

Laporan Praktikum Jaringan Komputer

Nama : Muhammad Rizky K H

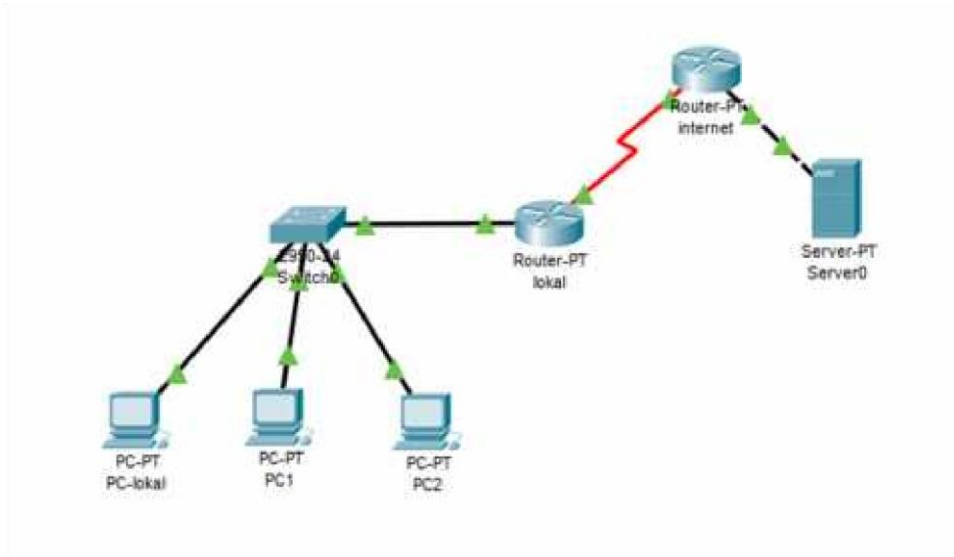
NIM : L200170133

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 screenshot shows the configuration window for 'Server0' with the 'Desktop' tab selected. The window has tabs for Physical, Config, Services, Desktop, Programming, and Attributes. The Desktop tab contains settings for DHCP, Static IP, IPv6, and 802.1X.

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 screenshot shows the configuration window for 'PC-Lokal' with the 'Desktop' tab selected. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab contains settings for DHCP, Static IP, IPv6, and 802.1X.

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::240:8FF: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