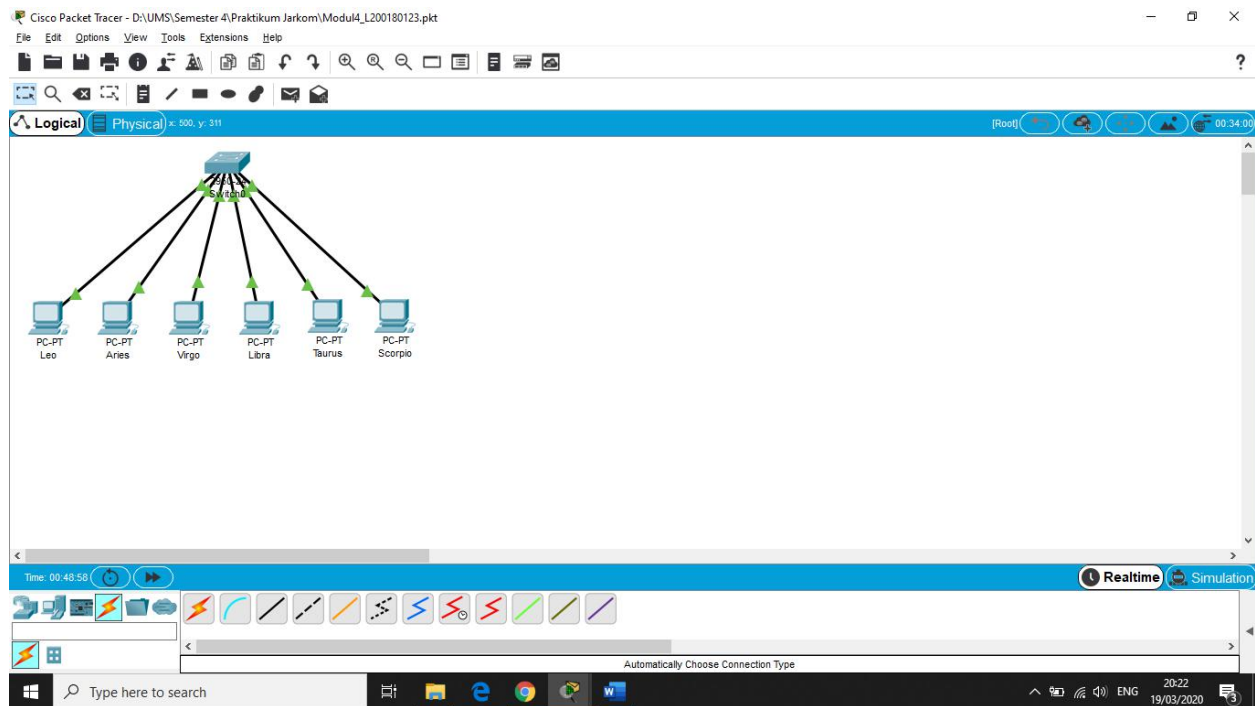


Ilyas Raihan Nadhif
L200180119
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Modul 4

