

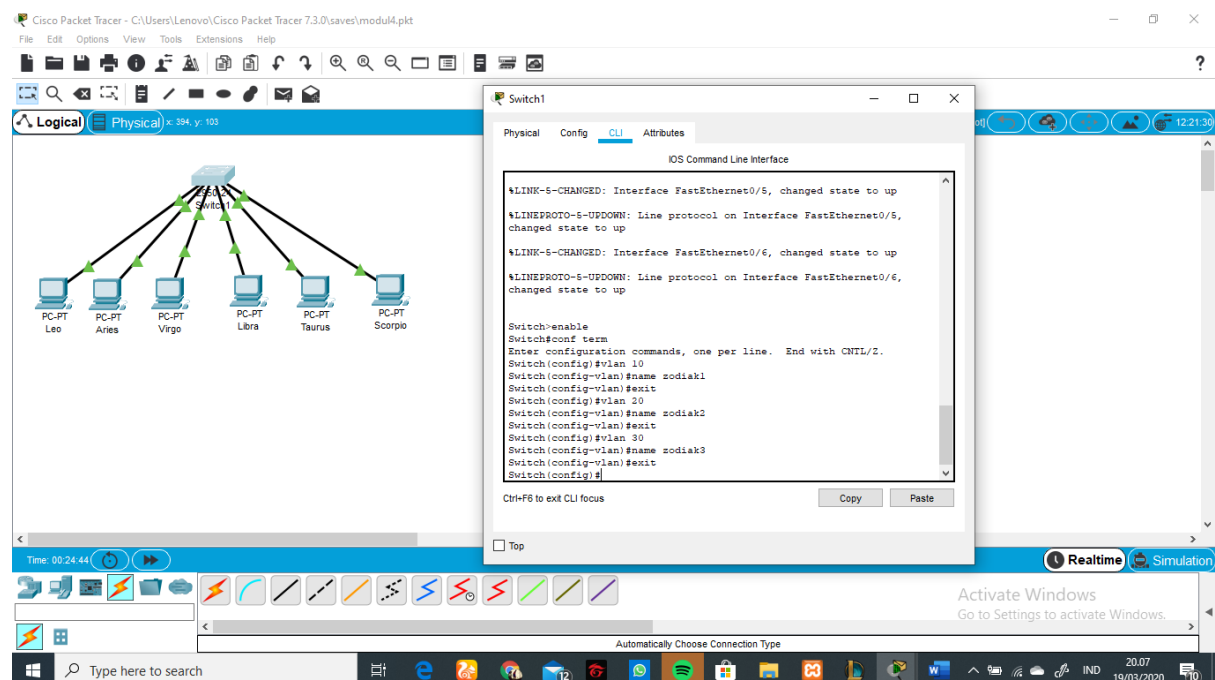
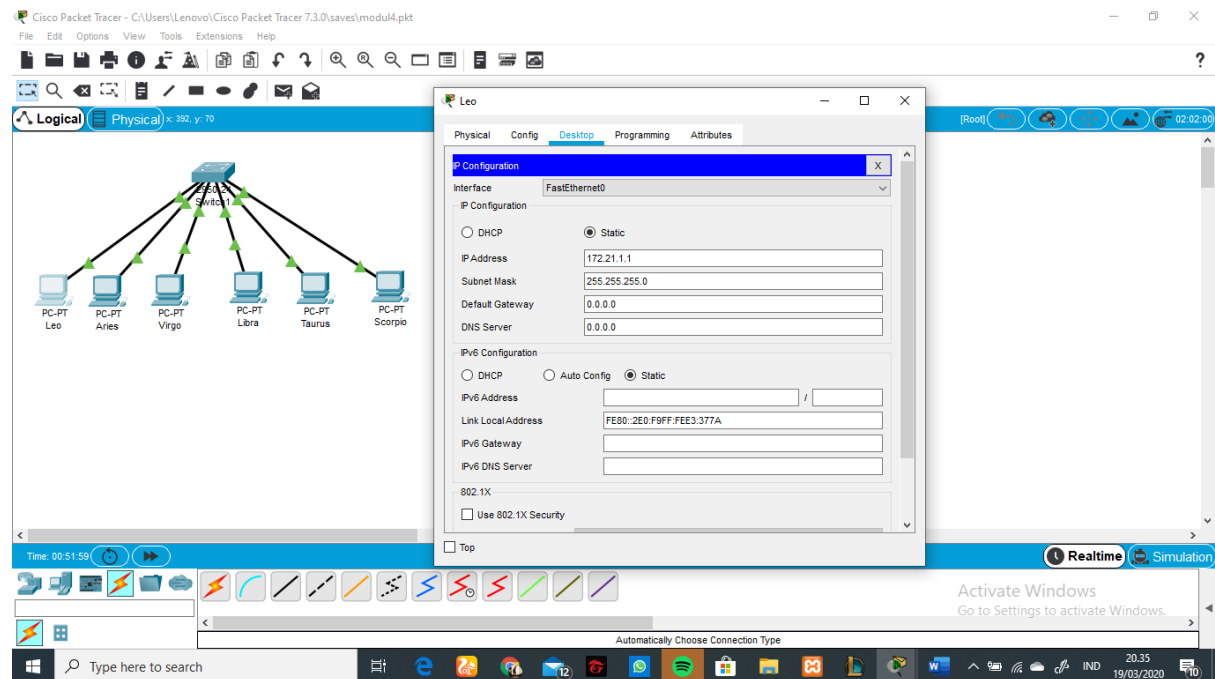
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NIM : L200180059

