Nama : Amartya Bintang Wijat Ranti

NIM : L200180193

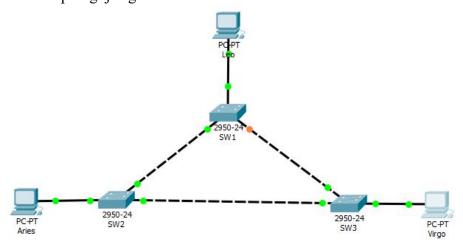
Kelas : E

Mata Kuliah: Praktikum Jaringan Komputer

## **Modul 6: Spanning Tree Protocol**

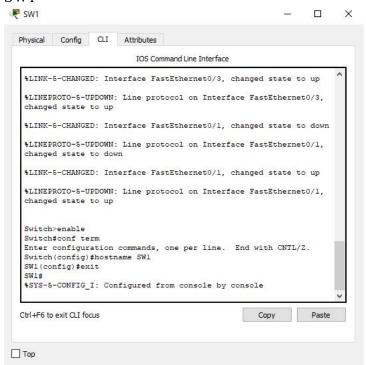
## 1. Kegiatan 1. topologi 1

a. Membuat topologi jringan

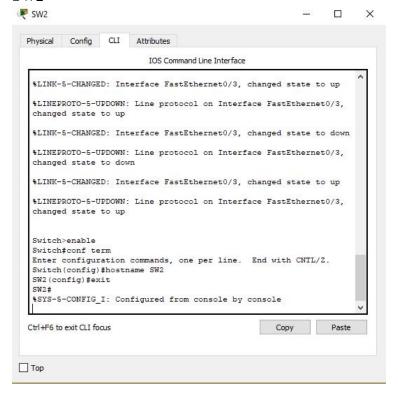


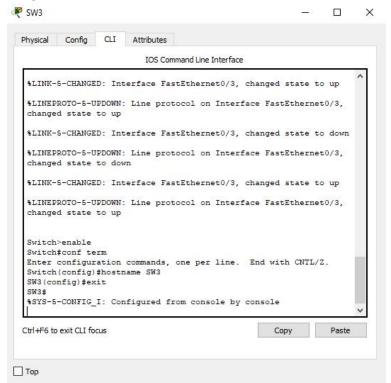
## Tugas 1A:

b. Beri nama masing - masing switch dengan SW1, SW2, dan SW3



#### • SW2





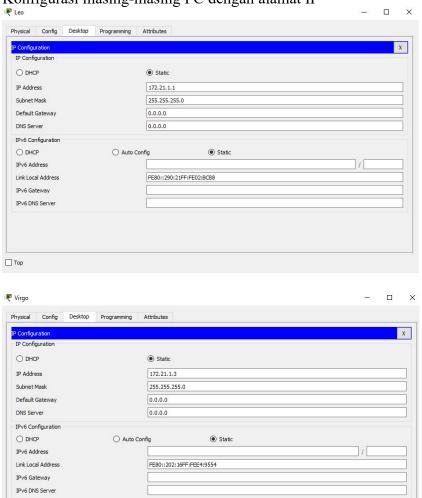
Tugas 2A: tulis langkah pemberian nama switch

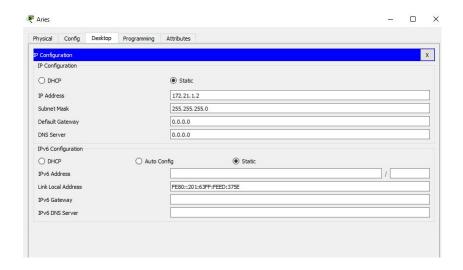
- Switch1

Switch>enable Switch#conf term Switch(config)#hostname SW1 SW1(config)#

Switch yang laiinnya juga begitu

c. Konfigurasi masing-masing PC dengan alamat IP

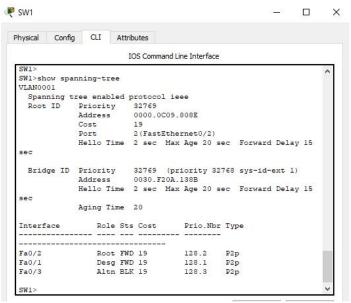


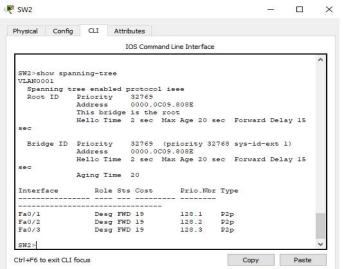


## d. Spanning Tree pada Switch

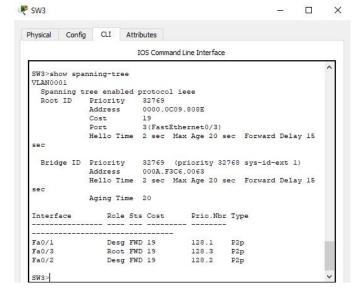
Tugas 4A: Capture masing-masing tampilan switch

