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CLASS : X

## Tugas Modul 6

### Kegiatan1

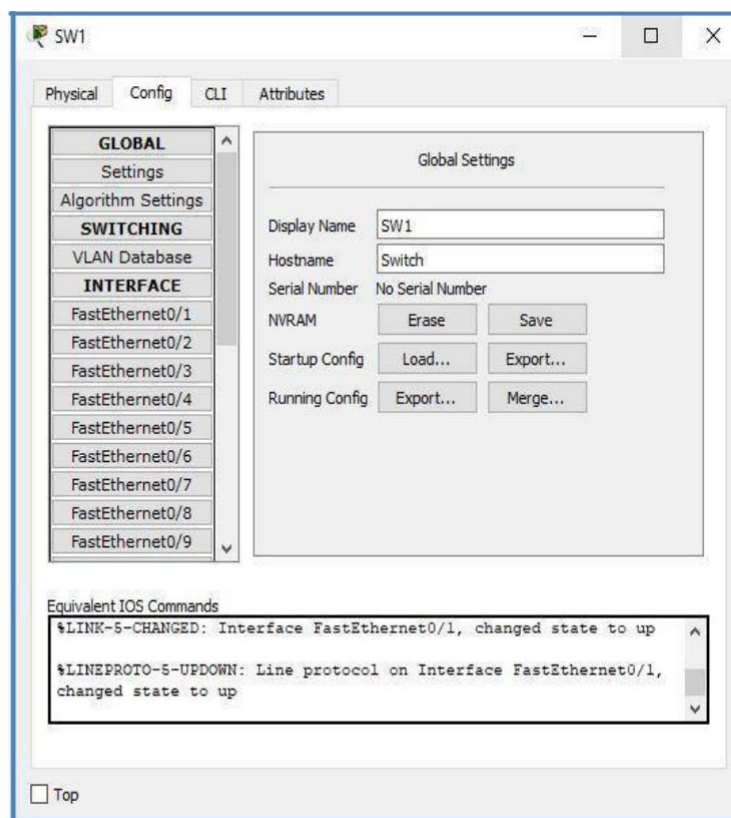
- **Tugas 1A:** Write the steps for making a topology!

ANSWER :

Choose switches 2950-24 for 3 units with 3 PCs. Then connect the 3 switches with the cable and connect the 3 PCs with the cable as well.

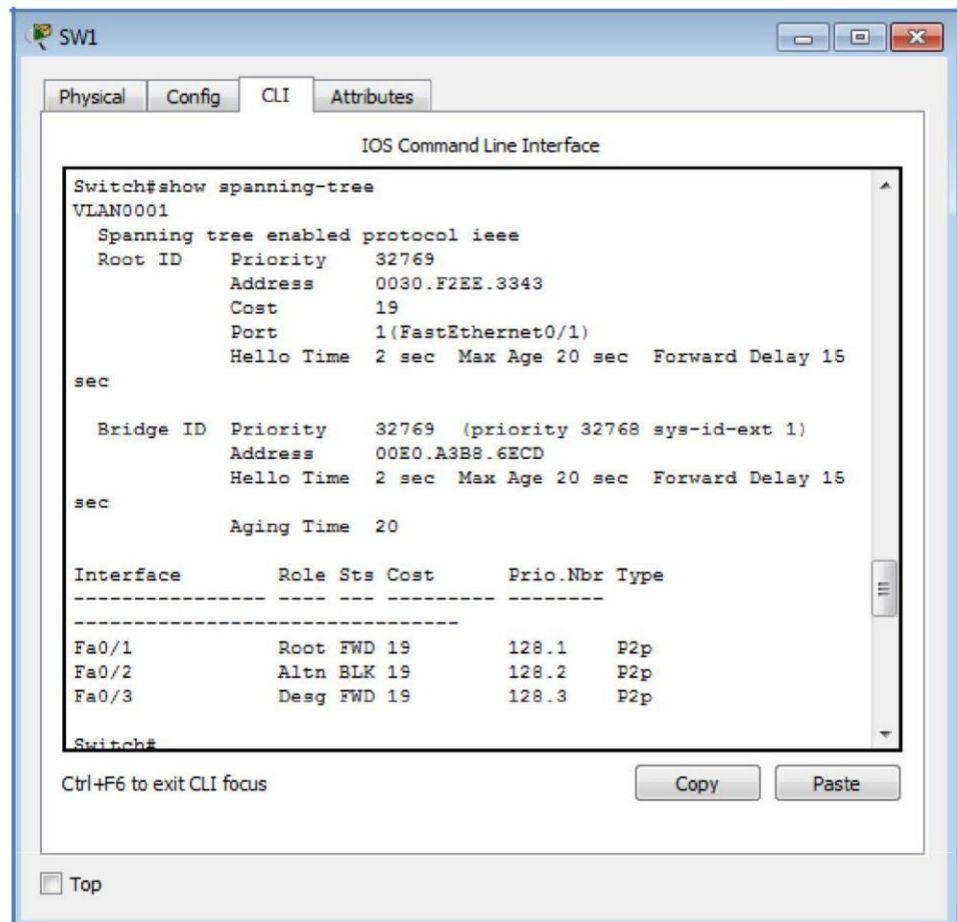
- **Tugas 2A :** Write the step for naming the switch starting from user mode!

