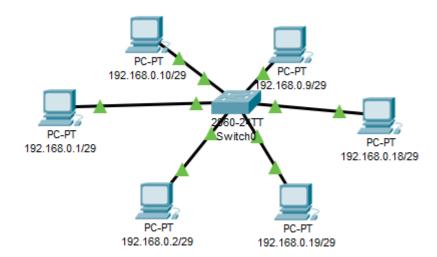
Nama: Aulia Rachmawati

Nim : L200160015

Kelas : A

### Modul 3

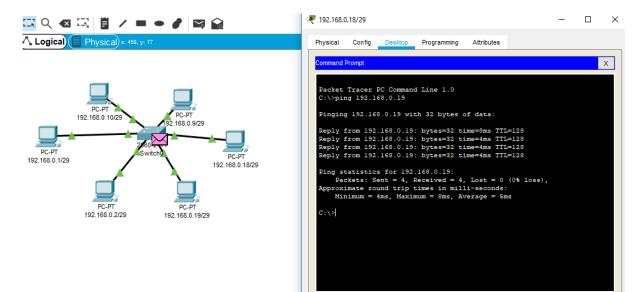
# Percobaan 1



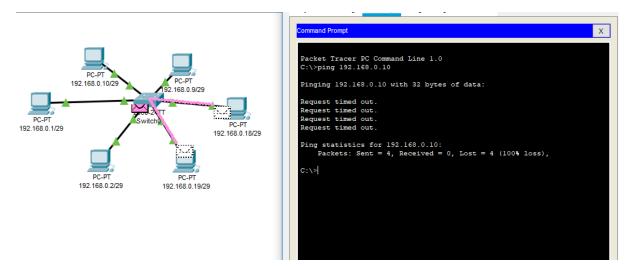
# A. Membuat Vlan.

```
Switch(config) #Vlan 2
Switch(config-vlan) #name FKII
Switch(config-vlan) #int range fa0/9 - 10
Switch(config-if-range) #
Switch(config-if-range) #switch
Switch(config-if-range) #switchport access Vlan 2
Switch(config-if-range) #exit
Switch(config) #Vlan 3
Switch(config-vlan) #name FKIII
Switch(config-vlan) #int range fa0/18 - 19
Switch(config-if-range) #switchport access Vlan 3
Switch(config-if-range) #
```

B. Ping PC satu dengan PC lainnya yang memiliki Vlan yang sama (192.168.0.18 Ke 192.168.0.19 (VLAN 3)).



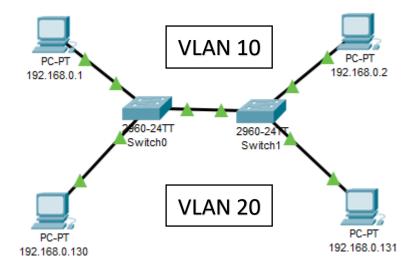
C. Ping PC satu dengan PC lainnya yang memiliki Vlan yang Berbeda (192.168.0.1 ke 192.168.0.10 (VLAN 1 ke VLAN 2)).



# D. Analisa

Dari hasil praktikum diatas , dapat disimpulkan bahwa apabila melakukan ping antar pc dengan Vlan yang berbeda maka akan terjadi Request Time Out(RTO) , Sedangkan melakukan ping antar pc dengan Vlan yang sama akan terkoneksi. Hal ini menunjukan bahwa pengujian ping pada masing-masing VLAN dapat berhasil atau sukses jika port tersebut berada dalam satu VLAN yang sama dan sebaliknya.

### Percobaan 2



# A. Membuat Vlan.

# - Switch 0

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #vlan 10
Switch(config-vlan) #vlan 20
Switch(config-vlan) #exit
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #switchport access vlan 10
Switch(config-if) #exit
Switch(config-if) #switchport mode access
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #switchport access vlan 20
Switch(config-if) #exit
Switch(config-if) #exit
```

Switch#show vlan brief			^
VLAN Name	Status	Ports	
		•	
l default	active	Fa0/2, Fa0/3, Fa0/4,	
Fa0/5			
Fa0/9		Fa0/6, Fa0/7, Fa0/8,	
Fa0/9		Fa0/10, Fa0/11,	
Fa0/12, Fa0/13		140/10, 140/11,	
		Fa0/14, Fa0/16,	
Fa0/17, Fa0/18			
		Fa0/19, Fa0/20,	
Fa0/21, Fa0/22			
Ci=0/1 Ci=0/2		Fa0/23, Fa0/24,	
GigO/1, GigO/2 10 VLAN0010	active	F=0/1	
20 VLAN0020	active		
1002 fddi-default	active	,	
1003 token-ring-default	active		
1004 fddinet-default	active		
1005 trnet-default	active		
Switch#			٧

#### Switch 1

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #vlan 10
Switch(config-vlan) #vlan 20
Switch(config-vlan)#exit
Switch(config) #int fa0/1
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #exit
Switch(config) #int fa0/14
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if)#exit
Switch(config)#end
Switch#
%SYS-5-CONFIG I: Configured from console by console
Switch#
```

