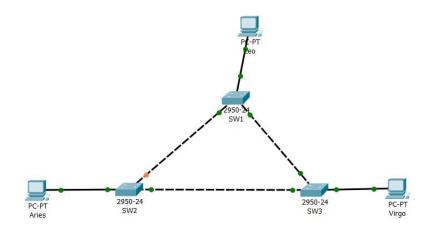
Modul 6 Spanning Tree Protocol

Sufyan Habib Zaini L200184098

Ε

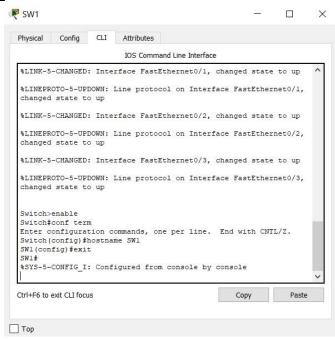
1. Kegiatan 1. Topologi 1

a) Membuat Topologi Jaringan

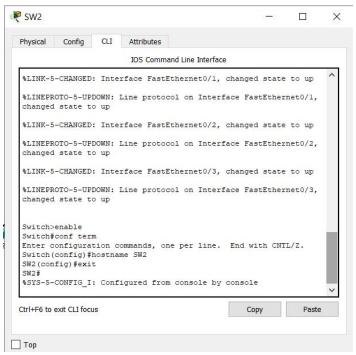


Tugas 1A:

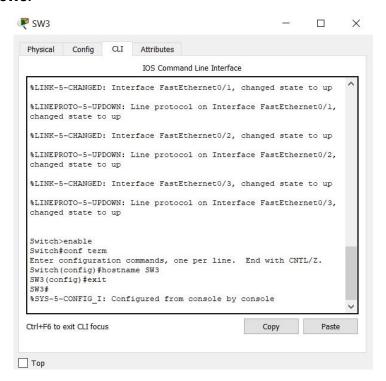
- b) Beri nama masing-masing switch
 - i. SW1



ii. SW2



iii. SW3.



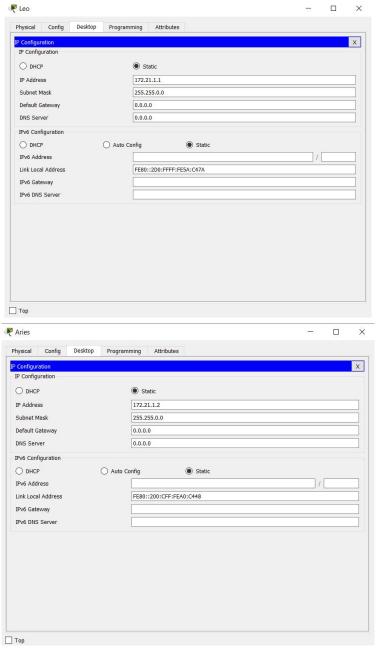
Tugas 2A: Tulis langkah pemberian nama switch

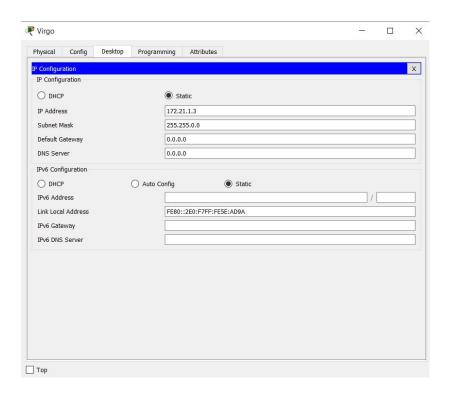
- Switch

Switch>enable Switch#conf term Switch(config)#hostname SW1 SW1(config)#

(begitu juga dengan SWITCH 2, dan 3)

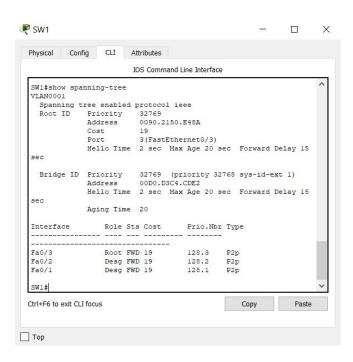
c) Konfigurasi masing-masing PC dengan alamat IP

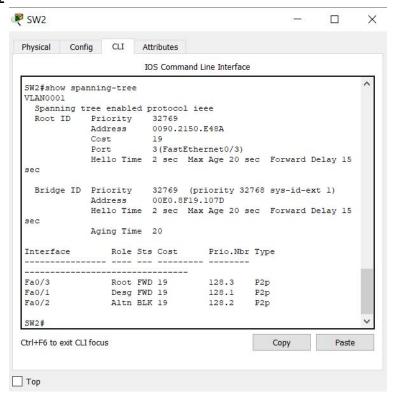




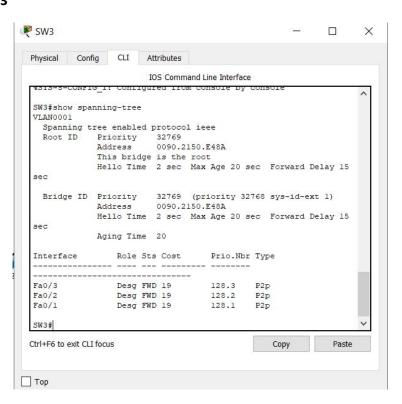
d) Spanning Tree pada SwitchTugas 4A: Capture masing-masing tampilan switch

