NAMA : Tino Arif Priyanto

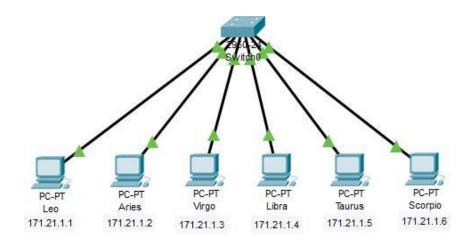
NIM : L200170131

KELAS : C Modul : 4

MODUL 4

Kegiatan 1. Topologi 1

1. Desain topologi, penamaan, dan penyetingan IP address



2. Konfigurasi pada switch untuk membuat 3 Vlan dengan nama zodiak1, zodiak2, dan zodiak3



Physical Config CLI Attributes

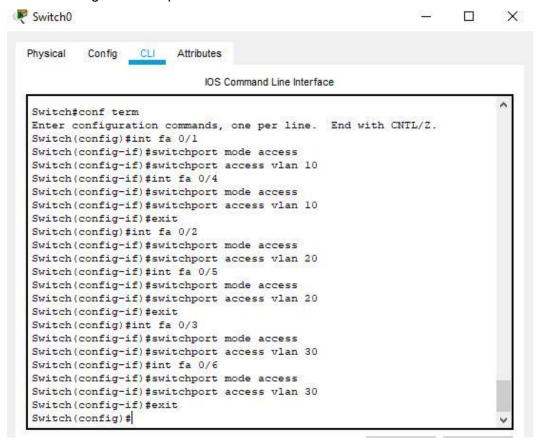
Switch(config-vlan)#exit

Switch(config)#

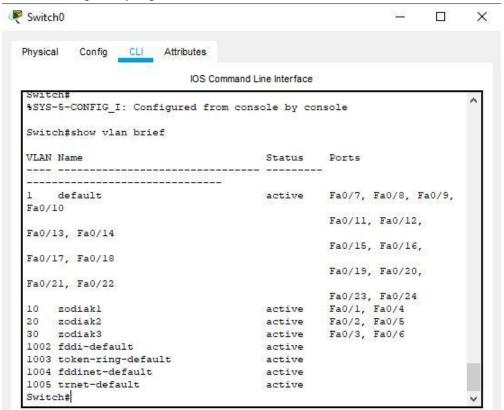
IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to up %LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up Switch>enable Switch#conf term Enter configuration commands, one per line. End with ${\tt CNTL/Z}$. Switch(config) #vlan 10 Switch(config-vlan) #name zodiakl Switch(config-vlan) #exit Switch(config) #vlan 20 Switch(config-vlan) #name zodiak2 Switch(config-vlan) #exit Switch(config) #vlan 30 Switch(config-vlan) #name zodiak3

- 3. Konfigurasi port-port switch ke dalam vlan zodiak1, zodiak2, dan zodiak3 dengan anggota sebagai berikut
 - Zodiak1 = leo dan libra
 - Zodiak2 = aries dan Taurus
 - Zodiak3 = virgo dan scorpio



4. Melihan konfigurasi yang telah dibuat



- Informasi vlan 10

VLAN	Name				Stat	tus P	orts		
7577	77.775								
-									
10	zodia	kl			act:	ive F	a0/1,	Fa0/4	
	_	03.TD		2					
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeN	o Stp	BrdgMode	
Trans	sl Tra	ns2							
10	enet	100010	1500	-	-	5 -0 1	2 - 22	-	0

- Informasi vlan 20

		w vlan id 2							
VLAN	Name				Star	tus Po	rts		

20	zodia	k2			act:	ive Fa	0/2,	Fa0/5	
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	
Tran	sl Tran	ns2							
			1222						
20	enet	100020	1500	7.	-	17.	-	6 75 5	0

- Informasi vlan 30

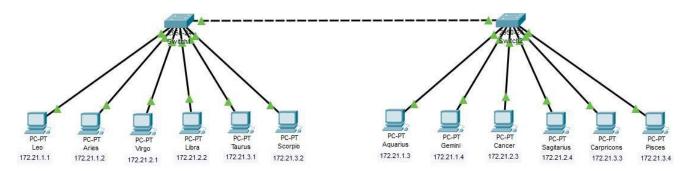
Swite	ch#sho	w vlan id 3	0						
VLAN	Name				Sta	tus I	Ports		
30	zodia	k3	*****		act	ive I	Ta0/3,	Fa0/€	
	Type sl Tra		MTU	Parent	RingNo	Bridgel	lo Stp	BrdgMode	
			-						
30 0	enet	100030	1500	-	-	% <u>+</u> :	-	(-)	0

