

Nama : Faizal Wahyu Nuramadhan

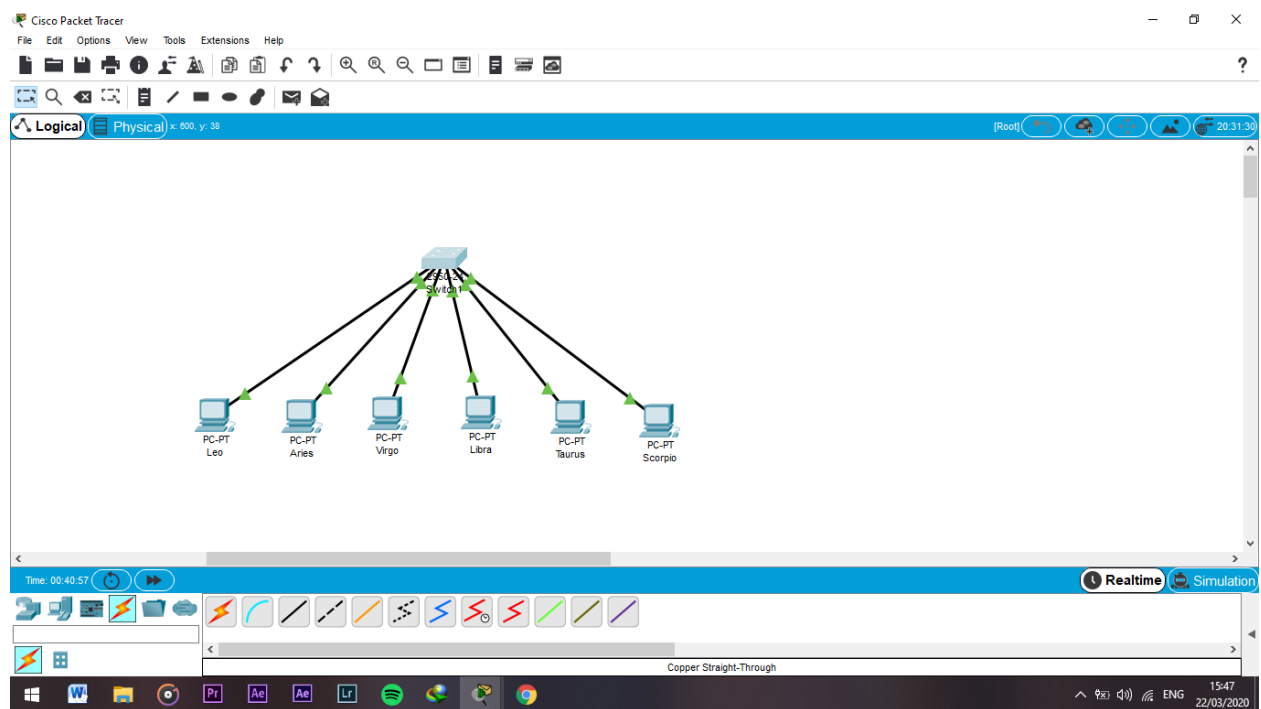
NIM : L200180011

Kelas : A

Modul 4

Kegiatan 1

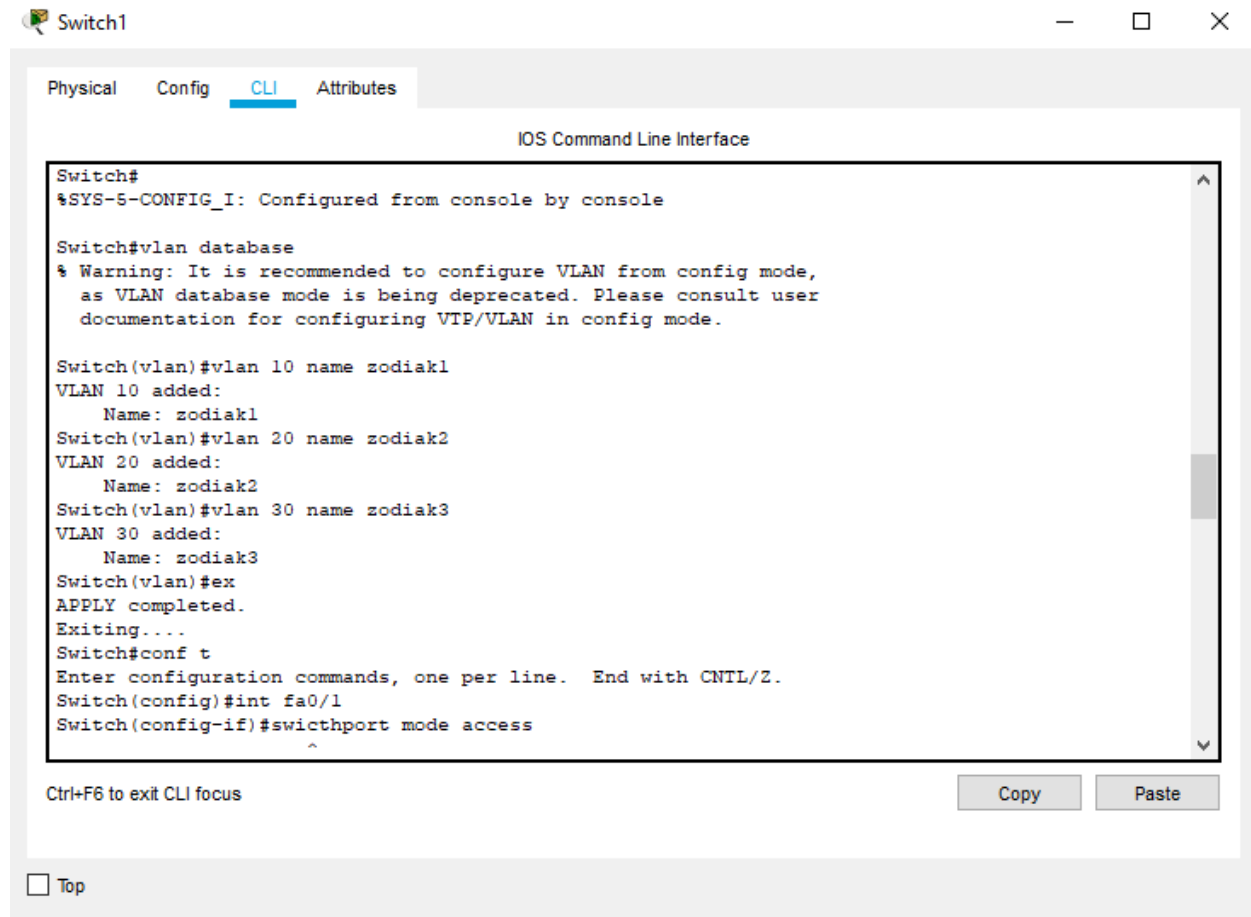
Topologi



Ip Address pada tiap tiap computer

- Leo = 172.21.1.1/24
- Aries = 172.21.1.2/24
- Virgo = 172.21.1.3/24
- Libra = 172.21.1.4/24
- Taurus = 172.21.1.5/24
- Scorpio = 172.21.1.6/24

Membuat 3 VLAN di Switch



```
Switch1
Physical Config CLI Attributes
IOS Command Line Interface
Switch#
%SYS-S-CONFIG_I: Configured from console by console

Switch#vlan database
% Warning: It is recommended to configure VLAN from config mode,
as VLAN database mode is being deprecated. Please consult user
documentation for configuring VTP/VLAN in config mode.

Switch(vlan)#vlan 10 name zodiak1
VLAN 10 added:
  Name: zodiak1
Switch(vlan)#vlan 20 name zodiak2
VLAN 20 added:
  Name: zodiak2
Switch(vlan)#vlan 30 name zodiak3
VLAN 30 added:
  Name: zodiak3
Switch(vlan)#ex
APPLY completed.
Exiting....
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access

Ctrl+F6 to exit CLI focus
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Top
```

Konfigurasi port port switch ke dalam VLAN

Switch1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
APPLY completed.
Exiting....
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
```

Ctrl+F6 to exit CLI focus

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```
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

Ctrl+F6 to exit CLI focus

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Melihat Konfig VLAN

```
Switch#show lan brief
^
% Invalid input detected at '^' marker.
```

```
Switch#show vlan brief
```

VLAN Name	Status	Ports
1 default	active	Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24
10 zodiak1	active	Fa0/1, Fa0/4
20 zodiak2	active	Fa0/2, Fa0/5
30 zodiak3	active	Fa0/3, Fa0/6
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