ANSWER : Give the name of the switch, then click the switch you want to name, then select config and fill in the global settings column, or you can directly by clicking on the switch and just change the name.

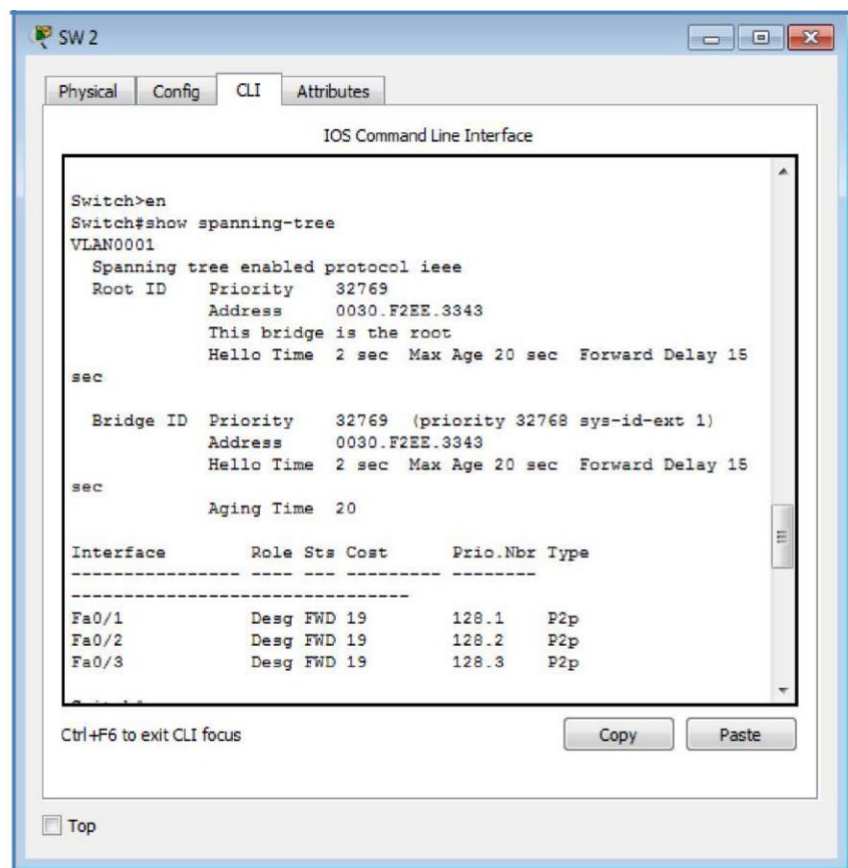


- **Tugas 4A** : By default, capture each STP switch status display (SW1, SW2, and SW3)

a. SW 1



b. SW2



c. SW3

```

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0030.F2EE.3343
             Cost        19
             Port        2 (FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     0060.3EA1.7E03
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec

             Aging Time  20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/1                    Desg FWD 19        128.1   P2p
