

VIRLIANA AR
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MODUL 5

Praktikum 1 Membuat DHCP Server

a. Konfigurasi pada server

The image displays a network diagram on the left and a server configuration window on the right. The network diagram shows a central '2450-24 Switch' connected to a 'Server-PT Server2' and four 'PC-PT' devices (PC0, PC1, PC2, PC5). The server configuration window, titled 'Server2', shows the 'Config' tab for the 'FastEthernet0' interface. The 'IP Configuration' section 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' section is set to 'Static' with a Link Local Address of 'FE80::201:C9FF:FE56:7A7B'.

Network Diagram:

- Server-PT Server2
- 2450-24 Switch
- PC-PT PC0
- PC-PT PC1
- PC-PT PC2
- PC-PT PC5

Server Configuration (FastEthernet0):

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 0001.C956.7A7B
- 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::201:C9FF:FE56:7A7B

b. Konfigurasi dhcp pada server

The screenshot displays the Packet Tracer interface. On the left, a network diagram shows a 'Server-PT Server2' connected to a '2550-34 Switch', which is then connected to four 'PC-PT' devices labeled PC0, PC1, PC2, and PC5. On the right, the 'Server2' configuration window is open, with the 'Services' tab selected. The 'DHCP' service is enabled (On). The configuration details for the 'serverPool' are as follows:

| 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 |

c. Konfigurasi pada sisi client

The screenshot displays the Packet Tracer interface. On the left, the same network diagram as in the previous screenshot is shown. On the right, the 'PC0' configuration window is open, with the 'Desktop' tab selected. The 'IP Configuration' window is open, showing the following details:

IP Configuration

Interface: FastEthernet0

☒ 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: [Empty]

Link Local Address: FE80::20D:B0FF:FEC2:573E

IPv6 Gateway: [Empty]

IPv6 DNS Server: [Empty]

802.1X: [Empty]

☐ Use 802.1X Security

Physical x: 74, y: 40

Server-PT Server2

2950-24 Switch

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC5

PC1

Physical Config Desktop Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

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::206:2AFF:FED9:827

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Physical x: 110, y: 22

Server-PT Server2

2950-24 Switch

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC5

PC2

Physical Config Desktop Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

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::20C:CFFF:FE40:3ED6

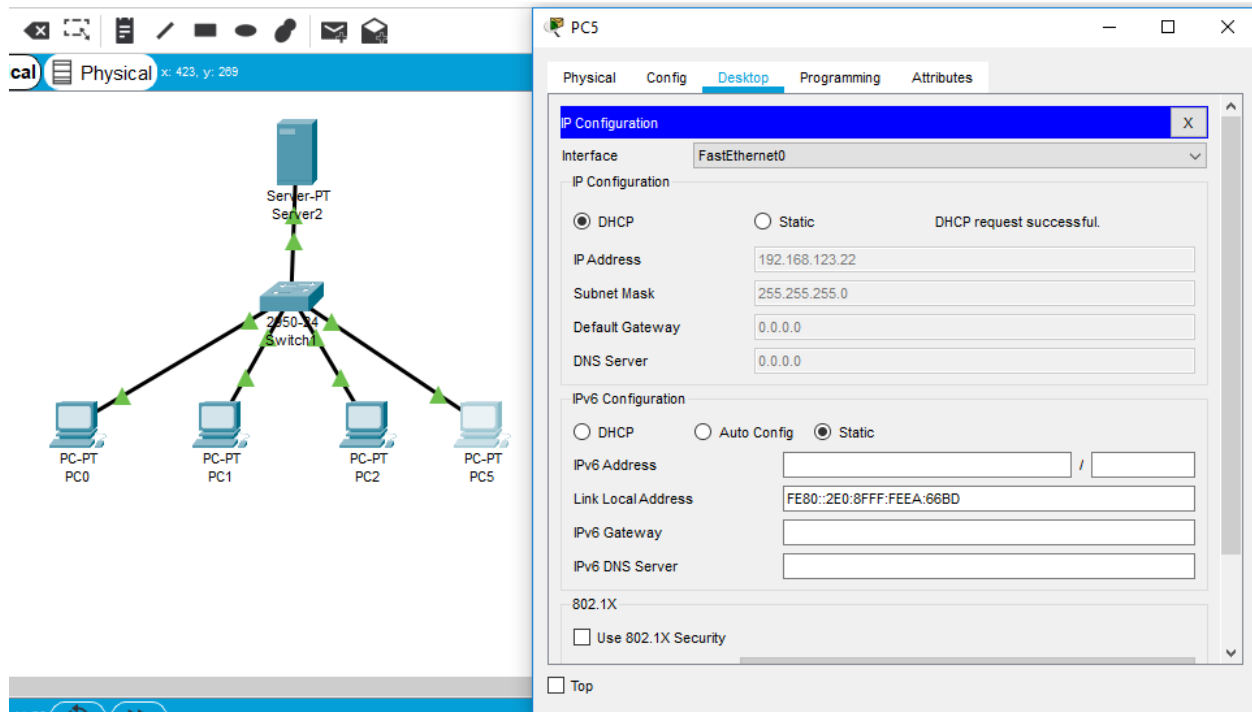
IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top