5. Table informasi tentang vlan

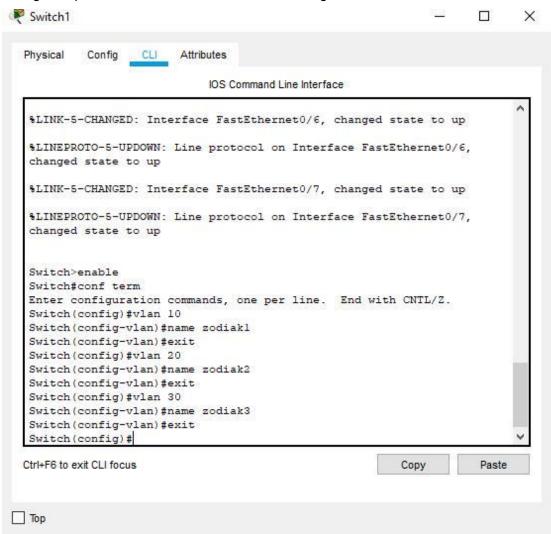
No	Variabel	Nilai				
1.	Nomer VLAN	10	20	30		
2.	Nama VLAN	Zodiak1	Zodiak2	Zodiak3		
3.	Port	Fa 0/1, Fa 0/4	Fa 0/2, Fa 0/5	Fa 0/3, Fa 0/6		
4.	Status	Aktif	Aktif	Aktif		

Kegiatan 2. Topologi 2

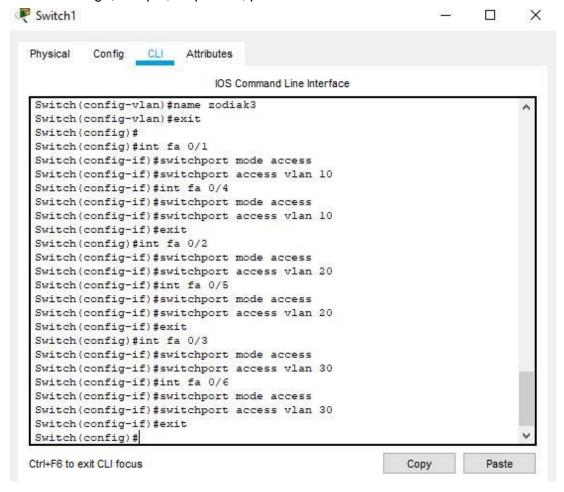
1. Membuat topologi, menamai, dan menyeting IP address



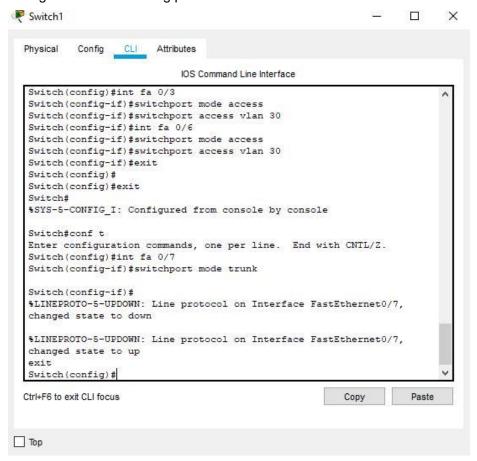
2. Konfigurasi pada switch untuk membuat 3 Vlan dengan nama zodiak1, zodiak2, dan zodiak3



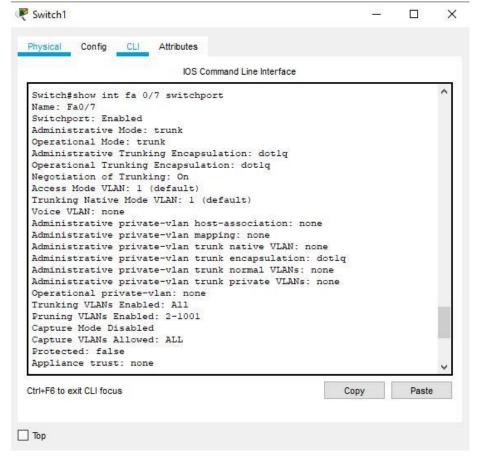
- 3. Konfigurasi port-port switch ke dalam vlan zodiak1, zodiak2, dan zodiak3 dengan anggota sebagai berikut
 - Zodiak1 = leo, libra, aquarius, gemini
 - Zodiak2 = aries, Taurus, cancer, sagitarius
 - Zodiak3 = virgo, scorpio, carpricons, pisces

