

Nama : Dzulfiqar Adi

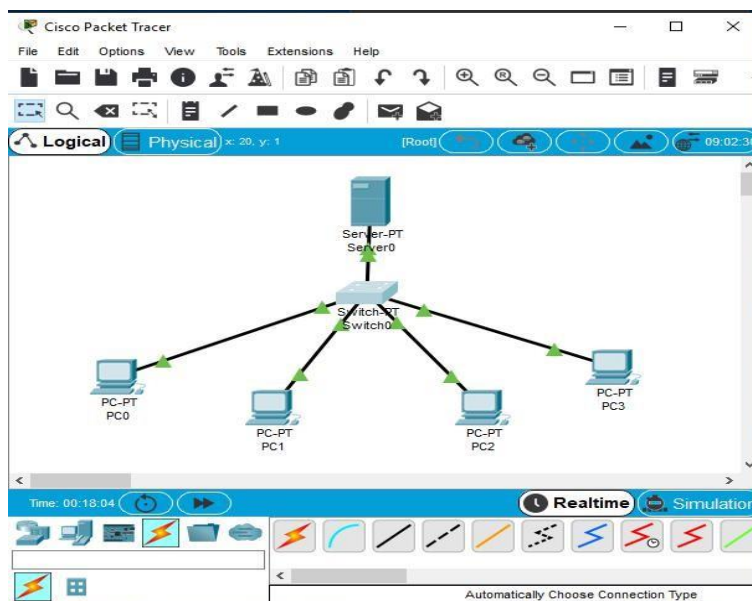
NIM : L200180167

Kelas : D

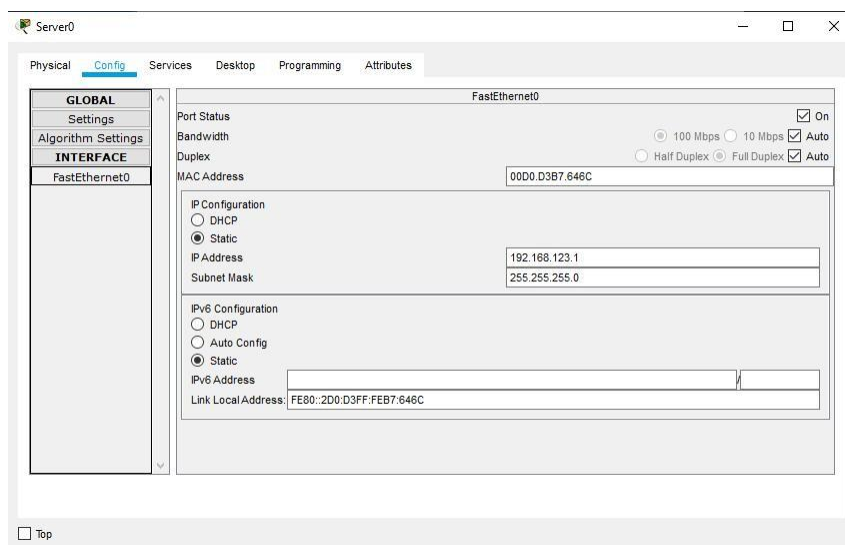
## Kegiatan Praktikum

### 1. PRAKTIKUM 1 MEMBUAT DHCP SERVER

#### Rancangan DHCP Server



- a. Klik Server0, pilih Fast-Ethernet, pada bagian IP Configuration isikan IP address server.



- b. Pada properti Server0 pada services, pilih DHCP. Pastikan DHCP On.

