DATABASE SYSTEM COMPUTER NETWORK



Disusun oleh:

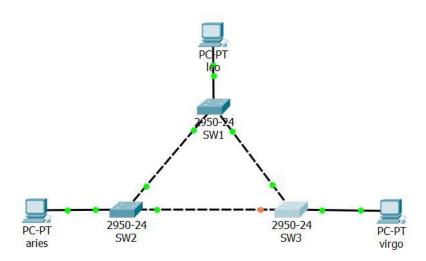
Aulia Septianingrum Revyana Nurcahyani L200183070

INFORMATION STUDY PROGRAM

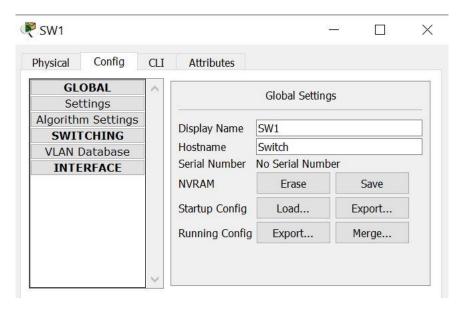
COMMUNICATION AND INFORMATION FACULTY

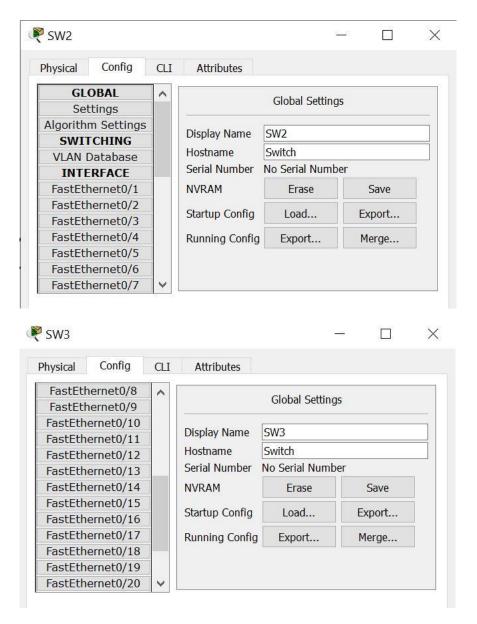
MUHAMMADIYAH UNIVERSITY OF SURAKARTA

- C. Practicum Activity
- 1. Activity 1. Topology 1
 - a. Make a topology using the Catalyst 2950 switch

