

NAMA : WINDI SAPUTRI

KELAS : C

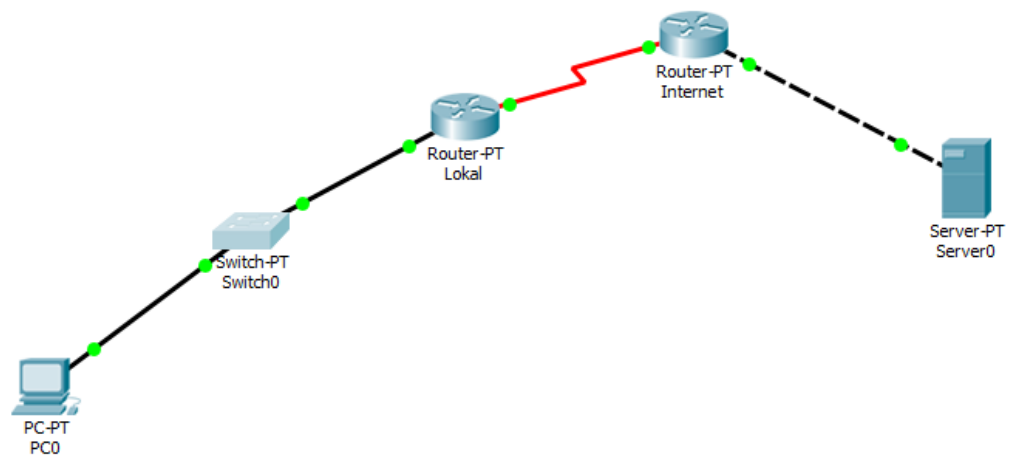
NIM : L200170115

MODUL 9

1. KESIMPULAN

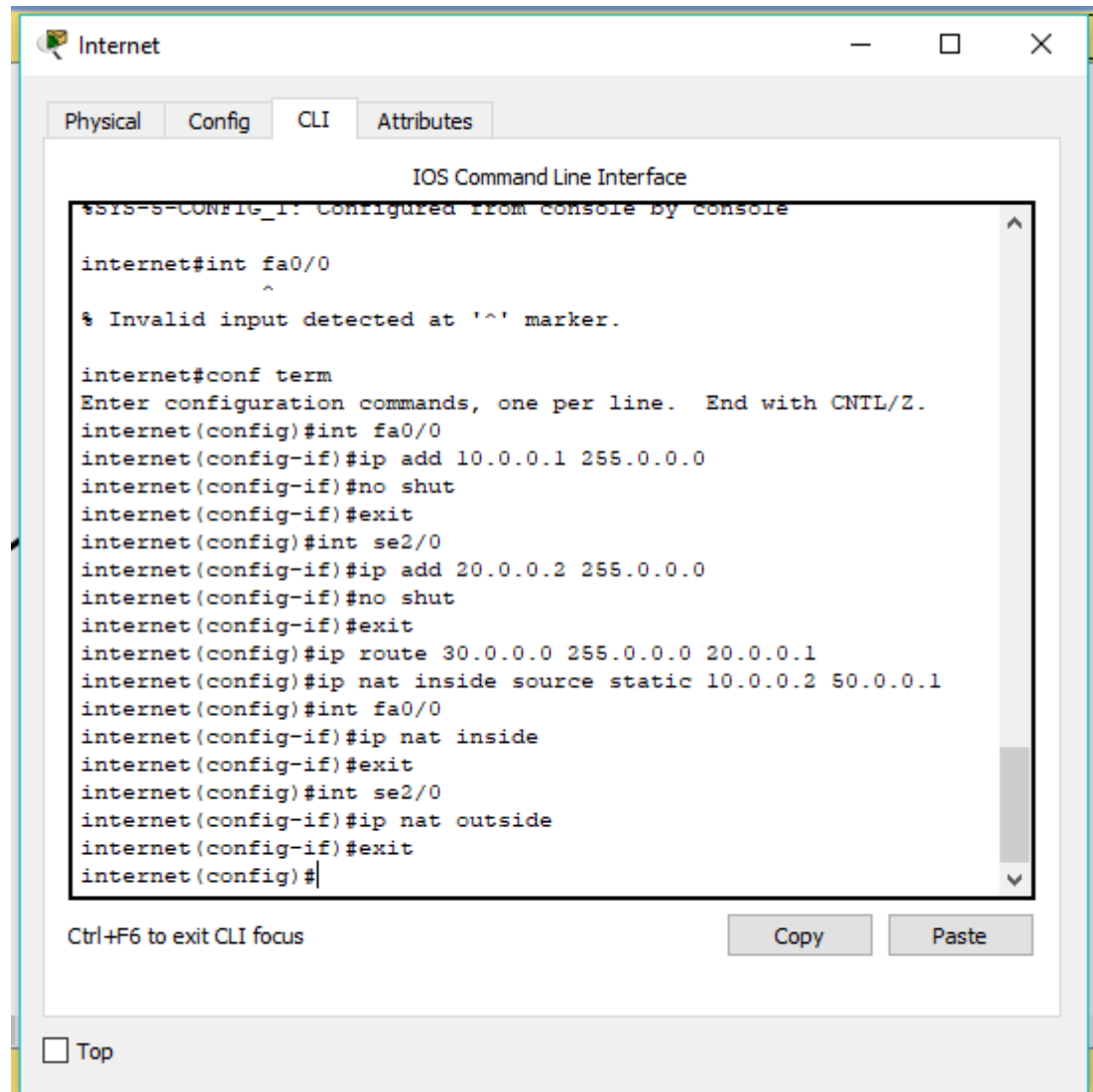
jika melakukan konfigurasi routing statis lebih rumit dan panjang jika dibandingkan dengan menggunakan mekanisme NAT.

