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NIM : L200180080

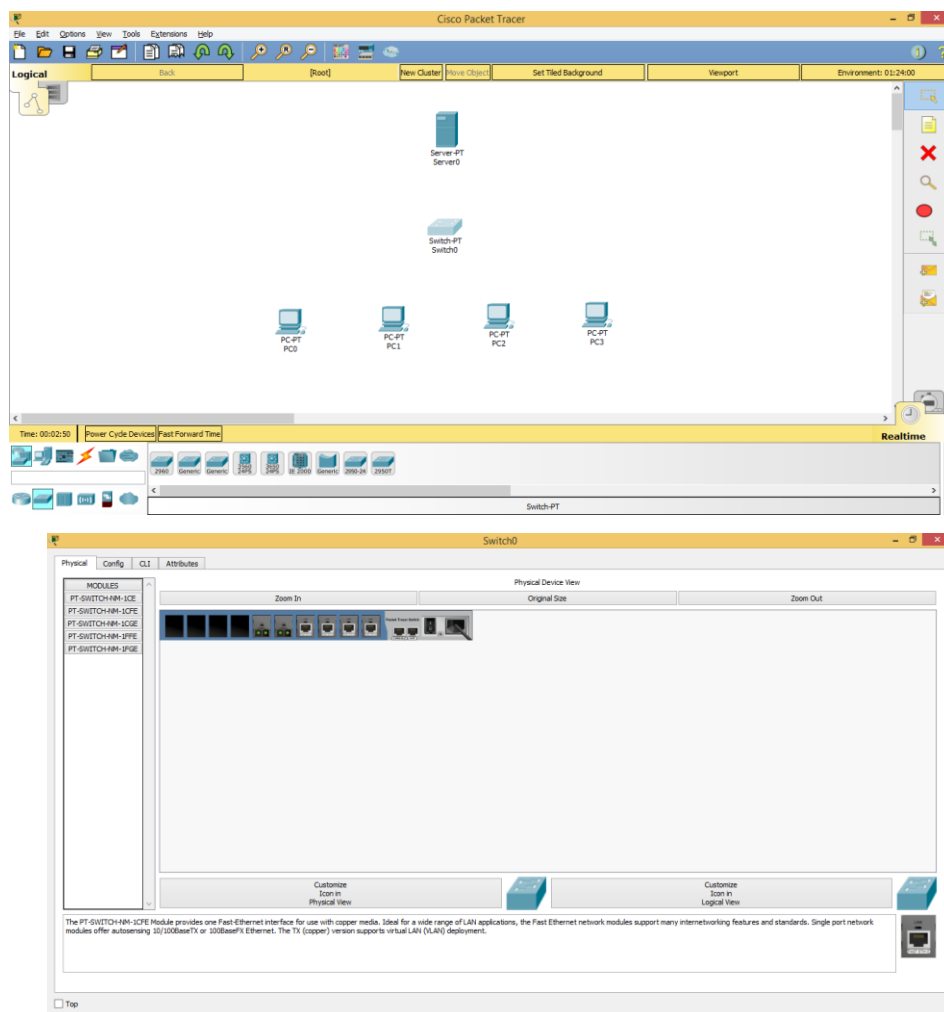
Kelas : B

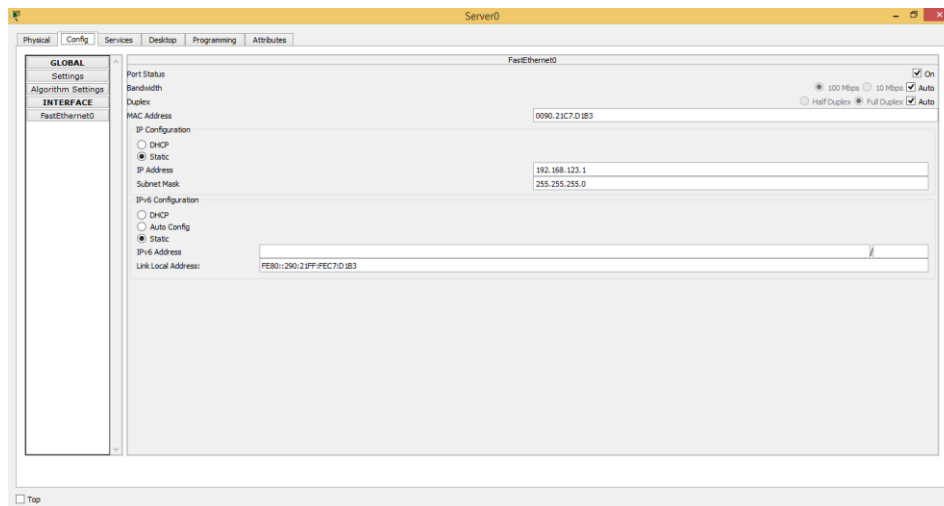
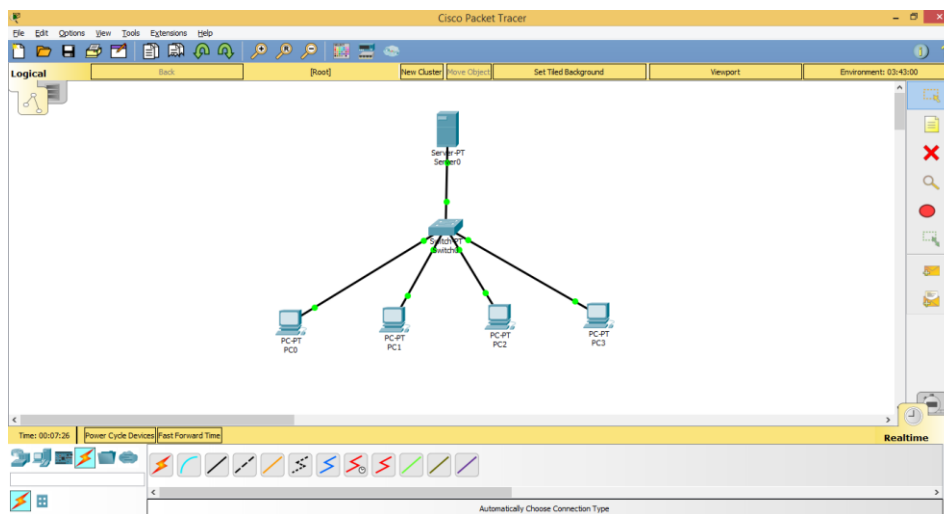
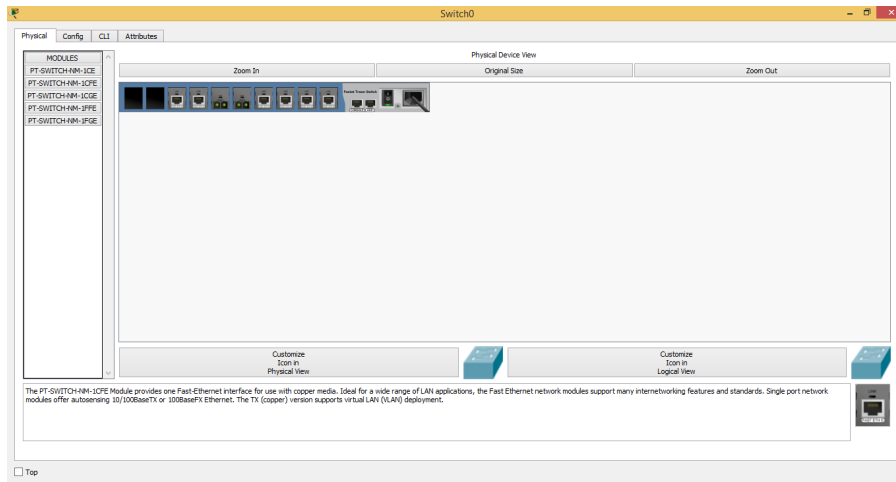
PRAKTIKUM JARINGAN KOMPUTER

