

Nama : Aditya Dicky K

NIM : L200180154

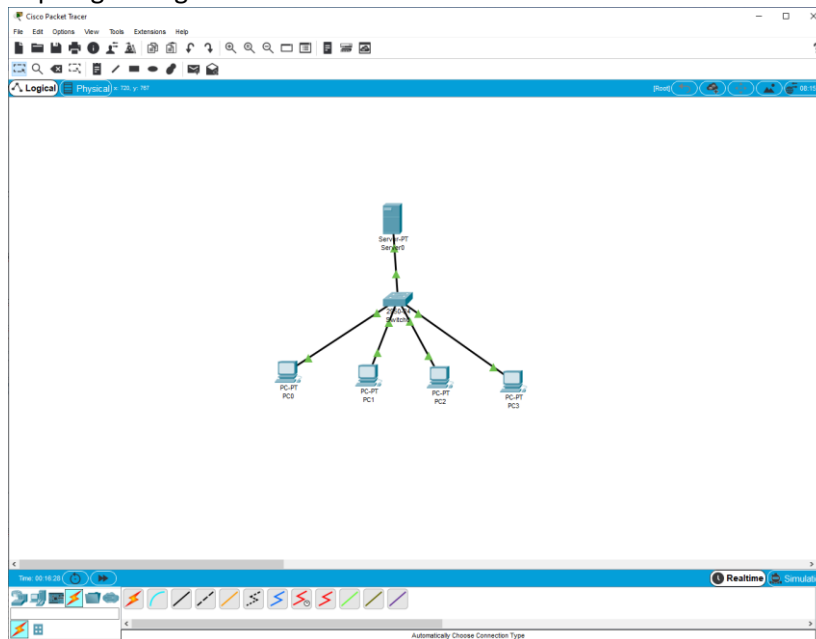
Kelas : D

## Laporan Praktikum Jarkom Modul 5

### Kegiatan Modul 5

#### Praktikum 1 Membuat DHCP Server

##### 1. Topologi Jaringan



##### 2. Mengisi IP Address dan subnet mask pada server

The screenshot shows the configuration window for Server0. The 'Config' tab is selected. Under the 'INTERFACE' section, 'FastEthernet0' is selected. The configuration for 'FastEthernet0' is as follows:

Property	Value
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0001.962A.49B2
IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static	
IP Address	192.168.123.1
Subnet Mask	255.255.255.0
IPv6 Configuration	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::201:96FF:FE2A:49B2

### 3. Mengaktifkan dan mengatur konfigurasi DHCP server

The screenshot shows the 'Services' tab for 'Server0'. The 'DHCP' service is selected in the left sidebar. The main configuration area shows the 'FastEthernet0' interface with the DHCP service turned 'On'. The 'serverPool' is configured with a start IP of 192.168.123.19, a subnet mask of 255.255.255.0, and a maximum of 5 users. The 'Add' button is visible, and a table below shows the configured pool.

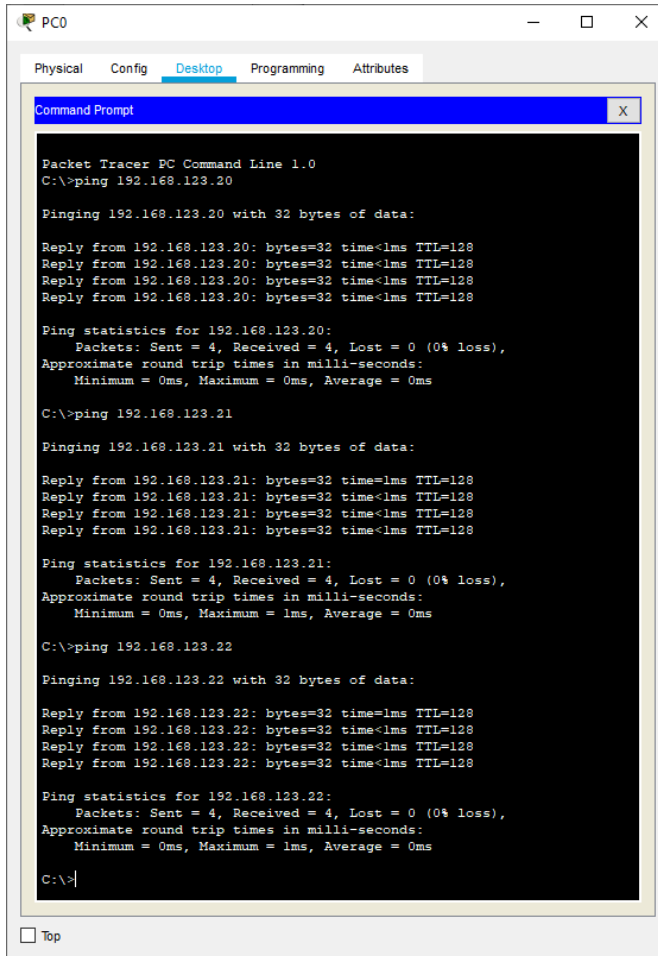
Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123.19	255.255.255.0	5	0.0.0.0	0.0.0.0

