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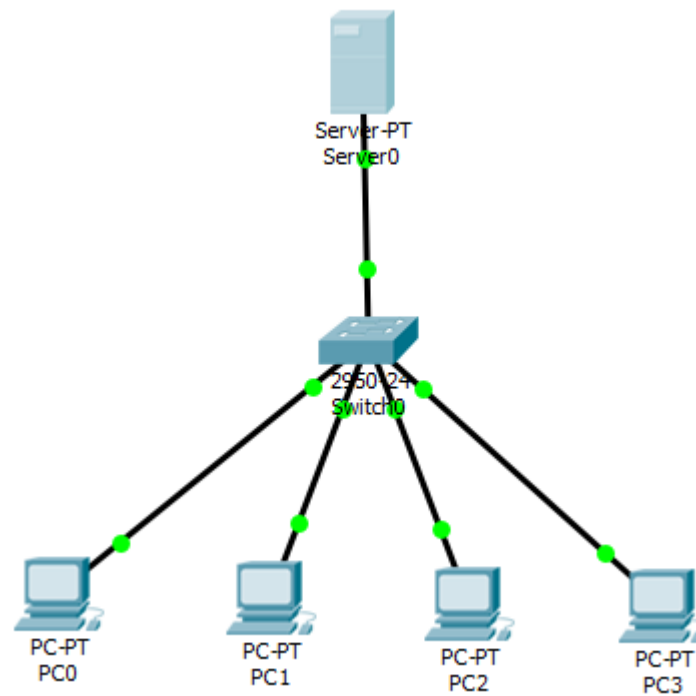
Kelas : B

MODUL 5

DHCP SERVER DAN WEB SERVER

D. Kegiatan Praktikum

1. PRAKTIKUM 1 MEMBUAT DHCP SERVER



- a. Mengkonfigurasi IP pada server0 dengan IP 192.168.123.1 dan subnet mask 255.255.255.0

The screenshot shows the configuration window for 'Server0'. The 'Config' tab is selected, and the 'FastEthernet0' interface is chosen from the left sidebar. The main configuration area for 'FastEthernet0' includes the following settings:

- Port Status:** ☒ On
- Bandwidth:** 100 Mbps (selected), 10 Mbps, ☒ Auto
- Duplex:** Half Duplex, Full Duplex (selected), ☒ Auto
- MAC Address:** 00D0.FF02.EA05
- IP Configuration:**
 - ☐ DHCP
 - ☒ Static
 - IP Address:** 192.168.123.1
 - Subnet Mask:** 255.255.255.0
- IPv6 Configuration:**
 - ☐ DHCP
 - ☐ Auto Config
 - ☒ Static
 - IPv6 Address:** (empty field)
 - Link Local Address:** FE80::2D0:FFFF:FE02:EA05

At the bottom left of the window, there is a 'Top' button.

- b. Mengkonfigurasi DHCP dengan memastikan bahwa servicenya ON, dan menambahkan start IP yang dimulai pada IP 198.168.123.19, dan mengubah maximum number of users, dari 255 menjadi 5.

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' list includes HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, FTP, IoT, and VM Management. The 'DHCP' service is configured for the 'FastEthernet0' interface with the 'Service' set to 'On'. The configuration fields are as follows:

