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## MODUL 5

### PRAKTIKUM 1 MEMBUAT DHCP SERVER

The network diagram shows a central switch connected to five PCs (PC0-PC4) and a server (Server-PT Server0). The switch is connected to the server. The server is configured as a DHCP server.

**Server0 Configuration (FastEthernet0):**

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 0005.5E82.8B9B
- 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]
- Link Local Address: FE80::205:5EFF:FE82:8B9B

The network diagram shows a central switch connected to five PCs (PC0-PC4) and a server (Server-PT Server0). The switch is connected to the server. The server is configured as a DHCP server.

**Server0 Configuration (Services):**

- 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

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

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 369, y: 12

```

graph TD
    Server[Server-PT Server0] --- Switch[Switch]
    Switch --- PC0[PC-PT PC0]
    Switch --- PC1[PC-PT PC1]
    Switch --- PC2[PC-PT PC2]
    Switch --- PC3[PC-PT PC3]
    Switch --- PC4[PC-PT PC4]
  
```

PC0

Physical Config Desktop Programming Attributes

GLOBAL Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0030.F2DD.0687

IP Configuration

☒ DHCP

☐ Static

IP Address 192.168.123.19

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address FE80::230:F2FF:FEDD:687

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1179, y: 50

```

graph TD
    Server[Server-PT Server0] --- Switch[Switch]
    Switch --- PC0[PC-PT PC0]
    Switch --- PC1[PC-PT PC1]
    Switch --- PC2[PC-PT PC2]
    Switch --- PC3[PC-PT PC3]
    Switch --- PC4[PC-PT PC4]
  
```

PC0

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=4ms 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 = 4ms, 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),
  
```

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 785, y: 440