### 4. Mengatur IP Address pada PC

The screenshots show the 'IP Configuration' window for four PCs. Each PC has its 'FastEthernet0' interface configured with DHCP. The IP addresses assigned are 192.168.123.19 for PC0, 192.168.123.20 for PC1, 192.168.123.21 for PC2, and 192.168.123.22 for PC3. All PCs have a subnet mask of 255.255.255.0 and a default gateway of 0.0.0.0. The IPv6 configuration is set to 'Static' for all PCs.

PC	Interface	IP Address	Subnet Mask	Default Gateway	DNS Server
PC0	FastEthernet0	192.168.123.19	255.255.255.0	0.0.0.0	0.0.0.0
PC1	FastEthernet0	192.168.123.20	255.255.255.0	0.0.0.0	0.0.0.0
PC2	FastEthernet0	192.168.123.21	255.255.255.0	0.0.0.0	0.0.0.0
PC3	FastEthernet0	192.168.123.22	255.255.255.0	0.0.0.0	0.0.0.0

## 5. Melakukan ping



```
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<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 = 0ms, 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

C:\>ping 192.168.123.22

Pinging 192.168.123.22 with 32 bytes of data:

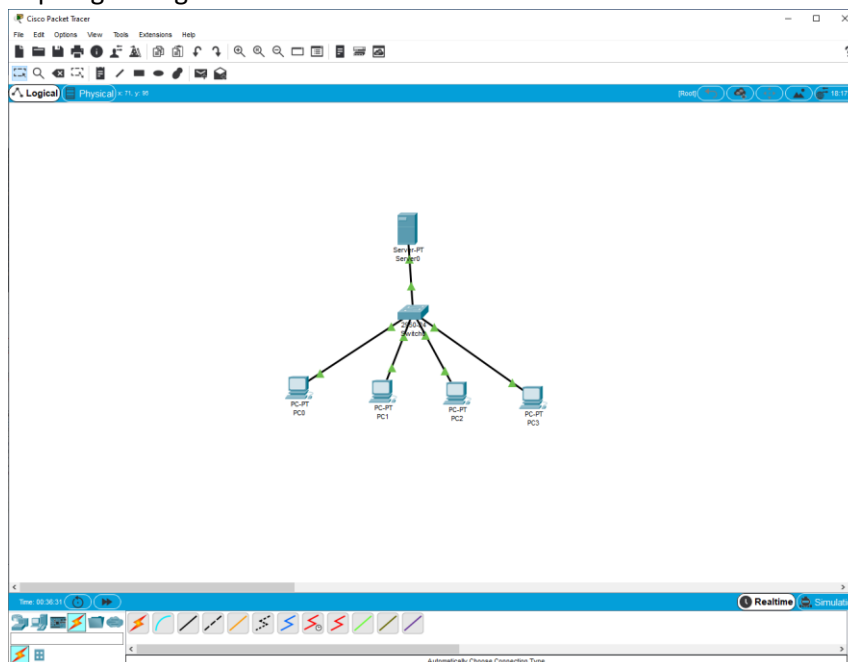
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128

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 = 1ms, Average = 0ms

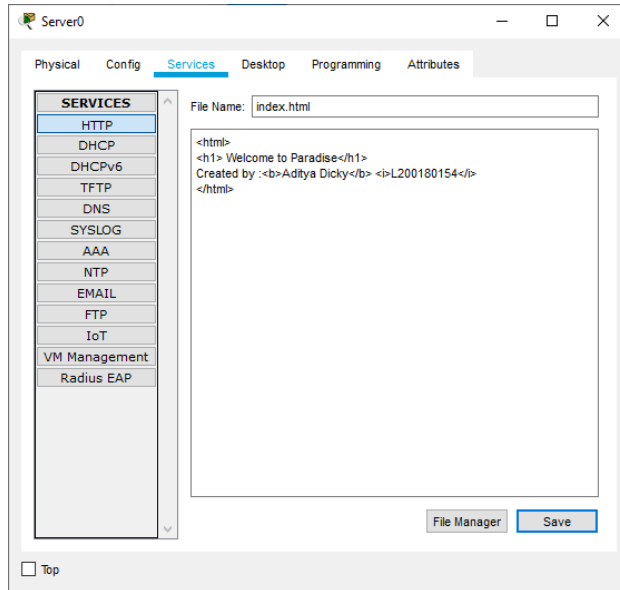
C:\>|
```