MODUL 5

Kegiatan Praktikum

1. Praktikum 1 Membuat DHCP SERVER





Server0

Physical Config Services Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSDLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management

DHCP

Interface: **FastEthernet0** Service: ☒ On ☐ OFF

Pool Name: serverPool

Default Gateway: 192.168.123.1

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 User	TFTP Server	WLC Address
serverPool	192.168.123.1	0.0.0.0	192.168.123.19	255.255.255.0	5	0.0.0.0	0.0.0.0

Top

■ PC 0

PC0

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static DHCP request successful

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: FE80::202:3FFF:FE12:4B8C

IPv6 Local Address: FE80::202:3FFF:FE55:698E

IPv6 Gateway: FE80::202:3FFF:FE55:698E

IPv6 DNS Server: FE80::202:3FFF:FE55:698E

Top

■ PC 1

PC1

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static DHCP request successful

IP Address: 192.168.123.20

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: FE80::202:3FFF:FE55:698E

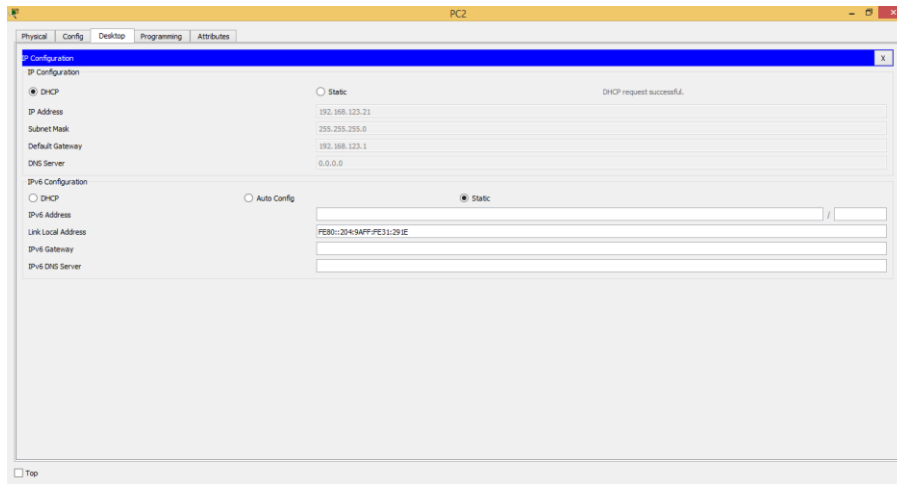
IPv6 Local Address: FE80::202:3FFF:FE55:698E

