

# Laporan Praktikum Jaringan Komputer

NIM : L200180014  
Nama : Andika Wirapala F. A.  
Modul : 5

## PRAKTIKUM 1 MEMBUAT DHCP SERVER

The top screenshot shows the Cisco Packet Tracer interface. On the left, a network topology is displayed: a central 'Switch' is connected to five 'PC-PT' devices (PC0, PC1, PC2, PC3, PC4) and a 'Server-PT' (Server0). On the right, the 'Config' window for 'Server0' is open. The 'FastEthernet0' interface is selected. The 'Port Status' is 'On'. The 'Bandwidth' is '100 Mbps'. The 'Duplex' is 'Full Duplex'. The 'MAC Address' is '0005.5EB2.8B9B'. The 'IP Configuration' is set to 'Static' with an 'IP Address' of '192.168.123.1' and a 'Subnet Mask' of '255.255.255.0'. The 'IPv6 Configuration' is set to 'Static' with an 'IPv6 Address' of 'FE80::205:5EFF:FE82:8B9B' and a 'Link Local Address' of 'FE80::205:5EFF:FE82:8B9B'.

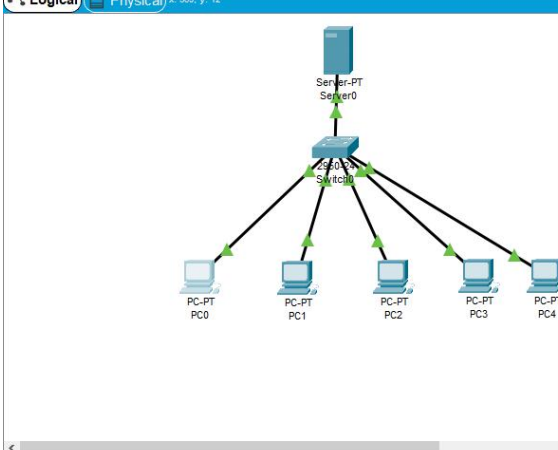
The bottom screenshot shows the same Cisco Packet Tracer interface. On the left, the network topology remains the same. On the right, the 'Services' window for 'Server0' is open. The 'DHCP' service is selected. The 'Interface' is 'FastEthernet0'. The 'Service' is 'On'. The 'Pool Name' is 'serverPool'. The 'Default Gateway' is '0.0.0.0'. The 'DNS Server' is '0.0.0.0'. The 'Start IP Address' is '192.168.123.19'. The 'Subnet Mask' is '255.255.255.0'. The 'Maximum Number of Users' is '5'. The 'TFTP Server' is '0.0.0.0'. The 'WLC Address' is '0.0.0.0'. Below the configuration fields, 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	192.168.123.19	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



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

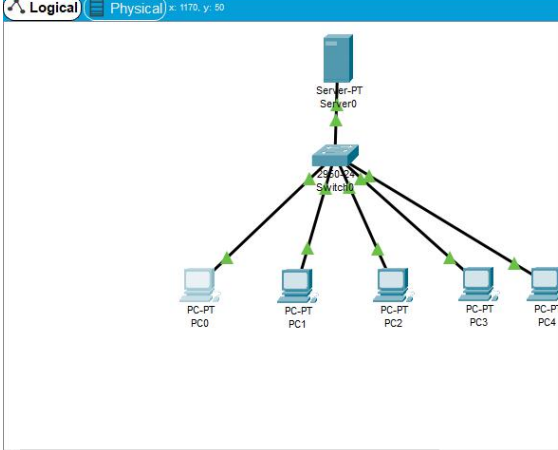
Link Local Address FE80::230:F2FF:FEDD:687

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1170, y: 30



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

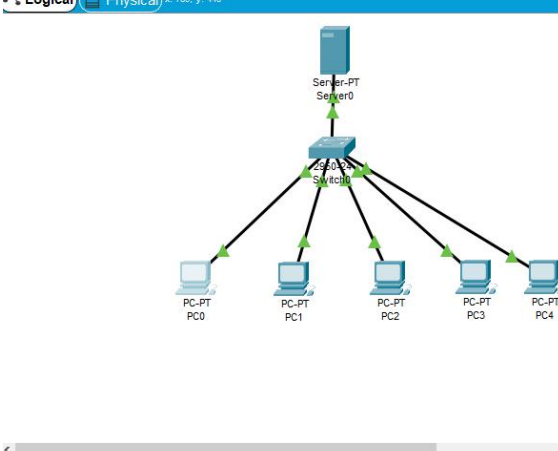
Ping statistics for 192.168.123.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 785, y: 446