## Praktikum 2 Membuat Web Server

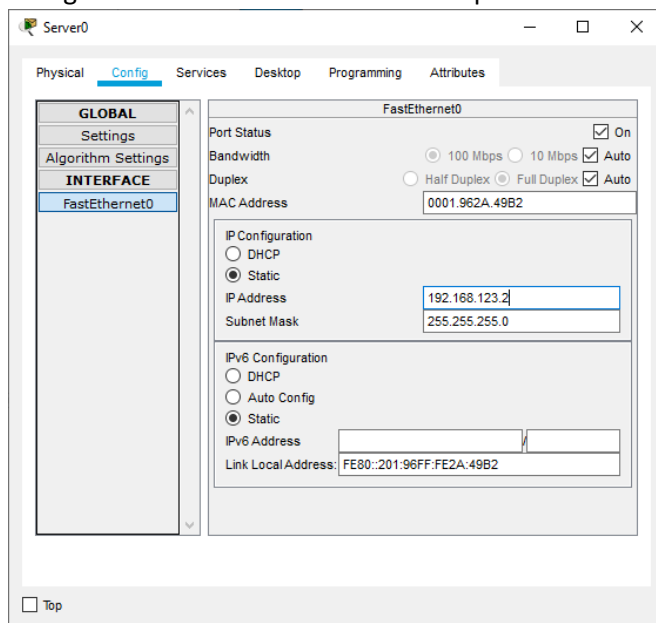
### 1. Topologi Jaringan



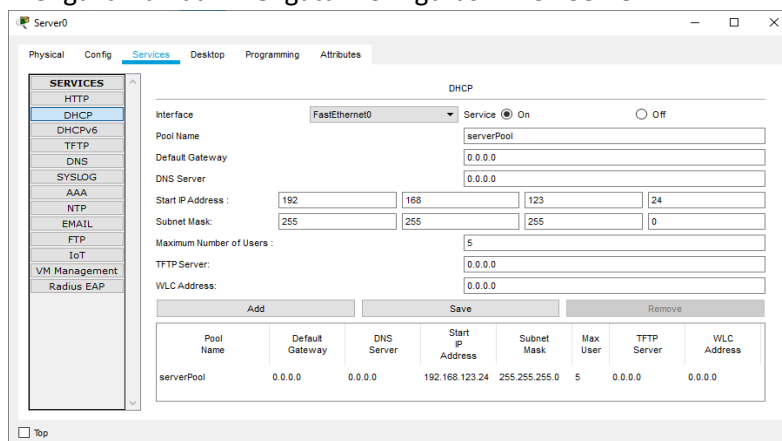
## 2. Mengedit index.html



