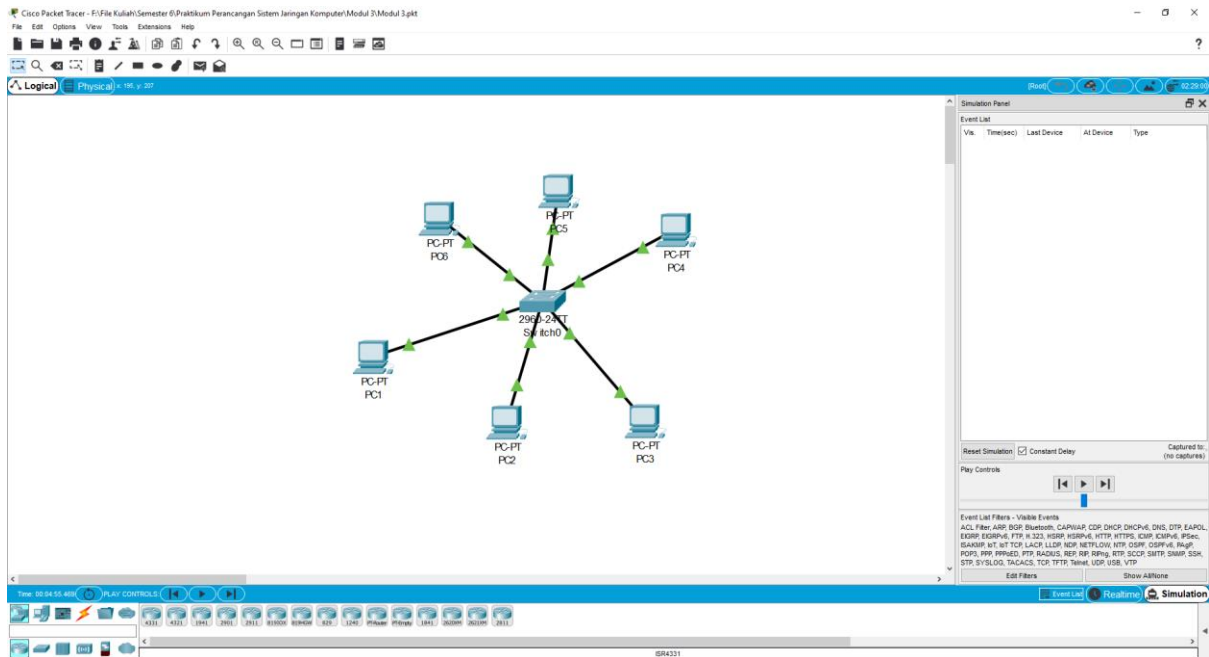


Nama : Tidhar Katon Birowo
NIM : L200170187
Kelas : A

Laporan Praktikum Perancangan Sistem Jaringan Komputer Bab 3

Latihan Praktikum Bab 3

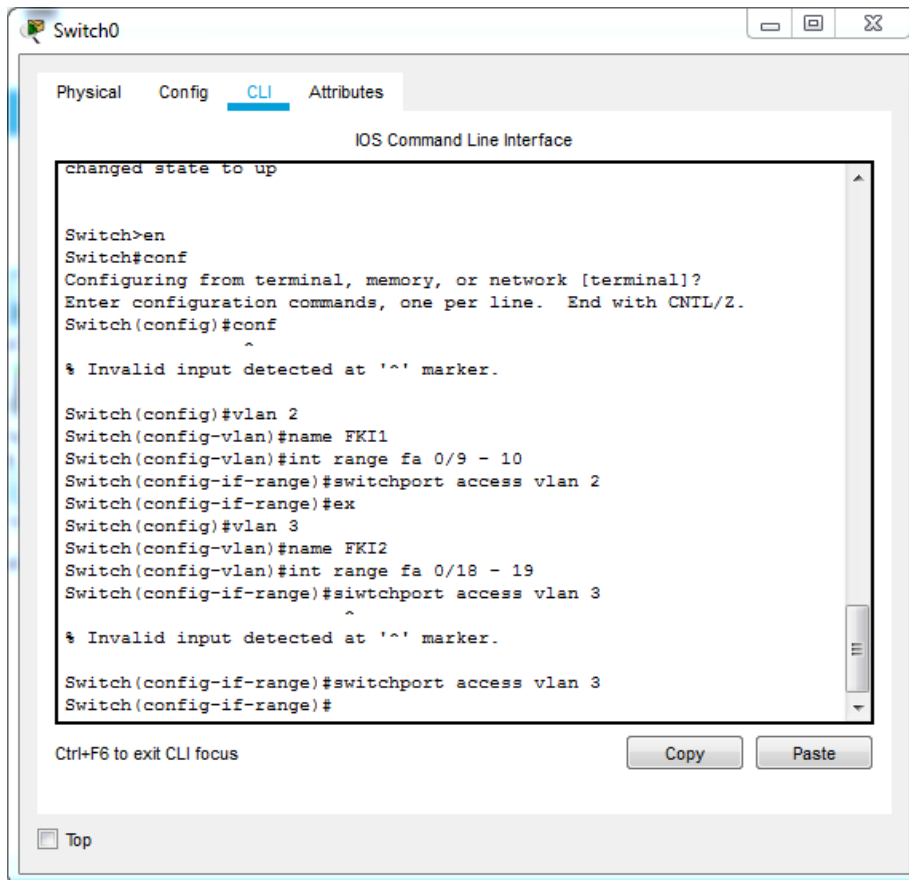