IPv6 Gateway: FE80::202:3FFF:FE55:698E

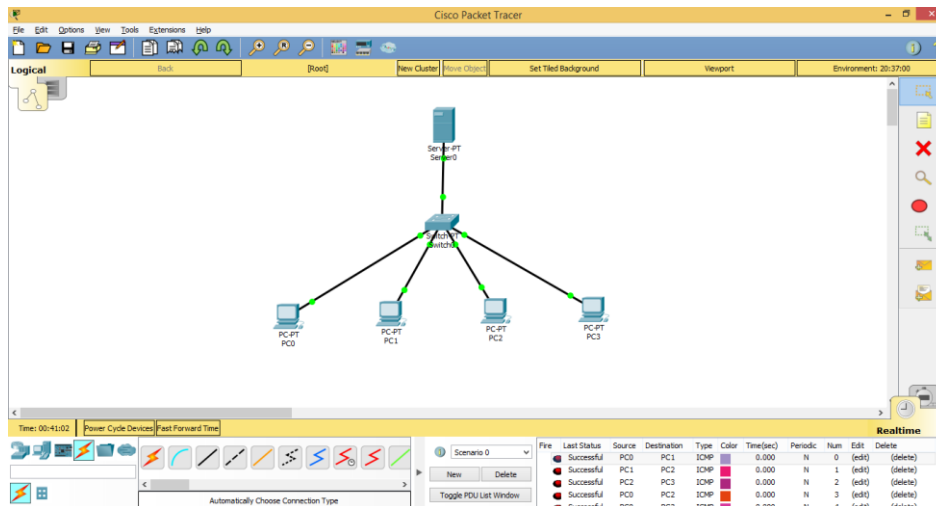
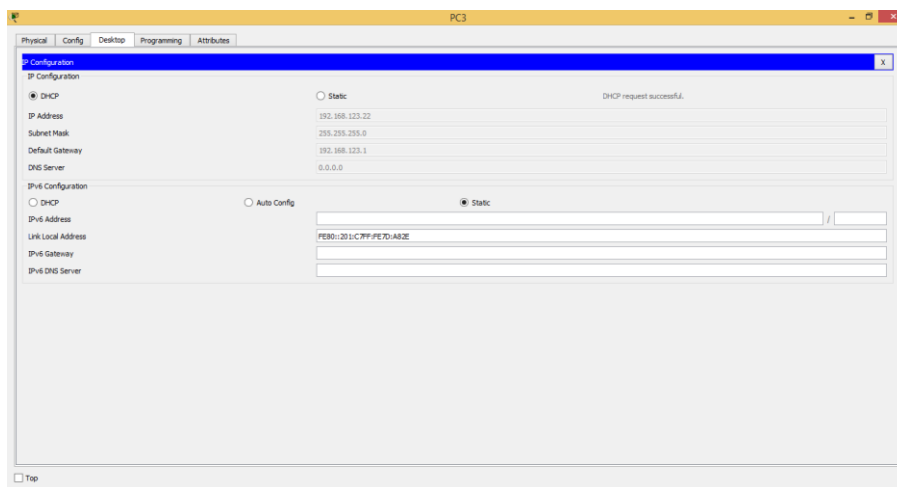
IPv6 DNS Server: FE80::202:3FFF:FE55:698E

Top

■ PC 2



■ PC 3



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=2ms TTL=128
Reply from 192.168.123.20: bytes=32 time=4ms TTL=128
Reply from 192.168.123.20: bytes=32 time=7ms 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 = 7ms, Average = 3ms

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=10ms 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 = 10ms, Average = 3ms

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=5ms TTL=128
Reply from 192.168.123.22: bytes=32 time=15ms TTL=128
Reply from 192.168.123.22: bytes=32 time=10ms TTL=128
Reply from 192.168.123.22: bytes=32 time=15ms 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 = 5ms, Maximum = 15ms, Average = 10ms
```

☐ Top

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.19

Pinging 192.168.123.19 with 32 bytes of data:

Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.123.19:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 3ms

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=15ms 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 = 15ms, Average = 3ms

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=5ms TTL=128
Reply from 192.168.123.22: bytes=32 time=1ms TTL=128
Reply from 192.168.123.22: bytes=32 time=5ms 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 = 1ms, Maximum = 5ms, Average = 3ms
```

☐ Top

PC2

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.19

Pinging 192.168.123.19 with 32 bytes of data:

Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time=6ms TTL=128
Reply from 192.168.123.19: bytes=32 time=6ms TTL=128
Reply from 192.168.123.19: bytes=32 time=6ms TTL=128

Ping statistics for 192.168.123.19:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 6ms, Average = 2ms

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=4ms TTL=128
Reply from 192.168.123.20: bytes=32 time=7ms TTL=128
Reply from 192.168.123.20: bytes=32 time=10ms 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 = 1ms, Maximum = 10ms, Average = 3ms

