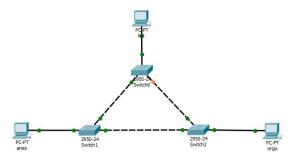
Nama : Tito Andika Wahyu Purwa

NIM : L200180007

Kelas: A

### Kegiatan 1. Topologi 1

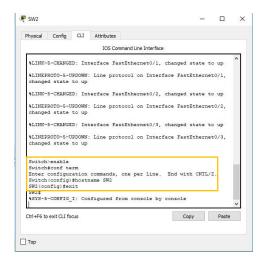
### 1. Rancangan Jaringan

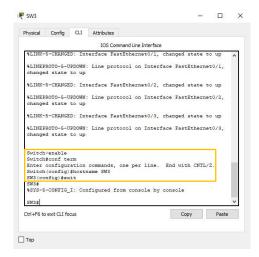


Drag 3 switch catalyst 2950 yang diambil dari network devices dan drop ke lembar kerja. Lalu drag 3 PC yang di ambil di end devices dan drop ke lembar kerja. Lalu hubungkan switch dengan switch dan switch dengan PC dengan connections.

#### 2. Pemberian nama switch dari mode user

	coming		Attributes					
			IOS Command	-				
FLINK-	5-CHANGE	D: IN	errace rastati	ernetu/i,	cnanged	state t	o up	^
<b>%LINE</b>	ROTO-5-U	PDOWN	Line protocol	on Interi	ace Fast	Etherne	t0/1.	
	d state							
PLINK-	5-CHANGE	D: Int	erface FastEth	ernet0/2,	changed :	state t	o up	
SLINEP	ROTO-5-U	PDOWN	Line protocol	on Interf	ace Fast	Etherne	t0/2,	
change	d state	to up						
PLINK-	5-CHANGE	D: In	erface FastEth	ernetu/3,	changed :	state t	o up	
SLINEP	ROTO-5-U	PDOWN	Line protocol	on Inters	ace Fast	Etherne	t0/3,	
change	d state	to up						
Switch	>enable						- I	
Switch	#conf te						٦l	
Switch Enter	#conf te	ation	commands, one	per line.	End with	h CNTL/	z.	
Switch Enter Switch	#conf te configur (config)	ation #hosts		per line.	End with	h CNTL/	z.	
Switch Enter Switch SW1(co	#conf te	ation #hosts		per line.	End with	h CNTL/	z.	
Switch Enter Switch SW1(co SW1#	#conf te configur (config) nfig)#ex	ation #host:		5		h CNTL/	z.	
Switch Enter Switch SW1 (co SW1# %SYS-5	#conf te configur (config) nfig)#ex	ation #host:	name SW1	5		h CNTL/	z.	
Switch Enter Switch SW1(co SW1#	#conf te configur (config) nfig)#ex	ation #host:	name SW1	5		h CNTL/	Z.	~
Switch Enter Switch SW1 (co SW1# %SYS-5	#conf te configur (config) nfig)#ex	ation #hosts it I: Con	name SW1	5			Z . Paste	_
Switch Enter Switch SW1(co SW1# %SYS-5	#conf te configur (config) nfig)#ex -CONFIG_	ation #hosts it I: Con	name SW1	5	console			~

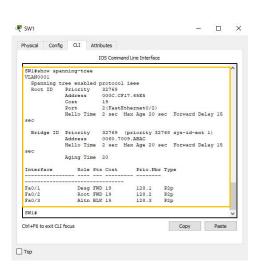




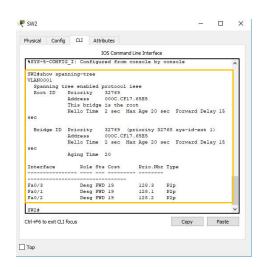
SW3

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)

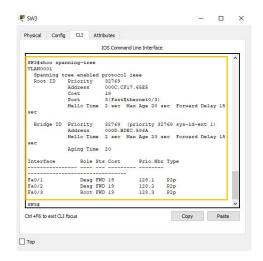
3. Spanning-tree pada masing-masing switch



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 : SW2□ Designated bridge : SW3

 $\square$  Root port : SW1(0/2), SW3(0/3)

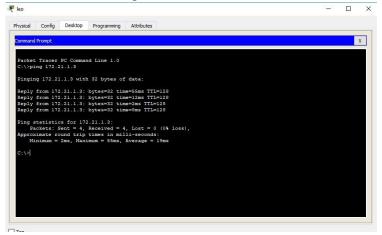
☐ Designated port : SW3(0/3)

• 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)

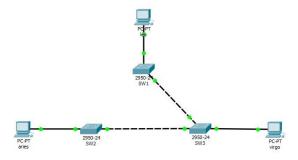
4. Lakukan ping dari PC leo ke PC virgo



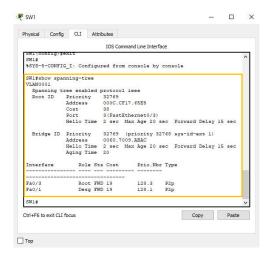
Tap 2 kali pada PC leo lalu pilih dekstop lalu pilih command prompt. Ketikkan **ping 172.21.1.3** lalu enter dan akan kaluar hasilnya. Bahwa PC leo dan PC virgo saling berhubungan.

# Kegiatan 2. Topologi 2

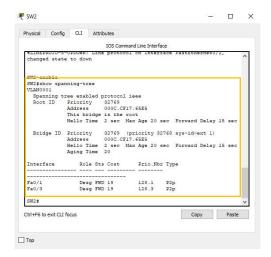
# 1. Rancangan Jaringan



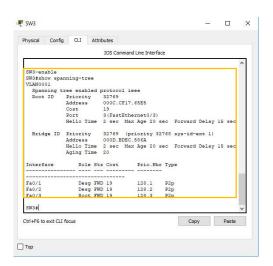
## 2. Spanning-tree pada masing-masing switch



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 : SW2

☐ Designated bridge : SW3

 $\square$  Root port : SW1(0/3), SW3(0/3)

 $\square$  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

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.