

Nama : Rifqi Aditya Mahendra

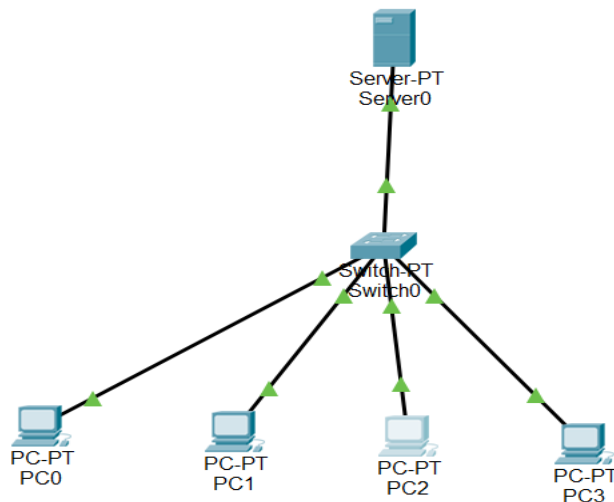
NIM : L200180083

Kelas : C

## MODUL 5

### Kegiatan Praktikum

#### 1. Praktikum 1 membuat DHCP SERVER



- Double-klik Server0. Pilih tab config. pada menu Interface, pilih Fast-Ethernet. Pada bagian IP Configuration, isikan dengan IP address server, dalam contoh ini 192.168.123.1 subnet mask 255.255.255.0.

The screenshot shows the configuration window for the FastEthernet0 interface. The left sidebar has tabs for GLOBAL, Settings, Algorithm Settings, and INTERFACE. The INTERFACE tab is selected, and FastEthernet0 is chosen. The main area shows the configuration for FastEthernet0. The Port Status is On. Bandwidth is 100 Mbps. Duplex is Full Duplex. MAC Address is 0001.C93B.5DD6. The IP Configuration section has Static selected, with IP Address 192.168.123.1 and Subnet Mask 255.255.255.0. The IPv6 Configuration section has Static selected, with IPv6 Address and Link Local Address fields.

Physical	Config	Services	Desktop	Programming	Attributes
<b>GLOBAL</b>					
Settings					
Algorithm Settings					
<b>INTERFACE</b>					
FastEthernet0					
FastEthernet0					
Port Status					
Bandwidth					
Duplex					
MAC Address					
IP Configuration					
IPv6 Configuration					

- b. Pilih DHCP, pastikan service DHCP On. Isikan IP address 192.168.123.19, dan pada maximum number of users = 5.

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP**
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

**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 Jse	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.16...	255.25...	5	0.0.0.0	0.0.0.0

- c. pada sisi semua client masuk ip configuration, pastikan pada pilihan radio button pada pilihan DHCP.

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: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:C7FF:FEE3:1AA6

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

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::2D0:58FF:FEA1:ED6A

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

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::2E0:8FFF:FE3C:814C

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Physical Config **Desktop** Programming Attributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☒ DHCP