C:\>ping 192.168.123.22

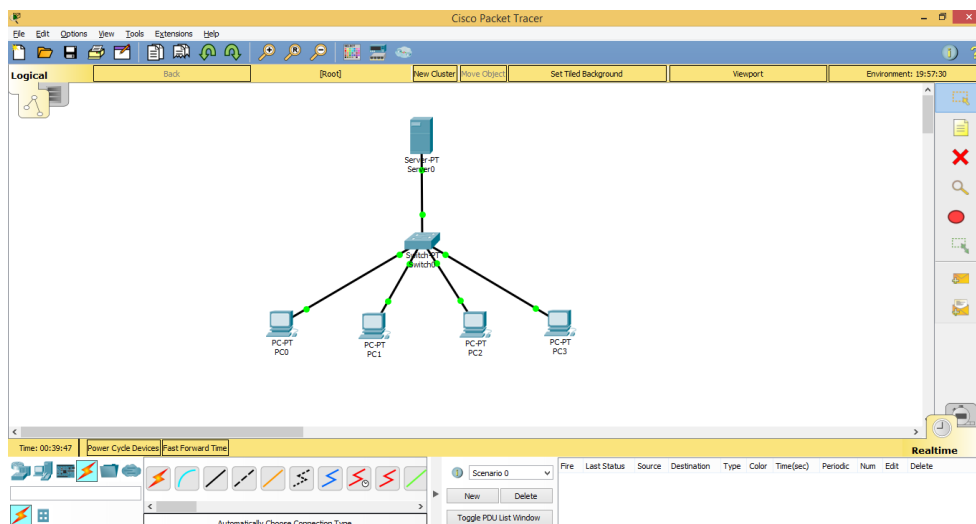
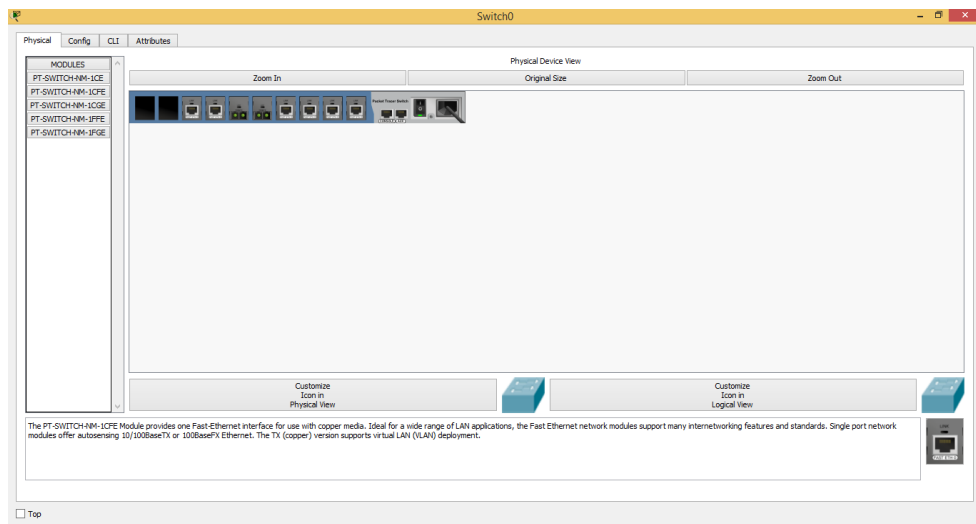
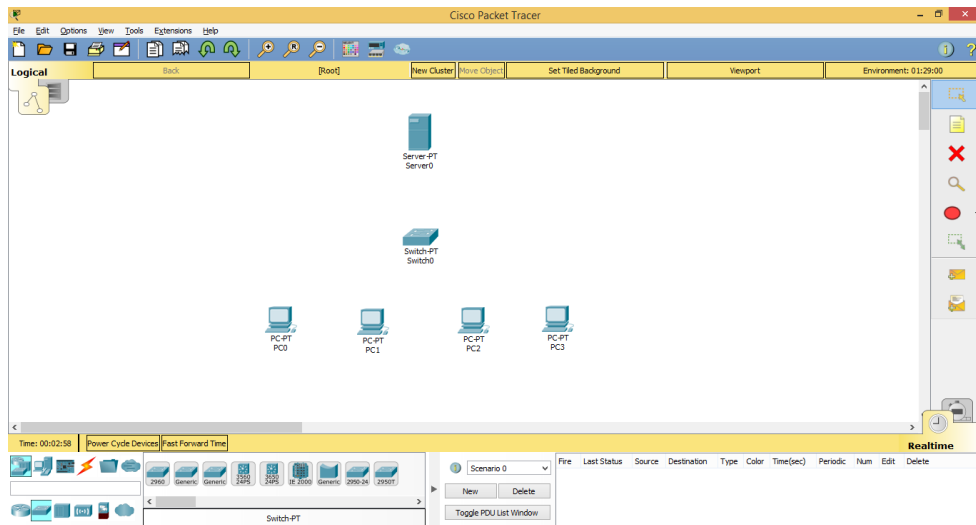
Pinging 192.168.123.22 with 32 bytes of data:

