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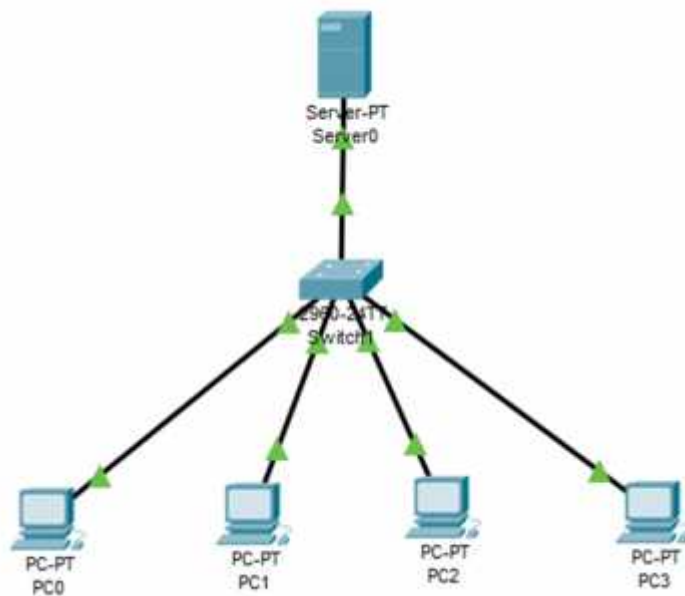
MODUL 5

DHCP SERVER DAN WEB SERVER

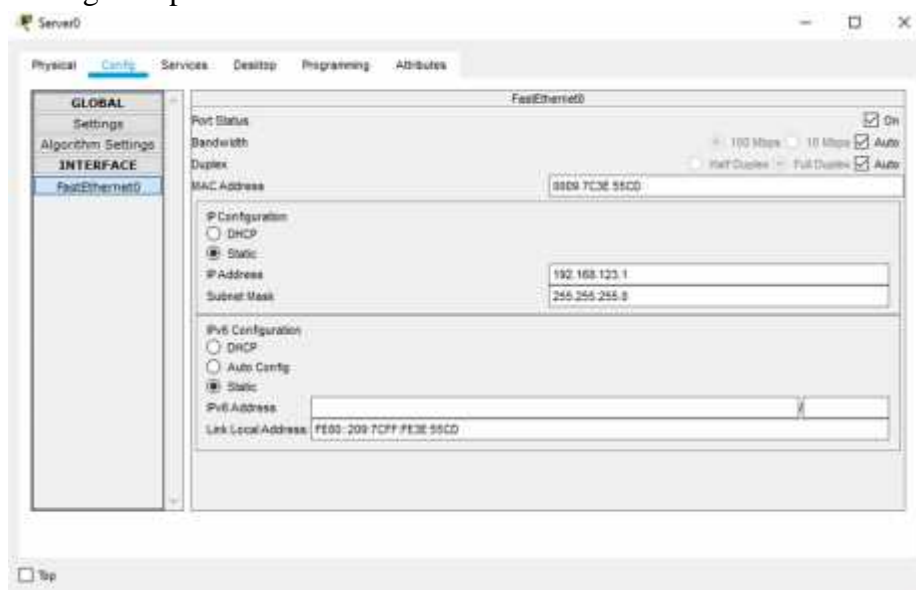
D. Kegiatan Praktikum

1. Praktikum 1 Membuat DHCP Server

Membuat rangkaian DHCP Server



Konfigurasi pada server



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: FastEthernet0/24 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

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	192.168.123.19	255.255.255.0	5	0.0.0.0	0.0.0.0

Top

Konfigurasi IP Address pada masing-masing PC

PC0

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

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: FE80::201:43FF:FE22:2674

Link Local Address: FE80::201:43FF:FE22:2674

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication:

Username:

Password:

Top

PC1

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

IP Address: 192.168.123.22
 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: FE80:230:A3FF:FE7B:C56C
 IPv6 Gateway:
 IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: 802
 Username:
 Password:

☐ Top

PC2

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

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: FE80:203:E4FF:FE3B:1EDA
 IPv6 Gateway:
 IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: 802
 Username:
 Password:

