Nama: Pawitro Purbangkoro

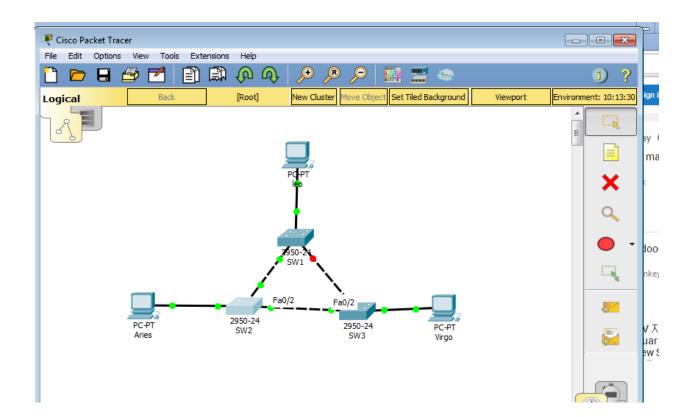
NIM : L200170045

Kelas: B

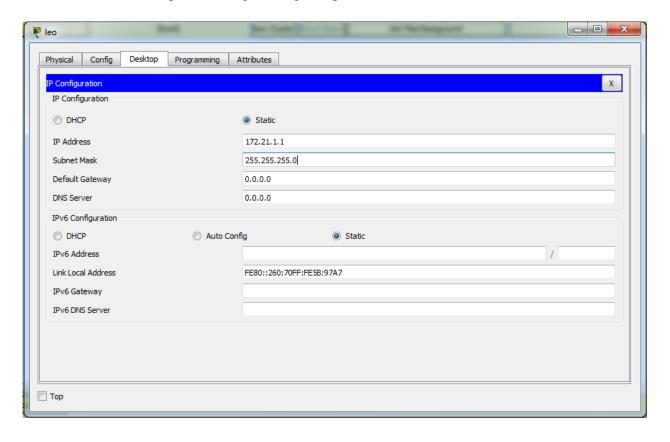
# MODUL 6 SPANNING TREE PROTOCOL

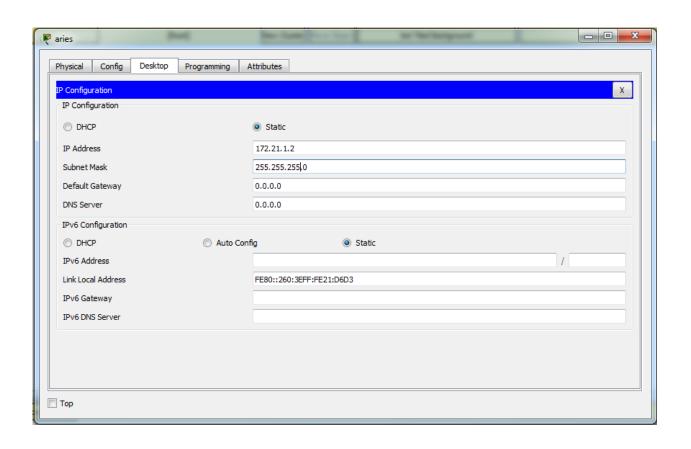
# A. Kegiatan Praktikum

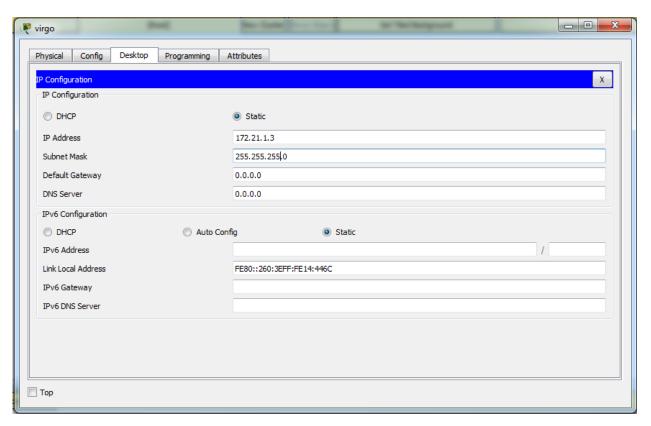
# Kegiatan 1. Topologi 1



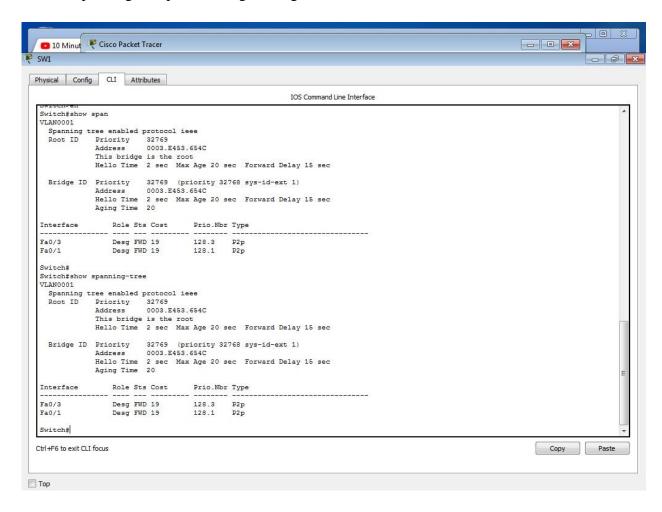
a. Memberi nama dan IP pada masing-masing computer.