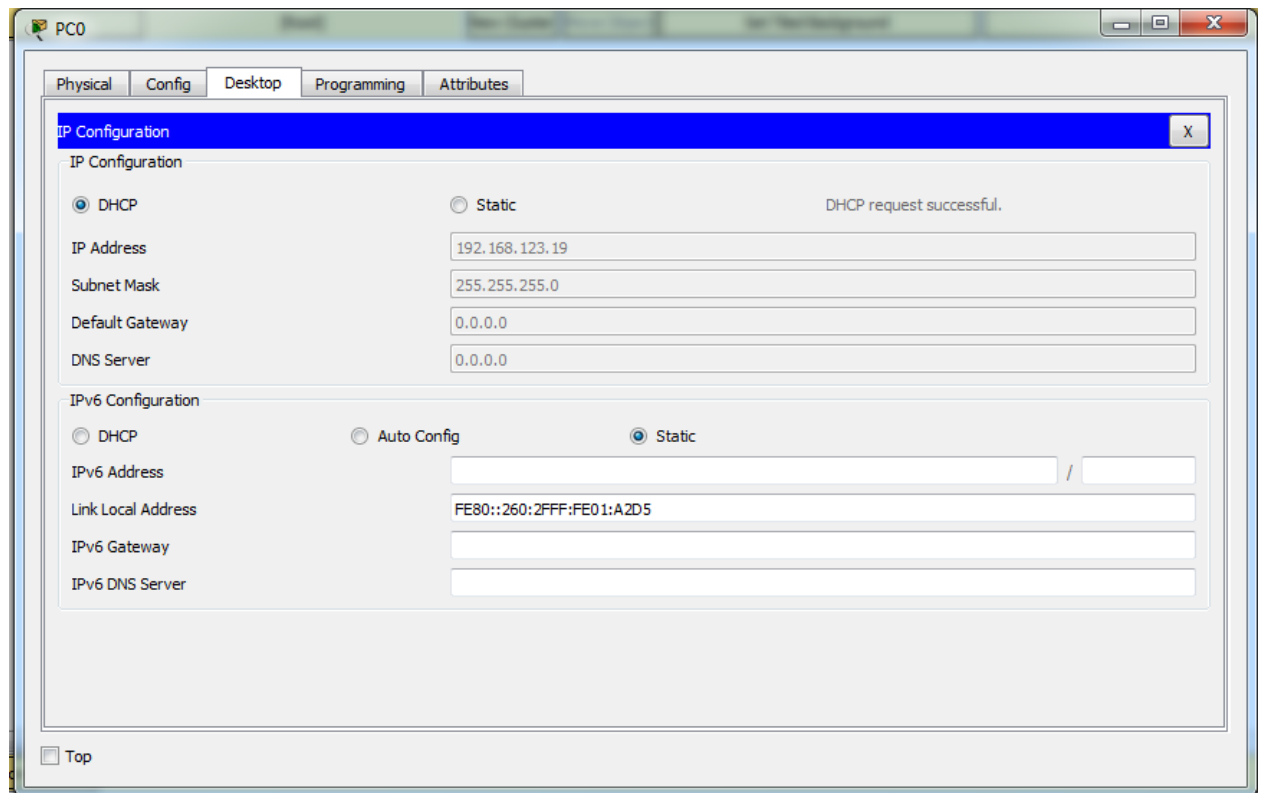
- Interface: FastEthernet0
- Service: On (radio button selected)
- Pool Name: serverPool
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- Start IP Address: 192, 168, 123, 19
- Subnet Mask: 255, 255, 255, 0
- Maximum Number of Users: 5
- TFTP Server: 0.0.0.0
- WLC Address: 0.0.0.0

Below the configuration fields are 'Add', 'Save', and 'Remove' buttons. A table at the bottom displays the current DHCP pool configuration:

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

A 'Top' button is located at the bottom left of the window.

- c. Dari sisi Client (PC), mengkonfigurasi IP Address pada PC hanya dengan mengubah konfigurasi IP dari static ke DHCP, maka IP untuk PC tersebut akan secara otomatis terisi.



PC1

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 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:8FFF:FE76:3B73

IPv6 Gateway

IPv6 DNS Server

Top

PC2

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 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

