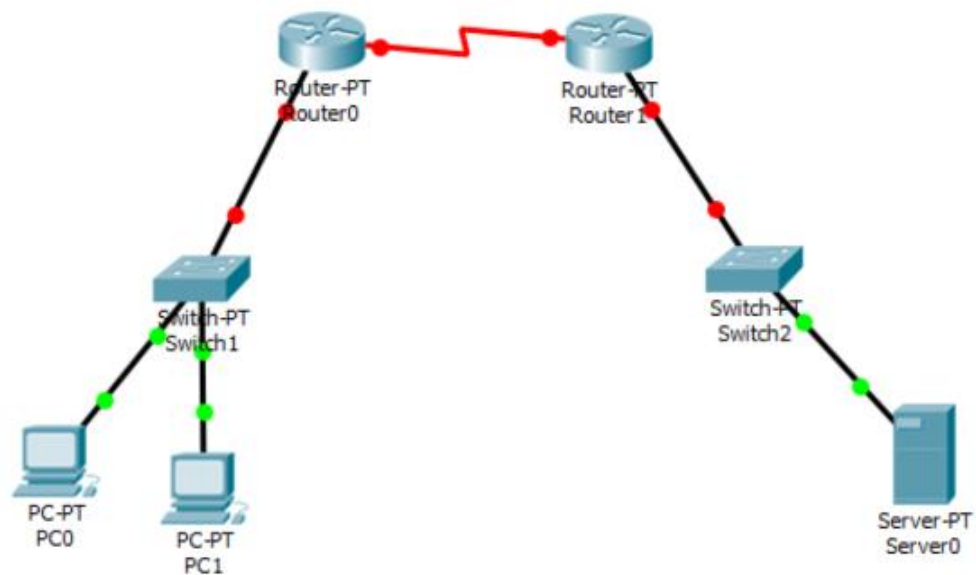


Nama : Sukma Nindi Listyarini
NIM : L200170147
Kelas : F

LAPORAN PRAKTIKUM - JARINGAN KOMPUTER

MODUL 9

1. Membuat topologi seperti gambar dibawah dengan menggunakan Cisco Packet Tracer.
2. Mengubah nama untuk setiap device.



3. Melakukan konfigurasi Router Internet

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

4. Membuat konfigurasi untuk router Local.

```
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
% Incomplete command.
Router(config-if)#exit
Router(config)#hostname lokal
lokal(config)#int fa 0/0
lokal(config-if)#ip address 30.0.0.1 255.0.0.0
^
% Invalid input detected at '^' marker.

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
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 6400
Unknown clock rate
lokal(config-if)#clock rate 64000
This command applies only to DCE interfaces
lokal(config-if)#bandwidth 64
lokal(config-if)#no shutdown

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

lokal(config-if)#exit
```

5. Melakukan konfigurasi PC, router dan web server

The screenshot shows the 'Server0' configuration window with the 'Config' tab selected. The 'IP Configuration' section is active, showing 'Static' as the selected option. The IP Address is set to 10.0.0.2, Subnet Mask to 255.0.0.0, Default Gateway to 10.0.0.1, and DNS Server to 0.0.0.0. The 'IPv6 Configuration' section is also visible, with 'Static' selected and a Link Local Address of FE80::207:ECFF:FEE1:45BA.

IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> 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		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::207:ECFF:FEE1:45BA	
IPv6 Gateway		
IPv6 DNS Server		

The screenshot shows the 'PC0' configuration window with the 'Config' tab selected. The 'IP Configuration' section is active, showing 'Static' as the selected option. The IP Address is set to 30.0.0.2, Subnet Mask to 255.0.0.0, Default Gateway to 20.0.0.1, and DNS Server to 0.0.0.0. The 'IPv6 Configuration' section is also visible, with 'Static' selected and a Link Local Address of FE80::202:4AFF:FE31:86E0.

IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	30.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	20.0.0.1
DNS Server	0.0.0.0

IPv6 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::202:4AFF:FE31:86E0	
IPv6 Gateway		
IPv6 DNS Server		

6. Melakukan uji coba dari PC-Lokal ke Web Server

```
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:\>
```

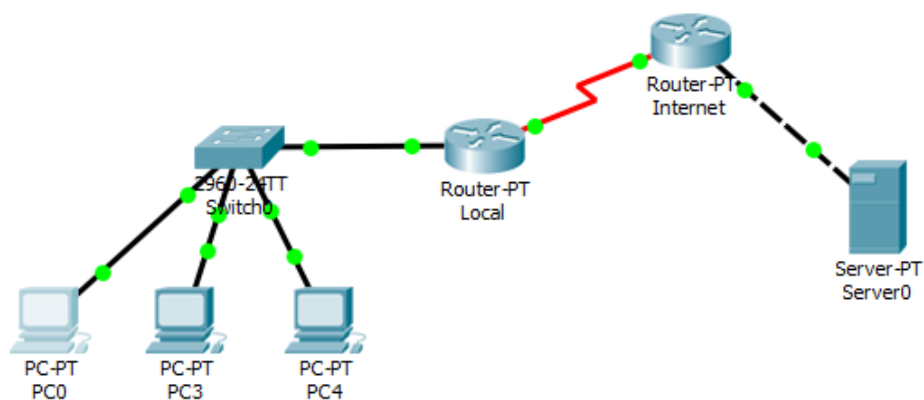
```
C:\>ping 50.0.0.1

Pinging 50.0.0.1 with 32 bytes of data:

Reply from 50.0.0.1: bytes=32 time=3ms 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 = 3ms, Average = 1ms
```

7. Mengembangkan topologi dari langkah poin 1 menjadi topologi seperti gambar dibawah



8. Melakukan konfigurasi untuk PC1 dan PC2

PC3

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 20.0.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:58FF:FEBA:741C

IPv6 Gateway

IPv6 DNS Server

Top

PC4

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 20.0.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:F7FF:FE9B:DB92

IPv6 Gateway

IPv6 DNS Server

Top

9. Melakukan uji coba antar PC.

```
C:\>ping 30.0.0.3

Pinging 30.0.0.3 with 32 bytes of data:

Reply from 30.0.0.3: bytes=32 time=1ms TTL=128
Reply from 30.0.0.3: bytes=32 time<1ms TTL=128
Reply from 30.0.0.3: bytes=32 time<1ms TTL=128
Reply from 30.0.0.3: bytes=32 time<1ms TTL=128

Ping statistics for 30.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```