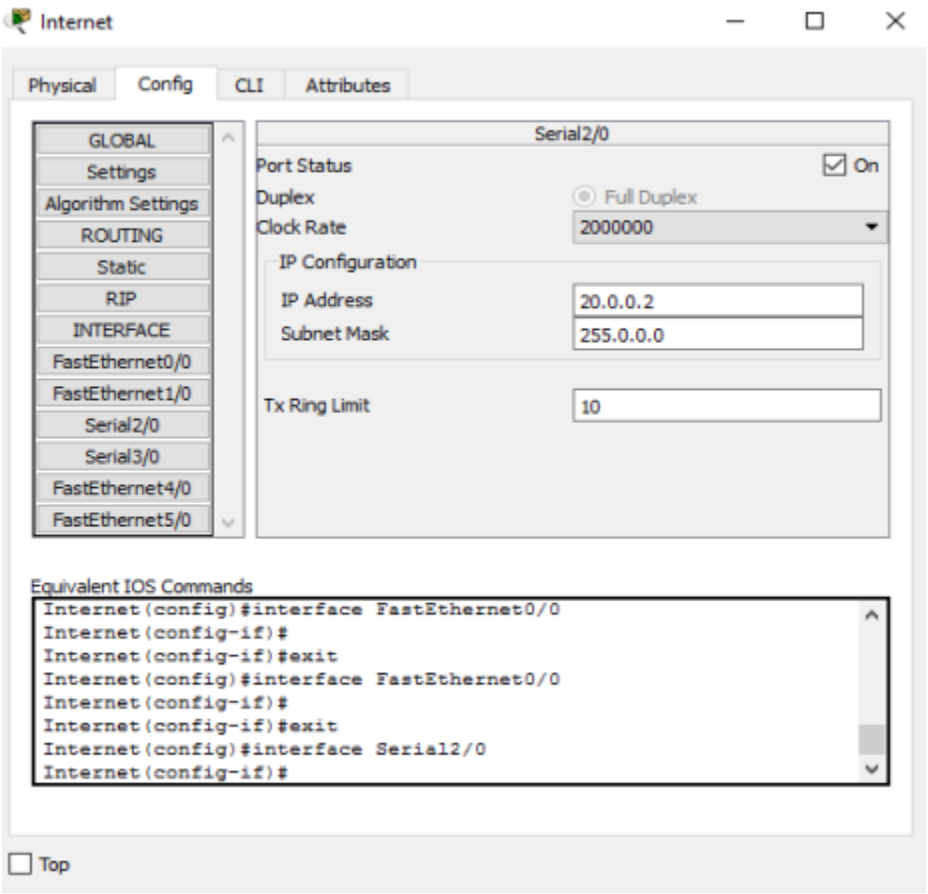
JARINGAN KOMPUTER

1. Tarik kesimpulan pada konfigurasi NAT tersebut, bandingkan dengan mekanisme routing statis tanpa menggunakan NAT.
   Jawab: Kesimpulannya adalah apabila melakukan konfigurasi routing statis lebih rumit dan panjang jika dibandingkan dengan menggunakan mekanisme NAT.
2. Catat langkah praktikum 1-7
   Jawab : Langkah – langkah

