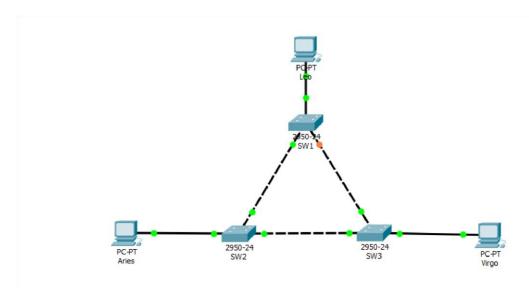
Nama: Danang Ady Saputro Widodo

NIM : L200180205

MODUL 6

Kegiatan 1. Topologi 1

Membuat topologi



Tugas 1A: Langkah pembuatan topologi

- Pada bagian Network Devices, klik bagian Switches, dan letakkan 3 buah Switch tipe 2950-24 dengan rangkai seperti gambar.
- Klik ikon End Devices, klik ikon PC dengan keterangan Generic Computer, letakkan 3 buah di dekat Switch masing-masing satu.
- Untuk menghubungkan Switch dan PC, pada bagian Connections klik ikon petir, lalu sambungkan rangkaian.

Tugas 2A: Memberi nama Switch melalui mode user

Switch>enable

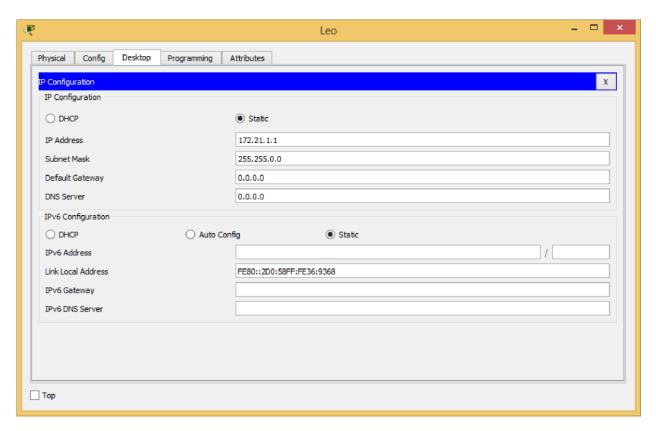
Switch#conf term

Switch(config)#hostname SW1

SW1(config)#end

Konfigurasi masing-masing PC

• Leo



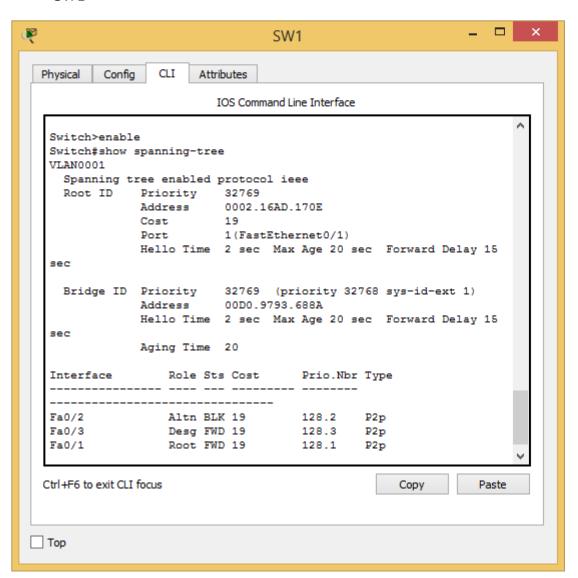
Aries

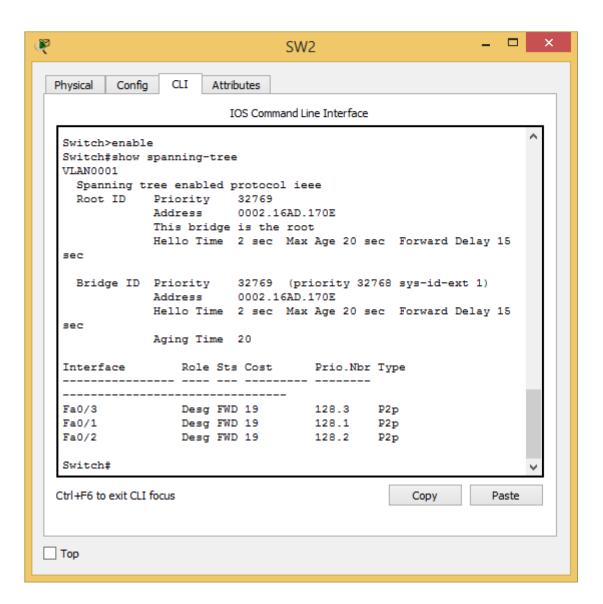
2					Aries –	□ ×
Physical	Config	Desktop	Programming	Attributes		
IP Configu	ration					Х
IP Config	guration					
O DHC	Р			Static		
IP Addre	ess			172.21.1.2		
Subnet I	Mask			255.255.0.	0	
Default	Gateway			0.0.0.0		
DNS Ser	ver			0.0.0.0		
IPv6 Cor	nfiguration					
○ DHC	Р		O Auto C	Config	Static	
