

Nama : Tarisa Dwi Septia

NIM : 205410126

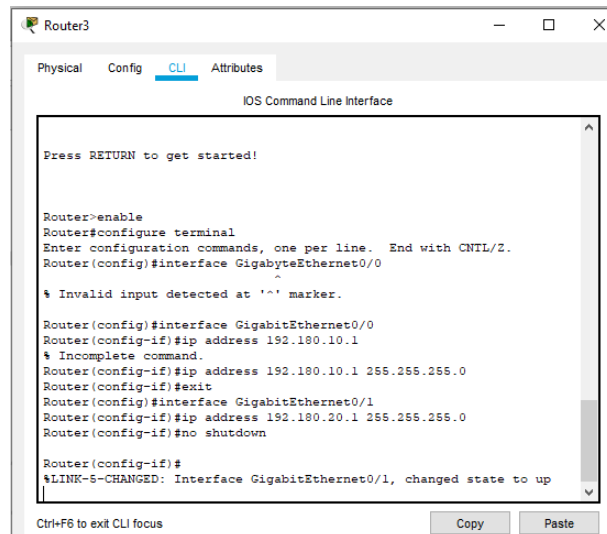
## Praktikum Pertemuan Ke-6

### A. Praktik!!

1. Terdapat sebuah router yang dihubungkan dengan 2 buah switch, untuk menghubungkan 2 jaringan. Jaringan A: IP network 192.180.10.0, Subnet Mask: 255.255.255.0 dan jaringan B: IP network 192.180.20.0, Subnet Mask: 255.255.255.0.

- Konfigurasi R1

- Klik R1
- Pilih tab CLI, buatlah konfigurasi seperti berikut



```
Router3
Physical Config CLI Attributes
IOS Command Line Interface

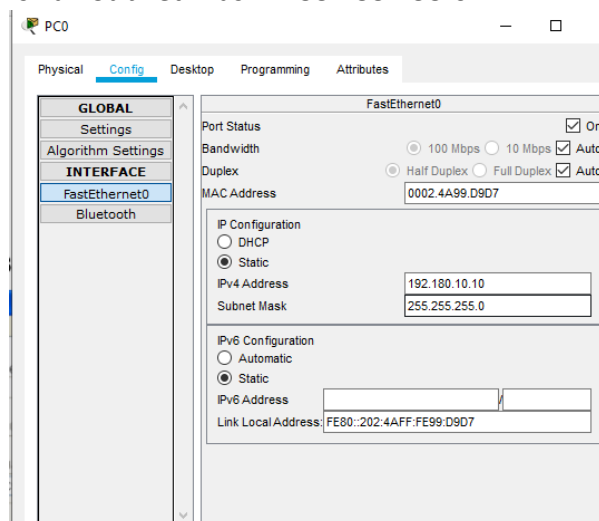
Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.180.10.1 255.255.255.0
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip address 192.180.20.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

Ctrl+F6 to exit CLI focus
```

- Konfigurasi PC 0 di Jaringan A

- Pilih tab Config
- Klik FastEthernet
- Isikan IP Address : 192.180.10.10
- Isikan Subnet Mask : 255.255.255.0



PC0

Physical Config Desktop Programming Attributes

**GLOBAL**

- Settings
- Algorithm Settings
- INTERFACE**
- FastEthernet0
- Bluetooth

**FastEthernet0**

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☒ Half Duplex ☐ Full Duplex ☒ Auto