☐ Static

IP Address192.168.123.22

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address /

Link Local AddressFE80::2D0:FFFF:FED0:87D

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

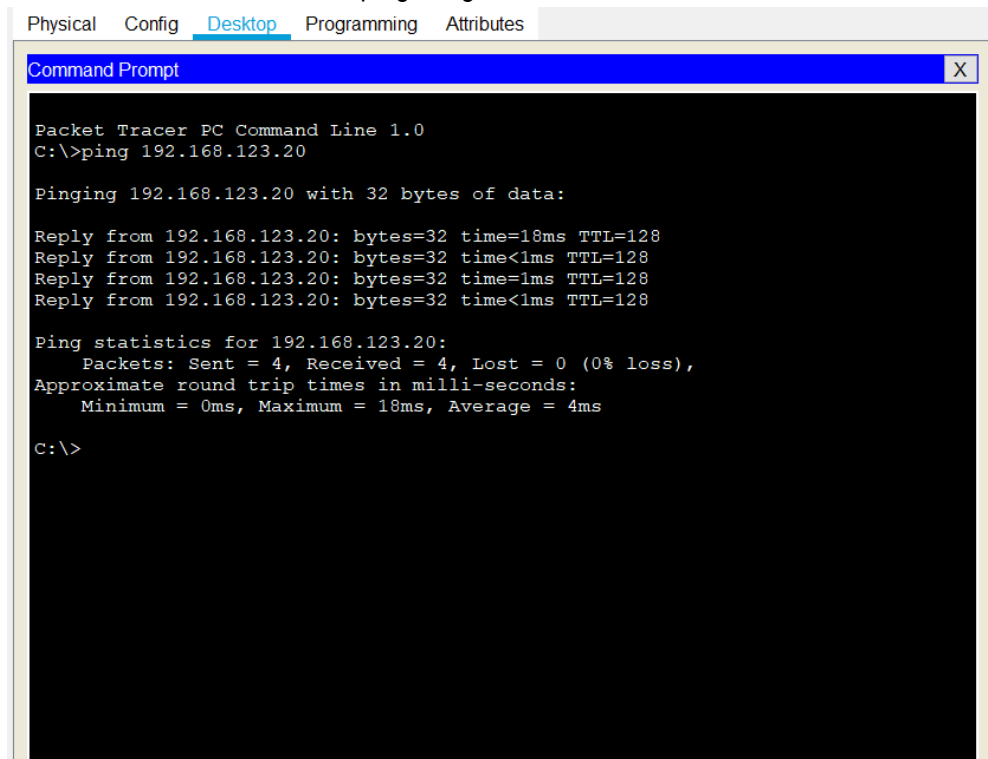
AuthenticationMD5

Username

Password

Top

d. Lalu lakukan ping dengan server



Physical Config Desktop Programming Attributes

Command Prompt X

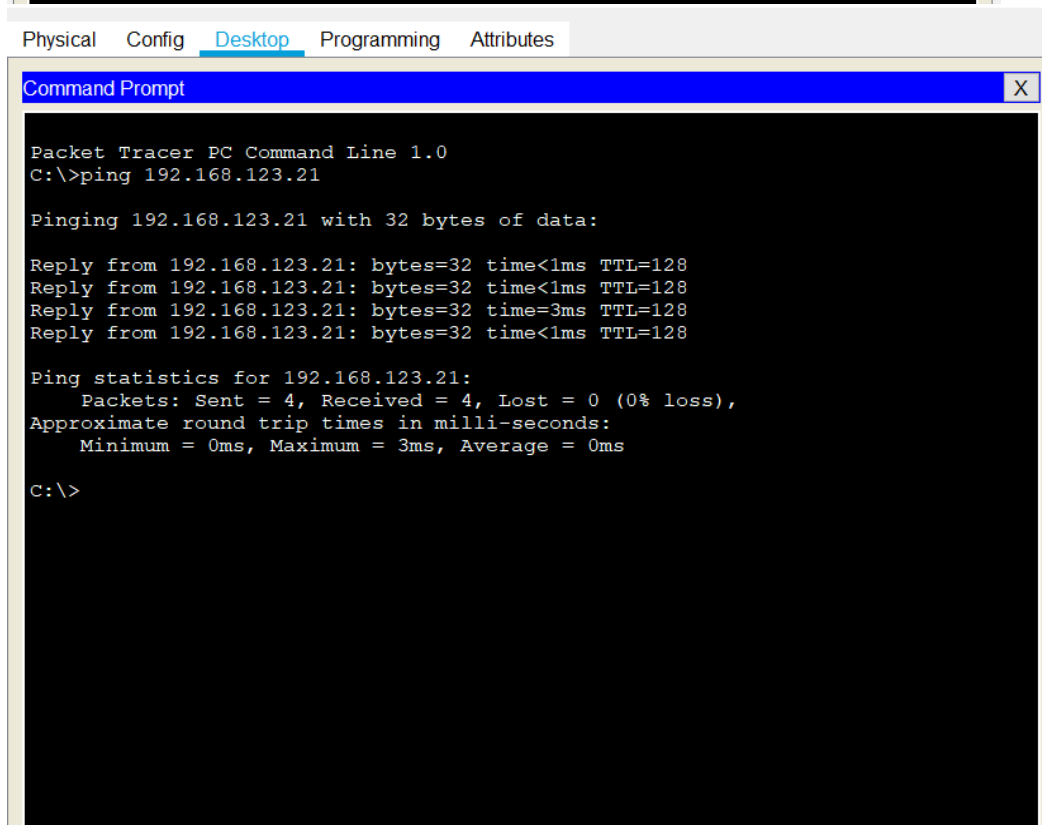
```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.20

Pinging 192.168.123.20 with 32 bytes of data:

Reply from 192.168.123.20: bytes=32 time=18ms 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 = 18ms, Average = 4ms

C:\>
```