IPv6 Ad	dress				1	
Link Loca	al Address			FE80::230:	F2FF:FEE9:861E	
IPv6 Ga	teway					
IPv6 DN	S Server					
Тор						

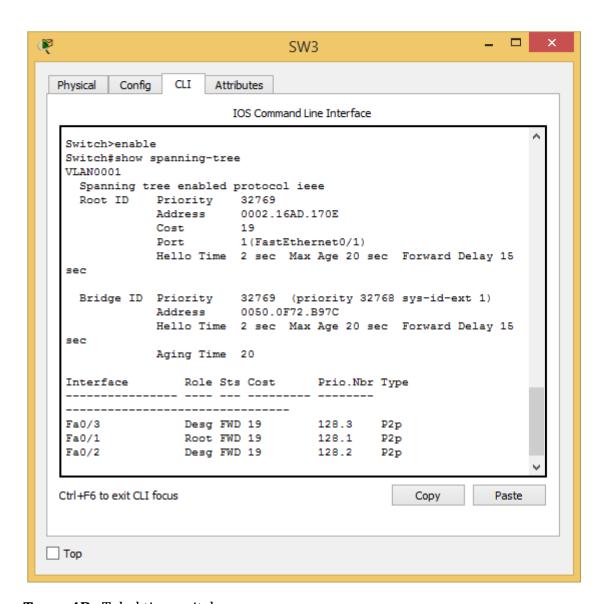
• Virgo

(P			Virgo	_ 🗆 ×
Physical Config	Desktop	Programming	Attributes	
IP Configuration				Х
IP Configuration				
O DHCP			Static	
IP Address			172.21.1.3	
Subnet Mask			255.255.0.0	
Default Gateway			0.0.0.0	
DNS Server			0.0.0.0	
IPv6 Configuration				
○ DHCP		O Auto C	Config Static	
IPv6 Address				
Link Local Address			FE80::20A:F3FF:FE70:BC5E	
IPv6 Gateway				
IPv6 DNS Server				
Пор				

Tugas 4A: Pada mode *user* atau *privileged*, lihat status STP pada masing-masing switch.







Tugas 4B: Tabel tiap switch

No	Variabel	Nilai
1	Root ID	32769 : 0002.16AD.170E
2	Priority	32769
3	MAC Address	00D0.9793.688A
4	Bridge ID	32769 : 00D0.9793.688A
5	Cost (0/1; 0/2; 0/3)	19

6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

No	Variabel	Nilai
1	Root ID	32769 : 0002.16AD.170E
2	Priority	32769
3	MAC Address	0002.16AD.170E
4	Bridge ID	32769 : 0002.16AD.170E
5	Cost (0/1; 0/2; 0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

