

Nama : Nadya Ayu Widya

Kelas : C

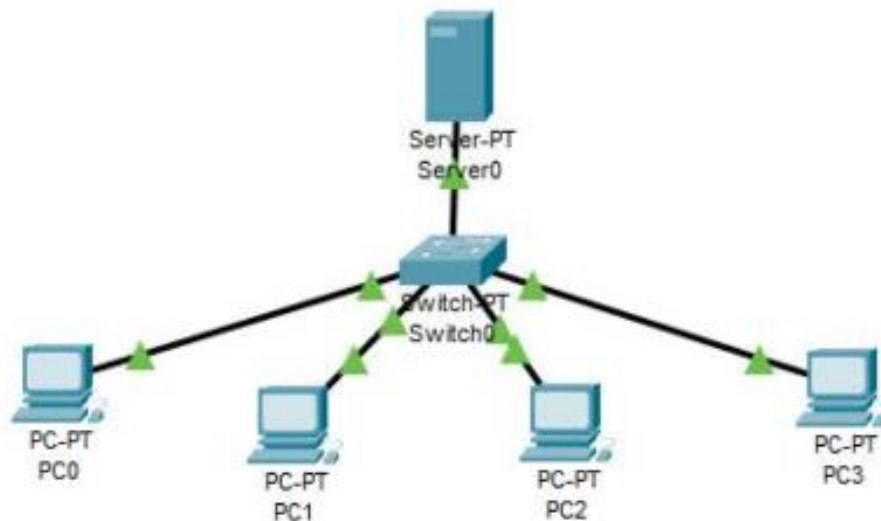
NIM : L200180099

## Modul 5

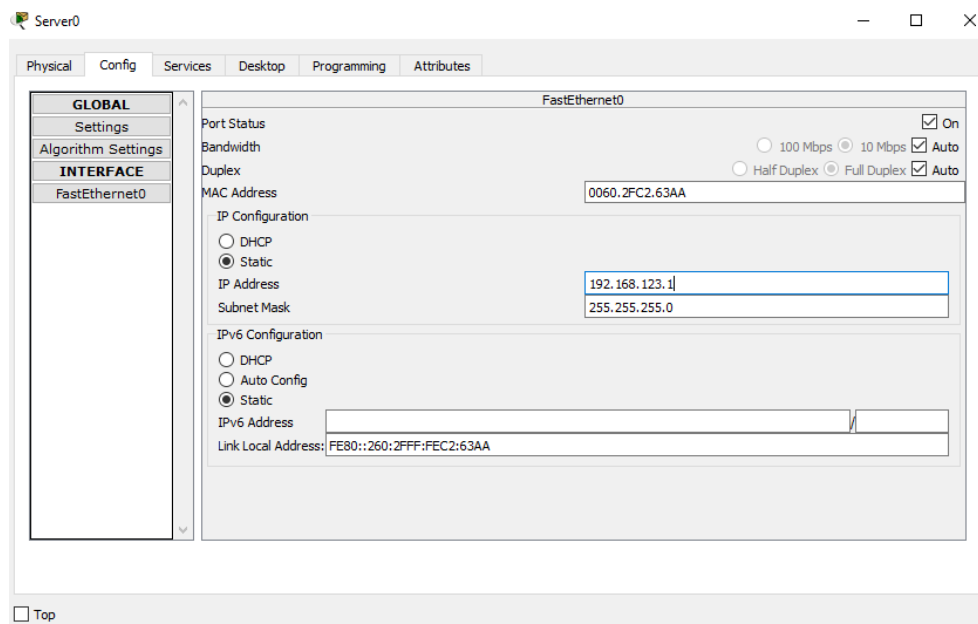
### Kegiatan Praktikum

#### 1) PRAKTIKUM MEMBUAT DHCP SERVER

1. Persiapan simulasi server DHCP dalam contoh ini adalah dengan menggunakan 5 buah workstation, 1 switch dan 1 server sehingga terlihat seperti gambar di bawah ini.