Physical Config Desktop Programming Attributes

Command Prompt X

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.21

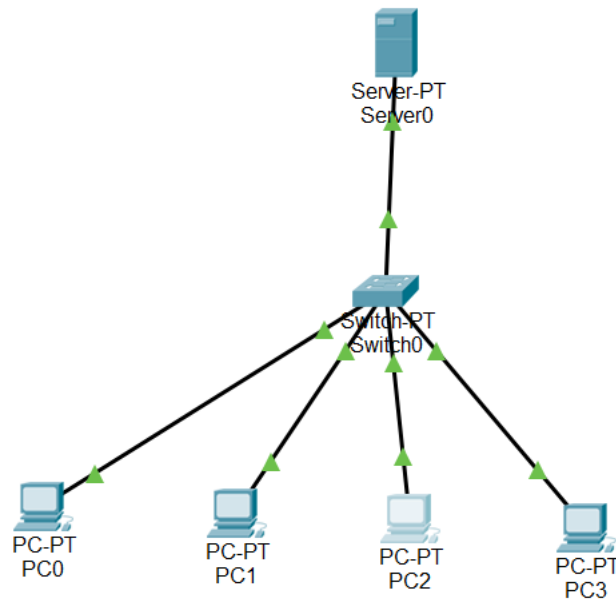
Pinging 192.168.123.21 with 32 bytes of data:

Reply from 192.168.123.21: bytes=32 time<1ms 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
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 = 3ms, Average = 0ms

C:\>
```

## 2. Praktikum 2 Membuat WEB SERVER



- pastikan rancangan sudah terseting seperti kegiatan 1
- lalu masuk ke server0, config services pilih http. pastikan radio button pada service http pada pilihan On

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA

HTTP

☒ On ☐ Off

HTTPS

☒ On ☐ Off

File Manager

File Name	Edit	Delete
-----------	------	--------

- lalu rubah index.html

Physical Config **Services** Desktop Programming Attributes

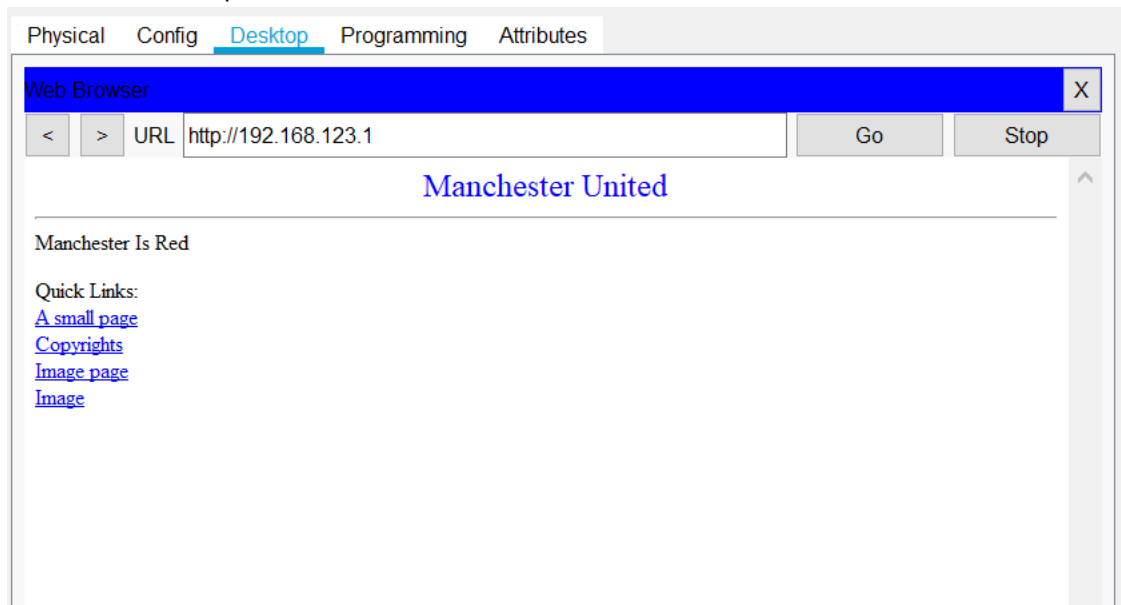
**SERVICES**

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

File Name:

```
<html>
<center><font size='+2' color='blue'>Manchester United</font></center>
<hr>Manchester Is Red
<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>
```

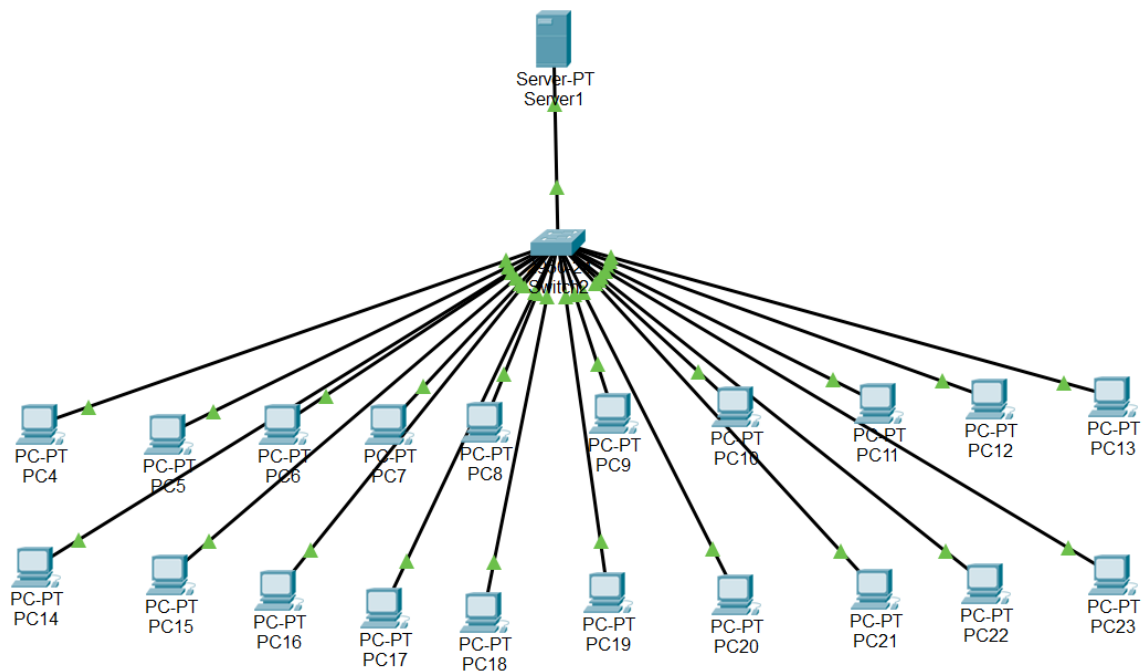
- d. melakukan browsing http. masuk pada pc0. pilih tab desktop. pada daftar menu pilih web browser. ketikkan ip address 192.168.123.1 di field url.



## TUGAS

### Pertama

#### 1. Rancangan DHCP Server



## 2. IP config server1 dan service DHCP On

Physical Config **Services** Desktop Programming Attributes

SERVICES	DHCP			
HTTP	Interface	FastEthernet0	Service	<input checked="" type="radio"/> On <input type="radio"/> Off
DHCP	Pool Name	serverPool		
DHCPv6	Default Gateway	0.0.0.0		
TFTP	DNS Server	0.0.0.0		
DNS	Start IP Address :	192	168	7
SYSLOG	Subnet Mask:	255	255	255
AAA	Maximum Number of Users :	31		
NTP	TFTP Server:	0.0.0.0		
EMAIL	WLC Address:	0.0.0.0		
FTP				
IoT				
VM Management				

## 3. Tes ping

Physical Config **Desktop** Programming Attributes

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.7.12

Pinging 192.168.7.12 with 32 bytes of data:

Reply from 192.168.7.12: bytes=32 time=1ms TTL=128
Reply from 192.168.7.12: bytes=32 time<1ms TTL=128
Reply from 192.168.7.12: bytes=32 time<1ms TTL=128
Reply from 192.168.7.12: bytes=32 time=5ms TTL=128

Ping statistics for 192.168.7.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\>
```



## Kedua

The image shows two screenshots from the MikroTik WinBox interface. The top screenshot displays the 'Services' configuration tab. On the left, a list of services is shown, with 'HTTP' selected. The 'File Name' field is set to 'index.html'. The main area contains the following HTML code:

```
<html>
<center><font size='+2' color='blue'>Data Diri</font></center>
<hr>Selamat Datang
<p>Nama : Rifqi Aditya Mahendra
<p>NIM : L200180083
<p>Alamat : KUDUS
<p>Jurusan : Informatika
<p>Jenis Kelamin : Laki-laki
</html>
```

The bottom screenshot shows a 'Web Browser' window. The address bar contains 'http://192.168.123.1'. The page content displays the rendered HTML from the configuration above, featuring a blue title 'Data Diri', a horizontal line, and the following text:

Selamat Datang

Nama : Rifqi Aditya Mahendra

NIM : L200180083

Alamat : KUDUS

Jurusan : Informatika

Jenis Kelamin : Laki-laki