MODUL 5

ROUTER, DHCP

Berlian Edra / L200164013

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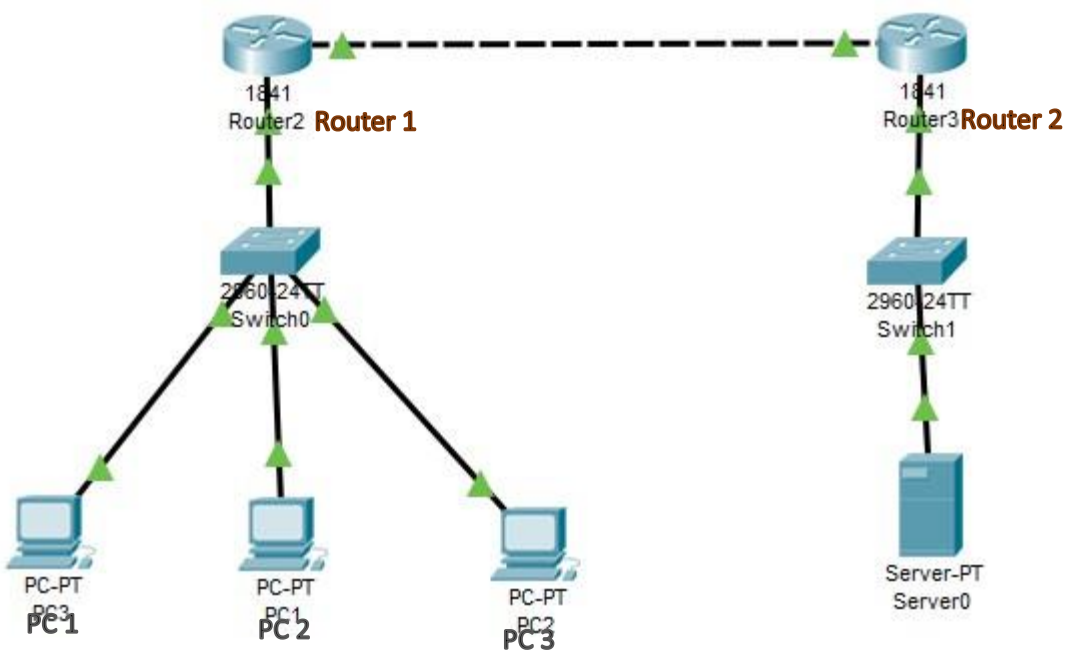
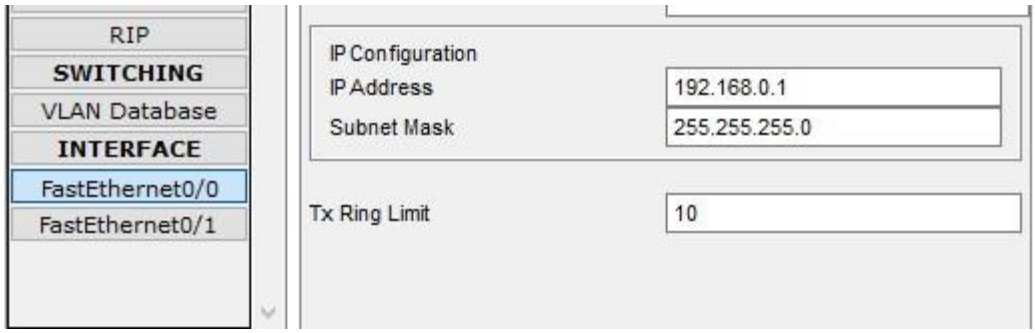
1. ROUTING

