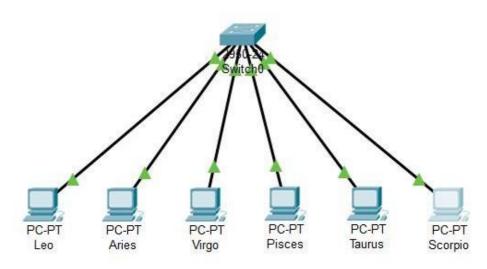
Nama : Robby Novianto

NIM : L200180050

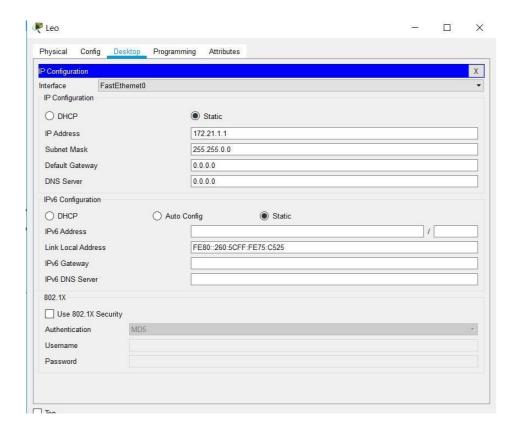
Kelas : B

Kegiatan 1. Topologi 1

### Modul 04



- 1. Menggunakan packet tracer buat topologi seperti pada gambar dengan mengguknakan switch
- 2. Beri nama masing-masing perangkat dengan SW1(switch), Leo(PC0), Aries(PC1), Virgo(PC2), Pisces(PC3), Taurus(PC4), dan Scorpio(PC5)
- 3. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini :
  - o Leo = 172.21.1.1/24
  - o Aries = 172.21.1.2/24
  - o Virgo = 172.21.1.3/24
  - o Pisces = 172.21.1.4/24
  - o Taurus = 172.21.1.5/24
  - o Scorpio = 172.21.1.6/24



4. Konfigurasi pada switch dengan mode user atau mode privileged, buat 3 VLAN dengan nam zodiak1, zodiak2, zodiak3. Dengan cara klik pada switch 2 kali.

## Langkah pengoperasian:

Switch>enable

Switch#conf term

Switch(config)#vlan 10

Switch(config-vlan)#name zodiak1

Switch(config-vlan)#exit

Switch(config)#vlan 20

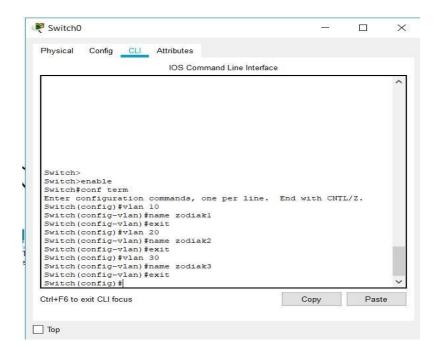
Switch(config-vlan)#name zodiak2

Switch(config-vlan)#exit

Switch(config)#vlan 30

Switch(config-vlan)#name zodiak3

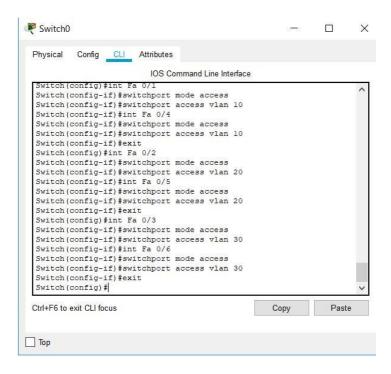
Switch(config-vlan)#exit



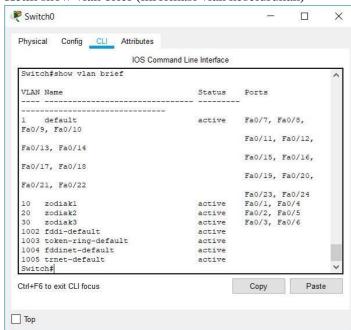
- 5. Pada mode configuration, konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, zodiak3 dengan anggota sebagai berikut :
  - zodiak1 = Leo dan Pisces
  - zodiak2 = Aries dan Taurus
  - zodiak3 = Virgo dan Scorpio