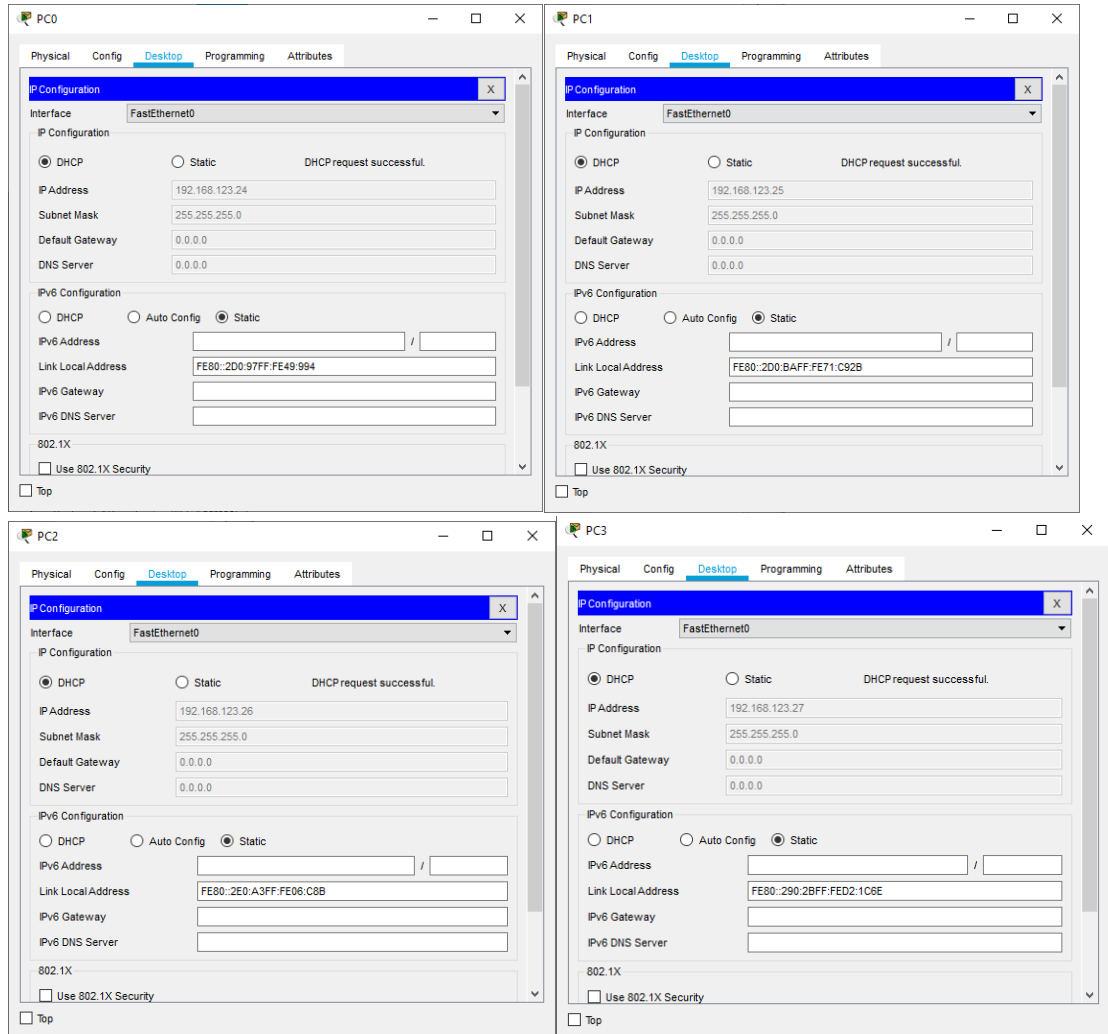
## 3. Mengatur IP Address dan subnet mask pada server



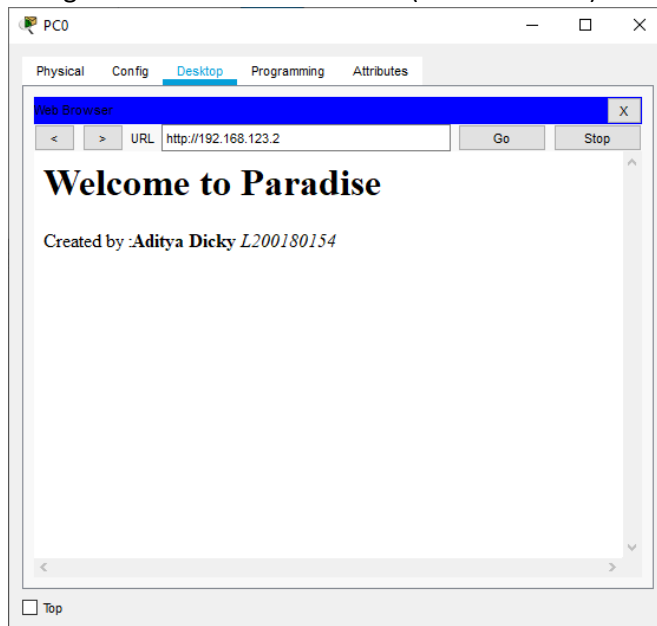
## 4. Mengaktifkan dan mengatur konfigurasi DHCP Server