2. DESAIN JARINGAN

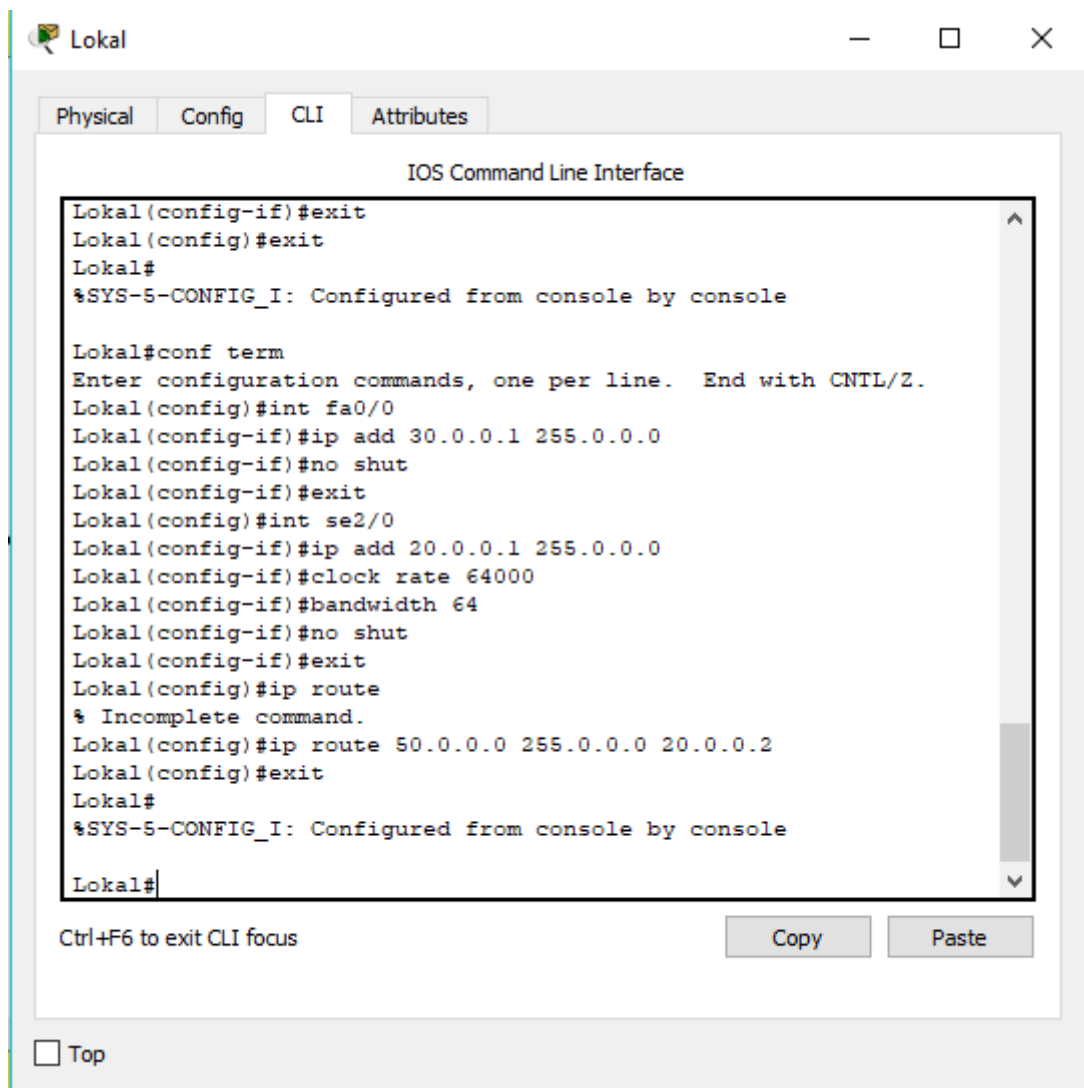


3. KONFIGURASI ROUTER

INTERNET



LOKAL



4. KONFIGURASI SERVER

The screenshot shows the configuration window for a server named 'Server0'. The 'Config' tab is selected, and the 'FastEthernet0' interface is chosen from the left-hand menu. The interface settings are as follows:

- Port Status:** ☒ On
- Bandwidth:** ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex:** ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address:** 0001.C743.B98D
- IP Configuration:**
 - ☐ DHCP
 - ☒ Static