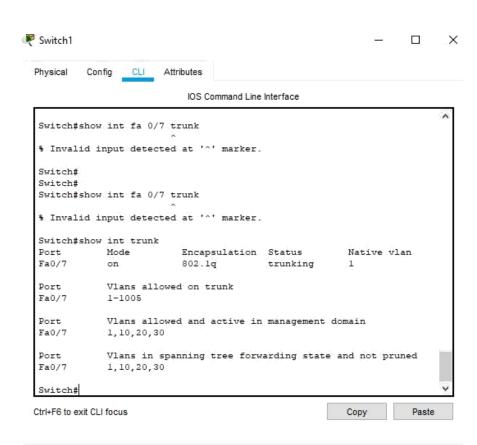


4. Konfigurasi VLAN trunking pada switch 1

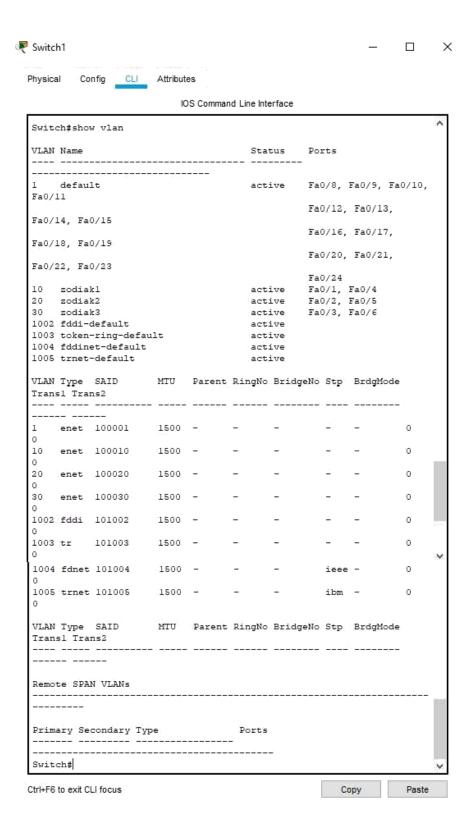


5. Melihat hasil konfigurasi trunking pada switch 1



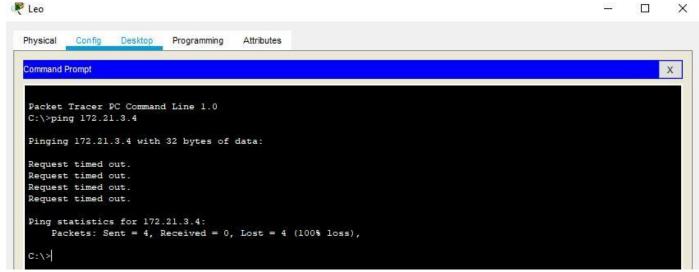


Тор



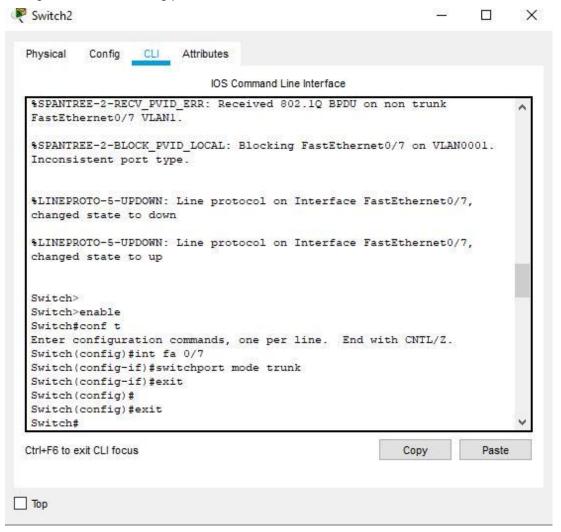
Pada langkah ini port yang sudah terkonfigurasi ke dalam vlan yaitu port 0/1 sampai port 0/6, sedangkan port 0/7 untuk trunking antar switch.

6. Uji coba ping antara PC leo dengan PC pisces

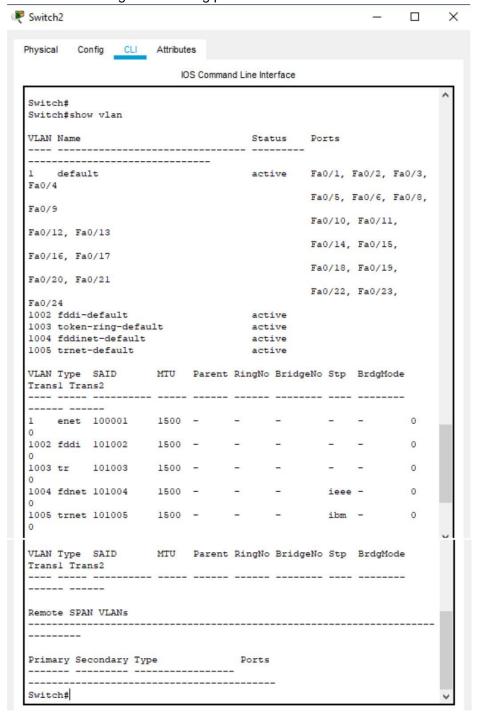


Hasil yang didapat masih RTO, karena PC pisces tidak berada pada VLAN yang sama dengan PC Leo

