

LAPORAN AKHIR PRAKTIKUM

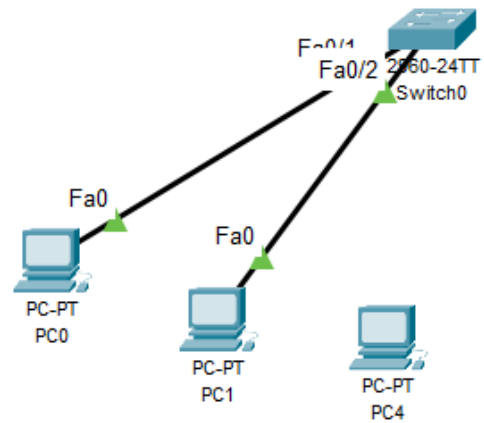
Mata Praktikum : JARINGAN KOMPUTER
Kelas : 3IA11
Praktikum ke- : 1
Tanggal : 15/10/2024
Materi : PENGENALAN JARINGAN KOMPUTER
NPM : 51422161
Nama : MUHAMMAD TARMIDZI BARIQ
Ketua Asisten : RAFI
Jumlah Lembar : 8



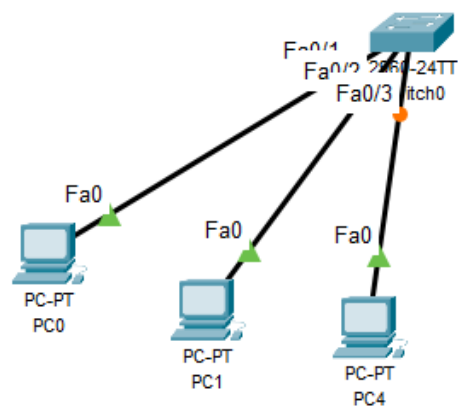
LABORATORIUM INFORMATIKA
UNIVERSITAS GUNADARMA
2024

SWITCH

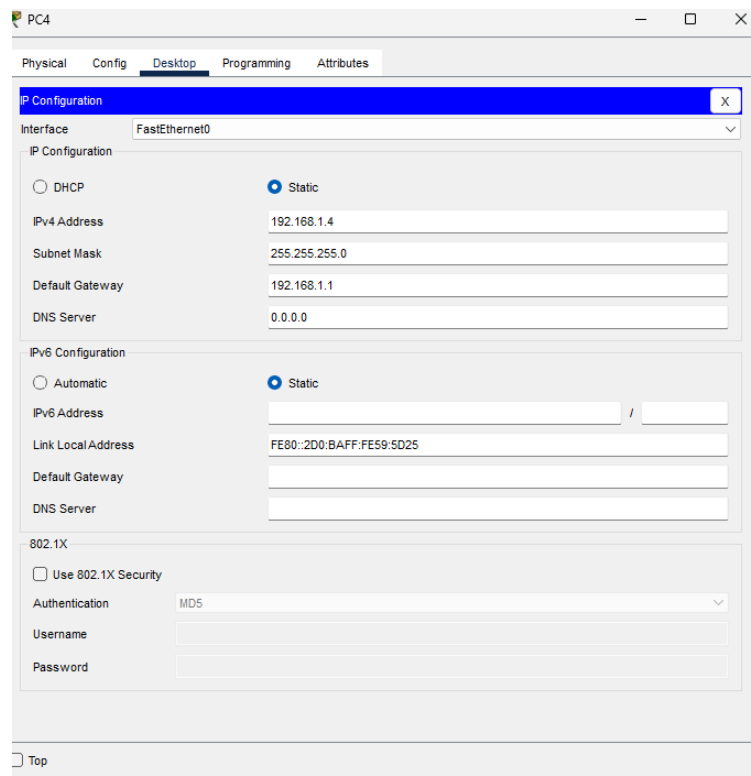
1. Pertama ke END DEVICE klik PC dan drag ke Switch



2. Tambahkan kabel silahkan pilih CONNECTIONS pilih COPPER STRAIGHT THROUGH lalu arahkan ke PC 4 pilih FastEthernet0 lalu arahkan ke Switch0 pilih FastEthernet 0/3




3. Konfigurasi IP CONFIGURATION, klik PC4 pilih desktop pilih ip configuration lalu ubah konfigurasi nya seperti dibawah ini









The screenshot shows the 'PC4' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing the following settings:

- Interface: FastEthernet0
- IP Configuration:
 - ☐ DHCP
 - ☒ Static
 - IPv4 Address: 192.168.1.4
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.1.1
 - DNS Server: 0.0.0.0
- IPv6 Configuration:
 - ☐ Automatic
 - ☒ Static
 - IPv6 Address: (empty field)
 - Link Local Address: FE80::2D0:BAFF:FE59:5D25
 - Default Gateway: (empty field)
 - DNS Server: (empty field)
- 802.1X:
 - ☐ Use 802.1X Security
 - Authentication: MD5
 - Username: (empty field)
 - Password: (empty field)

There is a 'Top' button at the bottom left of the window.