- a. Pada bagian configuration, isikan dengan IP address server, seperti dibawah ini



- b. Pastikan service DHCP On. Isikan blok IP address yang akan diberikan ke PC Client. Contoh konfigurasi seperti dibawah ini, diisikan 192.168.123.19 dan maximum member users = 5.

Server0

Physical Config Services Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management

DHCP

Interface: FastEthernet0 Service: ☐ On ☒ Off

Pool Name: serverPool

Default Gateway: 192.168.123.1

DNS Server: 0.0.0.0

Start IP Address: 192 168 123 19

Subnet Mask: 255 255 255 0

Maximum Number of Users: 237

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.123.1	0.0.0.0	192.168.123...	255.255.255.0	237	0.0.0.0	0.0.0.0

☐ Top

- c. Kemudian konfigurasi setiap PC yang ada pada serverDHPC

PC0

Physical Config Desktop Programming Attributes

**IP Configuration**

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IP Address: 192.168.123.20

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.123.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:97FF:FE78:3C39

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Server0

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

DHCP

Interface

FastEthernet0

Service

☐ On
☒ Off

Pool Name

serverPool

Default Gateway

192.168.123.1

DNS Server

0.0.0.0

Start IP Address :

192

168

123

19

Subnet Mask:

255

255

255

0

Maximum Number of Users :

237

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

Add

Save

Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.123.1	0.0.0.0	192.168.123...	255.255.255.0	237	0.0.0.0	0.0.0.0

☐ Top

PC1

Physical

Config

Desktop

Programming

Attributes

IP Configuration

IP Configuration

☒ DHCP
☐ Static

DHCP request successful.

IP Address

192.168.123.22

Subnet Mask

255.255.255.0

Default Gateway

192.168.123.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP
☐ Auto Config
☒ Static

IPv6 Address

Link Local Address

FE80::20C:FFFF:FE5C:D3CE

IPv6 Gateway

IPv6 DNS Server

☐ Top

PC1

Physical

Config

Desktop

Programming

Attributes

IP Configuration

IP Configuration

☒ DHCP
☐ Static

DHCP request successful.

IP Address

192.168.123.21

Subnet Mask

255.255.255.0

Default Gateway

192.168.123.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP
☐ Auto Config
☒ Static