SW1





SW3



Tugas 4B: Isikan Tabel

SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	00D0.D3C4.CDE2
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW2

	··-		
No	Variabel	Nilai	
1	Root ID	32769	
2	Priority	32769	
3	MAC Address	00E0.8F19.107D	
4	Bridge ID	32769	
5	Cost(0/1;0/2;0/3)	19	
6	Hello Time	2 sec	
7	Max Age	20 sec	
8	Forward Delay	15 sec	

SW3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0090.2150.E48A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

Tugas 4C:

- Root bridge : SW2

- Designated bridge: SW3

- Root port : SW1(fa 0/2) dan SW2(fa 0/3)

- Designated port : SW1(fa 0/1), SW2(fa 0/1; fa 0/2; fa 0/3) dan SW3(fa 0/1; fa 0/2)

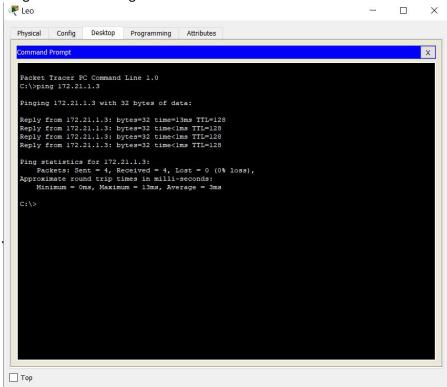
Tugas 4D: Menentukan port yang berada pada keadaan forwarding dan blocking

- Forwarding

SW1(fa 0/1; fa 0/2)

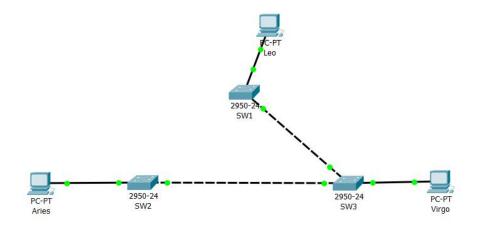
SW2(fa 0/1; fa 0/2; fa 0/3) SW3(fa 0/1; fa 0/2; fa 0/3)

- Blocking SW1(fa 0/3) e) Ping PC Leo ke PC Virgo

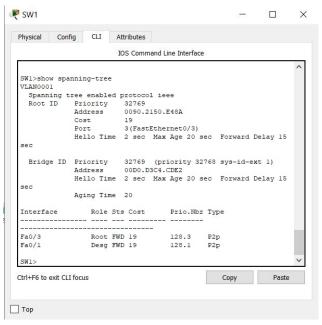


2. Kegiatan 2. Topologi 2

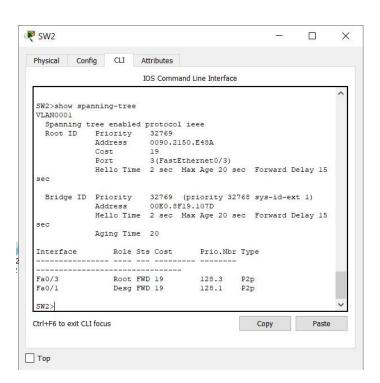
a) Membuat topologi jaringan



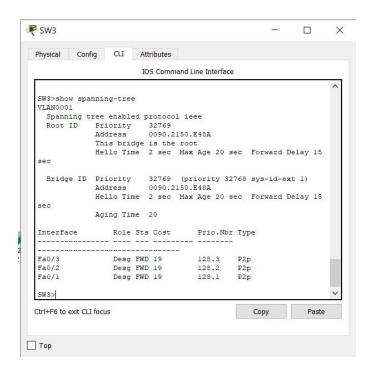
b) Lakukan langkah 4 dan 5 **SW1**



SW₂



SW3



SW1

	•		
No	Variabel	Nilai	
1	Root ID	32769	
2	Priority	32769	
3	MAC Address	00D0.D3C4.CDE2	
4	Bridge ID	32769	
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
2	Priority	32769
3	MAC Address	00E0.8F19.107D
4	Bridge ID	32769
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
2	Priority	32769
3	MAC Address	0090.2150.E48A
4	Bridge ID	32769
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 bridge: SW1 dan SW2

- Root port : SW1(fa 0/3) dan SW2(fa 0/3)

- Designated port : SW1(fa 0/1), SW2(fa 0/2), dan SW3(fa 0/1; fa 0/2; fa 0/3)

- Forwarding

SW1(fa 0/1; fa 0/3) SW2(fa 0/2; fa 0/3) SW3(fa 0/1; fa 0/2; fa 0/3)

- Blocking

Tidak ada yang terblok

Tugas 5A:

Klik pada PC Leo, pilih tab desktop, setelah itu pilih command prompt, lalu ketikan 'ping 172.21.1.3' di command prompt

- Ping dari PC Leo ke PC Virgo

```
Physical Config Desktop Programming Attributes

Command Prompt

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=13ms TTL=128

Reply from 172.21.1.3; bytes=32 time<1ms TTL=128

Reply from 172.21.1.3; bytes=32 time<1ms TTL=128

Reply from 172.21.1.3; bytes=32 time<1ms 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 = 13ms, Average = 3ms

C:\>172.21.1.3

Invalid Command.

C:\>ping 172.21.1.3 bytes=32 time<1ms TTL=128

Reply from 172.21.1.3; bytes=32 time<1ms TTL=128

Reply from 172.21.1.3;
```