1. Konfigurasi jaringan VLAN A



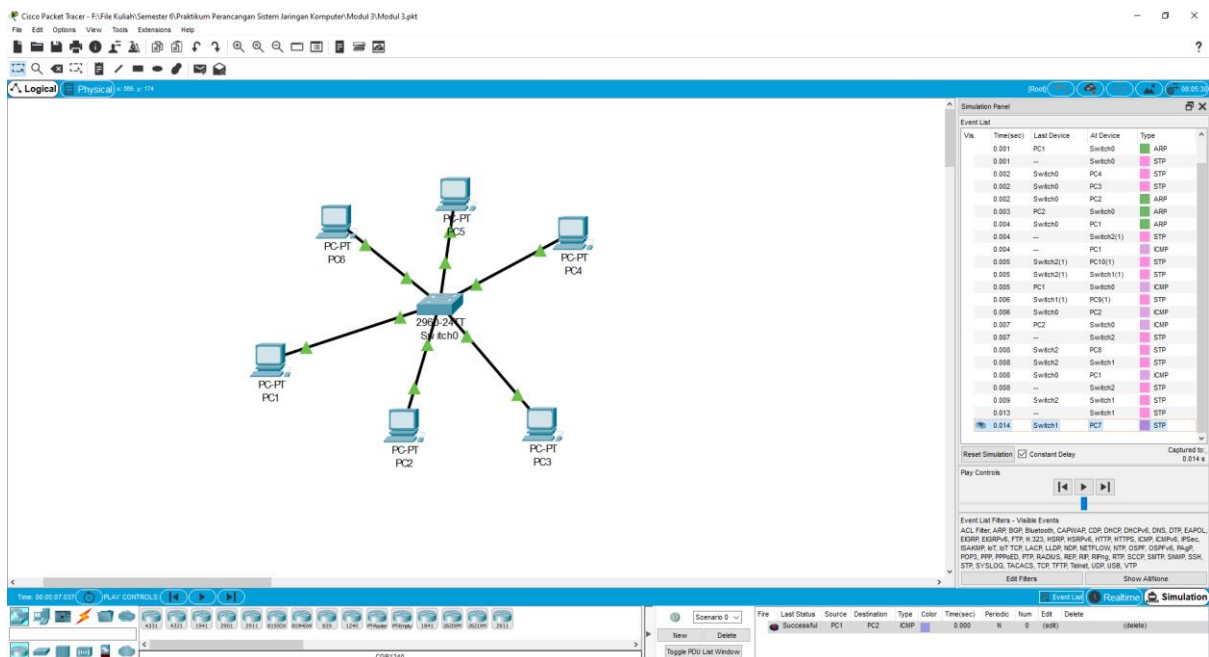
a. Konfigurasi Switch:

IP	VLAN	Port
192.168.1/29	1	Fa0/1
192.168.2/29	1	Fa0/2
192.168.9/29	2	Fa0/9
192.168.10/29	2	Fa0/10
192.168.18/29	3	Fa0/18
192.168.19/29	3	Fa0/19