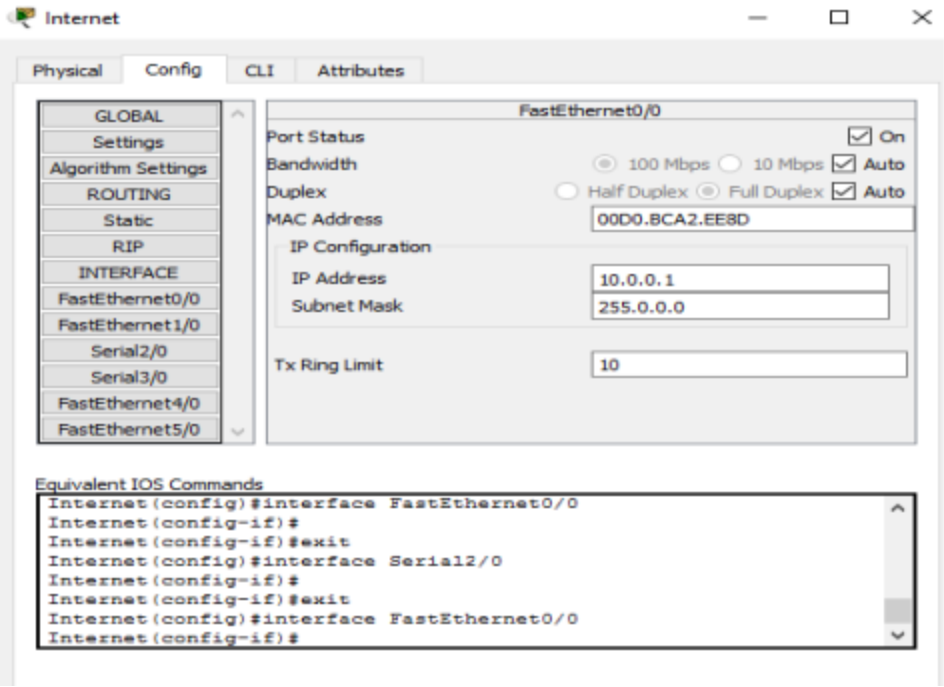




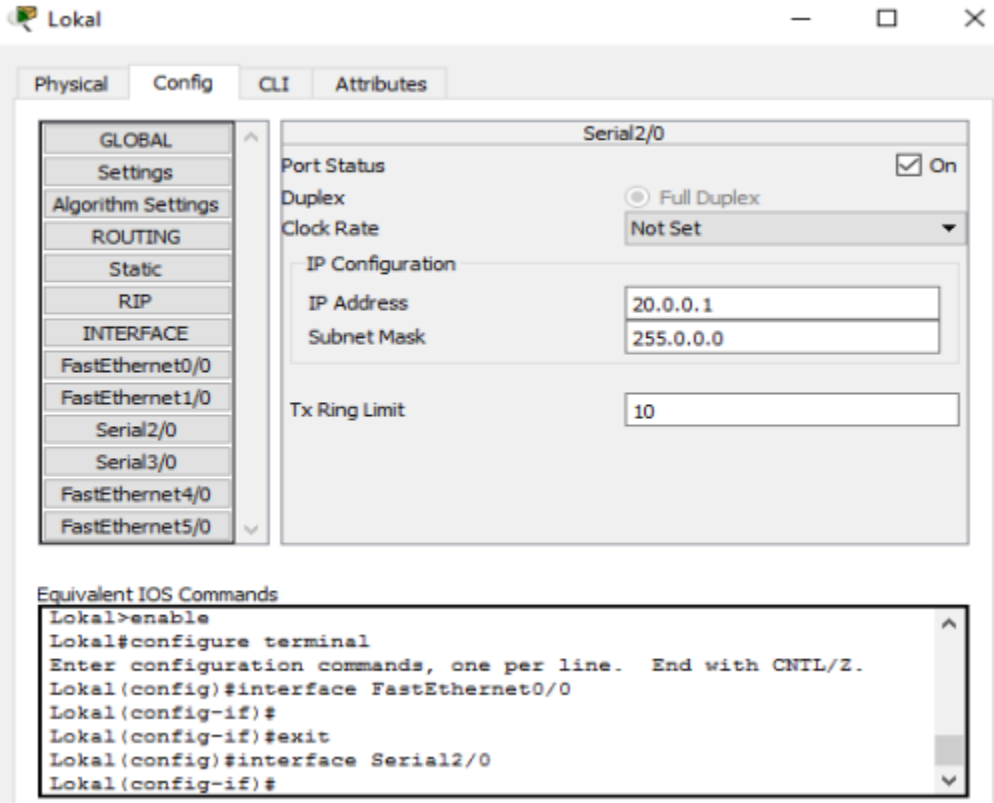
1. Memberi alamat IP Address pada Serial 2/0 pada Router Internet.