IPv6 Address

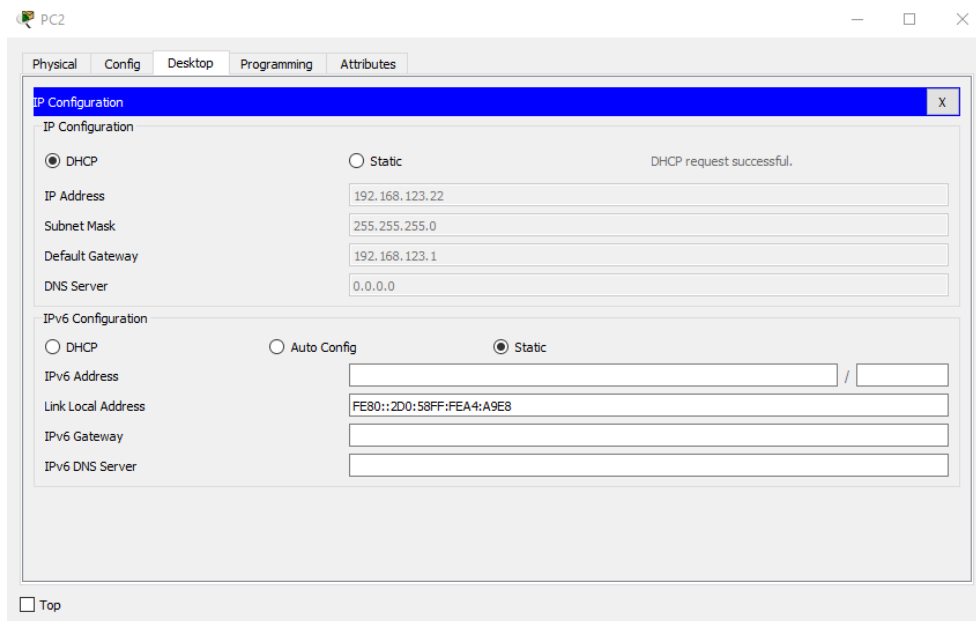
Link Local Address

FE80::20C:FFFF:FE5C:D3CE

IPv6 Gateway

IPv6 DNS Server

☐ Top



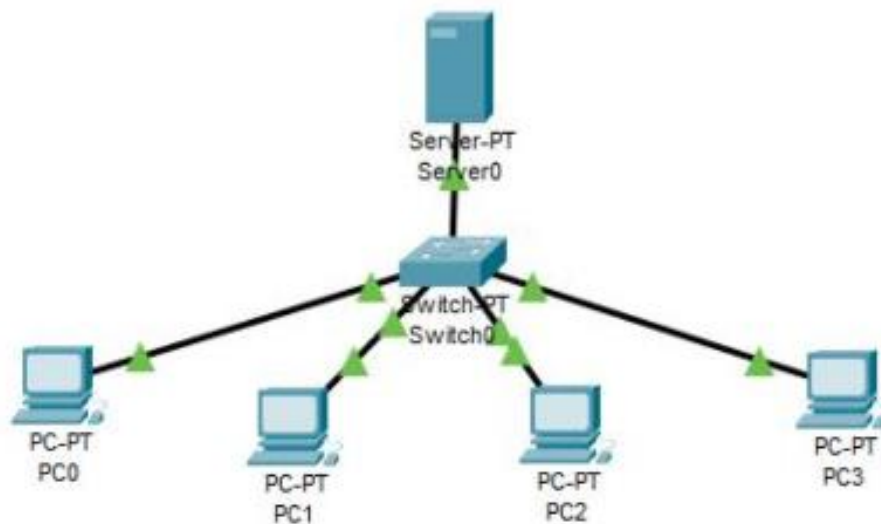
d. Kemudian ping ke semua PC yang terhubung dengan server DHCP.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	
	Successful	PC1	PC2	ICMP		0.000	N	
	Successful	PC2	PC3	ICMP		0.000	N	
	Successful	PC0	PC3	ICMP		0.000	N	
	Successful	PC1	PC3	ICMP		0.000	N	

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	
	Successful	PC1	PC3	ICMP		0.000	N	
	Successful	PC0	PC2	ICMP		0.000	N	
	Successful	Server0	PC1	ICMP		0.000	N	

## 2) PRAKTIKUM 2 MEMBUAT WEB SERVER



- a. Lakukan konfigurasi IP address pada PC0 seperti yang telah dijelaskan sebelumnya.

Server2

Physical Config Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 00E0.8F59.D20D

IP Configuration

☐ DHCP

☒ Static

IP Address: 192.168.123.2

Subnet Mask: 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address:

Link Local Address: FE80::2E0:8FFF:FE59:D20D

☐ Top

- b. Pastikan service DHCP On. Isikan blok IP address yang akan diberikan ke PC Client. Contoh konfigurasi seperti dibawah ini, diisikan 192.168.123.3 dan maximum member users = 5.

Server2

Physical Config Services Desktop Programming Attributes

**SERVICES**

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

**DHCP**

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address: 192 168 123 3

Subnet Mask: 255 255 255 0

Maximum Number of Users: 253

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123.3	255.255.255.0	253	0.0.0.0	0.0.0.0

☐ Top

c. Konfigurasi IP address pada setiap PC pada mode DHCP

PC0(1)

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☒ DHCP ☐ Static Requesting IP Address

IP Address

Subnet Mask

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::2D0:58FF:FEA8:9C7D

IPv6 Gateway

IPv6 DNS Server

Top

PC2(1)

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☒ DHCP ☐ Static Requesting IP Address

IP Address

Subnet Mask

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::2E0:8FFF:FE28:6255

IPv6 Gateway

IPv6 DNS Server

Top

PC1(1)