```
Switch#show vlan id2
```

Switch1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#show vlan id 10
```

VLAN Name	Status	Ports
10 zodiak1	active	Fa0/1, Fa0/4

```
Switch#show vlan id 20
```

VLAN Name	Status	Ports
20 zodiak2	active	Fa0/2, Fa0/5

```
Switch#show vlan id 30
```

VLAN Name	Status	Ports
30 zodiak3	active	Fa0/3, Fa0/6

Ctrl+F6 to exit CLI focus

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```

Switch#show vlan id 20

VLAN Name                Status    Ports
-----
20    zodiak2                active    Fa0/2, Fa0/5

VLAN Type  SAID      MTU    Parent RingNo BridgeNo Stp  BrdgMode Transl Trans2
-----
20    enet    100020    1500    -      -      -      -      -      0      0

Switch#show vlan id 30

VLAN Name                Status    Ports
-----
30    zodiak3                active    Fa0/3, Fa0/6

VLAN Type  SAID      MTU    Parent RingNo BridgeNo Stp  BrdgMode Transl Trans2
-----
30    enet    100030    1500    -      -      -      -      -      0      0

Switch#

```

TUGAS 6A

NO	VARIABLE	NILAI
1	Nomor VLAN	10
2	Nama VLAN	Zodiak1
3	Port	Fa0/1, fa0/4
4	Status	active

NO	VARIABLE	NILAI
1	Nomor VLAN	20
2	Nama VLAN	Zodiak2
3	Port	Fa0/2, fa0/5
4	Status	active

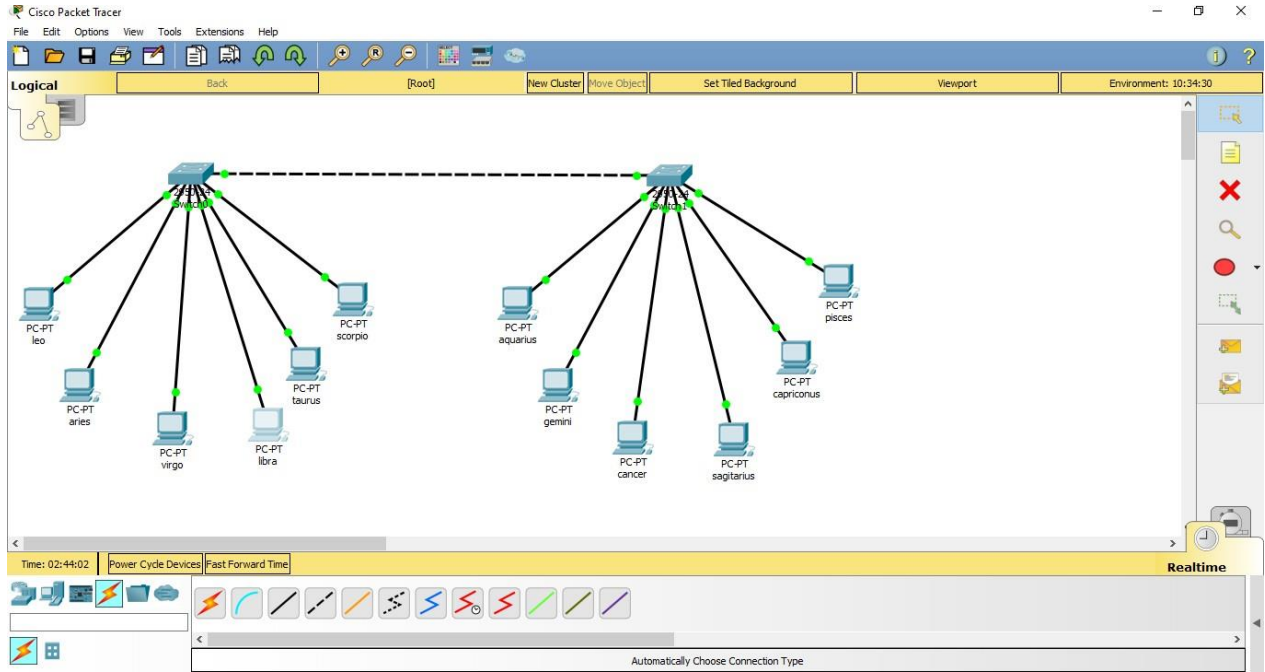
NO	VARIABLE	NILAI
1	Nomor VLAN	30
2	Nama VLAN	Zodiak3
3	Port	Fa0/3, fa0/6
4	Status	active

Tugas 6B