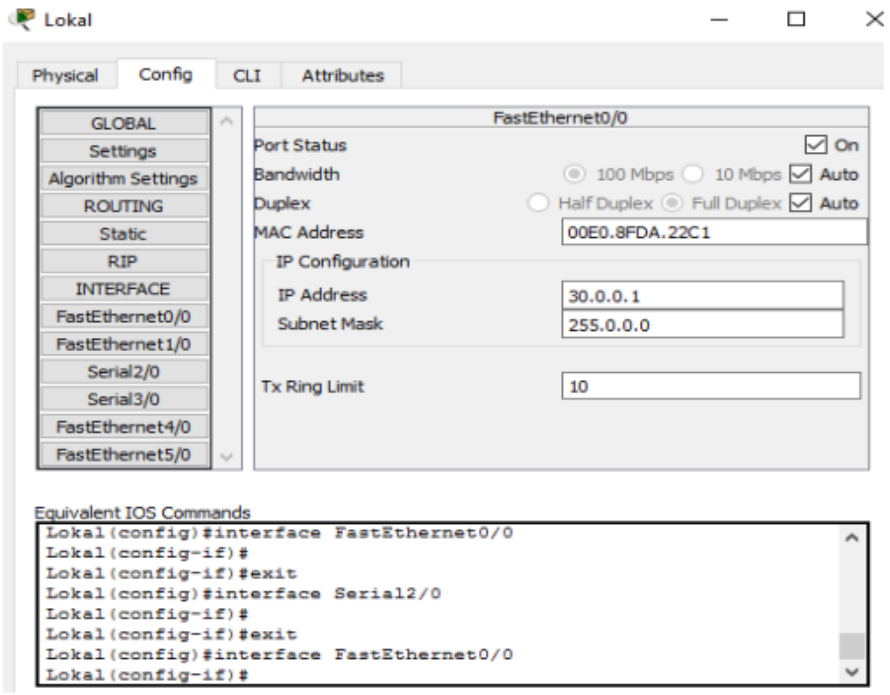
2. Memberi alamat IP Address pada FastEthernet 0/0 pada Router Internet.



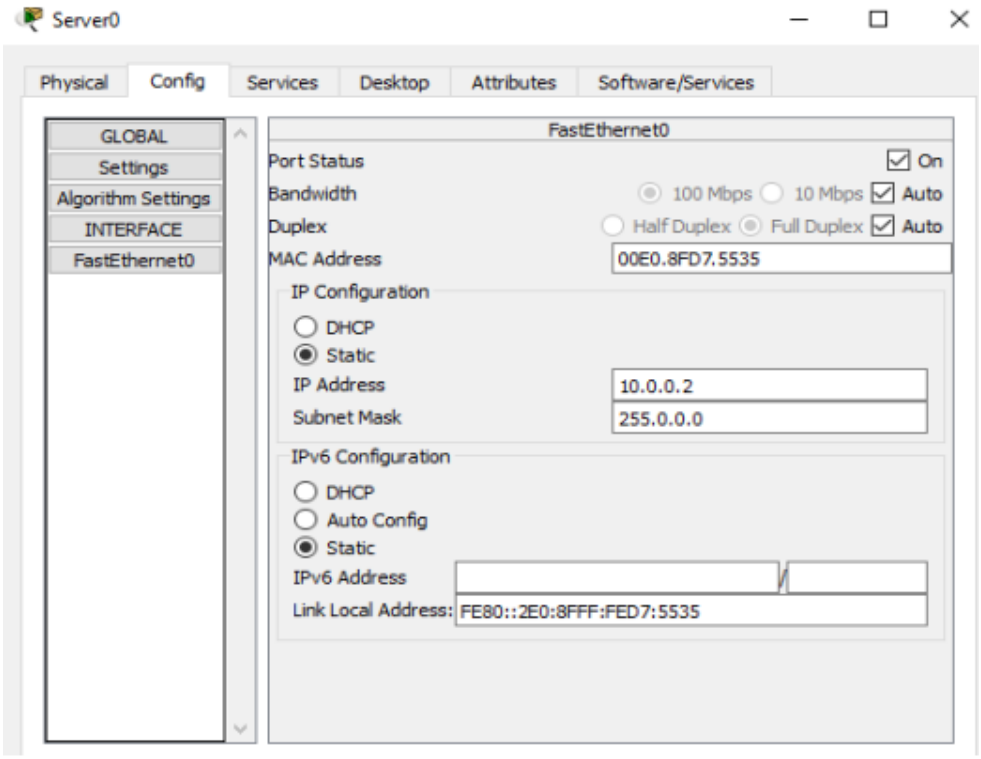
3. Memberi alamat IP Address pada Serial 2/0 pada Router Lokal.



