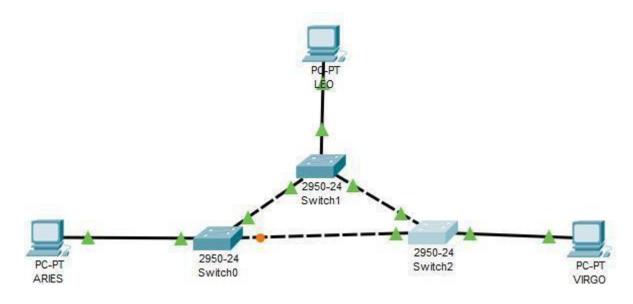
Nama : Rama Dhanu Darmawan S.

NIM : L200180110

Kelas : C

KEGIATAN 1

1.A Berikut adalah strukturtopologi



2.A Dari struktur jaringan diatas terdapat 3 Switch dan 3 *Workstation*, dengan nama *Switch* yaitu SW1, SW2, dan SW3. Sedangkan *Workstation* ialah Leo, Aries, danVirgo.

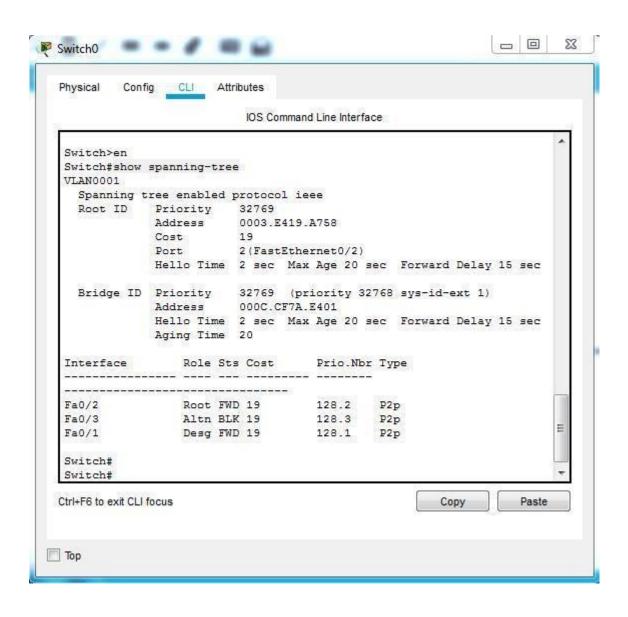
Setelah itu konfigurasi setiap *Workstation* dengan IPAddress:

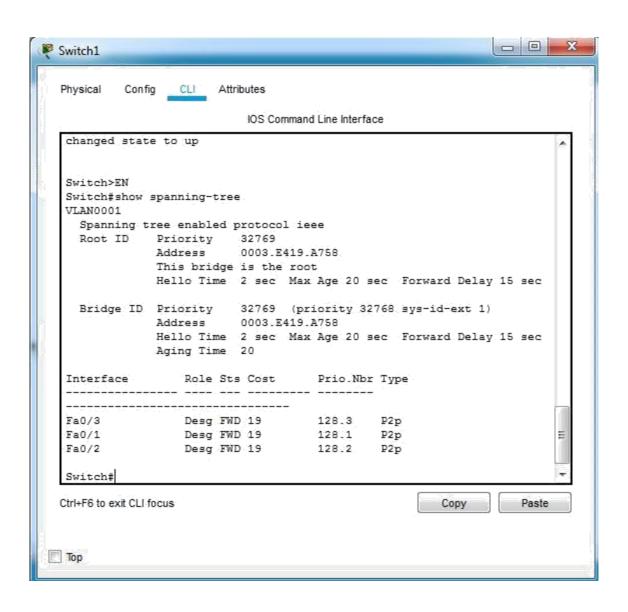
Leo = 172.21.1.1/24

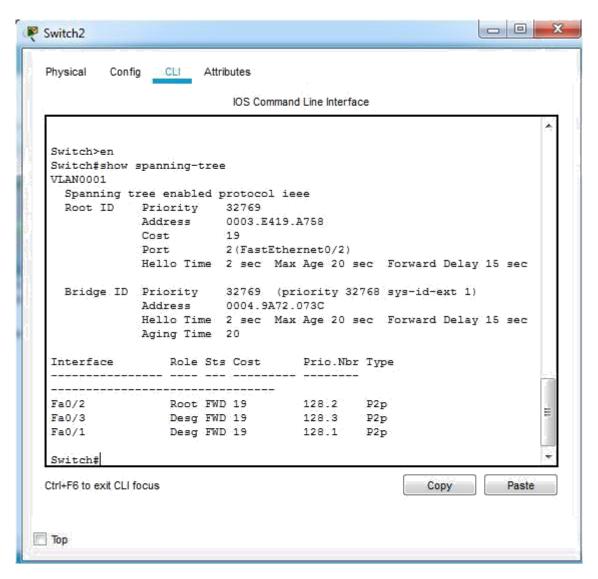
Aries =172.21.1.2/24

Virgo =172.21.1.3/24

4.A Tampilan masing-masing status STP(Spanning Tree Protocol) padaswitch.







