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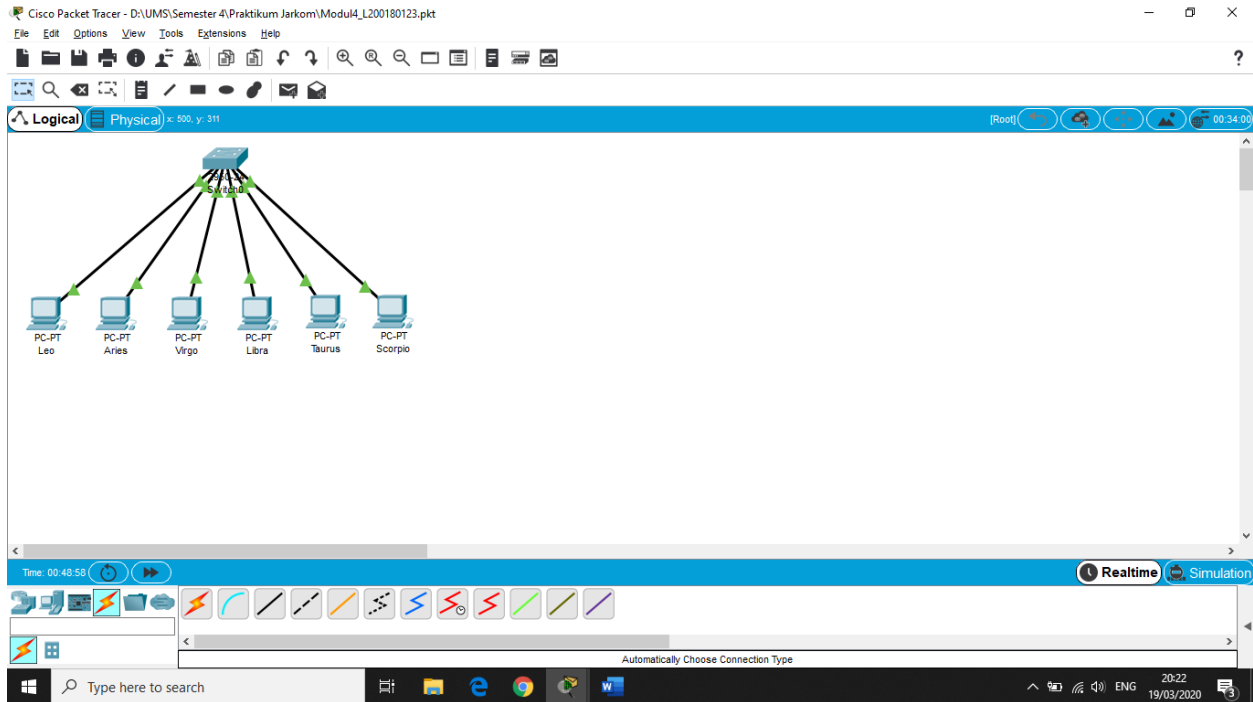
NIM : L200180123

Kelas : E

## Praktikum Jaringan Komputer

### 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;
```

Switch0

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 vlan10
Switch(config-if)#switchport access vlan 10
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)#interface Fastethernet 0/2
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 20
Switch(config-if)#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)#exit
Switch#
```