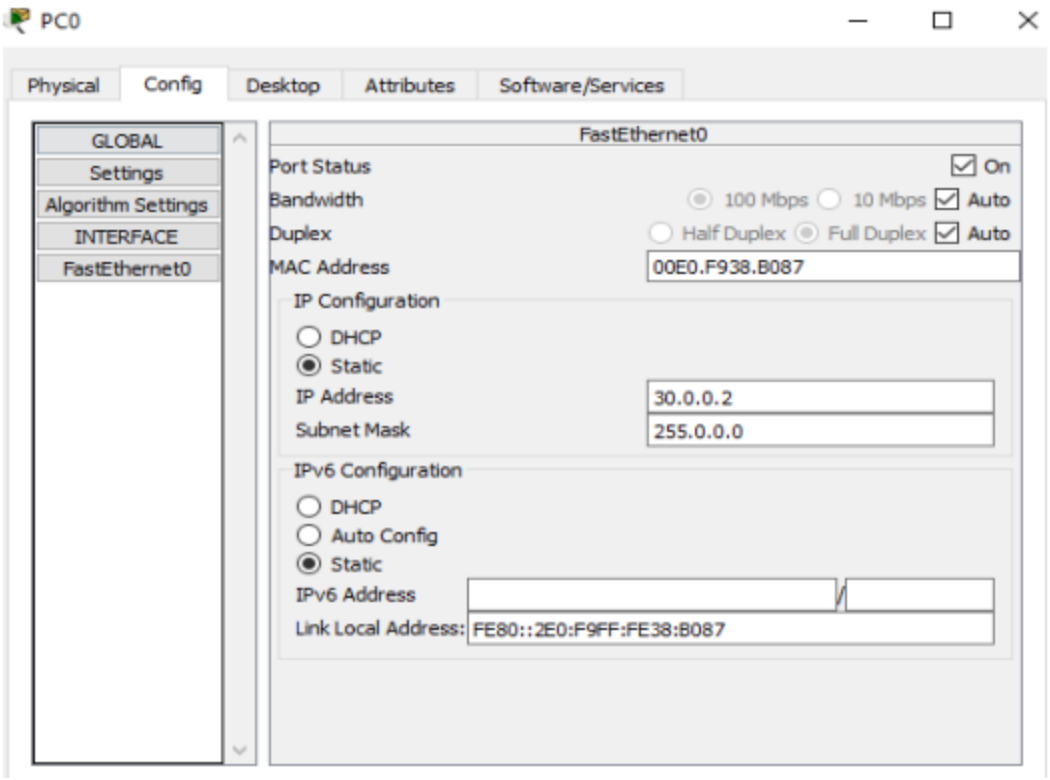
4. Memberi alamat IP Address pada FastEthernet 0/0 pada Router Internet



5. Memberi alamat IP Address pada FastEthernet 0/0 pada Web Server



6. Memberi alamat IP Address pada FastEthernet 0/0 pada PC0.



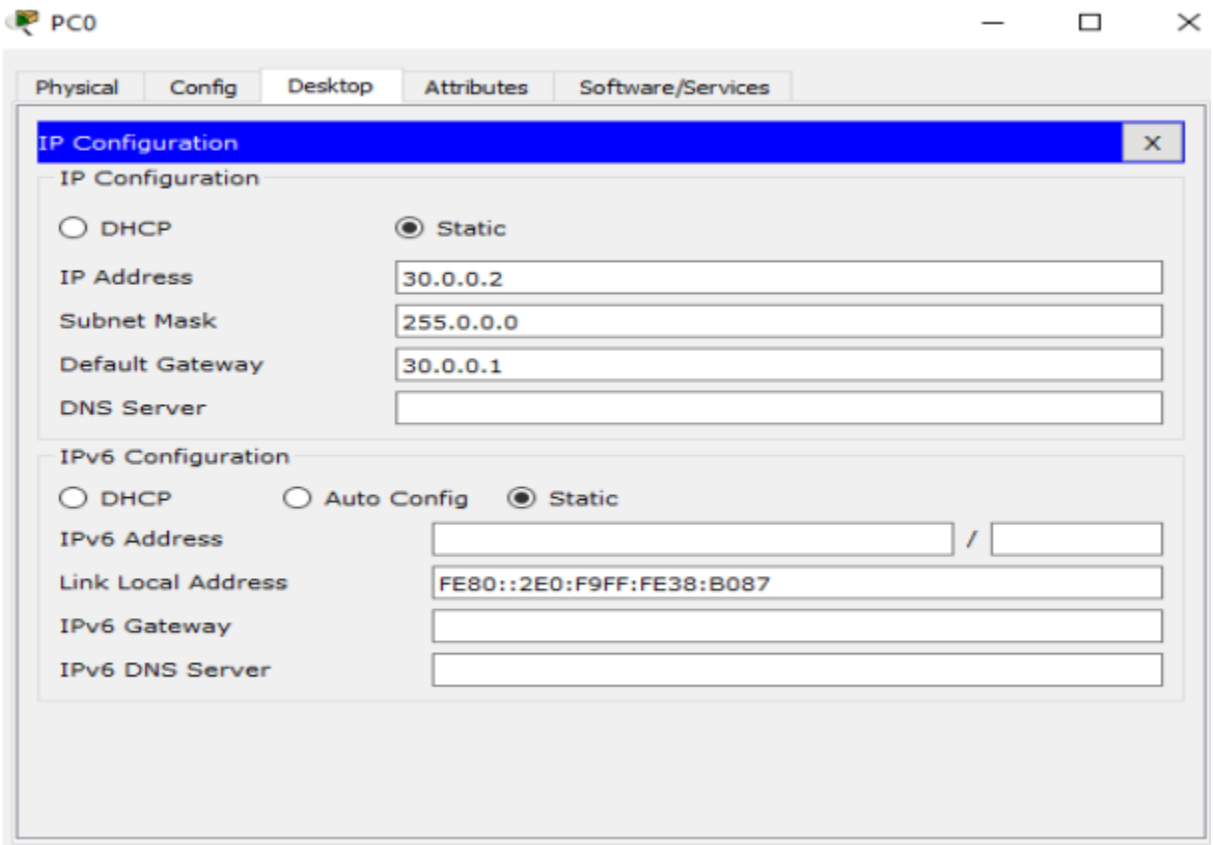
7. Melakukan konfigurasi pada Router Internet.

```
Router>en
Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Internet
Internet(config)#int fa 0/0
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 se 2/0
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)#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 fa 0/0
Internet(config-if)#ip nat inside
Internet(config-if)#exit
```

