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<p>Hari/Tanggal : 11 Oktober 2021</p>		<p>Nama Asisten Labratorium :</p> <ol style="list-style-type: none"> 1. Annur Hangga Prihadi 2. Harfansa Nasrullah 3. Faiz Kumara 4. Uray Asyifa

Inter VLAN

1. Teori Singkat

Ambil teori singkat dari Google ya

2. Alat dan Bahan

2.1. Hardware: Laptop atau PC

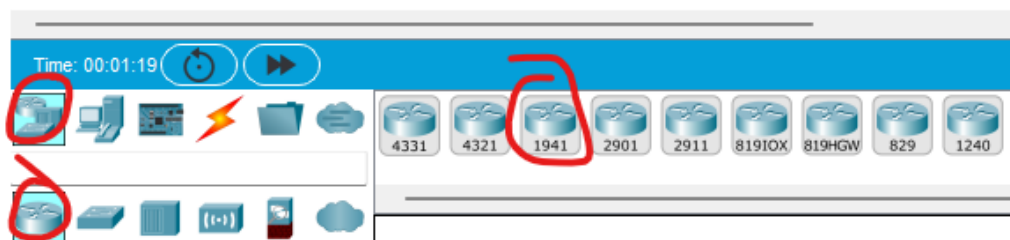
2.2. Software: Cisco Packet Tracer

3. Elemen Kompetensi

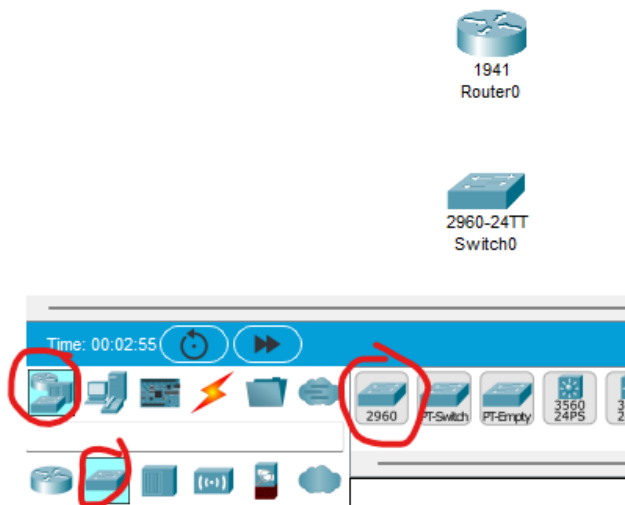
3.1. Pre-Praktikum

3.1.1. Buka Cisco Packet Tracer kalian

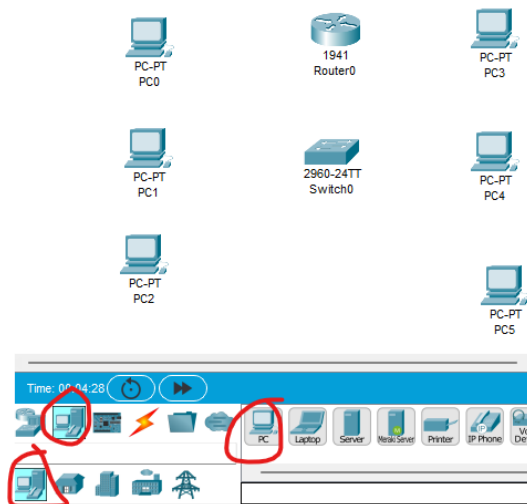
3.1.2. Pilih router sesuai pada gambar sebanyak 1 buah



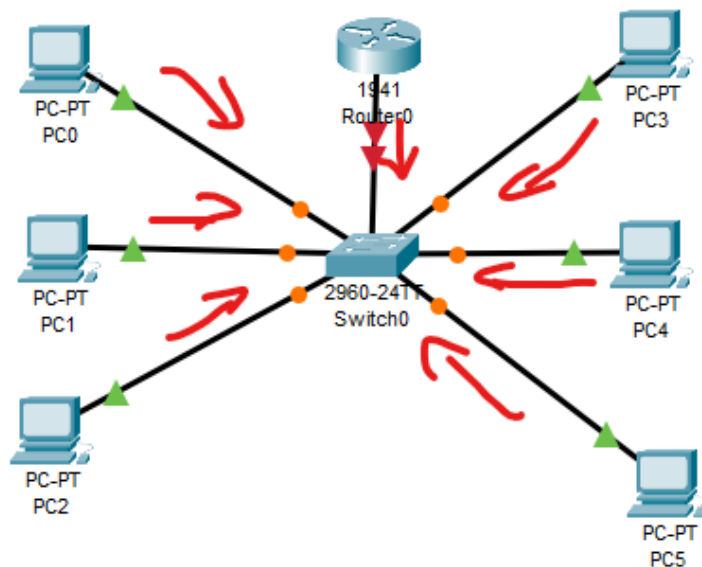
3.1.3. Pilih switch sesuai pada gambar sebanyak 1 buah