# langkah pengoperasian:

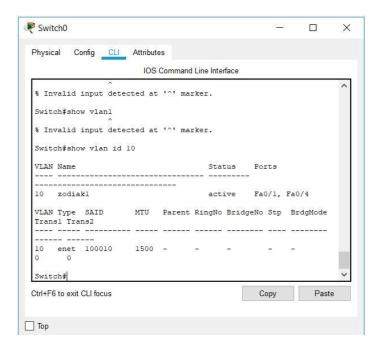
- Masuk mode configuration
- Ketik interface Fastethernet 0/1
- Ketik switchport mode access
- Ketik switchport access vlan 10
- Ketik interface Fastethernet 0/4
- Ketik switchport mode access
- Ketik switchport access vlan 10
- Ketik exit
- Lakukan langkah-langkah diatas untuk port VLAN zodiak2 (Ariesdan Taurus) dan port VLAN zodiak3 (Virgo dan Scorpio)



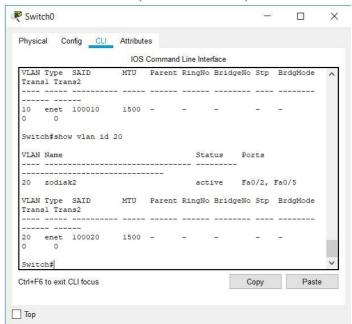
- 6. Pada mode user atau mode privileged, lihat konfigurasi VLAN yang telah dibuat. Langkah untuk melihat konfigurasi :
  - Tekan enter
  - Masuk mode privileged
  - Ketik show vlan brief (informasi vlan keseluruhan)



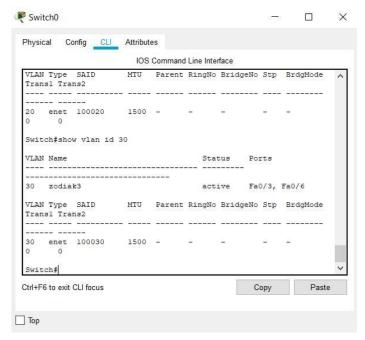
- Ketik show vlan id 10 (informasi vlan 10)



- Ketik show vlan id 20 (informasi vlan 20)



- Ketik show vlan id 30 (informasi vlan 30)

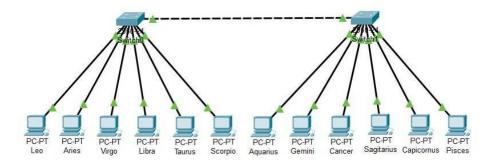


Tugas 6A:

No	Variabel	Nilai		
		vlan id 10	vlan id 20	vlan id 30
1	Nomor VLAN	10	20	30
2	Nama VLAN	zodiak1	zodiak2	zodiak3
3	Port	Fa0/1, Fa0/4	Fa0/2, Fa05	Fa0/3, Fa0/6
4	Status	active	active	Active

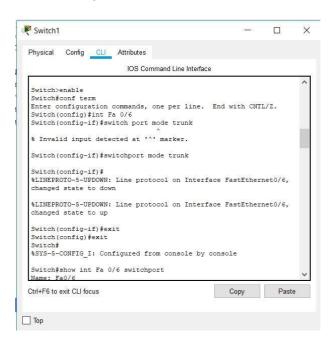
### Kegiatan 2. Topologi 2

1. Menggunakan cisco packet tracer buat topologi berikut:



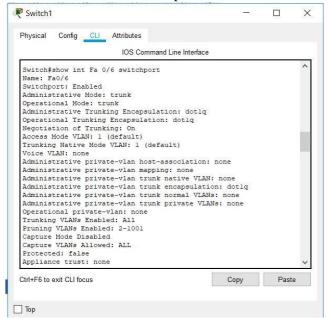
- 2. Beri nama masing-masing perangkat dengan SW1(switch 1), Leo(PC0), Aries(PC1), Virgo(PC2), Libra(PC3), Taurus(PC4), dan Scorpio(PC5) untuk segmen switch 1.
- 3. Beri nama masing-masing perangkat dengan SW2(switch 2), Aquarius(PC6), Gemini(PC7), Cancer(PC8), Sagitarius(PC9), Capricornus(PC10), dan Pisces(PC11) untuk segmen switch 2.
- 4. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini :

- $\circ$  Leo = 172.21.1.1/24
- $\circ$  Aries = 172.21.1.2/24
- $\circ$  Virgo = 172.21.2.1/24
- o Libra = 172.21.2.2/24
- o Taurus = 172.21.3.1/24
- o Scorpio = 172.21.3.2/24
- o Aquarius = 172.21.1.3/24
- o Gemini = 172.21.1.4/24
- $\circ$  Cancer = 172.21.2.3/24
- $\circ$  Sagitarius = 172.21.2.4/24
- o Capriconus = 172.21.3.3/24
- $\circ$  Pisces = 172.21.3.4/24
- 5. Konfigurasi VLAN trunking pada switch 1. Langkah pengoperasian :
- Switch(config)#interface Fa 0/6
- Switch(config-if)#switchport mode trunk
- Switch(config-if)#exit

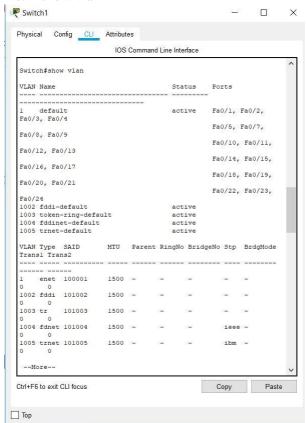


### 6. Melihat konfugurasi:

• Ketik show int Fa 0/6 switchport



• Ketik show vlan



#### 7. Lakukan PC Leoke PC Pisces

```
Physical Config Desktop Programming Attributes

Command Prompt

X

Pinging 172.21.3.4 with 32 bytes of data:

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),

C:\>ping 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),

C:\>ping 172.21.3.4

Pinging 172.21.3.4 with 32 bytes of data:

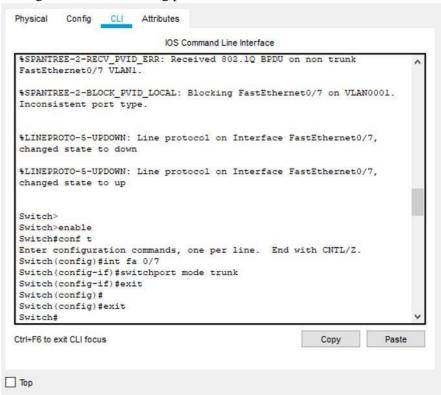
Request timed out.

Ping statistics for 172.21.3.4:

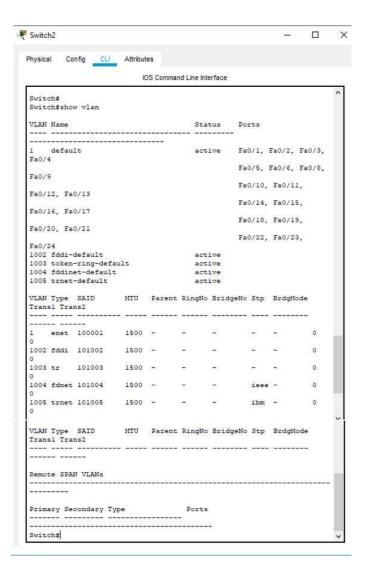
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

8. Konfigurasi VLAN trunking pada switch 2



9. Melihat hasil konfigurasi trunking pada switch 2



10. Uji coba ping

```
Physical Config Desitop Programming Attributes

Command Prompt

X

Packet Tracer PC Command Line 1.0

C:\vping 172.21.3.4 with 32 bytes of data:

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),

C:\vping 172.21.1.2 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 172.21.1.2:

Ping statistics for 172.21.1.2 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

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

C:\vping 172.21.1.2 with 32 bytes of data:

Programming timed out.

Request timed out.

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

C:\vping 172.21.1.3
```

```
C:\>ping 172.21.1.3 with 32 bytes of data:

Roply from 172.21.1.3 bytes=23 time=lifes TII=128

Roply from 172.21.1.3 bytes=23 time-lifes TII=128

Roply from 172.21.1.3 bytes=23 time-life TII=128

Roply from 172.21.1.3 bytes=32 time-life TII=128

Roply from 172.21.1.3 bytes=32 time-life TII=128

Paper statistics for 172.21.1.3:

Packets: Sent = 4, Roctived = 4, Lost = 0 (04 loss),

Approximate round trip times in milli-seconds:

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

C:\>
```

```
C:\>pinging 172.21.3.4

Pinging 172.21.3.4 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 172.21.3.4:

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

C:\>
```

```
C:\Oping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time*lns TTL=128

Peng statistics for 172.21.1.1:

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

Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = lns, Average = Oms

C:\O
```

Dari hasil percobaan diatas, dapat disimpulkan apabila PC berada pada VLAN yang sama, maka akan menghasilkan status Reply. Akan tetapi jika berada pada VLAN yang berbeda akan menghasilkan status Request Time Out