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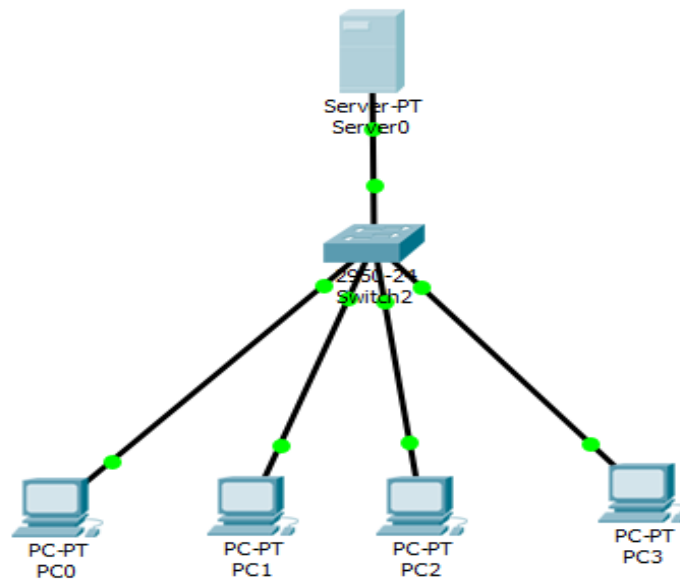
## **PRAKTIKUM JARINGAN KOMPUTER**

### **DHCP SERVER DAN WEB SERVER**

#### **Modul 5**

##### **1. Praktikum 1 Membuat DHCP Server**

- Membuat server DHCP dengan menggunakan 5 buah workstation, 1 switch, dan 1 server. Seperti gambar gambar berikut ini :



- Mengisi IP Address Server 0

Server0

Physical Config Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0060.4707.BA53

