

## Laporan Praktikum Jaringan Komputer

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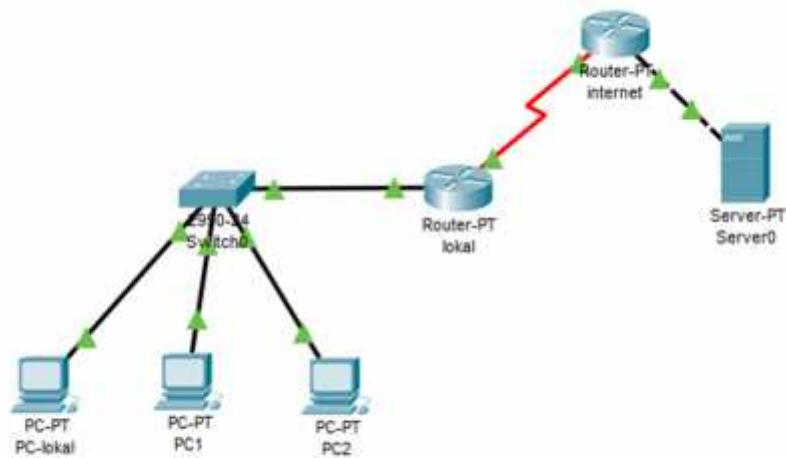
NIM : L200170130

Kelas : C

Modul : 9 (Static Network Address Translation)

### Kegiatan Praktikum.

Topologi praktek.



### Nomer 2.

Konfigurasi IP Address.

Device	Interface	IP Address
Router-Internet	Serial 0	20.0.0.2
	Ethernet 0	10.0.0.1
Router-Lokal	Serial 0	20.0.0.1
	Ethernet 0	30.0.0.1
Web Server	Ethernet 0	10.0.0.2
	Gateway	10.0.0.1
PC-Lokal	Ethernet 0	30.0.0.2
	Gateway	30.0.0.1

## Router-Internet

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#ip address 20.0.0.2 255.0.0.0
Router(config-if)#clock rate 128000
This command applies only to DCE interfaces
Router(config-if)#no shutdown
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(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
|
```

## Router-Lokal

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#clock rate 128000
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
ip address 30.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(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
|
```

## Web Server

The 'Server0' configuration window shows the 'Desktop' tab. It contains fields for IP Address (10.0.0.2), Subnet Mask (255.0.0.0), Default Gateway (10.0.0.1), and DNS Server (0.0.0.0). The IPv6 Configuration section has 'Static' selected, with fields for IPv6 Address, Link Local Address (FE80::201:63FF:FE4E:D6A3), IPv6 Gateway, and IPv6 DNS Server. The 802.1X section has 'Use 802.1X Security' unchecked, 'Authentication' set to 'MD5', and empty fields for Username and Password. A 'Top' button is at the bottom left.

Server0

Physical Config Services **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 10.0.0.2

Subnet Mask 255.0.0.0

Default Gateway 10.0.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:63FF:FE4E:D6A3

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

## PC-Lokal

The 'PC-Lokal' configuration window shows the 'Desktop' tab. It contains fields for IP Address (30.0.0.2), Subnet Mask (255.0.0.0), Default Gateway (30.0.0.1), and DNS Server (0.0.0.0). The IPv6 Configuration section has 'Static' selected, with fields for IPv6 Address, Link Local Address (FE80::240:BFF:FE28:B1C9), IPv6 Gateway, and IPv6 DNS Server. The 802.1X section has 'Use 802.1X Security' unchecked, 'Authentication' set to 'MD5', and empty fields for Username and Password. A 'Top' button is at the bottom left.

PC-Lokal

Physical Config **Desktop** Programming Attributes

☐ 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::240:BFF:FE28:B1C9

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

#### Nomer 4.

##### Router-Internet

```
internet#conf term
Enter configuration commands, one per line. End with CNTL/Z.
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)#
```

#### Nomer 5.

##### Router-Lokal

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname lokal
lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
lokal(config)#exit
lokal#
%SYS-5-CONFIG_I: Configured from console by console
```

#### Nomer 6.

##### Uji koneksi dari PC-Lokal ke 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),
```

*Ping ke IP Private 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=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=10ms 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
C:\>
```

*Ping ke IP Public Server*