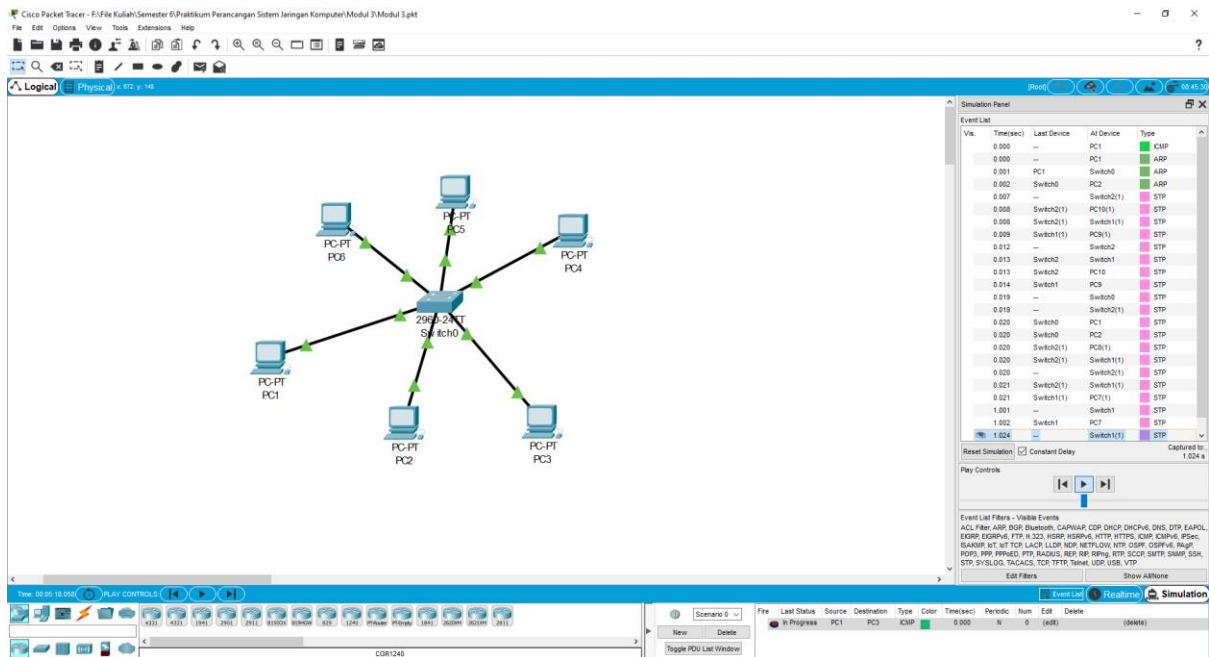
b. Konfigurasi Switch



c. Test Packet Simulasi VLAN sama



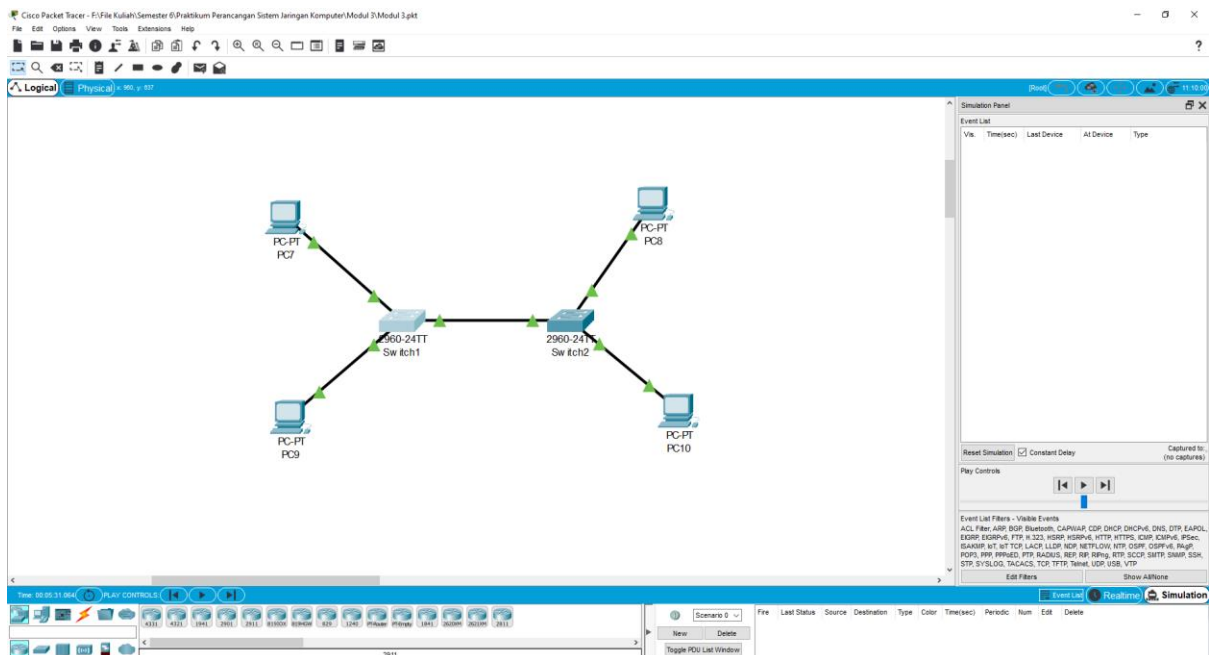
d. Test Packet Simulasi VLAN berbeda



