Nama : Ilham Anwar Yazied

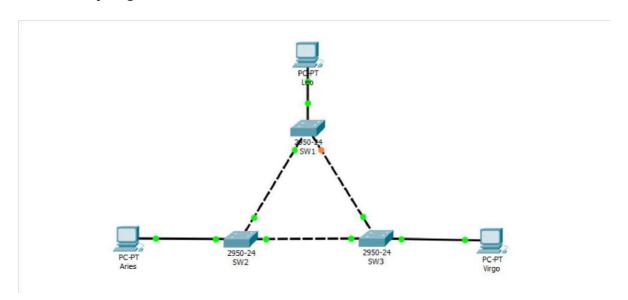
NIM : L200180049

Kelas : B (Praktikum Jaringan Komputer)

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

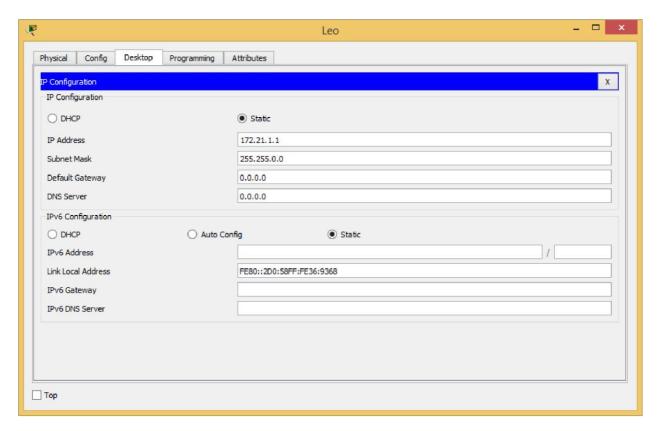
Switch#conf term

Switch(config)#hostname SW1

SW1(config)#end

Konfigurasi masing-masing PC

• Leo



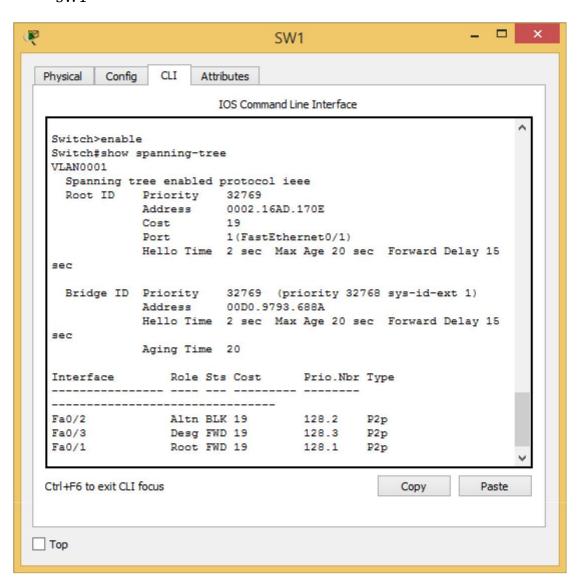
• Aries

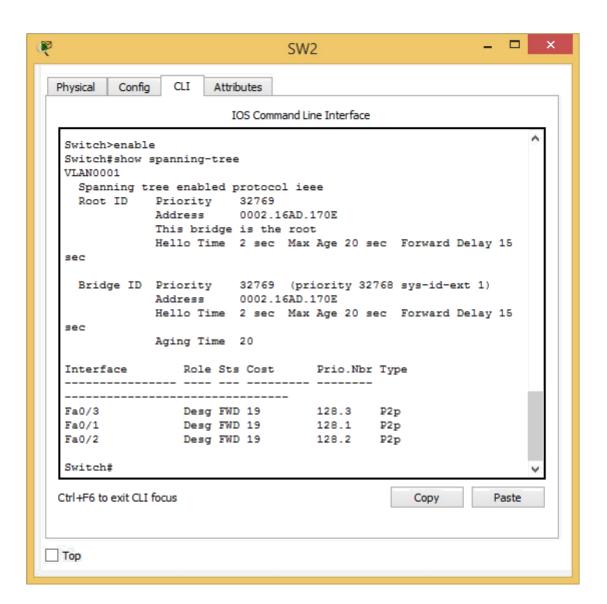
		Aries	
Physical Config Desi	top Programming	Attributes	
IP Configuration			X
IP Configuration			
OHCP		Static	
IP Address		172.21.1.2	
Subnet Mask		255.255.0.0	
Default Gateway		0.0.0.0	
DNS Server		0.0.0.0	
IPv6 Configuration			
O DHCP	O Auto C	nfig Static	
IPv6 Address		[
Link Local Address		FE80::230:F2FF:FEE9:861E	
IPv6 Gateway			
IPv6 DNS Server			
Тор			