 - IP Address:** 10.0.0.2
 - Subnet Mask:** 255.0.0.0
- IPv6 Configuration:**
 - ☐ DHCP
 - ☐ Auto Config
 - ☒ Static
 - IPv6 Address:** [Empty field]
 - Link Local Address:** FE80::201:C7FF:FE43:B98D

At the bottom left of the window, there is a checkbox labeled 'Top' which is currently unchecked.

5. KONFIGURASI PC

PC0

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 30.0.0.2

Subnet Mask 255.0.0.0

Default Gateway 30.0.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

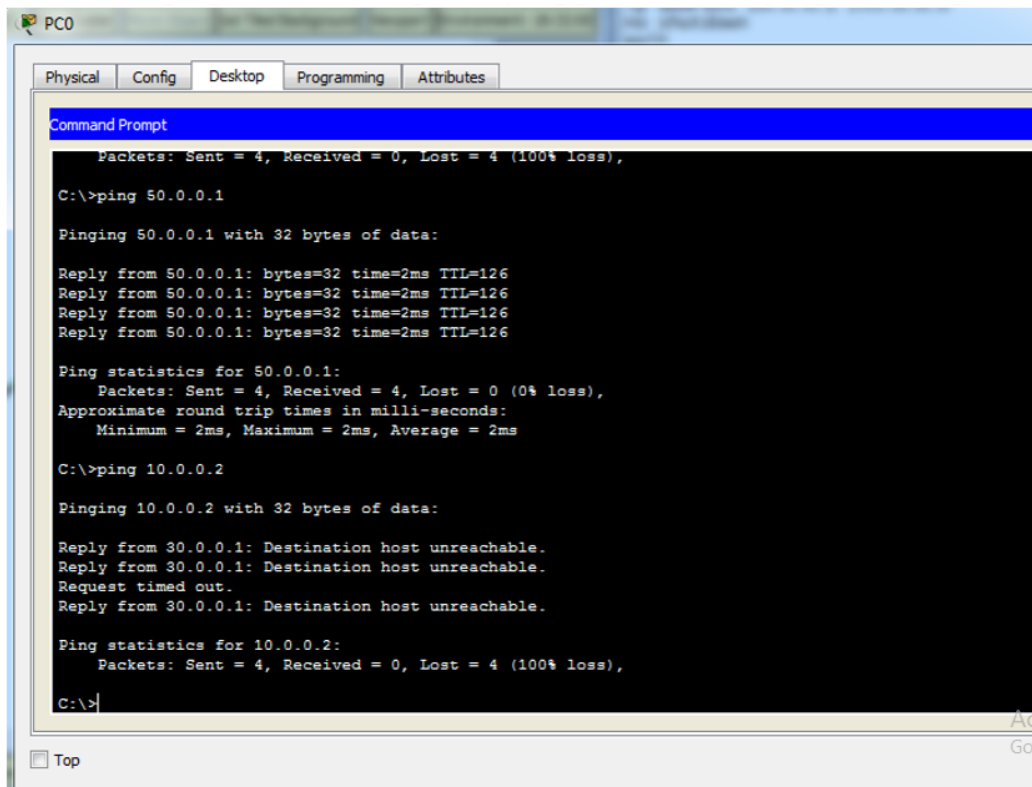
Link Local Address FE80::203:E4FF:FED8:C06A