```

graph TD
    Server[Server-PT Server0] --- Switch[Switch]
    Switch --- PC0[PC-PT PC0]
    Switch --- PC1[PC-PT PC1]
    Switch --- PC2[PC-PT PC2]
    Switch --- PC3[PC-PT PC3]
    Switch --- PC4[PC-PT PC4]
  
```

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```

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<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

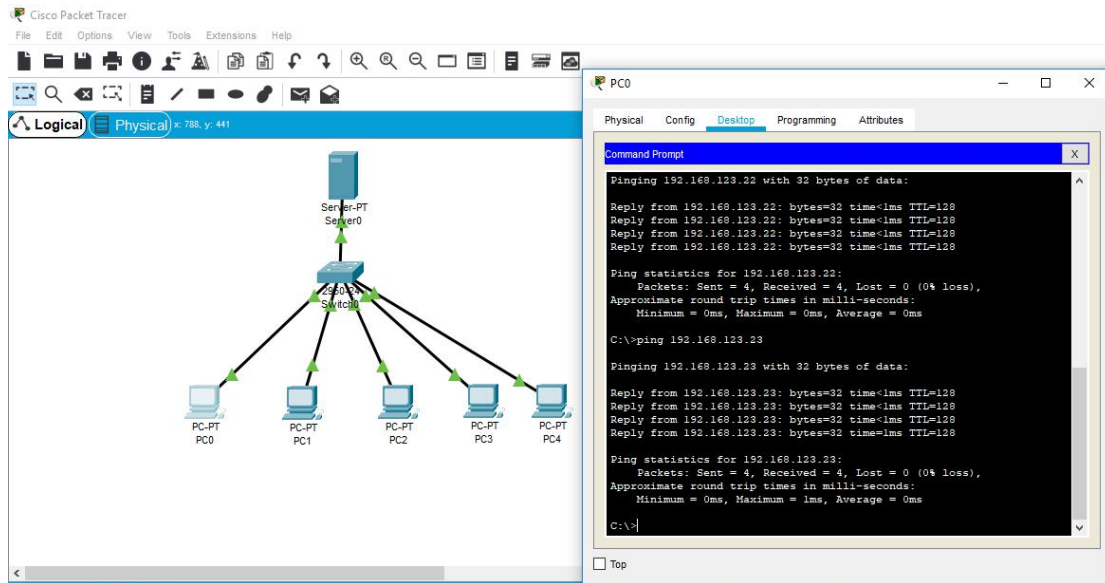
Ping statistics for 192.168.123.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.123.23

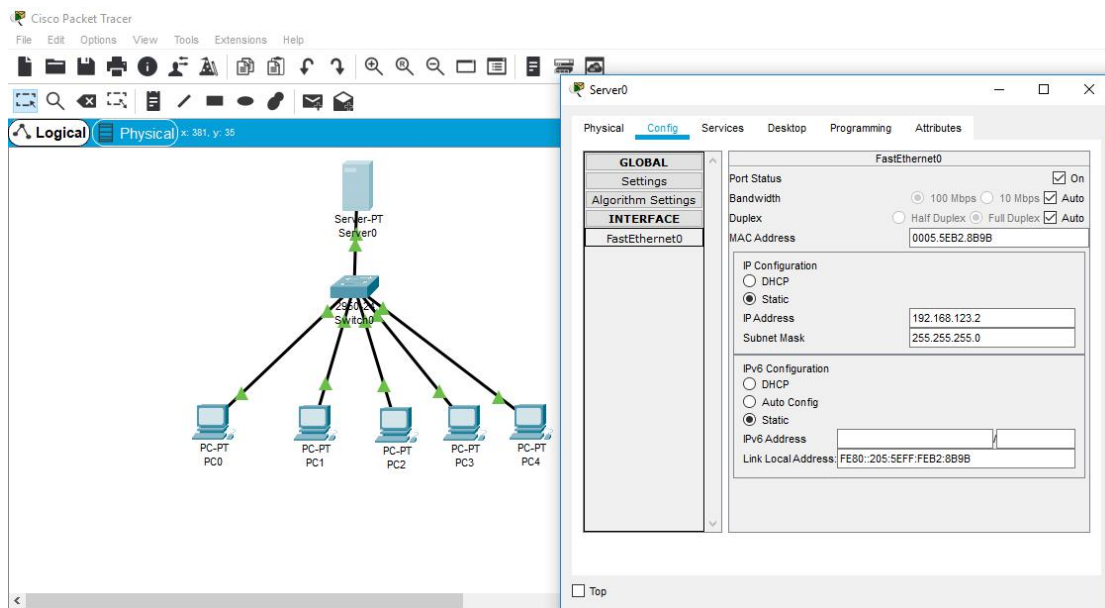
Pinging 192.168.123.23 with 32 bytes of data:

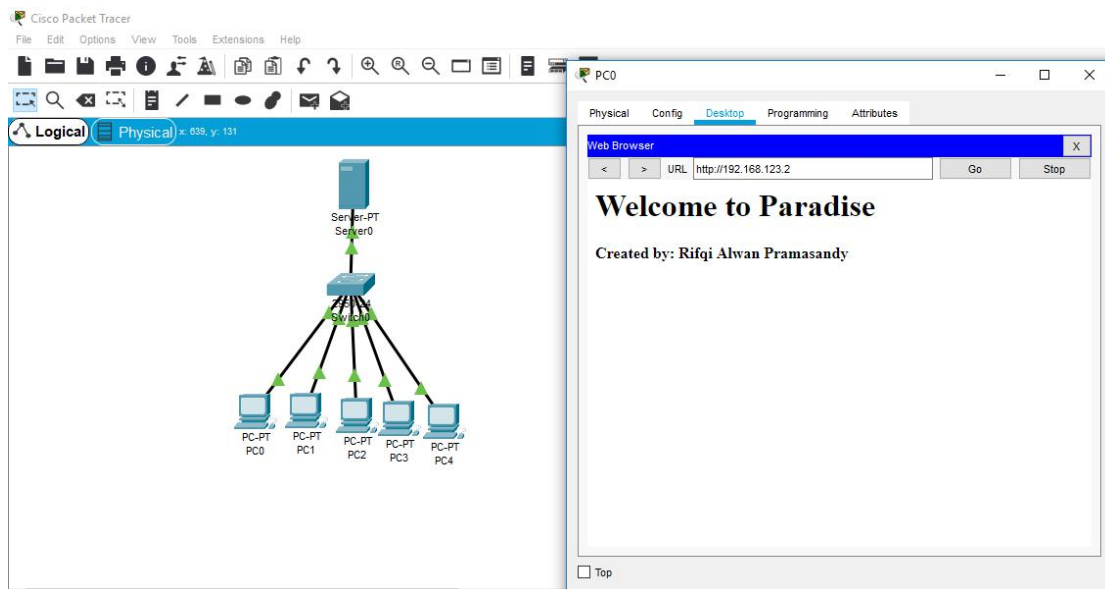
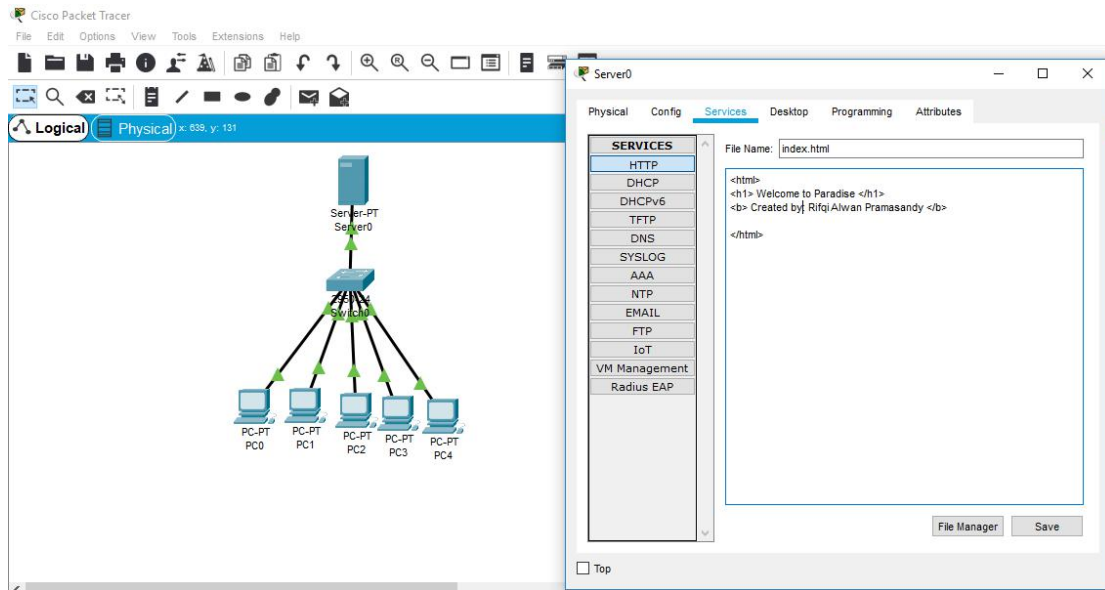
Reply from 192.168.123.23: bytes=32 time<1ms TTL=128
Reply from 192.168.123.23: bytes=32 time<1ms TTL=128
Reply from 192.168.123.23: bytes=32 time<1ms TTL=128
Reply from 192.168.123.23: bytes=32 time<1ms TTL=128
  
