Nama: Prihadina Ayunia Wardhani

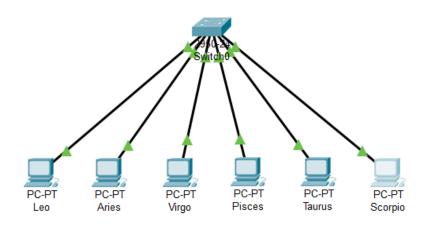
NIM : L200170007

Kelas: A

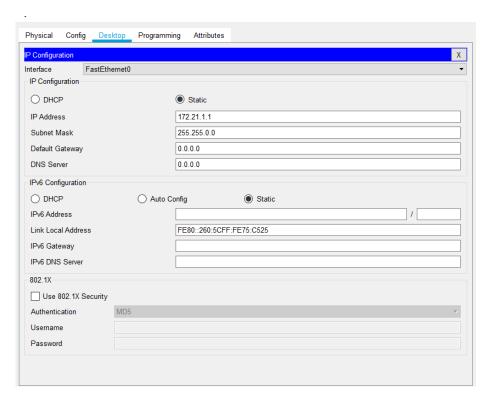
Modul: 4

Kegiatan1. Topologi 1

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:
 - ✓ Leo = 172.21.1.1/24
 - \checkmark Aries = 172.21.1.2/24
 - ✓ Virgo = 172.21.1.3/24
 - \checkmark Pisces = 172.21.1.4/24
 - ✓ Taurus = 172.21.1.5/24
 - ✓ 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

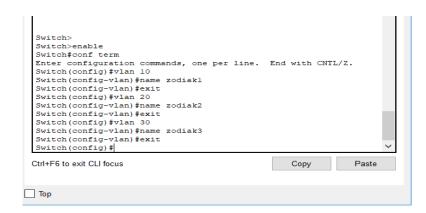
Switch(config-vlan)#name zodiak2

Switch(config-vlan)#exit

Switch(config)#vlan 30

Switch(config-vlan)#name zodiak3

Switch(config-vlan)#exit



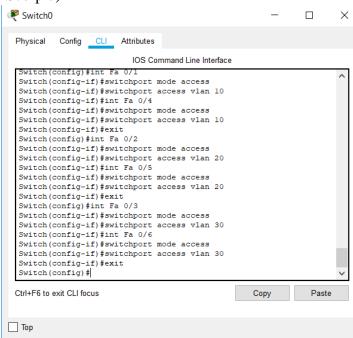
5. Pada mode configuration, konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, zodiak3 dengan anggota sebagai berikut :

- ✓ zodiak1 = Leo dan Pisces
- ✓ zodiak2 = Aries dan Taurus
- ✓ zodiak3 = Virgo dan Scorpio

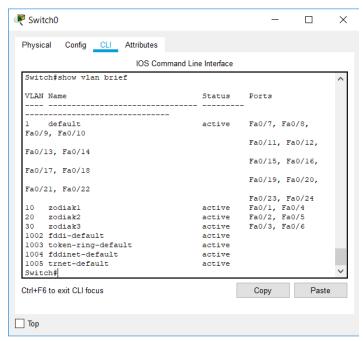
Langkah pengoperasian:

- ✓ 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

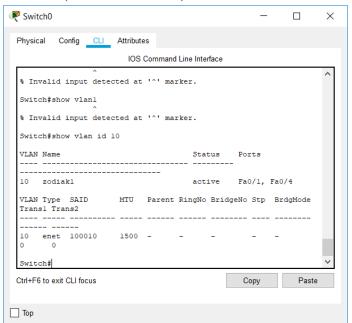
Lakukan langkah-langkah diatas untuk port VLAN zodiak2 (Ariesdan Taurus) dan port VLAN zodiak3 (Virgo dan Scorpio)



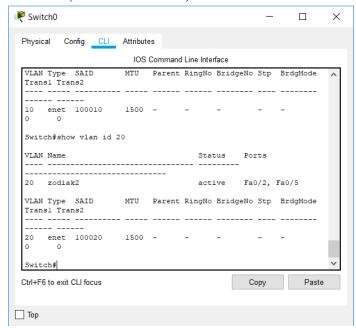
- 6. Pada mode user atau mode privileged, lihat konfigurasi VLAN yang telah dibuat. Langkah untuk melihat konfigurasi :
 - Tekan enter
 - Masuk mode privileged
 - Ketik show vlan brief (informasi vlan keseluruhan)



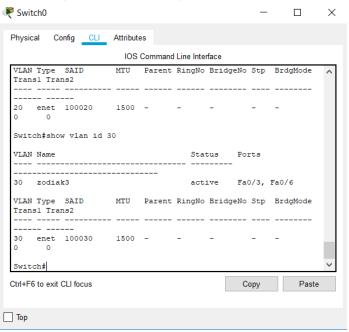
- Ketik show vlan id 10 (informasi vlan 10)



- Ketik show vlan id 20 (informasi vlan 20)



- Ketik show vlan id 30 (informasi vlan 30)

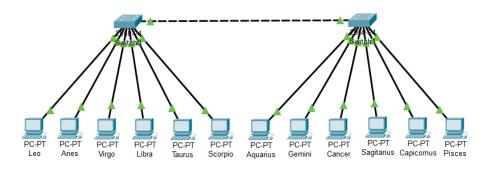


Tugas 6A:

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 :