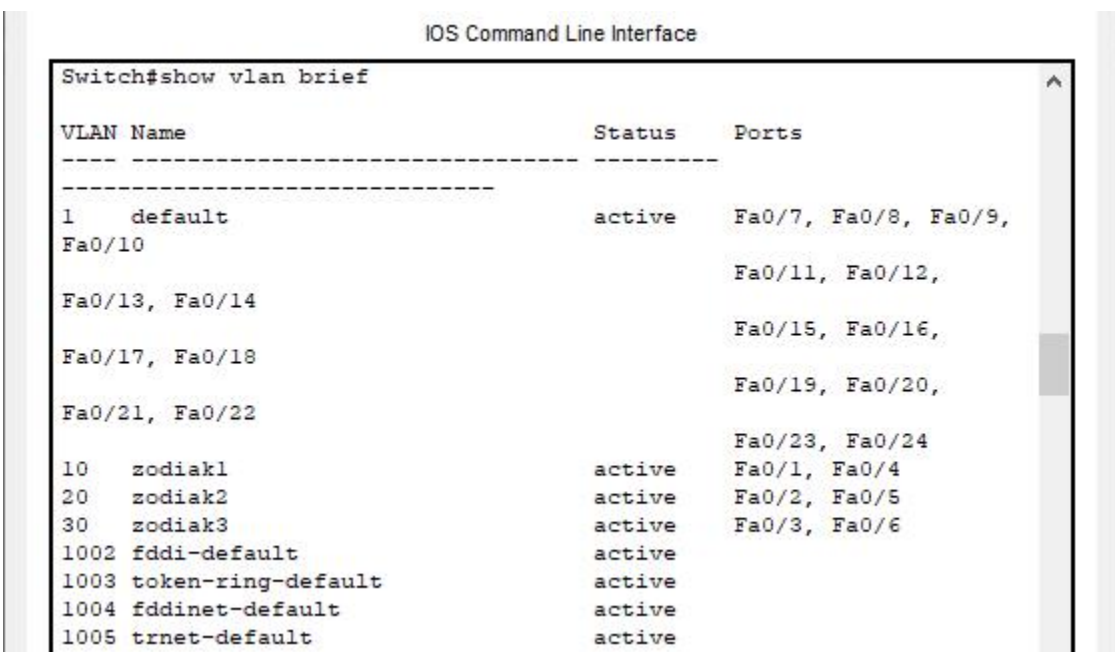
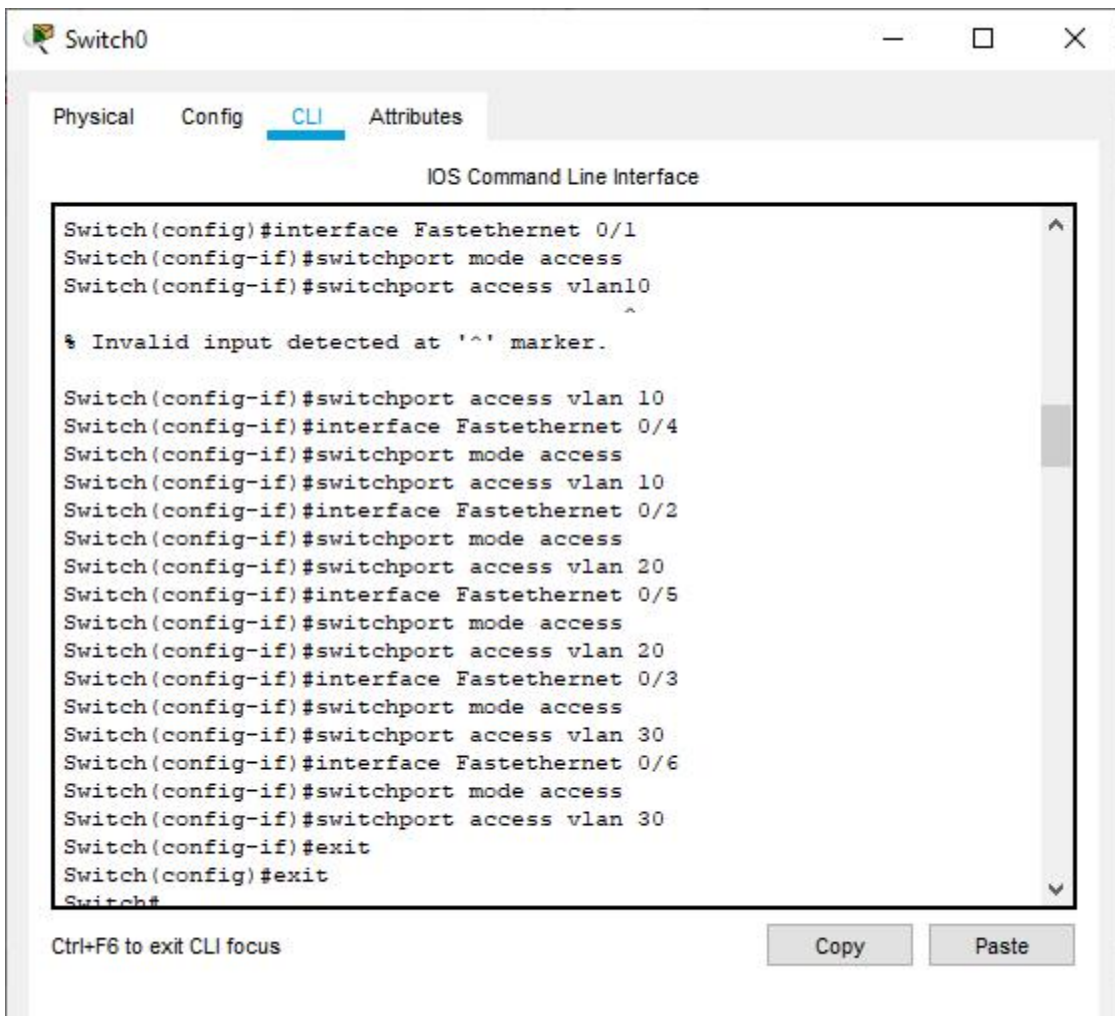
Kegiatan 1