IP Configuration

☐ DHCP

☒ Static

IP Address 192.168.123.1

Subnet Mask 255.255.255.0

IPv6 Configuration

☒ DHCP

☐ Auto Config

☐ Static

IPv6 Address

Link Local Address: FE80::260:47FF:FE07:BA53

Top

- Mengkonfigurasi DHCP server dan mengisi IP Address yang diberikan PC client

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 : 192 168 123 19

Subnet Mask: 255 255 255 0

Maximum Number of Users : 5

TFTP Server: 0.0.0.0

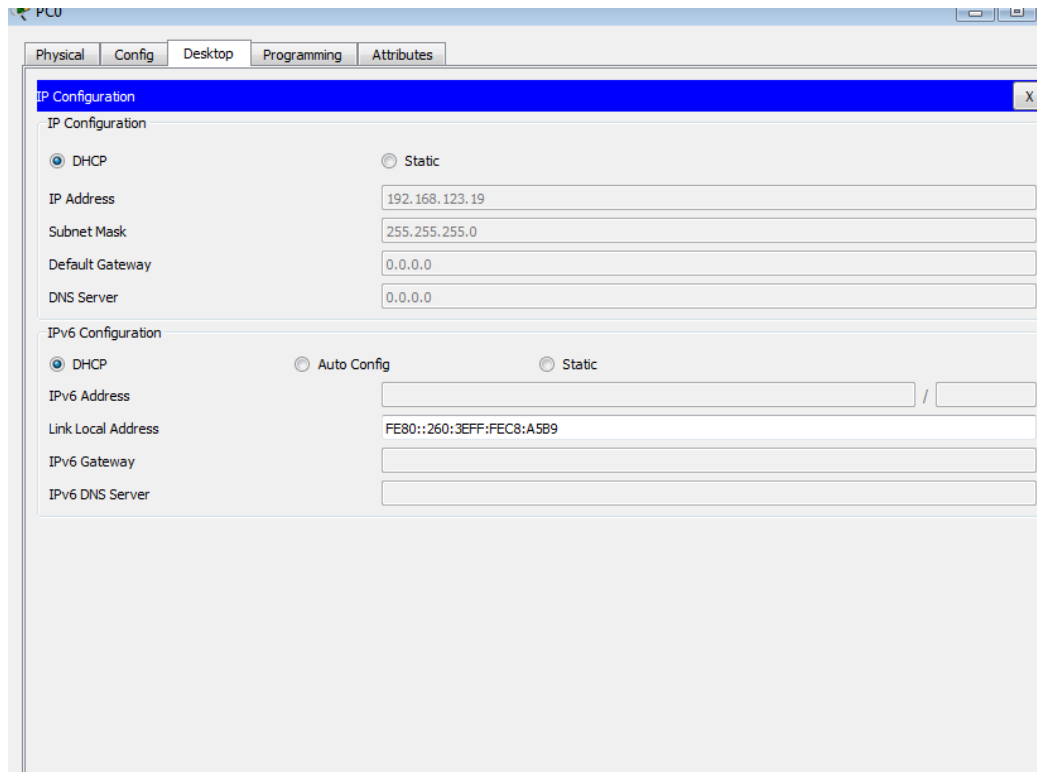
WLC Address: 0.0.0.0

Add Save Remove

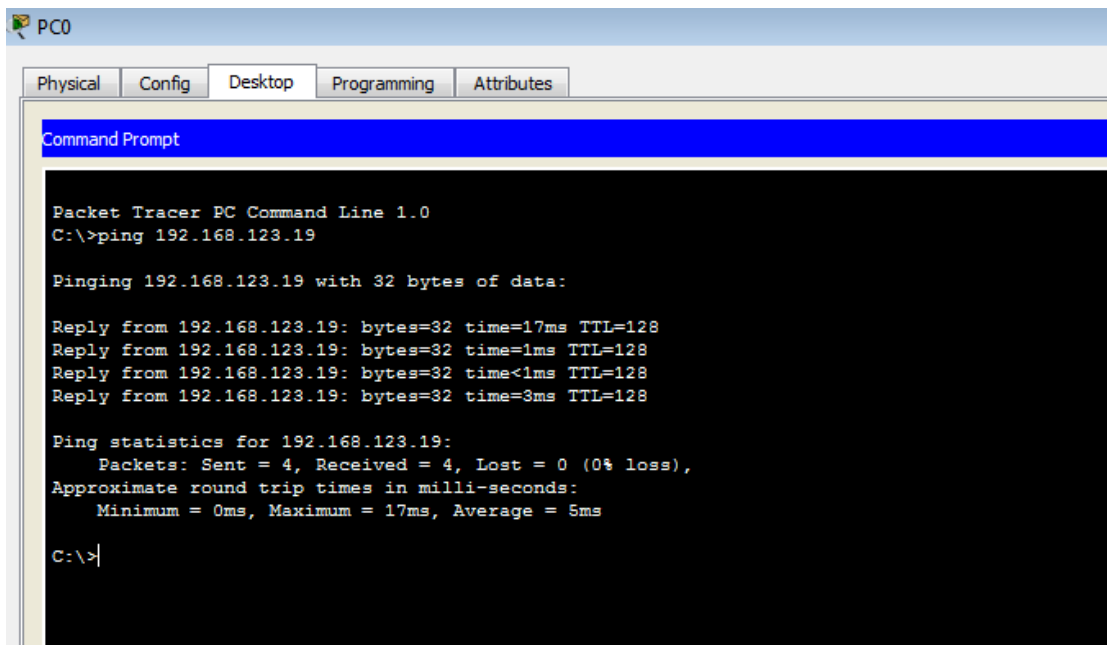
Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123...	255.255.255.0	5	0.0.0.0	0.0.0.0

