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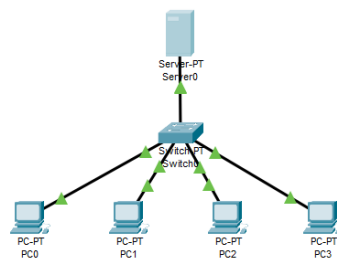
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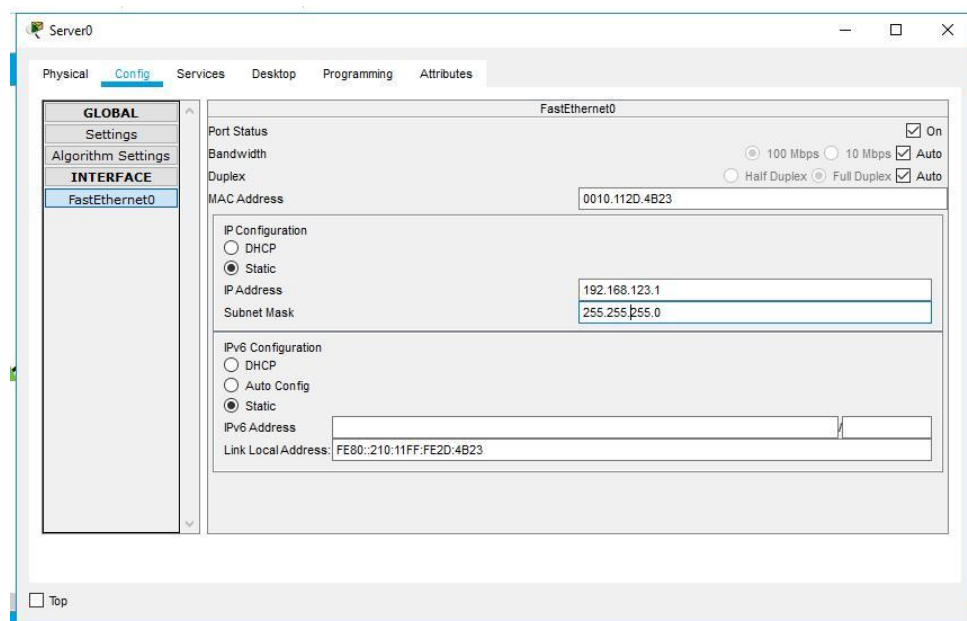
Modul 5

KEGIATAN PRAKTIKUM 1

Persiapan server DHCP dengan menggunakan 5 buah workstation, 1 switch, dan 1 server



Pada menu Interface, pilih Fast-ethernet. Pada bagian menu configuration, isikan dengan IP address 192.168.123.1 subnet mask 255.255.255.0



Untuk konfigurasi dhcp server pada jendela properties server 0 pada services, pilih DHCP. Pastikan service DHCP On. Isikan blok IP adress yang akan diberikan ke PC client. Konfigurasi di sisi client pastikan pilihan IP Configuration radio button DHCP

The screenshot shows the 'PC0' configuration window with the 'Desktop' tab selected. The 'DHCP' radio button is selected under the IP Configuration section. The 'DHCPrequest successful.' message is displayed. 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 shows 'Static' selected, with an empty IPv6 Address field, Link Local Address FE80::202:4AFF:FEB2:36D4, and empty IPv6 Gateway and IPv6 DNS Server fields. The 802.1X section shows 'Use 802.1X Security' unchecked, Authentication set to 'MD5', and empty Username and Password fields. A 'Top' button is at the bottom left.

Field	Value
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 Address	
Link Local Address	FE80::202:4AFF:FEB2:36D4
IPv6 Gateway	
IPv6 DNS Server	
Authentication	MD5
Username	
Password	

The screenshot shows the 'PC1' configuration window with the 'Desktop' tab selected. The 'DHCP' radio button is selected under the IP Configuration section. The 'DHCPrequest successful.' message is displayed. The IP Address is 192.168.123.20, 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 shows 'Static' selected, with an empty IPv6 Address field, Link Local Address FE80::240:BFF:FE25:9D9D, and empty IPv6 Gateway and IPv6 DNS Server fields. The 802.1X section shows 'Use 802.1X Security' unchecked, Authentication set to 'MD5', and empty Username and Password fields. A 'Top' button is at the bottom left.

