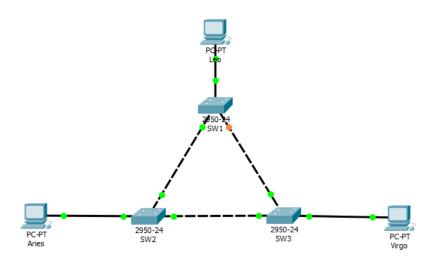
Nama: Anggit Astriani

NIM : L200180111

## 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

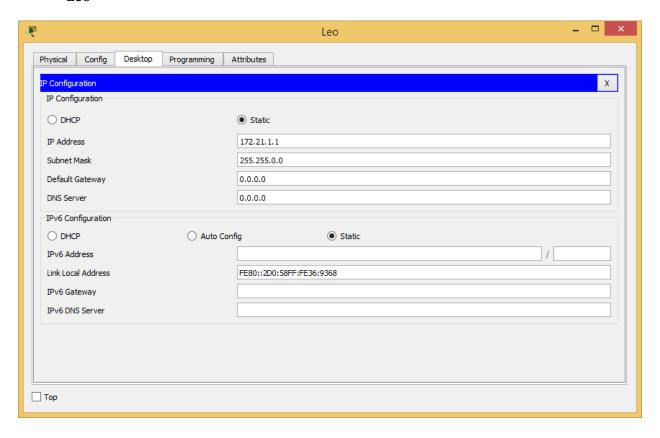
Switch#conf term

Switch(config)#hostname SW1

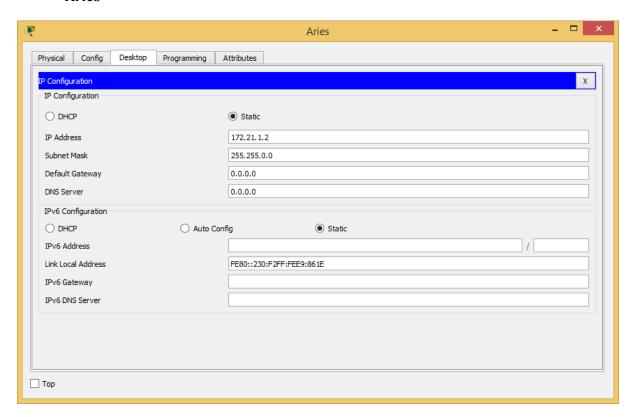
SW1(config)#end

# Konfigurasi masing-masing PC

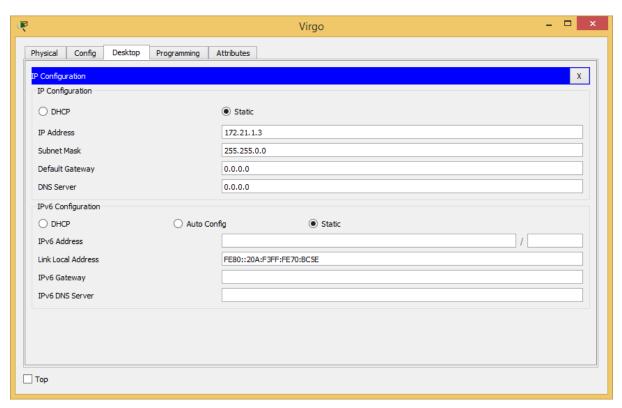
• Leo



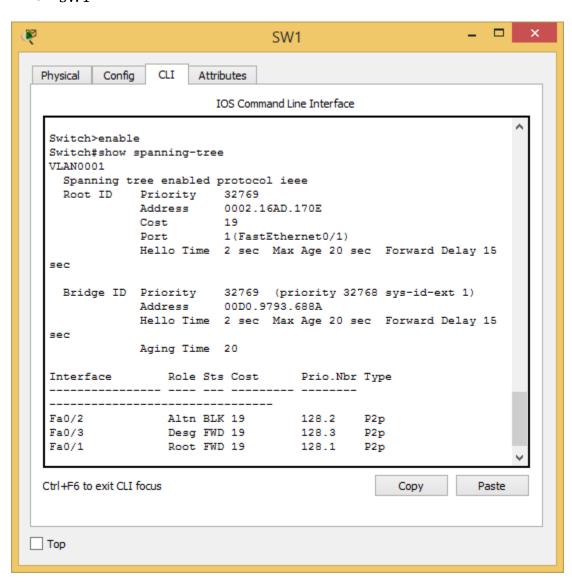