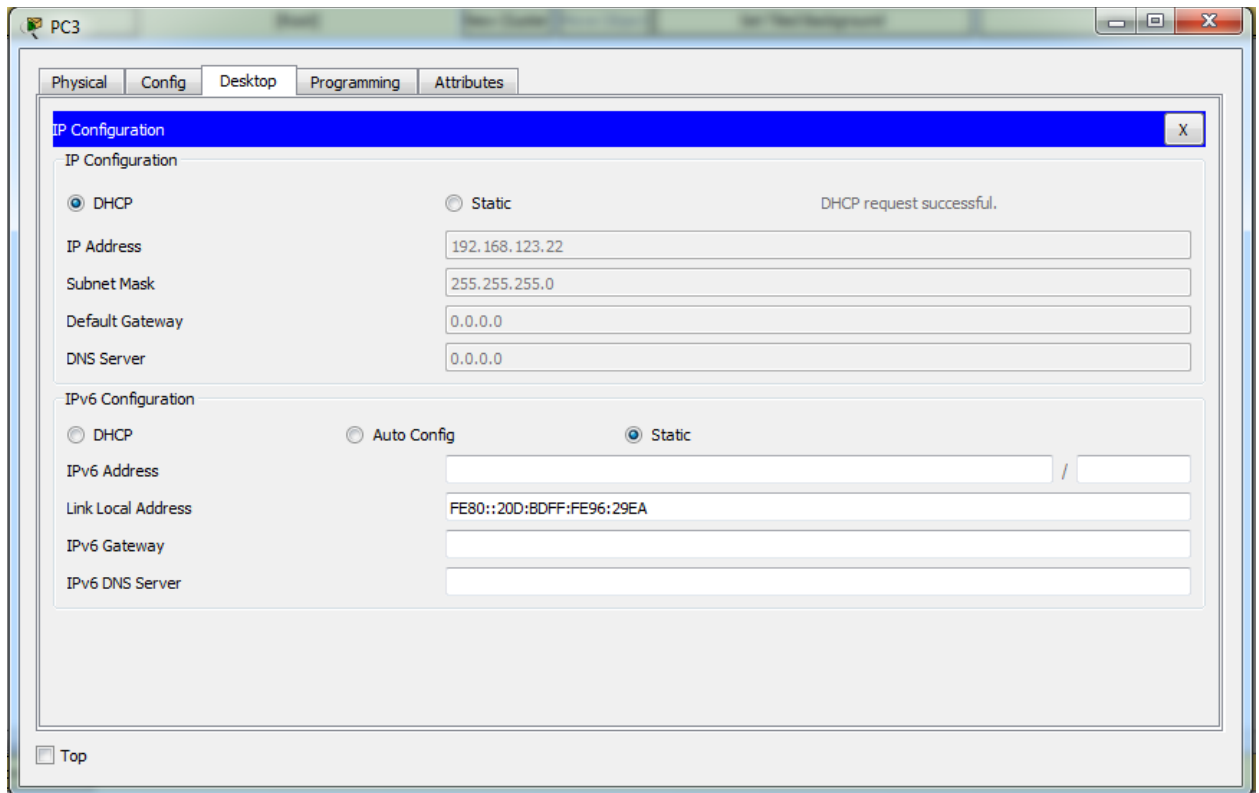
IPv6 Address /

Link Local Address FE80::205:5EFF:FE14:9618

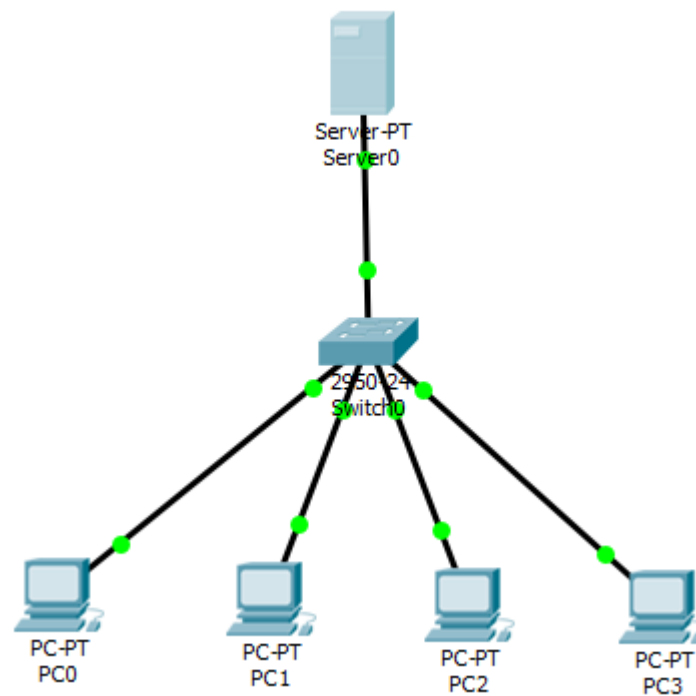
IPv6 Gateway

IPv6 DNS Server

Top



2. PRAKTIKUM 2 MEMBUAT WEB SERVER



a. Mengkonfigurasi IP pada Server dan PC (Caranya sama dengan kegiatan sebelumnya).

The screenshot shows the 'Config' tab for 'FastEthernet0' on 'Server0'. The left sidebar has 'INTERFACE' selected, with 'FastEthernet0' highlighted. The main area shows the following settings:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 00D0.FF02.EA05
- IP Configuration: ☐ DHCP ☒ Static
 - IP Address: 192.168.123.1
 - Subnet Mask: 255.255.255.0
- IPv6 Configuration: ☐ DHCP ☐ Auto Config ☒ Static
 - IPv6 Address: (empty field)
 - Link Local Address: FE80::2D0:FFFF:FE02:EA05

At the bottom left, there is a 'Top' button.

The screenshot shows the 'Services' tab for 'FastEthernet0' on 'Server0'. The left sidebar has 'SERVICES' selected, with 'DHCP' highlighted. The main area shows the following settings:

- Interface: FastEthernet0
- Service: ☒ On ☐ Off
- Pool Name: serverPool
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- Start IP Address: 192.168.123.19
- Subnet Mask: 255.255.255.0
- Maximum Number of Users: 5
- TFTP Server: 0.0.0.0
- WLC Address: 0.0.0.0

Below the settings are three buttons: 'Add', 'Save', and 'Remove'. At the bottom, there is a table showing the configured pool:

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

At the bottom left, there is a 'Top' button.