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

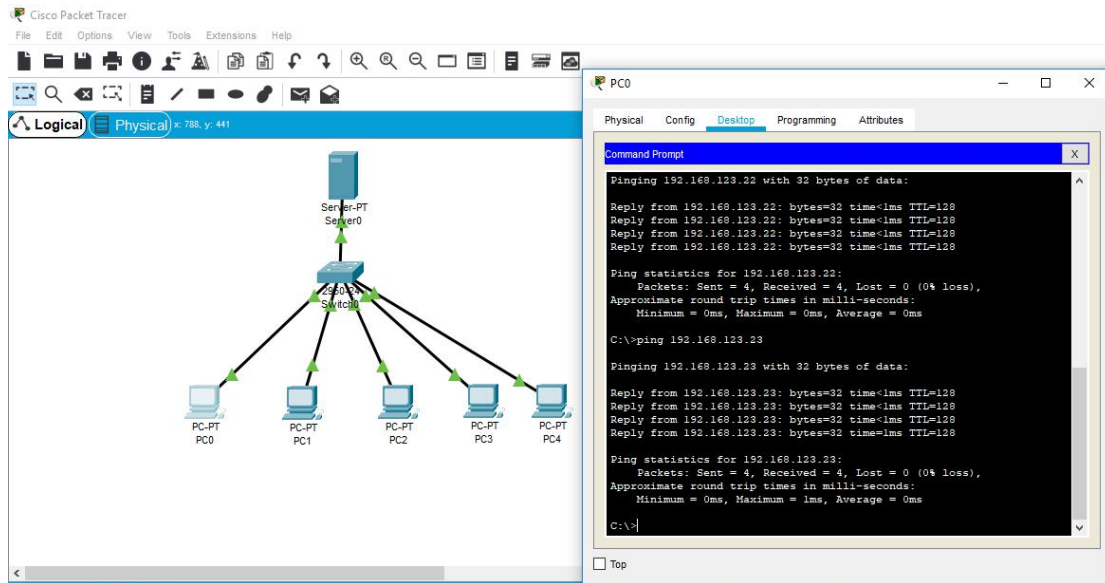
Ping statistics for 192.168.123.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.123.23

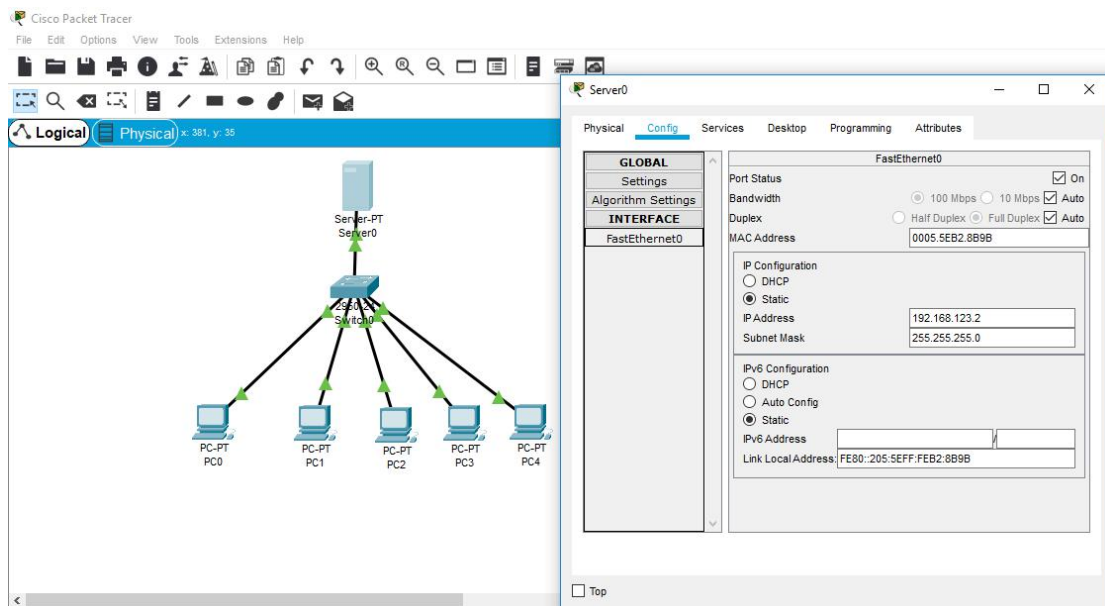
Pinging 192.168.123.23 with 32 bytes of data:

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



Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 638, y: 131

```
graph TD; Server0[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];
```

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> Created by: Andika Wirapala FathinAzfar </b>
</html>
```

File Manager Save

☐ Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 776, y: 382

```
graph TD; Server0[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

Web Browser

< > URL http://192.168.123.2 Go Stop

# Welcome to Paradise

Created by: Andika Wirapala FathinAzfar

☐ Top

# 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:FE03:75B8

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<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 = 2ms, Average = 5ms
```

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1240, y: 47

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> Nama : Andika Wirapala FathinAzfar </b>
<br><b> NIM : L200180014 </b>
<br><b> Alamat : Wonorejo </b>
<br><b> Jurusan : Informatika </b>
<br><b> Jenis : Regular </b>
<br><b> Jenis Kelamin : Laki-laki </b>
</html>
```

File Manager Save

Top