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=15ms 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 = 1ms, Maximum = 15ms, Average = 10ms
```

☐ Top

2. Praktikum 2 Membuat Web Server



Server0

Physical Config Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 0002.17EA.2A17

IP Configuration

☐ DHCP

☒ Static

IP Address: 192.168.1.2

Subnet Mask: 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address:

Link Local Address: FE80::202:17FF:FEAA:2A17

☐ Top

Server0

Physical Config Services Desktop Programming Attributes

SERVICES

HTTP

HTTP: ☒ On ☐ Off

HTTPS: ☒ On ☐ Off

File Manager

File Name	Edit	Delete
1 copyrights.html	(edit)	(delete)
2 ciscoflag177x111.jpg		(delete)
3 helloworld.html	(edit)	(delete)
4 image.html	(edit)	(delete)
5 index.html	(edit)	(delete)

☐ Top

Server0

Physical Config Services Desktop Programming Attributes

SERVICES

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.2

Start IP Address: 192 168 1 50

Subnet Mask: 255 255 255 0

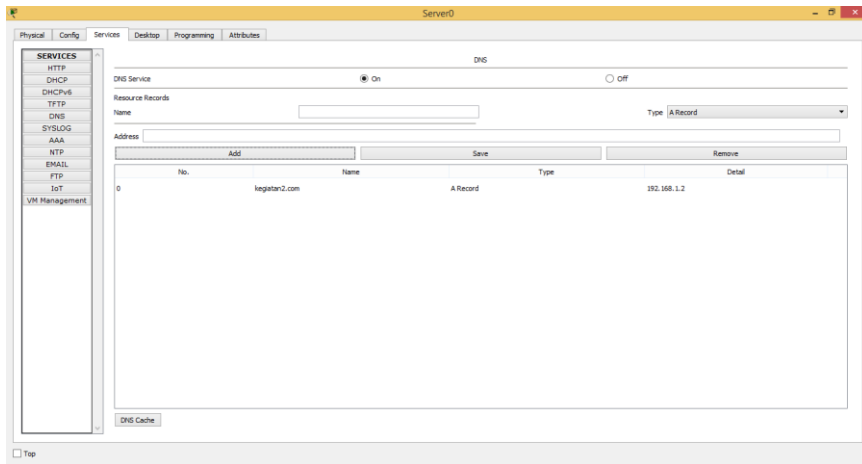
Maximum Number of Users: 206

TFTP Server: 0.0.0.0

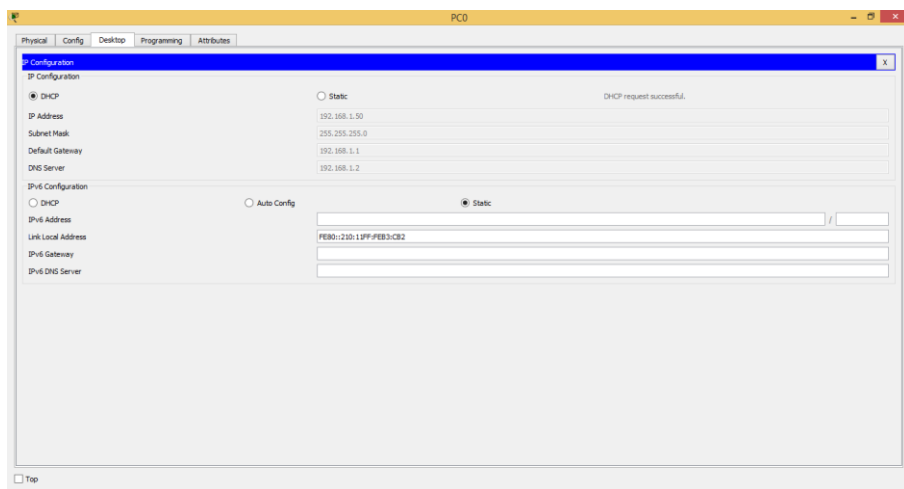
WLC Address: 0.0.0.0

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.1.1	192.168.1.2	192.168.1.50	255.255.255.0	206	0.0.0.0	0.0.0.0

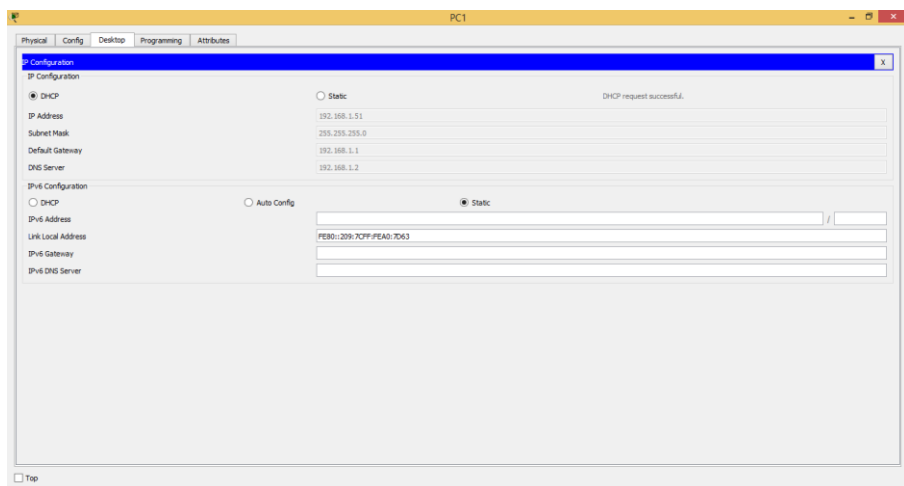
☐ Top



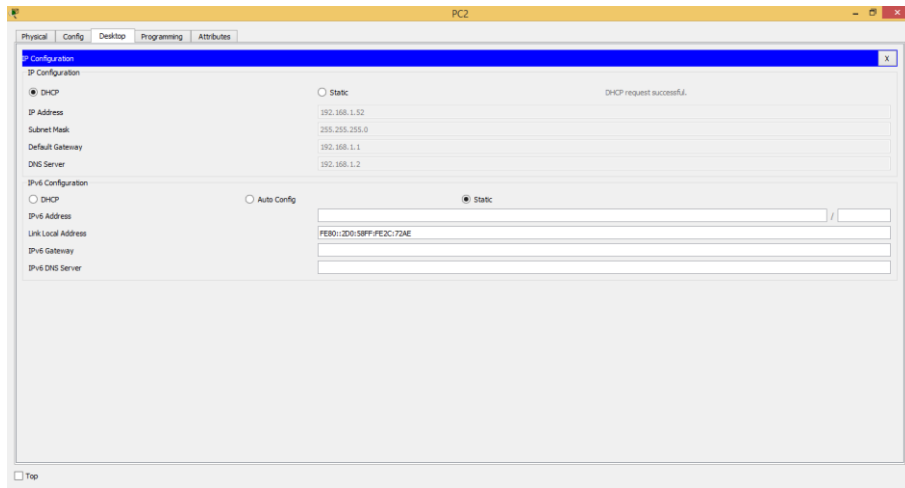
■ PC0



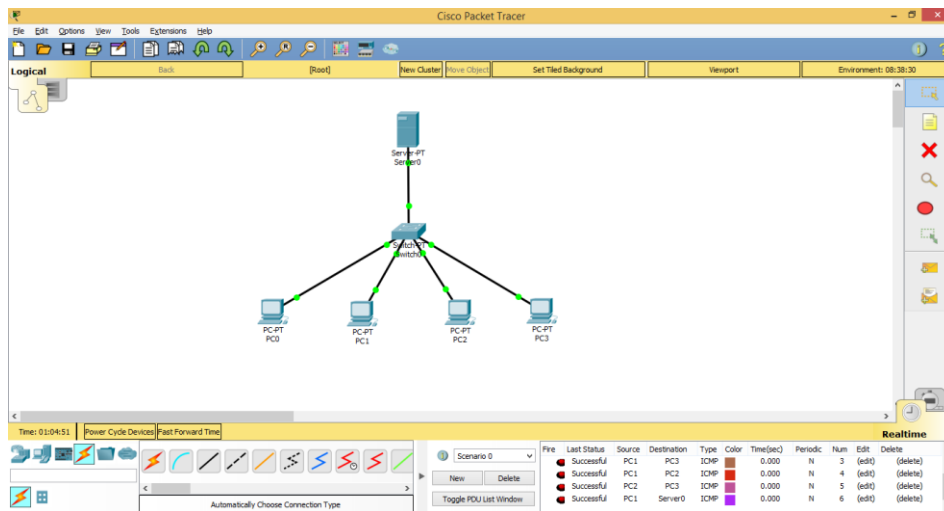
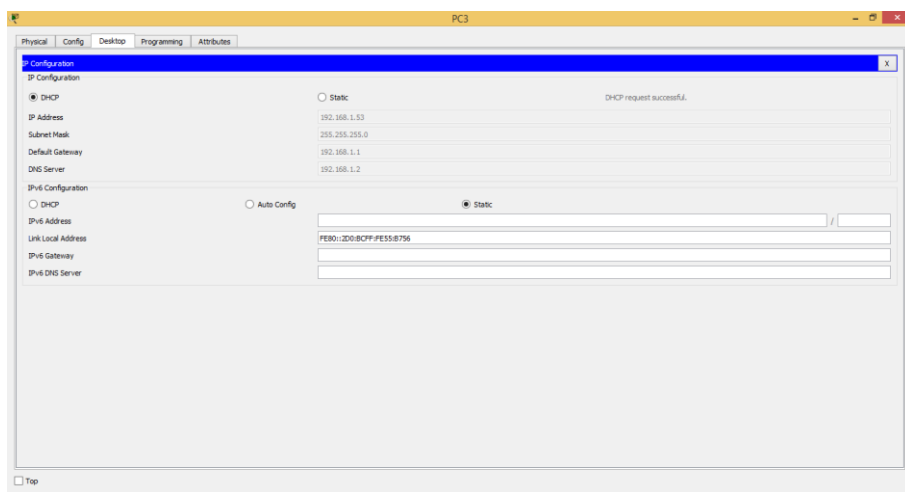
■ PC1



■ PC2



■ PC3



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 192.168.1.51 with 32 bytes of data:
Reply from 192.168.1.51: bytes=32 time=1ms TTL=128
Reply from 192.168.1.51: bytes=32 time=0ms TTL=128
Reply from 192.168.1.51: bytes=32 time=1ms TTL=128
Reply from 192.168.1.51: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.51:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 20ms, Average = 10ms

C:\>ping 192.168.1.52

Pinging 192.168.1.52 with 32 bytes of data:
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128
Reply from 192.168.1.52: bytes=32 time=0ms TTL=128
Reply from 192.168.1.52: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.1.52:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 20ms, Average = 11ms

C:\>ping 192.168.1.53

Pinging 192.168.1.53 with 32 bytes of data:
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.53:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 19ms, Average = 12ms

C:\>
```