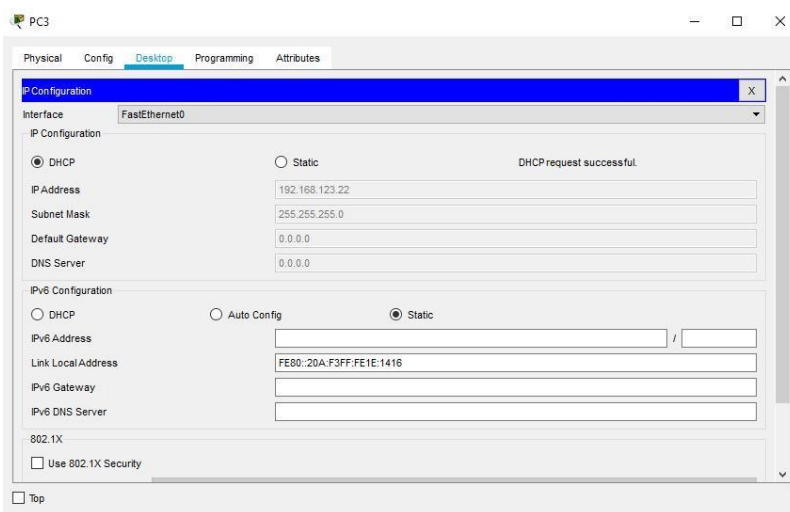
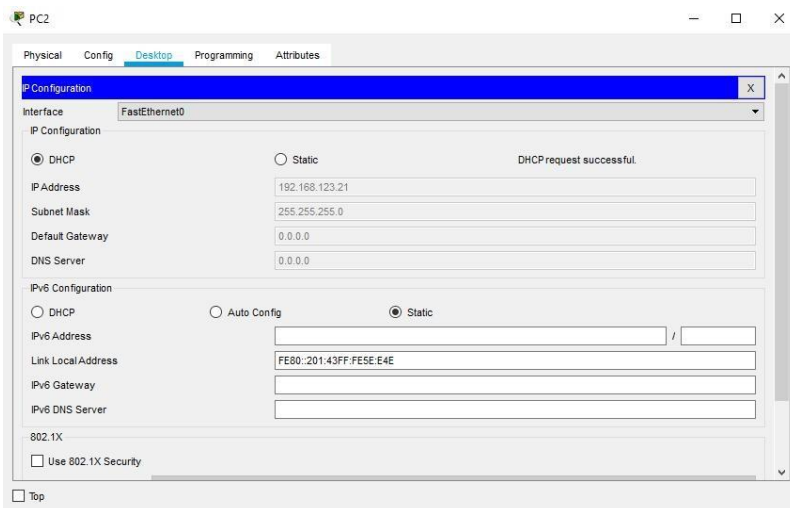
The screenshot shows the configuration window for Server0, specifically the Services tab. The DHCP service is selected and configured. The interface is FastEthernet0, and the service is turned On. The pool name is serverPool. The default gateway is 0.0.0.0, and the DNS server is 0.0.0.0. The start IP address is 192.168.123.19, and the subnet mask is 255.255.255.0. The maximum number of users is 5. The TFTP server and WLC address are both 0.0.0.0. A table at the bottom lists the 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	192.168.123.19	255.255.255.0	5	0.0.0.0	0.0.0.0

- c. Konfigurasi pada DHCP di setiap PC.

The screenshot shows the configuration window for PC0, specifically the Desktop tab. The IP Configuration section is selected. The interface is FastEthernet0. The IP configuration is set to DHCP. The IP address is 192.168.123.19, the subnet mask is 255.255.255.0, the default gateway is 0.0.0.0, and the DNS server is 0.0.0.0. The IPv6 configuration is set to Static, with the IPv6 address FE80::2E0:F9FF:FEAA:D10D and the link local address FE80::2E0:F9FF:FEAA:D10D. The 802.1X security is not enabled.

The screenshot shows the configuration window for PC1, specifically the Desktop tab. The IP Configuration section is selected. The interface is FastEthernet0. The IP configuration is set to DHCP. The IP address is 192.168.123.20, the subnet mask is 255.255.255.0, the default gateway is 0.0.0.0, and the DNS server is 0.0.0.0. The IPv6 configuration is set to Static, with the IPv6 address FE80::201:43FF:FE49:C229 and the link local address FE80::201:43FF:FE49:C229. The 802.1X security is not enabled.