Kelas : B

Modul 4

Kegiatan 1



Cisco Packet Tracer - C:\Users\Lenovo\Cisco Packet Tracer 7.3.0\saves\modul4.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 1103, y: 353

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config)#interface fastethernet 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface fastethernet 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface fastethernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface fastethernet 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface fastethernet 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#interface fastethernet 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:38:18

Realtime Simulation

Activate Windows
Go to Settings to activate Windows.

Automatically Choose Connection Type

Type here to search

19/03/2020 20:21

Cisco Packet Tracer - C:\Users\Lenovo\Cisco Packet Tracer 7.3.0\saves\modul4.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 969, y: 93

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#
%SYS-S-CONFIG_I: Configured from console by console
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
10 zodiak1	active	Fa0/23, Fa0/24
20 zodiak2	active	Fa0/1, Fa0/4
30 zodiak3	active	Fa0/2, Fa0/5
1002 fddi1-default	active	Fa0/3, Fa0/6
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:39:59

Realtime Simulation

Activate Windows
Go to Settings to activate Windows.

Automatically Choose Connection Type

Type here to search

20/23 19/03/2020 20:21

Cisco Packet Tracer - C:\Users\Lenovo\Cisco Packet Tracer 7.3.0\saves\modul4.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 900 y 270

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
Switch#show vlan id2
% Invalid input detected at '^' marker.
Switch#show vlan id 2
VLAN id 2 not found in current VLAN database
Switch#show vlan id 10
```

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

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Transl Trans2							
10	enet	100010	1500	-	-	-	0

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:41:42

Realtime Simulation

Activate Windows
Go to Settings to activate Windows.

Automatically Choose Connection Type

Type here to search

20:24
19/03/2020

Cisco Packet Tracer - C:\Users\Lenovo\Cisco Packet Tracer 7.3.0\saves\modul4.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 1000 y 440

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
10 zodiak1 active Fa0/1, Fa0/4
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode
Transl Trans2