PC0

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IP Address

192.168.123.19

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

/

Link Local Address

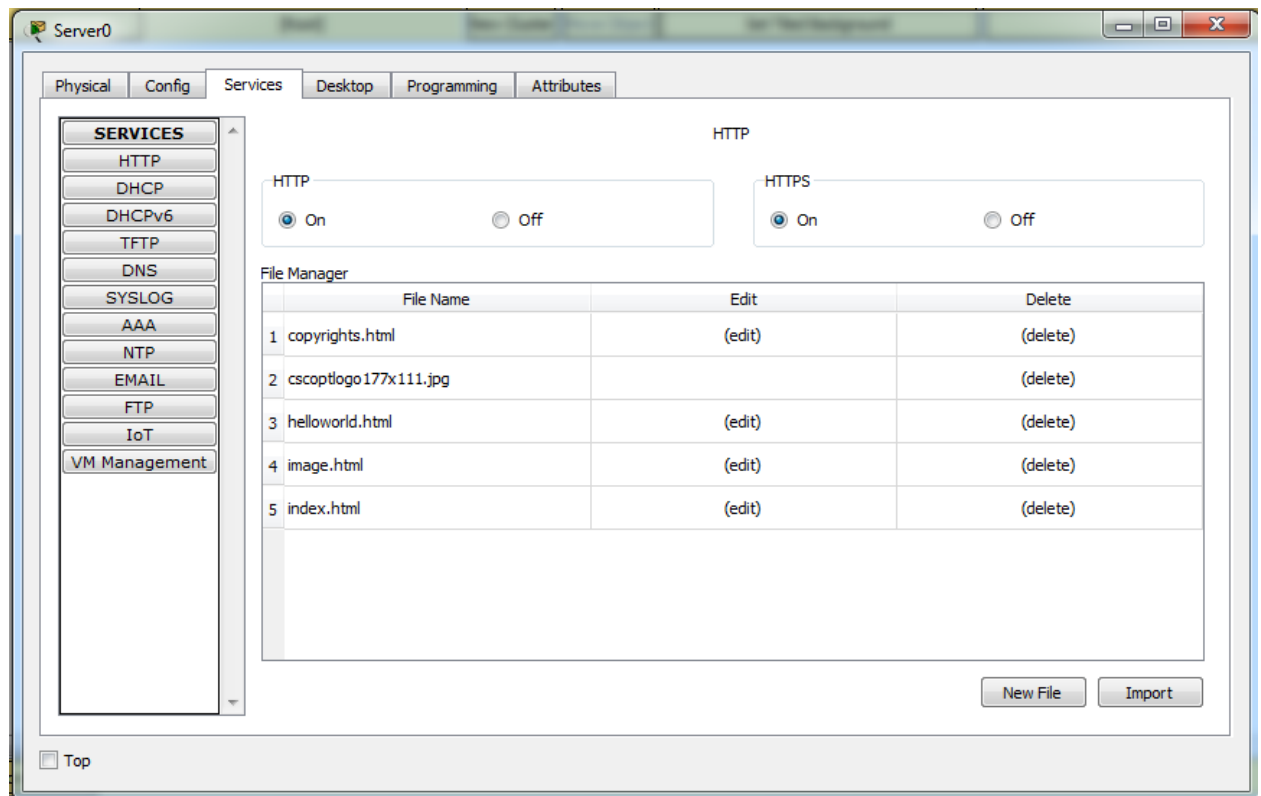
FE80::260:2FFF:FE01:A2D5