Fa0/2                    Root FWD 19        128.2   P2p
Fa0/3                    Desg FWD 19        128.3   P2p

Switch#
%LINK-S-CHANGED: Interface FastEthernet0/3, changed state to down

Ctrl+F6 to exit CLI focus
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```

**Tugas 4B** : For each switch, fill in the following table:

□ SW 1

No	Variabel	Nilai	Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343	Fa 0/1	Root	FWD
2.	Priorty	32769	Fa 0/2	Altn	BLK
3.	MAC Address	00E0.A3B8.6ECD	Fa 0/3	Desg	FWD
4.	Bridge ID	32769 : 00E0. A3B8.6ECD			
5.	Cost(0/1:0/2:0/3)	0/1 = 19 0/2 = 19 0/3 = 19			
6.	Hello Time	2 sec			
7.	Max Age	20 sec			

8.	Forward Delay	15 sec			
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b. SW 2

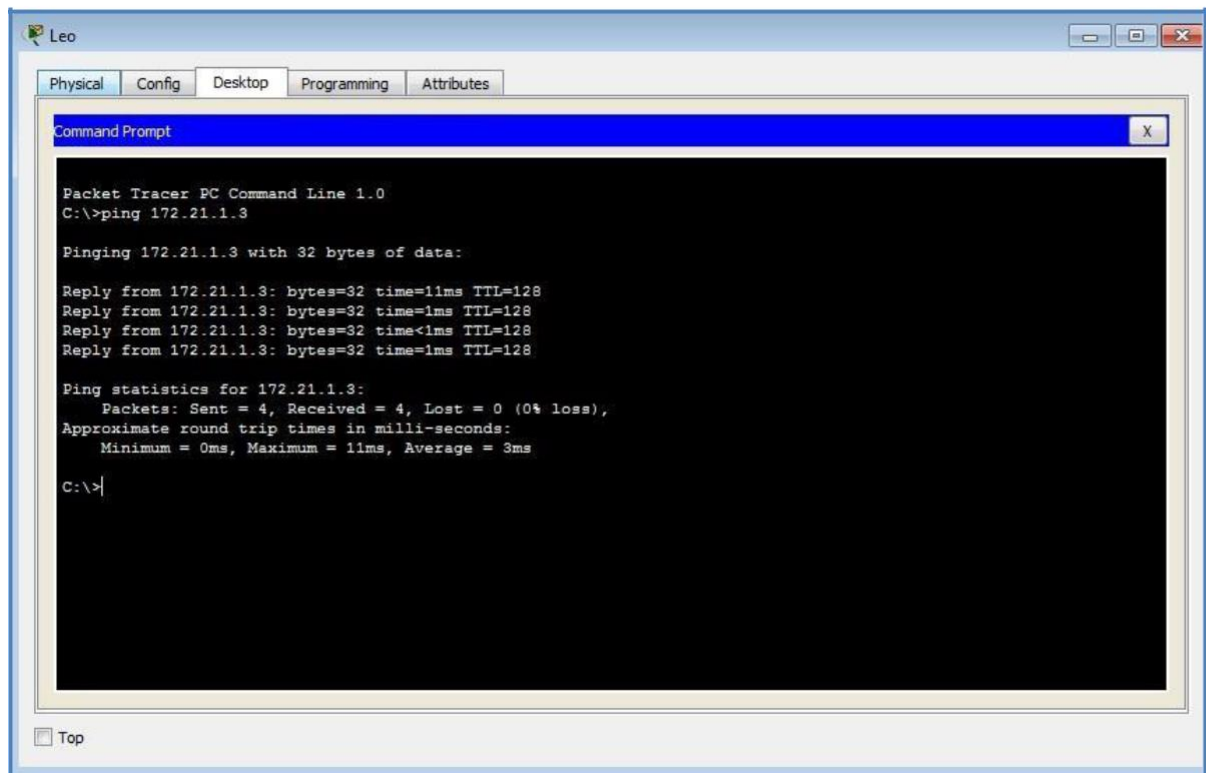
No	Variabel	Nilai		Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343		Fa 0/1	Desg	FWD
2.	Priorty	32769		Fa 0/2	Desg	FWD
3.	MAC Address	0030.F2EE.3343		Fa 0/3	Desg	FWD
4.	Bridge ID	32769 : 0030.F2EE.3343				
5.	Cost(0/1:0/2:0/3)	0/1 = 19 0/2 = 19 0/3 = 19				
6.	Hello Time	2 sec				
7.	Max Age	20 sec				
8.	Forward Delay	15 sec				

c. SW3

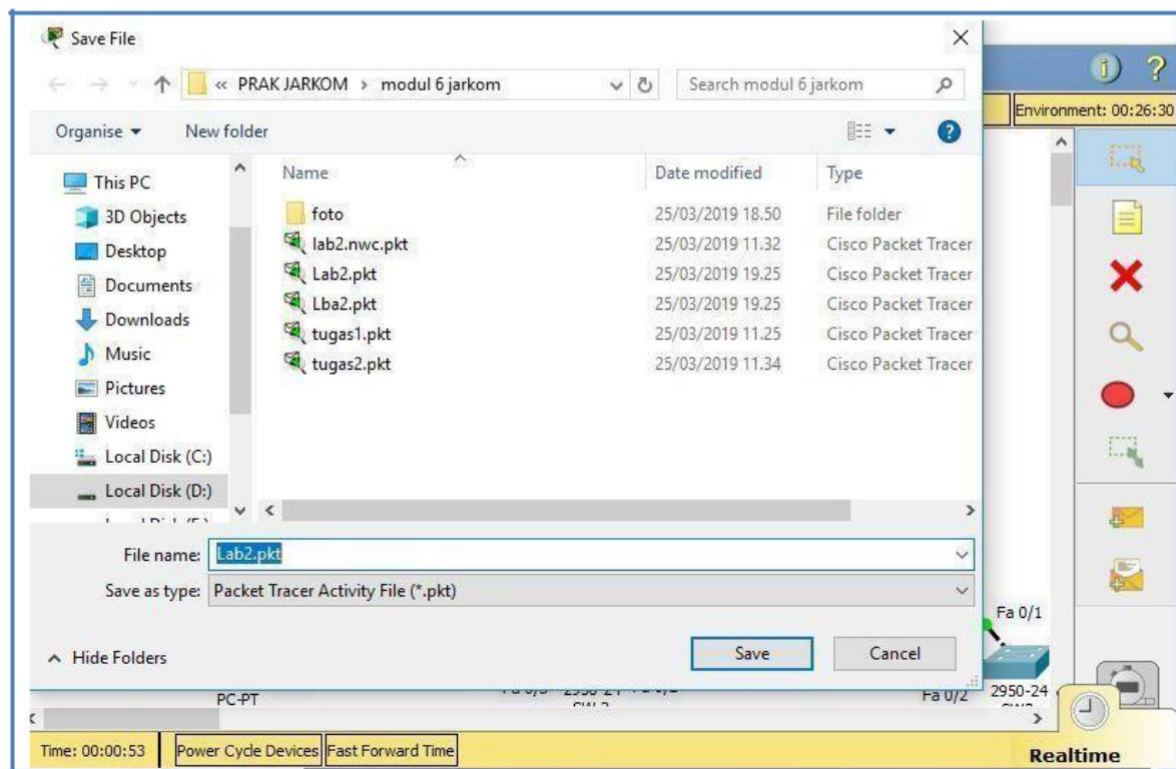
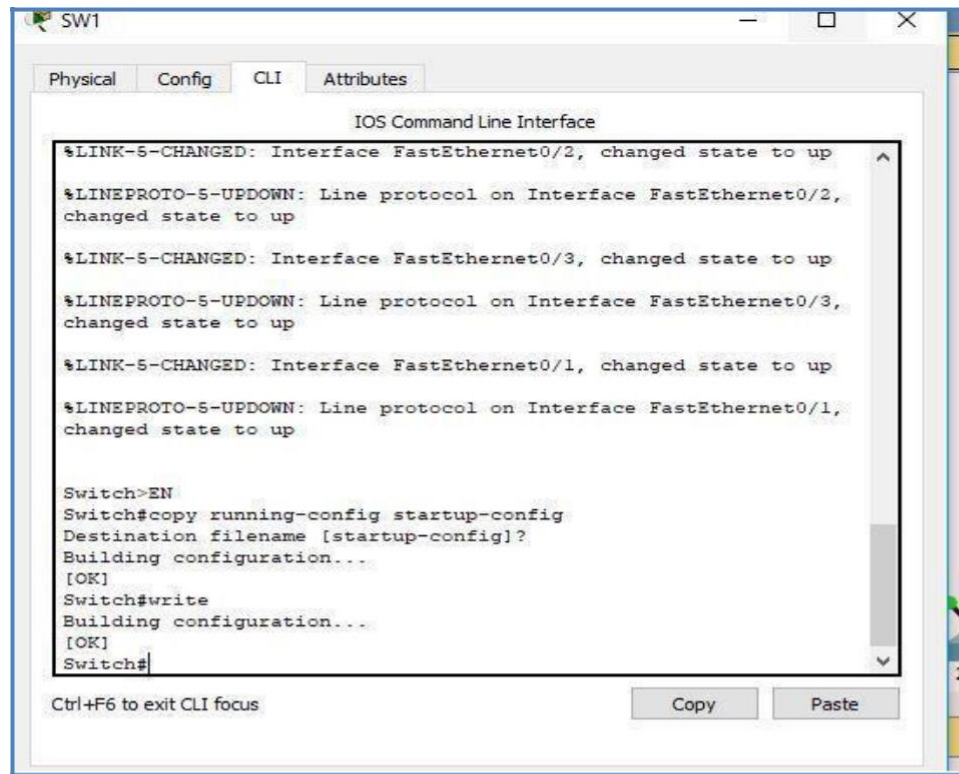
No	Variabel	Nilai		Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343		Fa 0/1	Desg	FWD
2.	Priorty	32769		Fa 0/2	Root	FWD
3.	MAC Address	0060.3EA1.7E03		Fa 0/3	Desg	FWD
4.	Bridge ID	32769 : 0060.3EA1.7E03				
5.	Cost(0/1:0/2:0/3)	0/1 = 19 0/2 = 19 0/3 = 19				
6.	Hello Time	2 sec				
7.	Max Age	20 sec				
8.	Forward Delay	15 sec				

- **Tugas 4C** : Under these default conditions, which switches and ports are:
  - Be *root bridge* :SW2
  - Be *designated bridge* :SW1
  - Be *root port* : SW 1 Fa 0/1 dan SW 3 Fa 0/3

- Be *designated port* : SW 1 Fa 0/3 , SW 2 (Fa 0/1 ;0/2;0/3) dan
- SW 3 (Fa 0/1, Fa 0/3)
- **Tugas 4D** : Under these default conditions, and which ports are:
  - Being in a forwarding state : SW 1 (Fa 0/1;0/3), SW 2 (Fa 0/1;0/2;0/3) SW 3 (Fa 0/1;0/2;0/3)
  - Being in a *blocking state* : SW 1 (Fa 0/2)
- **Tugas 5A** : Write steps to do the ping command.  
