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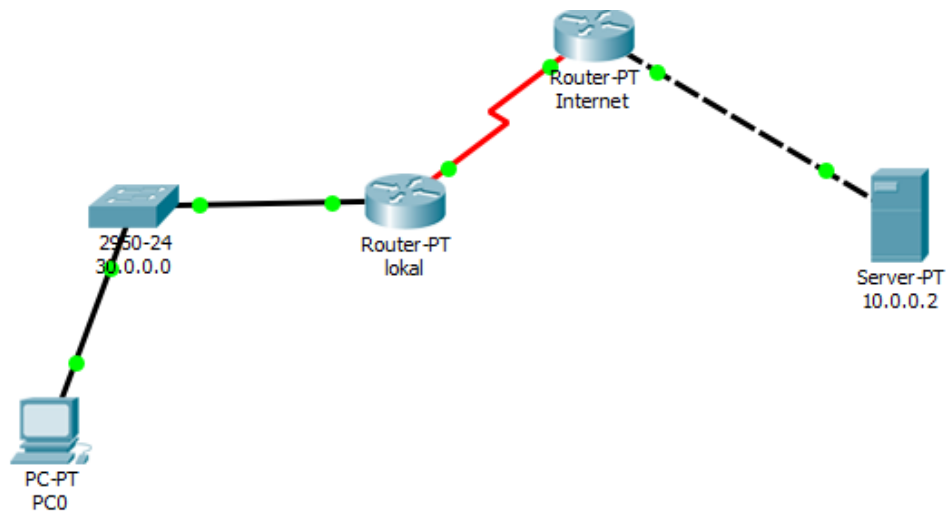
NIM : L200170146

Kelas : C

## PRAKTIKUM MODUL 9

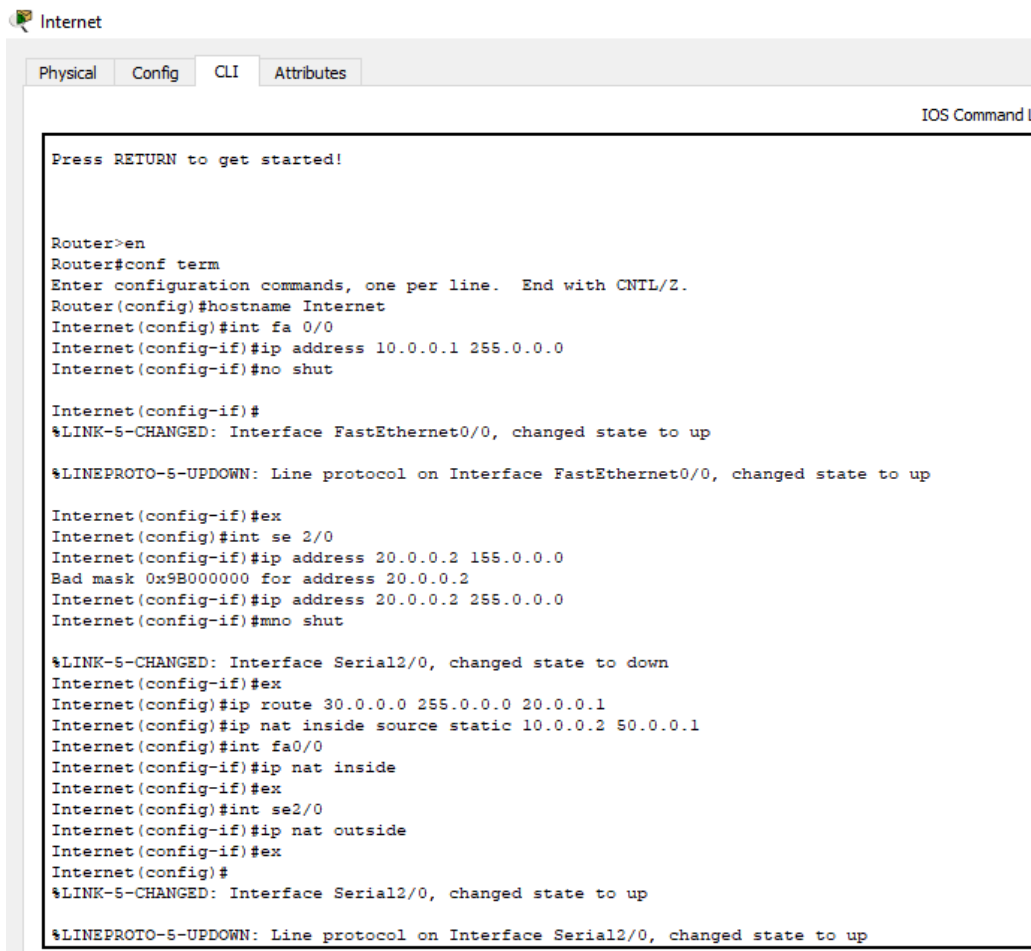
### Kegiatan Praktikum

1. Membuat topologi jaringan sesuai pada gambar



2. Konfigurasi Router Internet

- Merubah nama hostname
- Konfigurasi se 2/0 dan fa 0/0
- Mengaktifkan routing agar mengenali network 30.0.0.0
- Mengaktifkan nat source static untuk IP 10.0.0.2 pada jaringan 10.0.0.0 agar ditranslasikan menjadi 50.0.0.1
- Mengaktifkan NAT inside untuk port fa 0/0 dan NAT outside untuk se 2/0