3.1.4. Pilih 6 PC dan susun topologinya sesuai dengan kehendak kalian



3.1.5. Pilih Automatic Cable lalu sambungkan ke masing-masing komponen sesuai pada gambar

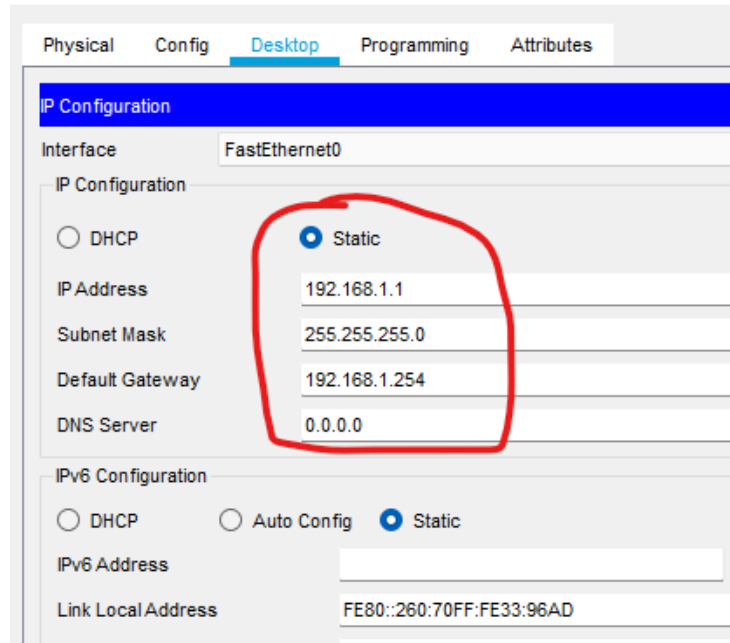


3.2. Setting PC

3.2.1. Masuk ke PC0 > Desktop > IP Configuration dan lakukan langkah berikut

- Isi IP Address dengan 192.168.1.1
- Isi Subnet Mask dengan 255.255.255.0
- Isi Default Gateway dengan 192.168.1.254

 PC0



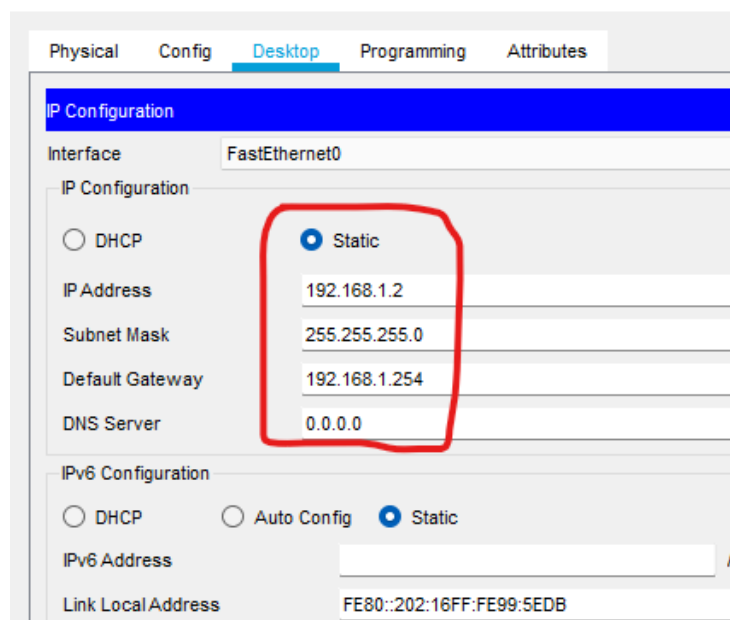
The screenshot shows the 'Desktop' tab of the PC0 configuration window. The 'IP Configuration' section is active, showing the 'FastEthernet0' interface. The 'Static' radio button is selected. The IP Address is set to 192.168.1.1, the Subnet Mask is 255.255.255.0, and the Default Gateway is 192.168.1.254. The DNS Server is set to 0.0.0.0. The IPv6 Configuration section is also visible, with 'Static' selected and the Link Local Address set to FE80::260:70FF:FE33:96AD.