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

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)
	Successful	PC0	PC2	ICMP		0.000	N	1	(edit)
	Successful	PC0	PC3	ICMP		0.000	N	2	(edit)

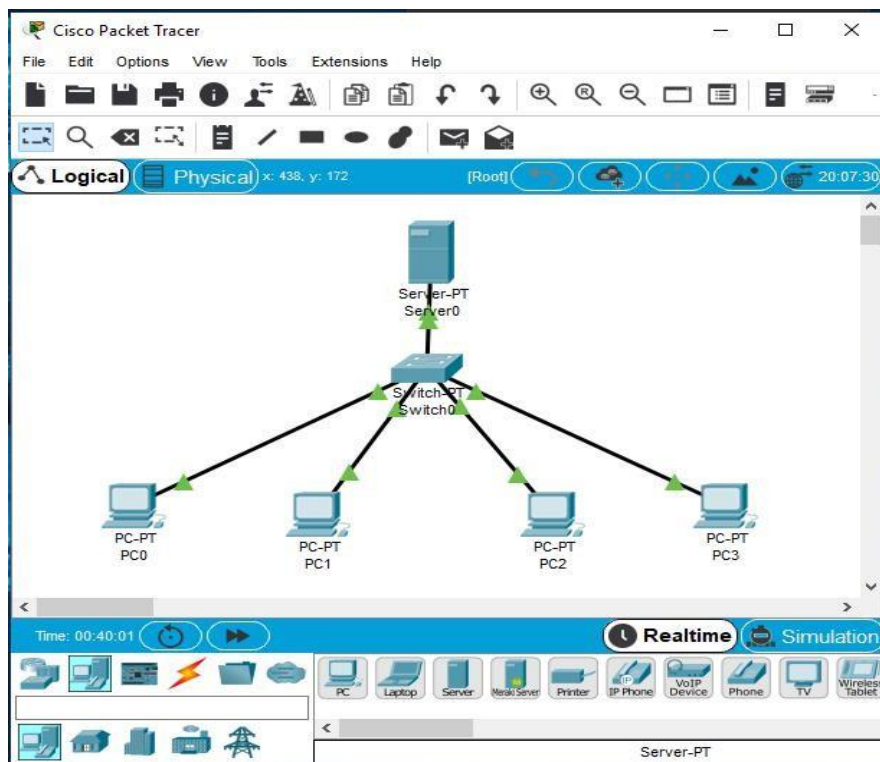
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ec
	Successful	PC1	PC0	ICMP		0.000	N	3	(€
	Successful	PC1	PC2	ICMP		0.000	N	4	(€
	Successful	PC1	PC3	ICMP		0.000	N	5	(€

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ec
	Successful	PC2	PC0	ICMP		0.000	N	6	(€
	Successful	PC2	PC1	ICMP		0.000	N	7	(€
	Successful	PC2	PC3	ICMP		0.000	N	8	(€

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ec
	Successful	PC3	PC0	ICMP		0.000	N	9	(€
	Successful	PC3	PC1	ICMP		0.000	N	10	(€
	Successful	PC3	PC2	ICMP		0.000	N	11	(€

## 2. PRAKTIKUM 2 MEMBUAT WEB SERVER

Rancangan server HTTP.



- a. Klik Server0, pilih Fast-Ethernet, pada bagian IP Configuration isikan IP address server.

The screenshot shows the configuration window for 'Server0' in Cisco Packet Tracer. The 'Config' tab is selected, and the 'FastEthernet0' interface is chosen from the left sidebar. The configuration details for 'FastEthernet0' are as follows:

FastEthernet0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00D0.D3B7.646C
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.123.2
Subnet Mask	255.255.255.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::2D0:D3FF:FE87:646C

- b. Pada properti Server0 pada services, pilih DHCP. Pastikan DHCP On.

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'DHCP' service is enabled (On). The configuration details are as follows:

- Interface: FastEthernet0
- Service: ☒ On
- 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: 5
- TFTP Server: 0.0.0.0
- WLC Address: 0.0.0.0

Below the configuration fields is a table showing the 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	192.168.123.3	255.255.255.0	5	0.0.0.0	0.0.0.0

- c. Konfigurasi pada DHCP di setiap PC.

