COMPUTER NETWORKS PRACTICUM 6



By:

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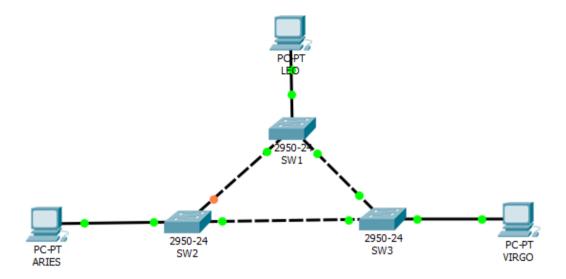
Class: X

INFORMATION TECHNOLOGY FACULTY OF COMMUNICATION AND INFORMATICS MUHAMMADIYAH UNIVERSITY OF SURAKARTA

2020

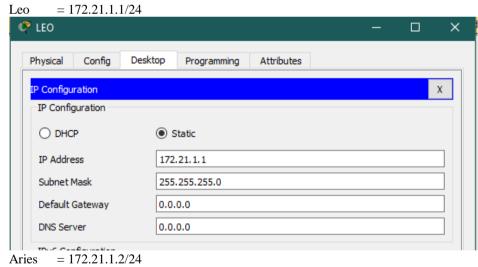
Activity 1

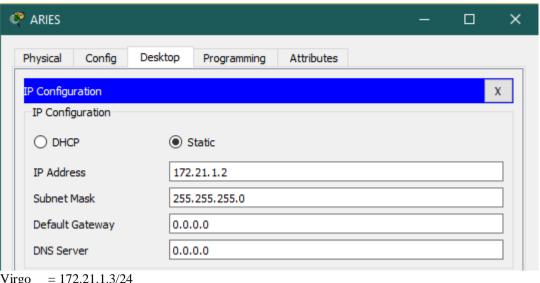
1A. Create Topology



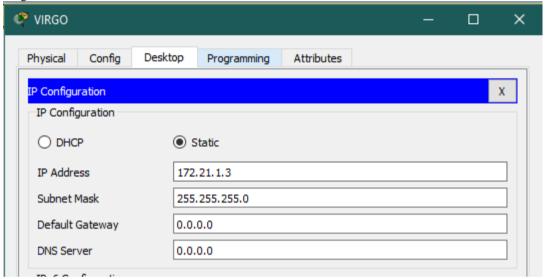
2A. Given switch name

Configuration each PC with IP Address:



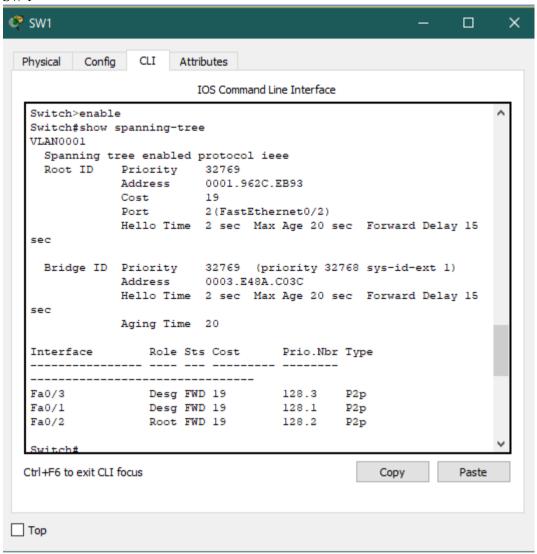


Virgo = 172.21.1.3/24

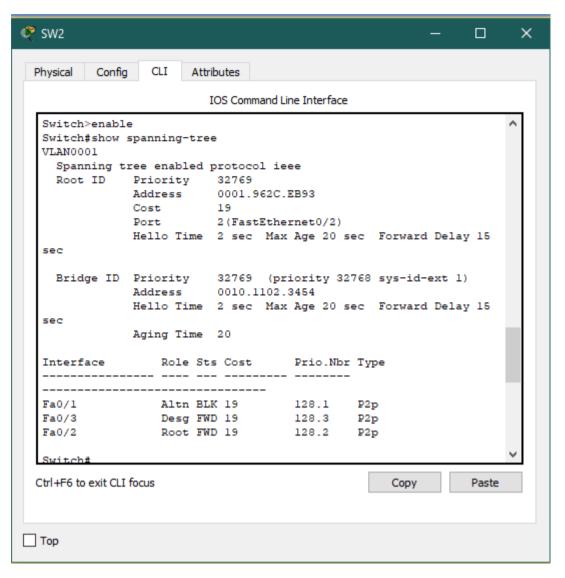


4A. Capture status STP Switch display

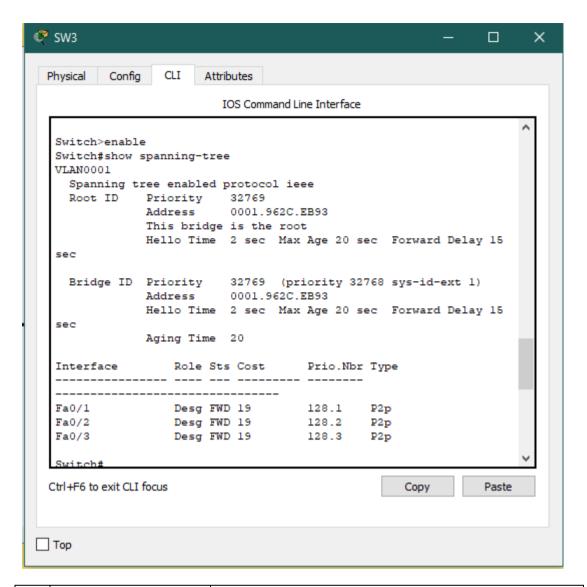
- SW 1



no	variable	value
1	Root id	32769 : 0001.962C.EB93
2	Priority	32769
3	Mac address	0003.E48A.C03C
4	Bridge id	32769 : 0003.E48A.C03C
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello time	2 sec
7	maxAge	20 sec
8	Forward Delay	15 sec



