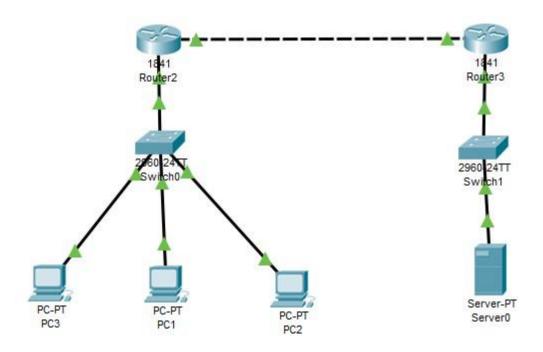
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NIM : L200160101

MODUL 5

1. ROUTING



• Setting IP router 1

Yang mengarah ke switch



Yang mengarah ke Router 2

RIP	IP Configuration	
SWITCHING	IP Address Subnet Mask	10.10.10.1
VLAN Database		255,255,255,248
INTERFACE		255.255.255.246
FastEthernet0/0	Excess (excess)	
FastEthernet0/1	Tx Ring Limit	10

• Setting IP router 2

Yang mengarah ke Router 1



Yang mengarah ke switch



Pemberian IP Address pada masing-masing PC

PC 1



PC 2



PC 3



Pemberian IP pada server

IP Address	192.168.1.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1

Routing di Router 1

```
Router(config) #ip route 10.10.10.0 255.255.255.248 192.168.1.1
Router(config) #ip route 192.168.1.0 255.255.255.0 10.10.10.2
```

• Routing di Router 2

```
Router(config) #ip route 10.10.10.0 255.255.255.248 192.168.0.1 Router(config) #ip route 192.168.0.0 255.255.255.0 10.10.10.1
```

Tes Ping PC 1 ke PC 2 dan PC 3

```
C:\>ping 192.168.0.3

Pinging 192.168.0.3 with 32 bytes of data:

Reply from 192.168.0.3: bytes=32 time=81ms TTL=128
Reply from 192.168.0.3: bytes=32 time<1ms TTL=128
Reply from 192.168.0.3: bytes=32 time<1ms TTL=128
Reply from 192.168.0.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.0.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 81ms, Average = 21ms

C:\>ping 192.168.0.4

Pinging 192.168.0.4 with 32 bytes of data:

Reply from 192.168.0.4: bytes=32 time=1ms TTL=128
Reply from 192.168.0.4: bytes=32 time=1ms TTL=128
Reply from 192.168.0.4: bytes=32 time=1ms TTL=128
Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
Reply from 192.168.0.4: bytes=3
```

• Tes Ping dari PC 1 ke 192.168.0.1 dan 10.10.10.1

```
C:\>ping 192.168.0.1
Pinging 192.168.0.1 with 32 bytes of data:
Reply from 192.168.0.1: bytes=32 time=98ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255 Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Ping statistics for 192.168.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
     Minimum = Oms, Maximum = 98ms, Average = 24ms
C:\>ping 10.10.10.1
Pinging 10.10.10.1 with 32 bytes of data:
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255 Reply from 10.10.10.1: bytes=32 time=4ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Reply from 10.10.10.1: bytes=32 time<1ms TTL=255
Ping statistics for 10.10.10.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 4ms, Average = 1ms
```

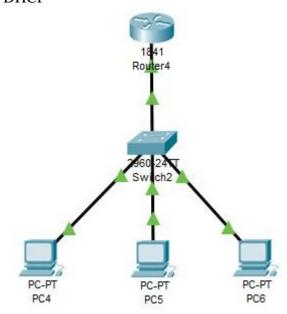
• Tes Ping dari PC 1 ke server

```
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=126
Reply from 192.168.1.2: bytes=32 time=12ms TTL=126
Reply from 192.168.1.2: bytes=32 time=12ms TTL=126
Reply from 192.168.1.2: bytes=32 time=10ms TTL=126
Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 12ms, Average = 8ms</pre>
```

2. DHCP



Mengaktifkan DHCP server pada router

```
Router(config) #interface FastEthernet0/0
Router(config-if) #ip address 192.168.0.1 255.255.255.0
Router(config-if) #ip address 192.168.0.1 255.255.255.0
Router(config-if) #no shutdown
Router(config-if) #ex
Router(config) #router rip
Router(config-router) #network 192.168.0.0
Router(config-router) #ex
Router(config) #ip dhcp pool fki
Router(dhcp-config) #network 192.168.0.0 255.255.255.0
Router(dhcp-config) #%DHCPD-4-PING_CONFLICT: DHCP address conflict:
server pinged 192.168.0.1.
```

• Cek PC client (sudah dapat IP address otomatis)