8. Melakukan konfigurasi pada Router Lokal.

```
Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Lokal
Lokal(config)#int fa 0/0
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

Lokal(config-if)#exit
Lokal(config)#int se 2/0
Lokal(config-if)#ip address 20.0.0.1 255.0.0.0
Lokal(config-if)#clock rate 64000
Lokal(config-if)#bandwidth 64
Lokal(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Lokal(config-if)#exit
Lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Lokal(config)#exit
```

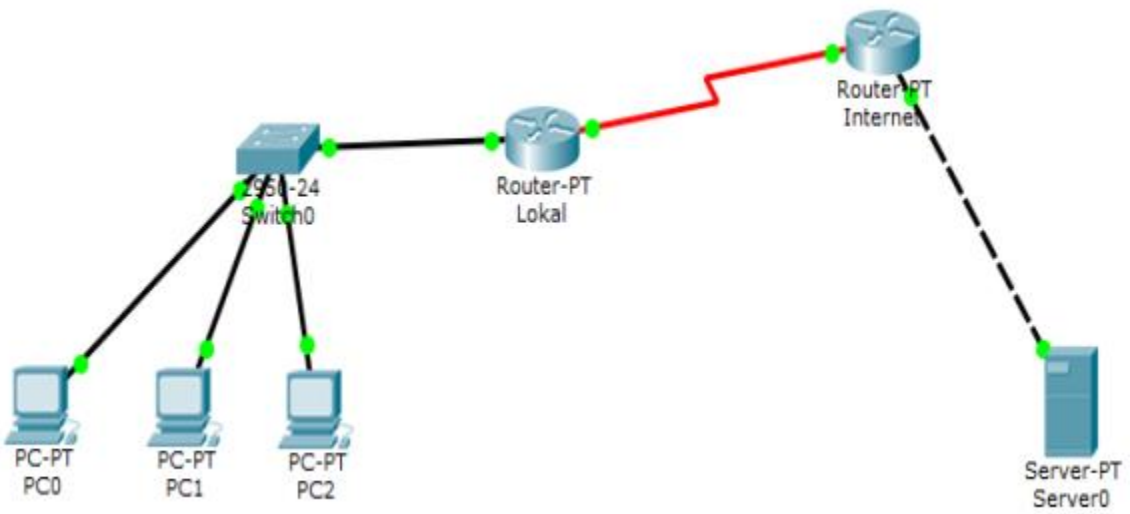
9. Melakukan konfigurasi pada PC0.