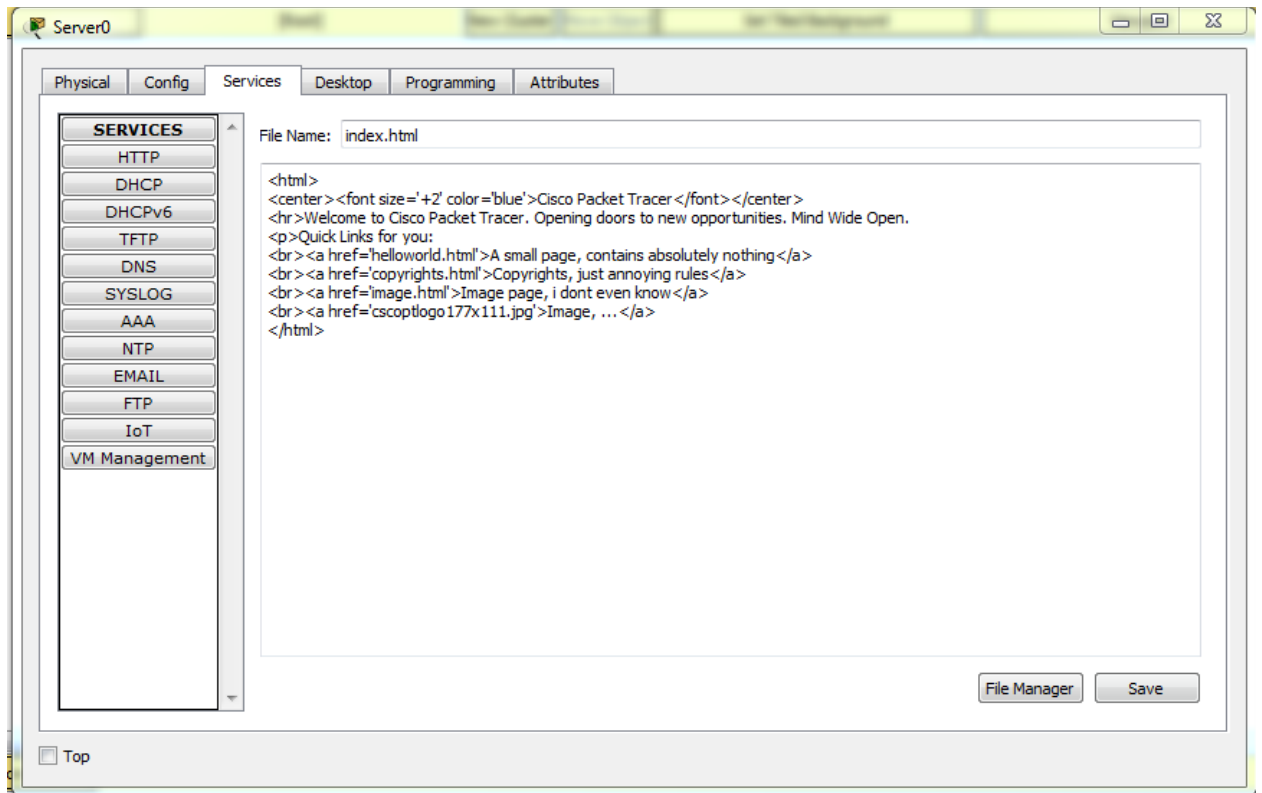
IPv6 Gateway

IPv6 DNS Server

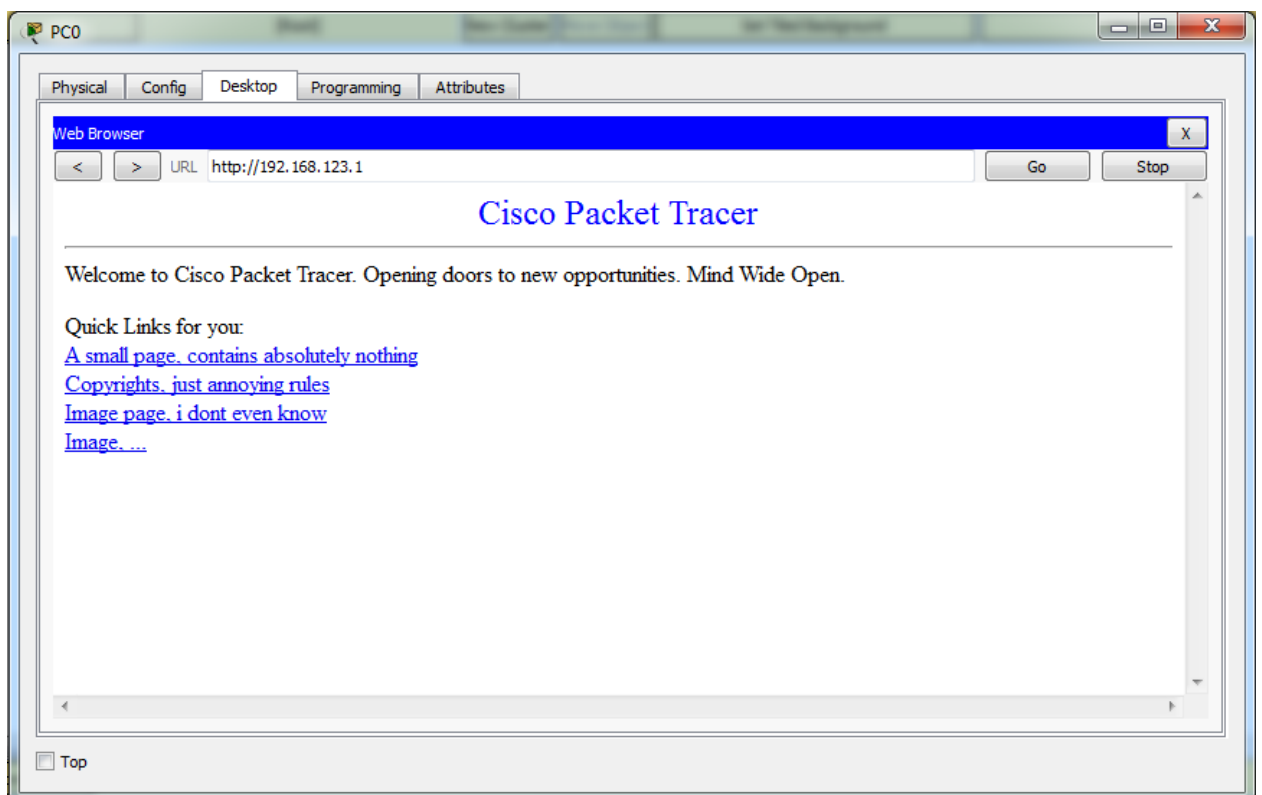
☐ Top

- b. Mengkonfigurasi service HTTP menjadi ON, dan mengubah sedikit tampilan awal pada WEB server.