no	variable	value
1	Root id	32769 : 0001.962c.eb93
2	Priority	32769
3	Mac address	0010.1102.3454
4	Bridge id	32769 : 0010.1102.3454
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello time	2 sec
7	maxAge	20 sec
8	Forward Delay	15 sec



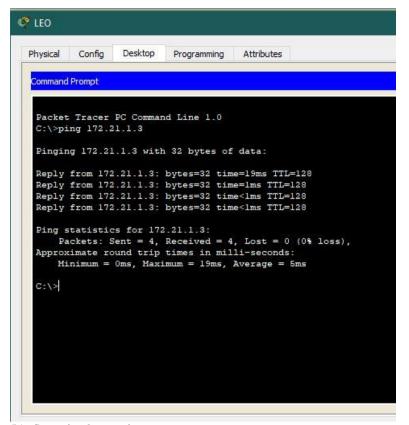
no	variable	Value
1	Root id	32769 : 0001.962C.EB93
2	Priority	32769
3	Mac address	0001.962C.EB93
4	Bridge id	32769 : 0001.962C.EB93
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello time	2 sec
7	maxAge	20 sec
8	Forward Delay	15 sec

4C.

- Root bridge = sw3
- Design bridge = sw1, sw2
- Root port = sw1 Fa0/2, Sw2 Fa0/2
- Design port = sw1 (Fa0/1, Fa0/3), sw2 Fa0/3, sw3 (Fa0/1, Fa0/2, Fa0/3)

4D.

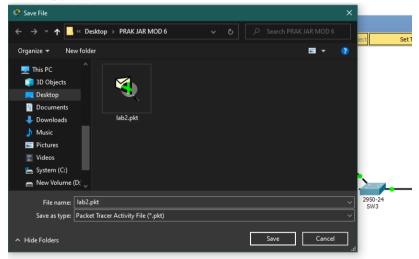
- Forwarding = Sw1(fa0/1, fa0/2, fa0/3), sw2(fa0/2, fa0/3), sw3(fa0/1, fa0/2, fa0/3)
- Blocking = sw2 fa0/1
- Ping Leo to Virgo



5A. Step ping leo to virgo = ping 172.21.1.3

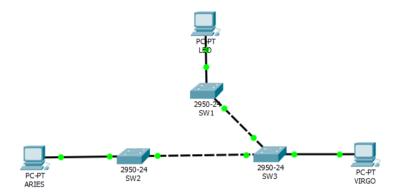
6A. Step to save configguration network

= File->Save as

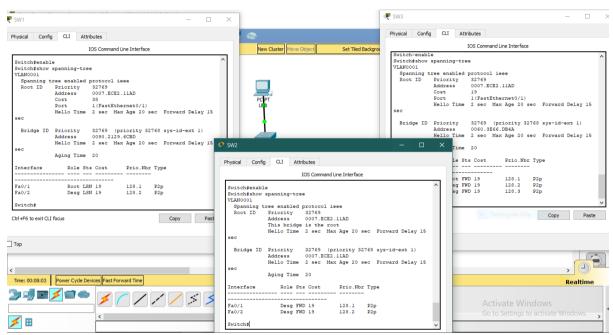


Activity 2

a. Create topology



9A.



- SW1

5111		
no	variable	Value
1	Root id	32769 : 0007.ECE2.11AD
2	Priority	32769
3	Mac address	0090.2129.6CBD
4	Bridge id	32769: 0090.2129.6CBD
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello time	2 sec
7	maxAge	20 sec
8	Forward Delay	15 sec

	- · · -		
no	variable	Value	
1	Root id	32769 : 0007.ECE2.11AD	
2	Priority	32769	
3	Mac address	0007.ECE2.11AD	
4	Bridge id	32769 : 0007.ECE2.11AD	
5	Cost (0/1;0/2;0/3)	19;19;19	
6	Hello time	2 sec	
7	maxAge	20 sec	
8	Forward Delay	15 sec	

no	variable	Value
1	Root id	32769 : 0007.ECE2.11AD
2	Priority	32769
3	Mac address	0060.3E66.DB4A
4	Bridge id	32769 : 0060.3E66.DB4A
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello time	2 sec
7	maxAge	20 sec
8	Forward Delay	15 sec

- Root bridge = sw2
- Design bridge = sw1, sw3
- Root port = sw1 fa0/1, sw3 fa0/1
- Design port = sw1 fa 0/2, sw2 (fa0/1,fa0/2), sw3 (fa0/2, fa0/3)
- Forwarding = sw2 (fa0/1,fa0/2), sw3(fa0/1, fa0/2, fa0/3)
- Blocking = -
- Learning = sw1 fa0/1
- Listening = sw 1 fa/02
- Ping Leo to Virgo