Field	Value
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::260:70FF:FE33:96AD

3.2.2. Masuk ke PC1 > Desktop > IP Configuration dan lakukan langkah berikut

- Isi IP Address dengan 192.168.1.2
- Isi Subnet Mask dengan 255.255.255.0
- Isi Default Gateway dengan 192.168.1.254

 PC1



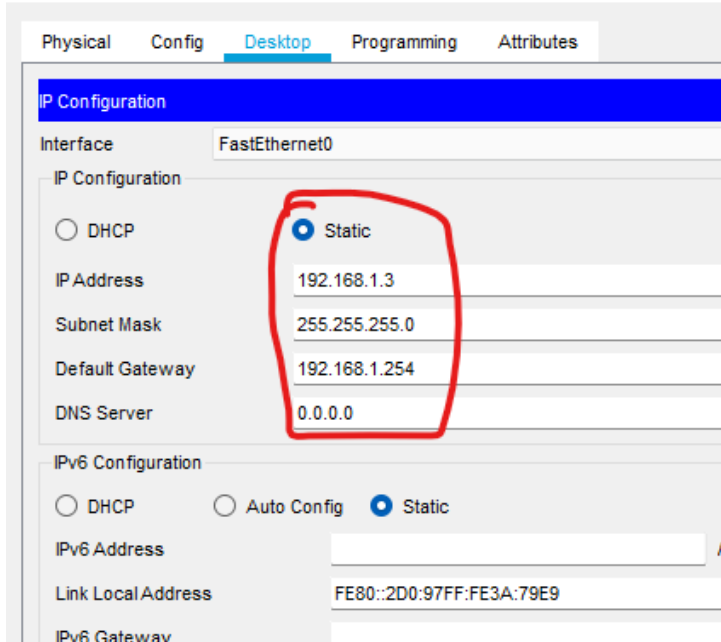
The screenshot shows the 'Desktop' tab of the PC1 configuration window. The 'IP Configuration' section is active, showing the 'FastEthernet0' interface. The 'Static' radio button is selected. The IP Address is set to 192.168.1.2, the Subnet Mask is 255.255.255.0, and the Default Gateway is 192.168.1.254. The DNS Server is set to 0.0.0.0. The IPv6 Configuration section is also visible, with 'Static' selected and the Link Local Address set to FE80::202:16FF:FE99:5EDB.

Field	Value
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.1.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::202:16FF:FE99:5EDB

3.2.3. Masuk ke PC2 > Desktop > IP Configuration dan lakukan langkah berikut

- Isi IP Address dengan 192.168.1.3
- Isi Subnet Mask dengan 255.255.255.0
- Isi Default Gateway dengan 192.168.1.254

PC2



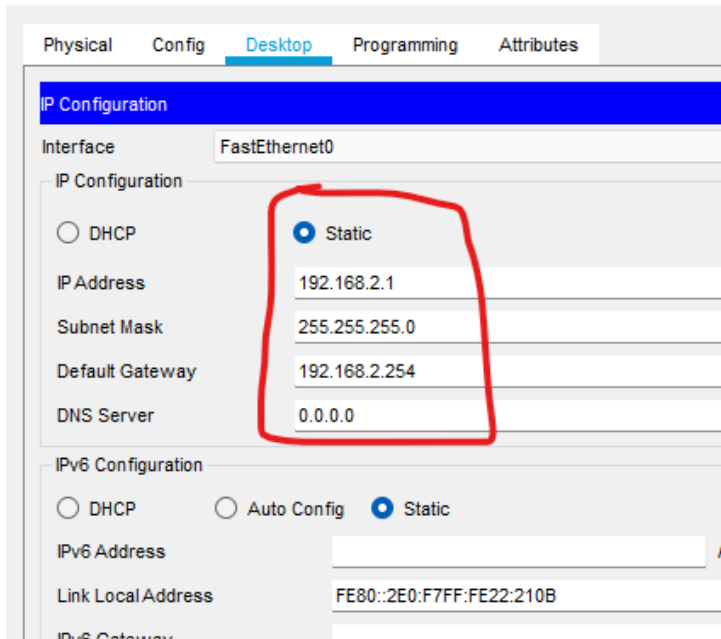
The screenshot shows the 'IP Configuration' window for PC2. The 'Desktop' tab is selected. Under 'Interface', 'FastEthernet0' is chosen. In the 'IP Configuration' section, the 'Static' radio button is selected and highlighted with a red circle. The fields are filled with: IP Address: 192.168.1.3, Subnet Mask: 255.255.255.0, Default Gateway: 192.168.1.254, and DNS Server: 0.0.0.0. The 'IPv6 Configuration' section shows 'Static' selected, with an empty 'IPv6 Address' field and 'Link Local Address' set to FE80::2D0:97FF:FE3A:79E9.