```

Top



## PRAKTIKUM 2 MEMBUAT WEB SERVER





# TUGAS

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 381, y: 18

PC5 PC6 PC7 PC8 PC9 PC10 PC11 PC12 PC13 PC14 PC15 PC16 PC17 PC18 PC19 PC20 PC21 PC22 PC23 PC24

Server-PT Server0

PC5

Physical Config Desktop Programming Attributes

P Configuration

Interface FastEthernet0

IP Configuration

☒ 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::2D0:BAFF:FECD:75B8

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 590, y: 436

PC5 PC6 PC7 PC8 PC9 PC10 PC11 PC12 PC13 PC14 PC15 PC16 PC17 PC18 PC19 PC20 PC21 PC22 PC23 PC24

Server-PT Server0

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 192.168.123.23

Pinging 192.168.123.23 with 32 bytes of data:

Reply from 192.168.123.23: bytes=32 time=1ms TTL=128
Reply from 192.168.123.23: bytes=32 time=1ms TTL=128
Reply from 192.168.123.23: bytes=32 time=1ms TTL=128
Reply from 192.168.123.23: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.123.23:
    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=21ms 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 = 21ms, Average = 5ms
```

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 526, y: 76

PC5 PC6 PC7 PC8 PC9 PC10 PC11 PC12 PC13 PC14 PC15 PC16 PC17 PC18 PC19 PC20 PC21 PC22 PC23 PC24

Server-PT Server0

Server0

Physical Config Services Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Name: index.html

```
<html>
<h1> Welcome to Paradise </h1>
<b> Name : Rifqi Alvin Fransandy </b>
<br><b> NIM : L200180008 </b>
<br><b> Alamat : Yogyakarta </b>
<br><b> Jurusan : Informatika </b>
<br><b> Jenis : Regular </b>
<br><b> Jenis Kelamin : Laki-laki </b>
</html>
```

File Manager Save

Top