10 enet 100010 1500 - - - - 0
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

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:42:06

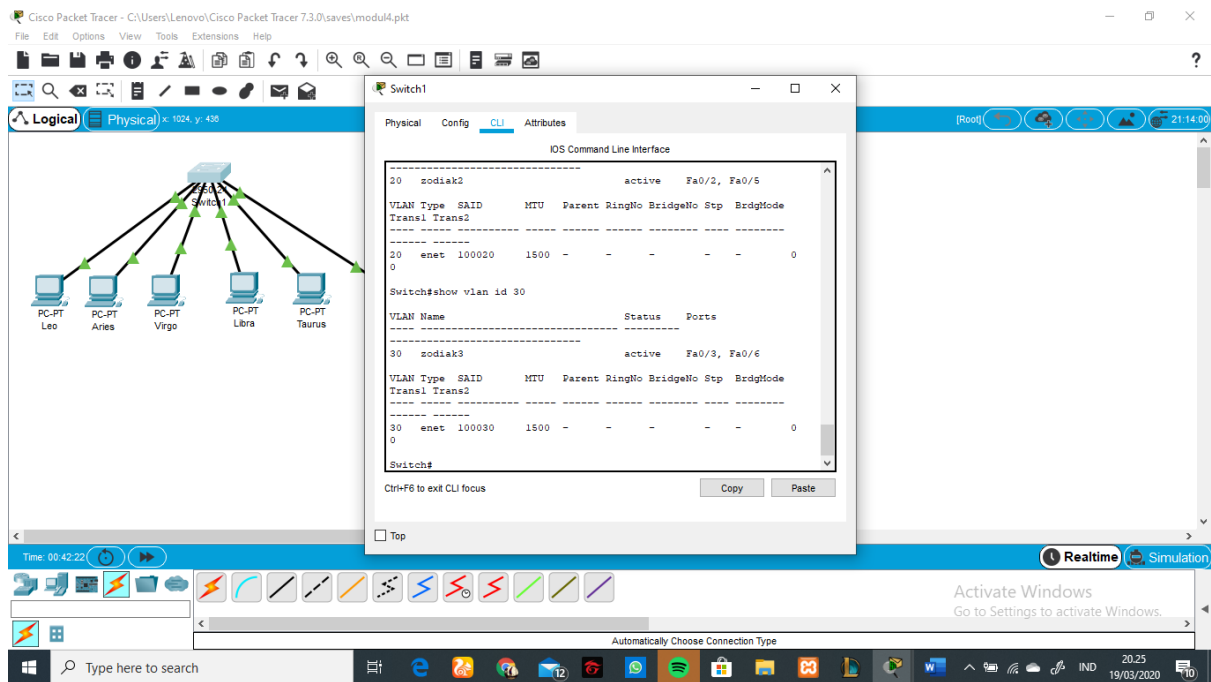
Realtime Simulation

Activate Windows
Go to Settings to activate Windows.

Automatically Choose Connection Type

Type here to search

20:25
19/03/2020



➤ Tugas 6A:

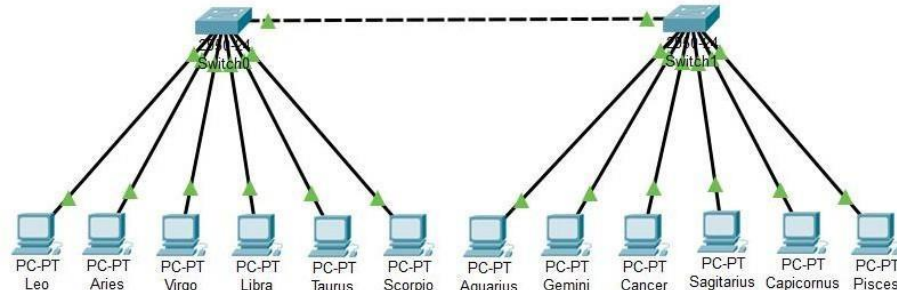
No.	variabel	Vlan id 10	Vlan id 20	Vlan id 30
1.	Nomor vlan	10	20	30
2.	Nama vlan	Zodiak1	Zodiak2	Zodiak3
3.	Port	Fa0/1, Fa0/4	Fa0/2, Fa0/5	Fa0/3, Fa0/6
4.	status	Active	Active	Active

➤ Tugas 6B:

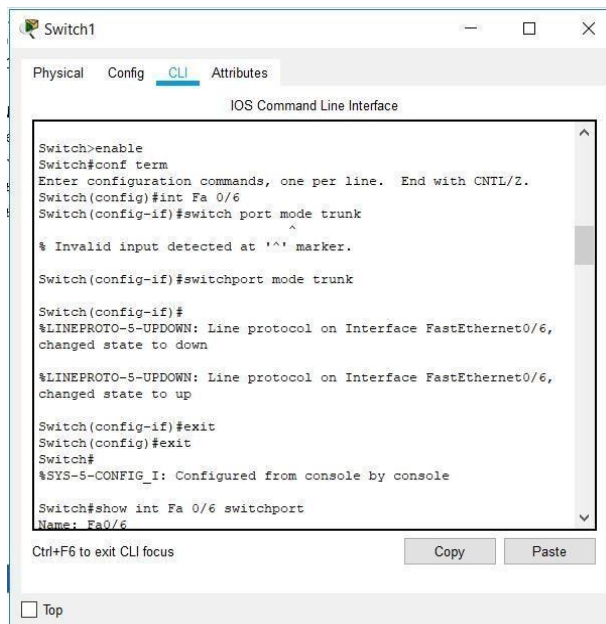
- Vlan 10 dengan nama zodiak1 memiliki port Fa0/1, Fa0/4 yang merupakan anggota dari zodiak1 yaitu Leo dan Libra, dan berstatus acitve
- Vlan 20 dengan nama zodiak2 memiliki port Fa0/2, Fa0/5 yang merupakan anggota dari zodiak2 yaitu aries dan taurus, dan berstatus acitve
- Vlan 30 dengan nama zodiak3 memiliki port Fa0/3, Fa0/6 yang merupakan anggota dari zodiak3 yaitu virgo dan scorpio, dan berstatus acitve

Kegiatan 2

1. Menggunakan cisco packet tracer buat topologi berikut :

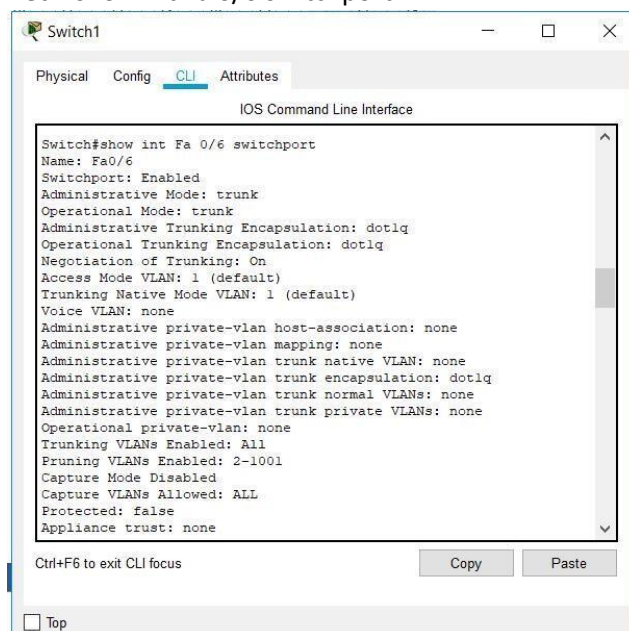


2. Beri nama masing-masing perangkat dengan SW1(switch 1), Leo(PC0), Aries(PC1), Virgo(PC2), Libra(PC3), Taurus(PC4), dan Scorpio(PC5) untuk segmen switch 1.