 Answer : Select one PC then click the PC, then select the desktop then select the command prompt then type ping 172.21.1.3 (according to the ip on the pc you want to ping)

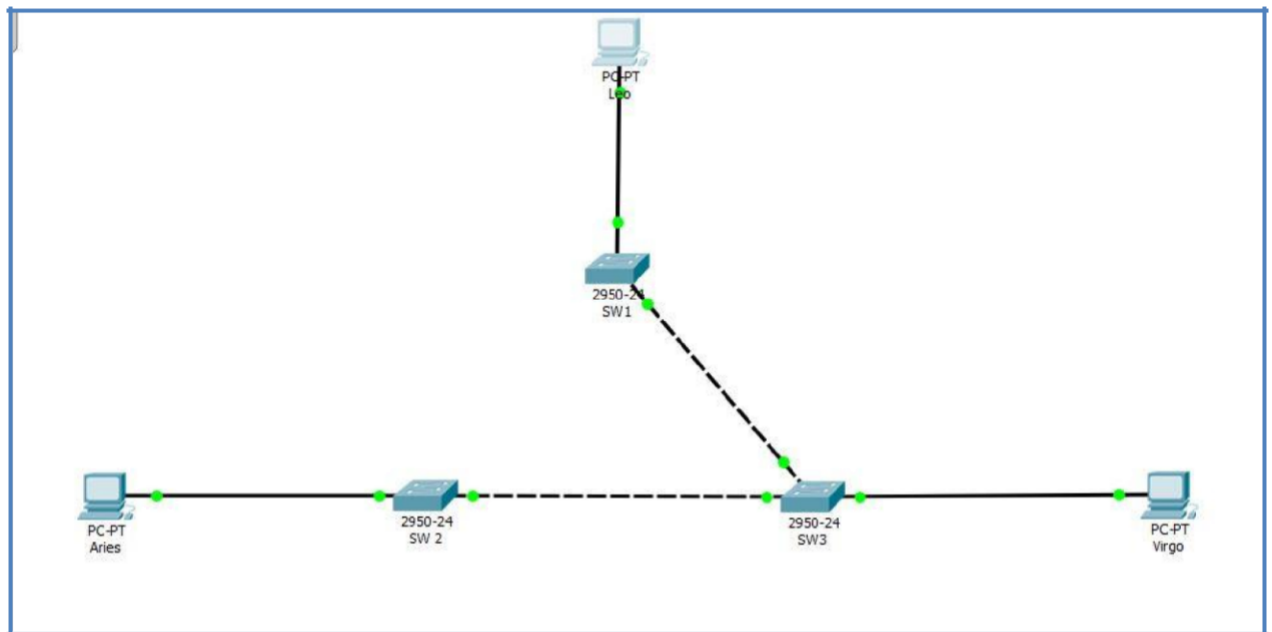


- **Tugas 6A** : Write Steps to save network configuration.  
 Answer :  
 Click the switch then select CLI to enter user / privillage mode then write # copy running-config startup-config Then enter.  
 Save the network configuration by name lab2.pkt



## Kegiatan2.

- **Tugas 9A** : Work on assignments as in the lab steps assignment.4.



1. Melihat status STP pada masing-masing switch.

- SW 1

SW1

Physical

Config

CLI

Attributes

IOS Command Line Interface

Switch>en  
Switch#show spanning-tree  
VLAN0001  
Spanning tree enabled protocol ieee  
Root ID    Priority    32769  
          Address    0030.F2EE.3343  
          Cost        38  
          Port        2(FastEthernet0/2)  
          Hello Time 2 sec    Max Age 20 sec    Forward Delay 15  
sec  
  
          Bridge ID   Priority    32769    (priority 32768 sys-id-ext 1)  