Field	Value
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.1.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::2D0:97FF:FE3A:79E9
IPv6 Gateway	

3.2.4. Masuk ke PC3 > Desktop > IP Configuration dan lakukan langkah berikut

- Isi IP Address dengan 192.168.2.1
- Isi Subnet Mask dengan 255.255.255.0
- Isi Default Gateway dengan 192.168.2.254

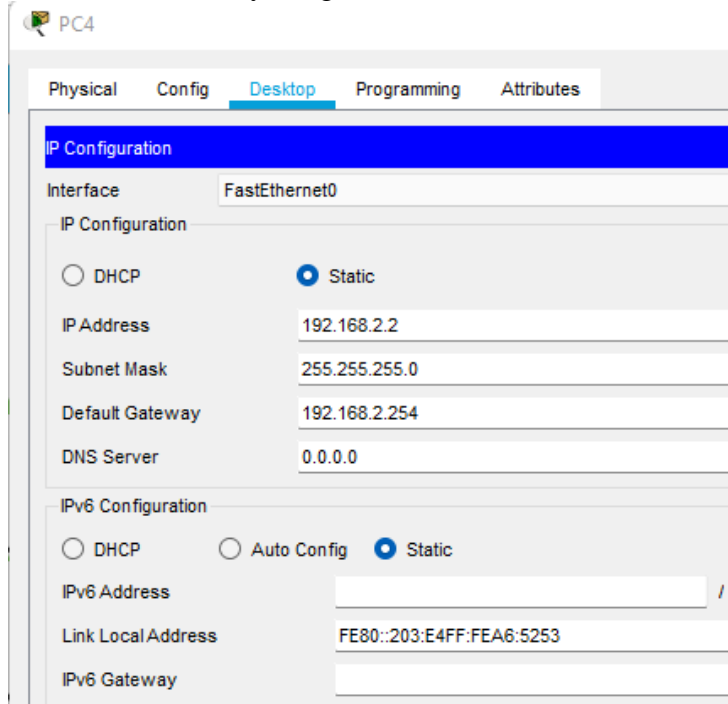
PC3



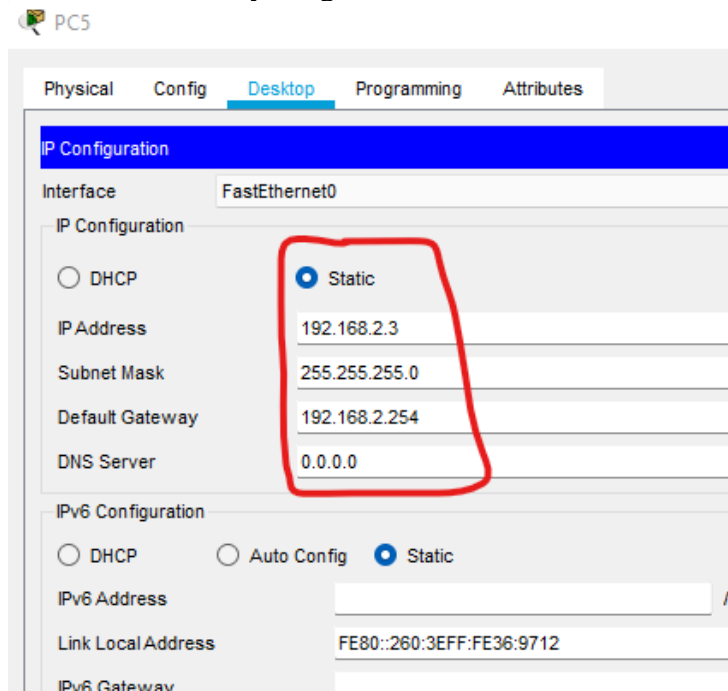
The screenshot shows the 'IP Configuration' window for PC3. The 'Desktop' tab is selected. Under 'Interface', 'FastEthernet0' is chosen. In the 'IP Configuration' section, the 'Static' radio button is selected and highlighted with a red circle. The fields are filled with: IP Address: 192.168.2.1, Subnet Mask: 255.255.255.0, Default Gateway: 192.168.2.254, and DNS Server: 0.0.0.0. The 'IPv6 Configuration' section shows 'Static' selected, with an empty 'IPv6 Address' field and 'Link Local Address' set to FE80::2E0:F7FF:FE22:210B.