#### • SW1





### • SW3



Tugas 4B: Isikan tabel

## • SW1

No	Variable	Nilai
1	Root Id	32769
2	Priority	32769
3	MAC Address	0030.F20A.138B
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	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0000.0C09.808E
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	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	000A.FC36.0063
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: SW2

- Designated bridge: SW3

- Root port : SW1(fa 0/2) dan SW2(fa 0/3)

- Designated port :

SW1(fa 0/1), SW2(fa 0/1; fa 0/2; fa 0/3) dan SW3(fa 0/1; fa 0/2)

# Tugas 4D: Menentukan port yang berada pada keadaan forwarding dan blocking

- Forwarding

SW1(fa 0/1; fa 0/2)

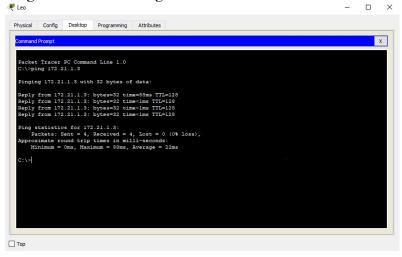
SW2(fa 0/1; fa 0/2; fa 0/3)

SW3(fa 0/1; fa 0/2; fa 0/3)

- Blocking

SW1(fa 0/3)

## e. Ping PC Leo ke PC Virgo



*Tugas 5A*: Tulis langkah untuk melakukan perintah ping Klik pada PC Leo, pilih tab desktop, setelah itu pilih command prompt, lalu ketikan 'ping 172.21.1.3' di command prompt

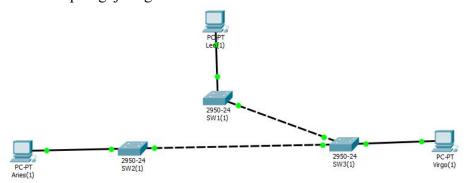
### f. Simpan konfigurasi jaringan

Tugas 6A: Tulis langkah untuk menyimpan.

Pilih menu File, lalu pilih Save, simpan dengan nama 'lab2.nwc'

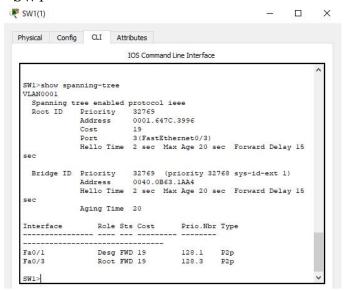
## Kegiatan 2. Topologi 2

a. Membuat topologi jaringan

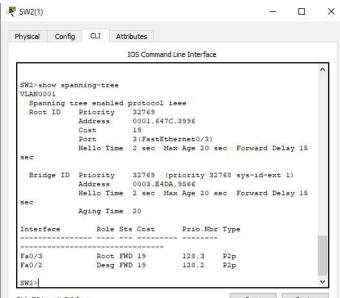


# b. Lakukan langkah 4 dan 5

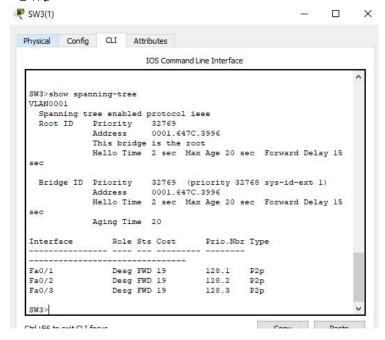
#### - SW1



### - SW2



### - SW3



## - SW1

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0040.0B63.IA44
4	Bridge ID	32769
5	Cost (0/1;0/3)	19; 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

# - SW2

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E4DA.9566
4	Bridge ID	32769
5	Cost (0/3;0/2)	19; 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

## - SW3

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.647C.3996
4	Bridge ID	32769

5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

- Root bridge: SW3

- Designated bridge: SW1 dan SW2

- Root port : SW1(fa 0/3) dan SW2(fa 0/3)

- Designated port : SW1(fa 0/1), SW2(fa 0/2), dan SW3(fa 0/1; fa 0/2; fa 0/3)

- Forwarding

SW1(fa 0/1; fa 0/3) SW2(fa 0/2; fa 0/3)

SW3(fa 0/1; fa 0/2; fa 0/3)

- Blocking

Tidak ada yang terblok

## Tugas 5A:

Klik pada PC Leo, pilih tab desktop, setelah itu pilih command prompt, lalu ketikan 'ping 172.21.1.3' di command prompt

- 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 with 32 bytes of data:
Reply from 172.21.1.3: bytes=32 time=line TTI=128
Reply from 172.21.1.3: bytes=32 timeImm TTI=128
Reply from 172.31.1.3: bytes=32 timeImm TTI=128
Reply from TTI=128
Reply from 172.31.1.3:
```