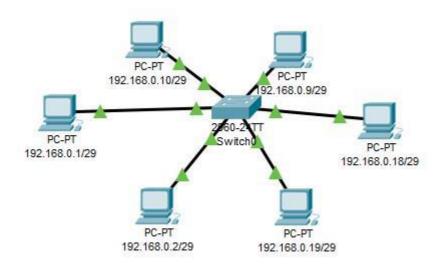
Nama : Lutfhi Aji Nugroho Wibisono

Nim : L200160038

Kelas : A

Modul 3

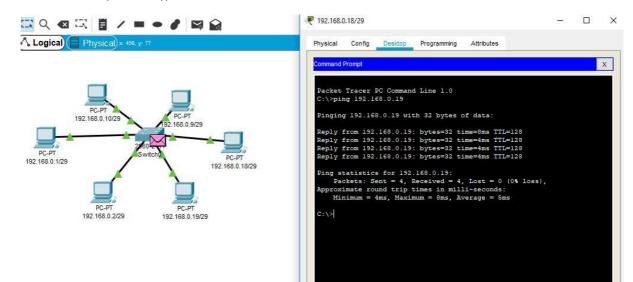
Percobaan 1



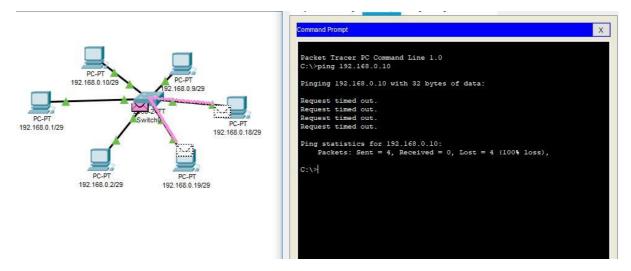
A. Membuat Vlan.

```
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) #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)).



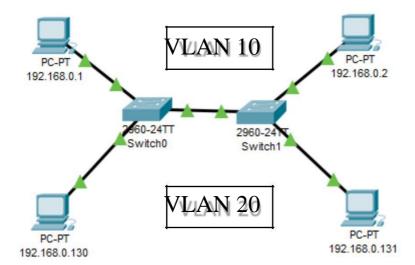
C. Ping PC satu dengan PC lainnya yang memiliki Vlan yang Berbeda (192.168.0.1 ke 192.168.0.10 (VLAN 1 ke VLAN 2)).



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 # 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) # switchport mode access
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
1 default	active	Fa0/2, Fa0/3, Fa0/4,
Fa0/5		
		Fa0/6, Fa0/7, Fa0/8,
Fa0/9		
		Fa0/10, Fa0/11,
Fa0/12, Fa0/13		
		Fa0/14, Fa0/16,
Fa0/17, Fa0/18		
		Fa0/19, Fa0/20,
Fa0/21, Fa0/22		
		Fa0/23, Fa0/24,
Gig0/1, Gig0/2		
10 VLAN0010	active	7,7725.731
20 VLAN0020	100	Fa0/15
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	
Switch#		

- 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
l default	active	Fa0/2, Fa0/3, Fa0/4,
Fa0/5		
		Fa0/6, Fa0/7, Fa0/8,
Fa0/9		
		Fa0/10, Fa0/11,
Fa0/12, Fa0/13		
		Fa0/15, Fa0/16,
Fa0/17, Fa0/18		
		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	Asset Asset
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 Mode Encapsulation Status Native vlan on 802.1q trunking 1 Port Fa0/24 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

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

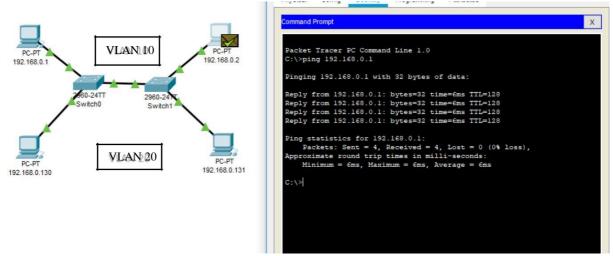
Switch#

%SYS-5-CONFIG I: Configured from console by console

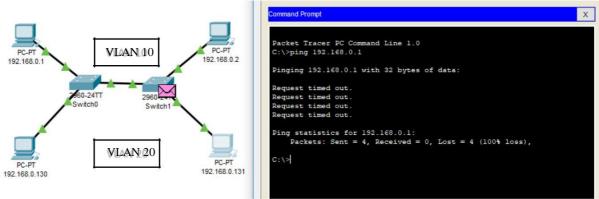
Switch#

Switch#show	int trunk					
Port	Mode	Encapsulation	Status	Native vlan		
Fa0/24	on	802.1q	trunking	1		
Port	Vlans allow	wed on trunk				
Fa0/24	1-1005					
Port	Vlans allo	wed and active in	management o	domain		
Fa0/24	1,10,20					
Port	Vlans in sp	panning tree forw	arding state	and not pruned		
Fa0/24	1,10,20					
Switch#					~	

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.