Nama: Arindita Prihastama

NIM : L200180058

Kelas: B

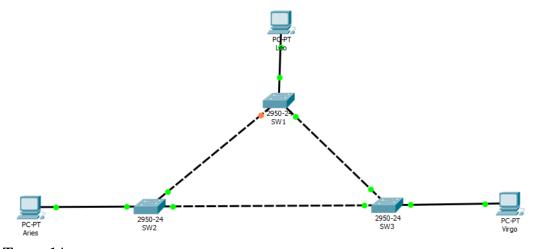
### MODUL 6

### SPANNING TREE PROTOCOL

# Kegiatan Praktikum

# 1. Topologi 1

a. Membuat topologi pada packet tracer menggunakan switch Catalyst 2950



### **Tugas 1A**

- Pada bagian Network Devices, klik bagian Switches, dan letakkan 3 buah Switch tipe 2950-24 bentuk seperti gambar.
- Klik ikon End Devices, klik ikon PC dengan keterangan Generic Computer, letakkan 3 di dekat switch masing-masing satu.
- Untuk menghubungkan pilih pada bagian Connections, klik ikon petir, lalu sambungkan dari switch satu ke yang lain, lalu hubungkan PC dengan switch yang berada di dekatnya.
- b. Memberi nama pada masing-masing switch dengan SW1, SW2, dan SW3

### Tugas 2A

• SW1

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SWl
SWl(config)#exit
SWl#

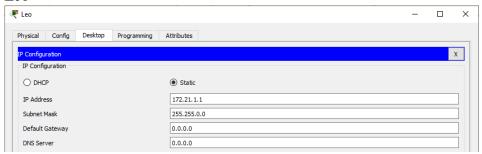
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#exit
SW2#

#### • SW3

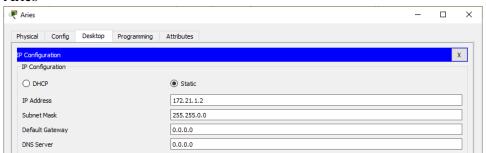
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
SW3#

# c. Konfigurasi masing-masing IP dengan alamat IP yang tertera di modul

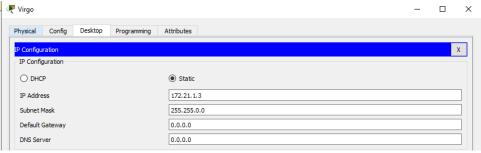
# • Leo



#### • Aries

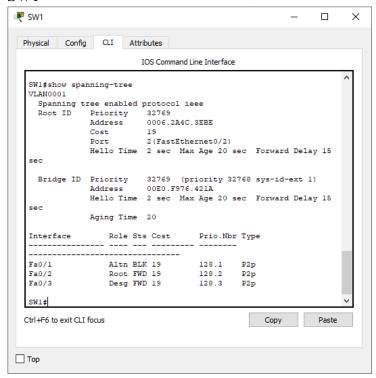


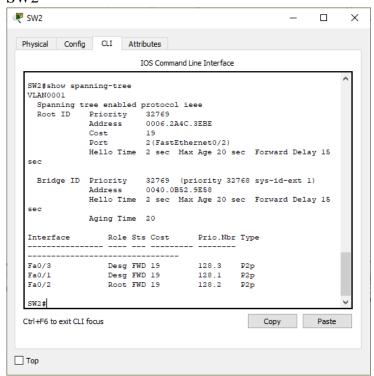
## Virgo

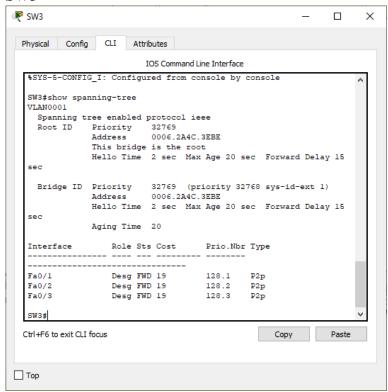


d. Pada mode user atau mode privileged, melihat status STP pada masing-masing switch **Tugas 4A** 

### • SW1







# Tugas 4B

# • SW1

No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32769
3.	MAC Address	00E0.F976.421A
4.	Bridge ID	32769
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
2.	Priority	32769
3.	MAC Address	0040.0B52.9E58
4.	Bridge ID	32769
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
2.	Priority	32769
3.	MAC Address	0006.2A4C.3EBE
4.	Bridge ID	32769
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: SW3

• Designated bridge: SW2

• Root port : SW1 (Fa0/2), SW2 (Fa0/2)

