Nama: Aulia Putri R

NIM : L200180156

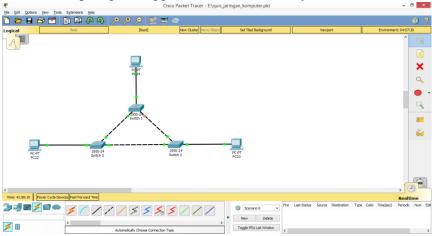
Kelas: F

Praktikum Jaringan Komputer

Modul 6: Spanning Tree Protocol

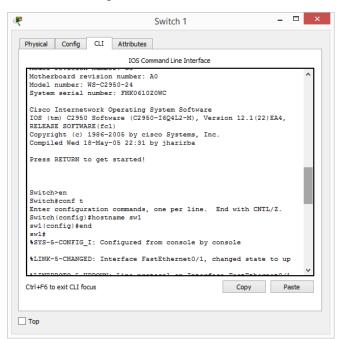
Kegiatan 1. Topologi 1

a. Membuat topologi menggunakan Switch Catalyst 2950

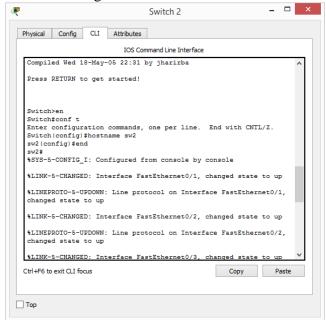


Tugas 1A

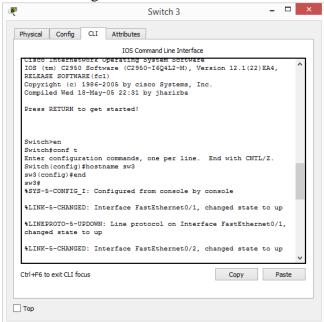
- b. Memberi nama pada masing-masing switch
 - ➤ Switch 1 sbg sw1



> Switch 2 sebagai sw2



> Switch 3 sebagai sw 3



Tugas 2A

> Switch 1

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname sw1
sw1(config)#end

> Switch 2

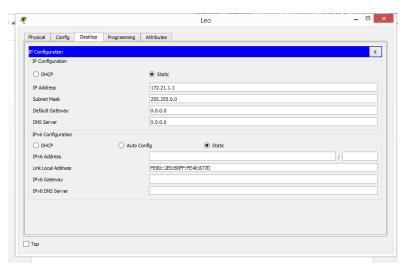
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname sw2
sw2(config)#end

> Switch 3

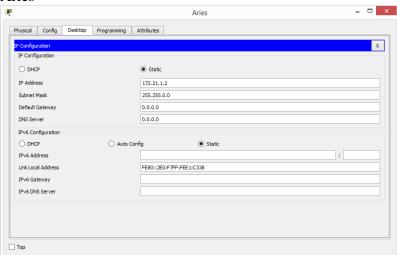
Switch>en Switch#conf t Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname sw3 sw3(config)#end