4. Uji Coba dengan klik tombol  dipojok kanan atas

	Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
<div>    </div>		Successful	PC1	PC4	ICMP		0.000	N	5	(edit)	(delete)
		Successful	PC1	PC4	ICMP		0.000	N	6	(edit)	(delete)
		Successful	PC0	PC4	ICMP		0.000	N	7	(edit)	(delete)

5. lalu lakukan secara berulang sampai switch terdapat 5 PC

Ip configuration PC 5

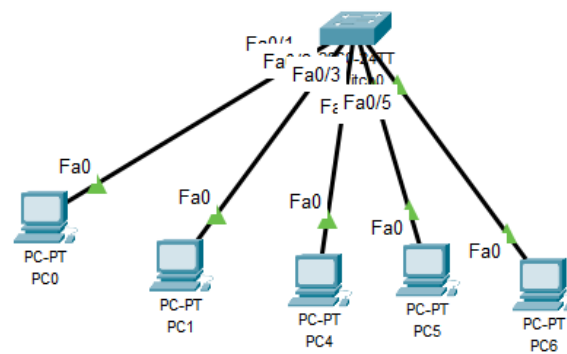
The screenshot shows the configuration window for PC5. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IPv4 Address is set to 192.168.1.5, Subnet Mask to 255.255.255.0, and Default Gateway to 192.168.1.1. The DNS Server is 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also chosen. The IPv6 Address field is empty, and the Link Local Address is FE80::2E0:F9FF:FE23:4620. The 802.1X section shows 'Use 802.1X Security' is unchecked, Authentication is set to MD5, and Username and Password fields are empty.

Field	Value
Interface	FastEthernet0
IP Configuration	Static
IPv4 Address	192.168.1.5
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	0.0.0.0
IPv6 Configuration	Static
IPv6 Address	
Link Local Address	FE80::2E0:F9FF:FE23:4620
Default Gateway	
DNS Server	
802.1X	
Use 802.1X Security	Unchecked
Authentication	MD5
Username	
Password	

Ip configuration PC 6

The screenshot shows the configuration window for PC6. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IPv4 Address is set to 192.168.1.6, Subnet Mask to 255.255.255.0, and Default Gateway to 192.168.1.1. The DNS Server is 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also chosen. The IPv6 Address field is empty, and the Link Local Address is FE80::2E0:B0FF:FEBC:1BD4. The 802.1X section shows 'Use 802.1X Security' is unchecked, Authentication is set to MD5, and Username and Password fields are empty.

Field	Value
Interface	FastEthernet0
IP Configuration	Static
IPv4 Address	192.168.1.6
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	0.0.0.0
IPv6 Configuration	Static
IPv6 Address	
Link Local Address	FE80::2E0:B0FF:FEBC:1BD4
Default Gateway	
DNS Server	
802.1X	
Use 802.1X Security	Unchecked
Authentication	MD5
Username	
Password	



UJI COBA SWITCH

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC5	PC4	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC6	PC5	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC4	PC1	ICMP		0.000	N	2	(edit)	(delete)
	Successful	PC0	PC1	ICMP		0.000	N	3	(edit)	(delete)

HUB

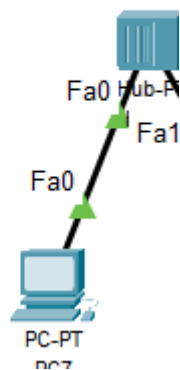
1. Pertama ke NETWORK DEVICE pilih HUB pilih PT-Hub



2. Pertama ke END DEVICE klik PC dan drag ke HUB



3. Tambahkan kabel silahkan pilih CONNECTIONS pilih COPPER STRAIGHT THROUGH lalu arahkan ke PC 7 pilih FastEthernet0 lalu arahkan ke HUB pilih FastEthernet FA1



4. Konfigurasi PC7

PC7

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.3.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.3.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:2FFF:FE5B:7A03