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

### **Tugas 4D**

• Forwarding:

o SW1: Fa0/2, Fa0/3

SW2: Fa0/1, Fa0/2, Fa0/3SW3: Fa0/1, Fa0/2, Fa0/3

• Blocking: SW1 (Fa0/1)

e. Melakukan ping dari PC Leo 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 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=16ms 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:

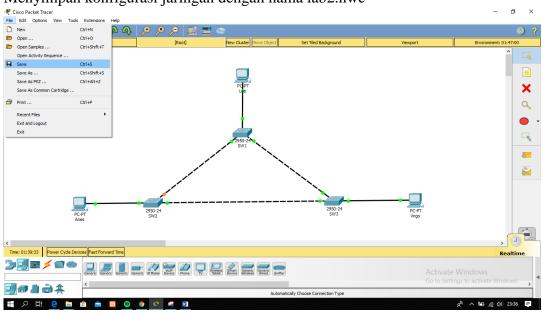
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 16ms, Average = 4ms

C:\>
```

# Tugas 5A

- Klik pada PC Leo
- Pilih tab desktop
- Pilih command prompt
- Ketikkan ping 172.21.1.3
- f. Menyimpan konfigurasi jaringan dengan nama lab2.nwc

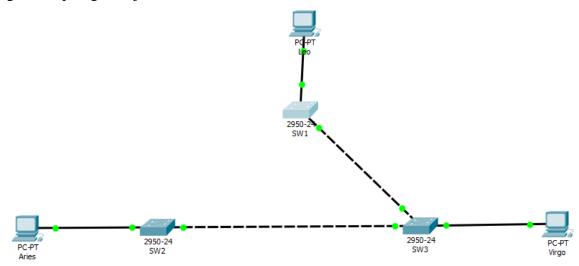


# Tugas 6A

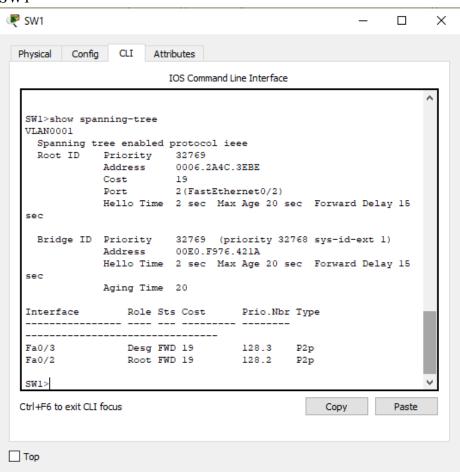
- Pilih file
- Pilih save
- Pilih direktori untuk tempat menyimpan
- Isikan nama dengan lab2 (ekstensi akan sesuai dengan aplikasi yang digunakan)

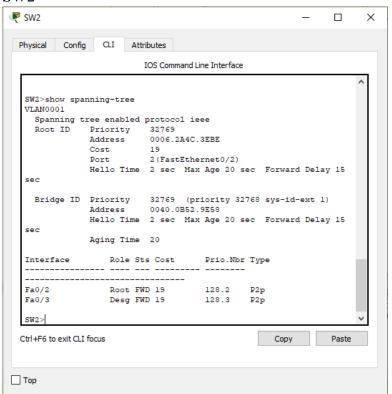
# 2. Topologi 2

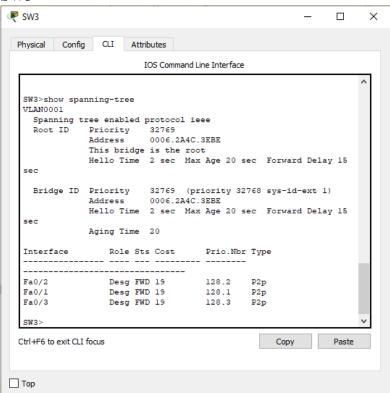
Mengubah topologi menjadi berikut:



# Tugas 9A







No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32769
3.	MAC Address	00E0.F976.421A
4.	Bridge ID	32769
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	32769
2.	Priority	32769
3.	MAC Address	0040.0B52.9E58
4.	Bridge ID	32769
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	32769
2.	Priority	32769
3.	MAC Address	0006.2A4C.3EBE
4.	Bridge ID	32769
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: SW3

• Designated bridge: SW2

• Root port : SW1 (Fa0/2), SW2 (Fa0/2)

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

• Forwarding:

SW1: Fa0/2, Fa0/3SW2: Fa0/2, Fa0/3

o SW3 : Fa0/1, Fa0/2, Fa0/3

• Blocking: Tidak ada port yang ter-block