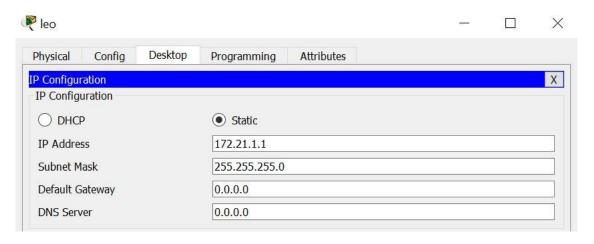


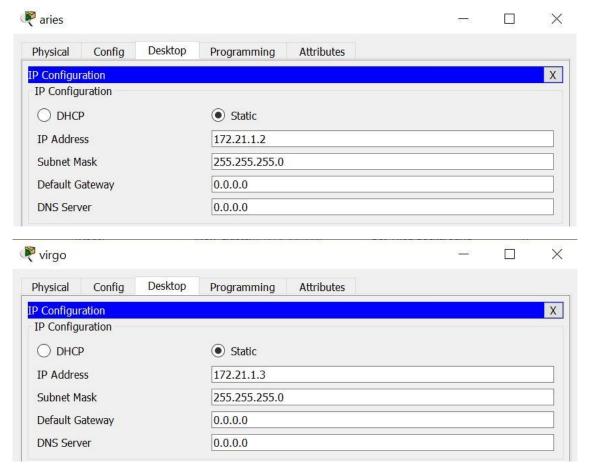
b. Name each switch SW1, SW2 and SW3



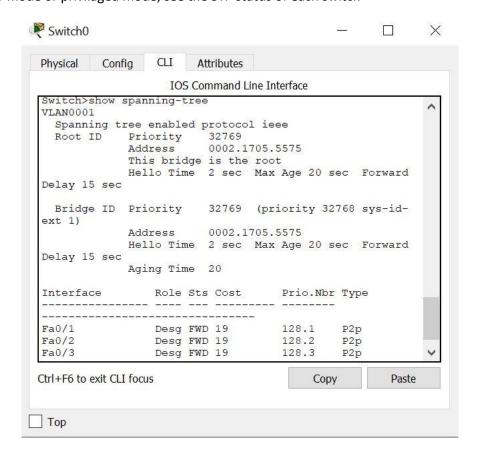


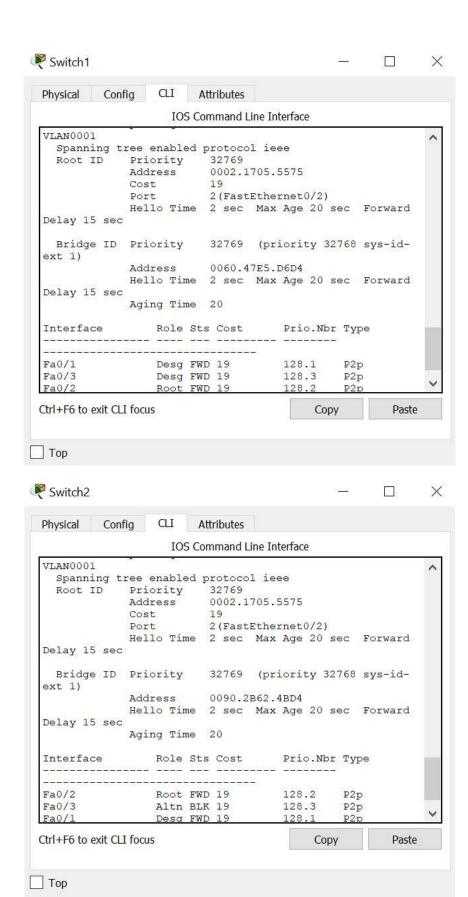
c. Configure each PC with an IP address





d. In user mode or privilaged mode, see the STP status of each switch





SW1

No.	Variabel	Nilai	
1	Root ID	32769:0002.1705.5575	
2	Priority	32769	
3	Mac Address	0002.1705.5575	
4	Bridge ID	32769:0002.1705.5575	
5	Cost (0/1,0/2,0/3)	(19,19,19)	
6	Hello Time	2 sec	
7	Max Age	20 sec	
8	Forward Delay	15 sec	

SW2

No.	Variabel	Nilai		
1	Root ID	32769:0002.1705.5575		
2	Priority	32769		
3	Mac Address	0060.4765.D6D4		
4	Bridge ID	32769:0060.47E5.D6D4		
5	Cost (0/1,0/2,0/3)	(19,19,19)		
6	Hello Time	2 sec		
7	Max Age	20 sec		
8	Forward Delay	15 sec		

SW3

NIa	\/a wia bal	Ni:la:	
No.	Variabel	Nilai	
1	Root ID	32769:0002.1705.5575	
2	Priority	32769	
3	Mac Address	0090.2B62.4BD4	
4	Bridge ID	32769:0090.2B62.4BD4	
5	Cost (0/1,0/2,0/3)	(19,19,19)	
6	Hello Time	2 sec	
7	Max Age	20 sec	
8	Forward Delay	15 sec	

4C.

• Root bridge : SW3

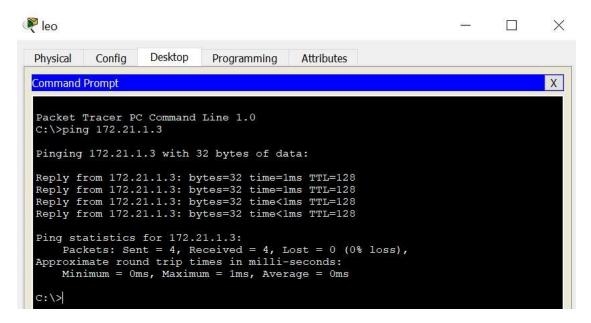
• Designated bride : SW1 and SW2

• Root port : SW1(Fa0/3), SW2(Fa0/2)

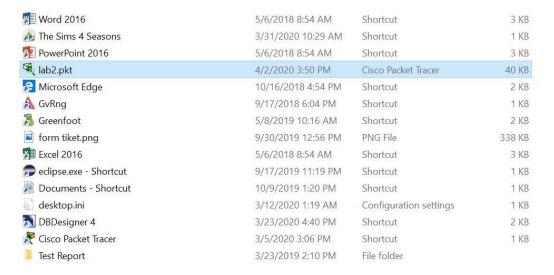
• Designated port : SW1(Fa0/1), SW2(Fa0/1, Fa0/2), SW3(Fa0/1, Fa0/2, Fa0/3)

4D.

