LAPORAN PRAKTIKUM JARINGAN KOMPUTER MODUL VI "SPANNING TREE PROTOCOL

NAMA : AGATHA FEBIANANDA P

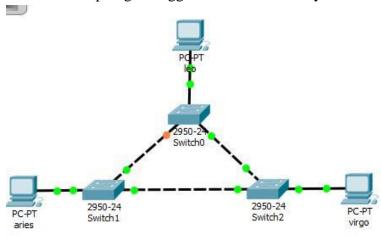
NIM : L200170127

KELAS : C

KEGIATAN PRAKTIKUM

Kegiatan 1. Topologi 1

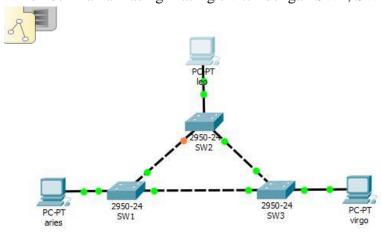
1.Membuat topologi menggunakan switch Catalyst 2950



Tugas 1A: Langkah pembuatan topologi

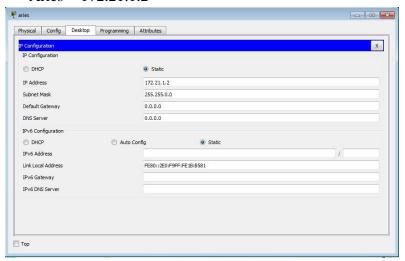
- -susun 3 buah switch catalyst 2950 secara rapi
- -tambahkan 3 buah PC
- -hubungkan setiap PC dan switch menggunakan kabel

2.Memberi nama masing-masing switch dengan SW1, SW2, dan SW3

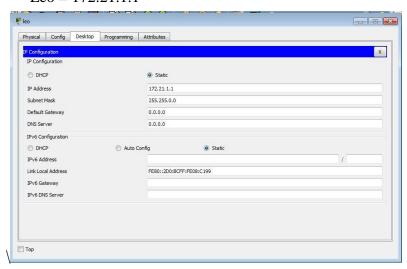


Tugas 2A: langkah-langkah pemberian nama switch mulai dari mode user

- -pertama masuk ke mode user dengan mengetik "enable"
- -untuk mengkonfigurasi harus mengganti ke mode global dengan cara mengetik "conf term"
- -untuk mengganti nama switch dapat dilakukan dengan mengetik "hostname SW1,SW2,SW3"
 - -lalu keluar dari mode global dengan mengetik "exit"
- 3.Konfigurasi masing-masing PC dengan alamat IP Aries = 172.21.1.2



Leo = 172.21.1.1



Virgo = 172.21.1.3



4. Melihat status STP pada masing-masing switch

>>SW2

Switch#show spanning-tree VLAN0001 Spanning tree enabled protocol ieee Root ID Priority 32769 Address 0001.C906.669A Cost 19 Port 2 (FastEthernet0/2) Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Bridge ID Priority 32769 (priority 32768 sys-id-ext 1) Address 0060.5C3D.C162 Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Aging Time 20 Prio.Nbr Type Interface Role Sts Cost --- --- --- -----Fa0/1 Altn BLK 19 128.1 P2p 128.2 P2p Fa0/2 Root FWD 19 128.3 P2p Fa0/3 Desg FWD 19 Switch#

>> SW1

Switch#show VLAN0001	spanning-tre	e				^
945551855185	ree enabled	protocol ie	00			
	Priority					
1000 10	Address		669A			
	Cost					
	Port		rnet0/2)			
	Hello Time			ec Forward	Delay 15	
sec			25%		150	
Bridge ID	Priority	32769 (pr	iority 32	768 sys-id-	ext 1)	
SUDDENTA TO	Address			reme nationalisms		
	Hello Time	2 sec Max	Age 20 s	ec Forward	Delay 15	
sec						
	Aging Time	20				
Interface	Role St	s Cost	Prio.Nbr	Туре		
				i.		
Fa0/1	Desg FW	D 19	128.1	P2p		П
Fa0/2	Root FW	D 19	128.2	P2p		111
Fa0/3	Desg FW	D 19	128.3	P2p		=

>> SW3

VLAN0001	ree enabled p		ione			
	Priority	31000000000000	1666			
KOOT ID	20 00 00 00 00 00 00 PM					
	Address					
	This bridge	is the	root			
	Hello Time	2 sec 1	Max Age 20	sec Forward	Delay 15	
sec						
Bridge ID	Priority	32769	(priority	32768 sys-id-	ext 1)	
	Address	0001.C9	06.669A			
	Hello Time	2 sec 1	Max Age 20	sec Forward	Delay 15	
sec			Zarwania Rol €, onepouso		egit abasen.≜ ma excen	
	Aging Time	20				
Interface	Role Sts	s Cost	Prio.N	br Type		
				22		
Fa0/1	Desg FWI	D 19	128.1	P2p		
Fa0/2	Desg FWI	0 19	128.2	P2p		
Fa0/3	Desg FWI	0.10	128.3	P2p		

Tugas 4B

SW1

NO	VARIABEL	NILAI
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.C906.669A
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20
8	Forward Delay	15

SW2

NO	VARIABEL	NILAI
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.C906.669A
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20
8	Forward Delay	15

SW3

NO	VARIABEL	NILAI
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.C906.669A
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20
8	Forward Delay	15

5.Melakukan ping dari PC Leo ke PC Virgo

```
Physical Config Desktop Programming Attributes

Command Prompt

X

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=12ms 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
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.
```

Tugas 5A: Langkah melakukan ping

- -buka command prompt pada PC Leo
- -ketik ping 172.21.1.3

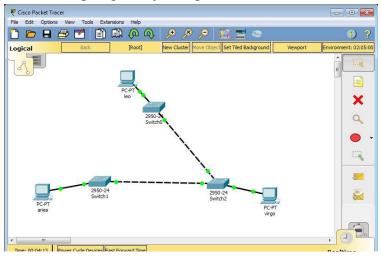
6.Menyimpan konfigurasi jaringan dengan nama lab2.pkt



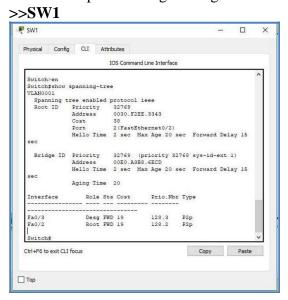
Tugas 6A: langkah menyimpan konfigurasi jaringan dengan cara mengetikkan pada mode user "write"

Kegiatan 2. Topologi 2

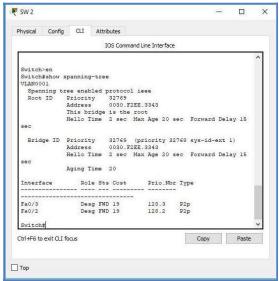
Membuat topologi menjadi seperti berikut



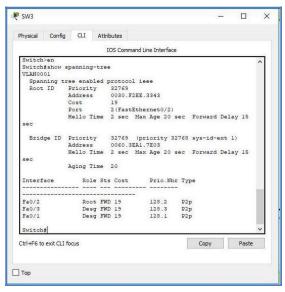
Melihat status STP pada masing-masing switch.



>>SW2



>>SW3



Melakukan 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

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=40ms TTL=128
Reply from 172.21.1.3: bytes=32 time=5ms TTL=128

Ping statistics for 172.21.1.3:

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

Minimum = 0ms, Maximum = 40ms, Average = 10ms

C-\>
```