

## Praktikum Jaringan Komputer Modul 5

### Kegiatan Praktikum

#### A. DHCP Server

Server = 192.168.123.1/24

DHCP = ON

Start IP = 192.168.123.19

User Max = 5

Range IP = 192.168.123.19 – 192.168.123.23

### Topologi

#### IP Configuration Server

The image displays a network topology and the configuration window for a DHCP server in a network simulator.

**Network Topology:**

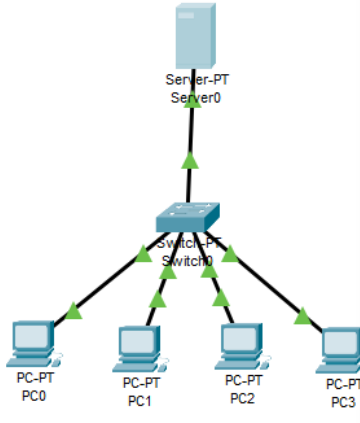
- A central **Switch-PT** is connected to four **PC-PT** devices labeled **PC0**, **PC1**, **PC2**, and **PC3**.
- The **Switch-PT** is connected to a **Server-PT** labeled **Server0**.

**IP Configuration Window (FastEthernet0):**

- Physical** tab is selected.
- Config** sub-tab is active.
- GLOBAL** section: **Settings** and **Algorithm Settings** are visible.
- INTERFACE** section: **FastEthernet0** is selected.
- Port Status**: ☒ **On**.
- Bandwidth**: ☒ **100 Mbps**, ☐ **10 Mbps**, ☒ **Auto**.
- Duplex**: ☐ **Half Duplex**, ☒ **Full Duplex**, ☒ **Auto**.
- MAC Address**: **00D0.BA09.5C8C**.
- 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:BAFF:FE09:5C8C**

## Configuration DHCP

17. y: 13



Server-PT  
Server0

Switch-PT  
Switch0

PC-PT  
PC0

PC-PT  
PC1

PC-PT  
PC2

PC-PT  
PC3

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: 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....	255....	5	0.0.0.0	0.0.0.0

< >

☐ Top

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

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::290:2BFF:FED8:9D57

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ 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::20A:41FF:FE21:9CAA

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ 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:CFF:FE10:CD92

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

PC3

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

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::2D0:97FF:FE0C:2A3A

IPv6 Gateway

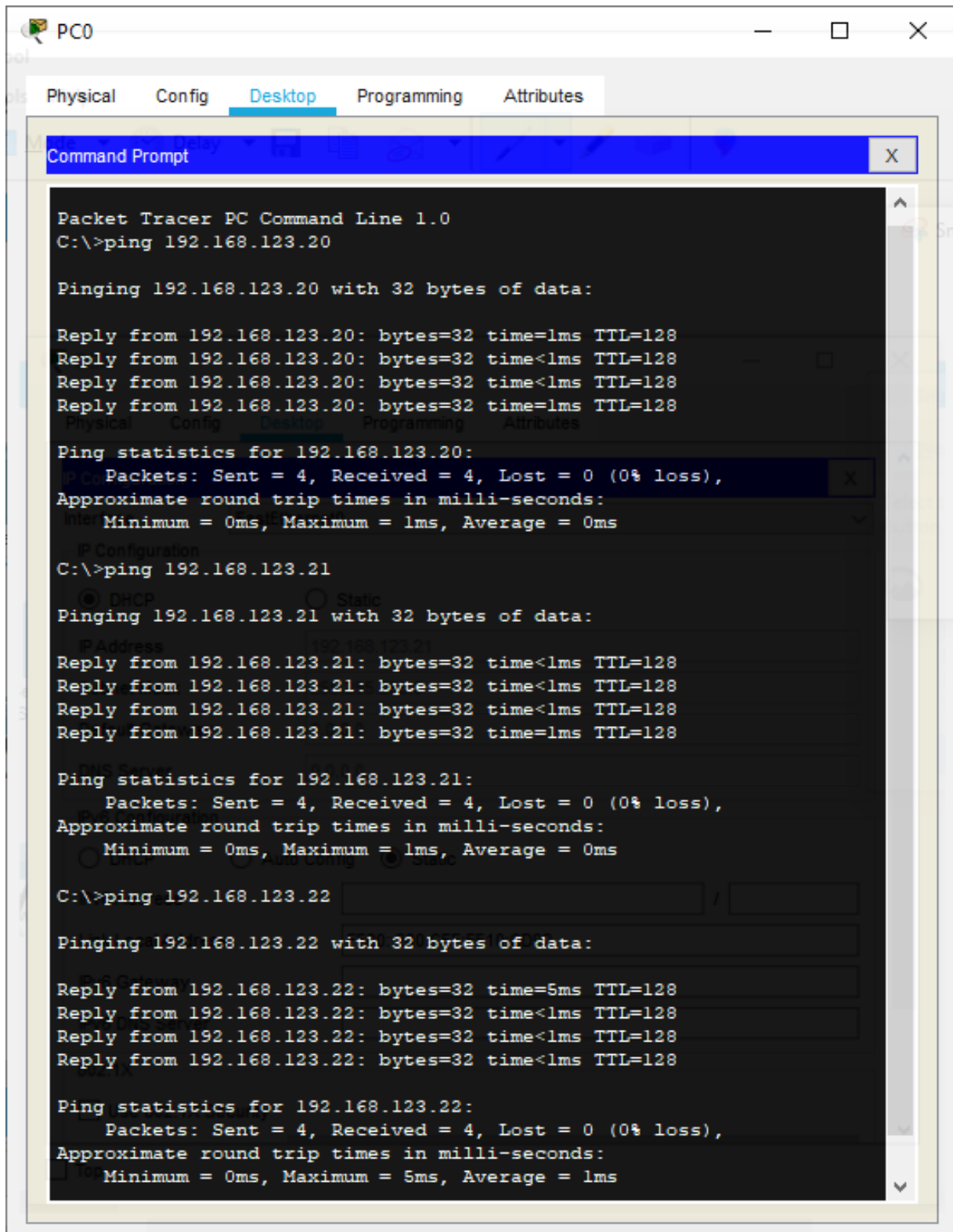
IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

