Nama: Riris Agriela Savitri

NIM : L200170029

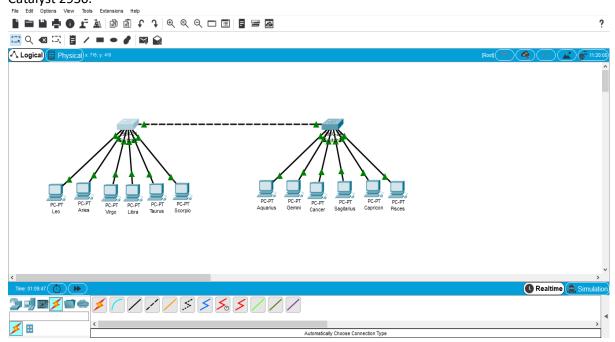
Kelas: B

MODUL 4

VIRTUAL LAN DAN TRUNKING

Kegiatan 2. Topologi 2

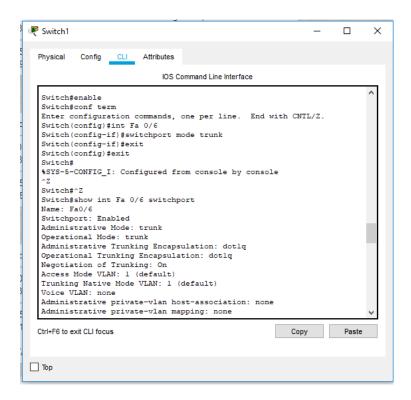
1. Menggunakan cisco packet tracer membuat topologi berikut dengan menguunakan switch Catalyst 2950.



- 2. Memberi 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. Memberi 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
 - Aries = 172.21.1.2/24
 - Virgo = 172.21.2.1/24
 - Libra = 172.21.2.2/24
 - Taurus = 172.21.3.1/24
 - Scorpio = 172.21.3.2/24
 - Aquarius = 172.21.1.3/24
 - Gemini = 172.21.1.4/24
 - Cancer = 172.21.2.3/24
 - Sagitarius = 172.21.2.4/24
 - Capriconus = 172.21.3.3/24
 - Pisces = 172.21.3.4/24
- 5. Konfigurasi VLAN trunking pada switch 1.

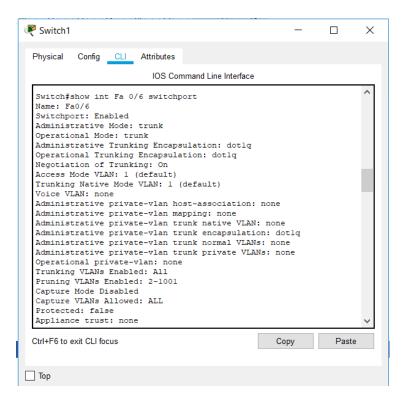
Langkah pengoperasian:

- Masuk pada mode configuration
- Masuk pada mode interface yang di pakai untuk trunking
- Switch(config)#interface Fa 0/6
- Switch(config-if)#switchport mode trunk
- Switch(config-if)#exit

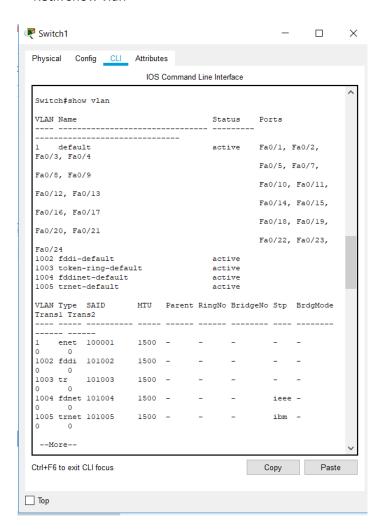


6. Melihat konfugurasi:

- Ketik show int Fa 0/6 switchport



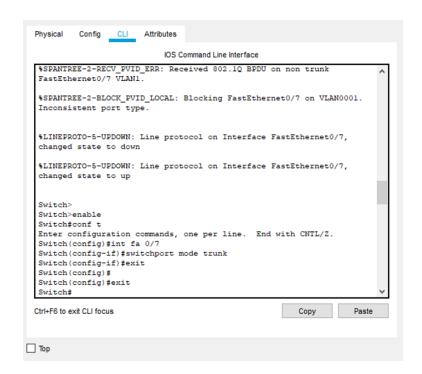
Ketik show vlan



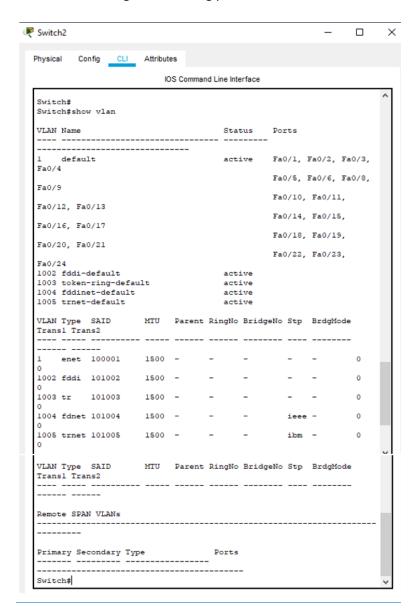
7. Lakukan PC Leoke PC Pisces

```
- □ ×
№ Leo
  Physical Config Desktop Programming Attributes
  Command Prompt
   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 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),
   Pinging 172.21.3.4 with 32 bytes of data:
   Request timed out.
   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),
Пор
```

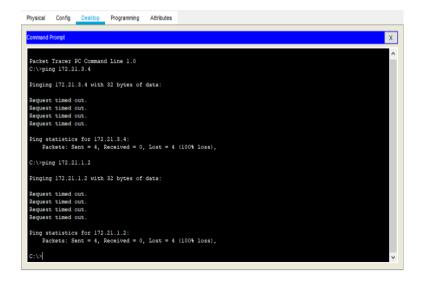
8. Konfigurasi VLAN trunking pada switch 2



9. Melihat hasil konfigurasi trunking pada switch 2



10. Uji coba ping



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=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
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:

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

C:\>
```

```
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:\>
```

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.2.3 with 32 bytes of data:

Request simed 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:\>|
```

```
C:\>ping 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
Reply from 172.21.1.1: bytes=32 time<lms TTL=128
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 = Oms, Maximum = lms, Average = Oms
C:\>
```

Kesimpulan dari kegiatan di atas adalah apabila PC berada pada VLAN yang sama, maka akan menghasilkan status Reply. Tetapi jika berada pada VLAN yang berbeda akan menghasilkan status Request Time Out.