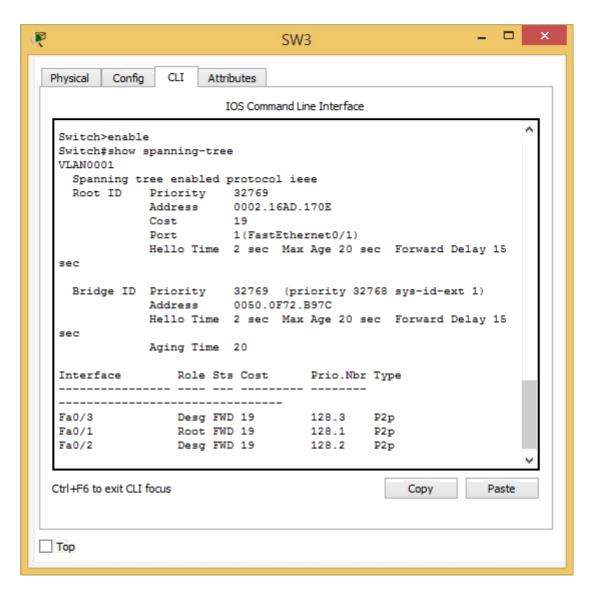
• Virgo

· Ka	Virgo X
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 Auto Con	fig Static
IPv6 Address	/ /
Link Local Address	FE80::20A:F3FF:FE70:BCSE
IPv6 Gateway	
IPv6 DNS Server	
Тор	

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:\>ping 172.21.1.3

Pinging 172.21.1.3: bytes=32 time=64ms 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 = 64ms, Average = 16ms