Field	Value
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.254
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::2E0:F7FF:FE22:210B
IPv6 Gateway	

- 3.2.5. Masuk ke PC4 > Desktop > IP Configuration dan lakukan langkah berikut
- Isi IP Address dengan 192.168.2.2
 - Isi Subnet Mask dengan 255.255.255.0
 - Isi Default Gateway dengan 192.168.2.254

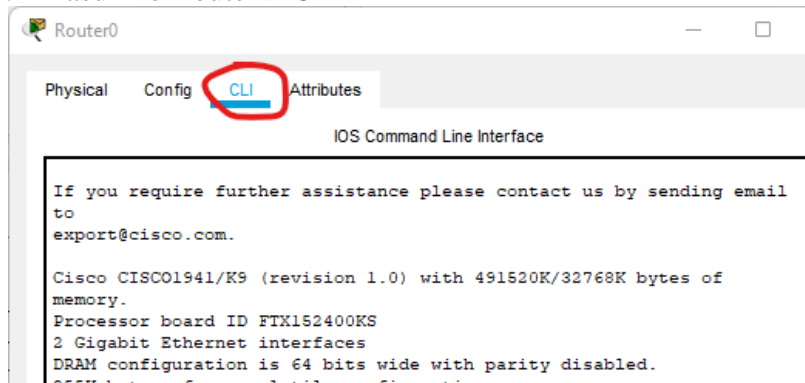


- 3.2.6. Masuk ke PC5 > Desktop > IP Configuration dan lakukan langkah berikut
- Isi IP Address dengan 192.168.2.3
 - Isi Subnet Mask dengan 255.255.255.0
 - Isi Default Gateway dengan 192.168.2.254



3.3. Setting Router

3.3.1. Masuk ke Router > CLI



3.3.2. Ketik langkah berikut

Would you like to enter the initial
configuration dialog? **n**

Press Return to get started!

Router>

Router#

Router (config)#

Router (config-subif)#

Router (config-subif)#

Router (config-subif)#

Router (config)#

Router (config-subif)#

Router (config-subif)#

Router (config-subif)#

Router (config)#

Router (config-if)