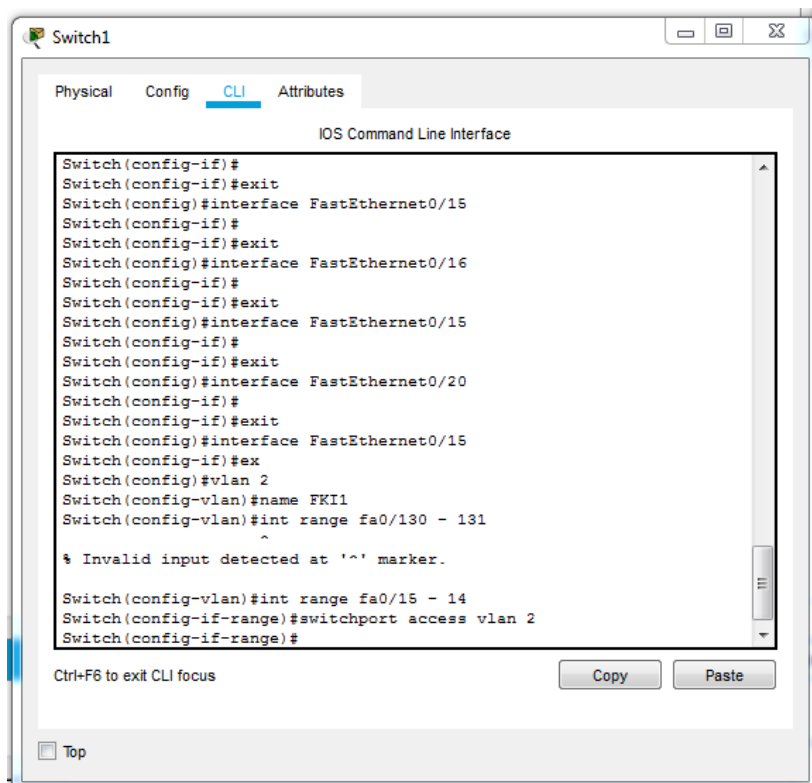
e. Analisa dari hasil pengamatan saya

Inti dari percobaan di atas adalah apabila 1 vlan bisa untuk melakukan ping, kalau beda vlan tidak bisa melakukan ping antar PC