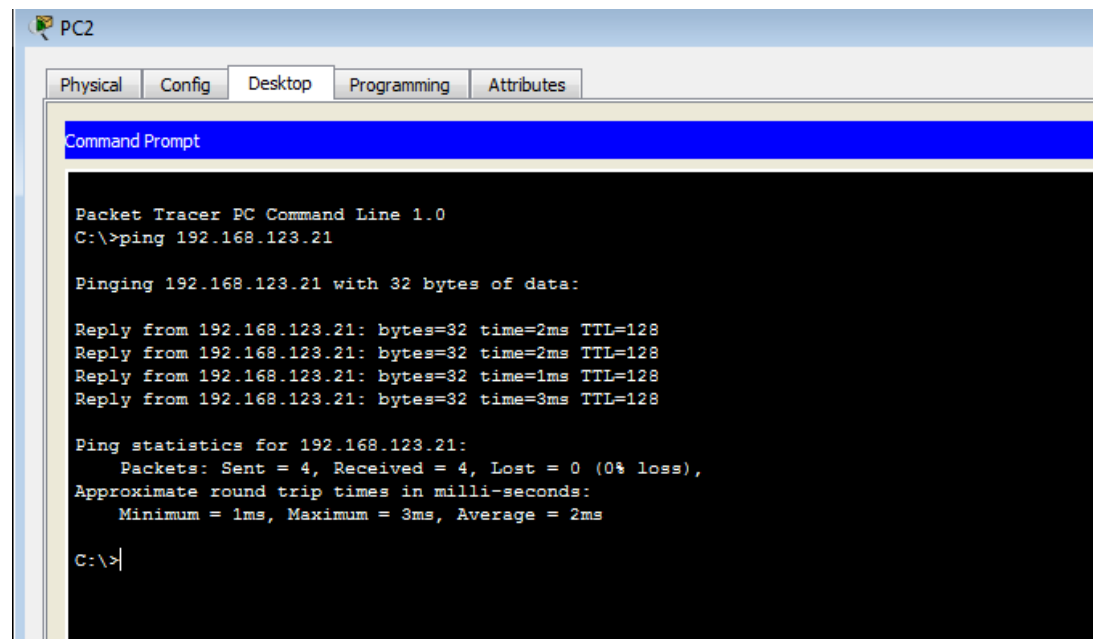
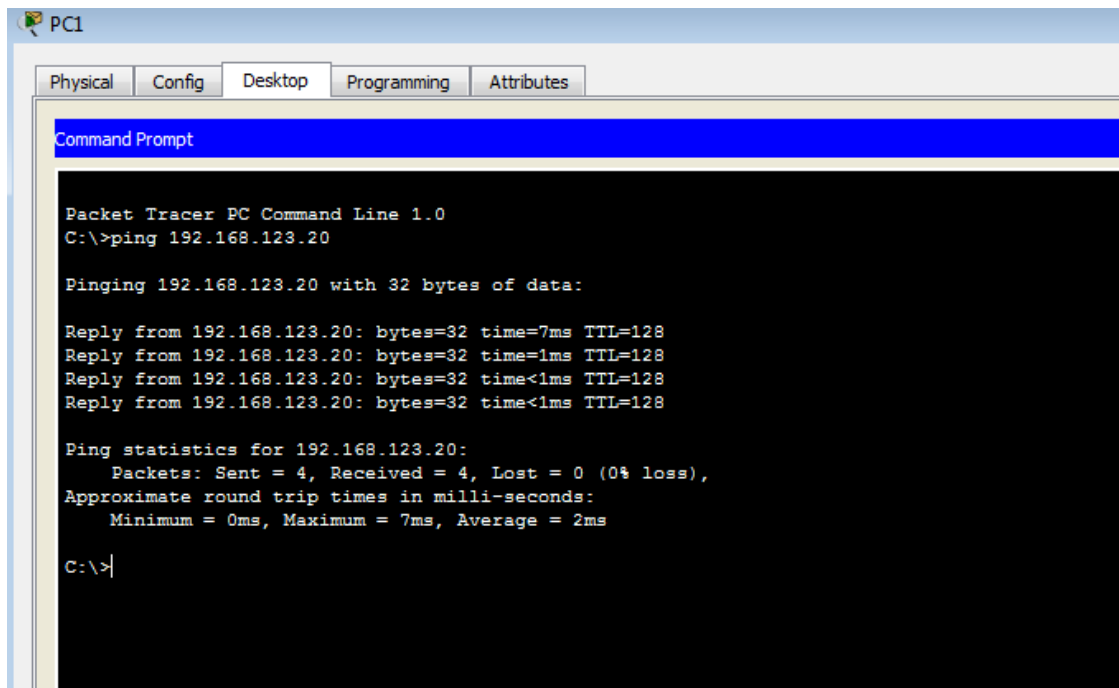
Top

- Konfigurasi pada sisi client, pada PC0
- Memilih pilihan DHCP, dan dicek apakah IP Address sudah sesuai pada gambar di modul.



- Melakukan ping ke semua pc yang terhubung ke server





PC3

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.22

Pinging 192.168.123.22 with 32 bytes of data:

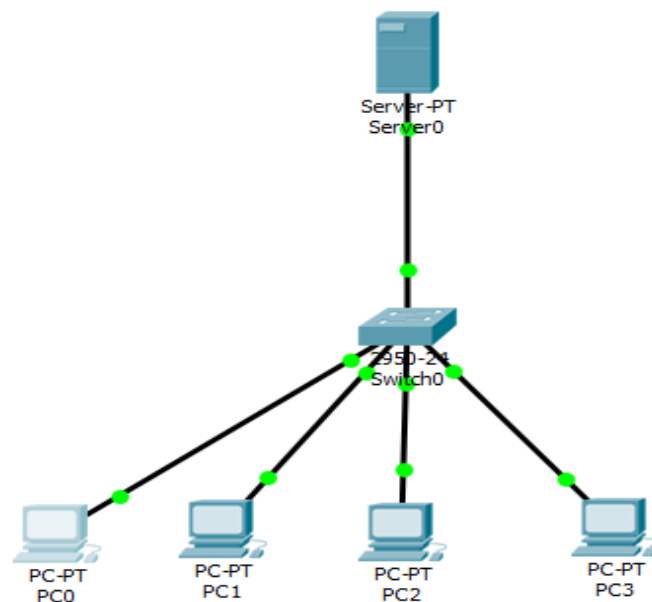
Reply from 192.168.123.22: bytes=32 time=10ms TTL=128
Reply from 192.168.123.22: bytes=32 time=2ms TTL=128
Reply from 192.168.123.22: bytes=32 time=1ms TTL=128
Reply from 192.168.123.22: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.123.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 3ms

