

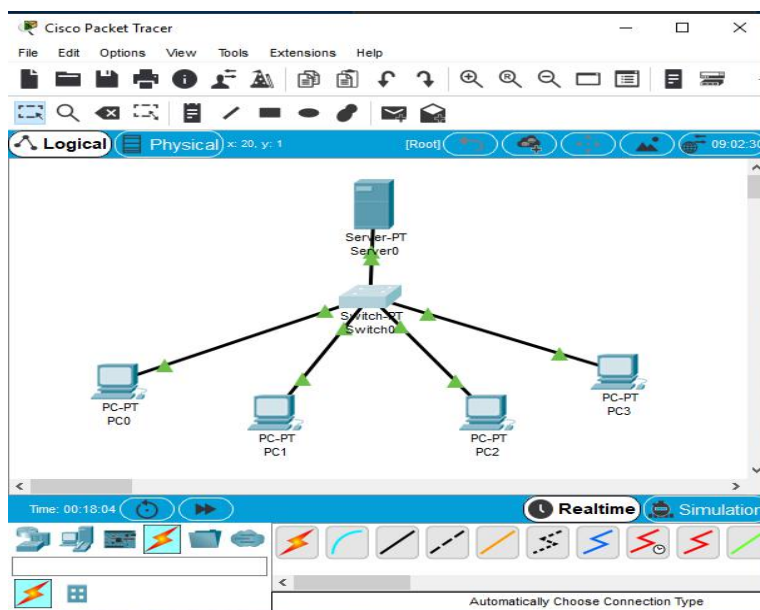
Nama : Ayudhia Isnafiani Fanada
NIM : L200180095
Kelas : C

PRAKTIKUM JARINGAN KOMPUTER MODUL 5

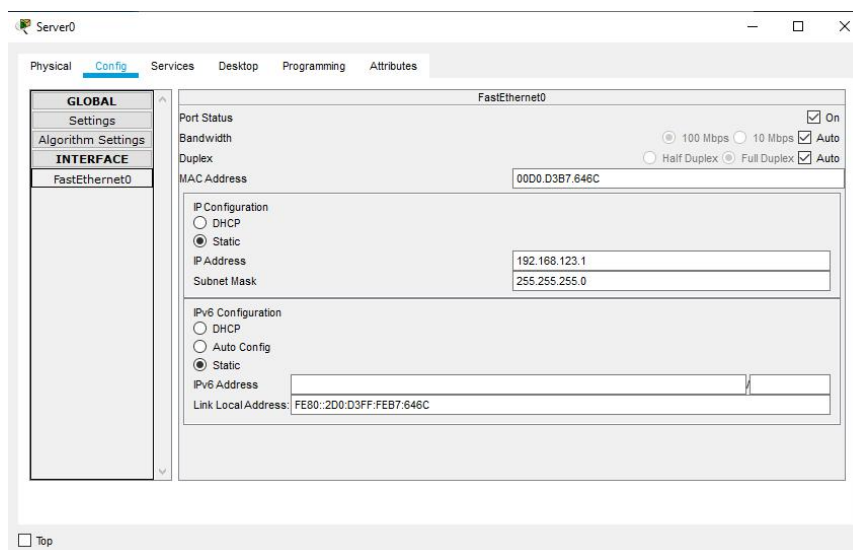
Kegiatan Praktikum

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.