No	Variabel	Nilai
1	Root ID	32769 : 0002.16AD.170E
2	Priority	32769
3	MAC Address	0050.0F72.B97C
4	Bridge ID	32769 : 0050.0F72.B97C
5	Cost (0/1; 0/2; 0/3)	19
6	Hello Time	2 sec

7	MaxAge	20 sec
8	Forward Delay	15 sec

Tugas 4C:

> Root bridge : SW2

Designated bridge : SW3

> Root port : SW1 (Fa0/1), SW3 (Fa0/1)

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

Tugas 4D:

> Keadaan forwarding:

- SW1 (Fa0/1, Fa0/3),

- SW2 (Fa0/1, Fa0/2, Fa0/3),

- SW3 (Fa0/1, Fa

➤ Keadaan Blocking: SW1 (Fa0/2)

PC Leo melakukan ping ke PC Virgo

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\pring 172.21.1.3

Pinging 172.21.1.3: bytes=32 time=64ms TTL=128
Reply from 172.21.1.3: bytes=32 time</ms TTL=128
Ping statistics for 172.21.1.3:

Packets: Sent = 4, Recsived = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 64ms, Average = 16ms

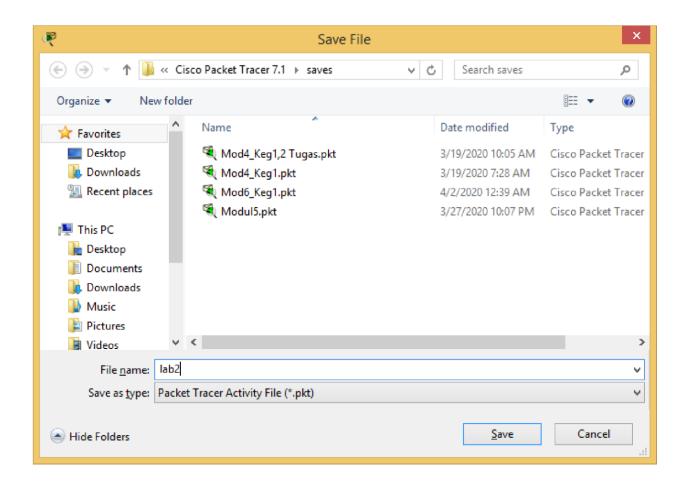
C:\N
```

Tugas 5A: Langkah perinta ping

- 1. Klik PC Leo
- 2. Pilih tab desktop
- 3. Pilih command promp
- 4. Ketikkan ping 172.21.1.3

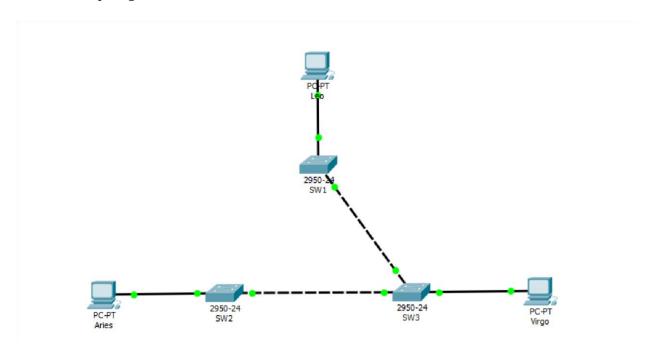
Tugas 6A: Langkah menyimpan konfigurasi jaringan

- 1. Klik File
- 2. Pilih Save
- 3. Beri nama lab2.ekstensi akan menyesuaikan dengan aplikasi yg digunakan

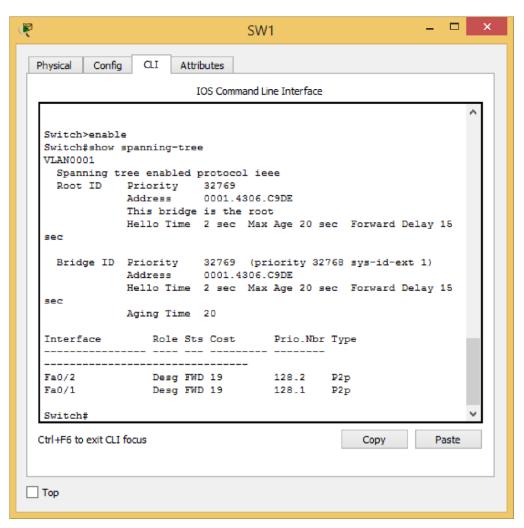