☐ Top

PC3

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

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: FE80:200:F7FF:FE8B:5B3C
 IPv6 Gateway:
 IPv6 DNS Server:

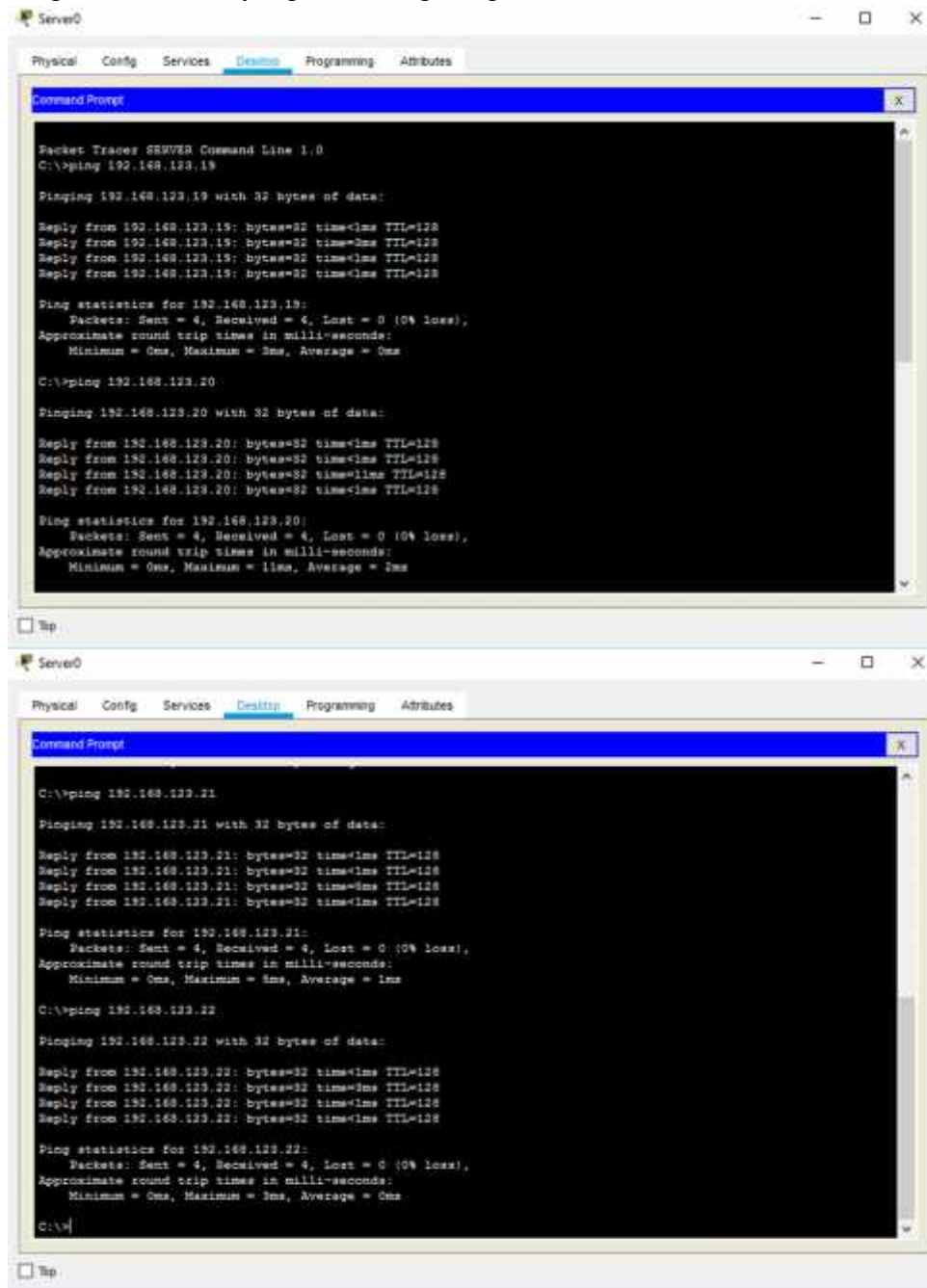
802.1X

☐ Use 802.1X Security

Authentication: 802
 Username:
 Password:

☐ Top

Ping ke semua PC yang terhubung dengan server DHCP.