Ctrl+F6 to exit CLI focus

Copy Paste

IOS Command Line Interface

```
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	

## 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

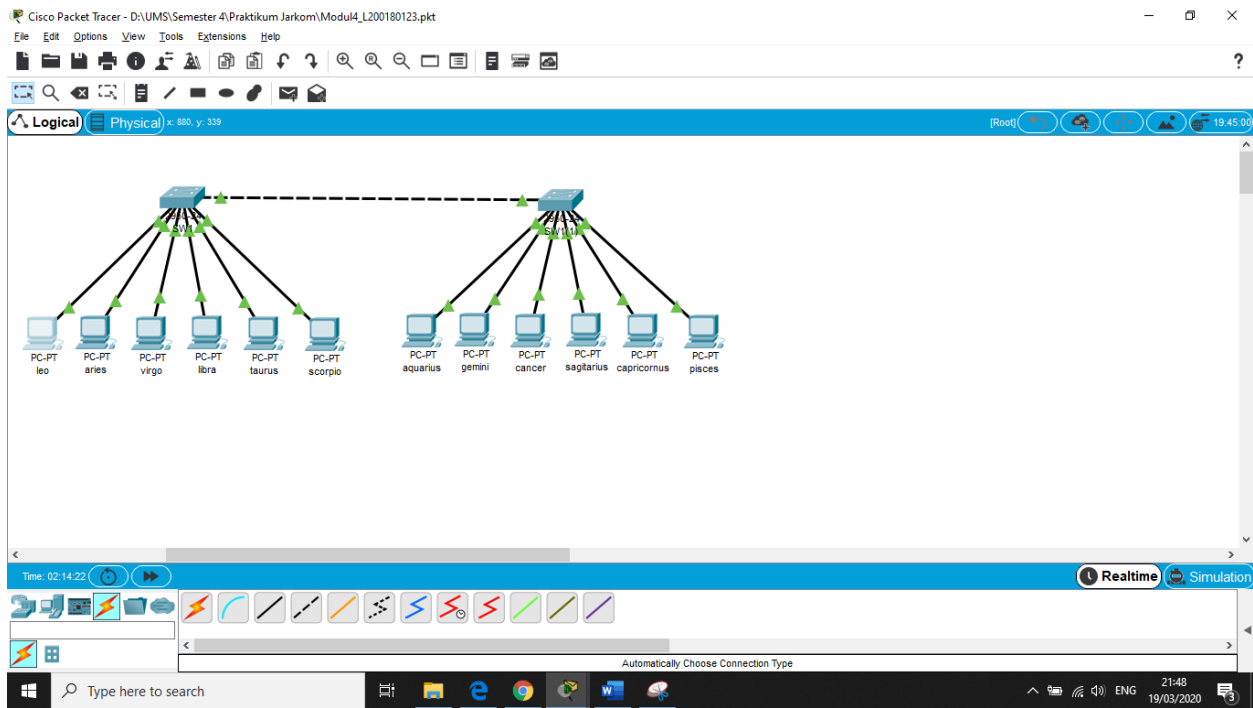
VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp    BrdgMode
Trans1 Trans2
-----
30    enet    100030   1500   -     -     -     -     -     0
0

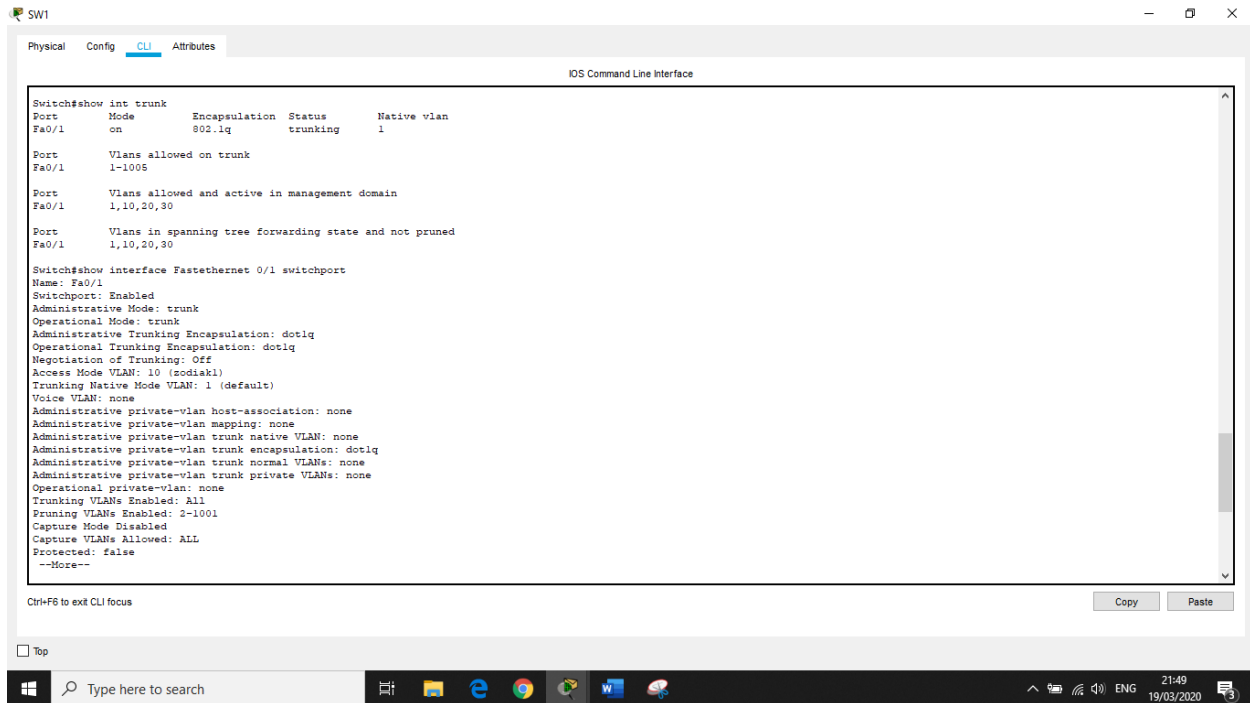
```