☐ Top

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Jacket Tracer PC Command Line 1.0
C:\>ping 192.168.1.52

Pinging 192.168.1.52 with 32 bytes of data:
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.52:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 21ms, Average = 15ms

C:\>ping 192.168.1.53

Pinging 192.168.1.53 with 32 bytes of data:
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.53:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 23ms, Average = 10ms

C:\>
```

☐ Top

PC2

Physical Config Desktop Programming Attributes

Command Prompt

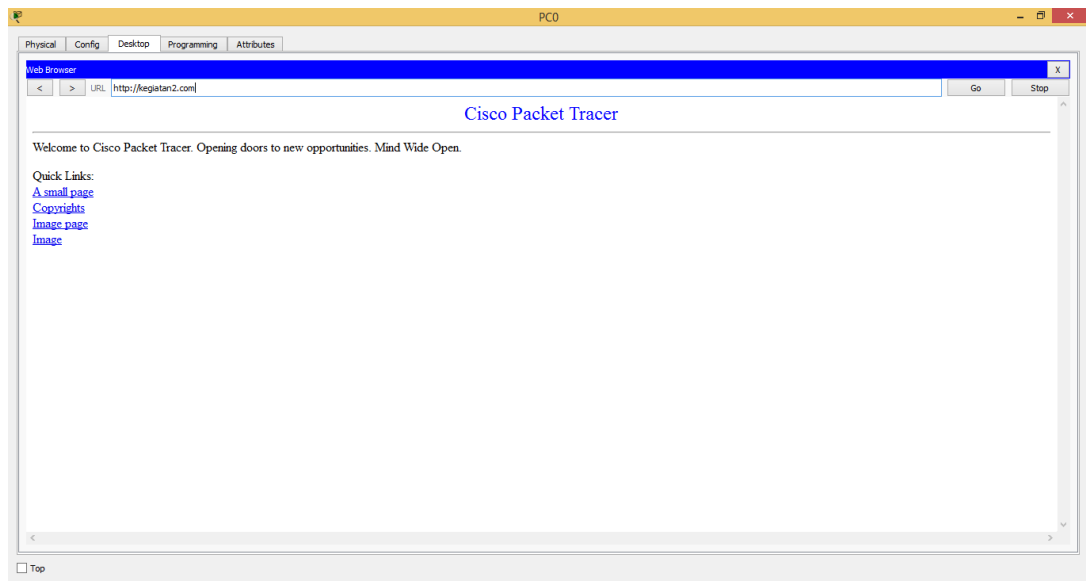
```
Jacket Tracer PC Command Line 1.0
C:\>ping 192.168.1.53

Pinging 192.168.1.53 with 32 bytes of data:
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.1.53:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 20ms, Average = 14ms