#### Aries

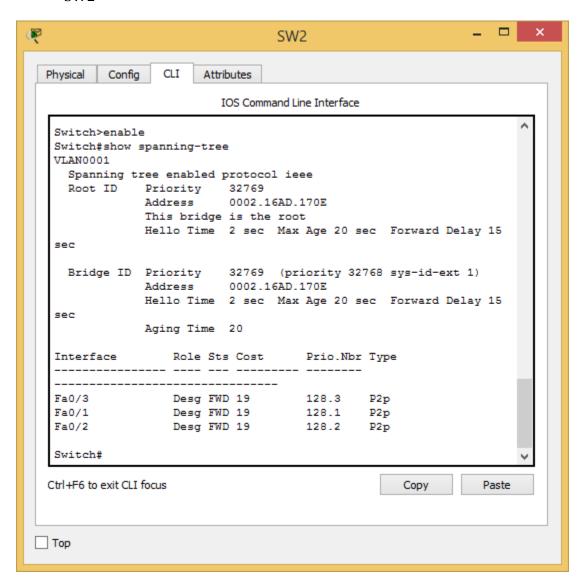


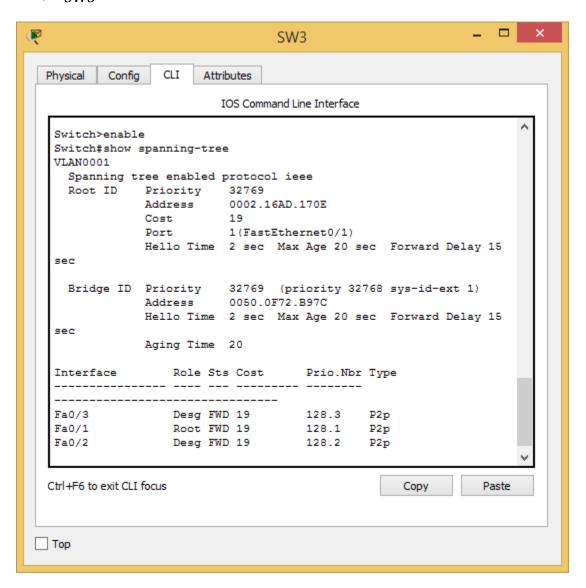
# • Virgo



**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 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=64ms TTI=128
Reply from 172.21.1.3: bytes=32 time<1ms TTI=128
Reply from 172.21.1.3: bytes=32 time<1ms TTI=128
Reply from 172.21.1.3: bytes=32 time<1ms TTI=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