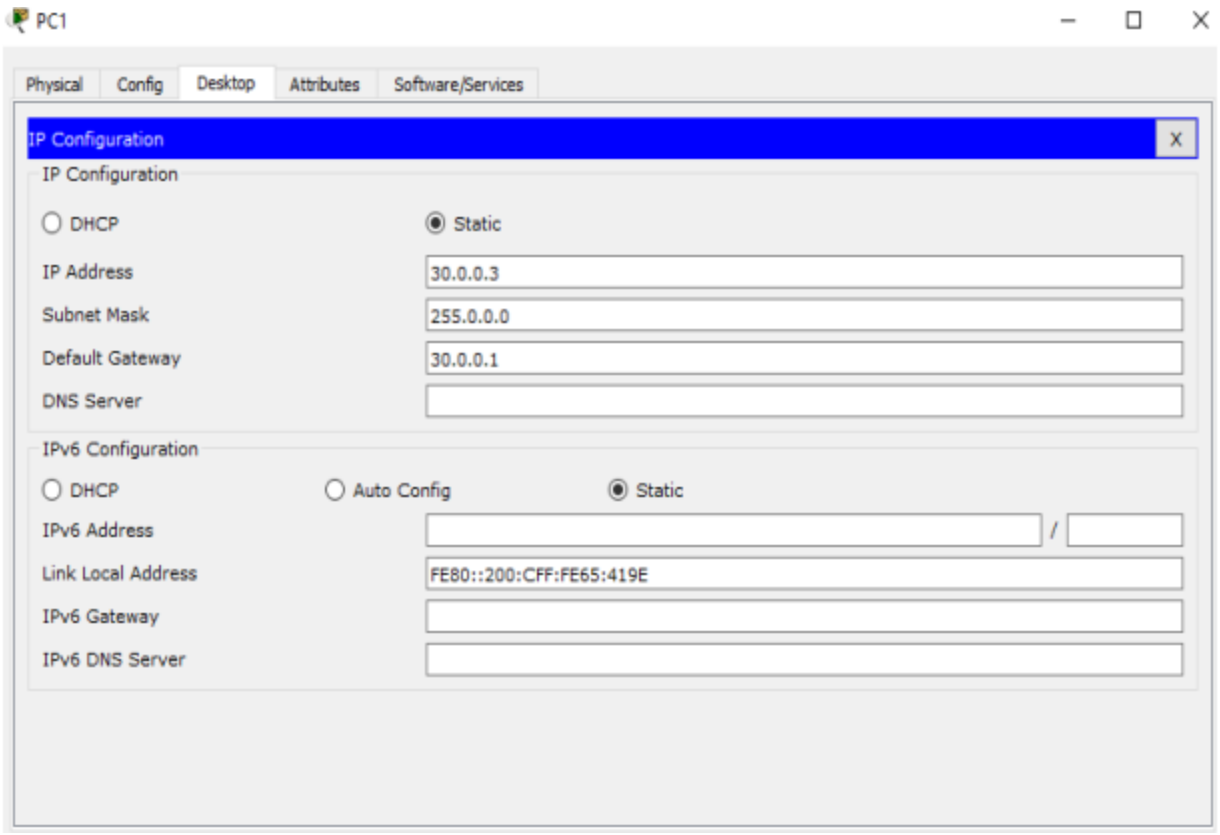
10. Melakukan ping dari PC0

```
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=11ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=11ms 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 = 11ms, Average = 6ms
```