7. Konfigurasi VLAN trunking pada switch 2

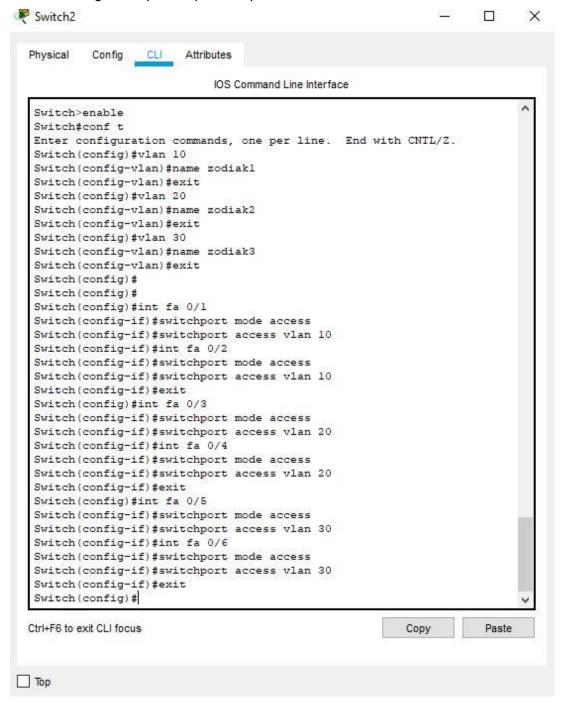


8. Melihat hasil konfigurasi trunking pada switch 2



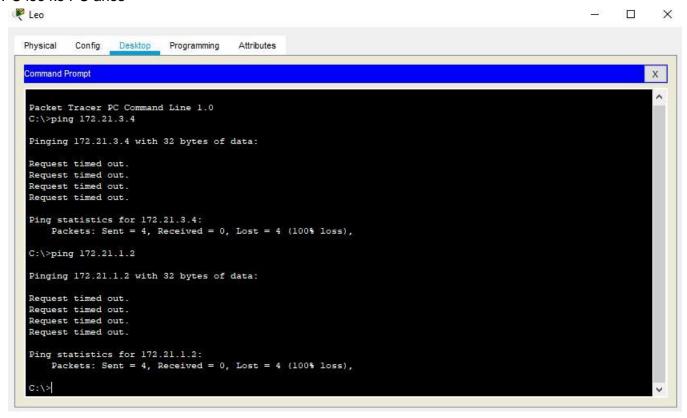
Pada langkah ini port port fastethernet belum terkonfigurasi ke dalam VLAN, bahkan VLAN nya belum dibuat

- 9. Konfigurasi port port kedalam VLAN zodiak1, zodiak2, dan zodiak3 dengan anggota sebagai berikut
 - Zodiak1 = leo, libra, aquarius, gemini
 - Zodiak2 = aries, Taurus, cancer, sagitarius
 - Zodiak3 = virgo, scorpio, carpricons, pisces



10. Uji coba ping

- PC leo ke PC aries



PC leo ke PC aquarius

```
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=118ms 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 trip times in milli-seconds:

Minimum = 0ms, Maximum = 118ms, Average = 29ms

C:\>
```

PC leo ke PC pisces

```
C:\>ping 172.21.3.4

Pinging 172.21.3.4 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 172.21.3.4:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC libra ke PC cancer

```
Libra
                                                                                                         Physical
          Config Desktop Programming
                                       Attributes
  Command Prompt
  Packet Tracer PC Command Line 1.0
  C:\>ping 172.21.2.3
  Pinging 172.21.2.3 with 32 bytes of data:
  Request timed out.
  Request timed out.
  Request timed out.
  Request timed out.
  Ping statistics for 172.21.2.3:
      Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
  C:\>
```

PC libra ke PC leo

```
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=lms TTL=128
Reply from 172.21.1.1: bytes=32 time<lms TTL=128

Ping statistics for 172.21.1.1:

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

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Dari hasil percobaan diatas, dapat disimpulkan apabila PC berada pada VLAN yang sama, maka akan menghasilkan status Reply pada saat pengujian ping, seperti contohnya PC leo ke PC aquarius dan PC libra ke PC leo.

Akan tetapi jika berada pada VLAN yang berbeda akan menghasilkan status RTO seperti contoh pada PC leo ke PC aries, PC leo ke PC pisces, dan PC libra ke PC cancer