          Address    00E0.A3B8.6ECD  
          Hello Time 2 sec    Max Age 20 sec    Forward Delay 15  
sec  
  
          Aging Time 20  
  
Interface        Role    Sts    Cost        Prio.Nbr    Type  
-----  
Fa0/3            Desg   FWD   19        128.3      P2p  
Fa0/2            Root   FWD   19        128.2      P2p  
Switch#

Ctrl+F6 to exit CLI focus

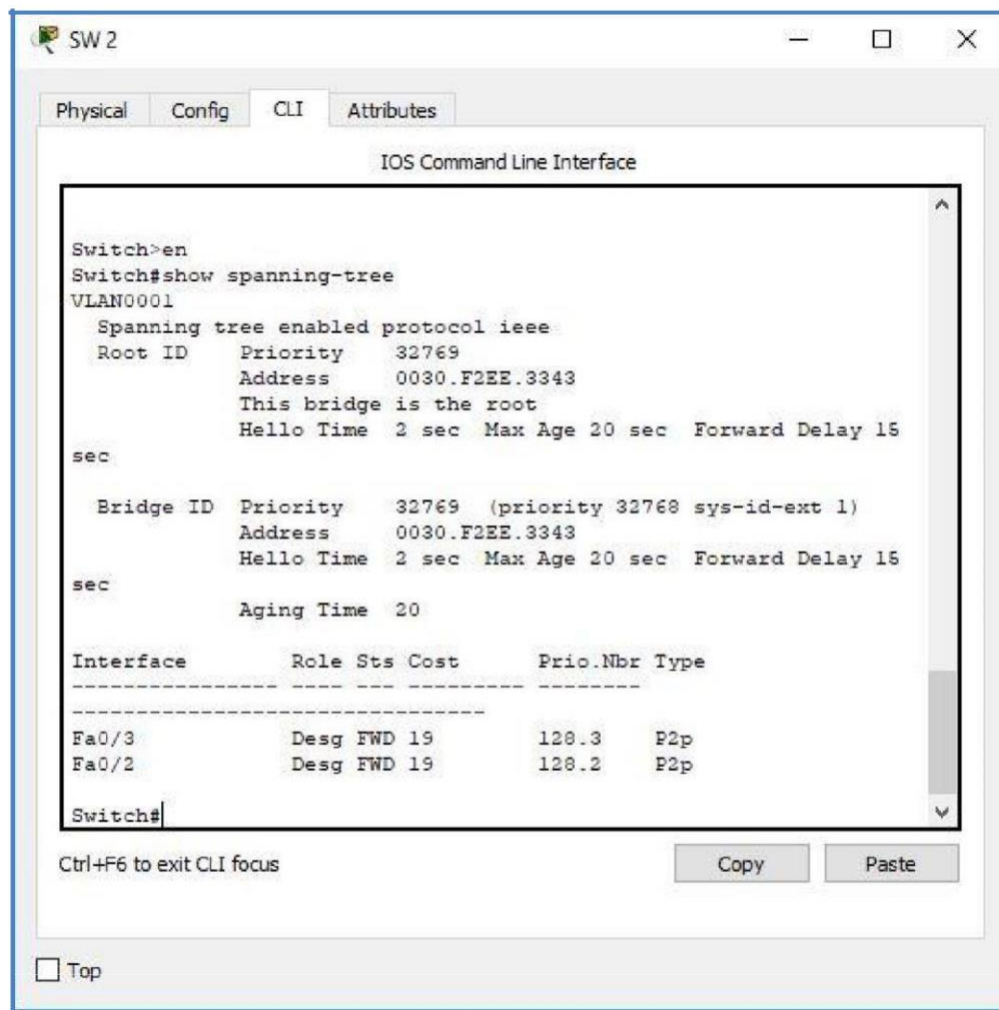
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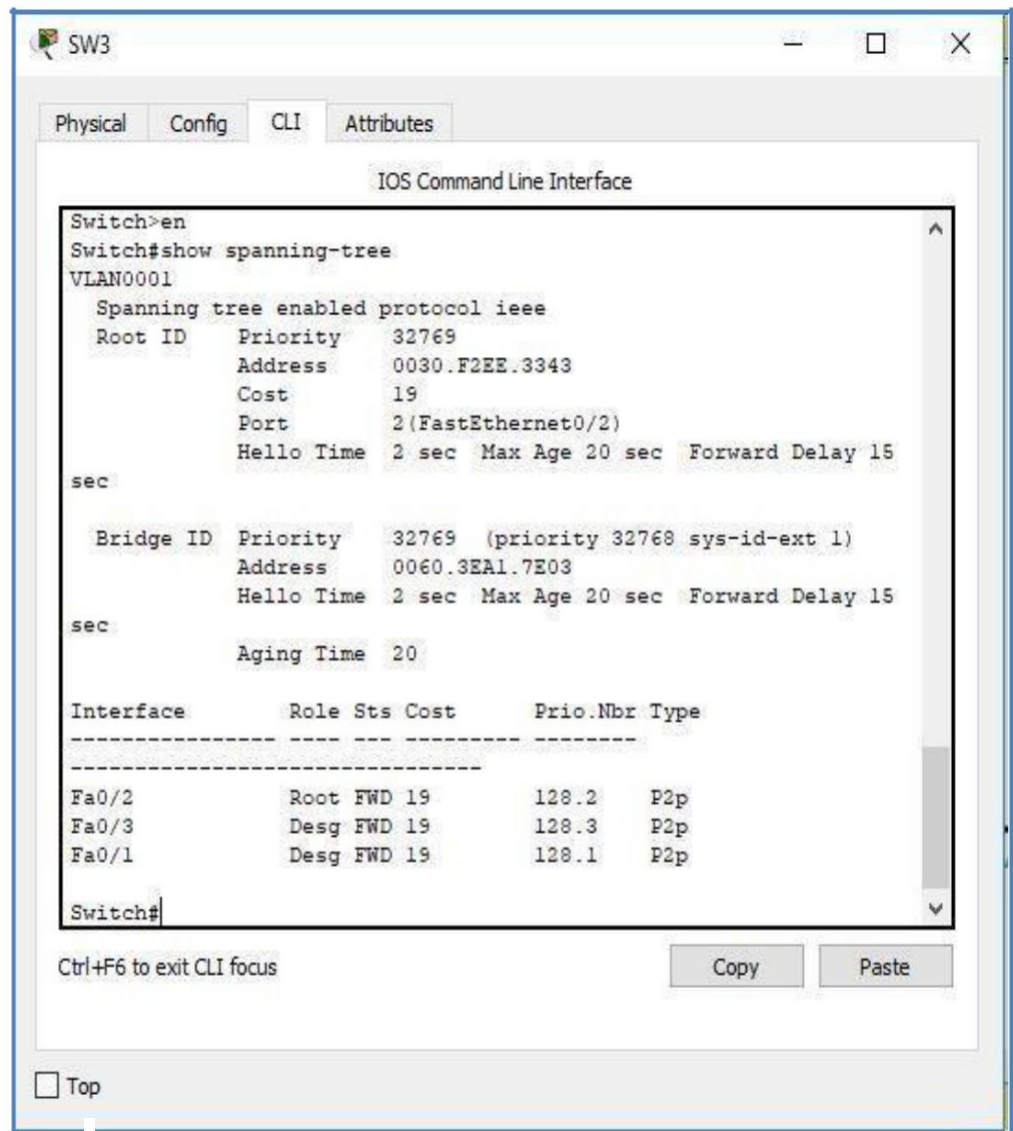
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- SW2



- SW3



• SW1

No	Variabel	Nilai	Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343	Fa 0/3	Desg	FWD
2.	Priorty	32769	Fa 0/2	Root	FWD
3.	MAC Address	00E0.A3B8.6ECD			
4.	Bridge ID	32769: 00E0.A3B8.6ECD			
5.	Cost(0/1:0/2:0/3)	0/3 = 19 0/2 = 19			
6.	Hello Time	2 sec			

7.	Max Age	20 sec			
8.	Forward Delay	15 sec			

- SW 2

No	Variabel	Nilai		Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343		Fa 0/3	Desg	FWD
2.	Priorty	32769		Fa 0/2	Desg	FWD
