

NAMA : FARAH HUSNA PARAMADINA

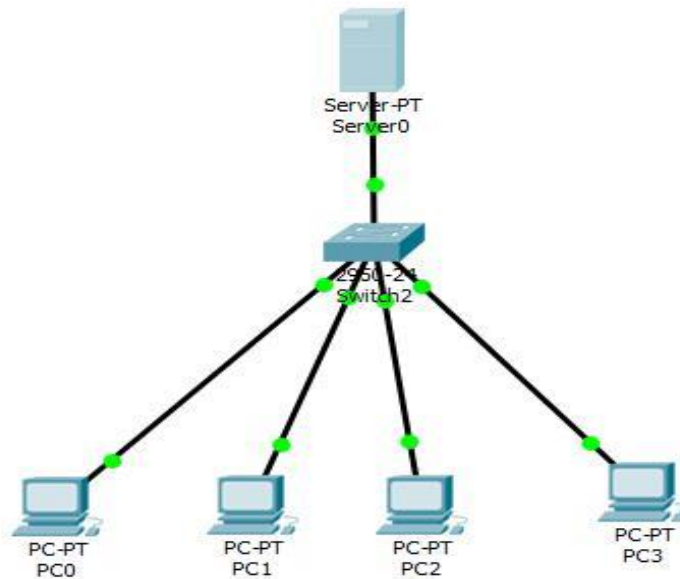
NIM : L200183094

KELAS : X

Modul 5

1. Practicum 1 Make a DHCP Server

- Creating a DHCP server using 5 workstations, 1 switch, and 1 server. Like the picture below picture :



- Fill in Server IP Address 0

The screenshot shows the 'FastEthernet0' configuration window. The left sidebar has 'INTERFACE' selected, with 'FastEthernet0' highlighted. The main area shows 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.

- Configure DHCP server and fill in the IP Address given by the client PC

The screenshot shows the 'DHCP' configuration window. The left sidebar has 'SERVICES' selected, with 'DHCP' highlighted. The main area shows the following settings:

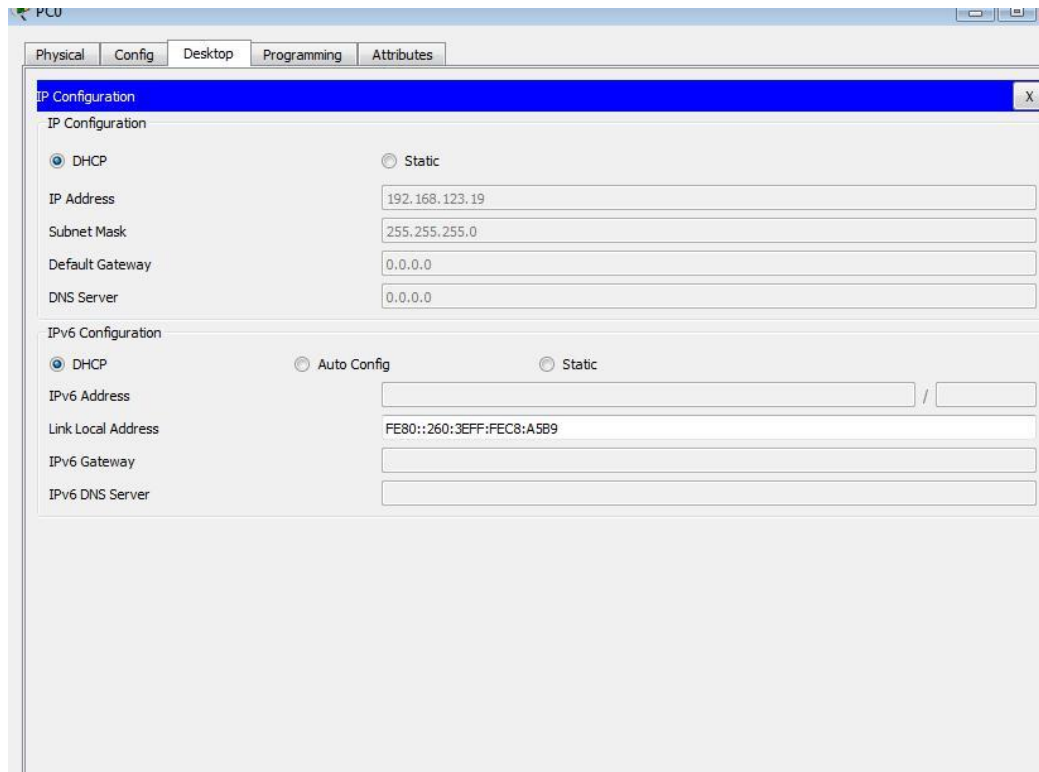
- Interface: FastEthernet0
- Service: ☒ On ☐ Off
- Pool Name: serverPool
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- Start IP Address: 192, 168, 123, 19
- Subnet Mask: 255, 255, 255, 0
- Maximum Number of Users: 5
- TFTP Server: 0.0.0.0
- WLC Address: 0.0.0.0