## 5. Mengatur IP Address pada PC

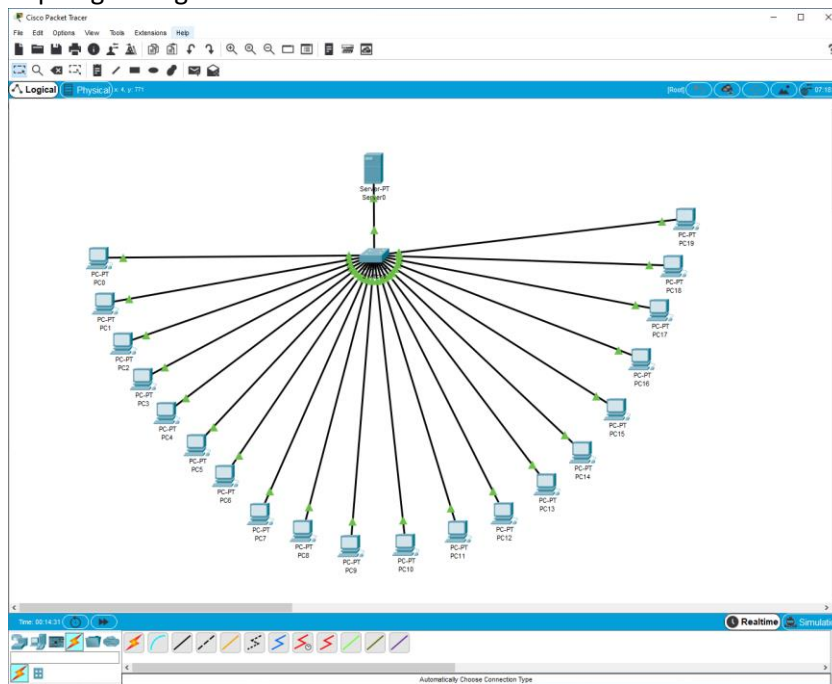


## 6. Mengetik IP Address server HTTP (192.168.123.2) di field URL



# Tugas

## 1. Topologi Jaringan



## 2. Mengatur IP Address dan subnet mask pada server

The screenshot shows the configuration window for 'Server0' in Cisco Packet Tracer. The 'Config' tab is selected. On the left, the 'INTERFACE' section is expanded, showing 'FastEthernet0'. The main configuration area for 'FastEthernet0' is displayed on the right. The 'Port Status' is 'On'. The 'Bandwidth' is set to '100 Mbps'. The 'Duplex' is set to 'Full Duplex'. The 'MAC Address' is '0001.6331.A58C'. The 'IP Configuration' is set to 'Static', with the 'IP Address' '192.168.123.11' and 'Subnet Mask' '255.255.255.0'. The 'IPv6 Configuration' is also set to 'Static', with the 'IPv6 Address' field empty and the 'Link Local Address' 'FE80::201:63FF:FE31:A58C'.

### 3. Mengaktifkan dan mengatur konfigurasi DHCP server

The screenshot shows the 'Services' tab for 'Server0'. The 'DHCP' service is selected and turned 'On'. The configuration fields are as follows:

- Interface: FastEthernet0
- Service: On
- Pool Name: serverPool
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- Start IP Address: 192.168.123.20
- Subnet Mask: 255.255.255.0
- Maximum Number of Users: 20
- TFTP Server: 0.0.0.0
- WLC Address: 0.0.0.0

Below the fields is a table summarizing the 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	192.168.123.20	255.255.255.0	20	0.0.0.0	0.0.0.0

### 4. Mengedit index.html

The screenshot shows the 'Services' tab for 'Server0'. The 'index.html' file is open for editing. The content of the file is:

```
<html>
Nama : Aditya Dicky K <br>
NIM : L200180154 <br>
Alamat : Surakarta <br>
Jurusan : Informatika <br>
Jenis : Reguler <br>
Jenis Kelamin : Laki-laki <br>
</html>
```

### 5. Mengetik IP Address server HTTP (192.168.123.11) di field URL

The screenshot shows a 'Web Browser' window in 'PC0'. The URL field contains 'http://192.168.123.11'. The browser has successfully fetched the content from the specified IP address, displaying the same text as seen in the previous screenshot:

Nama : Aditya Dicky K  
NIM : L200180154  
Alamat : Surakarta  
Jurusan : Informatika  
Jenis : Reguler  
Jenis Kelamin : Laki-laki