Hasil dari 6A yaitu configuration yang kita lakukan telah menjadikan 3 id vlan yang terdiri dari zodiak1(10), zodiak2(20), zodiak3(30) dan masing-masing id vlan diisi dengan 2 port (PC/Client) dan semua vlan statusnya telah aktif

Kegiatan 2

Topologi



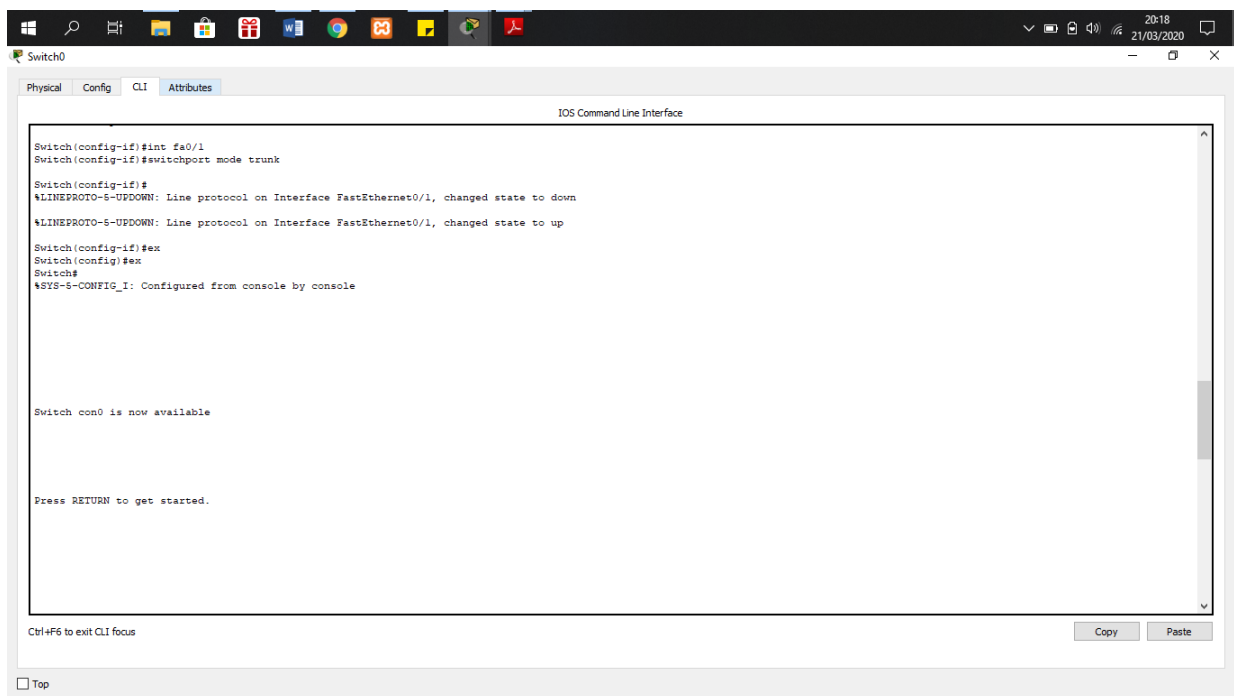
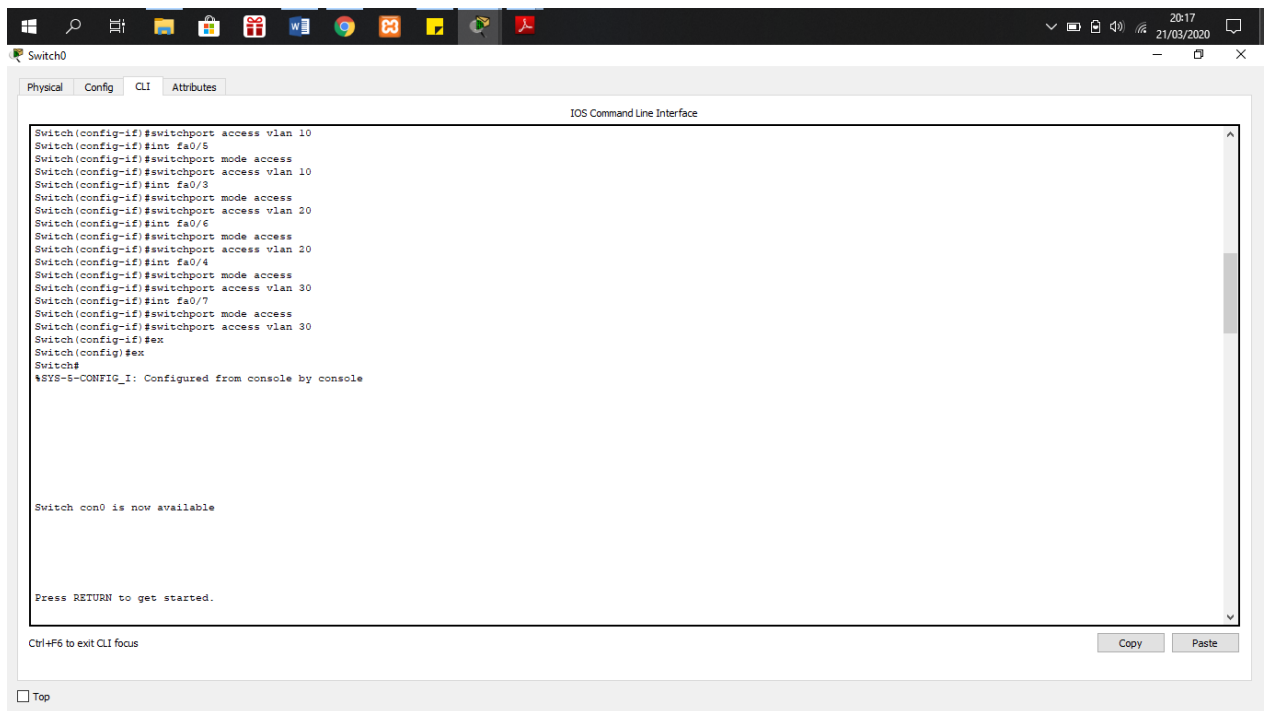
Konfig Switch

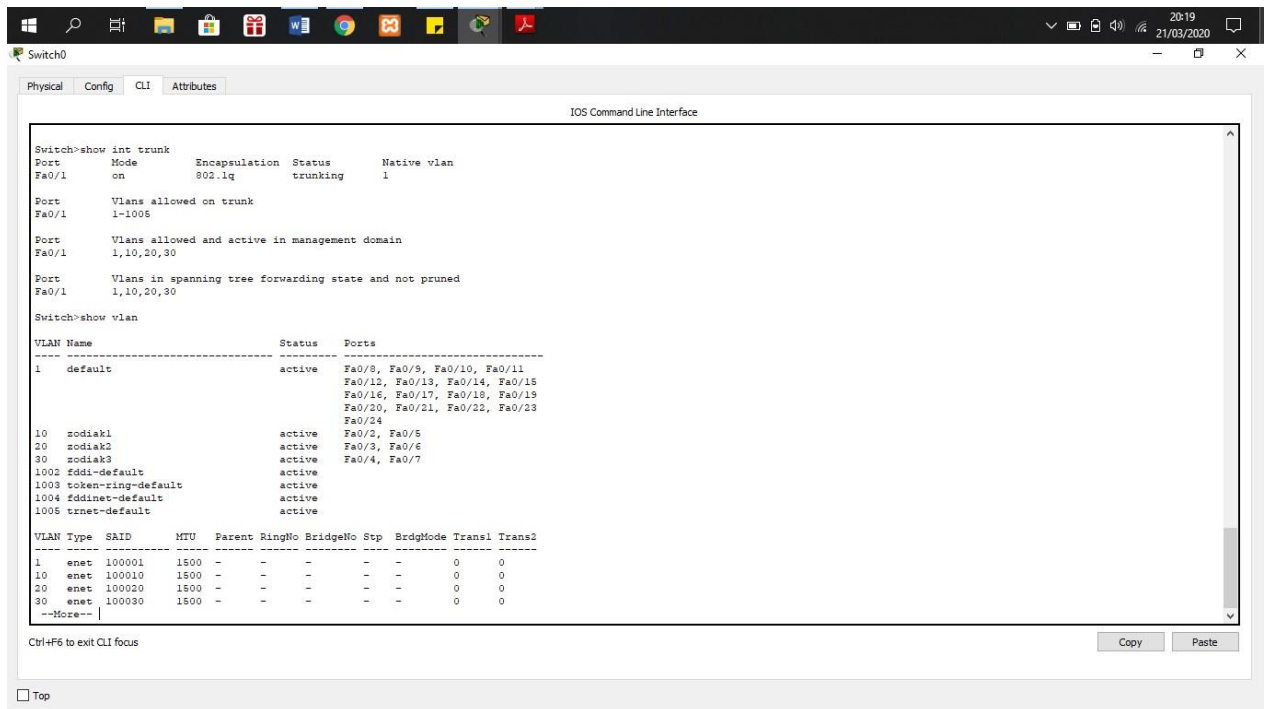
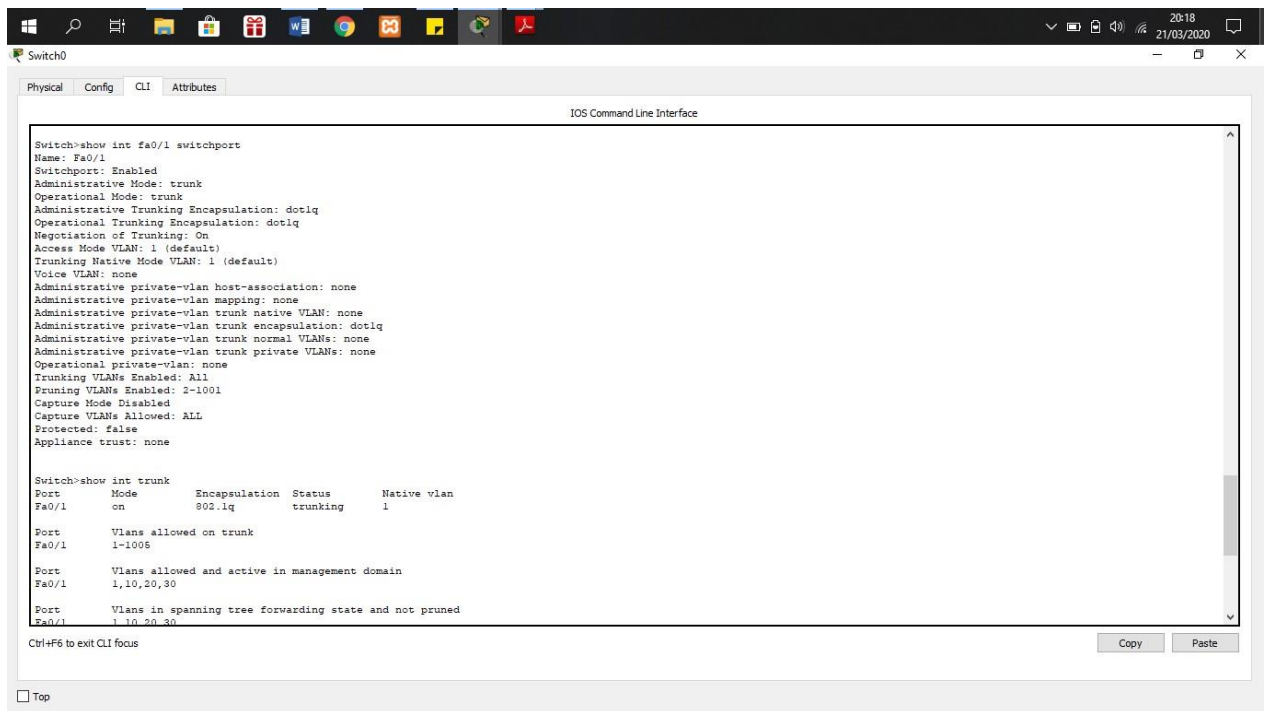
```
Switch0
Physical Config CLI Attributes
IOS Command Line Interface