The screenshot shows the 'PC0' configuration window with the 'Desktop' tab selected. The 'IP Configuration' window is open, showing the following settings:

- Interface: FastEthernet0
- IP Configuration: ☒ DHCP
- Static: ☐ Static
- IP Address: 192.168.123.3
- Subnet Mask: 255.255.255.0
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0

The IPv6 Configuration section shows:

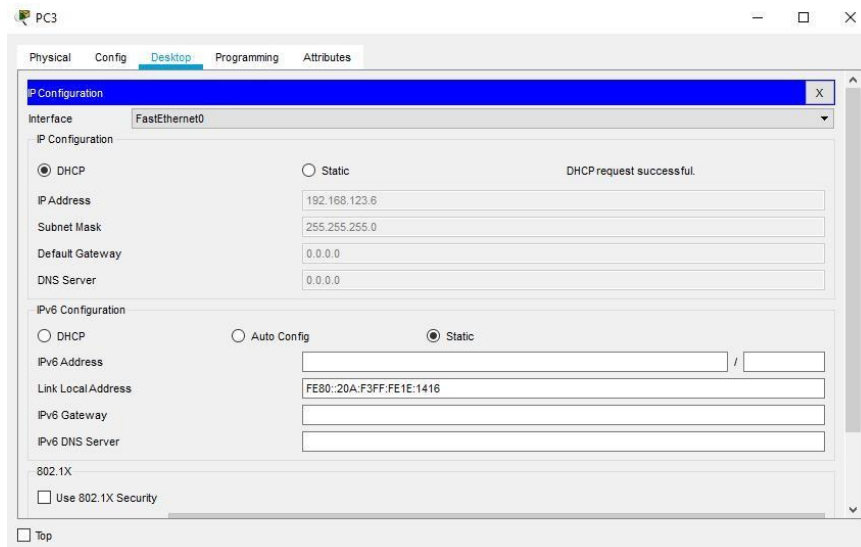
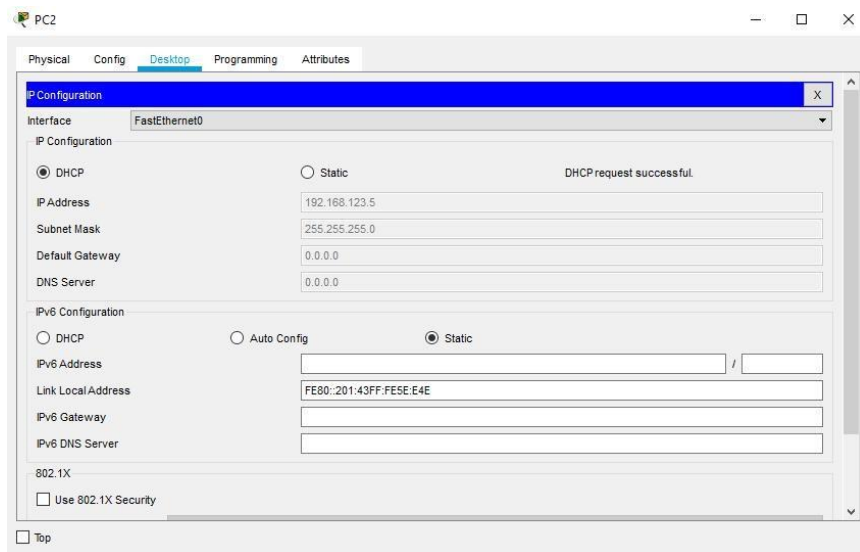
- IPv6 Configuration: ☐ DHCP, ☐ Auto Config, ☒ Static
- IPv6 Address: [Empty]
- Link Local Address: FE80::2E0:F9FF:FEAA:D10D
- IPv6 Gateway: [Empty]
- IPv6 DNS Server: [Empty]

The screenshot shows the 'PC1' configuration window with the 'Desktop' tab selected. The 'IP Configuration' window is open, showing the following settings:

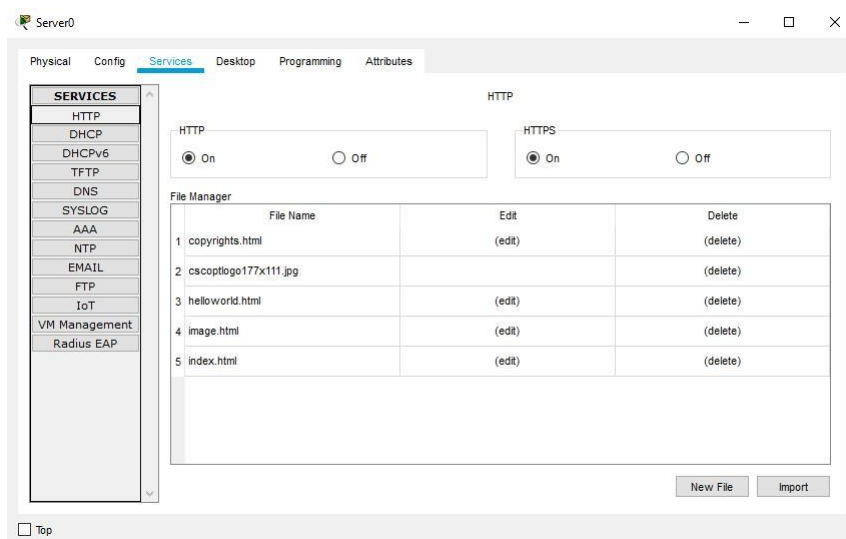
- Interface: FastEthernet0
- IP Configuration: ☒ DHCP
- Static: ☐ Static
- IP Address: 192.168.123.4
- Subnet Mask: 255.255.255.0
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0

The IPv6 Configuration section shows:

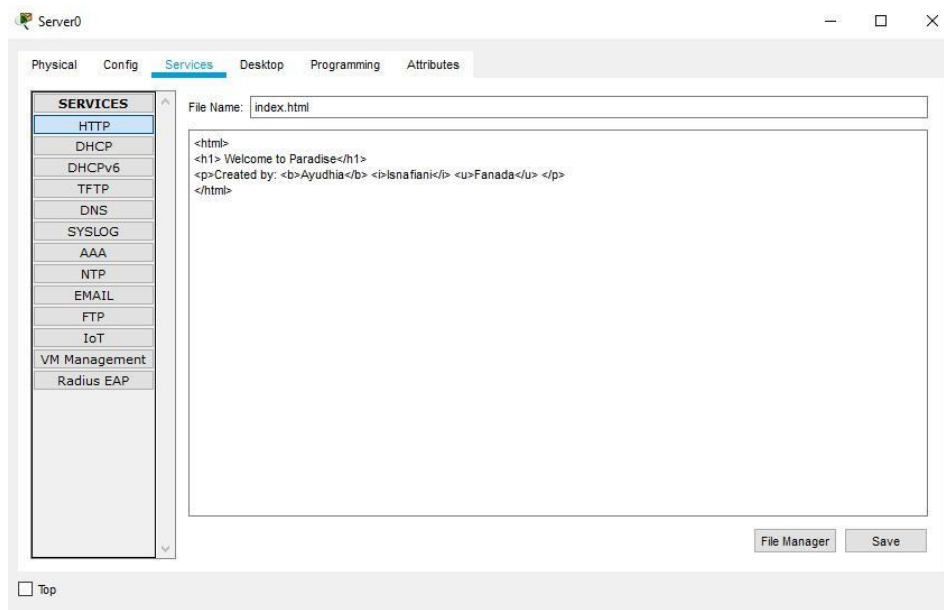
- IPv6 Configuration: ☐ DHCP, ☐ Auto Config, ☒ Static
- IPv6 Address: [Empty]
- Link Local Address: FE80::201:43FF:FE49:C229
- IPv6 Gateway: [Empty]
- IPv6 DNS Server: [Empty]