“Tekan” enter pada keyboard

en

conf t

int GigabitEthernet0/0.100

encapsulation dot1q 100

ip add 192.168.1.254 255.255.255.0

exit

int GigabitEthernet0/0.200

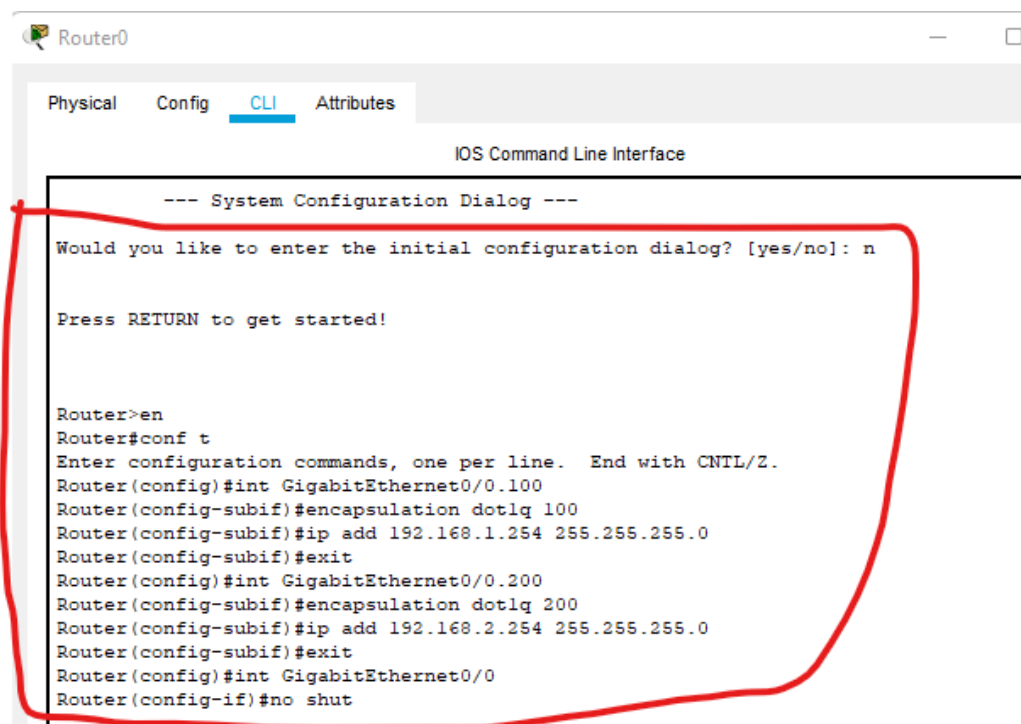
encapsulation dot1q 200

ip add 192.168.2.254 255.255.255.0

exit

int GigabitEthernet0/0

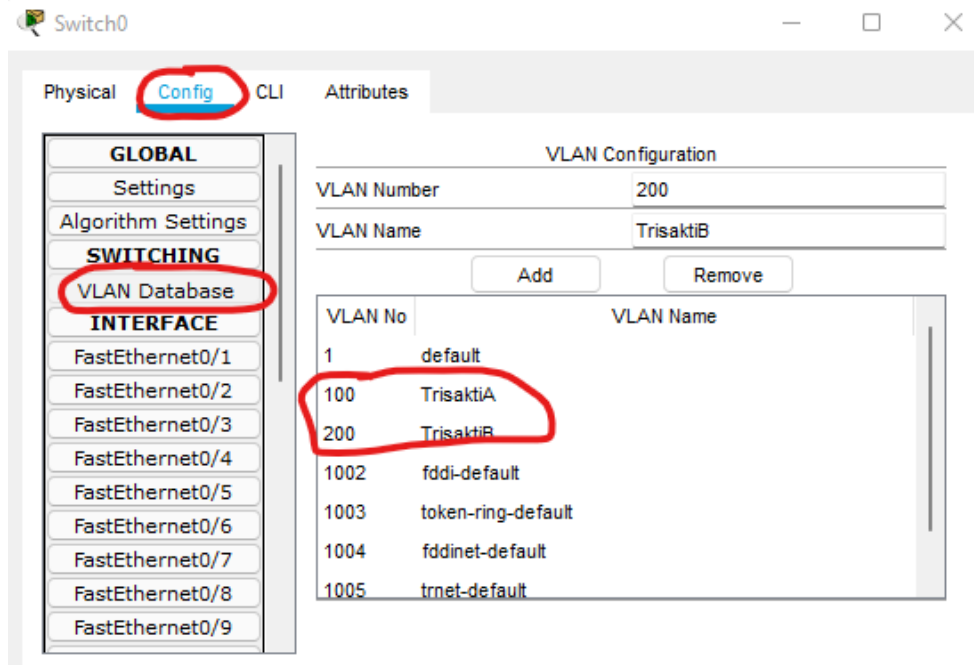
no shut



3.4. Setting Switch

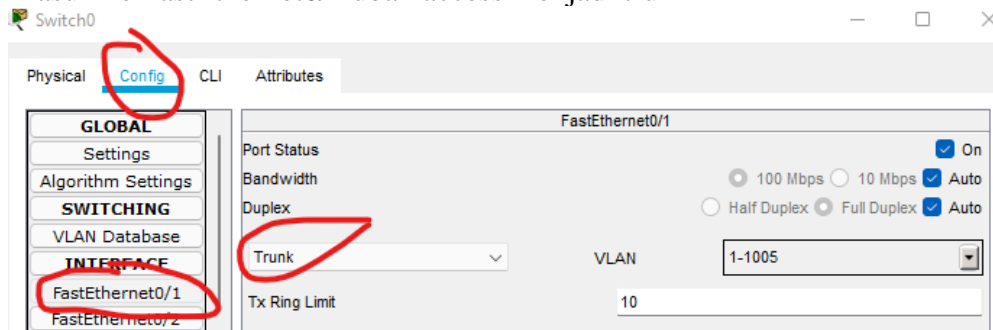
3.4.1. Masuk ke switch > Config > VLAN Database, pada kolom VLAN Number dan VLAN Name isikan value berikut

- VLAN Number: 100 dan VLAN Name: TrisaktiA lalu klik add
- VLAN Number: 200 dan VLAN Name: TrisaktiB lalu klik add