The image displays two screenshots of the Packet Tracer interface for a device named 'Server0'. The 'Desktop' tab is selected, showing a 'Command Prompt' window. The first screenshot shows successful ping results for IP addresses 192.168.123.19 and 192.168.123.20. The second screenshot shows successful ping results for IP addresses 192.168.123.21 and 192.168.123.22. Each ping command is followed by four replies and a summary of statistics.

```
Packet Tracer SERVER Command Line 1.0
C:\>ping 192.168.123.19

Pinging 192.168.123.19 with 32 bytes of data:

Reply from 192.168.123.19: bytes=32 time<1ms TTL=128
Reply from 192.168.123.19: bytes=32 time<1ms TTL=128
Reply from 192.168.123.19: bytes=32 time<1ms TTL=128
Reply from 192.168.123.19: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.123.19:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.123.20

Pinging 192.168.123.20 with 32 bytes of data:

Reply from 192.168.123.20: bytes=32 time<1ms TTL=128
Reply from 192.168.123.20: bytes=32 time<1ms TTL=128
Reply from 192.168.123.20: bytes=32 time<1ms TTL=128
Reply from 192.168.123.20: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.123.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 1ms

C:\>ping 192.168.123.21

Pinging 192.168.123.21 with 32 bytes of data:

Reply from 192.168.123.21: bytes=32 time<1ms TTL=128
Reply from 192.168.123.21: bytes=32 time<1ms TTL=128
Reply from 192.168.123.21: bytes=32 time<1ms TTL=128
Reply from 192.168.123.21: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.123.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 1ms

C:\>ping 192.168.123.22

Pinging 192.168.123.22 with 32 bytes of data:

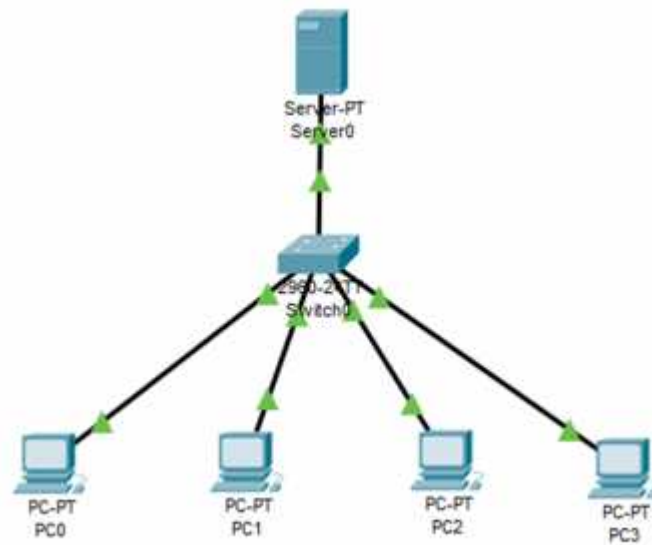
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.123.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

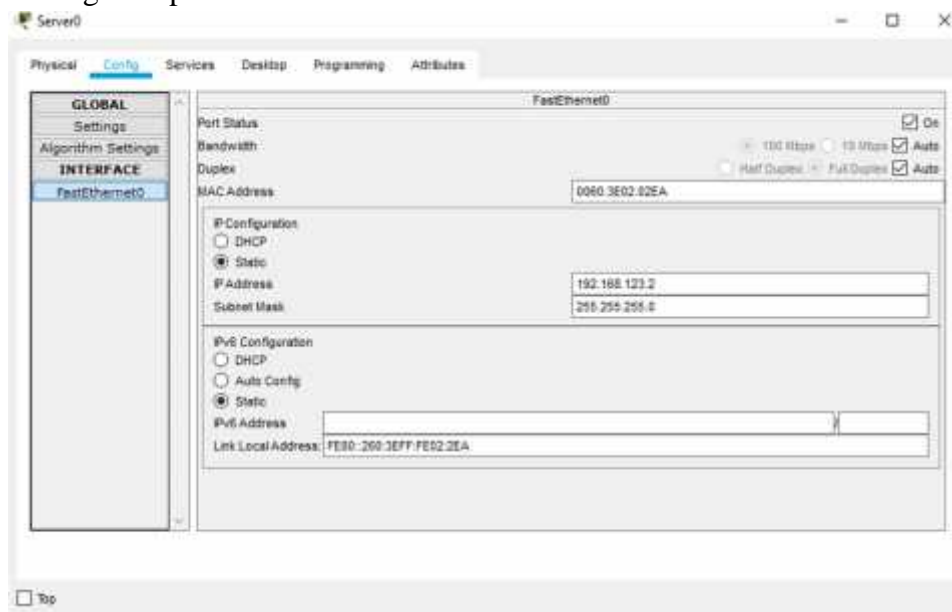
C:\>
```