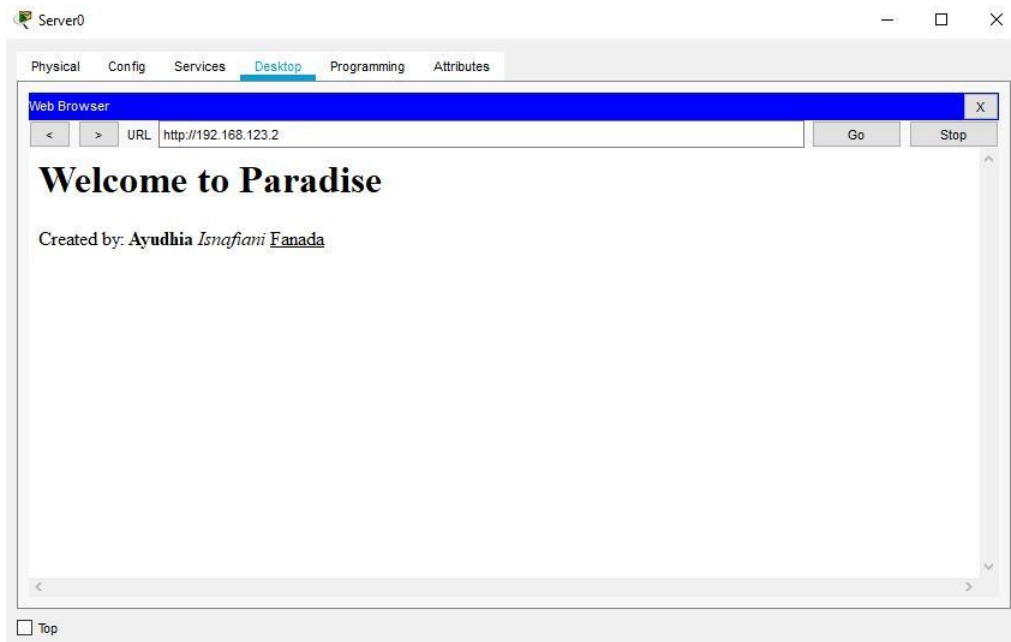
d. Klik Server0 pada bagian Service pilih HTTP dan klik On.



e. Edit pada index.html



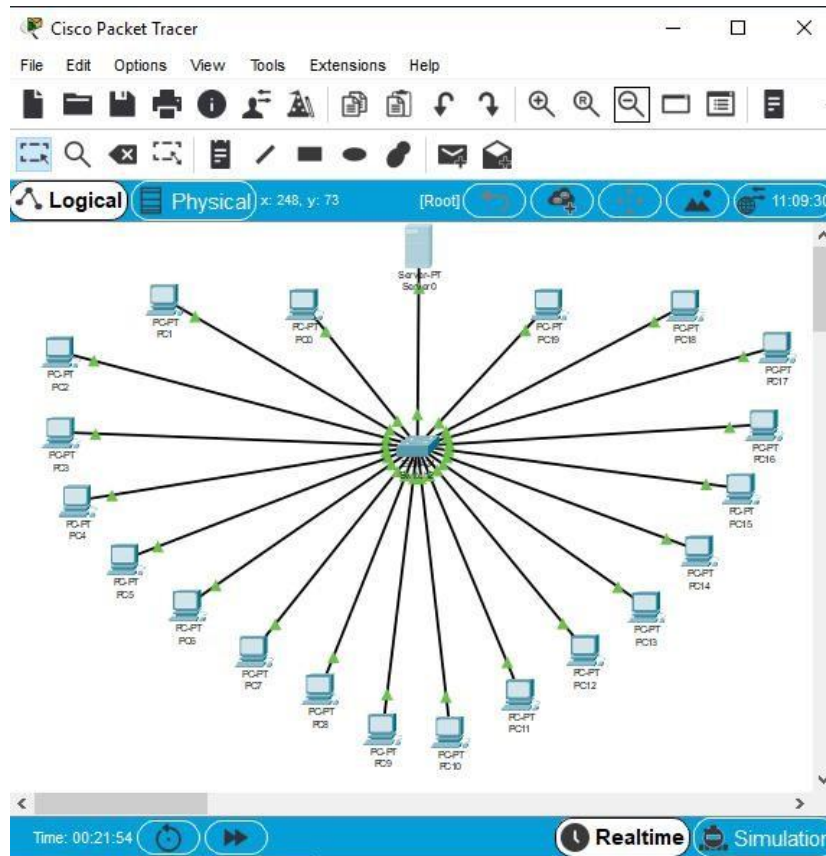
f. Klik PC0 pilih Web Browser dan ketikkan IP Address. Maka akan dihasilkan tampilan halaman web pada Server0 di Web Browser.