Topologi 1



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

Switch>enable
Switch#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
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
Switch(config)#interface Fastethernet 0/1;
```



1. VLAN 10

```
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
Trans1 Trans2
-----
10    enet  100010      1500    -      -      -      -      -      0
0
```

No.	Variabel	Nilai
1	Nomor VLAN	10
2	Nama VLAN	zodiak1
3	Port	Fa0/1, Fa0/4
4	Status	active

Membuat VLAN dengan nomor id 10 bernama zodiak1 dan memiliki port Fa0/1, Fa0/4 yang merupakan anggota dari zodiak1 yaitu Leo dan Libra, berstatus active.

2. VLAN 20

```
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
Trans1 Trans2
-----
20    enet  100020      1500    -      -      -      -      -      0
0
```

No.	Variabel	Nilai
1	Nomor VLAN	20
2	Nama VLAN	zodiak2
3	Port	Fa0/2, Fa0/5
4	Status	active

Membuat VLAN dengan nomor id 20 bernama zodiak2 dan memiliki port Fa0/2, Fa0/5 yang merupakan anggota dari zodiak2 yaitu Aries dan Taurus, berstatus active.

3. VLAN 30

```
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
Trans1 Trans2
-----
30    enet  100030   1500   -     -     -   -     -     0
0

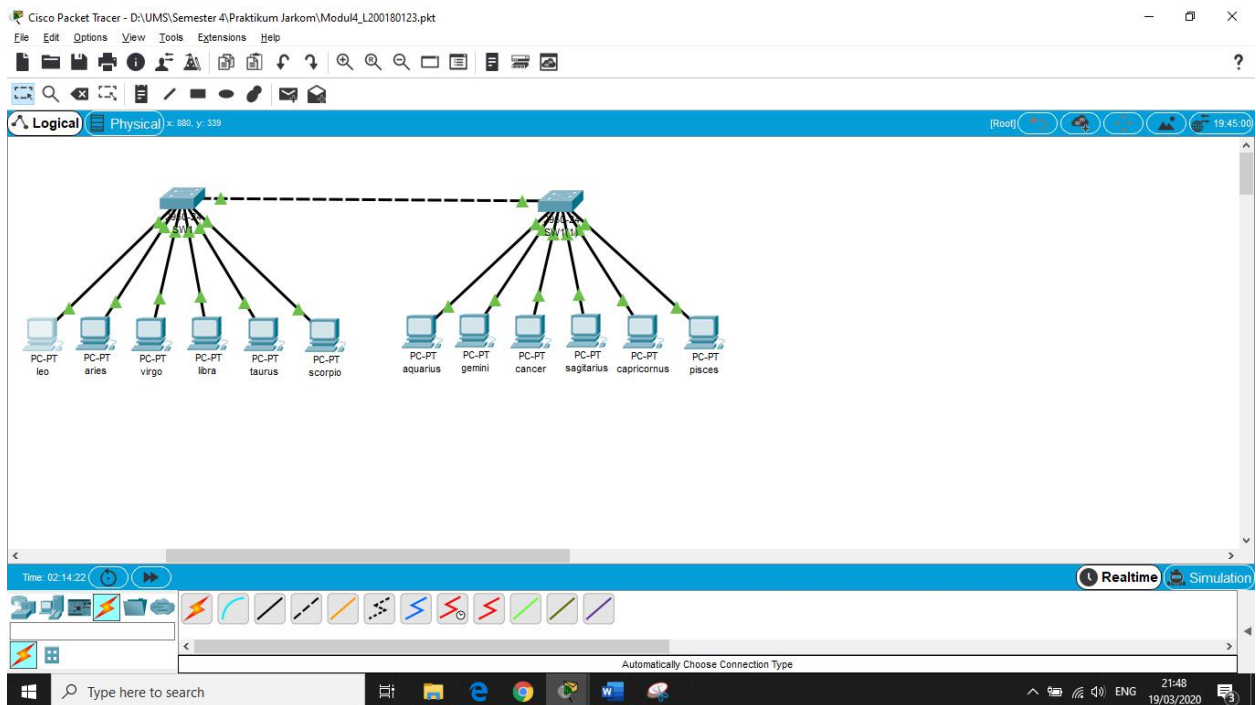
```

No.	Variabel	Nilai
1	Nomor VLAN	30
2	Nama VLAN	zodiak3
3	Port	Fa0/3, Fa0/6
4	Status	active

Membuat VLAN dengan nomor id 30 bernama zodiak3 dan memiliki port Fa0/3, Fa0/6 yang merupakan anggota dari zodiak3 yaitu Virgo dan Scorpio, berstatus active.