IPv6 Gateway

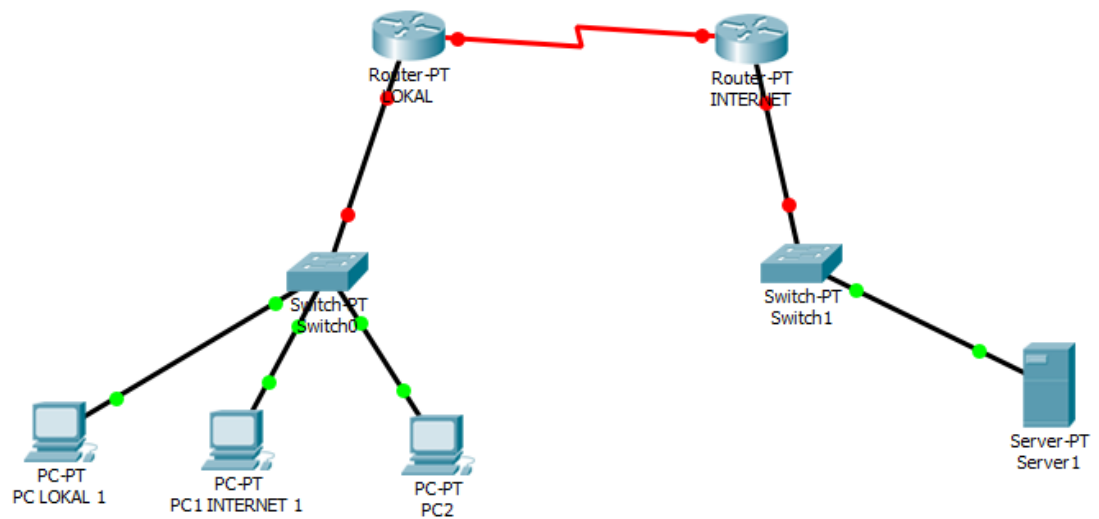
IPv6 DNS Server

☐ Top

6. MELAKUKAN PING KE SERVER DENGAN IP YANG PUBLIC DAN IP YANG BELUM DIPUBLIC



7. KEMBANGKAN TOPOLOGI ROUTER



LAKUKAN KONFIGURASI PC

PC LOKAL 1

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 30.0.0.3

Subnet Mask: 255.0.0.0

Default Gateway: 30.0.0.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::20C:85FF:FE8C:7345

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

PC1 INTERNET 1

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 30.0.0.4

Subnet Mask 255.0.0.0

Default Gateway 30.0.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::201:C9FF:FE52:B04A