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IP Address 192.168.1.52

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.2

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

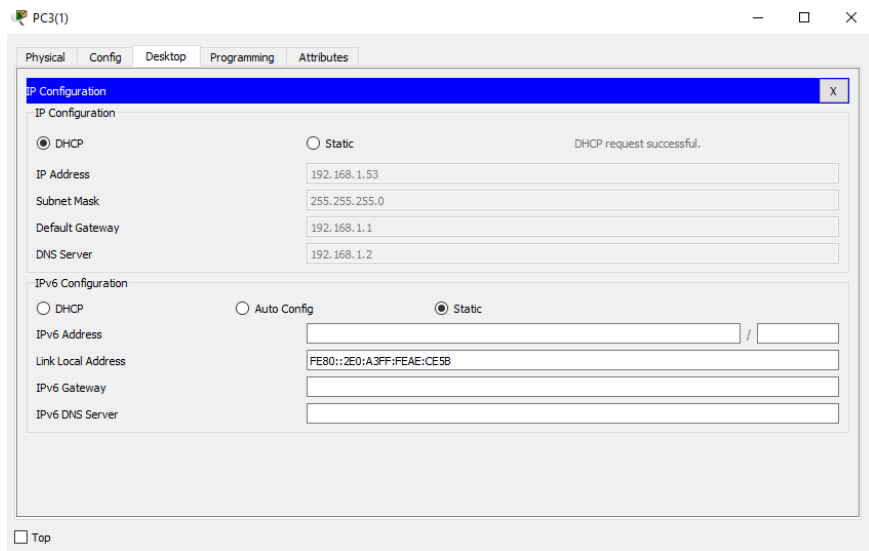
IPv6 Address