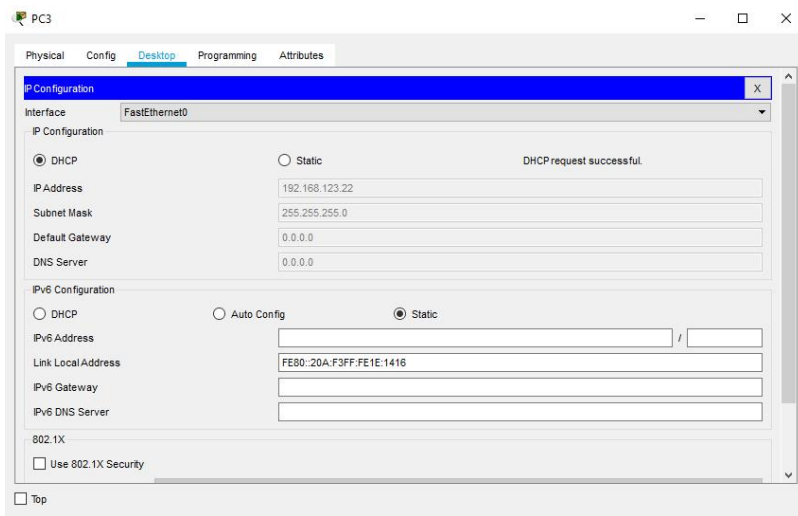
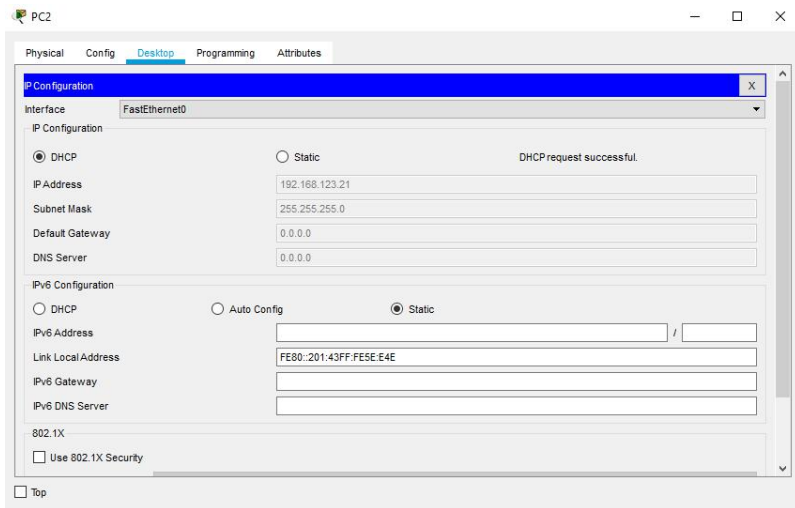
The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'DHCP' service is enabled (On). The interface is 'FastEthernet0'. The pool name is 'serverPool'. The default gateway is '0.0.0.0'. The DNS server is '0.0.0.0'. The start IP address is '192.168.123.19' and the subnet mask is '255.255.255.0'. The maximum number of users is '5'. The TFTP server is '0.0.0.0' and the WLC address is '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 'PC0' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded. The interface is 'FastEthernet0'. The 'DHCP' option is selected. The IP address is '192.168.123.19' 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 expanded, showing 'Static' configuration with a link local address of 'FE80::2E0:F9FF:FEAA:D10D'.

The screenshot shows the 'PC1' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded. The interface is 'FastEthernet0'. The 'DHCP' option is selected. The IP address is '192.168.123.20' 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 expanded, showing 'Static' configuration with a link local address of 'FE80::201:43FF:FE49:C229'.



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)