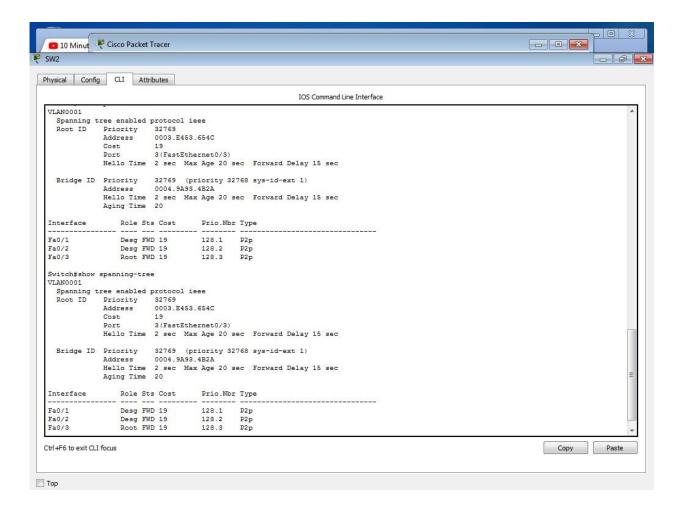


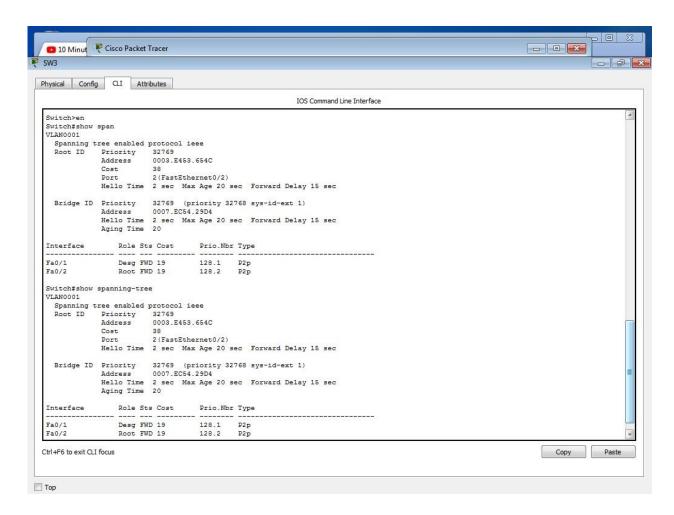




b. Melihat spanning-tree pada masing-masing server.







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

#### • Switch1

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E453.654C
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

#### • Switch2

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E453.654C
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

#### • Switch3

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E453.654C
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 (switch1) dengan Fa 0/4 (switch3)
- Designated Bridge => Fa 0/3 (switch1) dengan Fa 0/3 (switch3)

=> Fa 0/4 (switch2) dengan Fa 0/4 (switch3)

- Root Port => Fa 0/2 (switch1)
  - => Fa 0/4 (switch3)
- Designated Port => Fa 0/3 (switch1)

=> Fa 0/1 (switch1)

=> Fa 0/4 (switch2)

=> Fa 0/1 (switch2)

=> Fa 0/2 (switch2)

=> Fa 0/1 (switch3)

#### e. Dalam kondisi default:

• Port dalam kondisi Forwarding => Fa 0/2 (switch1)

 $\Rightarrow$  Fa 0/3 (switch1)

=> Fa 0/1 (switch1)

```
=> Fa 0/4 (switch2)
=> Fa 0/1 (switch2)
=> Fa 0/2 (switch2)
=> Fa 0/1 (switch3)
=> Fa 0/4 (switch3)
```

- Port dalam kondisi Blocking => Fa 0/3 (switch3)
- f. Hasil dari ping pada PC Leo dengan PC Virgo.

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\ping 172.21.1.3

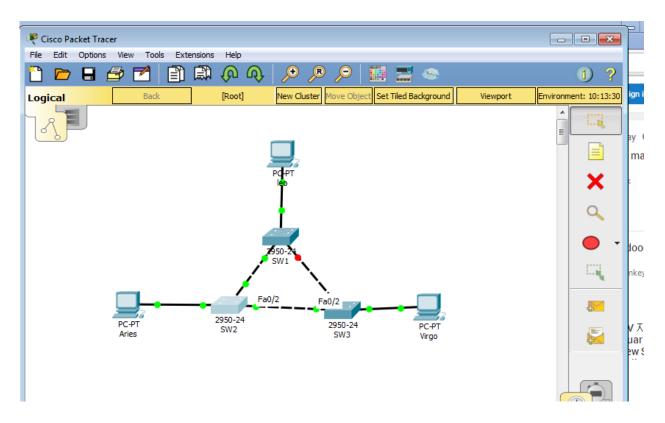
Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=17ms 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 trup times in milli=seconds:
Minimum = Oms, Maximum = 17ms, Average = 4ms