3. Beri nama masing-masing perangkat dengan SW2(switch 2), Aquarius(PC6), Gemini(PC7), Cancer(PC8), Sagitarius(PC9), Capricornus(PC10), dan Pisces(PC11) untuk segmen switch 2.
4. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini :
 - 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 :
 - Switch(config)#interface Fa 0/6
 - Switch(config-if)#switchport mode trunk
 - Switch(config-if)#exit

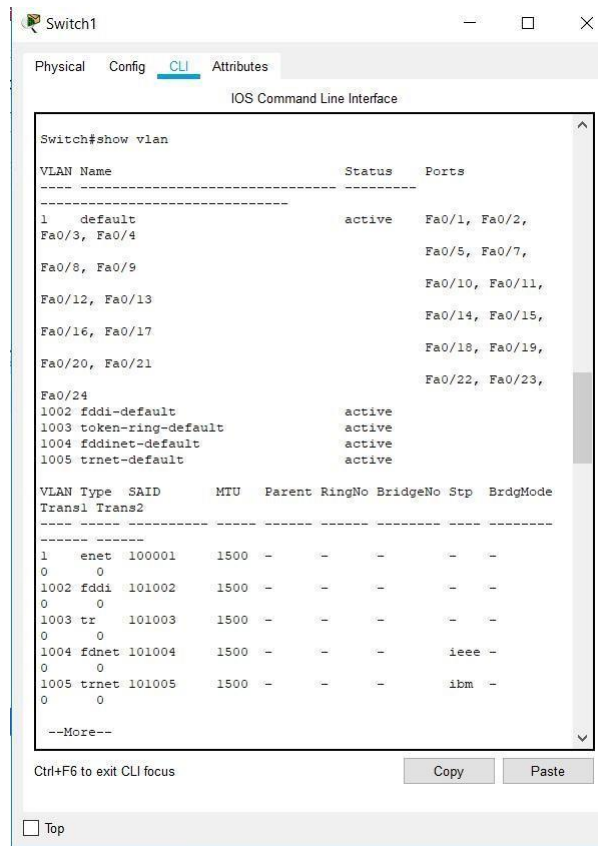


6. Melihat konfigurasi :

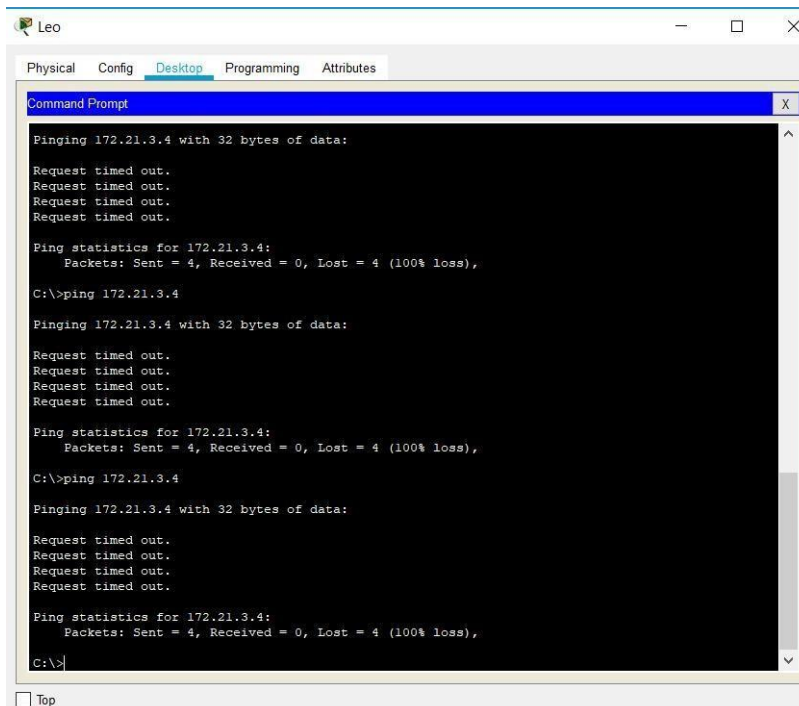
- Ketik show int Fa 0/6 switchport



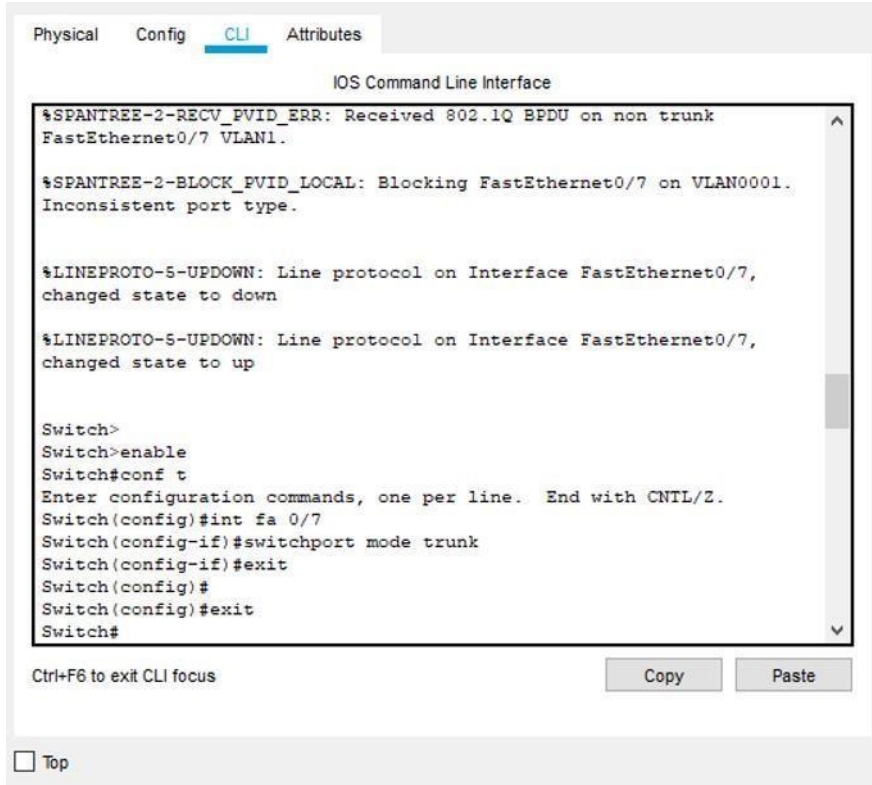
- Ketik show vlan



7. Lakukan PC Loke PC Pisces



8. Konfigurasi VLAN trunking pada switch 2



The screenshot shows a network switch's CLI interface with the 'CLI' tab selected. The interface displays several system messages and configuration commands. The messages include warnings about receiving BPDU on a non-trunk port and blocking the port due to inconsistent port type. The configuration commands show the user enabling the switch, entering configuration mode, and setting FastEthernet0/7 to trunk mode. The interface also includes a 'Copy' button, a 'Paste' button, and a 'Top' link.