Switch#show vlan br			
VLAN Name	Status	Ports	
1 default Fa0/5	active	Fa0/2, Fa0/3, Fa0/4,	
140/5		Fa0/6, Fa0/7, Fa0/8,	
Fa0/9		140,0, 140,,, 140,0,	
		Fa0/10, Fa0/11,	
Fa0/12, Fa0/13			
		Fa0/15, Fa0/16,	
Fa0/17, Fa0/18		F-0/10 F-0/00	
Fa0/21, Fa0/22		Fa0/19, Fa0/20,	
Fa0/21, Fa0/22		Fa0/23, Fa0/24,	
Gig0/1, Gig0/2		,,	
10 VLAN0010	active	Fa0/1	
20 VLAN0020	active	Fa0/14	
1002 fddi-default	active		
1003 token-ring-default	active		
1004 fddinet-default	active		
1005 trnet-default	active		
Switch#			~

# B. Mode Trunk

### - Switch 0

```
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/24
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up

Switch(config-if)#
```

Switch#show int trunk 802.1q Status Native vlan Mode Port Encapsulation Status Fa0/24 on Port Vlans allowed on trunk Fa0/24 1-1005 Vlans allowed and active in management domain 1,10,20 Fa0/24 Vlans in spanning tree forwarding state and not pruned Port Fa0/24 1,10,20 Switch#

### - Switch 1

 $\label{lem:switch} Switch \#\$SPANTREE-2-RECV\_PVID\_ERR: Received 802.1Q BPDU on non trunk FastEthernet0/24 VLAN1.$ 

%SPANTREE-2-BLOCK\_PVID\_LOCAL: Blocking FastEthernet0/24 on VLAN0001. Inconsistent port type.

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config) #int fa0/24

Switch(config-if) #switch mode trunk

Switch(config-if)#end

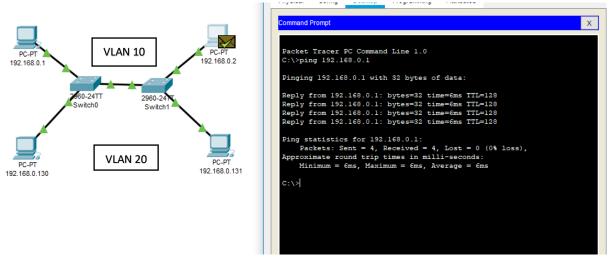
Switch#

%SYS-5-CONFIG\_I: Configured from console by console

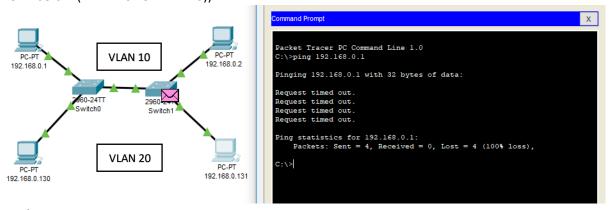
### Switch#

Switch#show Port Fa0/24	int trunk Mode on	Encapsulation 802.1q	Status trunking	Native vlan	
Port Fa0/24	Vlans allowed 1-1005	d on trunk			
Port Fa0/24	Vlans allowed 1,10,20	d and active in	management do	main	
Port Fa0/24	Vlans in spar 1,10,20	nning tree forw	arding state a	nd not pruned	
Switch#					<b>~</b>

C. Melakukan Ping pada salah satu PC ke PC lain dalam Vlan yang sama (192.168.0.2 Ke 192.168.0.1 (VLAN 10)).



D. Melakukan Ping pada salah satu PC ke PC lain dalam Vlan yang berbeda (192.168.0.131 Ke 192.168.0.1 (VLAN 20 ke VLAN 10)).



# E. Analisis

Dari hasil percobaan dapat disimpulkan bahwa konfigurasi trunking bertujuan untuk menghubungkan antar switch agar dapat berkomunikasi satu sama lain dan dapat menghubungkan 2 vlan yang berbeda untuk dapat berkomunikasi. Hanya saja pada percobaan ini , hanya PC dengan Vlan yang sama yang dapat berkomunikasi, sedangkan antar beda vlan tidak bisa. Hal ini dikarenakan tidak ada nya router yang tersambung dengan

switch.

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1 72-7 = 30 po	54 ·
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3. block Subnet	54 .
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3 block Subnet 256 - 224 s 4. Table Subnet Network	32 Nost .