4B

SW₀

No	Variable	Nilai
	Root ID	
1	Priority	32769
2	MAC Adrress	0003.E419.A768
	Bridge ID	
3	Cost(0/1;0/2;0/3)	19
4	Hello Time	2 Sec
5	Max Age	20 Sec
6	Forward Delay	15 Sec

SW1

No	Variable	Nilai
	Root ID	
1	Priority	32769
2	MAC Adrress	0003.E419.A768
	Bridge ID	
3	Cost(0/1;0/2;0/3)	19
4	Hello Time	2 Sec
5	Max Age	20 Sec
6	Forward Delay	15 Sec

SW2

No	Variable	Nilai
	Root ID	
1	Priority	32769
2	MAC Adrress	0003.E419.A758
	Bridge ID	
3	Cost(0/1;0/2;0/3)	19
4	Hello Time	2 Sec
5	Max Age	20 Sec
6	Forward Delay	15 Sec

4C

Pada kondisi default Switch dan Port yang menjadi :

- Root Bridge ialah SwitchSW3
- Designated Bridge ialah SwitchSW1
- Root Port ialah Fa0/3 pada SW1 dan Fa0/3 padaSW2
- Designated Port ialah Fa0/1 danFa0/2

4D

Pada kondisi default port yang:

- Barada pada keadaan *forwarding* pada SW1(Fa0/1, Fa0/2, dan Fa0/3), SW2(Fa0/1 dan Fa0/3), dan SW3(Fa0/1, Fa0/2, danFa0/3).
- Berada pada keadaan blocking pada SW2(Fa0/2).

e. Ping dari Pc Leo ke Virgo

```
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=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

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

Ping statistics for 172.21.1.3:

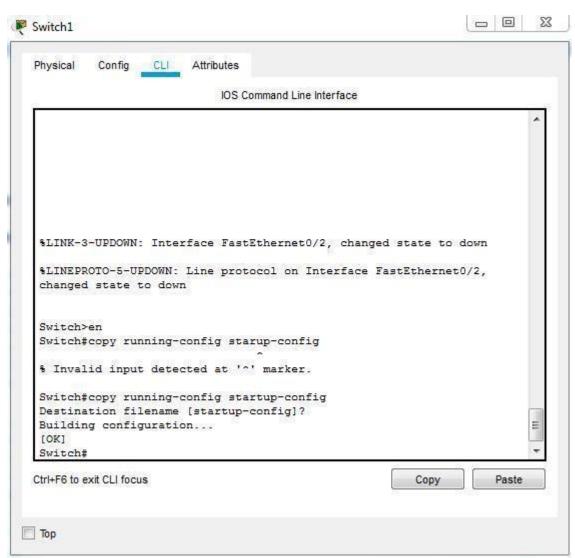
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

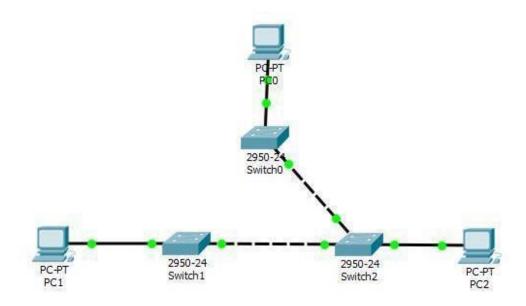
C:\>
```

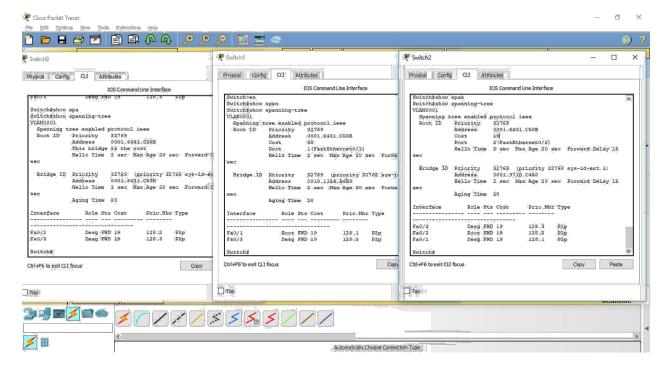
6A. Menyiapkan konfigurasi switch



KEGIATAN 2.

Membuat Design Seperti dibawah ini lalu cek spanning tree





SW₀

NO	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Addrres	0001.6431.C58B
4	Bridge ID	32769
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

SW₁

NO	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Addrres	0001.6431.C58B
4	Bridge ID	32769
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

SW 2

NO	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Addrres	0001.6431.C58B
4	Bridge ID	32769
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 : sw1 /sw2

Designated bridge : sw0

Root port : sw1 / sw 2

Designated port
Forwarding : sw0

: sw0/sw1/sw2

Blocking : None