Nama: Aulia Anis R.

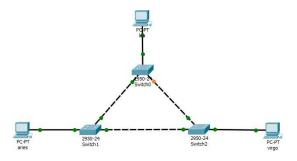
NIM : L200180041

Kelas : B

# MODUL 6 SPANNING TREE PROTOCOL

## Kegiatan 1. Topologi 1

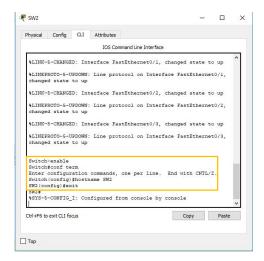
1. Rancangan Jaringan



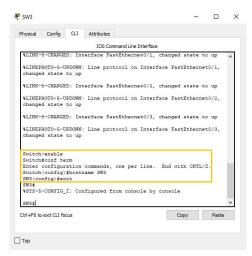
Drag 3 switch catalyst 2950 yang diambil dari network devices dan drop ke lembar kerja. Lalu drag 3 PC yang di ambil di end devices dan drop ke lembar kerja. Lalu hubungkan switch dengan switch dengan PC dengan connections.

2. Pemberian nama switch dari mode user

	Config	CLI	Attributes			
			IOS Comma	and Line Interface		
PLINK.	-5-CHANGE	D: In	terrace rastr	tnernetu/1, cnan	ged state	to up
%LINE:	PROTO-5-U	PDOWN	Line protoc	ol on Interface	FastEthern	et0/1,
change	ed state	to up				
%LINK	-5-CHANGE	D: In	terface FastE	thernet0/2, chan	ged state	to up
	00000 5 1	nnormi		col on Interface		
	ed state		: Line protoc	of ou interface	rastithern	etu/2,
		_				
*LINK	-5-CHANGE	D: In	terface FastE	thernet0/3, chan	ged state	to up
			Line protoc	col on Interface	FastEthern	et0/3,
change	ed state	to up				
	000 8410					_
	n>enable					
			commands, or	e per line. End	with CNTL	/Z.
Carital	h(config)		name SW1			
	oning) sea	110				_
SW1(c	S-CONFIG_	I: Con	nfigured from	console by cons	ole	
SW1(c						
SW1(c						
SW1(co	o exit CLI fo				Copy	Paste

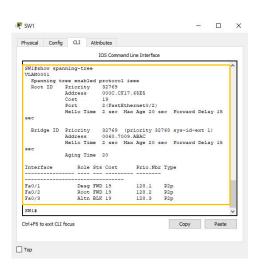


SW3

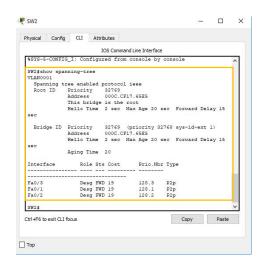


Pemberian nama masing-masing switch dengan SW1, SW2, dan SW3 dengan cara ketik **enable** lalu ketik **conf term** lalu ketik **hostname SW1** (sesuai dengan nama switch nya)

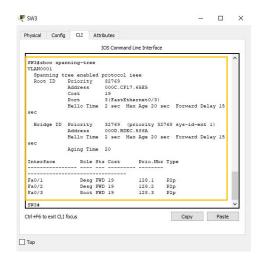
#### 3. Spanning-tree pada masing-masing switch



No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC Address	0060.7009.ABAC
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	-
3	MAC Address	000C.CF17.65E5
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	-
3	MAC Address	000D.BDEC.586A
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 : SW2Designated bridge : SW3

• Root port : SW1(0/2), SW3(0/3)

• Designated port : SW3(0/3)

• Port keadaan forwarding: SW1(0/1, 0/2), SW2(0/1, 0/2, 0/3), dan SW3(0/1, 0/2,

0/3)

• Port keadaan blocking : SW1(0/3)

## 4. Lakukan ping dari PC leo ke PC virgo

```
Physical Config Desktop Programming Attributes

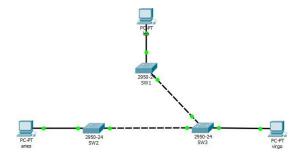
Command Prompt

Deskte Tracer DC Command Line 1.0
C:\pring 172.21.1.3 with 32 bytes of data:
Reply from 172.21.1.3 with 32 bytes of data:
Reply from 172.21.1.3: bytes=32 time=56ms TTI=128
Reply from 172.21.1.3: bytes=32 time=12ms TTI=128
Reply from 172.21.1.3: bytes=32 time=12ms TTI=128
Reply from 172.21.1.3: bytes=32 time=12ms TTI=128
Reply from 172.21.1.3: bytes=32 time=0ms TT
```

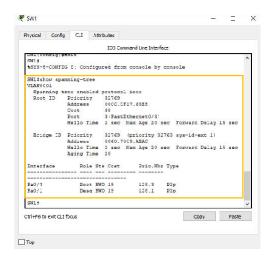
Tap 2 kali pada PC leo lalu pilih dekstop lalu pilih command prompt. Ketikkan **ping 172.21.1.3** lalu enter dan akan kaluar hasilnya. Bahwa PC leo dan PC virgo saling berhubungan.

# Kegiatan 2. Topologi 2

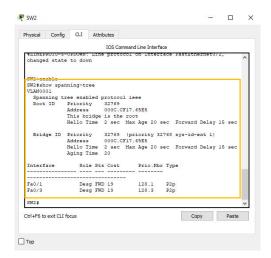
## 1. Rancangan Jaringan



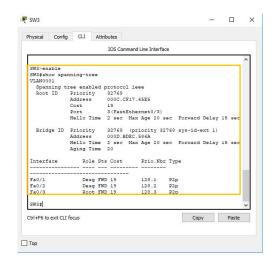
## 2. Spanning-tree pada masing-masing switch



No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC Address	0060.7009.ABAC
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	38
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec



No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC Address	000C.CF17.65E5
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	-
3	MAC Address	000D.BDEC.586A
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 : SW2Designated bridge : SW3

• Root port : SW1(0/3), SW3(0/3)

• Designated port : SW3(0/3)

• Port keadaan forwarding: SW1(0/1, 0/3), SW2(0/1, 0/3), dan SW3(0/1, 0/2, 0/3)

• Port keadaan blocking :-

## 3. Lakukan ping dari PC leo ke PC virgo

```
Packet Tracer DC Command Line 1.0
Ct\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=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

Paper from 172.21.1.3: bytes=32 time=ims 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 = 17ms, Average = Sms

Ct\d
```

Tap 2 kali pada PC leo lalu pilih dekstop lalu pilih command prompt. Ketikkan **ping 172.21.1.3** lalu enter dan akan kaluar hasilnya. Bahwa PC leo dan PC virgo saling berhubungan.