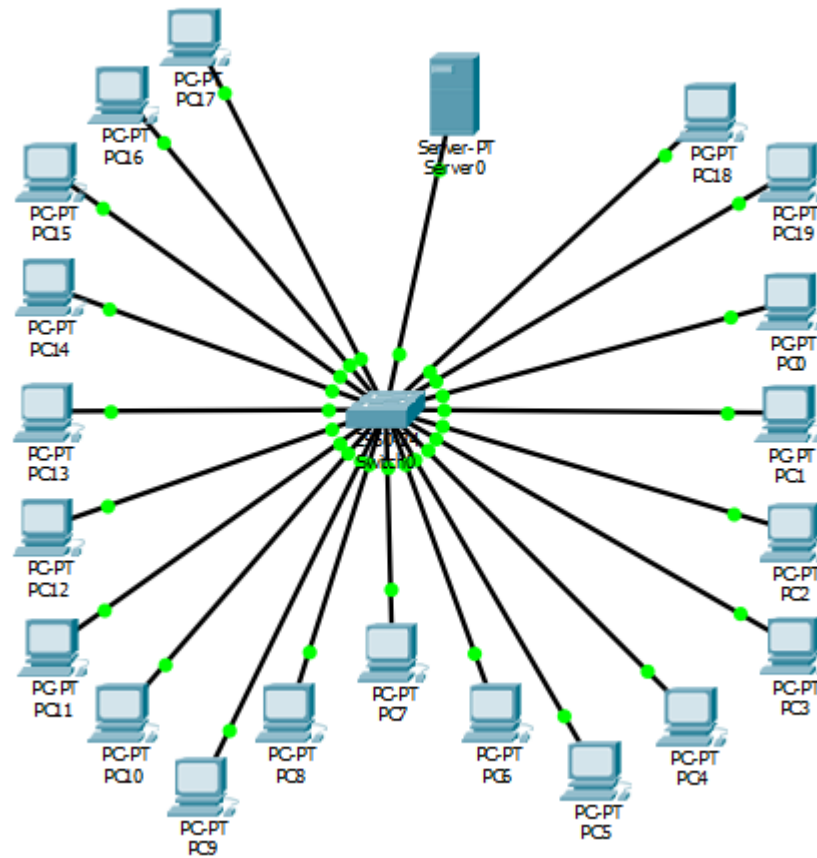


c. Melakukan browsing pada PC dengan mengetikkan IP Server.



E. TUGAS

1. Buatlah DHCP server dengan packet tracer dengan client terdiri dari 20 PC!



Server0

Physical Config Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00E0.F7DE.B9C7

IP Configuration

☐ DHCP

☒ Static

IP Address 198.168.123.1

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address: FE80::2E0:F7FF:FEDE:B9C7

☐ 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 0.0.0.0

DNS Server 0.0.0.0

Start IP Address : 198 168 123 10

Subnet Mask: 255 255 255 0

Maximum Number of Users : 20

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	198.168.123...	255.255.255.0	20	0.0.0.0	0.0.0.0

☐ Top

PC0

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IP Address 198.168.123.10

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:B0FF:FEBC:7589

IPv6 Gateway

IPv6 DNS Server

Top

PC19

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IP Address 198.168.123.29

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::209:7CFF:FED8:5E58

IPv6 Gateway

IPv6 DNS Server

Top

2. Buatlah web server pada packet tracer. Dengan mengubah tampilan pada web tersebut. Dengan isi.
- Nama
 - NIM
 - Alamat
 - Jurusan
 - Jenis
 - Jenis Kelamin