3.	MAC Address	0030.F2EE.3343				
4.	Bridge ID	32769 : 0030.F2EE.3343				
5.	Cost(0/1:0/2:0/3)	0/3 = 19 0/2 = 19				
6.	Hello Time	2 sec				
7.	Max Age	20 sec				
8.	Forward Delay	15 sec				

- SW 3

No	Variabel	Nilai		Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343		Fa 0/2	Root	FWD
2.	Priorty	32769		Fa 0/3	Desg	FWD
3.	MAC Address	0060.3EA1.7E03		Fa 0/1	Desg	FWD
4.	Bridge ID	32769 : 0060.3EA1.7E03				

5.	Cost(0/1:0/2:0/3)	0/2 = 19 0/3 = 19 0/1 = 19			
6.	Hello Time	2 sec			
7.	Max Age	20 sec			
8.	Forward Delay	15 sec			

- Tugas 4C** : Under these default conditions, which switches and ports are:
  - Be *root bridge* : SW2
  - Be *designated bridge* : SW 1 dan SW 3
  - Be *root port* : SW 1 Fa 0/2 dan SW 3 Fa 0/2
  - Be *designated port* : SW 1 Fa 0/3 , SW 2 (Fa 0/2;0/3) dan - SW 3 (Fa 0/1, Fa 0/3)
- Tugas 4D**: Pada kondisi default tersebut, dan port mana saja yang :
  - Being in a forwarding state : SW 1 (Fa 0/2;0/3), SW 2 (Fa 0/2;0/3) SW 3 (Fa 0/1;0/2;0/3)
  - Being in a *blocking* state : Tidak ada switch dan port dalam keadaan blocking