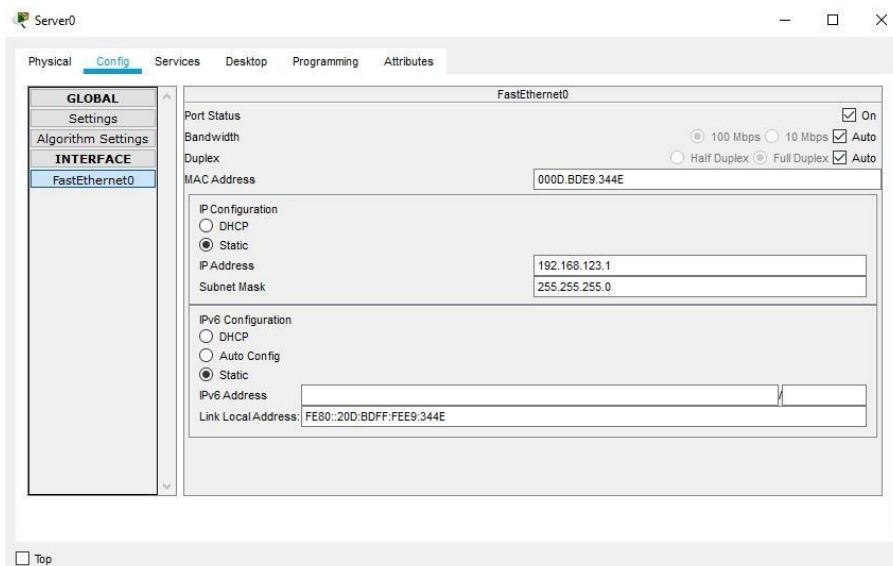
## Tugas

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

### Rancangan Server



Klik Server0, pilih Fast-Ethernet, pada bagian IP Configuration isikan IP address server.





Pada propertis Server0 pada services, pilih DHCP. Pastikan DHCP On.

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. On the left, a list of services includes DHCP, which is highlighted. The main area shows the DHCP configuration for the 'FastEthernet0' interface. The 'Service' is set to 'On'. Below this, fields for 'Pool Name' (serverPool), 'Default Gateway' (0.0.0.0), and 'DNS Server' (0.0.0.0) are visible. The 'Start IP Address' is 192.168.123.123, and the 'Subnet Mask' is 255.255.255.0. The 'Maximum Number of Users' is 64. At the bottom, a table lists the 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	192.168.123.123	255.255.255.0	64	0.0.0.0	0.0.0.0

Konfigurasi pada DHCP di setiap PC mulai dari PC0 hingga PC19.