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

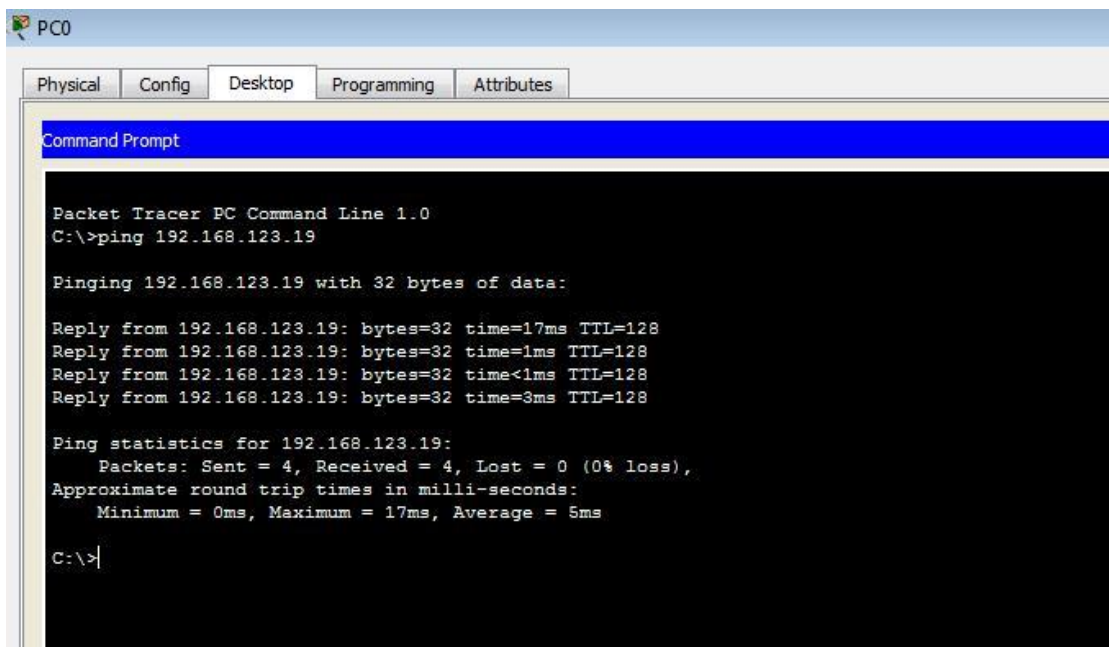
Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123...	255.255.255.0	5	0.0.0.0	0.0.0.0

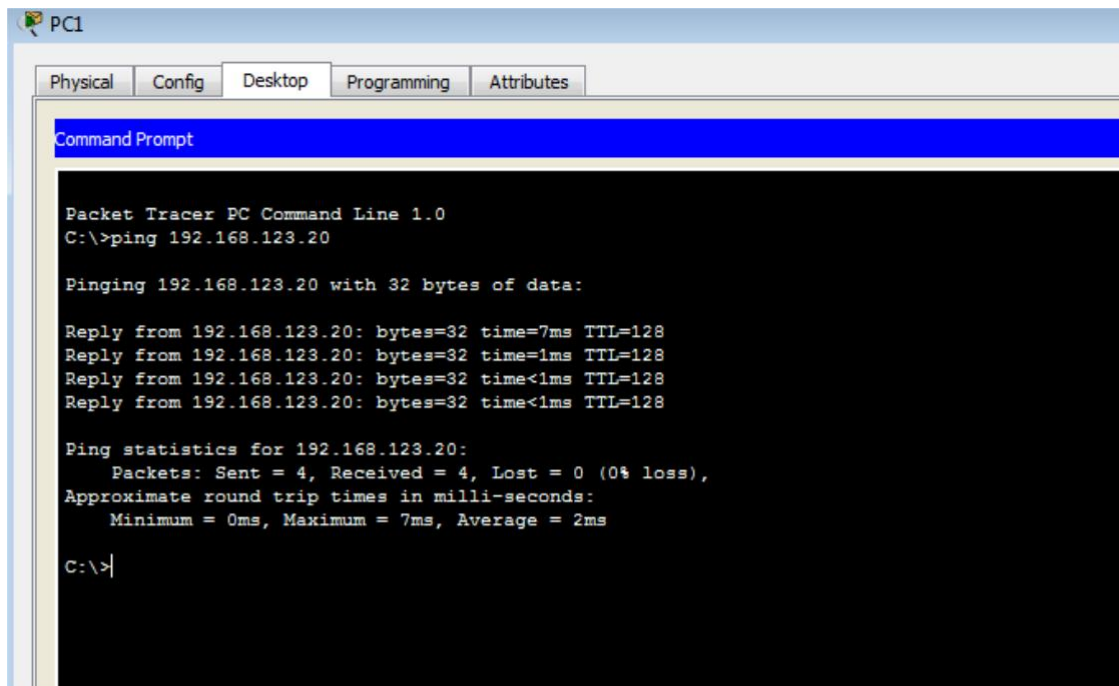
At the bottom left, there is a 'Top' button.