MAC Address: 0002.4A99.D9D7

IP Configuration

☐ DHCP

☒ Static

IPv4 Address: 192.180.10.10

Subnet Mask: 255.255.255.0

IPv6 Configuration

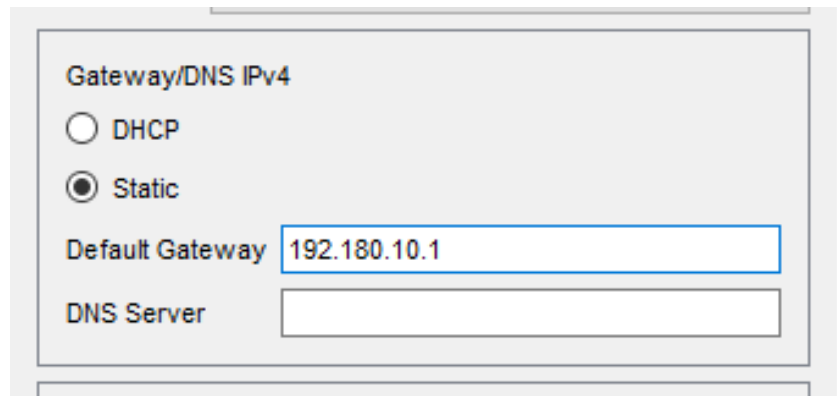
☐ Automatic

☒ Static

IPv6 Address:

Link Local Address: FE80::202:4AFF:FE99:D9D7

- Isikan IP Gateway Klik Settings isikan IP Gateway 192.180.10.1 (IP Fa0/0 router1)



Gateway/DNS IPv4

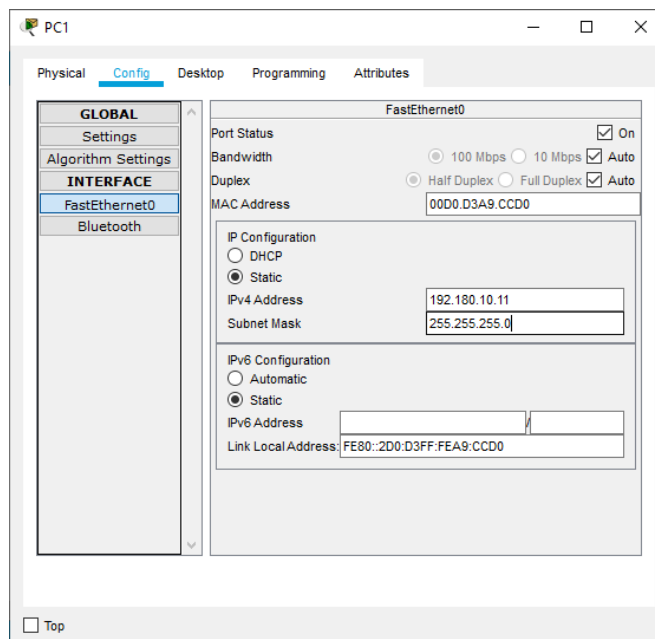
☐ DHCP

☒ Static

Default Gateway

DNS Server

- Konfigurasi PC 1 di Jaringan A
  - Pilih tab Config
  - Klik FastEthernet
  - Isikan IP Address : 192.180.10.11
  - Isikan Subnet Mask : 255.255.255.0



PC1

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☒ Half Duplex ☐ Full Duplex ☒ Auto

MAC Address

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

Subnet Mask

IPv6 Configuration

☐ Automatic

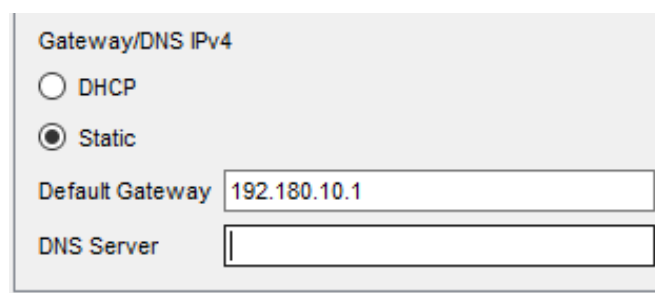
☒ Static

IPv6 Address

Link Local Address:

☐ Top

- Isikan IP Gateway 192.180.10.1



Gateway/DNS IPv4

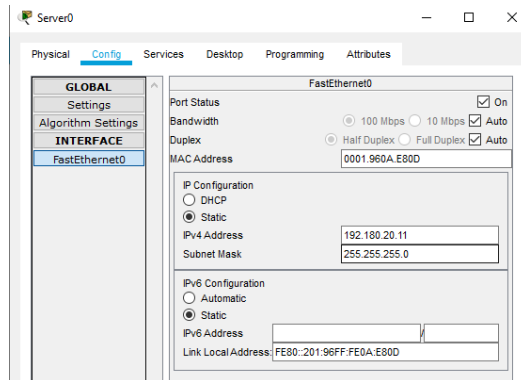
☐ DHCP

☒ Static

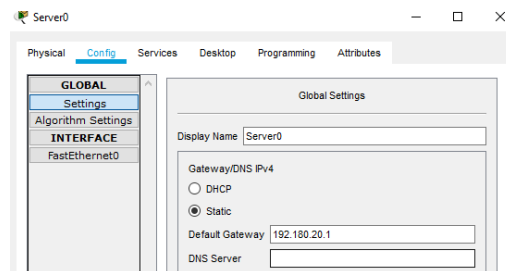
Default Gateway

DNS Server

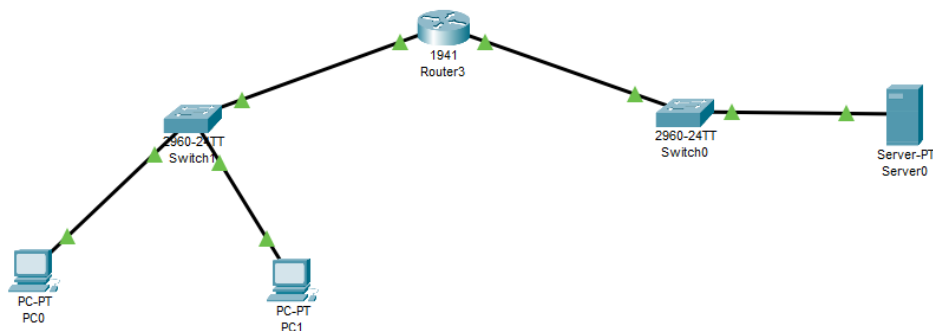
- Konfigurasi Server di Jaringan B
  - o Pilih tab Config
  - o Klik FastEthernet
  - o Isikan IP Address : 192.180.20.1
  - o Isikan Subnet Mask : 255.255.255.0



- o Isikan IP Gateway Klik Settings isikan IP Gateway 192.180.20.1 (IP Fa0/1 router1)



- Topologi



- Melakukan Pengujian

- o Inspect PC0

ARP Table for PC0				Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
IP Address	Hardware Address	Interface										
				●	--	PC0	PC0	ICMP	Blue	0.000	N	15
				●	Successful	PC0	PC0	ICMP	Green	0.000	N	16

- | Type | Network         | Port               | Next Hop IP | Metric |
|------|-----------------|--------------------|-------------|--------|
| C    | 192.180.10.0/24 | GigabitEthernet0/0 | ---         | 0/0    |
| L    | 192.180.10.1/32 | GigabitEthernet0/0 | ---         | 0/0    |
| C    | 192.180.20.0/24 | GigabitEthernet0/1 | ---         | 0/0    |
| L    | 192.180.20.1/32 | GigabitEthernet0/1 | ---         | 0/0    |

- | VLAN | Mac Address    | Port            |
|------|----------------|-----------------|
| 1    | 0040.0B13.8601 | FastEthernet0/2 |

1. Pada bagian praktik, tambahkan jaringan pada R1, menggunakan IP address 192.180.30.0 Mask 255.255.255.0,



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## - Gateway PC3

PC3

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

Global Settings

Display NamePC3

InterfacesFastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway192.180.30.1

DNS Server

PC3

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status☒ On

Bandwidth

☒ 100 Mbps

☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex

☒ Full Duplex

☒ Auto

MAC Address000A.F30C.E0E4

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.180.30.11

Subnet Mask255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local AddressFE80::20A:F3FF:FE0C:E0E4