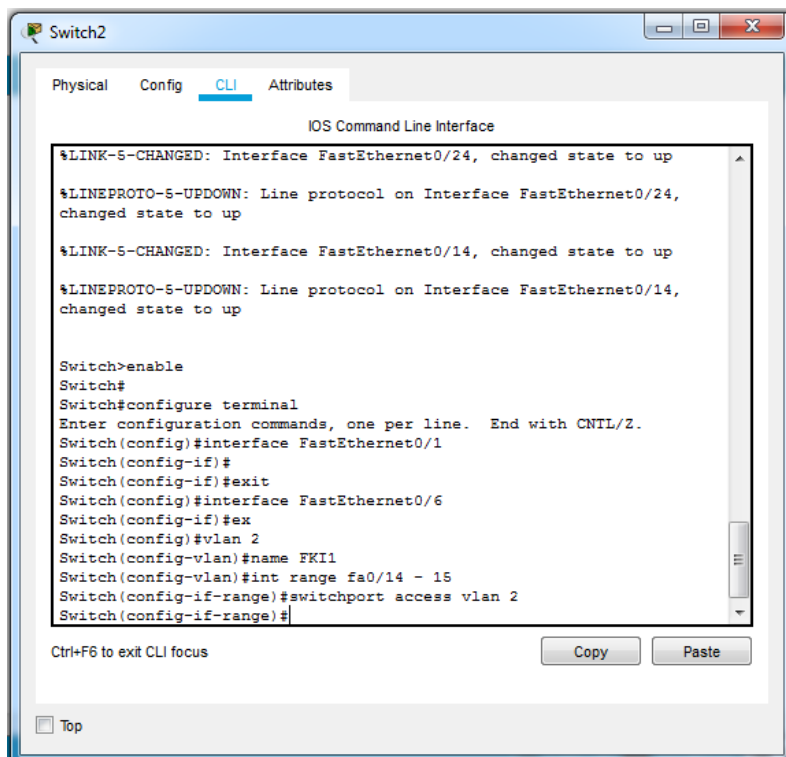
2. Konfigurasi jaringan VLAN 2



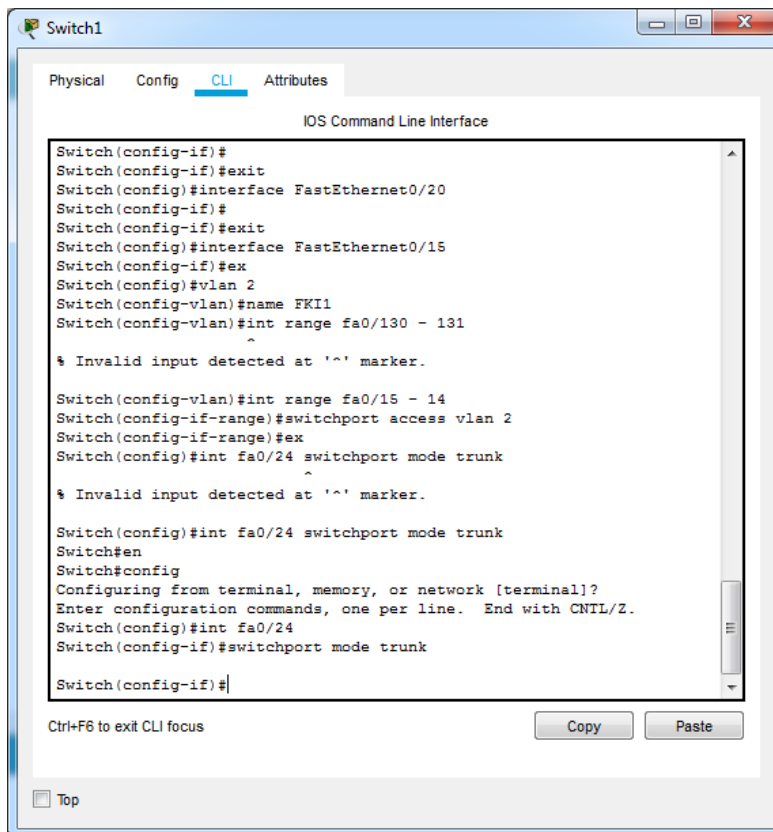
a. Konfigurasi Switch 1



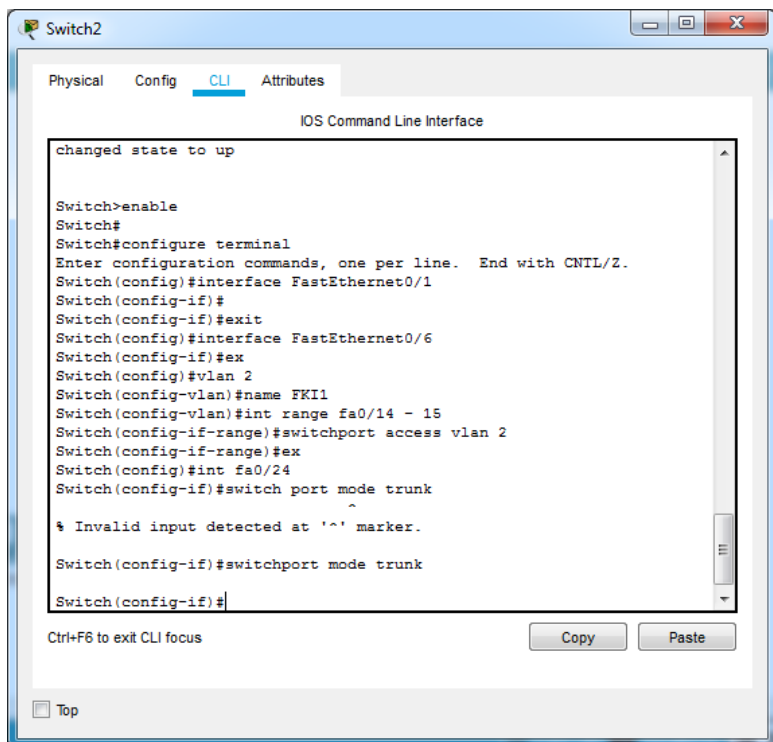
b. Konfigurasi Switch 2



c. Switch 1 Change mode Switch to Trunk Mode



d. Switch 2 Change mode Switch to Trunk Mode



e. Test packet Simulasi VLAN sama

The screenshot shows a Cisco Packet Tracer simulation of a network topology. The network consists of two switches, Switch1 and Switch2, connected by a trunk link (Fa0/24 on both). Switch1 has three PCs connected to it: PC7 (Fa0/1), PC9 (Fa0/15), and PC10 (Fa0/14). Switch2 has two PCs connected to it: PC8 (Fa0/1) and PC10 (Fa0/14). The Simulation Panel on the right displays an Event List with the following data:

Vis.	Time(sec)	Last Device	At Device	Type
0.000	--	PC9	PC9	ICMP
0.000	--	PC9	PC9	ARP
0.001	PC9	Switch1	Switch2	ARP
0.002	Switch1	Switch2	PC10	ARP
0.003	Switch2	PC10	Switch2	ARP
0.004	PC10	Switch2	Switch1	ARP
0.005	Switch2	Switch1	PC9	ARP
0.006	Switch1	PC9	PC9	ICMP
0.006	--	PC9	Switch1	ICMP