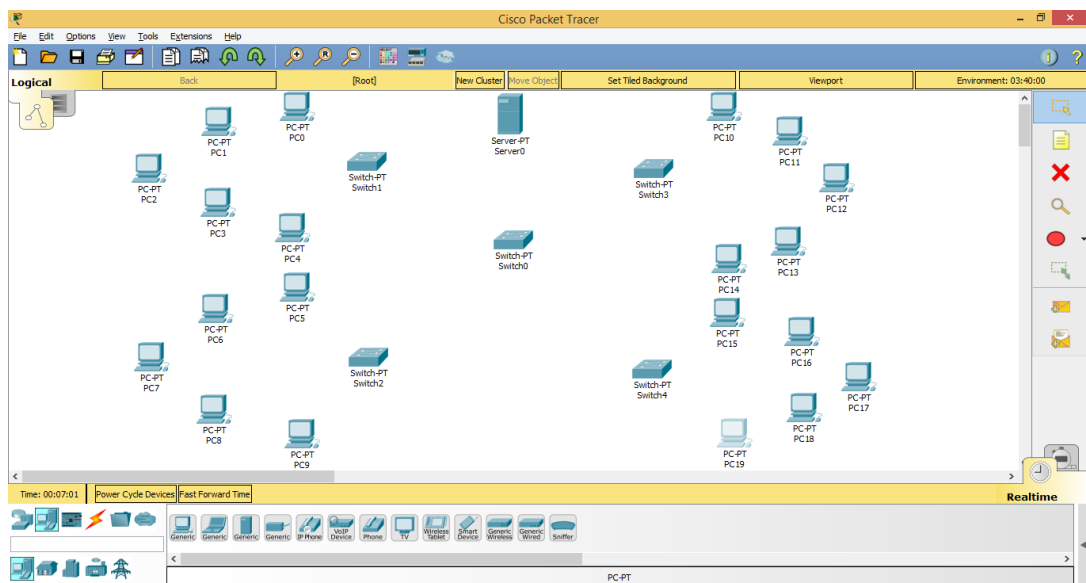
C:\>
```

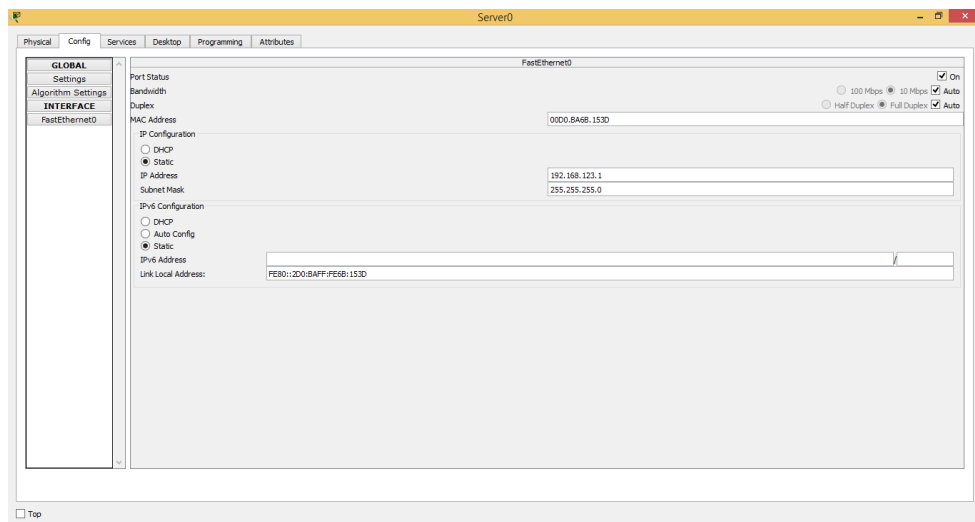
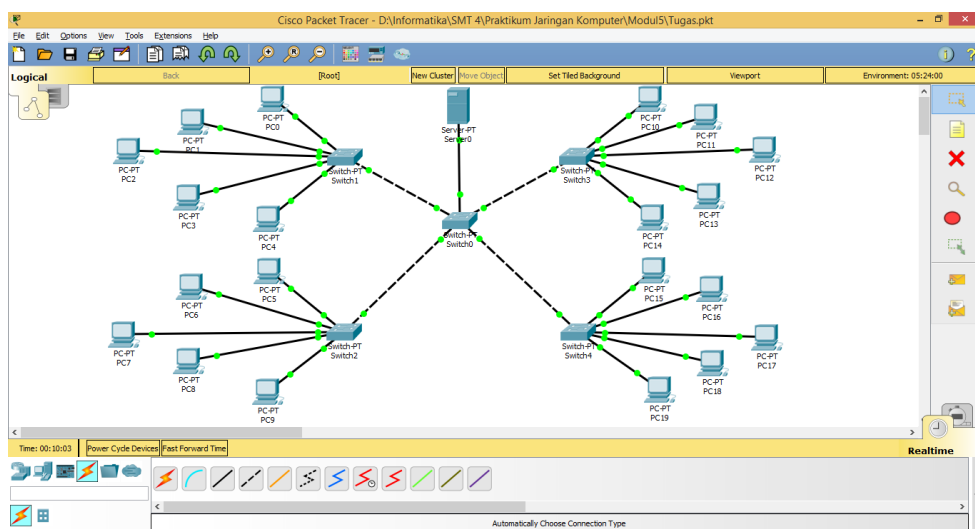
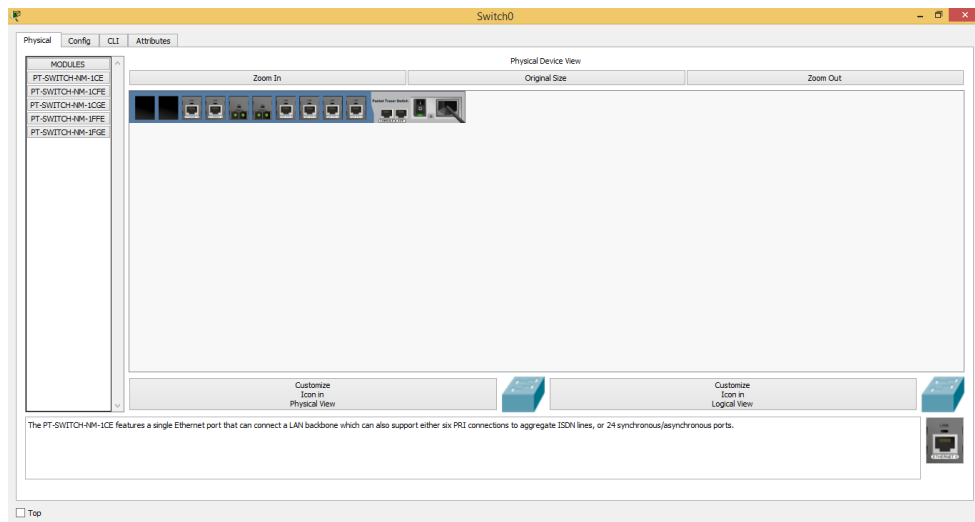
☐ Top



Tugas

1. Buatlah DHCP Server dengan packet tracer dengan client terdiri dari 20 PC!





Server0

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTPDHCPDHCPv6TFTPDNSSYSLOGAAAFTPNTPEMAILIoTVM Management

InterfaceFastEthernet0

ServiceOnOff

Pool NameserverPool

Default Gateway192.168.123.1

DNS Server0.0.0.0

Start IP Address :19216812319

Subnet Mask:2552552550

Maximum Number of Users :20

TFTP Server:0.0.0.0

WLC Address:0.0.0.0

AddSaveRemove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.123.1	0.0.0.0	192.168.123.19	255.255.255.0	20	0.0.0.0	0.0.0.0

Top

PC0

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

IP Configuration

IP Configuration

StaticDHCP

DHCP request successful.

IP Address192.168.123.19

Subnet Mask255.255.255.0

Default Gateway192.168.123.1

DNS Server0.0.0.0

IPv6 Configuration

StaticAuto ConfigDHCP

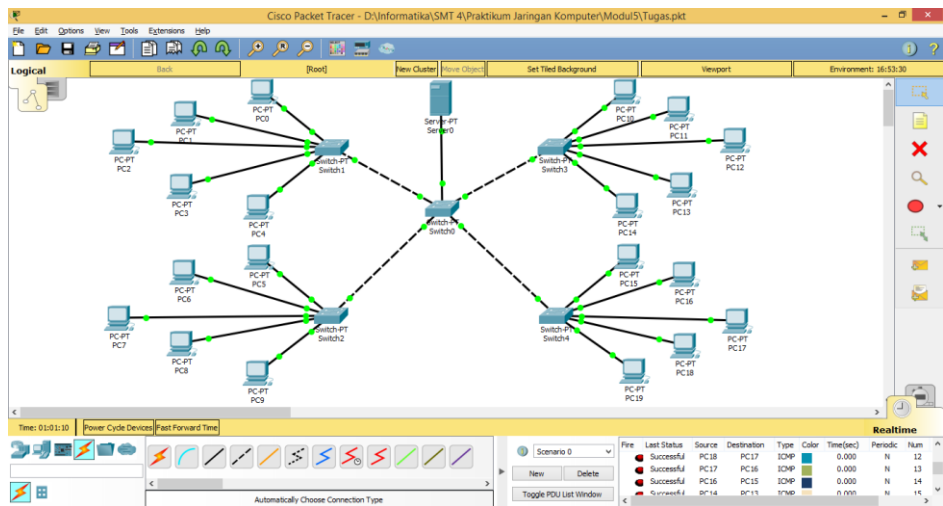
IPv6 Address

Link Local AddressFE80::20C:FFFF:FE2A:7760

IPv6 Gateway

IPv6 DNS Server

Top



