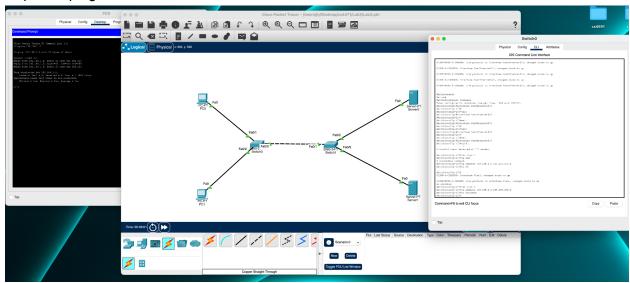
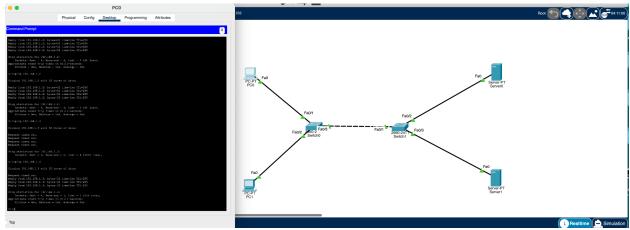
1. (1 pt) Verify that PC0 can successfully ping Switch0. From command prompt of PC0, submit output of "ping 192.168.1.2"

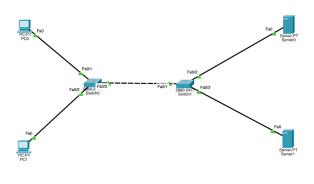


2. (1 pt) Create vlan2 on the switches. Configure the link between Switch0 and Switch1 as a trunk. Verify that PC0 can successfully ping Switch1. From command prompt of PC0, submit output of "ping 192.168.1.3"

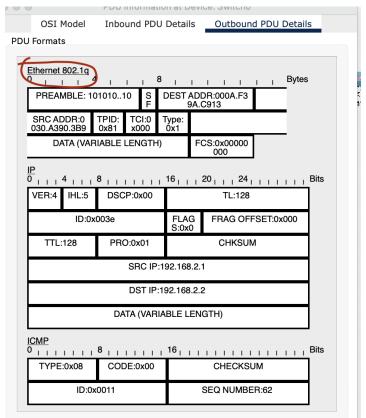


3. (1 pt) . Verify that PC0 can successfully ping Server0. From command prompt of PC0, submit output of "ping 192.168.1.4"





- 4. (3 pts) Verify that PC1 and Server1 are on vlan2. From command prompt of PC1, verify that you can continuously ping Server1(192.168.2.2). In Simulation mode, capture and decode the frame header of one of these ping packets as they traverse the trunk link.
- a. Submit a screenshot of this frame header with the 802.1g field circled.



b. What is the value of the tag protocol identifier (TPID)? What does this value signify? The value for the TPID is 0X8100 meaning it was forwarded if it is not tagged with this it will be discarded.

	TPID:0x8100	TCI:0x0002
Ш		

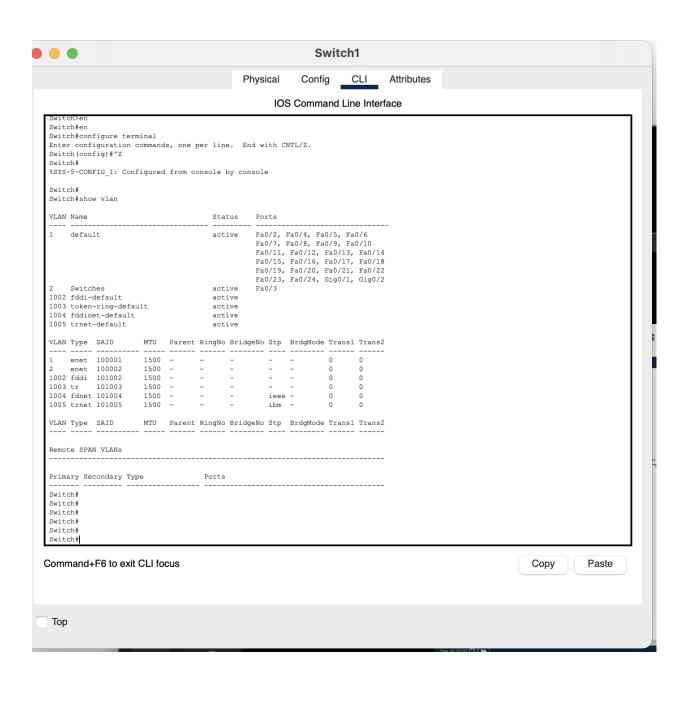
c. What is the value of the tag control information (TCI)? What does this value signify?

9		
	TPID:0x8100	TCI:0x0002

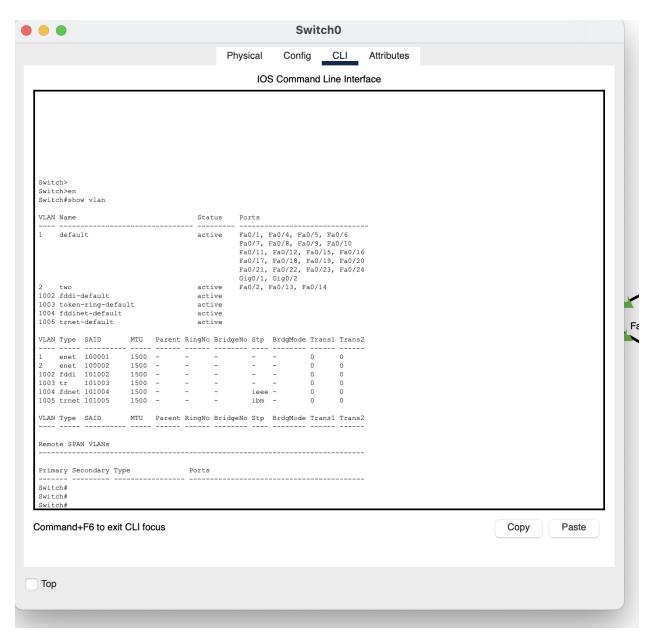
The value 0x0002 signifies the tag provider

- 5. (2 pts) On switch0 and switch1,
- a. submit output of "show vlan" and "show interfaces trunk"









- b. What is the value of the native vlan on the two switches? What does this mean? The native vlan 1 on the two switches and it supports untagged traffic while passing from one switch to another
- 6. (1 pt) From command prompt of PC1, try to ping Server0 (192.168.1.4). Explain why the ping packets fail. Suggest what modification is needed to the network in order that PC1 can ping Server0 (192.168.1.4).

The reason why it might not be able to ping server0 is because it cannot reach it because its connected on a different vlan. Where pc1 and server1 are both connected to vlan 2 and the other pc0 and server0 are both on vlan 1.

7. (1 pt) Submit entire output of "show running-config" on Switch0 and Switch1