0.007	PC9	Switch1	Switch2	ICMP
0.008	Switch1	Switch2	PC10	ICMP
0.009	Switch2	PC10	Switch2	ICMP
0.010	PC10	Switch2	Switch1	ICMP
0.011	Switch2	Switch1	PC9	ICMP
0.012	Switch1	PC9	PC9	ICMP
0.107	--	Switch0	PC1	STP
0.108	Switch0	PC1	PC1	STP
0.108	Switch0	PC2	PC2	STP
0.164	--	Switch2	Switch2	STP

f. Test packet Simulasi VLAN berbeda

The screenshot shows the same Cisco Packet Tracer simulation as in (e). The network topology is identical. The Simulation Panel on the right displays an Event List with the following data:

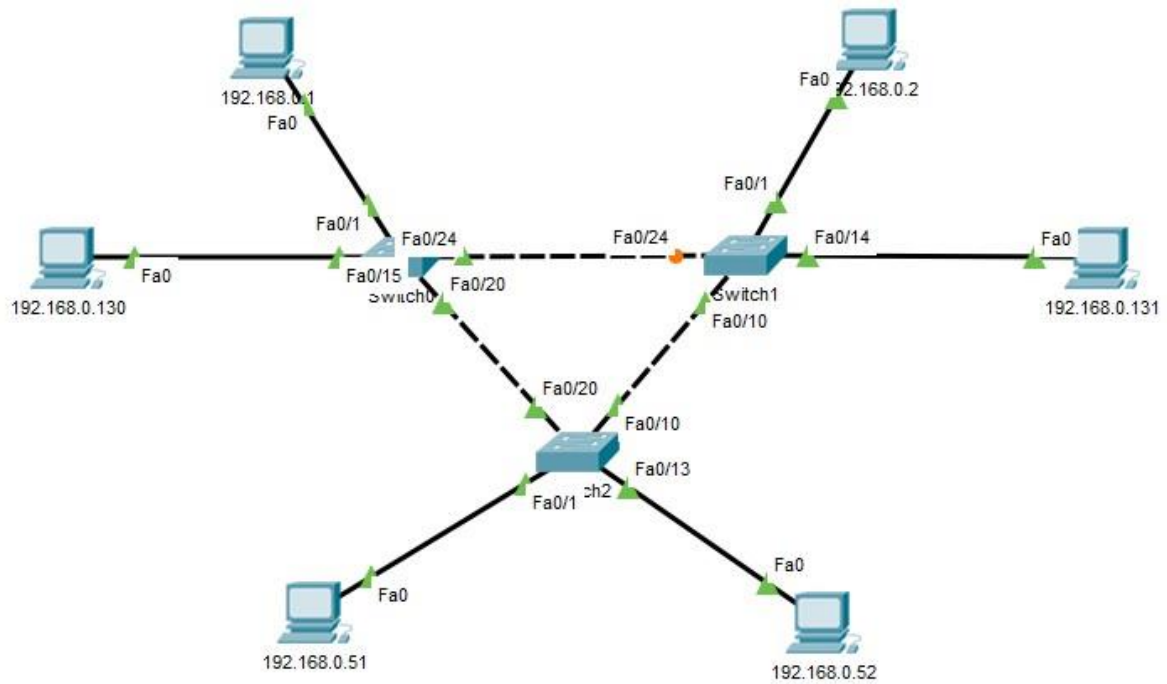
Vis.	Time(sec)	Last Device	At Device	Type
1.499	Switch1	PC9	Switch0	STP
1.899	--	Switch0	PC3	STP
1.900	Switch0	PC3	PC4	STP
1.900	Switch0	PC4	Switch0	STP
2.000	--	Switch0	PC1	STP
2.001	Switch0	PC1	PC2	STP
2.001	Switch0	PC2	PC2	STP
2.002	--	PC9	Switch2	ICMP
2.035	--	Switch2	PC8	STP
2.036	Switch2	PC8	Switch1	STP
2.036	Switch2	Switch1	Switch2	STP
2.037	Switch2	Switch1	PC7	STP
2.037	Switch1	PC7	Switch0	STP
2.651	--	Switch0	PC5	STP
2.652	Switch0	PC5	PC6	STP
2.652	Switch0	PC6	Switch1	STP
3.036	--	Switch1	PC7	STP