c. Konfigurasi IP pada masing-masing PC

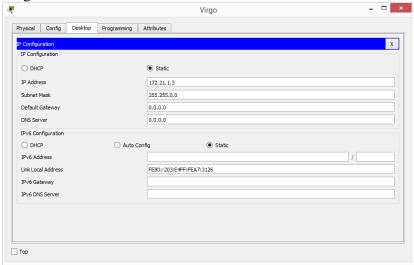
> Leo



> Aries



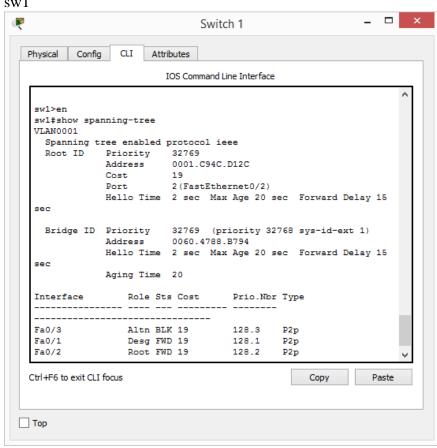
Virgo

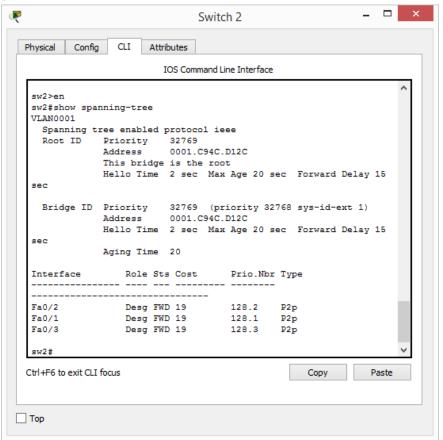


d. Lihat status STP pada masing-masing switch

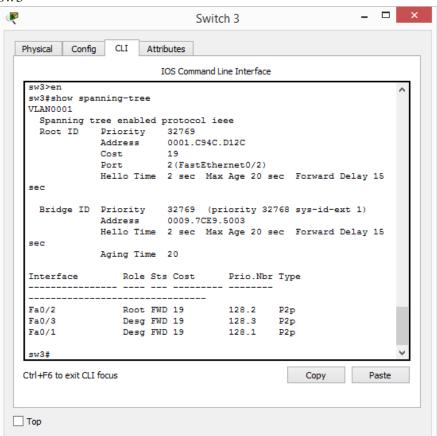
Tugas 4A

> sw1





> sw3



Tugas 4B

> sw1

No.	Variabel	Nilai
1.	Root ID	0001.C94C.D12C
2.	Priority	32769
3.	MAC Address	0060.4788.B794
4.	Bridge ID	0060.4788.B794
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

> sw2

No.	Variabel	Nilai
1.	Root ID	0001.C94C.D12C
2.	Priority	32769
3.	MAC Address	0001.C94C.D12C
4.	Bridge ID	0001.C94C.D12C
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

> sw3

No.	Variabel	Nilai
1.	Root ID	0001.C94C.D12C
2.	Priority	32769
3.	MAC Address	0009.7CE9.5003
4.	Bridge ID	0009.7CE9.5003
5.	Cost(0/1;0/2;0/3)	19/19/19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 ec

Tugas 4C

➤ Root bridge : sw2 (0001.C94C.D12C)
 ➤ Designated bridge : sw2 (Fa0/1;Fa0/2;Fa0/3)
 ➤ Root port : sw1(Fa0/2), sw3(Fa0/2)

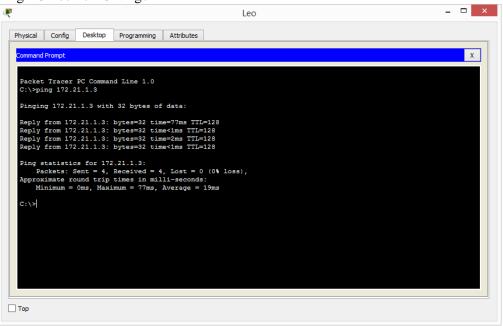
➤ Designated port : sw1(Fa0/1), sw2(Fa0/1,Fa0/2,Fa0/3), sw3(Fa0/1;Fa0/3)

Tugas 4D

Forwarding : sw1(Fa0/1;Fa0/2), sw2(Fa0/1;Fa0/2;Fa0/3), sw3(Fa0/1;Fa0/2;Fa0/3)

 \triangleright Blocking : sw1(Fa0/3)