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

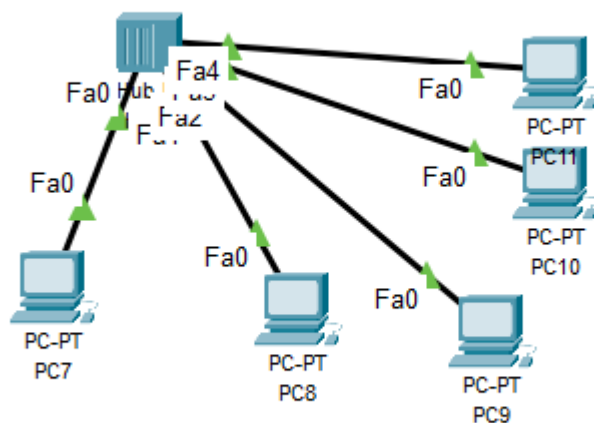
Authentication: MD5

Username:

Password:

☐ Top

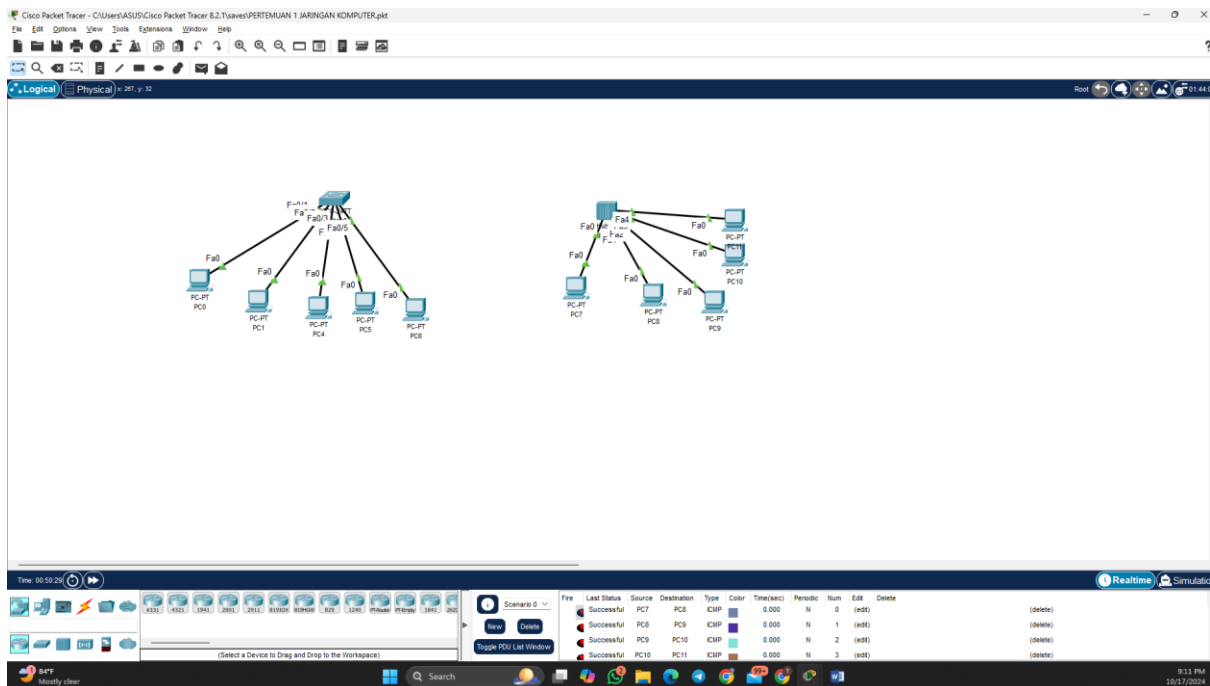
5. tambahkan kembali PC dan tambahkan kabel cooper straight through



UJI COBA

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC7	PC8	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC8	PC9	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC9	PC10	ICMP		0.000	N	2	(edit)	(delete)
	Successful	PC10	PC11	ICMP		0.000	N	3	(edit)	(delete)

FOTO KESELURUHAN



2. Jelaskan perbedaan dari penggunaan Switch dan Hub

Hub adalah perangkat jaringan yang memungkinkan Anda menghubungkan beberapa PC ke satu jaringan, sedangkan Switch menghubungkan berbagai perangkat bersama-sama dalam satu jaringan komputer. Hub beroperasi pada lapisan fisik, sedangkan Switch beroperasi pada lapisan data link.