2. Praktikum 2 Membuat WEB Server

Membuat rancangan DHCP Server



Konfigurasi pada server



Server0

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP**
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- InT
- 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** **19**

Subnet Mask: **255** **255** **255** **0**

Maximum Number of Users: **5**

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	192.168.123.19	255.255.255.0	5	0.0.0.0	0.0.0.0

[Top](#)

Konfigurasi IP Address pada masing-masing PC

PC0

Physical Config **Desktop** Programming Attributes

☒ **DHCP** ☐ Static

IP Address: **192.168.123.30**

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::230:F2FF:FE31:99C2**

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: **802**

Username:

Password:

[Top](#)

PC1

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

IP Address: 192.168.125.22

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: FE80:200:03FF:FE64:31A2

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: 802

Username:

Password:

☐ Top

PC2

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

IP Address: 192.168.125.21

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: FE80:200:FFFF:FE26:C45B

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: 802

Username:

Password:

☐ Top

PC1

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

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::2E0:3FFF:FEAD:B345

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: 802.1X

Username:

Password:

☐ Top

Konfigurasi script HTML pada Server

Server0

Physical Config **Services** Desktop Programming Attributes

SERVICES

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

HTTP

HTTP: ☒ On ☐ Off

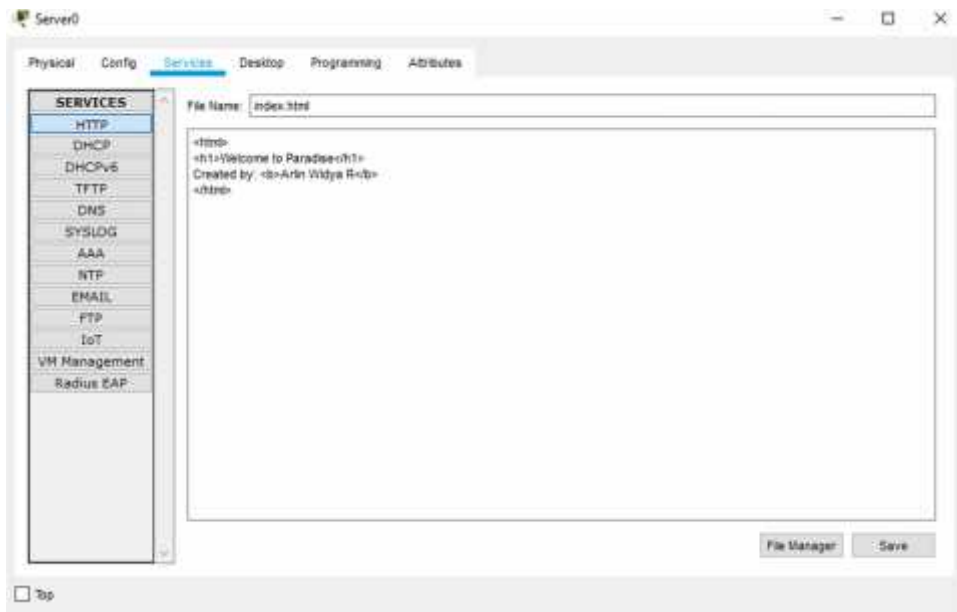
HTTPS: ☒ On ☐ Off

File Manager

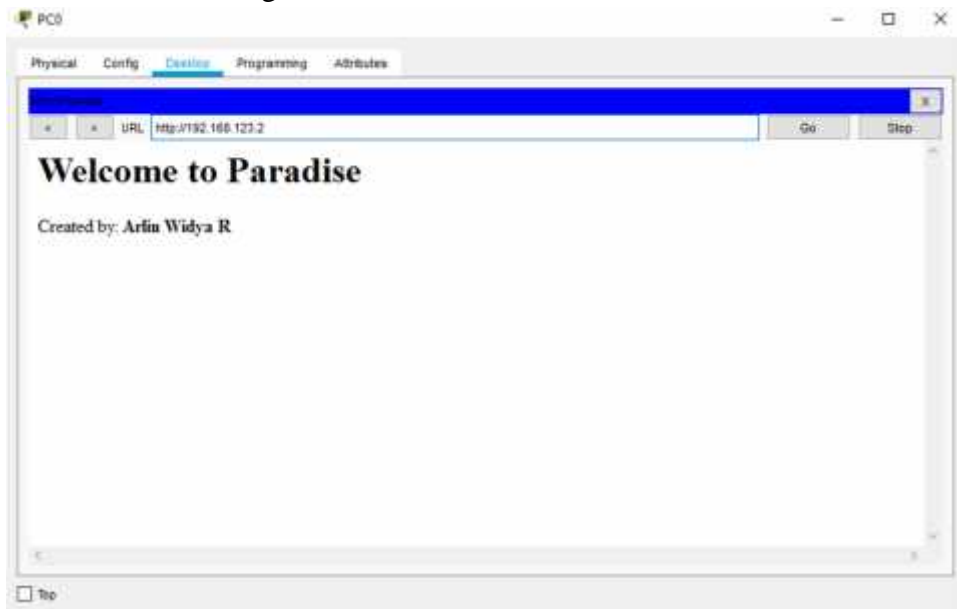
	File Name	Edit	Delete
1	index.html	(edit)	(delete)