C:\>|
```

## 2. Praktikum 2 Membuat web server

- Simulasi Server HTTP dengan 1 buah workstation dan 1 server seperti pada gambar di modul.



- Melakukan Konfigurasi IP Address pada PC 0 dan pada server 0 sesuai langkah praktikum sebelumnya.

The screenshot shows the 'Config' tab for 'Server0'. The left sidebar has a tree view with 'GLOBAL' (Settings, Algorithm Settings) and 'INTERFACE' (FastEthernet0). The main area is titled 'FastEthernet0' and contains the following settings:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 0060.4707.BA53
- 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::260:47FF:FE07:BA53

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

The screenshot shows the 'Services' tab for 'Server0'. The left sidebar has a tree view with 'SERVICES' (HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, FTP, IoT, VM Management). The main area is titled 'DHCP' and contains the following settings:

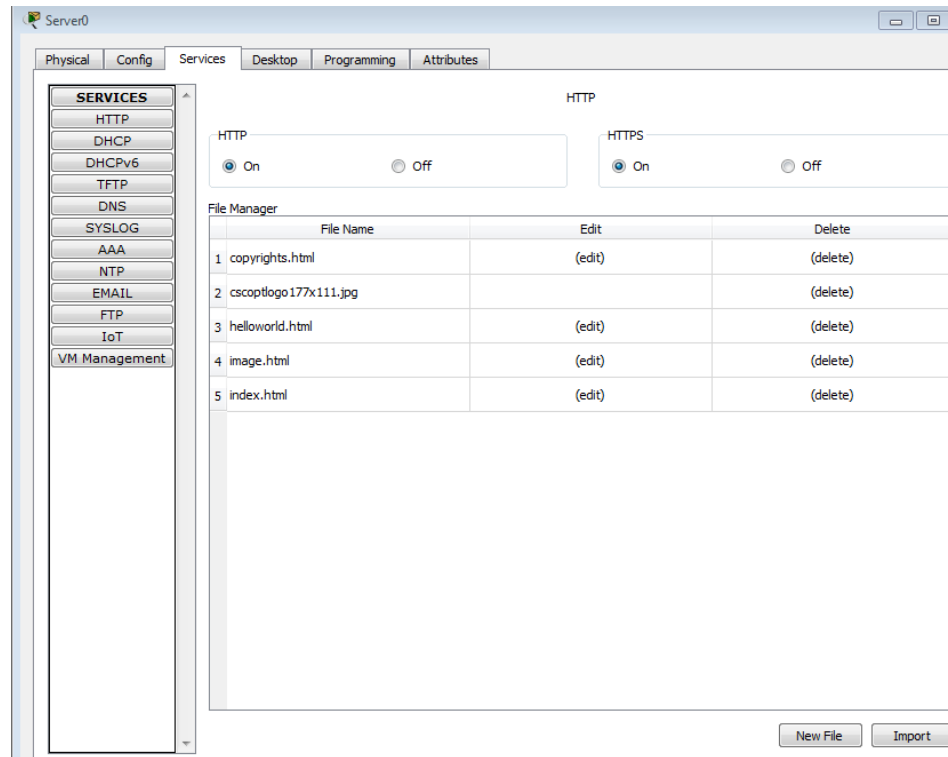
- Interface: FastEthernet0
- Service: ☒ On ☐ Off
- Pool Name: serverPool
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- Start IP Address: 192.168.123.19
- Subnet Mask: 255.255.255.0
- Maximum Number of Users: 5
- TFTP Server: 0.0.0.0
- WLC Address: 0.0.0.0

Below the settings are three buttons: 'Add', 'Save', and 'Remove'. At the bottom, there is a table showing the configured DHCP 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...	255.255.255.0	5	0.0.0.0	0.0.0.0

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

- Mengaktifkan HTTP pada server0 dengan klik radio button “On”



- Melakukan HTTP browsing di jendela PC0, dengan mengetikkan IP Address Server0 HTTP(192.168.123.1) di field URL.