Switch>enable
Switch#
Switch#vlan database
* Warning: It is recommended to configure VLAN from config mode,
as VLAN database mode is being deprecated. Please consult user
documentation for configuring VTP/VLAN in config mode.

Switch(vlan)#vlan 10 name zodiak1
VLAN 10 modified:
  Name: zodiak1
Switch(vlan)#vlan 20 name zodiak2
VLAN 20 modified:
  Name: zodiak2
Switch(vlan)#vlan 30 name zodiak3
VLAN 30 modified:
  Name: zodiak3
Switch(vlan)#ex
APPLY completed.
Exiting....
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/8
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/7
Switch(config-if)#switchport mode access

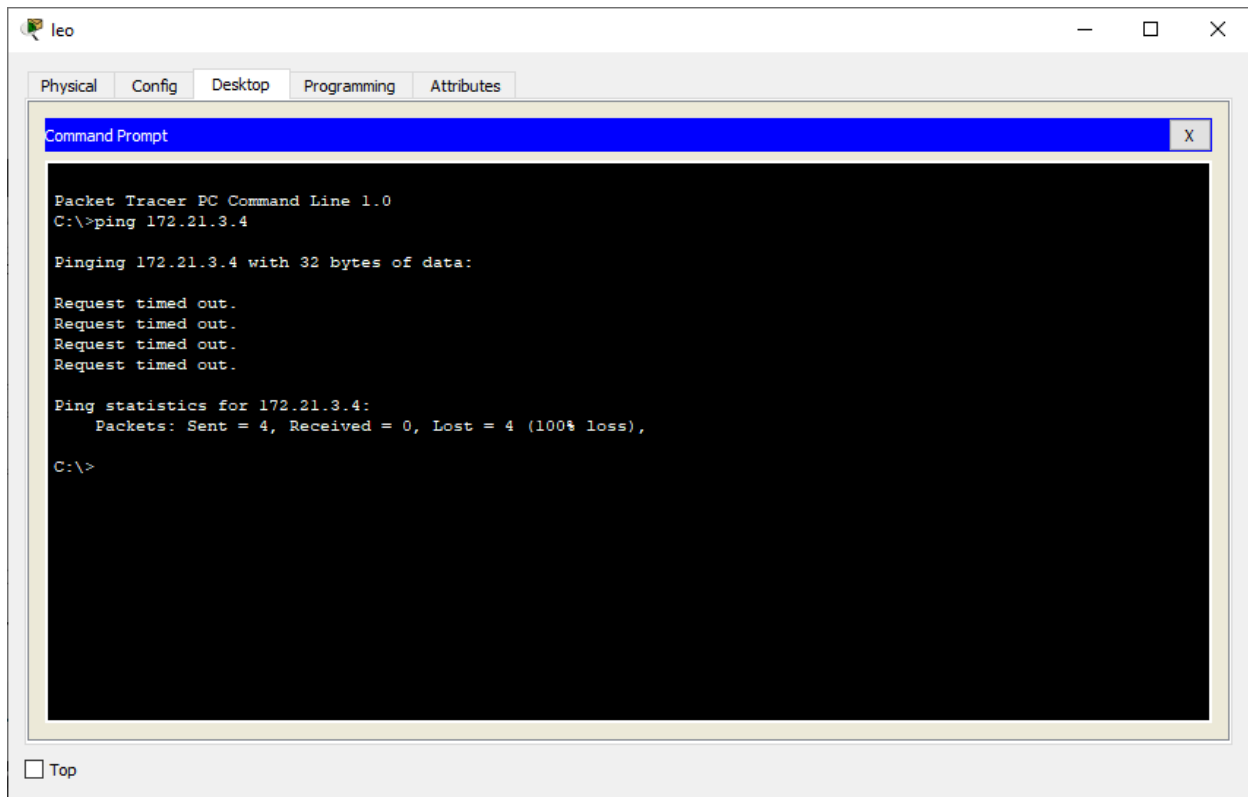
Ctrl+F6 to exit CLI focus
```





Hasil dari Trunking pada FastEthernet 0/1 adalah kita telah mengijinkan VLAN dari SW0 untuk memperluas VLANnya dengan jalur tunggal yaitu pada port 0/1 sebagai jalur utamanya atau bisa dibilang menghubungkan antar device dengan jalur dari port Trunk(Fa0/1).

Ping dari PC LEO ke PC PISCES



```
Packet Tracer PC Command Line 1.0
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:\>
```

Hasilnya RTO karena walaupun sudah di-Trunking kemudian menyampungkan sesama VLAN ID tapi kalau networknya berbeda tidak bisa terhubung.