New File Import

☐ Top

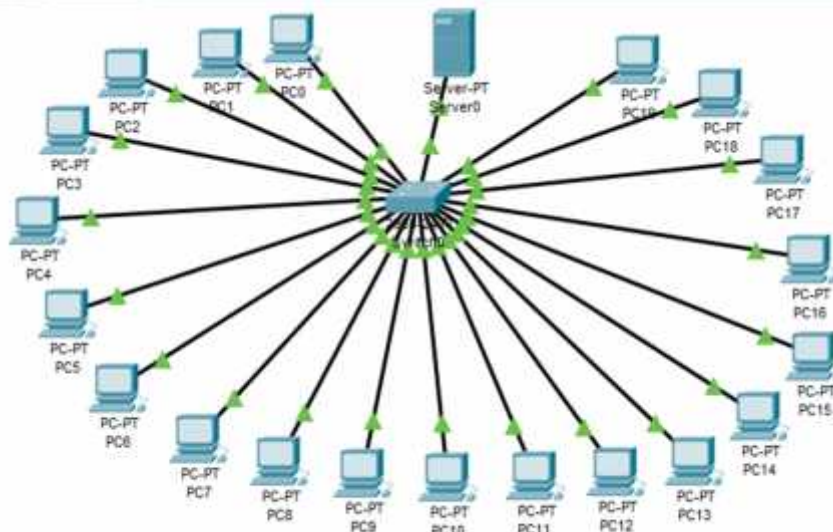


Melakukan browsing HTTP

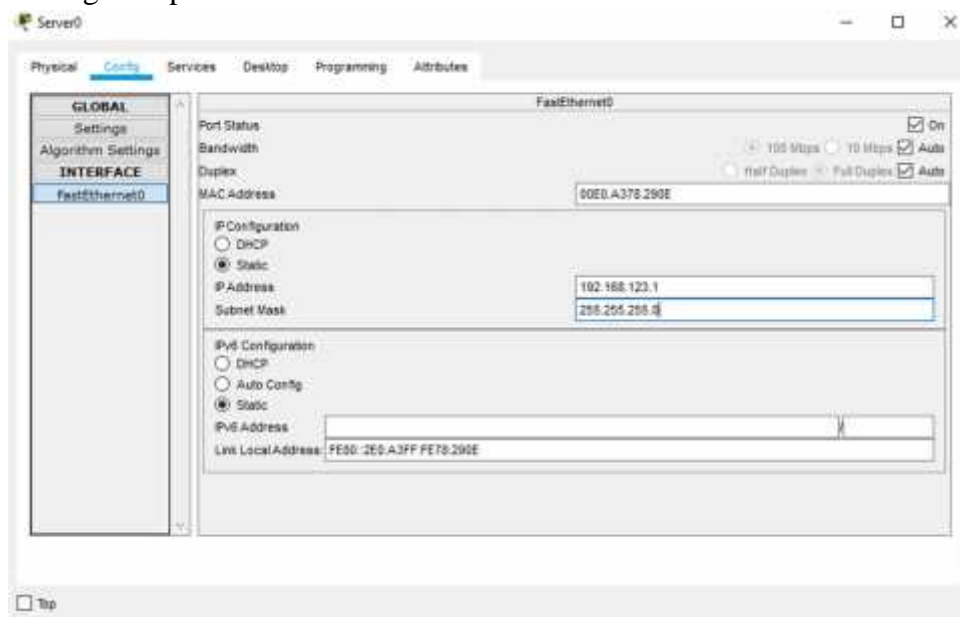


E. Tugas

Membuat rancangan DHCP Server



Konfigurasi pada server



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 19

Subnet Mask: 255 255 255 0

Maximum Number of Users: 21

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	192.168.123.19	255.255.255.0	21	0.0.0.0	0.0.0.0

Top

Konfigurasi IP Address pada masing-masing PC (lakukan pada semua PC dari PC 0 – PC 19)

PC0

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static

IP Address: 192.168.123.34

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::200:97FF:FE00:6D5E

IPv6 Gateway:

IPv6 DNS Server:

802.1X

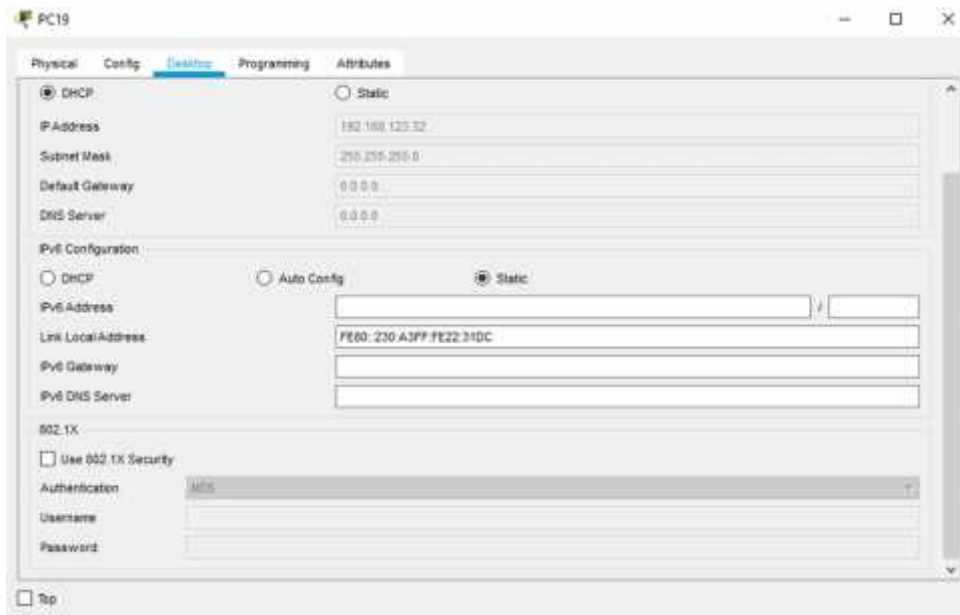
☐ Use 802.1X Security

Authentication: 802.1X

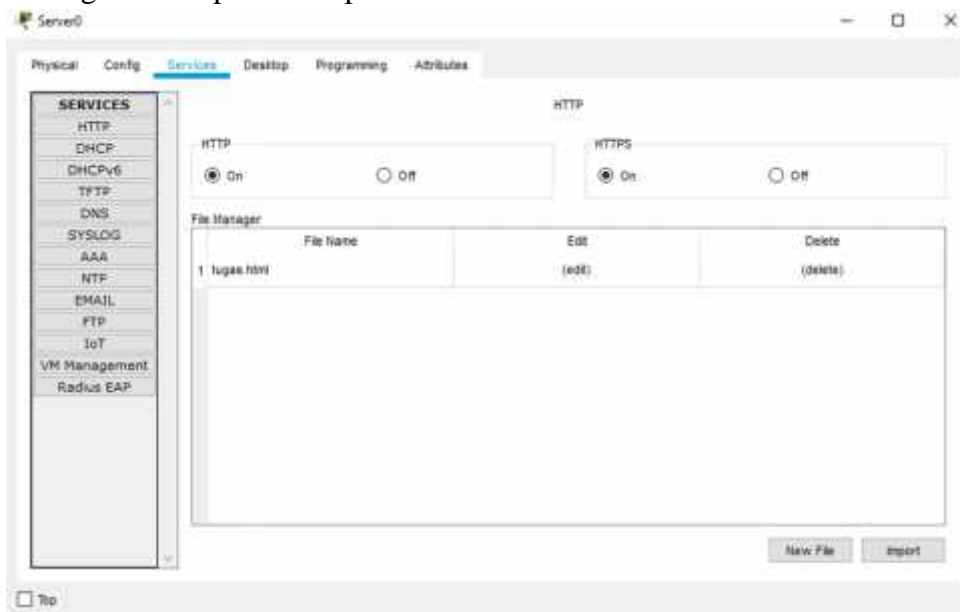