The image shows a network diagram on the left and a configuration window for PC5 on the right.

Network Diagram: A central switch labeled "2950-24 Switch" is connected to a "Server-PT Server2" above it and four "PC-PT" devices below it, labeled PC0, PC1, PC2, and PC5. Green arrows indicate the connection paths.

PC5 Configuration Window: The "Desktop" tab is selected. The "IP Configuration" window is open for the "FastEthernet0" interface. The "DHCP" radio button is selected, and the status "DHCP request successful." is displayed. The configuration fields are as follows:

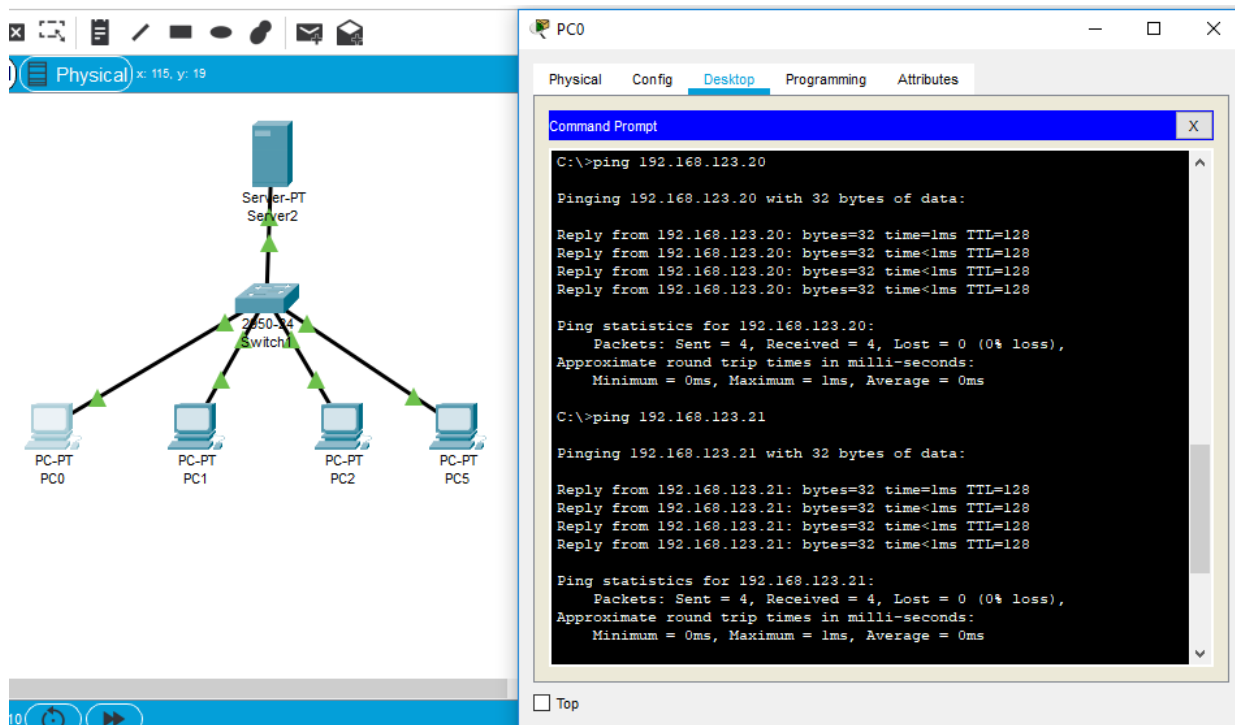
| Field | Value |
|-----------------|----------------|
| IP Address | 192.168.123.22 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | 0.0.0.0 |
| DNS Server | 0.0.0.0 |

Below the IP configuration, the "IPv6 Configuration" section shows the "Static" radio button selected. The fields are:

| Field | Value |
|--------------------|--------------------------|
| IPv6 Address | [Empty] |
| Link Local Address | FE80::2E0:8FFF:FEEA:66BD |
| IPv6 Gateway | [Empty] |
| IPv6 DNS Server | [Empty] |

At the bottom, the "802.1X" section has the "Use 802.1X Security" checkbox unchecked.

d. Melakukan ping ke semua



The image shows the same network diagram on the left and a command prompt window for PC0 on the right.