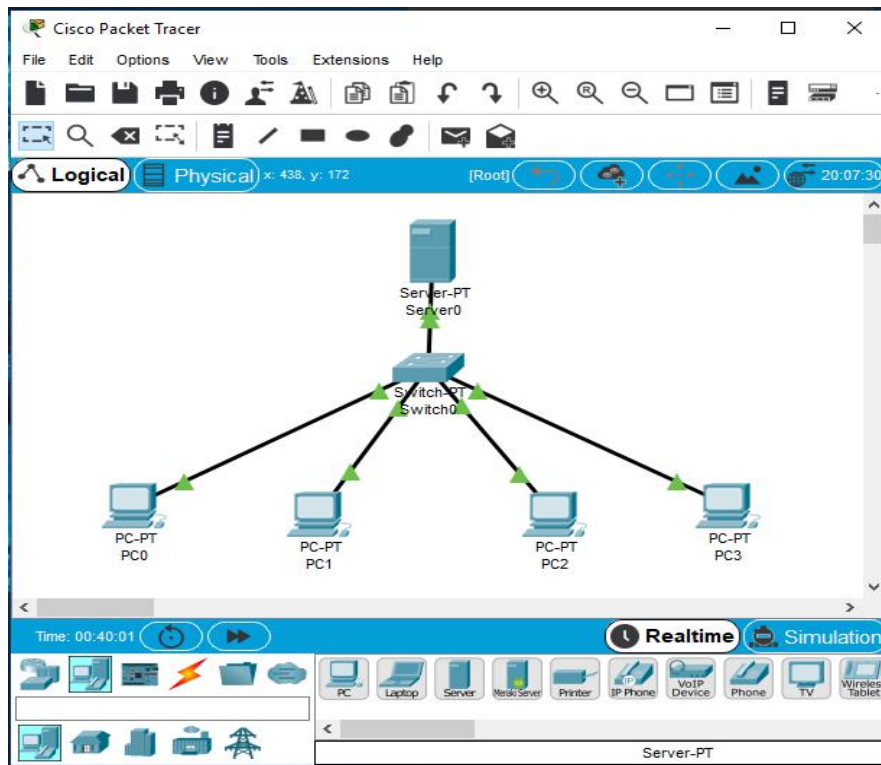
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ec
	Successful	PC1	PC0	ICMP		0.000	N	3	(€
	Successful	PC1	PC2	ICMP		0.000	N	4	(€
	Successful	PC1	PC3	ICMP		0.000	N	5	(€

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 'Config' tab for 'Server0'. The 'FastEthernet0' interface is selected. The 'IP Configuration' section is set to 'Static'. The IP Address is '192.168.123.2' and the Subnet Mask is '255.255.255.0'. The 'Link Local Address' is 'FE80::2D0:D3FF:FE87:646C'. The 'Port Status' is 'On', 'Bandwidth' is '100 Mbps', and 'Duplex' is 'Full Duplex'.

Section	Field	Value
IP Configuration	Static	<input checked="" type="radio"/>
	IP Address	192.168.123.2
	Subnet Mask	255.255.255.0
IPv6 Configuration	Static	<input checked="" type="radio"/>
	IPv6 Address	
	Link Local Address	FE80::2D0:D3FF:FE87:646C

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

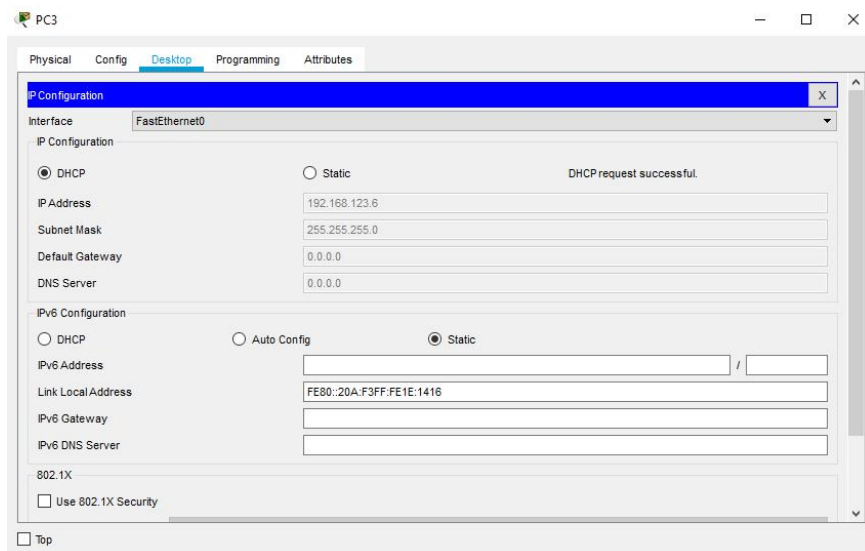
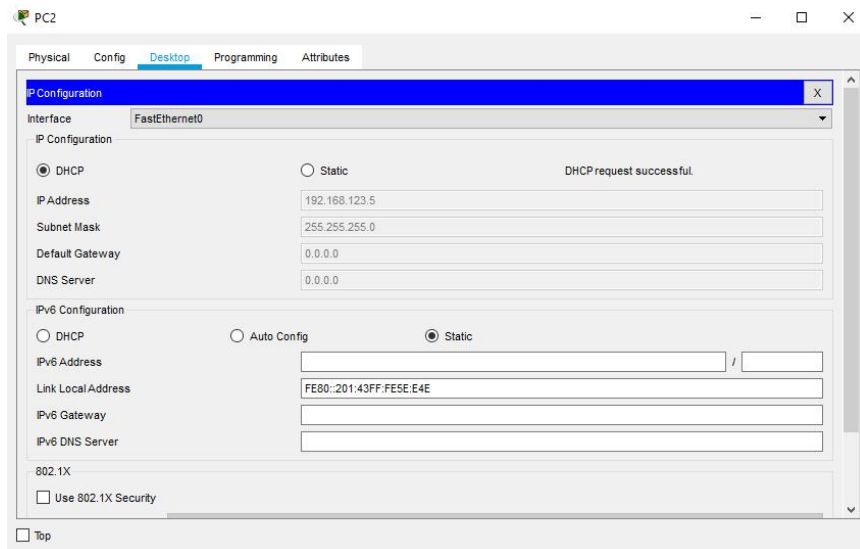
The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'DHCP' service is highlighted in the left sidebar. The main area shows the DHCP configuration for the 'FastEthernet0' interface. The 'Service' is set to 'On'. The 'Pool Name' is 'serverPool'. The 'Default Gateway' is '0.0.0.0'. The 'DNS Server' is '0.0.0.0'. The 'Start IP Address' is '192.168.123.3' and the 'Subnet Mask' is '255.255.255.0'. The 'Maximum Number of Users' is '5'. The 'TFTP Server' is '0.0.0.0' and the 'WLC Address' is '0.0.0.0'. Below the configuration fields is a table showing the DHCP pool details.