PING Semua PC yang terhubung ke Server



The screenshot shows a Packet Tracer interface with a PC named PC0. The 'Desktop' tab is selected, displaying a Command Prompt window. The Command Prompt shows the execution of three ping commands, each with its corresponding output statistics.

```
Packet Tracer PC Command Line 1.0
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 = 0ms

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 = 0ms

C:\>ping 192.168.123.22

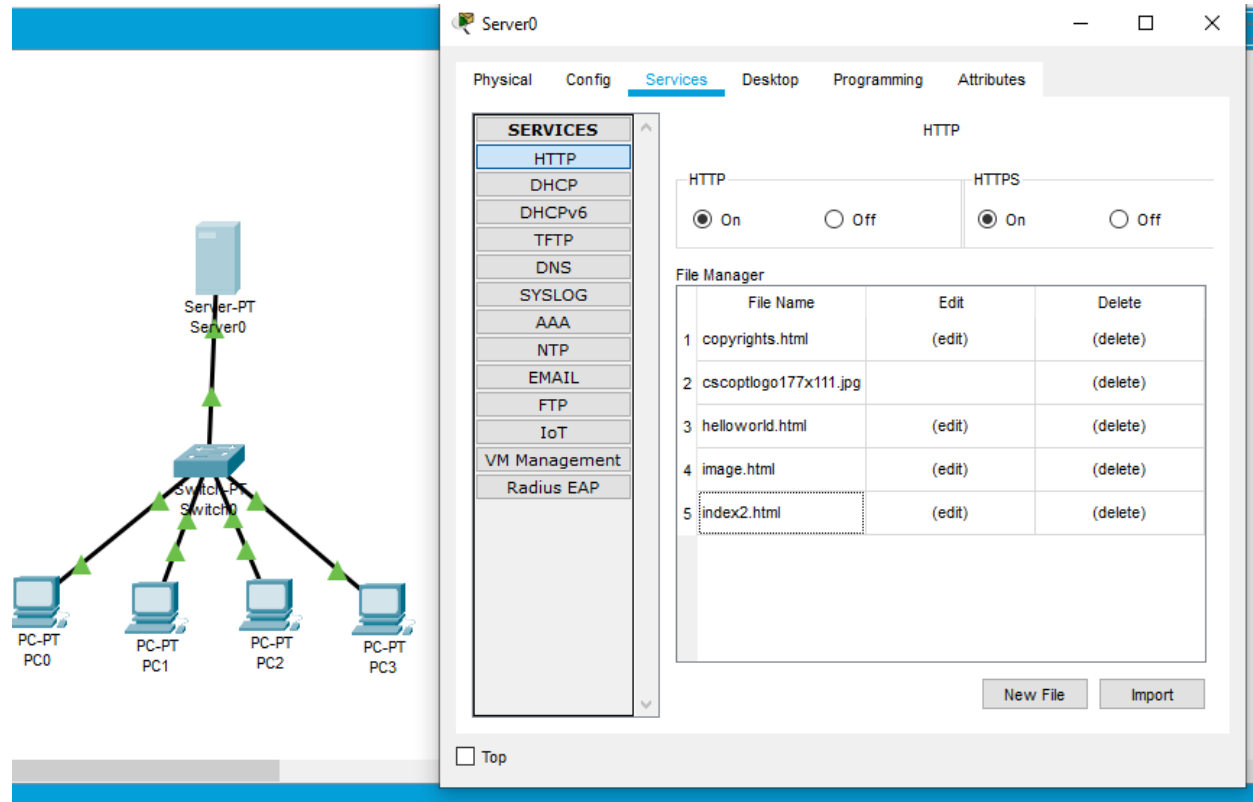
Pinging 192.168.123.22 with 32 bytes of data:

Reply from 192.168.123.22: bytes=32 time=5ms 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 = 5ms, Average = 1ms
```