Kegiatan 2. Topologi 2

Membuat topologi

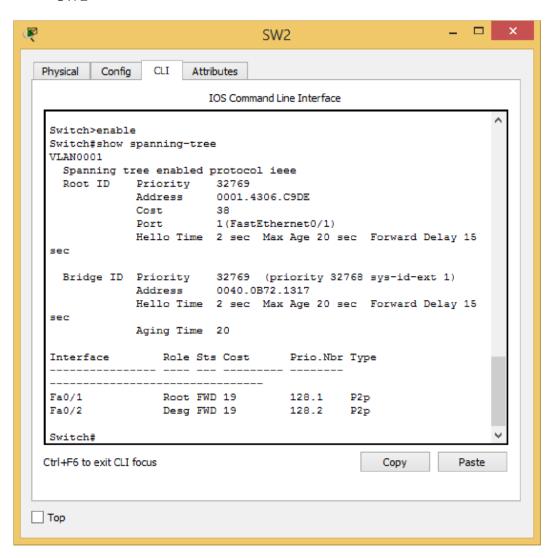


Tugas 9A: Status STP masing-masing switch



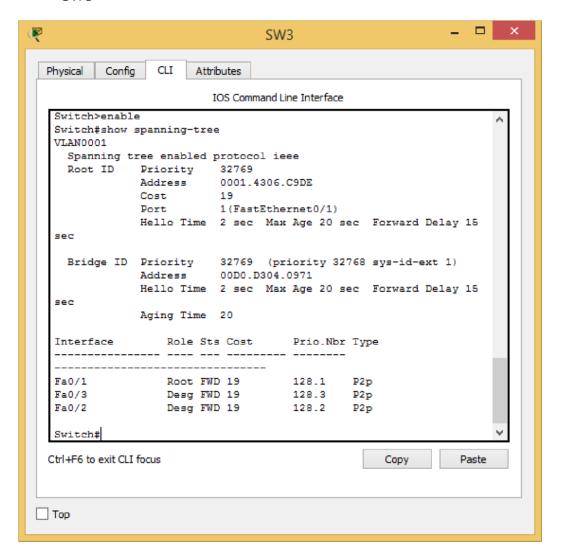
No	Variabel	Nilai
1	Root ID	32769 : 0001.4306.C9DE
2	Priority	32769
3	MAC Address	0001.4306.C9DE
4	Bridge ID	32769 : 0001.4306.C9DE
5	Cost	19
6	Hello Time	2 sec
7	MaxAge	20 sec

8	Forward Delay	15 sec



No	Variabel	Nilai
1	Root ID	32769 : 0001.4306.C9DE
2	Priority	32769
3	MAC Address	0040.0B72.1317
4	Bridge ID	32769 : 0040.0B72.1317
5	Cost	19

6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec



No	Variabel	Nilai
1	Root ID	32769 : 0001.4306.C9DE
2	Priority	32769
3	MAC Address	00D0.D304.0971

4	Bridge ID	32769 : 00D0.D304.0971
5	Cost	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Menentukan:

• Root bridge: SW1

• Designated bridge: SW3

• Root Port: SW2 (Fa0/1), SW3(Fa0/1)

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

Menentukan:

• Keadaan forwarding:

- SW1 (Fa0/1, Fa0/2)

- SW2 (Fa0/1, Fa0/2)

- SW3 (Fa0/1, Fa0/2, Fa0/3)

• Keadaan blocking: tidak ada

Ping PC Leo ke PC Virgo

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\Pping 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=lims TIL=128
Reply from 172.21.1.3: bytes=32 time</i>
Reply fro
```