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

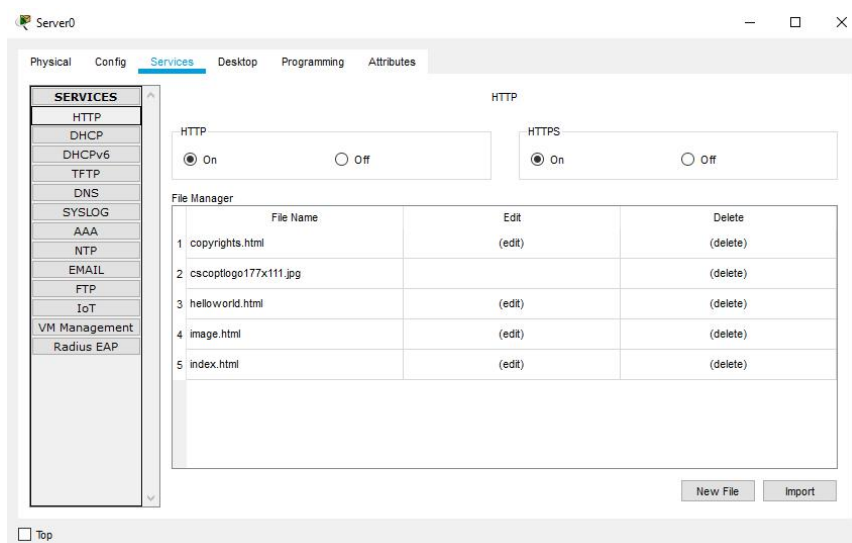
c. Konfigurasi pada DHCP di setiap PC.

The screenshot shows the 'PC0' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is open. The 'Interface' is 'FastEthernet0'. The 'IP Configuration' is set to 'DHCP'. The 'IP Address' is '192.168.123.3' 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' is set to 'Static' with the 'IPv6 Address' 'FE80::2E0:F9FF:FEAA:D10D'. The 'Link Local Address' is 'FE80::2E0:F9FF:FEAA:D10D'. The 'IPv6 Gateway' and 'IPv6 DNS Server' are empty. The '802.1X' section is unchecked.