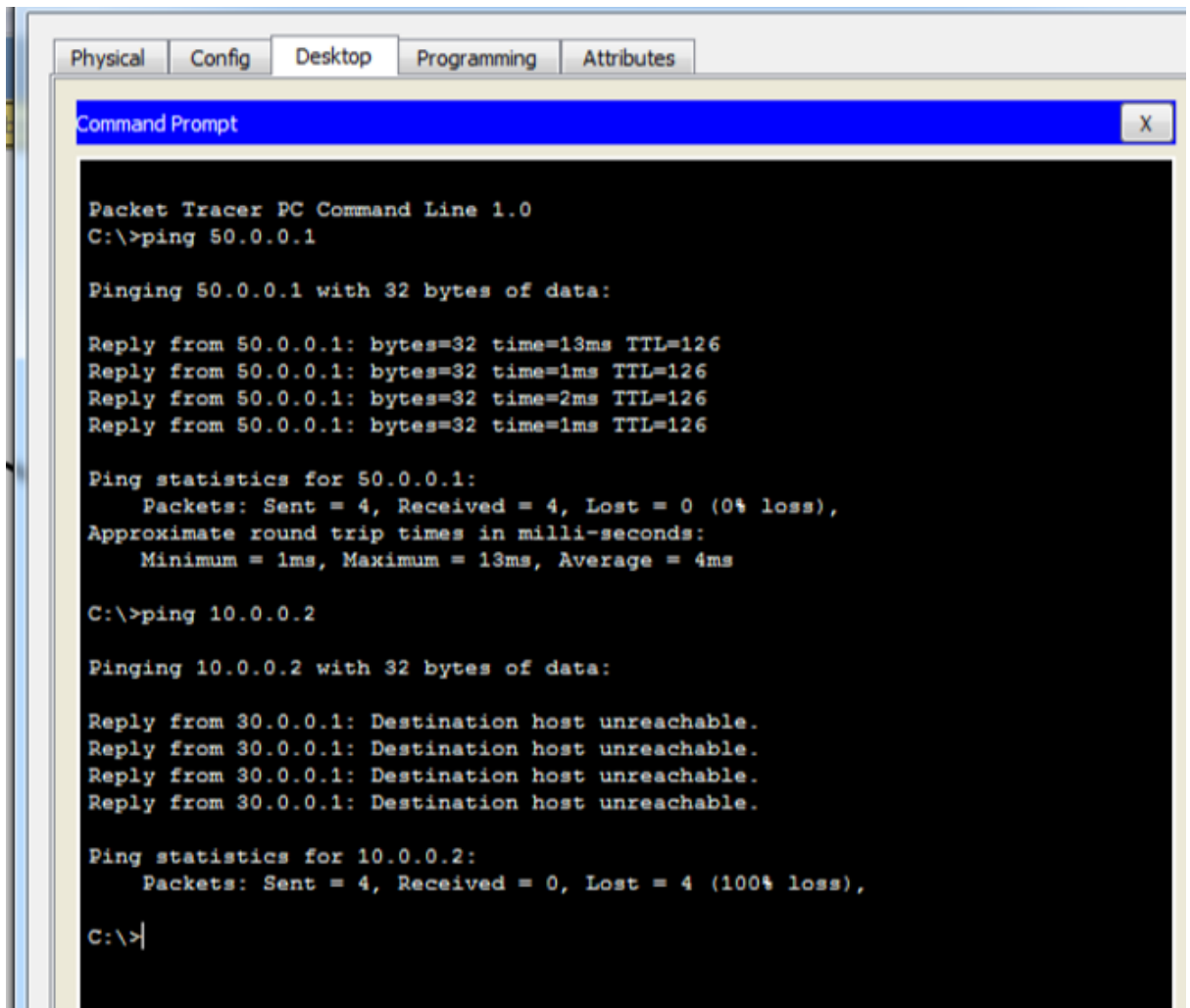
IPv6 Gateway

IPv6 DNS Server

☐ Top

NB : UNTUK PERROUTINGAN ROUTER TETAP SAMA DAN MENAMBAH PC DENGAN IP YANG MASIH DALAM SARU JARINGAN

LAKUKAN PING



The screenshot shows a Packet Tracer PC Command Line window with tabs for Physical, Config, Desktop, Programming, and Attributes. The Command Prompt window displays the following text:

```
Packet Tracer PC Command Line 1.0
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=13ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=2ms 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 = 13ms, Average = 4ms

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:\>|
```

TUGAS :

NAT berfungsi untuk menghubungkan lebih dari satu computer pada jaringan local ke jaringan internet dengan menggunakan satu alamat IP public.

Perbandingan :

Penggunaan mekanisme routing static yang menggunakan NAT adalah akan lebih digunakan sebagai jembatan antara jaringan local dengan jaringan global.

Sedangkan mekanisme tetap menggunakan NAT akan lebih cocok sebagai dinding atau pembatas untuk mengelompokkan kumpulan jaringan dan membuat akses khusus pada jaringan tertentu