- Configuration on the client side, on PC0
- Select the DHCP option, and check whether the IP Address is as appropriate as the image in the module.



- Ping all PCs that are connected to the server





PC1

Physical Config Desktop Programming Attributes

Command Prompt

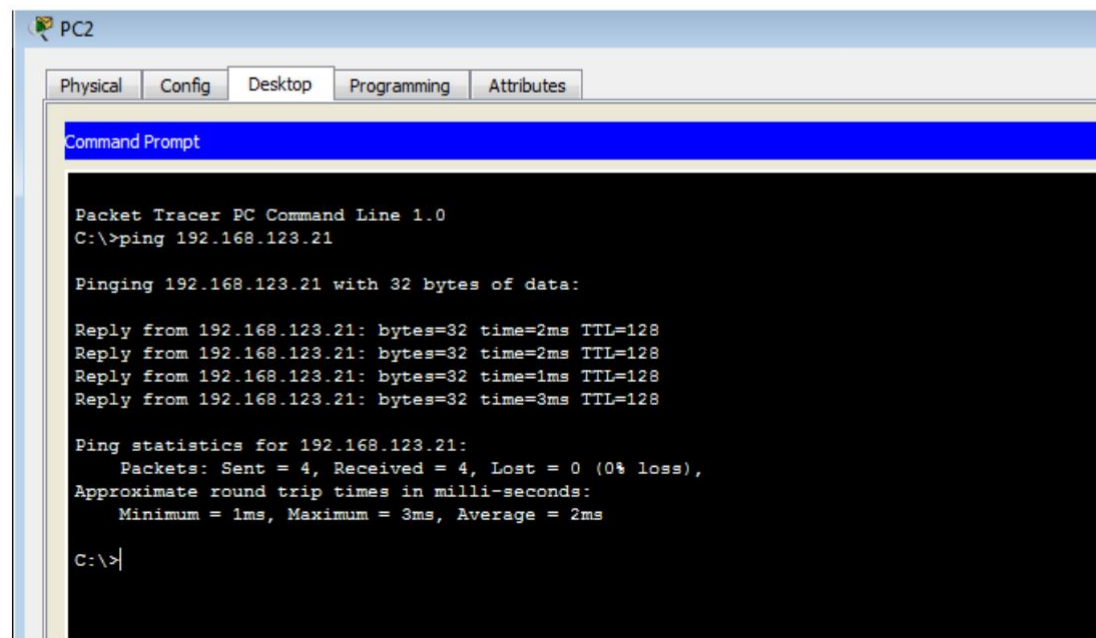
```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.20

Pinging 192.168.123.20 with 32 bytes of data:

Reply from 192.168.123.20: bytes=32 time=7ms 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 = 7ms, Average = 2ms

C:\>|
```



PC2

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
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=2ms TTL=128
Reply from 192.168.123.21: bytes=32 time=2ms TTL=128
Reply from 192.168.123.21: bytes=32 time=1ms TTL=128
Reply from 192.168.123.21: bytes=32 time=3ms 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 = 1ms, Maximum = 3ms, Average = 2ms