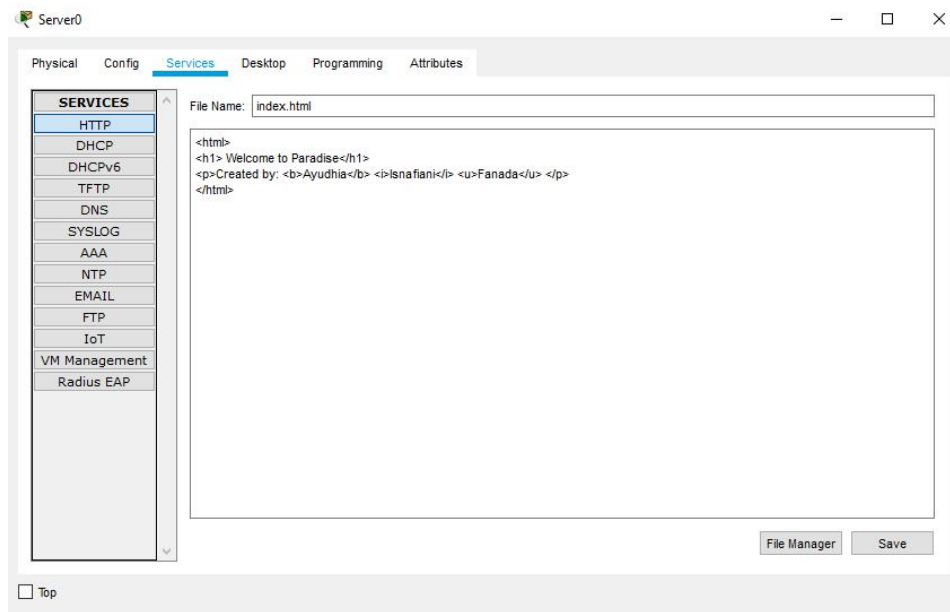
The screenshot shows the 'PC1' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is open. The 'Interface' is 'FastEthernet0'. The 'IP Configuration' is set to 'DHCP'. The 'IP Address' is '192.168.123.4' and the 'Subnet Mask' is '255.255.255.0'. The 'Default Gateway' is '0.0.0.0' and the 'DNS Server' is '0.0.0.0'. The 'IPv6 Configuration' is set to 'Static' with the 'IPv6 Address' 'FE80::201:43FF:FE49:C229'. The 'Link Local Address' is 'FE80::201:43FF:FE49:C229'. The 'IPv6 Gateway' and 'IPv6 DNS Server' are empty. The '802.1X' section is unchecked.



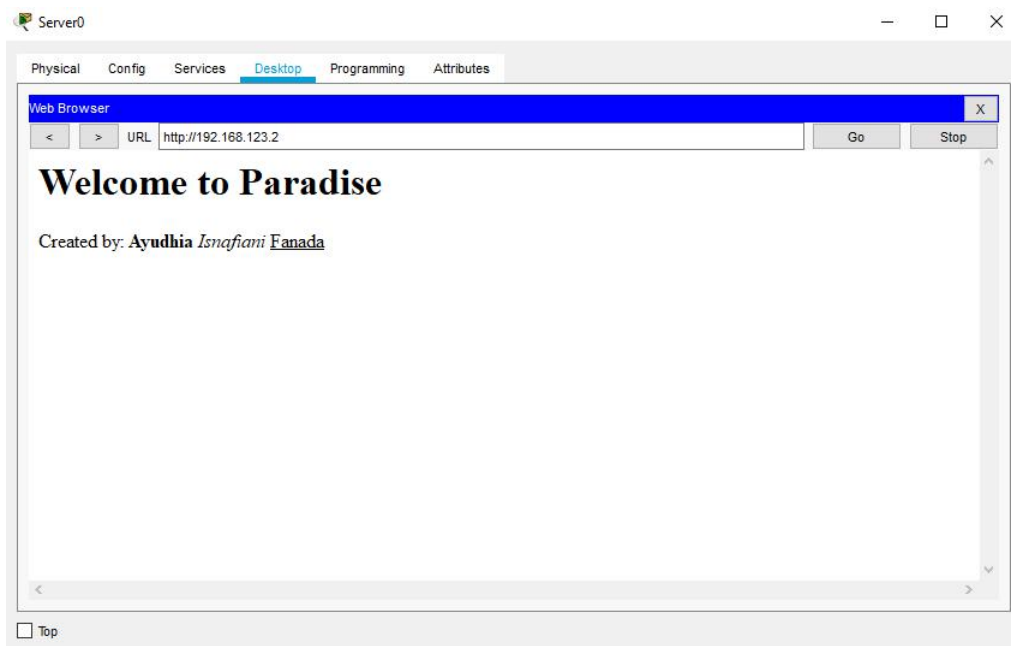
d. Klik Server0 pada bagian Service pilih HTTP dan klik On.