```
Physical Config CLI Attributes
IOS Command Line Interface

%SPANTRIE-2-RECV_PVID_ERR: Received 802.1Q BPDU on non trunk
FastEthernet0/7 VLAN1.

%SPANTRIE-2-BLOCK_PVID_LOCAL: Blocking FastEthernet0/7 on VLAN0001.
Inconsistent port type.

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to up

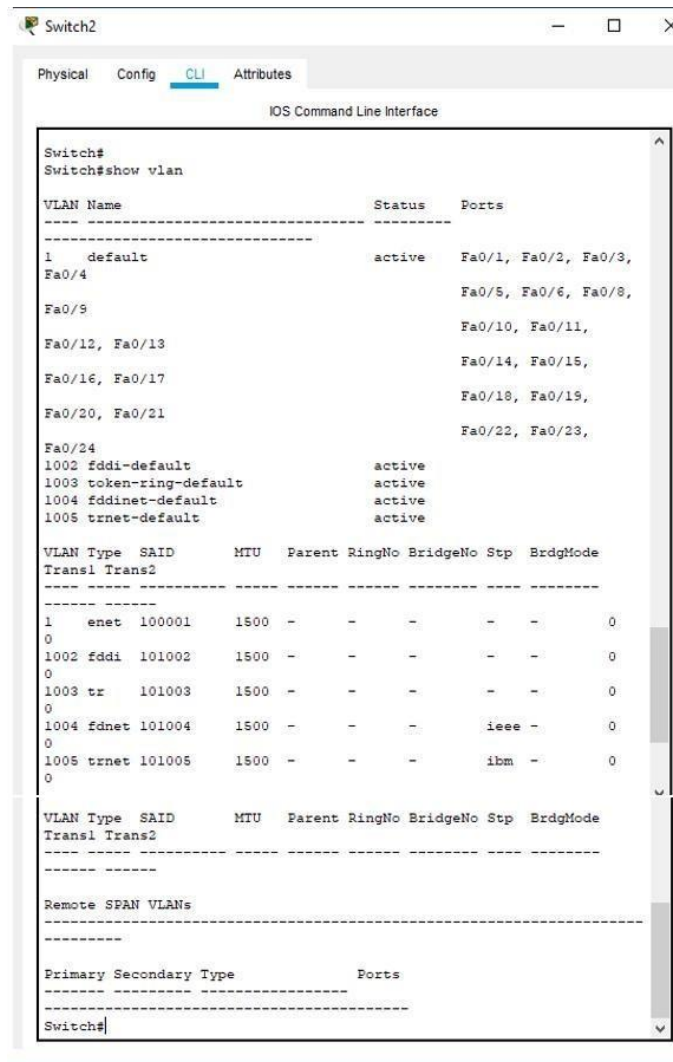
Switch>
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa 0/7
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#
Switch(config)#exit
Switch#
```

Ctrl+F6 to exit CLI focus

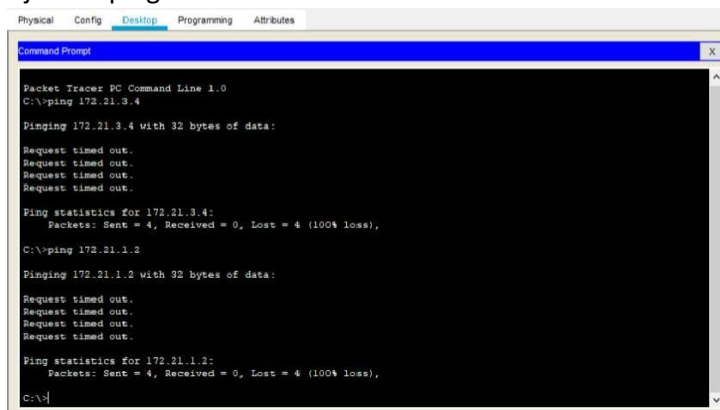
Copy Paste

☐ Top

