Nama: Pawitro Purbangkoro

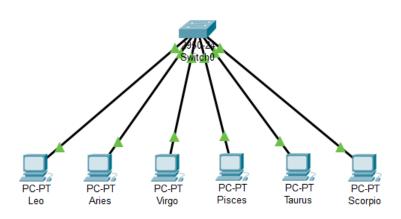
NIM : L200170045

Kelas: B

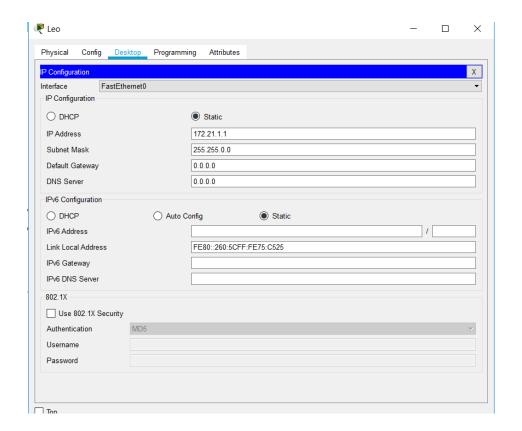
Modul 04

Kegiatan1.

1. Menggunakan packet tracer buat topologi seperti pada gambar :



- 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
 - 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

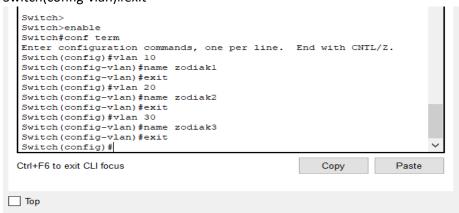
Switch(config-vlan)#name zodiak2

Switch(config-vlan)#exit

Switch(config)#vlan 30

Switch(config-vlan)#name zodiak3

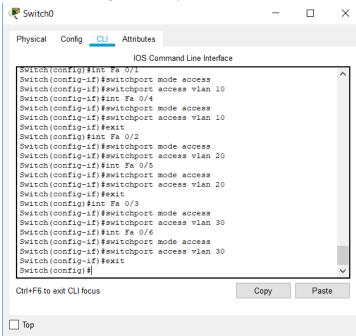
Switch(config-vlan)#exit



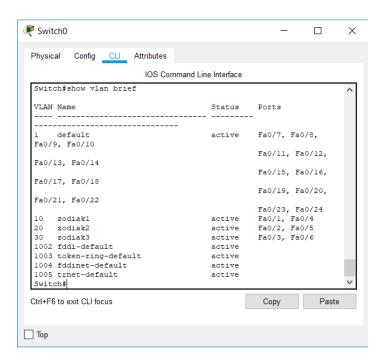
- 5. Pada mode configuration, konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, zodiak3 dengan anggota sebagai berikut :
 - zodiak1 = Leo dan Pisces
 - zodiak2 = Aries dan Taurus
 - zodiak3 = Virgo dan Scorpio

langkah pengoperasian:

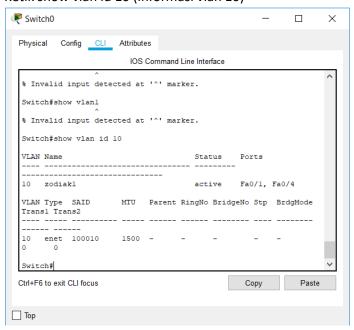
- Masuk mode configuration
- Ketik interface Fastethernet 0/1
- Ketik switchport mode access
- Ketik switchport access vlan 10
- Ketik interface Fastethernet 0/4
- Ketik switchport mode access
- Ketik switchport access vlan 10
- Ketik exit
- Lakukan langkah-langkah diatas untuk port VLAN zodiak2 (Ariesdan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



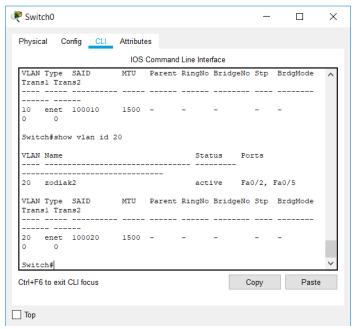
- 6. Pada mode user atau mode privileged, lihat konfigurasi VLAN yang telah dibuat. Langkah untuk melihat konfigurasi :
 - Tekan enter
 - Masuk mode privileged
 - Ketik show vlan brief (informasi vlan keseluruhan)



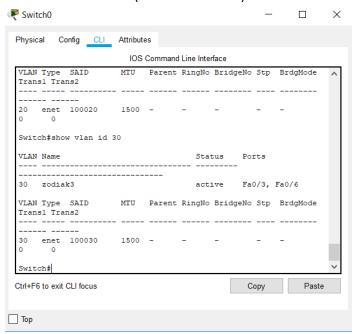
Ketik show vlan id 10 (informasi vlan 10)



- Ketik show vlan id 20 (informasi vlan 20)



- Ketik show vlan id 30 (informasi vlan 30)

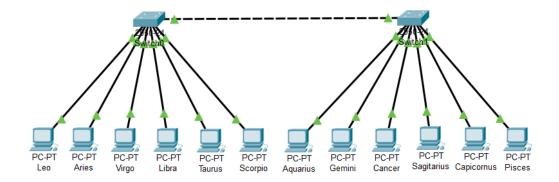


• Tugas 6A:

No	Variabel	Nilai		
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

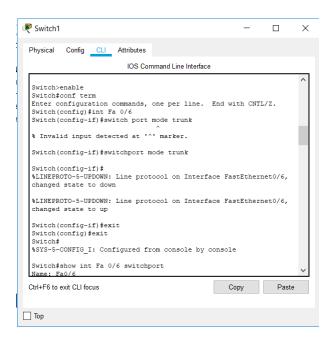
Kegiatan 2

1. Menggunakan cisco packet tracer buat topologi berikut:



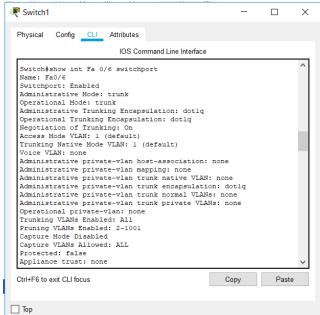
- 2. Beri nama masing-masing perangkat dengan SW1(switch 1), Leo(PC0), Aries(PC1), Virgo(PC2), Libra(PC3), Taurus(PC4), dan Scorpio(PC5) untuk segmen switch 1
- 3. Beri nama masing-masing perangkat dengan SW2(switch 2), Aquarius(PC6), Gemini(PC7), Cancer(PC8), Sagitarius(PC9), Capricornus(PC10), dan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

- 5. Langkah pengoperasian konfigurasi VLAN trunking pada switch 1:
- Switch(config)#interface Fa 0/6
- Switch(config-if)#switchport mode trunk
- Switch(config-if)#exit

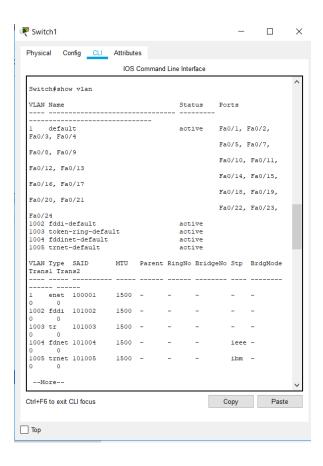


6. Melihat konfugurasi:

• Ketik show int Fa 0/6 switchport



Ketik show vlan



7. Ping PC Leoke PC Pisces

```
Physical Config Desktop Programming Attributes

Command Prompt

X

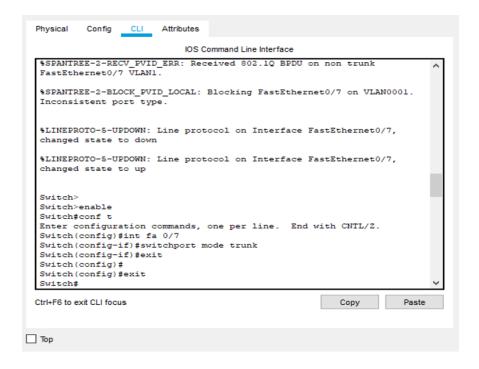
Pinging 172.21.3.4 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.3.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 172.21.3.4

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),
C:\>ping 172.21.3.4

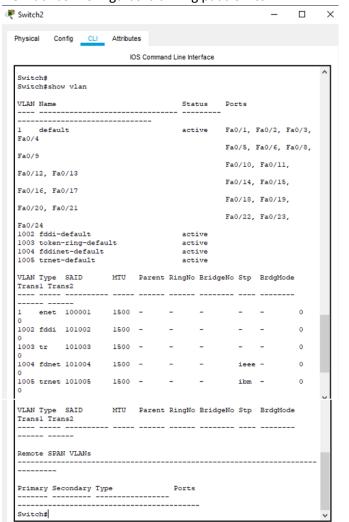
Pinging 172.21.3.4

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

PC Leo ke PC Aries

```
Physical Config Desitop Programming Attributes

Command Primpt

Recent Traces PC Command Line 1.0

C:\Pping 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:\Pping 172.21.1.2 with 32 bytes of data:

Request timed out.

Request timed out.
```

PC Leo ke PC Aquarius

```
PC leo ke PC aquarius

C:\ping 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=110ms TTL=120
Reply from 172.21.1.3: bytes=32 time=110ms TTL=120
Reply from 172.21.1.3: bytes=32 time=inm TTL=120
Reply from 172.21.1.3: bytes=32 time-inm TTL=120
Reply from 172.21.1.3: bytes=32 time-inm TTL=120
Ping statistics for 172.21.1.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0* loss),
Approximate round trip times in milli-seconds:
Hinimum = Oms, Haximum = 110ms, Average = 29ms

C:\D
```

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.

Ping statistics for 172.21.3.4:

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

C:\>
```

PC Libra ke PC Cacer

```
Libra — 

Physical Config Desktop Programming Attributes

Command Prompt

X

Packet Tracer PC Command Line 1.0
C:\rightarrow 172.21.2.3

Pinnging 172.21.2.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Pang statistics for 172.21.2.3:

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

C:\rightarrow 1
```

PC Libra ke PC Leo

```
C:\>ping 172.21.1.1 with 32 bytes of data:

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 = lms, Average = 0ms

C:\>
```

- Dari hasil percobaan tersebut disimpulkan bahwa PC pada VLAN yang sama akan menghasilkan status Reply
- Akan tetapi jika berada pada VLAN yang berbeda akan menghasilkan status Request Time Out