e. Edit pada index.html



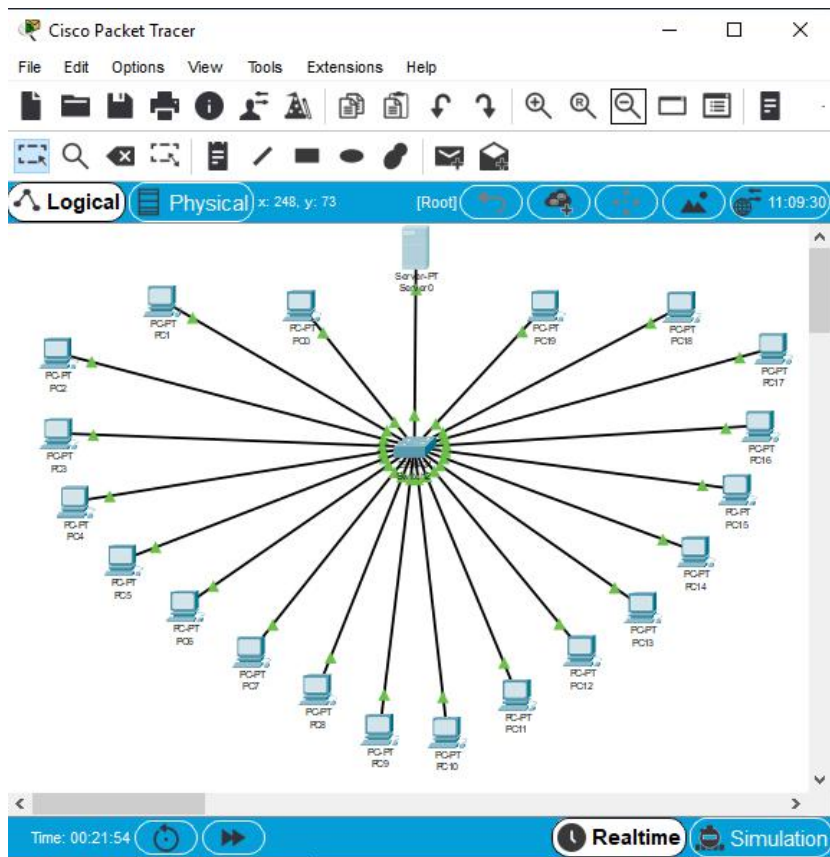
f. Klik PC0 pilih Web Browser dan ketikkan IP Address. Maka akan dihasilkan tampilan halaman web pada Server0 di Web Browser.



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.

The screenshot shows the configuration window for Server0, specifically the 'FastEthernet0' interface. The 'IP Configuration' section is selected, and the 'Static' option is chosen. The IP Address is set to 192.168.123.1, and the Subnet Mask is set to 255.255.255.0. The 'Link Local Address' is set to FE80::20D:B0FF:FEE9:344E. The 'Port Status' is 'On', and the 'Bandwidth' is set to 'Auto'. The 'Duplex' is set to 'Full Duplex', and the 'MAC Address' is 000D.BDE9.344E.

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

Server0

Physical Config **Services** Desktop Programming Attributes

SERVICES

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

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address: 192 168 123 192

Subnet Mask: 255 255 255 0

Maximum Number of Users: 64

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	192.168.123.192	255.255.255.0	64	0.0.0.0	0.0.0.0

< >

☐ Top

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

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IP Address: 192.168.123.192

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::290:21FF:FE97:B232

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

PC19

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.123.211

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:FEEB:381A

IPv6 Gateway:

IPv6 DNS Server:

802.1X

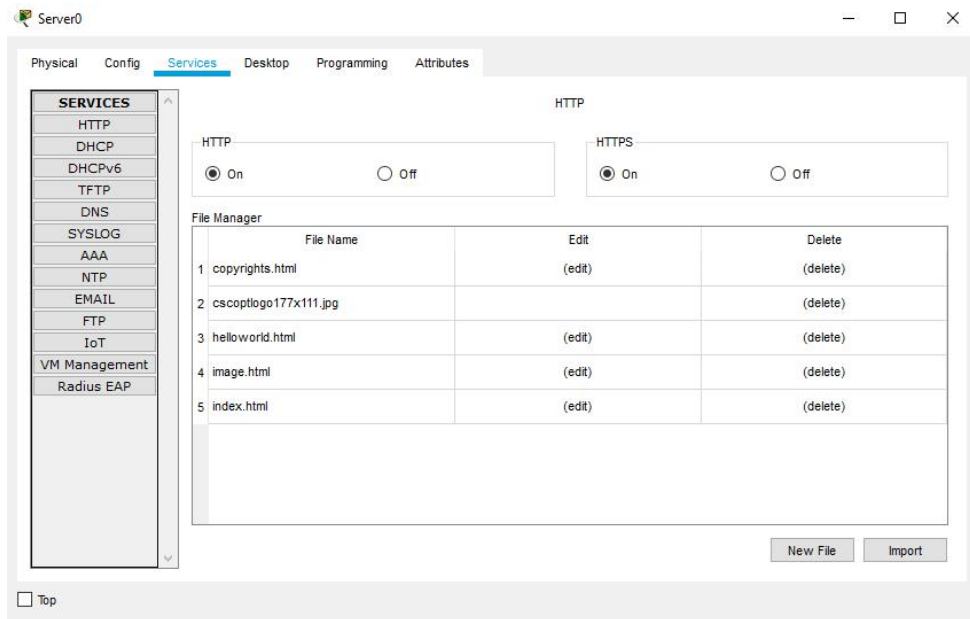
☐ Use 802.1X Security

☐ Top

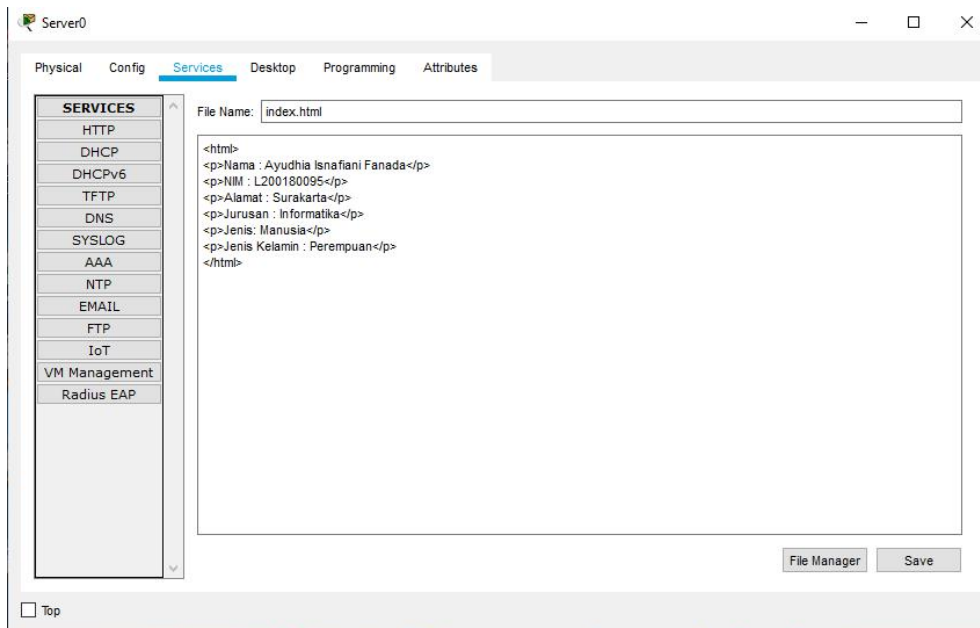
2. Buatlah web server pada packet tracer. Dengan mengubah tampilan pada web tersebut. Dengan isi

- 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.