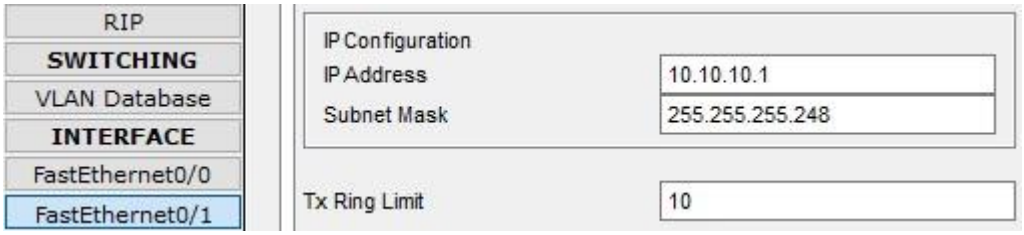


- Setting IP router 1

  Yang mengarah ke switch

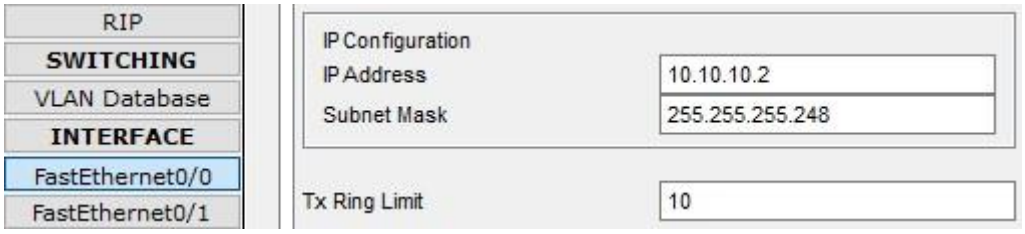


  Yang mengarah ke Router 2



- Setting IP router 2

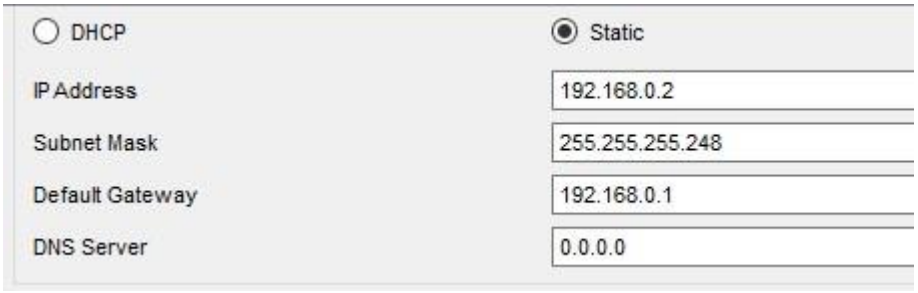
Yang mengarah ke Router 1



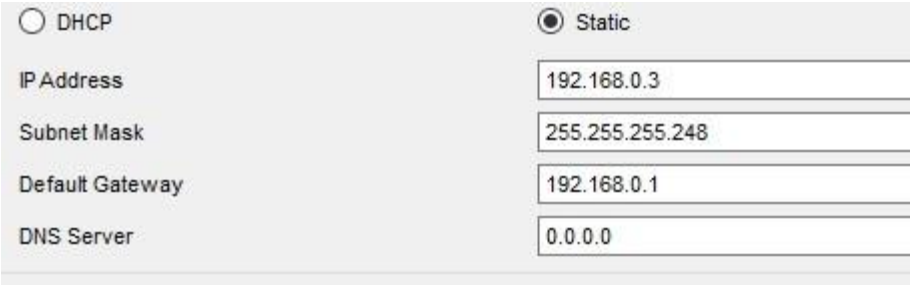
Yang mengarah ke switch

- Pemberian IP Address pada masing-masing PC

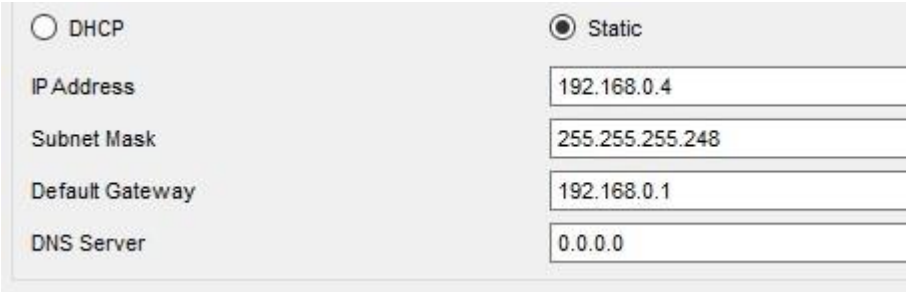
PC 1



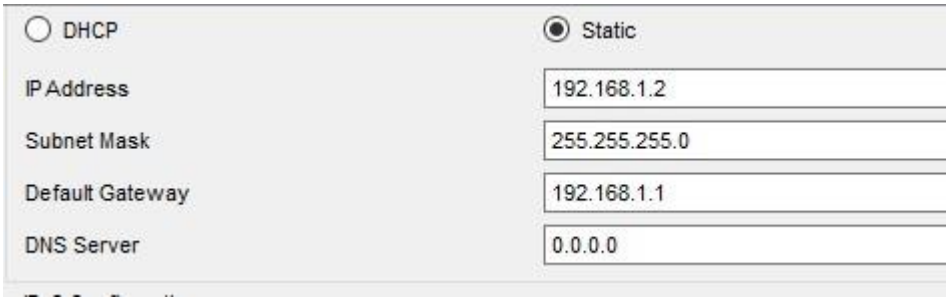
PC 2



PC 3



- Pemberian IP pada server



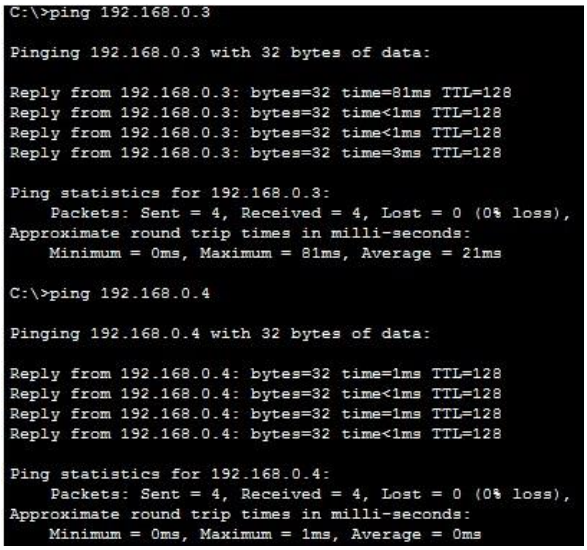
- Routing di Router 1

```
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



- 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 = 0ms, 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

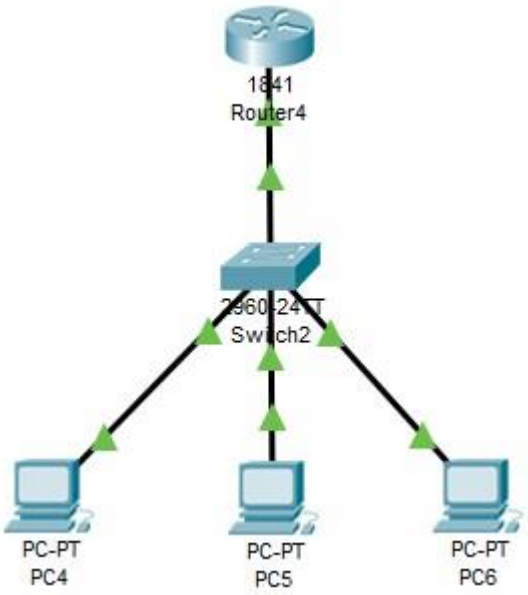
```
C:\>ping 192.168.1.2

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
```

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)