Kegiatan 2

Topologi 2



SW1

Physical

Config

CLI

Attributes

IOS Command Line Interface

Switch#show int trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1

Port

Vlans allowed on trunk

Fa0/1

1-1005

Port

Vlans allowed and active in management domain

Fa0/1

1,10,20,30

Port

Vlans in spanning tree forwarding state and not pruned

Fa0/1

1,10,20,30

Switch#show interface FastEthernet 0/1 switchport

Name: Fa0/1

Switchport: Enabled

Administrative Mode: trunk

Operational Mode: trunk

Administrative Trunking Encapsulation: dot1q

Operational Trunking Encapsulation: dot1q

Negotiation of Trunking: Off

Access Mode VLAN: 10 (zodiaki)

Trunking Native Mode VLAN: 1 (default)

Voice VLAN: none

Administrative private-vlan host-association: none

Administrative private-vlan mapping: none

Administrative private-vlan trunk native VLAN: none

Administrative private-vlan trunk encapsulation: dot1q

Administrative private-vlan trunk normal VLANs: none

Administrative private-vlan trunk private VLANs: none

Operational private-vlan: none

Trunking VLANs Enabled: All

Pruning VLANs Enabled: 2-1001

Capture Mode Disabled

Capture VLANs Allowed: ALL

Protected: false

--More--

Ctrl+F6 to exit CLI focus

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Paste

☐ Top

Windows

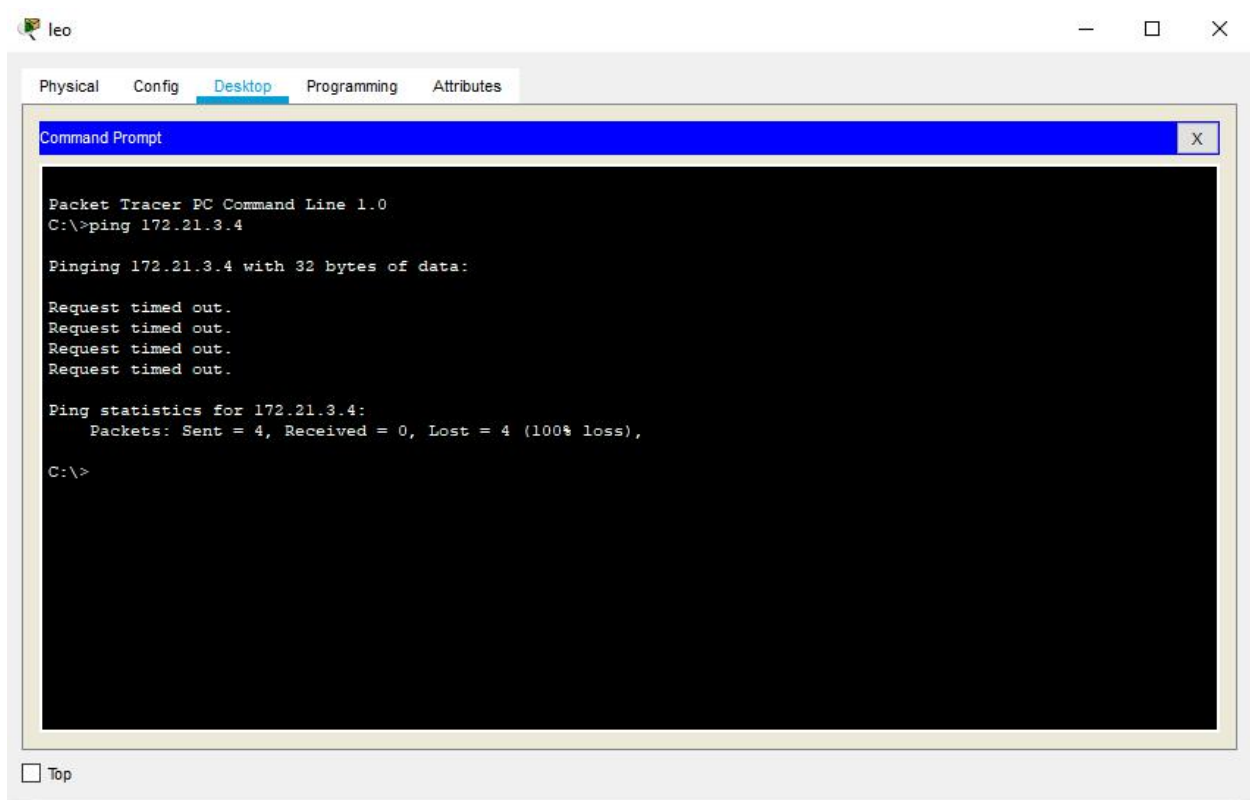
Type here to search

21:49

19/03/2020

TUGAS

Tugas 7.A



Tugas 8.A

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