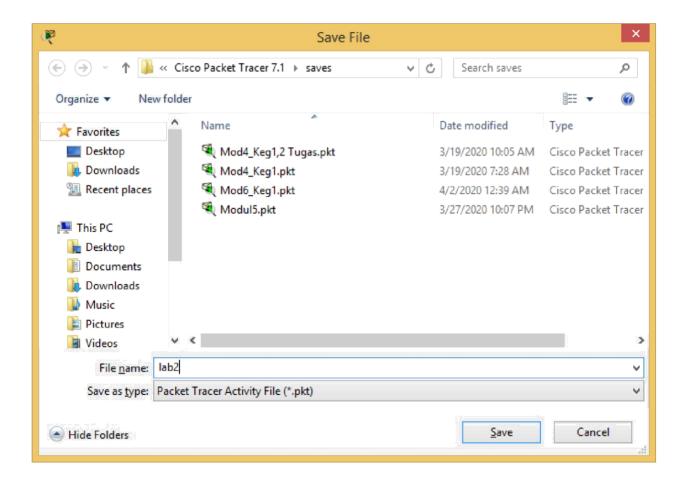
C:\>
```

Tugas 5A: Langkah perinta ping

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

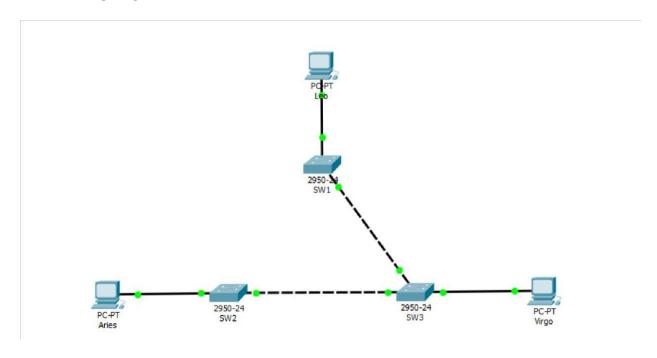
Tugas 6A: Langkah menyimpan konfigurasi jaringan

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

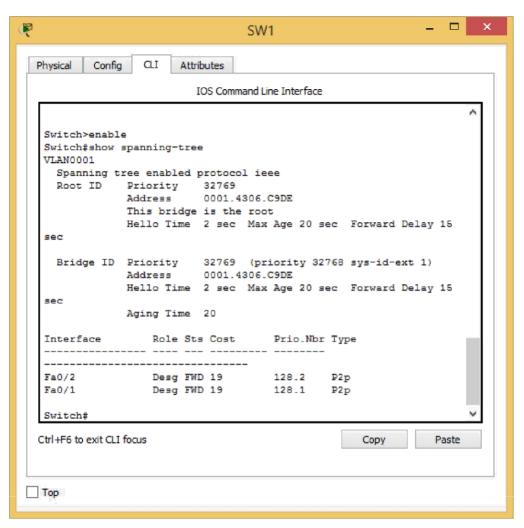


Kegiatan 2. Topologi 2

Membuat topologi

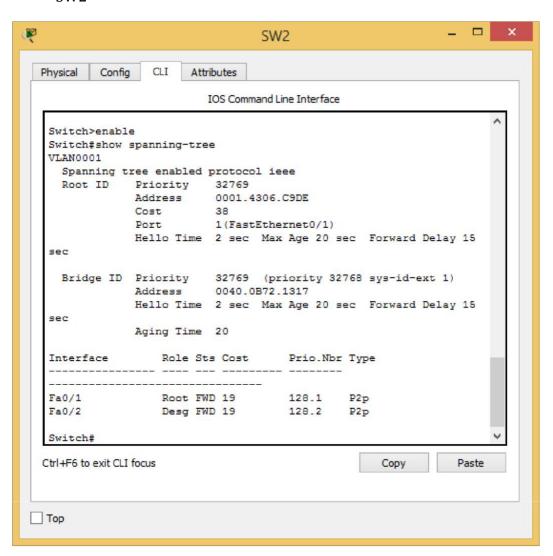


Tugas 9A : Status STP masing-masing switch



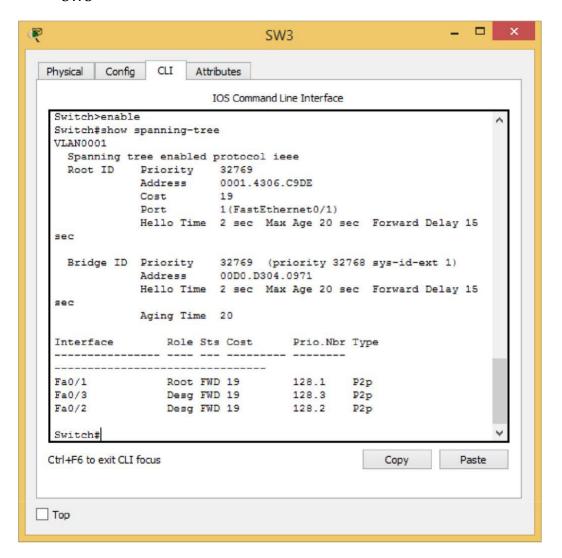
No	Variabel	Nilai
1	Root ID	32769 : 0001.4306.C9DE
2	Priority	32769
3	MAC Address	0001.4306.C9DE
4	Bridge ID	32769 : 0001.4306.C9DE
5	Cost	19
6	Hello Time	2 sec
7	MaxAge	20 sec

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

X

Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3 with 32 bytes of data:
Reply from 172.21.1.3: bytes=32 time=lims TTL=128
Reply from 172.21.1.3: bytes=32 time

Rep
```