The image shows a Cisco Packet Tracer window titled 'Internet'. It has tabs for 'Physical', 'Config', 'CLI', and 'Attributes'. The 'CLI' tab is active, displaying a terminal window with the following text:

```
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 fa 0/0
Internet(config-if)#ip address 10.0.0.1 255.0.0.0
Internet(config-if)#no shut

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)#ex
Internet(config)#int se 2/0
Internet(config-if)#ip address 20.0.0.2 155.0.0.0
Bad mask 0x9B000000 for address 20.0.0.2
Internet(config-if)#ip address 20.0.0.2 255.0.0.0
Internet(config-if)#mno shut

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Internet(config-if)#ex
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)#ex
Internet(config)#int se2/0
Internet(config-if)#ip nat outside
Internet(config-if)#ex
Internet(config)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
```

### 3. Konfigurasi Router Lokal

- Merubah nama hostname menjadi lokal
- Mengkonfigurasi fa 0/0 dan memberi IP 30.0.0.1 subnet 255.0.0.0 dan mengaktifkan port fa 0/0
- Mengkonfigurasi port se 2/0 dan memberi IP kemudian mengaktifkannya
- Mengaktifkan clockrate dan bandwidth
- Memberikan tabel routing statis



Physical Config CLI Attributes

IOS Comm

```
Router>en
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 shut

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)#ex
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)#bandwidth 64
Lokal(config-if)#
^
% Invalid input detected at '^' marker.

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

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

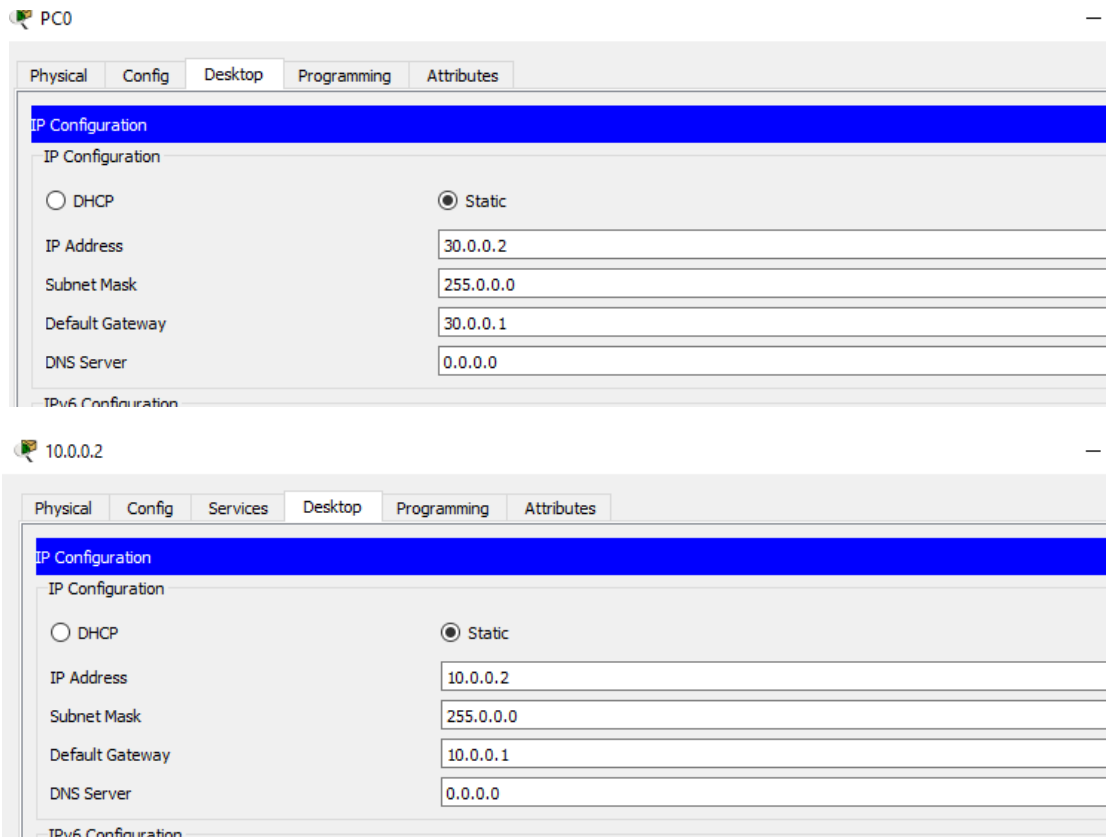
Lokal(config-if)#ex
Lokal(config)#ip route
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

% Incomplete command.
Lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Lokal(config)#ex
Lokal#
%SYS-5-CONFIG_I: Configured from console by console

Lokal#configure terminal

% Incomplete command.
Lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Lokal(config)#ex
Lokal#
%SYS-5-CONFIG_I: Configured from console by console

Lokal#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Lokal(config)#interface Serial2/0
Lokal(config-if)#
Lokal(config-if)#exit
Lokal(config)#interface FastEthernet0/0
Lokal(config-if)#
```



4. Melakukan ping untuk menguji apakah konfigurasi NAT berhasil atau tidak. Ping terhadap IP asli dari web server.

```
Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

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

5. Melakukan ping terhadap IP publik dari web server.

```
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=1ms 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

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 = 2ms, Average = 1ms
```

6. Kembangkan topologi menjadi seperti pada gambar
- Lalu dikonfigurasi agar PC1, PC2, dapat terkoneksi dengan server