Link Local Address FE80::230:F2FF:FEA0:860E

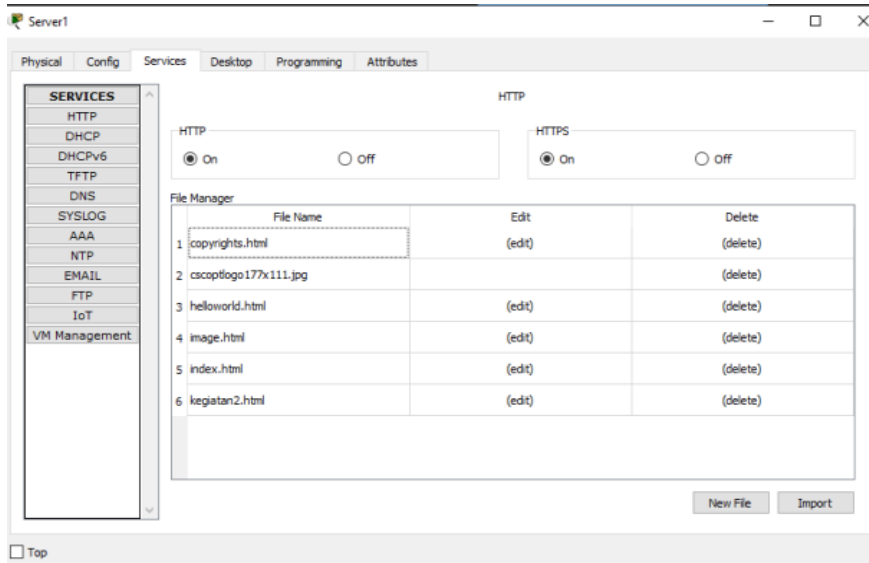
IPv6 Gateway

IPv6 DNS Server

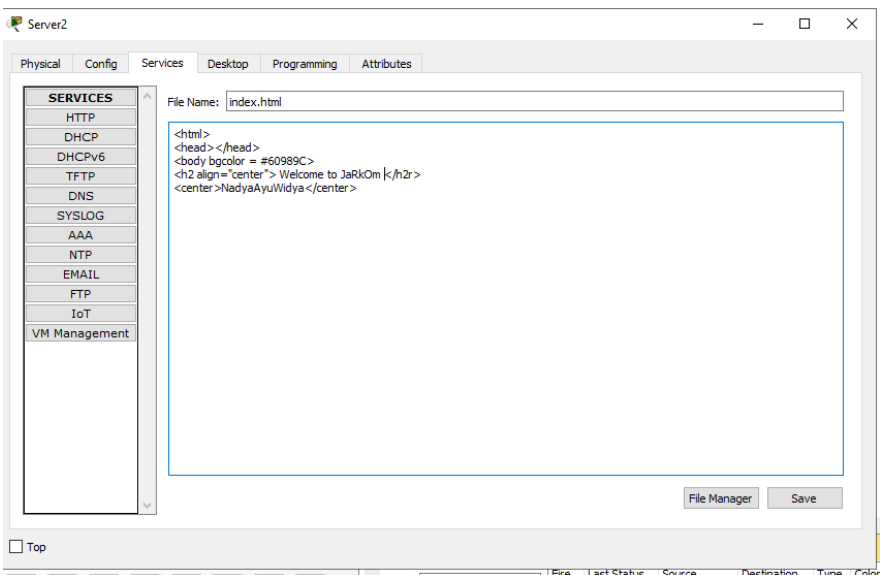
Top



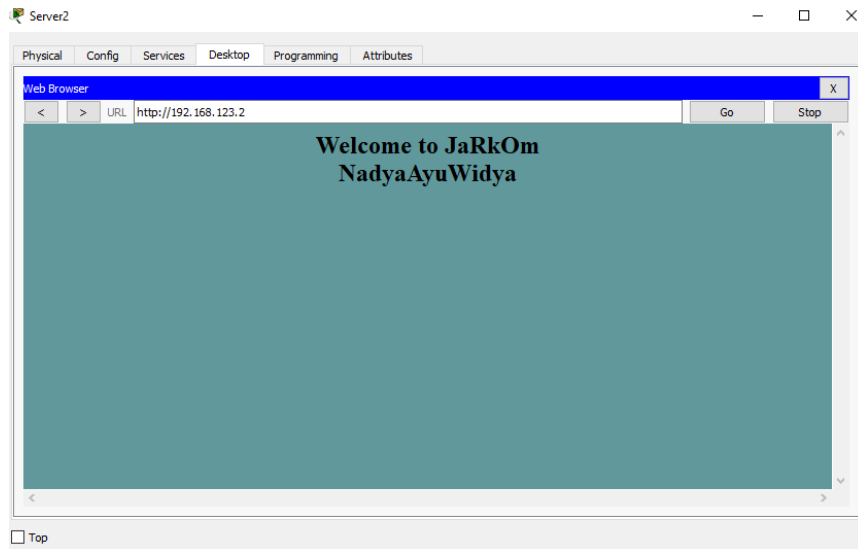
d. Set service HTTP pada mode on.