➤ Ping PC Leo ke PC Virgo

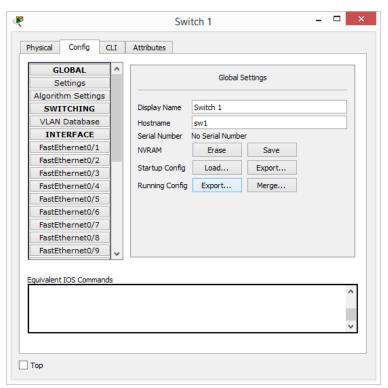


Tugas 5A. Langkah untuk melakukan perintah ping

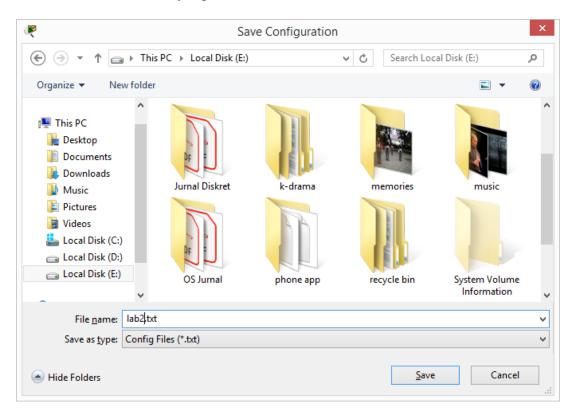
- ➤ Masuk ke PC >> Desktop >> Command Prompt
- Lalu ketik "ping 172.21.1.3(alamat IP PC yang akan di ping)"

Tugas 6A

Masuk ke setiap switch, pilih export

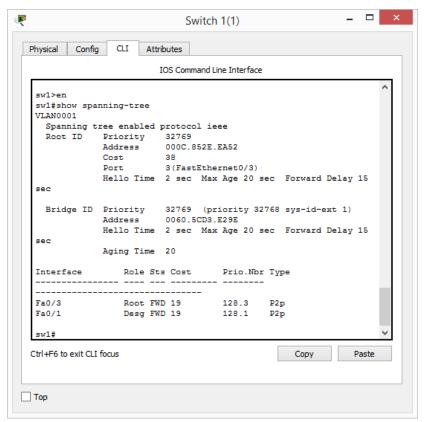


> Pilih direktori untuk menyimpan lalu tekan save

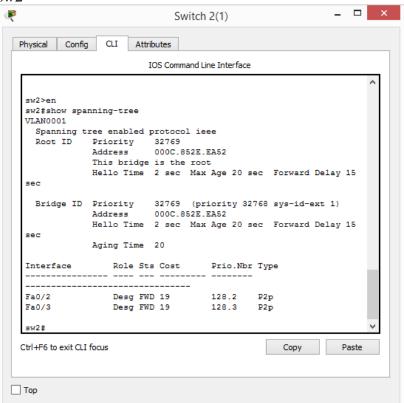


Kegiatan 2. Topologi 2

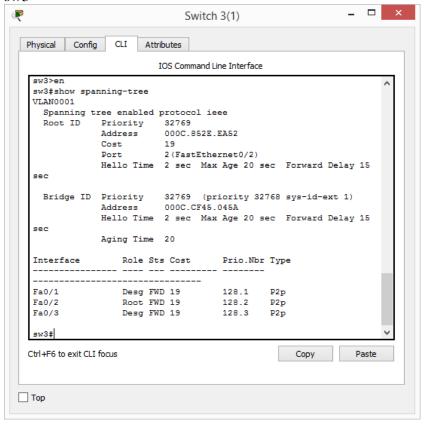
> sw1



\rightarrow sw2



> sw3



Tabel STP

> sw1

No.	Variabel	Nilai
1.	Root ID	000C.852E.EA52
2.	Priority	32769
3.	MAC Address	0060.5CD3.E29E
4.	Bridge ID	0060.5CD3.E29E
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

> sw2

No.	Variabel	Nilai
1.	Root ID	000C.852E.EA52
2.	Priority	32769
3.	MAC Address	000C.852E.EA52
4.	Bridge ID	000C.852E.EA52
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

> sw3

No.	Variabel	Nilai
1.	Root ID	000C.852E.EA52
2.	Priority	32769
3.	MAC Address	000C.CF45.045A
4.	Bridge ID	000C.CF45.045A
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

➤ Root bridge : sw2 (000C.852E.EA52)
 ➤ Designated bridge : sw2 (Fa0/1;Fa0/3)
 ➤ Root port : sw1(Fa0/3), sw3(Fa0/2)

Designated port : sw1(Fa0/1), sw2(Fa0/2;Fa0/3), sw3(Fa0/1;Fa0/3)
 Forwarding : sw1(Fa0/1;Fa0/3), sw2(Fa0/2;Fa0/3), sw3(Fa0/1;Fa0/3)

➤ Blocking : tidak ada