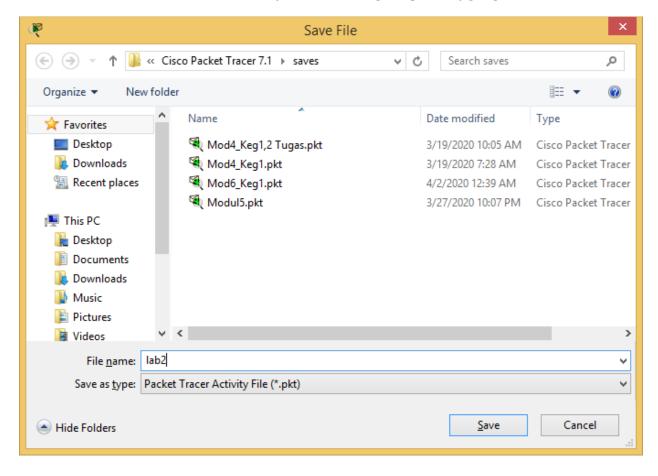
C:\pi
```

## Tugas 5A: Langkah perinta ping

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

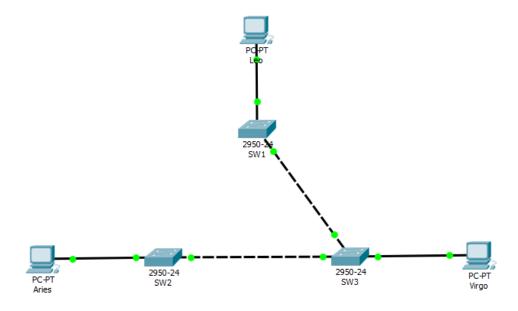
## Tugas 6A: Langkah menyimpan konfigurasi jaringan

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

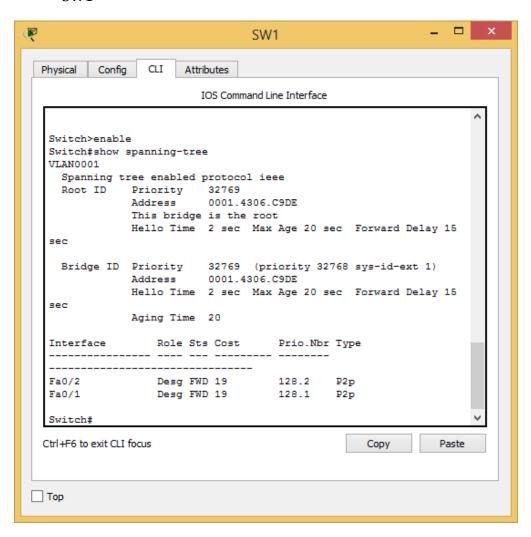


# Kegiatan 2. Topologi 2

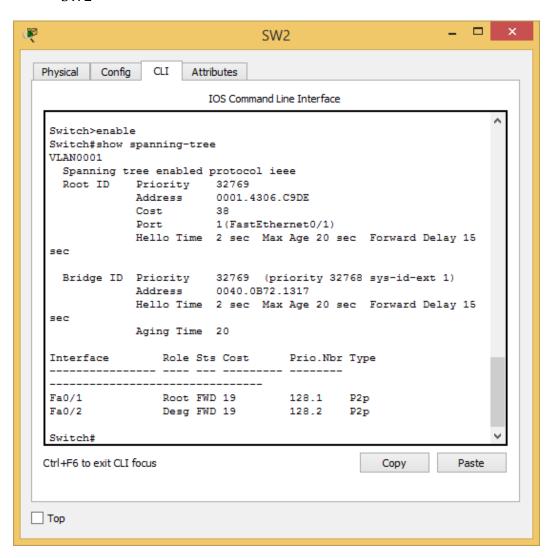
# Membuat topologi



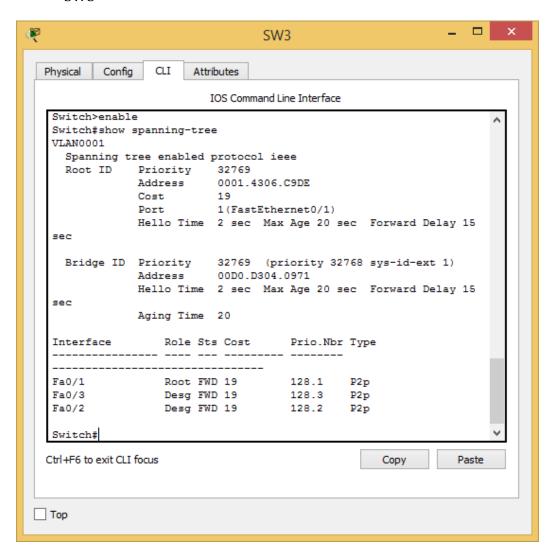
Tugas 9A: Status STP masing-masing switch



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:\Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=lins TTL=128
Reply from 172.21.1.3: bytes=32 timeIns TTL=128
Reply from 172.21.1.3: bytes=32 time<ins TTL=128
Reply from 172.21.1.3: bytes=32 time<ins TTL=128
Reply from 172.21.1.3: bytes=32 time<ins TTL=128
Ping statistics for 172.21.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli=sconds:
Minimum = 0ms, Maximum = 1ims, Average = 2ms

C:\Pi
```