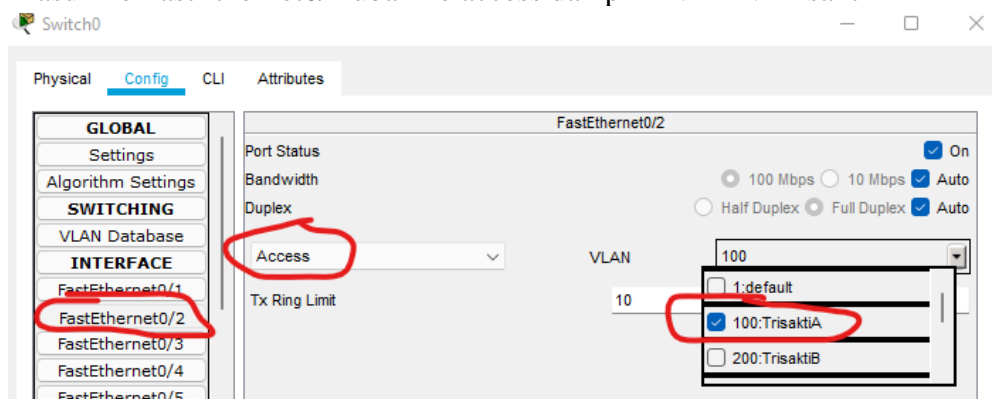


3.4.2. Masuk ke switch > config, lakukan langkah berikut

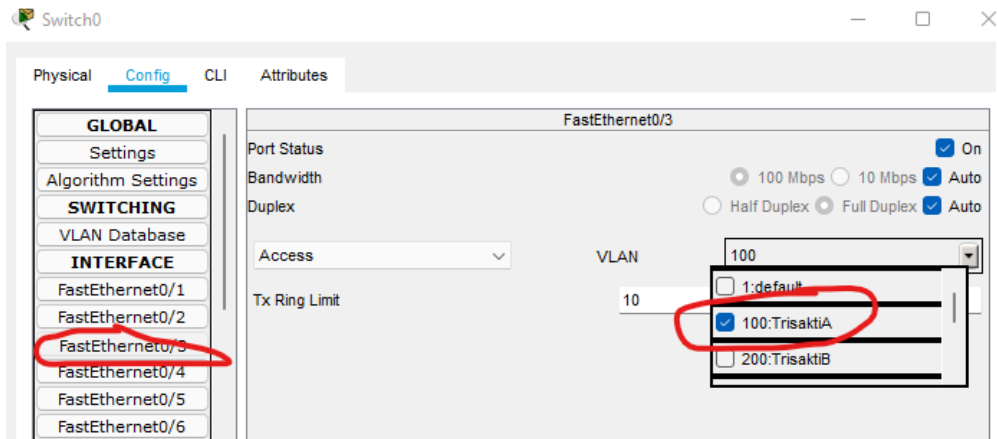
- Masuk ke FastEthernet0/1 ubah access menjadi trunk



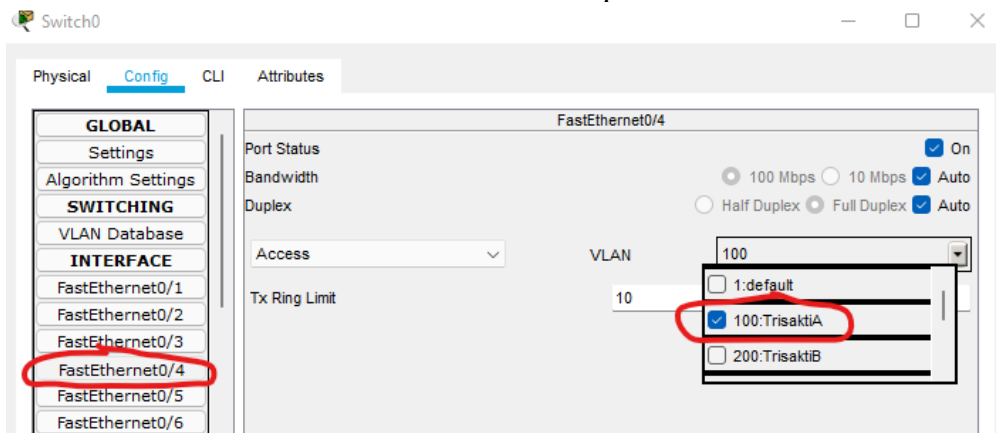
- Masuk ke FastEthernet0/2 ubah ke access dan pilih VLAN TrisaktiA



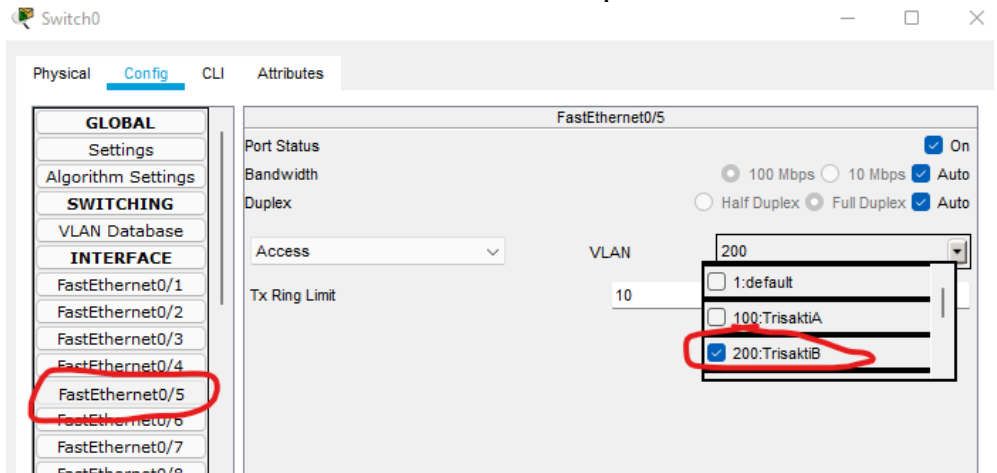
- c. Masuk ke FastEthernet0/3 ubah ke access dan pilih VLAN TrisaktiA