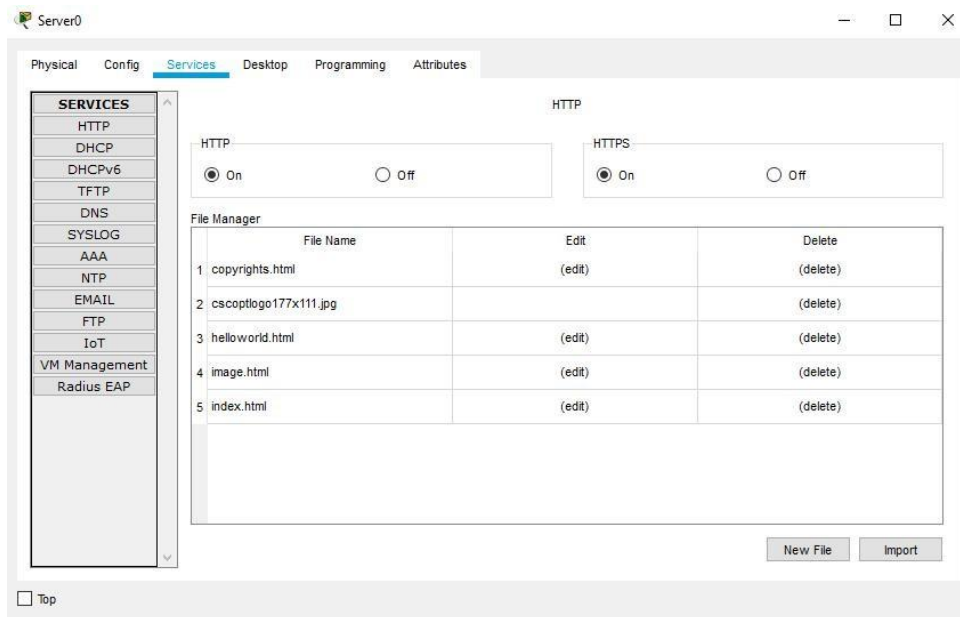
The screenshot shows the 'PC0' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing the 'FastEthernet0' interface. The 'IP Configuration' is set to 'DHCP'. The 'IP Address' is 192.168.123.192, and the 'Subnet Mask' is 255.255.255.0. The 'Default Gateway' is 0.0.0.0, and the 'DNS Server' is 0.0.0.0. The 'IPv6 Configuration' section is also visible, with 'Static' selected.

The screenshot shows the 'PC19' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing the 'FastEthernet0' interface. The 'IP Configuration' is set to 'DHCP'. The 'IP Address' is 192.168.123.211, and the 'Subnet Mask' is 255.255.255.0. The 'Default Gateway' is 0.0.0.0, and the 'DNS Server' is 0.0.0.0. The 'IPv6 Configuration' section is also visible, with 'Static' selected.

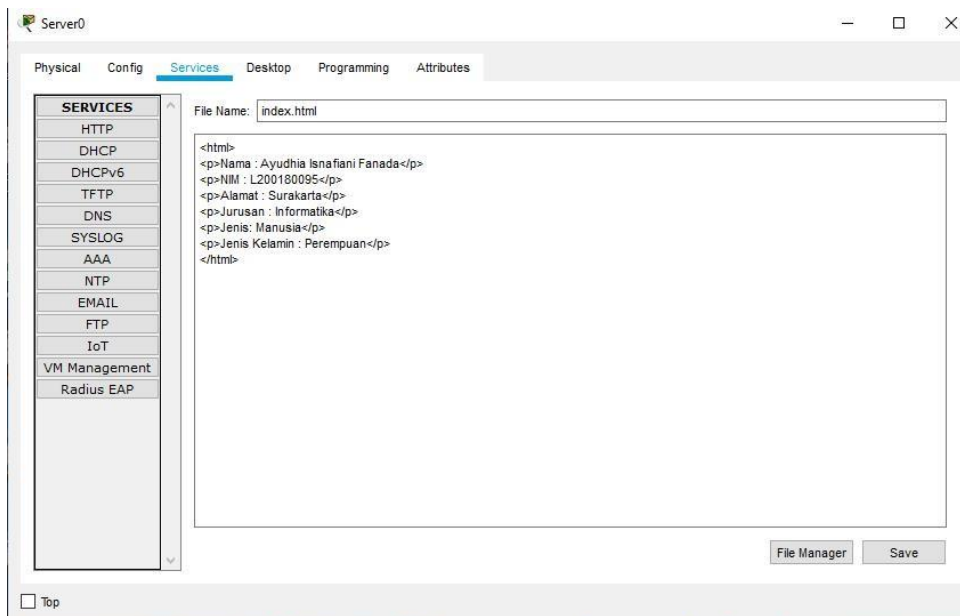
2. Buatlah web server pada packet tracer. Dengan mengubah tampilan pada web tersebut. Dengan isi

- a. Nama
- b. Nim
- c. Alamat
- d. Jurusan
- e. Jenis
- f. Jenis Kelamin

Klik Server0 pada bagian Service pilih HTTP dan klik On.



Edit pada index.html



Klik PC0 pilih Web Browser dan ketikkan IP Address. Maka akan dihasilkan tampilan halaman web pada Server0 di Web Browser.