```

Physical Config Desktop Programming Attributes
Command Prompt
Pinging 192.168.123.21 with 32 bytes of data:
Reply from 192.168.123.21: bytes=32 time=31ms TTL=128
Reply from 192.168.123.21: bytes=32 time=31ms TTL=128
Reply from 192.168.123.21: bytes=32 time=4ms TTL=128
Reply from 192.168.123.21: bytes=32 time=7ms 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 = 4ms, Maximum = 31ms, Average = 16ms
C:\>ping 192.168.123.25

Pinging 192.168.123.25 with 32 bytes of data:
Reply from 192.168.123.25: bytes=32 time=67ms TTL=128
Reply from 192.168.123.25: bytes=32 time=24ms TTL=128
Reply from 192.168.123.25: bytes=32 time=33ms TTL=128
Reply from 192.168.123.25: bytes=32 time=22ms TTL=128
Ping statistics for 192.168.123.25:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 19ms, Maximum = 67ms, Average = 31ms
C:\>ping 192.168.123.32

Pinging 192.168.123.32 with 32 bytes of data:
Reply from 192.168.123.32: bytes=32 time=34ms TTL=128
Reply from 192.168.123.32: bytes=32 time=31ms TTL=128
Reply from 192.168.123.32: bytes=32 time=1ms TTL=128
Reply from 192.168.123.32: bytes=32 time=1ms TTL=128
Ping statistics for 192.168.123.32:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 34ms, Average = 20ms
C:\>ping 192.168.123.33
  
```

```

Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.19

Pinging 192.168.123.19 with 32 bytes of data:
Reply from 192.168.123.19: bytes=32 time=28ms TTL=128
Reply from 192.168.123.19: bytes=32 time=22ms TTL=128
Reply from 192.168.123.19: bytes=32 time=6ms TTL=128
Reply from 192.168.123.19: bytes=32 time=28ms TTL=128
Ping statistics for 192.168.123.19:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Minimum = 16ms, Maximum = 28ms, Average = 22ms
C:\>ping 192.168.123.26

Pinging 192.168.123.26 with 32 bytes of data:
Reply from 192.168.123.26: bytes=32 time=62ms TTL=128
Reply from 192.168.123.26: bytes=32 time=33ms TTL=128
Reply from 192.168.123.26: bytes=32 time=18ms TTL=128
Reply from 192.168.123.26: bytes=32 time=19ms TTL=128
Ping statistics for 192.168.123.26:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Minimum = 19ms, Maximum = 62ms, Average = 28ms
C:\>ping 192.168.123.24

Pinging 192.168.123.24 with 32 bytes of data:
Reply from 192.168.123.24: bytes=32 time=77ms TTL=128
Reply from 192.168.123.24: bytes=32 time=4ms TTL=128
Reply from 192.168.123.24: bytes=32 time=3ms TTL=128
Reply from 192.168.123.24: bytes=32 time=11ms TTL=128
Ping statistics for 192.168.123.24:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
  
```

2. Buatlah web server pada packet tracer, dengan mengubah tampilan pada web tersebut dengan isi:

- Nama
- NIM
- Alamat
- Jurusan
- Jenis Kelamin