## WEB Server

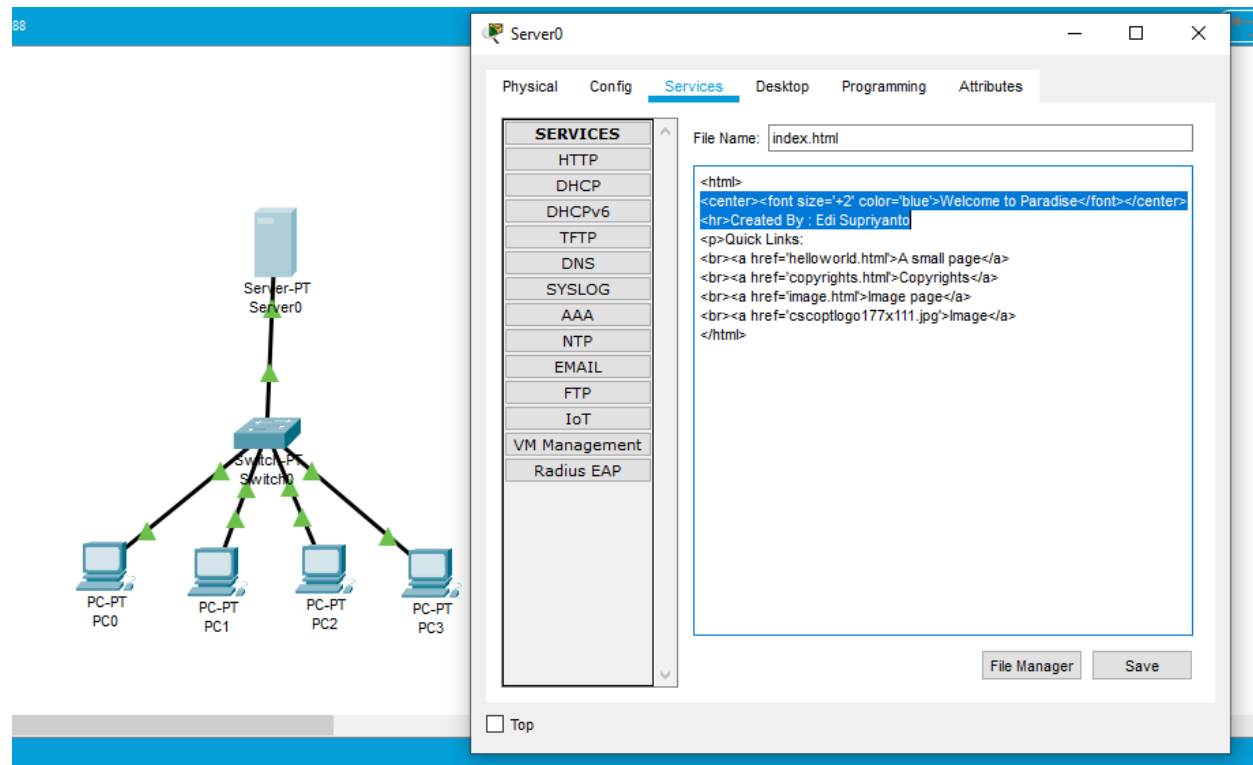
HTTP = ON



The image shows a network diagram on the left and a configuration window for 'Server0' on the right. The network diagram illustrates a central 'Switch-PT Switch0' connected to four 'PC-PT' devices (PC0, PC1, PC2, PC3) and a 'Server-PT Server0'. The configuration window has tabs for Physical, Config, Services, Desktop, Programming, and Attributes. The 'Services' tab is active, showing a list of services on the left and configuration options on the right. The 'HTTP' service is selected and set to 'On'. The 'HTTPS' service is also set to 'On'. Below these, a 'File Manager' table lists five files: copyrights.html, cscoptlogo177x111.jpg, helloworld.html, image.html, and index2.html, each with 'Edit' and 'Delete' options. At the bottom of the window are 'New File' and 'Import' buttons.

File Name	Edit	Delete
1 copyrights.html	(edit)	(delete)
2 cscoptlogo177x111.jpg		(delete)
3 helloworld.html	(edit)	(delete)
4 image.html	(edit)	(delete)
5 index2.html	(edit)	(delete)

## Edit File index.html



The image shows the same network diagram as the previous block on the left. On the right, the 'Server0' configuration window is shown with the 'Services' tab active. The 'HTTP' service is set to 'On'. The 'File Manager' table is visible, and the 'index.html' file is selected. The 'Edit' button for 'index.html' is highlighted. The configuration window also shows a 'File Name' field with 'index.html' and a text area containing the following HTML code:

```
<html>
<center><font size='+2' color='blue'>Welcome to Paradise</font></center>
<hr>Created By : Edi Supriyanto
<p>Quick Links:
<br><a href='helloworld.html'>A small page</a>
<br><a href='copyrights.html'>Copyrights</a>
<br><a href='image.html'>Image page</a>
<br><a href='cscoptlogo177x111.jpg'>Image</a>
</html>
```

At the bottom of the window are 'File Manager' and 'Save' buttons.

Hasil WEB Server di PC0

Buka Desktop>web browser>ketikkan "192.168.123.1" pada URL> enter/Klik Go