C:\>|
```

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:

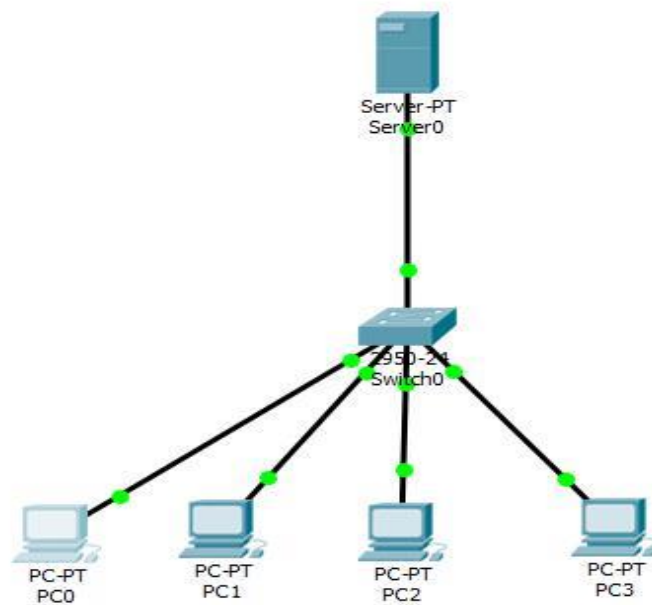
Reply from 192.168.123.22: bytes=32 time=10ms TTL=128
Reply from 192.168.123.22: bytes=32 time=2ms TTL=128
Reply from 192.168.123.22: bytes=32 time=1ms TTL=128
Reply from 192.168.123.22: bytes=32 time=2ms TTL=128

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. Practicum 2 Make a web server

- HTTP Server Simulation with 1 workstation and 1 server as shown in the module.



- Configuring IP Address on PC 0 and server 0 according to the previous practicum steps.

The screenshot shows the 'Config' tab for 'FastEthernet0' on 'Server0'. The left sidebar has 'INTERFACE' selected, with 'FastEthernet0' highlighted. The main area shows the following settings:

- Port Status:** On (checked)
- Bandwidth:** 100 Mbps (selected), 10 Mbps, Auto (checked)
- Duplex:** Half Duplex, Full Duplex (selected), Auto (checked)
- 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 'SERVICES' selected, with 'DHCP' highlighted. The main area shows the following settings:

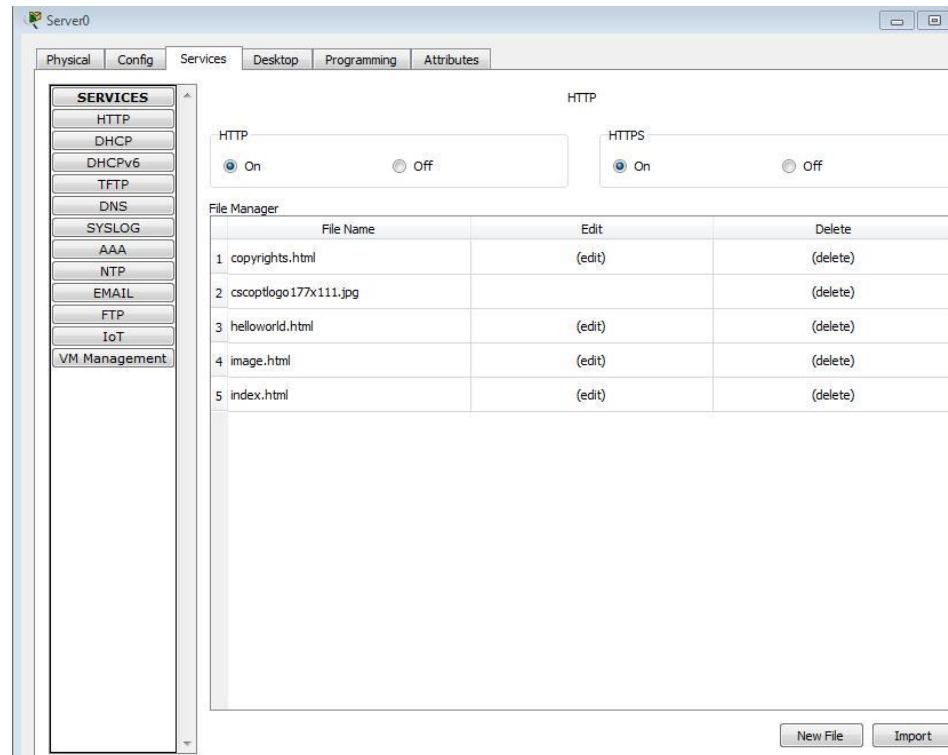
- Interface:** FastEthernet0
- Service:** On (selected), Off
- Pool Name:** serverPool
- Default Gateway:** 0.0.0.0
- DNS Server:** 0.0.0.0
- Start IP Address:** 192, 168, 123, 19
- Subnet Mask:** 255, 255, 255, 0
- Maximum Number of Users:** 5
- TFTP Server:** 0.0.0.0
- WLC Address:** 0.0.0.0

Below the settings are buttons for 'Add', 'Save', and 'Remove'. At the bottom, there 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...	255.255.255.0	5	0.0.0.0	0.0.0.0

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

- Enabling HTTP on server0 by clicking on the radio button "On"



- Perform HTTP browsing in the PC0 window, by typing the HTTP Server0 IP Address (192.168.123.1) in the URL field.
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