```
Switch>enable
Switch#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa 0/1
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch(config-if)#exit
Switch(config)#exit
Switch#
```



```
Switch#show vlan
```

VLAN	Name	Status	Ports
1	default	active	Fa0/2, Fa0/3, Fa0/4, Fa0/5 Fa0/6, 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
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Transl	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

```
--More-- |
```

Tugas 10.A

Pada langkah ini port-port fast ethernet belum terkonfigurasi kedalam VLAN, dan VLANnya belum dibuat.

The screenshot shows a network switch configuration interface with tabs for Physical, Config, CU, and Attributes. The main window displays the IOS Command Line Interface with the following commands and output:

```
Switch(config)#vlan 10
Switch(config-if)#interface FastEthernet 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface FastEthernet 0/5
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)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan
```

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, Fa0/2
20	zodiak2	active	Fa0/3, Fa0/4
30	zodiak3	active	Fa0/5, Fa0/6
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Transl	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
30	enet	100030	1500	-	-	-	-	-	0	0

```
--More-- |
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Type here to search

ENG 22:48 19/03/2020

Ping PC leo ke PC aries

```
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>|
```

RTO karena tidak berada dalam satu VLAN walaupun network accessnya sama.

Ping PC leo ke PC aquarius

```
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=3ms 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:
        Minimum = 0ms, Maximum = 3ms, Average = 0ms
```

Reply karena berada dalam satu VLAN yang sama dan network accessnya sama.

Ping PC leo ke PC pisces

```
C:\>ping 172.21.3.2

Pinging 172.21.3.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.3.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

RTO karena berada dalam VLAN berbeda dan network accessnya juga berbeda.

Ping PC libra ke PC cancer


```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.2.3

Pinging 172.21.2.3 with 32 bytes of data:

Request timed 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),
```

RTO karena tidak berada dalam satu VLAN walaupun network accessnya sama.

Ping PC libra ke PC leo

```
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

RTO karena tidak berada dalam satu VLAN walaupun network accessnya sama.

Tugas 12.A

Hasilnya tetap RTO, karena 2 PC tersebut memiliki network access yang berbeda. Walaupun sudah di-trunking dan menyambungkan VLAN ID tetap tidak bisa terhubung.