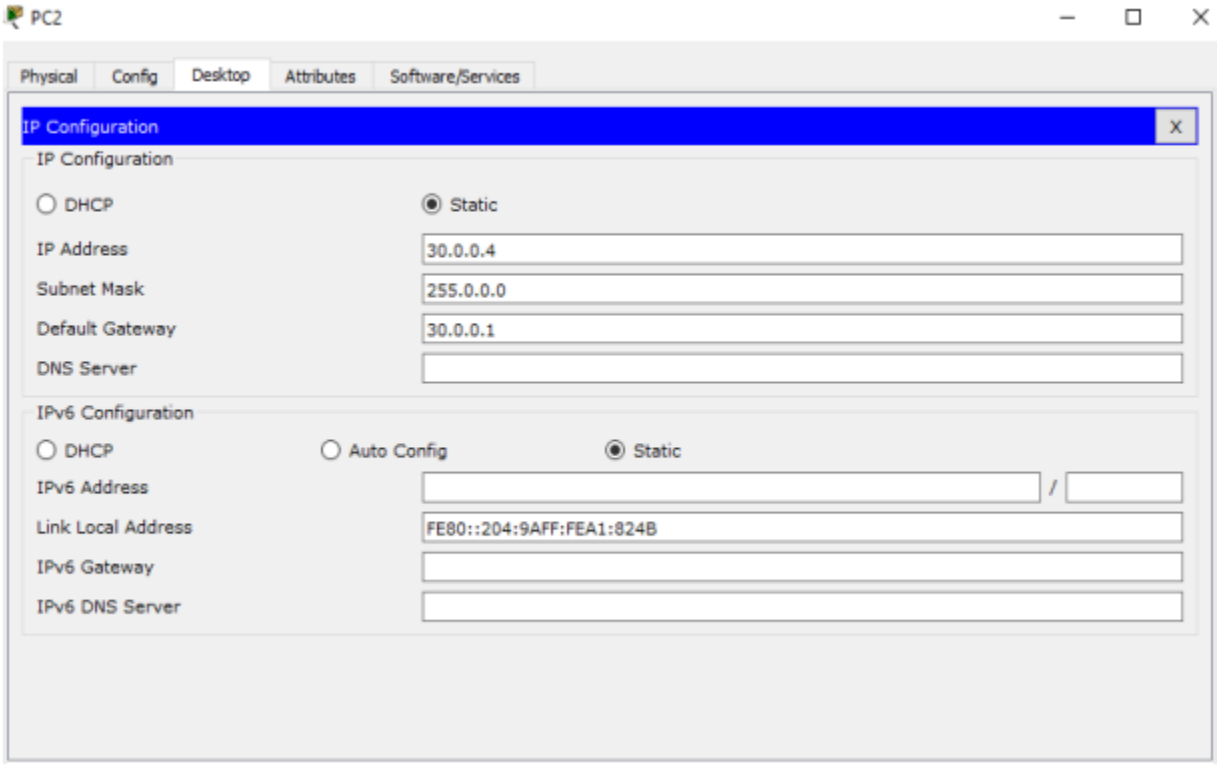
11. Mengembangkan topologi dari langkah 1 menjadi seperti dibawah ini :



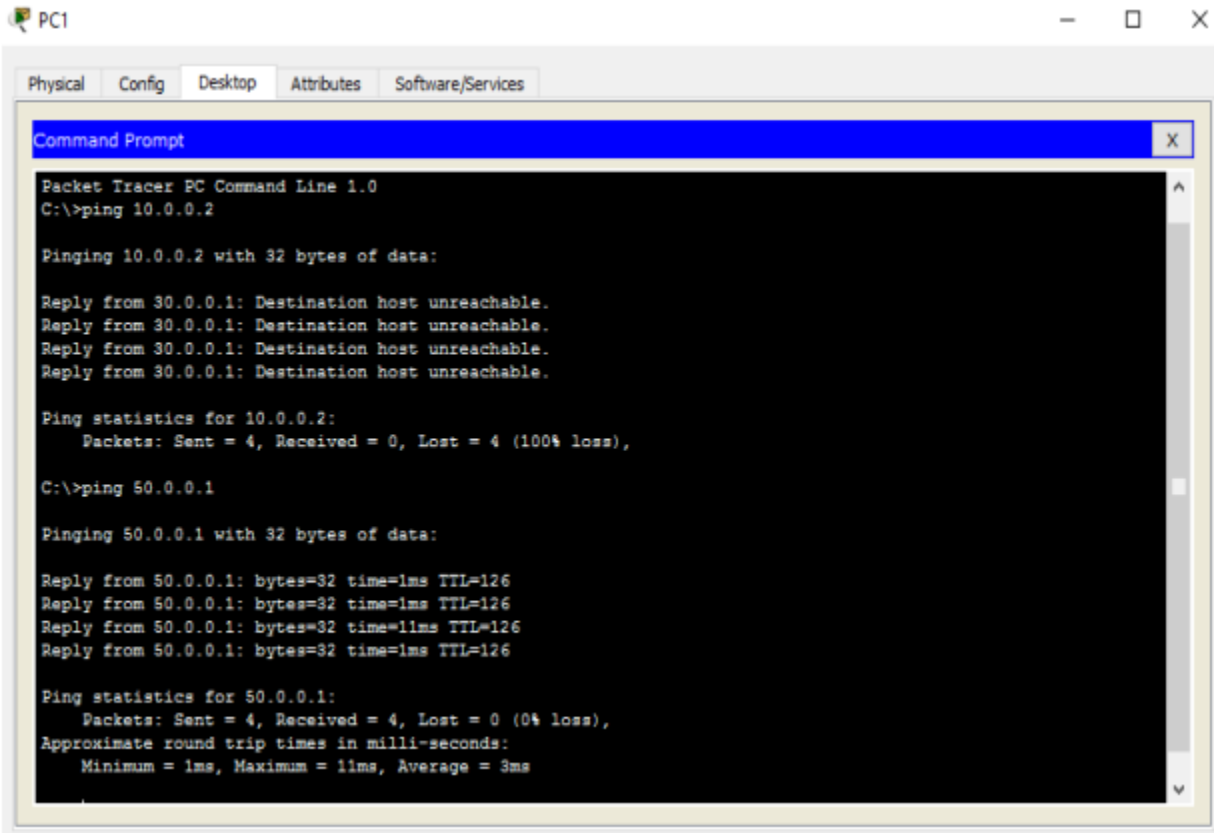
12. Melakukan konfigurasi pada
    a. PC1.