Field	Value
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 Address	
Link Local Address	FE80::240:BFF:FE25:9D9D
IPv6 Gateway	
IPv6 DNS Server	
Authentication	MD5
Username	
Password	

PC2

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static DHCP request successful.

IP Address 192.168.123.21

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::2E0:F7FF:FE89:4475

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC3

Physical Config **Desktop** Programming Attributes

☒ DHCP ☐ Static DHCP request successful.

IP Address 192.168.123.22

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::200:CFF:FEDA:4157

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

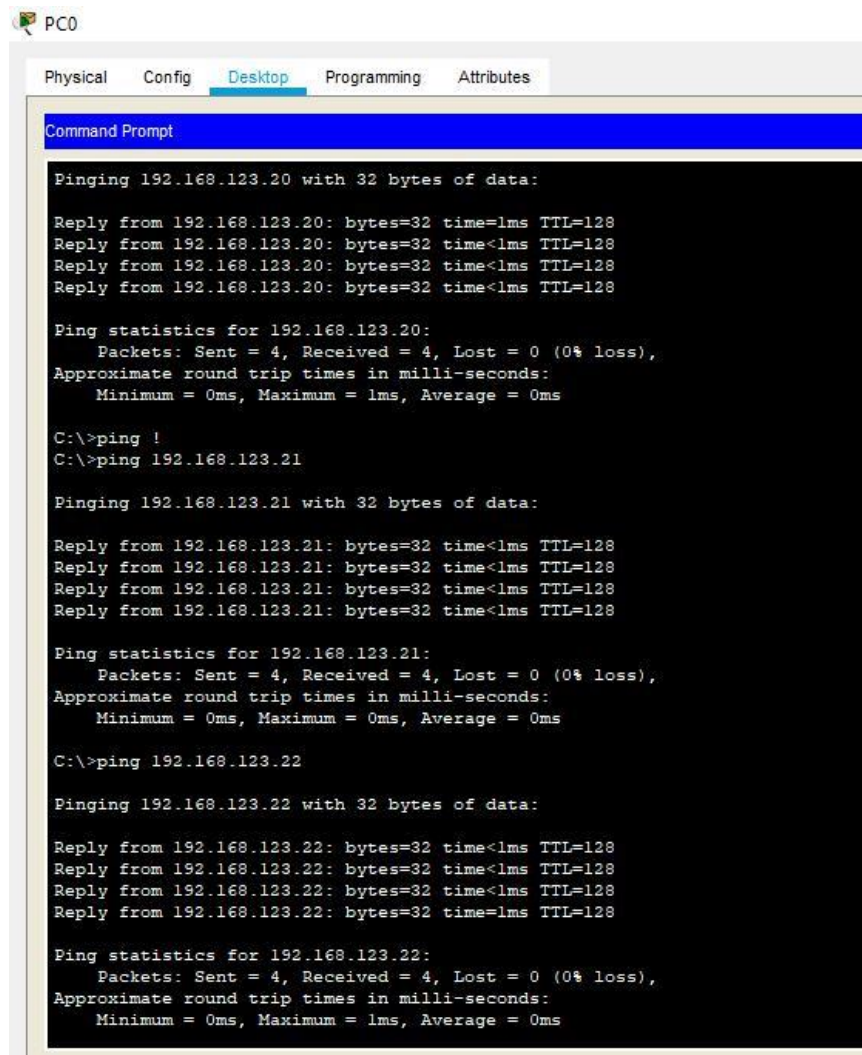
Authentication MD5

Username

Password

☐ Top

Setelah selesai konfigurasi, ping kesemua PC yang terhubung dengan server DHCP



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt

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 !
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 = 0ms, Average = 0ms

C:\>ping 192.168.123.22

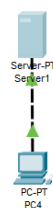
Pinging 192.168.123.22 with 32 bytes of data:

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

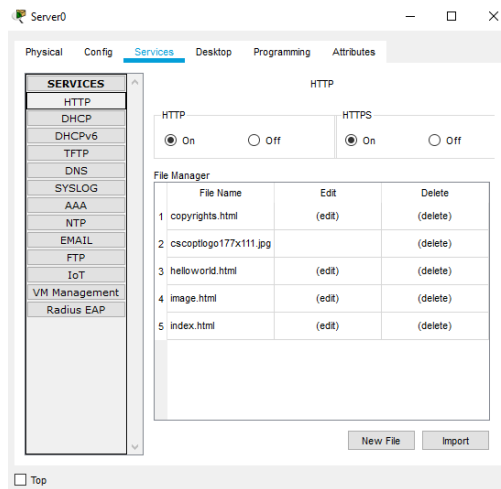
Ping statistics for 192.168.123.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

KEGIATAN 2 MEMBUAT WEB SERVER

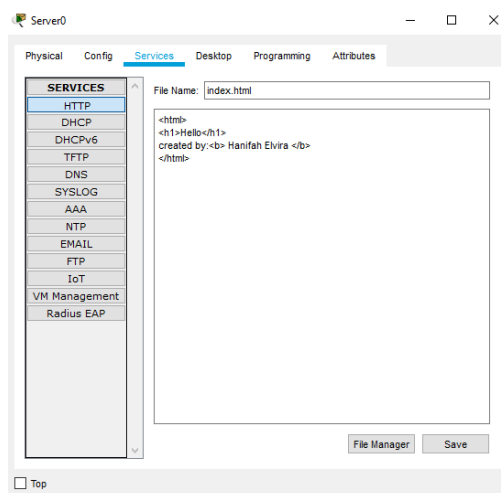
Membuat Web Server



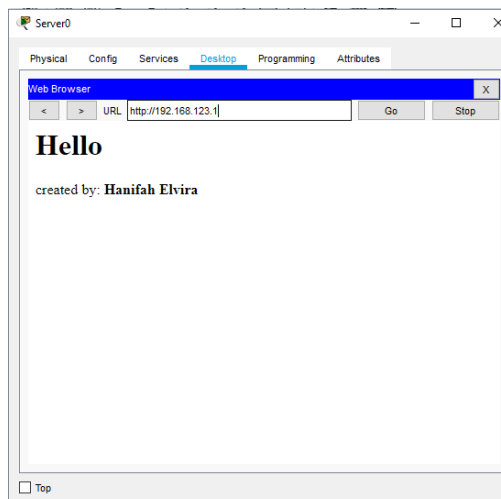
Pilih radio button ON pada HTTP



Edit pesan yang akan ditampilkan pada saat browsing HTTP

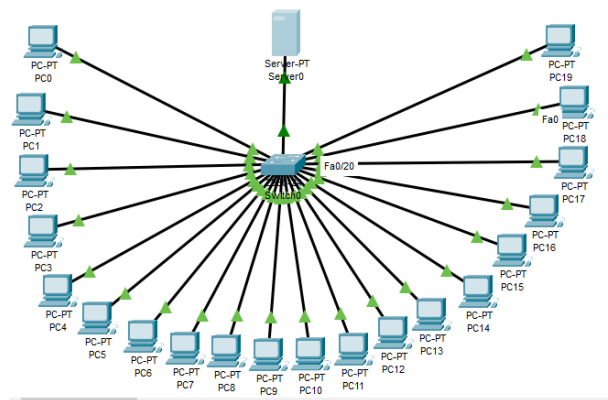


Browsing HTTP



Tugas

1. Buatlah DHCP server dengan packet tracker dengan client terdiri dari 20PC! Persiapan simulasi server DHCP dengan menggunakan 20 buah workstation, 1switch, dan 1 server.