- The port is in the forwarding state: SW1(Fa0/1, Fa0/2), SW2(Fa0/1, Fa0/2, Fa0/3), SW3(Fa0/1, Fa0/2, Fa0/3)
- Port yang berada pada keadan blocking: SW1(Fa0/2)
- e. Ping leo to virgo

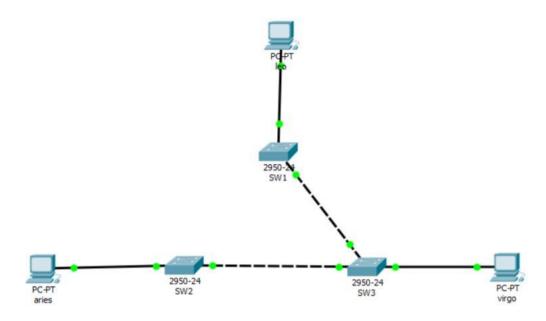


f. Save the network configuration with the name lab2.pkt

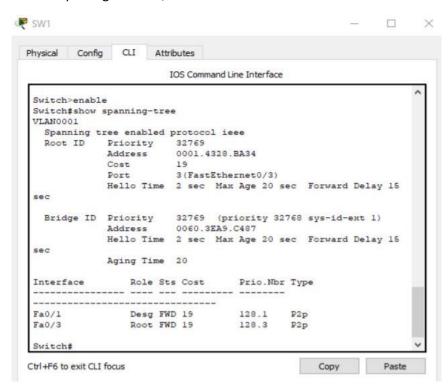


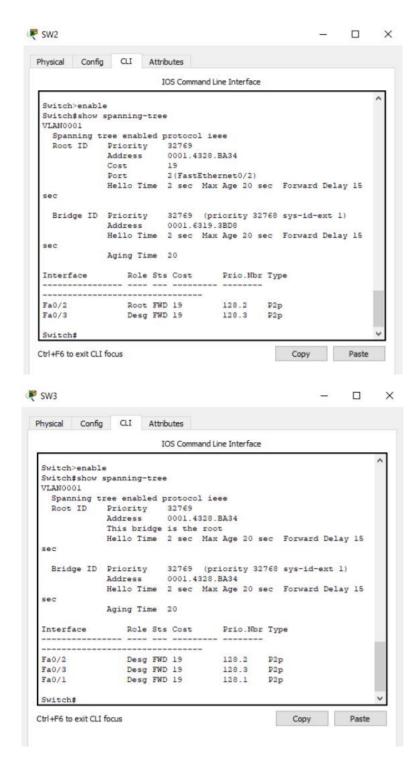
2. Activity 2. Topology 2

a. Make a topology



b. In user mode or privilaged mode, see the STP status of each switch





SW1

No	Mariah al	Nile:		
No.	Variabel	Nilai		
1	Root ID	32769:0001.4328.BA34		
2	Priority	32769		
3	Mac Address	0060.3EA9.C487		
4	Bridge ID	32769 : 0060.3EA9.C487		
5	Cost (0/1,0/3)	(19,19)		
6	Hello Time	2 sec		
7	Max Age	20 sec		
8	Forward Delay	15 sec		

SW2

No.	Variabel	Nilai	
1	Root ID	32769 : 0001.4328.BA34	
2	Priority	32769	
3	Mac Address	0001.6319.3BD8	
4	Bridge ID	32769 : 0001.6319.3BD8	
5	Cost (0/2,0/3)	(19,19)	
6	Hello Time	2 sec	
7	Max Age	20 sec	
8	Forward Delay	15 sec	

SW3

No.	Variabel	Nilai	
1	Root ID	32769 : 0001.4328.BA34	
2	Priority	32769	
3	Mac Address	0001.4328.BA34	
4	Bridge ID	32769 : 0001.4328.BA34	
5	Cost (0/1,0/2,0/3)	(19,19,19)	
6	Hello Time	2 sec	
7	Max Age	20 sec	
8	Forward Delay	15 sec	

> Root bridge: SW3

> Designated bride: SW1 and SW2

Root port : SW1(0/3), SW2(0/2)

Designated port: SW1(0/1), SW2(0/3), SW3(0/1, 0/2 0/3)

 \triangleright The port is in the forwarding state : SW1(0/1, 0/3), SW2(0/2, 0/3), SW3(0/1, 0/2,0/3). So, all switches are forwarded,

> Port yang berada pada keadan blocking: no ports are blocked

c. Ping from PC Leo to PC Virgo

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Physical Config Desktop Programming Attributes

Command Prompt

X

Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=121ms TTL=128
Reply from 172.21.1.3: bytes=32 time<lms TTL=128
Reply from 172.21.1.3: bytes=32 time=2ms TTL=128
Reply from 172.21.1.3: bytes=32 time=2ms TTL=128
Reply from 172.21.1.3: bytes=32 time=2ms TTL=128

Ping statistics for 172.21.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 121ms, Average = 31ms

C:\>
```