Username:

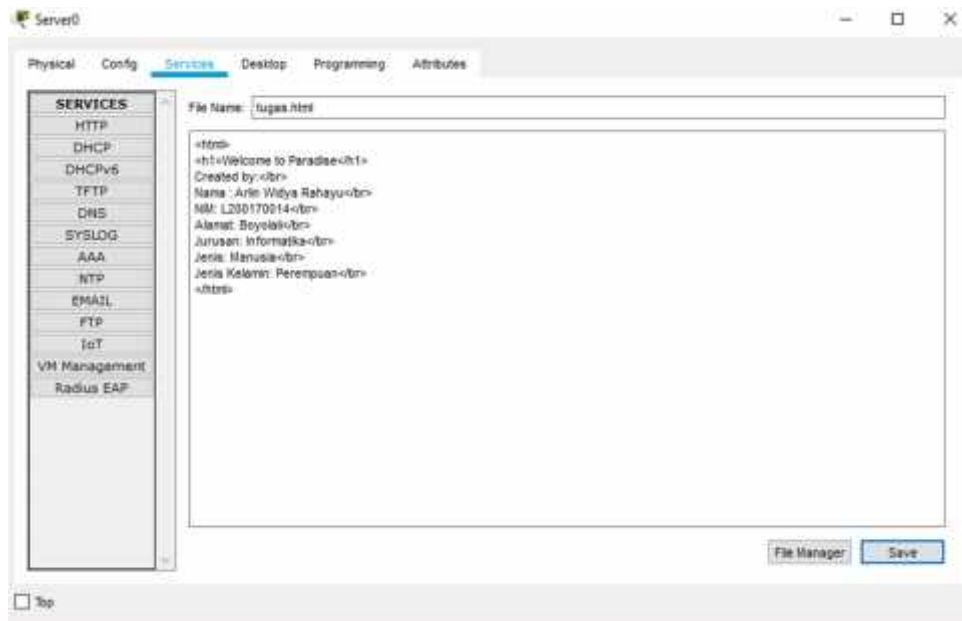
Password:

Top



Konfigurasi script HTML pada Server





Melakukan browsing HTTP