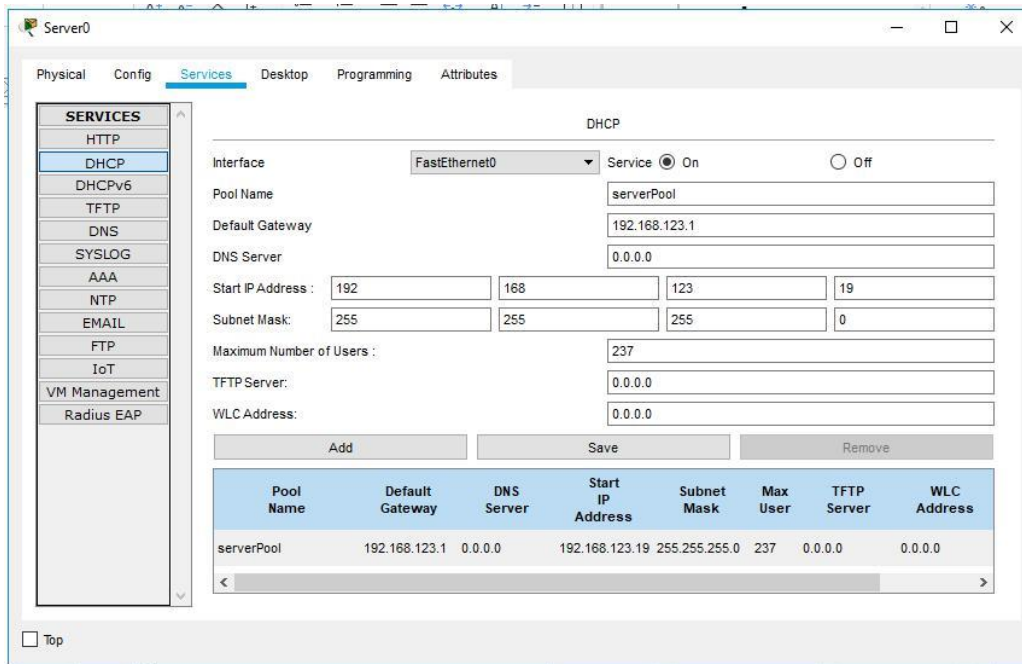


Melakukan konfigurasi IP address pada server 0

The screenshot shows the configuration window for Server0 in Packet Tracer. The 'Desktop' tab is selected. The configuration is as follows:

Field	Value
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	
DHCP	<input type="radio"/>
Auto Config	<input type="radio"/>
Static	<input checked="" type="radio"/>
IPv6 Address	
Link Local Address	FE80::201:43FF:FE06:AA9C
IPv6 Gateway	
IPv6 DNS Server	
802.1X	
Use 802.1X Security	<input type="checkbox"/>
Authentication	MDS
Username	
Password	

At the bottom left, there is a 'Top' button.



Melakukan ping

```

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=37ms TTL=128
Reply from 192.168.123.20: bytes=32 time=2ms TTL=128
Reply from 192.168.123.20: bytes=32 time=1ms TTL=128
Reply from 192.168.123.20: bytes=32 time=4ms 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 = 37ms, Average = 11ms

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=18ms TTL=128
Reply from 192.168.123.21: bytes=32 time=4ms 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 = 18ms, Average = 5ms

C:\>ping 192.168.123.22

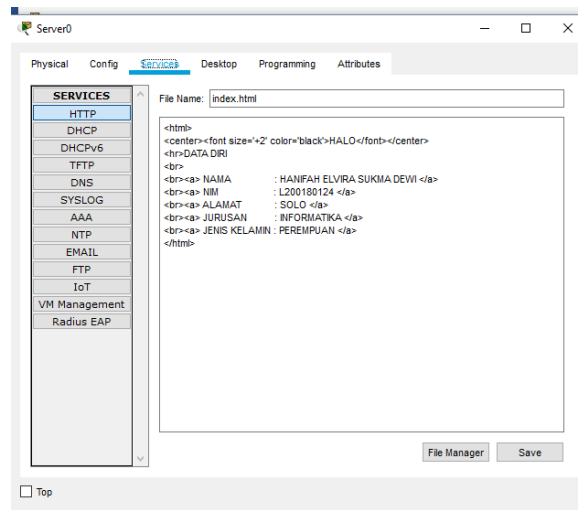
Pinging 192.168.123.22 with 32 bytes of data:

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:

```

2. Buatlah web server pada packet tracker. Dengan mengubah tampilan pada web tersebut. Mengubah tampilan web sesuai ketentuan



Tampilan web setelah diubah