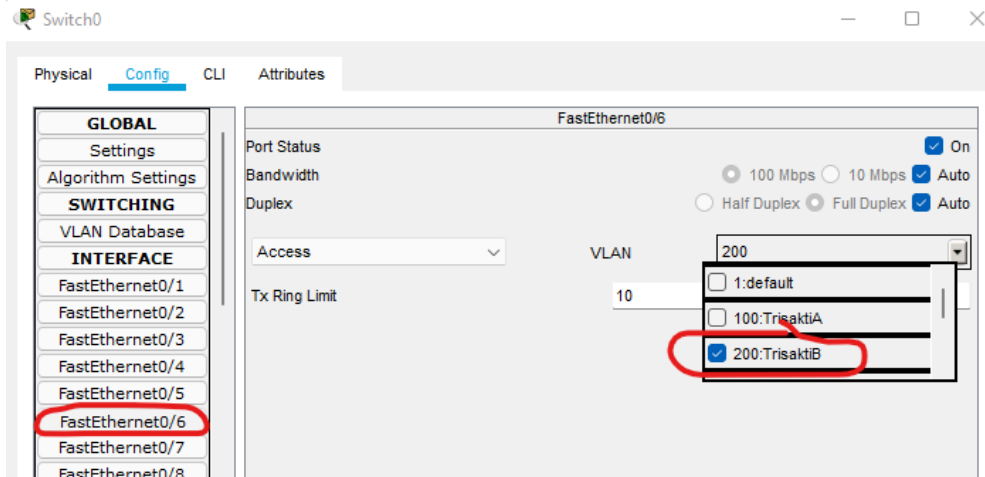
- d. Masuk ke FastEthernet0/4 ubah ke access dan pilih VLAN TrisaktiA



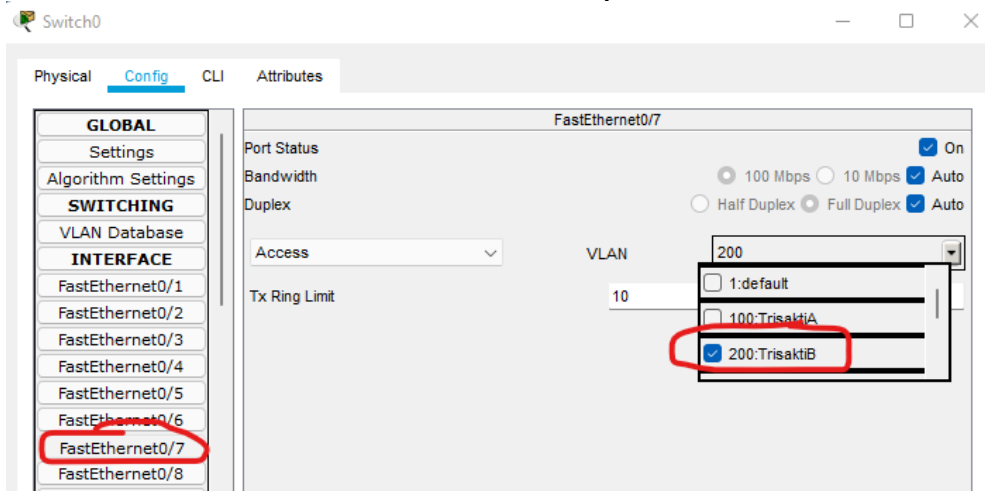
- e. Masuk ke FastEthernet0/5 ubah ke access dan pilih VLAN TrisaktiB



- f. Masuk ke FastEthernet0/6 ubah ke access dan pilih VLAN TrisaktiB

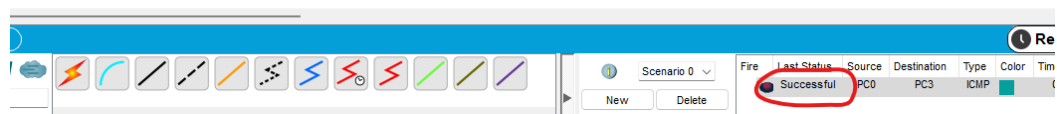
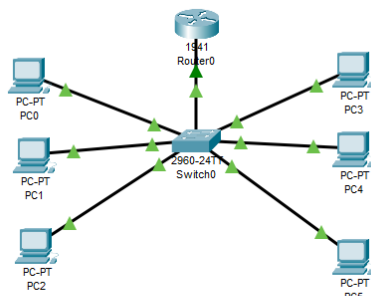


- g. Masuk ke FastEthernet0/7 ubah ke access dan pilih VLAN TrisaktiB



3.5. Testing Jaringan

- 3.5.1. Kirim pesan dari PC0 ke PC3 (Jika hasilnya "Successful" maka pengaturan sudah benar)



4. Simpulan

Isi simpulan sendiri ya (Minimal 4 baris)