PC1
Physical
Config
Desktop
Attributes
Software/Services
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
30.0.0.3
Subnet Mask
255.0.0.0
Default Gateway
30.0.0.1
DNS Server
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
/
Link Local Address
FE80::200:CFF:FE65:419E
IPv6 Gateway
IPv6 DNS Server

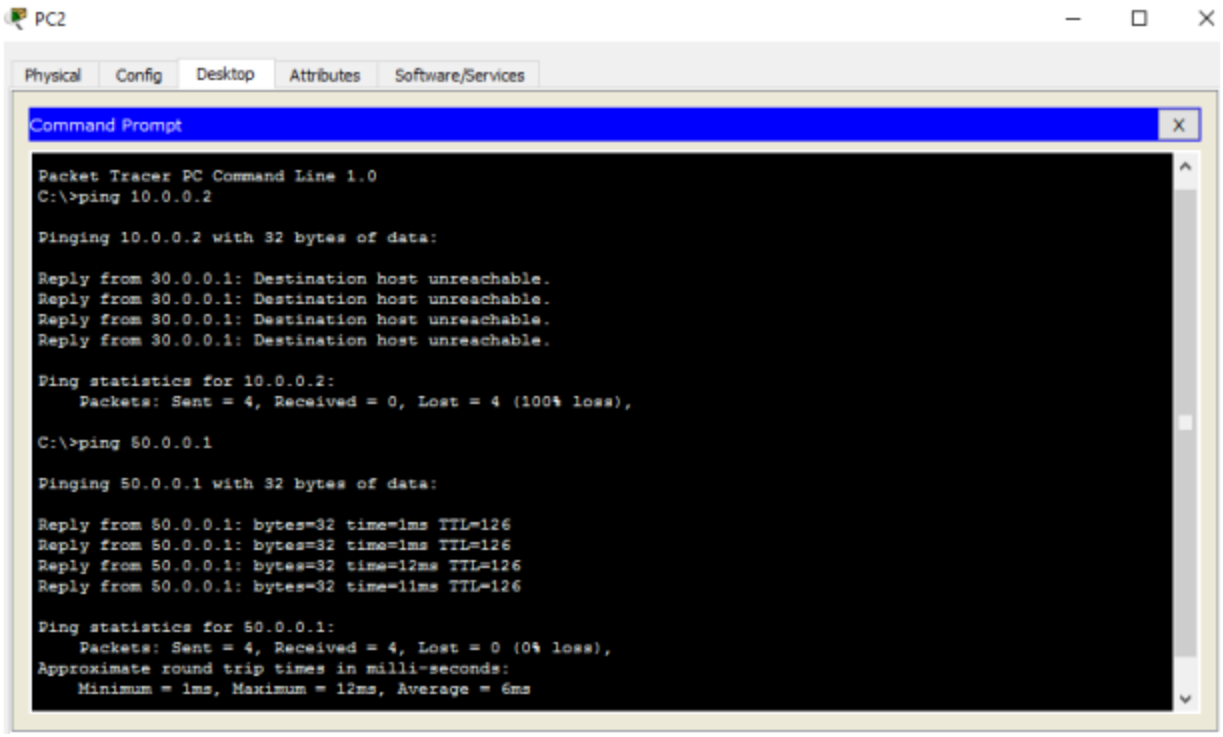
b. PC 2


PC2
Physical
Config
Desktop
Attributes
Software/Services
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
30.0.0.4
Subnet Mask
255.0.0.0
Default Gateway
30.0.0.1
DNS Server
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
/
Link Local Address
FE80::204:9AFF:FEA1:824B
IPv6 Gateway
IPv6 DNS Server

13. Melakukan ping pada
    a. PC 1



    b. PC 2


PC2
Physical
Config
Desktop
Attributes
Software/Services
Command Prompt
X
Packet Tracer PC Command Line 1.0
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=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=12ms TTL=126
Reply from 50.0.0.1: bytes=32 time=11ms 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 = 12ms, Average = 6ms