Nama : Muhammad Khotibul Umam Senoaji

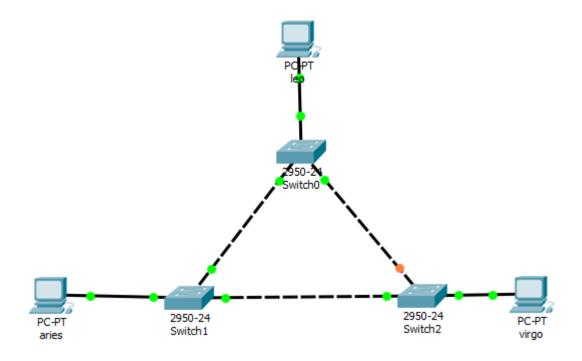
NIM : L200170050

Kelas : B

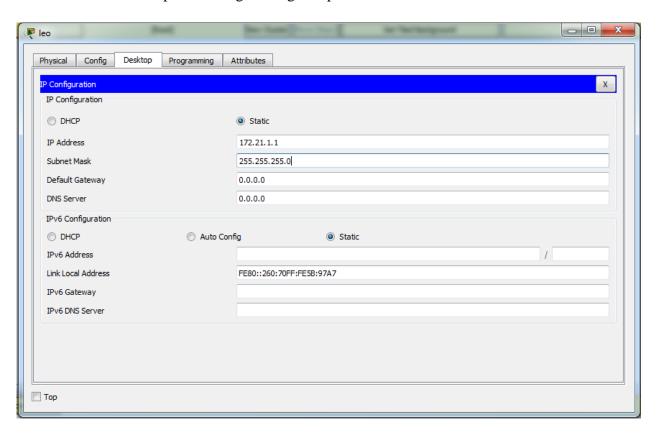
# MODUL 6 SPANNING TREE PROTOCOL

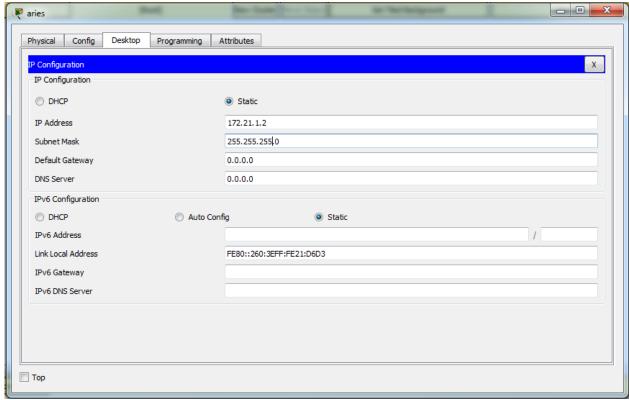
# A. Kegiatan Praktikum

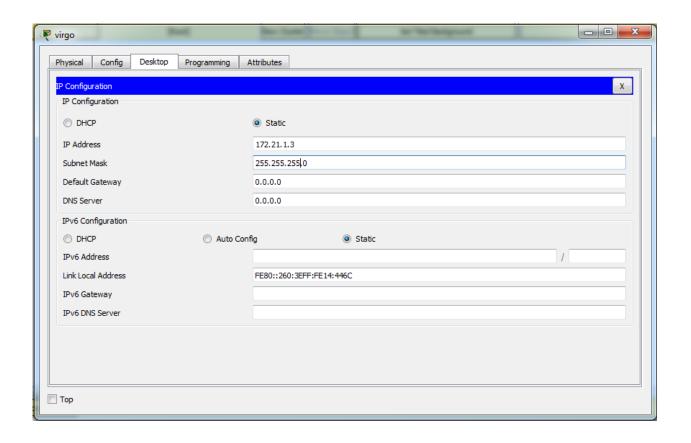
# Kegiatan 1. Topologi 1



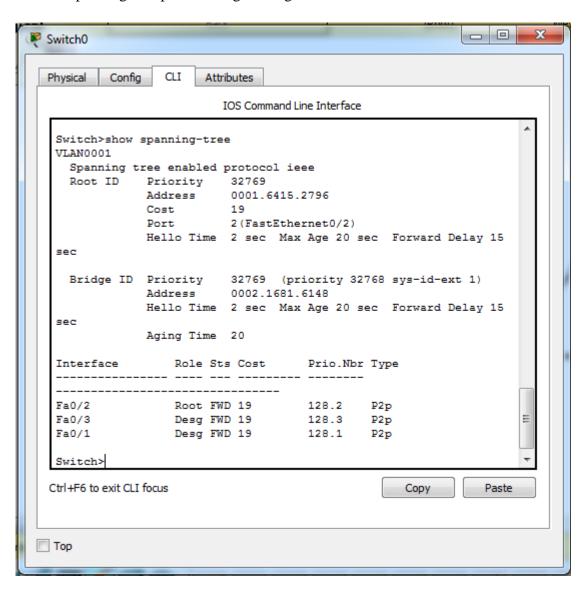
a. Memberi nama dan IP pada masing-masing computer.