Network Diagram: Identical to the one above, showing the switch, server, and four PCs (PC0, PC1, PC2, PC5).

PC0 Command Prompt: The "Desktop" tab is selected. The "Command Prompt" window shows the results of two ping commands:

```

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
  
```

The screenshot displays a network simulation environment. On the left, a topology diagram shows a 'Server-PT Server2' connected to a '2950-24 Switch'. The switch is connected to four 'PC-PT' devices labeled PC0, PC1, PC2, and PC5. On the right, a 'PC0' window is open, showing a 'Command Prompt' with the following output:

```

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<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:\>

```

Praktikum 2 Membuat Web Server

a. Konfigurasi pada server

The screenshot displays a network simulation environment. On the left, a topology diagram shows a 'Server-PT Server1' connected to a '2950-24 Switch'. The switch is connected to four 'PC-PT' devices labeled PC4, PC5, PC6, and PC7. On the right, a 'Server1' window is open, showing the 'IP Configuration' tab. The configuration is as follows:

| IP Configuration | |
|--|---|
| <input type="radio"/> DHCP | <input checked="" type="radio"/> Static |
| IP Address | 192.168.123.1 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | 0.0.0.0 |
| DNS Server | 0.0.0.0 |
| IPv6 Configuration | |
| <input type="radio"/> DHCP | <input type="radio"/> Auto Config <input checked="" type="radio"/> Static |
| IPv6 Address | |
| Link Local Address | FE80::260:3EFF:FE74:A31D |
| IPv6 Gateway | |
| IPv6 DNS Server | |
| 802.1X | |
| <input type="checkbox"/> Use 802.1X Security | |
| Authentication | MD5 |

b. Membuat halaman homepage

The screenshot displays the Cisco Packet Tracer interface. On the left, a network topology is shown with a central switch (2950-24) connected to a server (Server-PT Server1) and four PCs (PC-PT PC4, PC-PT PC5, PC-PT PC6, PC-PT PC7). The right pane shows the configuration for 'Server1' under the 'Services' tab. The 'File Name' field is set to 'index.html'. The 'SERVICES' list on the left includes HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, FTP, IoT, VM Management, and Radius EAP. The main text area contains the following HTML code:

```
<html>
<center><font size='+2' color='blue'>Cisco Packet Tracer</font></center>
<hr>Welcome to Paradise
<hr> ISMI DZIKRINA
<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 right pane, there are 'File Manager' and 'Save' buttons. The status bar at the bottom left shows 'Time: 00:28:54'.

C. konfigurasi pada client

The screenshot displays a network topology on the left and the configuration window for PC4 on the right. The topology shows a central 2950-24 Switch connected to a Server-PT (Server1) and four PC-PT devices (PC4, PC5, PC6, PC7). The configuration window for PC4 is open, showing the 'Desktop' tab. The 'IP Configuration' section is active, with 'Static' selected. The IP Address is 192.168.123.19, Subnet Mask is 255.255.255.0, Default Gateway is 192.168.123.1, and DNS Server is 0.0.0.0. The 'IPv6 Configuration' section is also visible, with 'Static' selected and a Link Local Address of FE80::201:97FF:FEE8:3430.

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.123.19

Subnet Mask 255.255.255.0

Default Gateway 192.168.123.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:97FF:FEE8:3430

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

c. Melakukan browsing

The screenshot displays the same network topology as the previous image on the left. On the right, a web browser window is open on PC4, showing the 'Web Browser' tab. The URL bar contains 'http://192.168.123.1'. The browser displays the 'Cisco Packet Tracer' logo and a 'Welcome to Paradise' message. Below this, the name 'ISMI DZIKRINA' is displayed. A 'Quick Links' section contains four links: 'A small page', 'Copyrights', 'Image page', and 'Image'.

Physical Config Desktop Programming Attributes

Web Browser

< > URL http://192.168.123.1 Go Stop

Cisco Packet Tracer

Welcome to Paradise

ISMI DZIKRINA

Quick Links:

[A small page](#)

[Copyrights](#)

[Image page](#)

[Image](#)

☐ Top