g. Analisa dari hasil pengamatan saya

Inti dari percobaan di atas adalah apabila 1 vlan bisa untuk melakukan ping, kalau beda vlan tidak bisa melakukan ping antar PC

Tugas Bab 3

1. Topologi.



2. VLAN.

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

Press RETURN to get started.

```
Switch0>show vlan
```

VLAN Name	Status	Ports
1 default	active	Fa0/1, 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, Fa0/21, Fa0/22 Fa0/23
2 VLAN2	active	Fa0/15
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 tokenring-default	active	

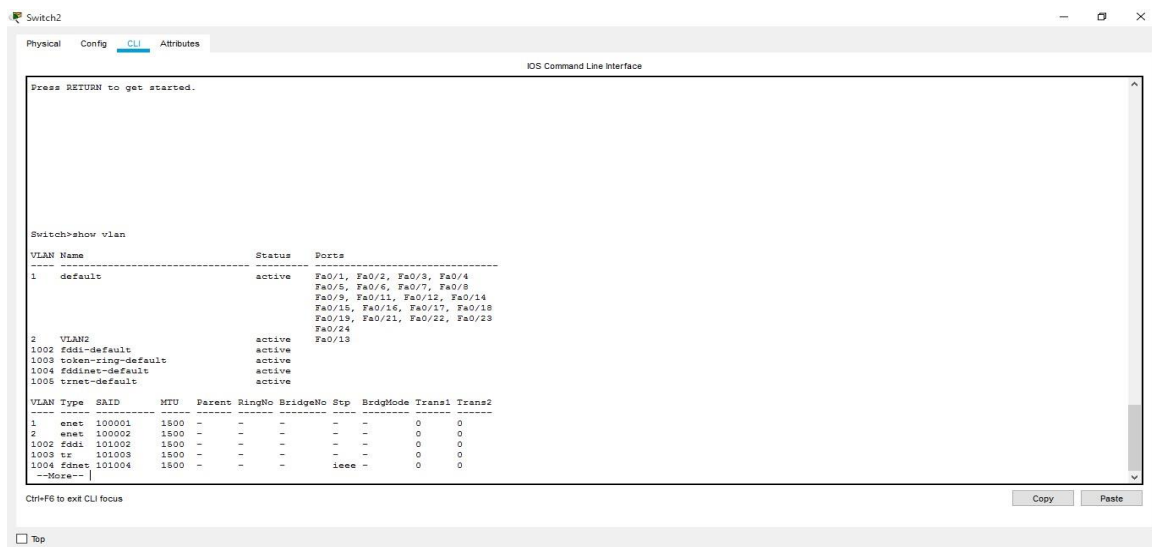
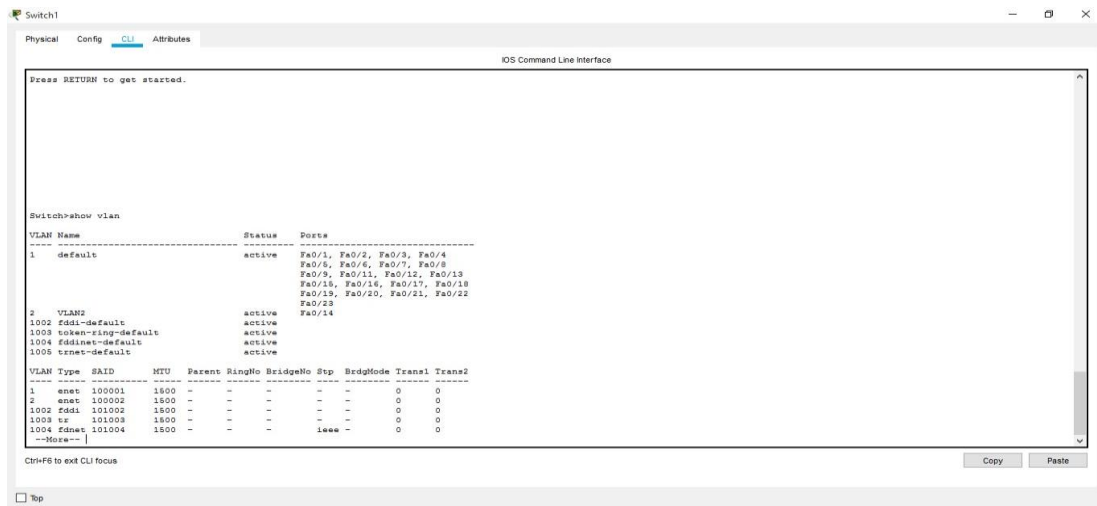
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BridgeMode	Trans1	Trans2
1	enans	1000001	1500	-	-	-	-	-	0	0
2	enans	1000002	1500	-	-	-	-	-	0	0
1002	fddi	1010002	1500	-	-	-	-	-	0	0
1003	tr	1010003	1500	-	-	-	-	-	0	0
1004	fddinet	1010004	1500	-	-	-	learn	-	0	0