C:\>

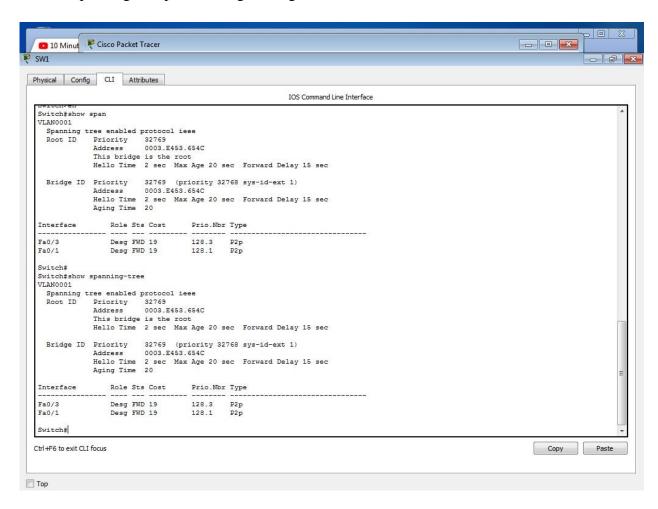
Top
```

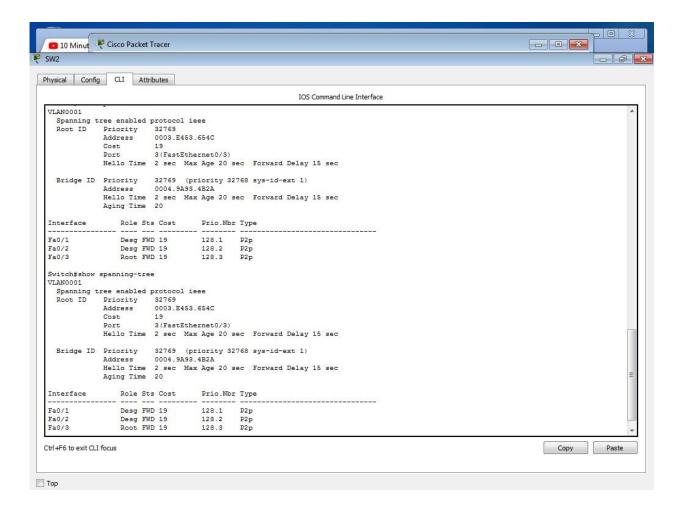
# Kegiatan 2. Topologi 2

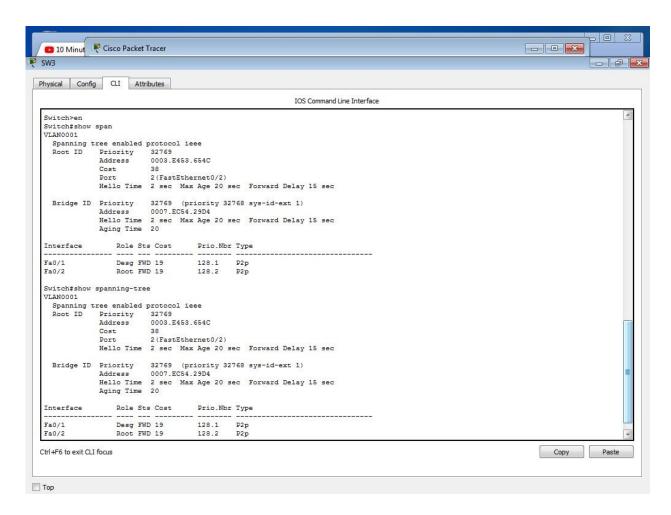


a. Karena rangkaian sebelumnya hanya diberikan sedikit perubahan, berupa penghapusan kabel dari switch1 dengan switch2.

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







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

#### • Switch1

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E453.654C
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

#### • Switch2

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E453.654C
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

#### • Switch3

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E453.654C
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 (switch1) dengan Fa 0/4 (switch3)
- Designated Bridge => Fa 0/4 (switch2) dengan Fa 0/3 (switch3)
- Root Port  $\Rightarrow$  Fa 0/3 (switch1)

• Designated Port => Fa 0/1 (switch1)

=> Fa 0/4 (switch2)

=> Fa 0/1 (switch2)

=> Fa 0/1 (switch3)

=> Fa 0/3 (switch3)

#### h. Dalam kondisi default:

• Port dalam kondisi Forwarding => Fa 0/3 (switch1)

=> Fa 0/1 (switch1)

 $\Rightarrow$  Fa 0/4 (switch2)

=> Fa 0/1 (switch2)

=> Fa 0/1 (switch3)

=> Fa 0/4 (switch3)

=> Fa 0/3 (switch3)

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