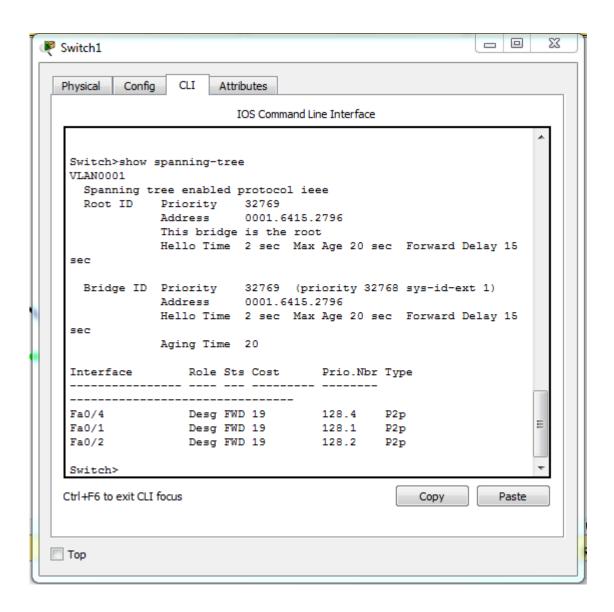


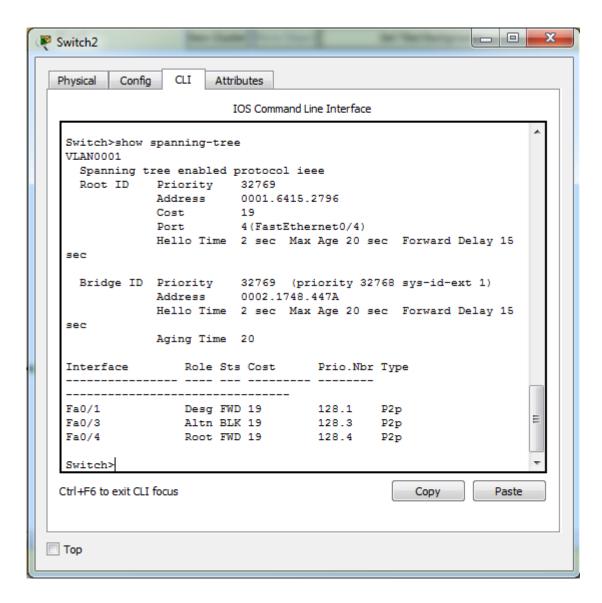




b. Melihat spanning-tree pada masing-masing server.







c. Tabel status STP pada masing-masing Switch:

# • Switch0

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6415.2796
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

# • Switch1

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6415.2796
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	-
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

#### • Switch2

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6415.2796
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

# d. Dalam kondisi default:

- Root Bridge => Fa 0/2 (switch0) dengan Fa 0/4 (switch2)
- Designated Bridge => Fa 0/3 (switch0) dengan Fa 0/3 (switch2)

=> Fa 0/4 (switch1) dengan Fa 0/4 (switch2)

- Root Port => Fa 0/2 (switch0)
  - => Fa 0/4 (switch2)
- Designated Port => Fa 0/3 (switch0)

=> Fa 0/1 (switch0)

=> Fa 0/4 (switch1)

=> Fa 0/1 (switch1)

 $\Rightarrow$  Fa 0/2 (switch1)

=> Fa 0/1 (switch2)

#### e. Dalam kondisi default:

• Port dalam kondisi Forwarding => Fa 0/2 (switch0)

=> Fa 0/3 (switch0)

=> Fa 0/1 (switch0)

```
=> Fa 0/4 (switch1)
=> Fa 0/1 (switch1)
=> Fa 0/2 (switch1)
=> Fa 0/1 (switch2)
=> Fa 0/4 (switch2)
```

- Port dalam kondisi Blocking => Fa 0/3 (switch2)
- f. Hasil dari ping pada PC Leo dengan PC Virgo.

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Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\\Ping 172.21.1.8

Pinging 172.21.1.3 with 32 bytes of data:

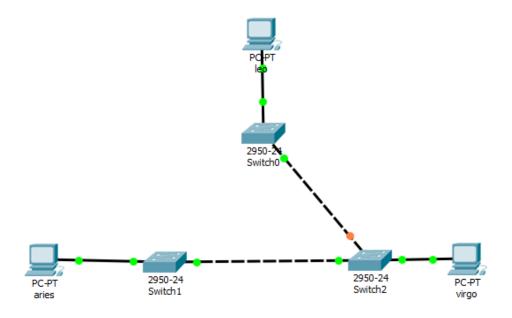
Reply from 172.21.1.3: bytes=32 time=17ms TTL=128
Reply from 172.21.1.3: bytes=32 time=ims TTL=128
Reply from 172.21.1.3: bytes=32 time=ims TTL=128
Reply from 172.21.1.3: bytes=32 time=ims TTL=128

Ping statistics for 172.21.1.3:

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

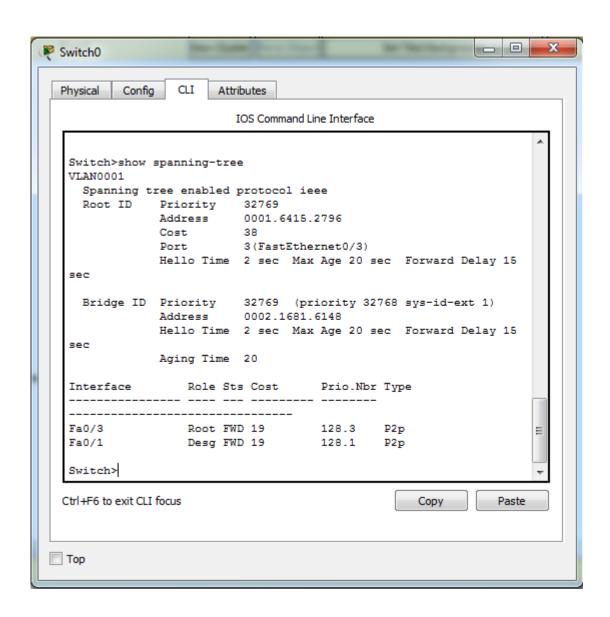
Minimum = Oms, Maximum = 17ms, Average = 4ms

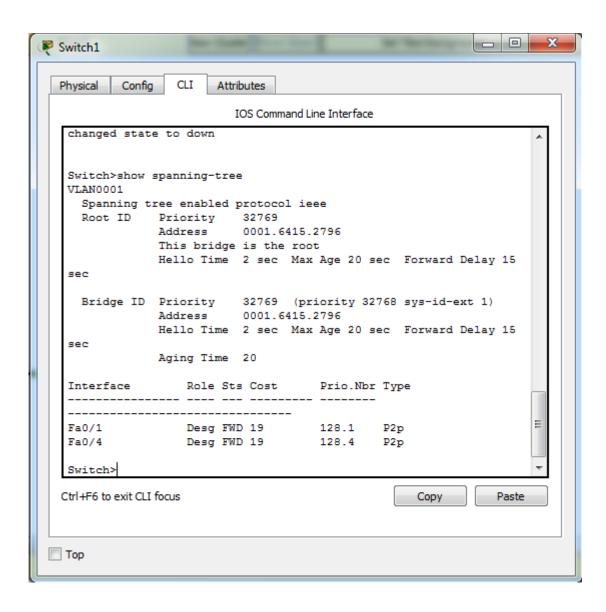
C:\\Pi
```

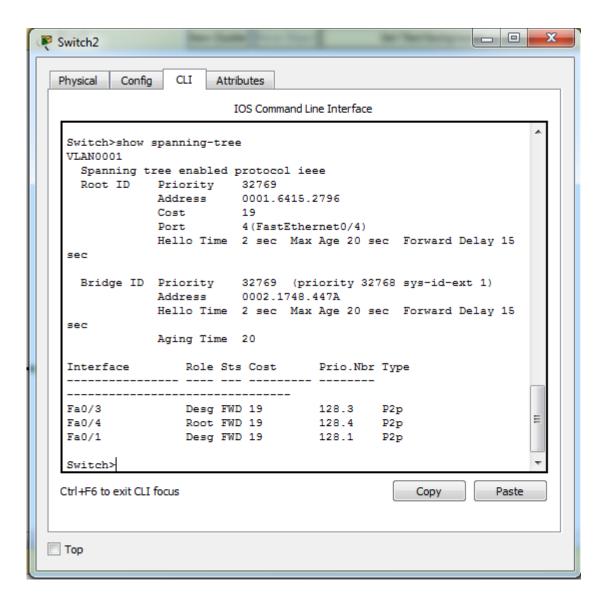


a. Karena rangkaian sebelumnya hanya diberikan sedikit perubahan, berupa penghapusan kabel dari switch0 dengan switch1.

b. Melihat spanning-tree pada masing-masing server.







# d. Tabel status STP pada masing-masing Switch:

# • Switch0

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6415.2796
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	38
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

#### • Switch1

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6415.2796
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	-
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

#### • Switch2

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6415.2796
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

# g. Dalam kondisi default:

- Root Bridge => Fa 0/3 (switch0) dengan Fa 0/4 (switch2)
- Designated Bridge => Fa 0/4 (switch1) dengan Fa 0/3 (switch2)
- Root Port => Fa 0/3 (switch0)

• Designated Port => Fa 0/1 (switch0)

=> Fa 0/4 (switch1)

=> Fa 0/1 (switch1)

=> Fa 0/1 (switch2)

=> Fa 0/3 (switch2)

# h. Dalam kondisi default:

• Port dalam kondisi Forwarding => Fa 0/3 (switch0)

 $\Rightarrow$  Fa 0/1 (switch0)

 $\Rightarrow$  Fa 0/4 (switch1)

=> Fa 0/1 (switch1)

=> Fa 0/1 (switch2)

 $\Rightarrow$  Fa 0/4 (switch2)

=> Fa 0/3 (switch2)

- Port dalam kondisi Blocking => -
- c. Hasil dari ping pada PC Leo dengan PC Virgo

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\Pping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=2ms 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 = Oms, Meximum = 2ms, Average = Oms

C:\>

Top
```