--More--

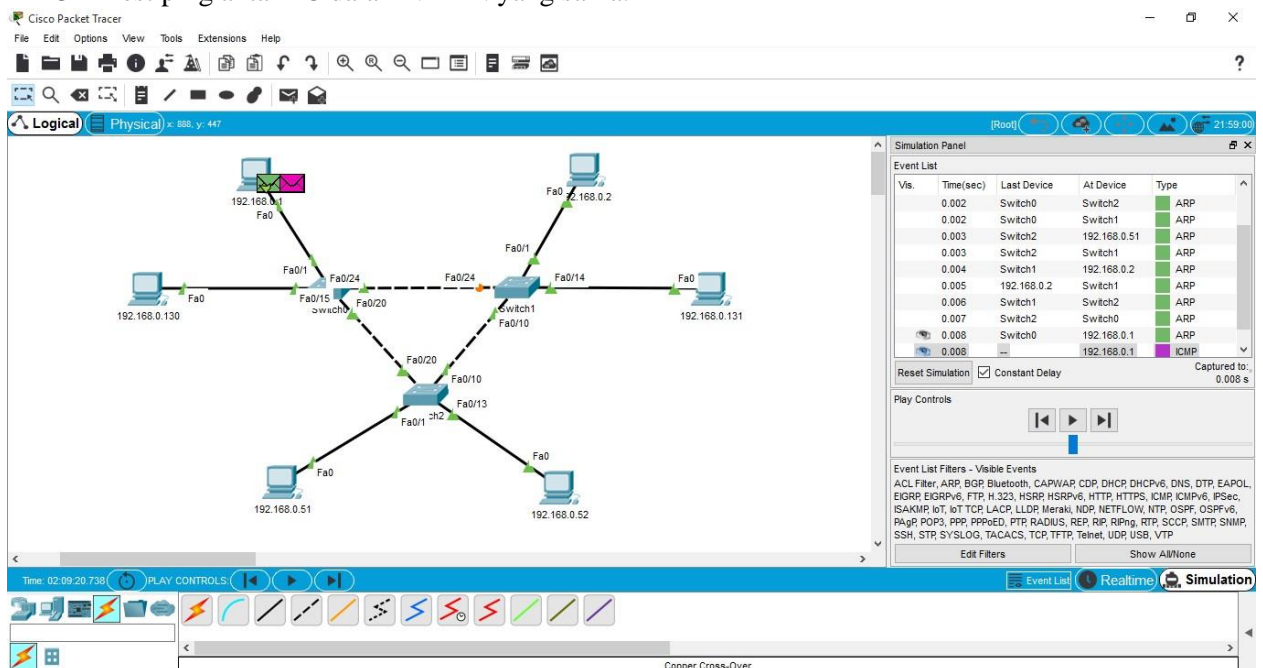
Ctrl-PB to exit CLI focus

Copy Paste

Top



3. Test ping antar PC dalam VLAN yang sama.



4. Test ping antar PC dalam VLAN berbeda.