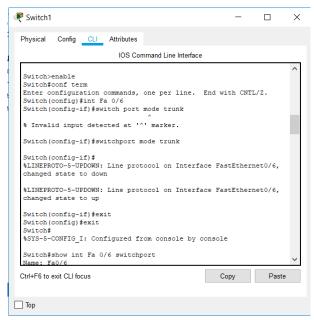
- 2. Beri nama masing-masing perangkat dengan SW1(switch 1), Leo(PC0), Aries(PC1), Virgo(PC2), Libra(PC3), Taurus(PC4), dan Scorpio(PC5) untuk segmen switch 1.
- 3. Beri nama masing-masing perangkat dengan SW2(switch 2), Aquarius(PC6), Gemini(PC7), Cancer(PC8), Sagitarius(PC9), Capricornus(PC10), dan Pisces(PC11) untuk segmen switch 2.
- 4. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini:
 - ✓ Leo = 172.21.1.1/24
 - \checkmark Aries = 172.21.1.2/24
 - ✓ Virgo = 172.21.2.1/24
 - \checkmark Libra = 172.21.2.2/24
 - \checkmark Taurus = 172.21.3.1/24
 - ✓ Scorpio = 172.21.3.2/24
 - ✓ Aquarius = 172.21.1.3/24
 - ✓ Gemini = 172.21.1.4/24
 - \checkmark Cancer = 172.21.2.3/24
 - ✓ Sagitarius = 172.21.2.4/24
 - ✓ Capriconus = 172.21.3.3/24
 - \checkmark Pisces = 172.21.3.4/24
- 5. Konfigurasi VLAN trunking pada switch 1.

Langkah pengoperasian:

Switch(config)#interface Fa 0/6

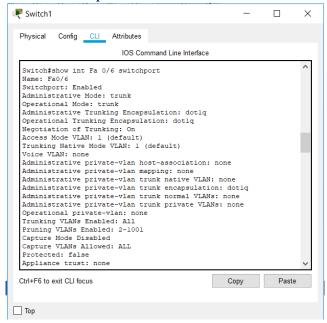
Switch(config-if)#switchport mode trunk

Switch(config-if)#exit

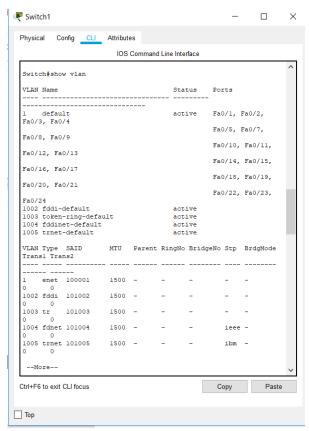


6. Melihat konfugurasi:

Ketik show int Fa 0/6 switchport



• Ketik show vlan



7. Lakukan PC Leoke PC Pisces

```
Physical Config Desktop Programming Attributes

Command Prompt

Finging 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:\>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:

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

C:\>ping 172.21.3.4

Finging 172.21.3.4

Finging 172.21.3.4 with 32 bytes of data:

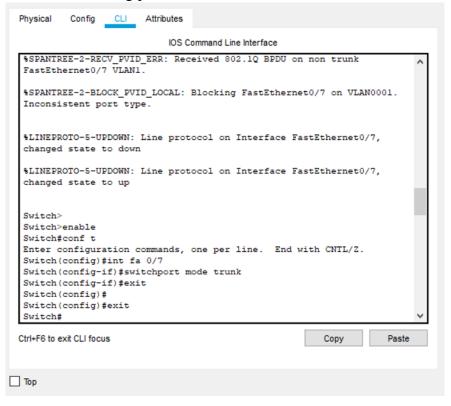
Request timed out.

Ping statistics for 172.21.3.4:

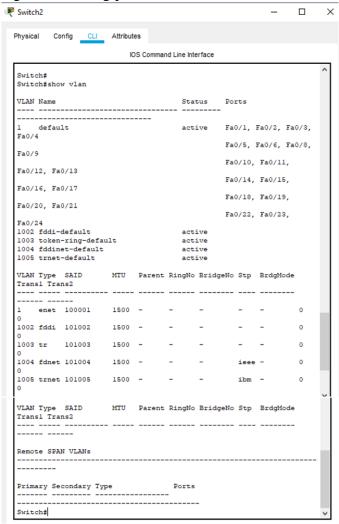
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

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

Packet Tracer PC Command Line 1.0
C:\pingi 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:
    Fackets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\pingi 172.21.1.2 with 32 bytes of data:
Request timed out.
Req
```

```
C:\Ding 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=116ms TIL=128

Reply from 172.21.1.3: bytes=32 time=116ms TIL=128

Reply from 172.21.1.3: bytes=32 time:lims TIL=128

Ping tatalistics for 172.21.1.3:

Ping tatalistics for 172.21.1.3:

Ping tatalistics for 172.21.1.3:

Ping tatalistics for 172.21.1.3:

Reply from 172.21.1.3:
```

```
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.

Ping statistics for 172.21.3.4:

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

C:\>
```

```
Physical Config Destop Programming Attributes

Command Frompt

X

Packet Tracer PC Command Line 1.0

C:\Ping 172.21.2.3 with 32 bytes of data:
Request timed out.
C:\\
Ping statistics for 172.21.2.3:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\\
```

```
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<!ns TIL=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 = Ons, Maximum = Ins, Average = Ons

C:\>
```

Kesimpulan: 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.