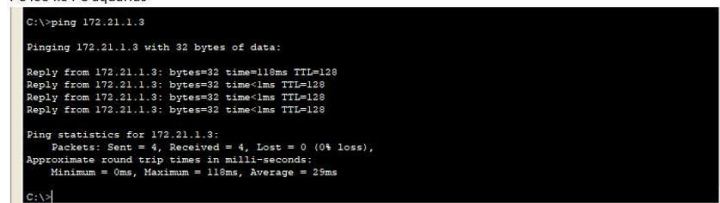
9. Melihat hasil konfigurasi trunking pada switch 2



10. Uji coba ping



PC leo ke PC aquarius

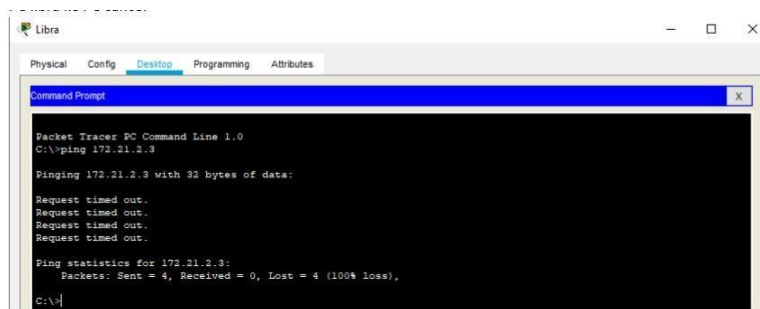


```
C:\>ping 172.21.3.4

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:\>
```



```
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=1ms TTL=128
Reply from 172.21.1.1: bytes=32 time<1ms TTL=128
Reply from 172.21.1.1: bytes=32 time<1ms TTL=128
Reply from 172.21.1.1: bytes=32 time<1ms 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 = 1ms, Average = 0ms
C:\>
```

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