e. Edit isi dari tag index.html



f. Kemudian lakukan browsing dengan http : 192.168.123.3





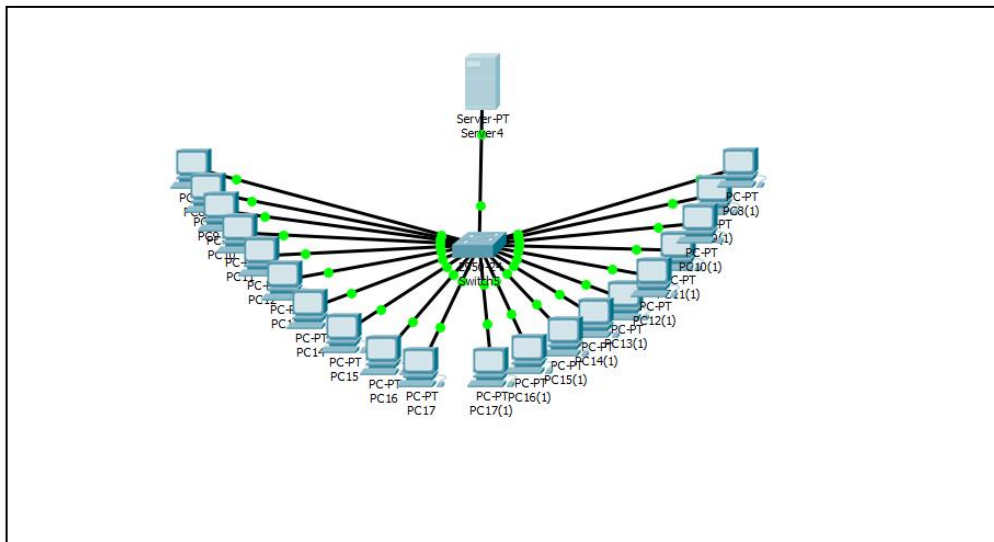
## TUGAS

- Buatlah DHCP server dengan packet tracer dengan client terdiri dari 20 pc
- Buatlah web server pada packet tracer. Dengan mengubah tampilan pada web tersebut.

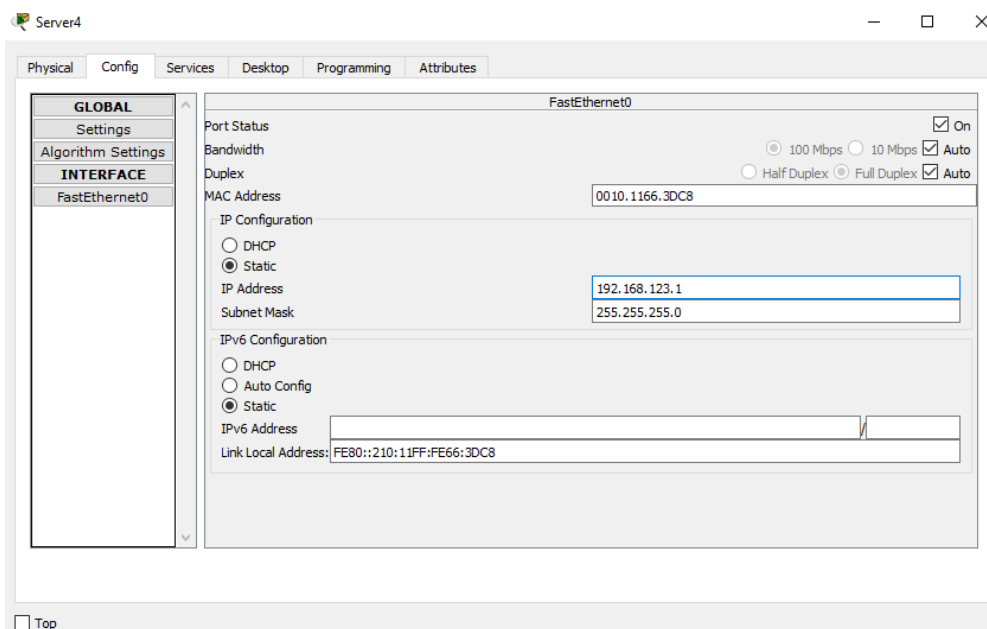
Dengan isi

- Nama
- Nim
- Alamat
- Jurusan
- Jenis
- Jenis kelamin

a) Membentuk desain topologi



b) Dengan IP address server 192.168.123.1



c) Set servis DHCP pada mode ON

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address: 192.168.123.0

Subnet Mask: 255.255.255.0

Maximum Number of Users: 255

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Buttons: Add, Save, Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123.0	255.255.255.0	255	0.0.0.0	0.0.0.0

d) Konfigurasi IP address pada setiap PC pada mode DHCP

IP Configuration

☒ DHCP ☐ Static Requesting IP Address

IP Address:

Subnet Mask:

Default Gateway:

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:70FF:FEAD:BB1A

IPv6 Gateway:

IPv6 DNS Server:

e) Edit isi index.html sesuai ketentuan

File Name: index.html

```
<html>
<body bgcolor=#E96A6A>
<br><a>Nama : Nadya Ayu Widya</a>
<br><a>NIM : L200180099</a>
<br><a>Alamat : Pangkalan Bun, Kalimantan Tengah</a>
<br><a>Jurusan : Informatika</a>
<br><a>Jenis : Manusia</a>
<br><a>Jenis Kelamin : Wanita</a>
</body>
</html>
```

f) Kemudian lakukan browsing dengan http : 192.168.123.1