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

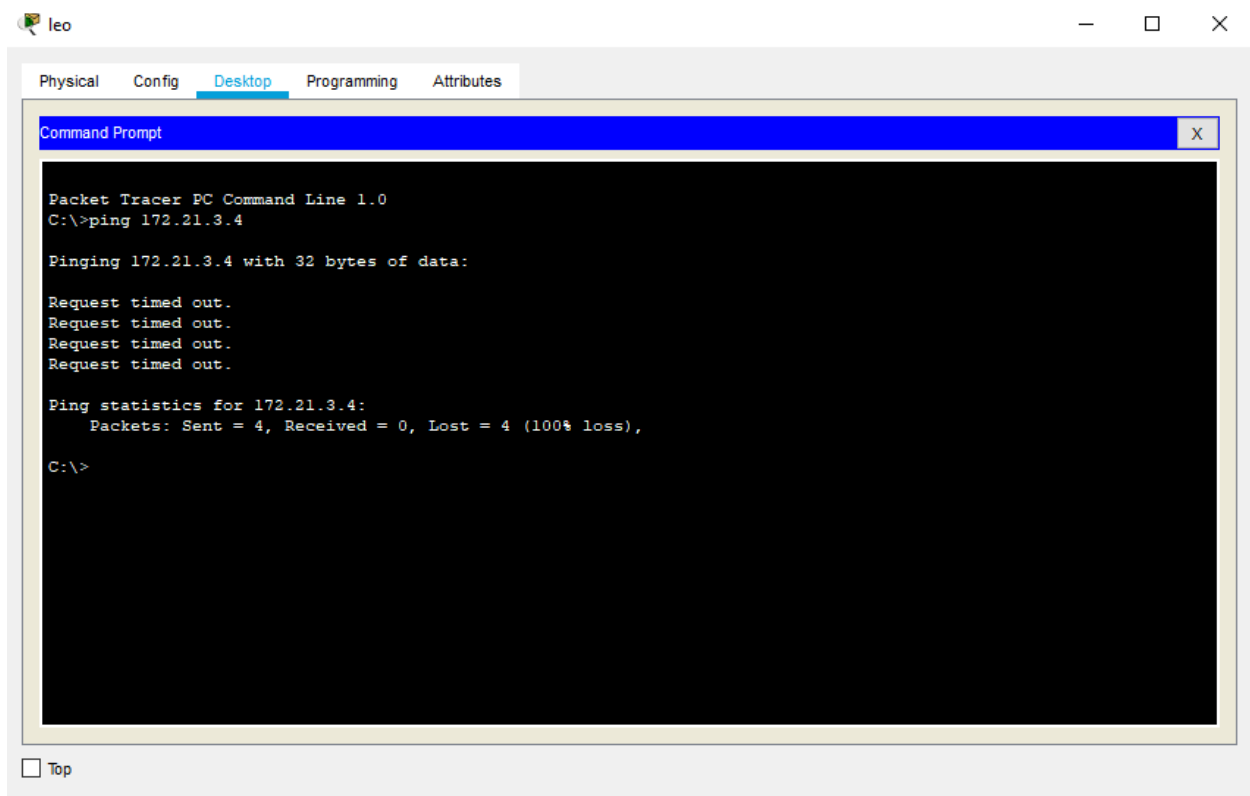
Membuat VLAN dengan nomor id 30 bernama zodiak3 dan memiliki port Fa0/3, Fa0/6 yang merupakan anggota dari zodiak3 yaitu Virgo dan Scorpio, berstatus active.

## Kegiatan 2. Topologi 2





## Tugas 7A.



## Tugas 8A.

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

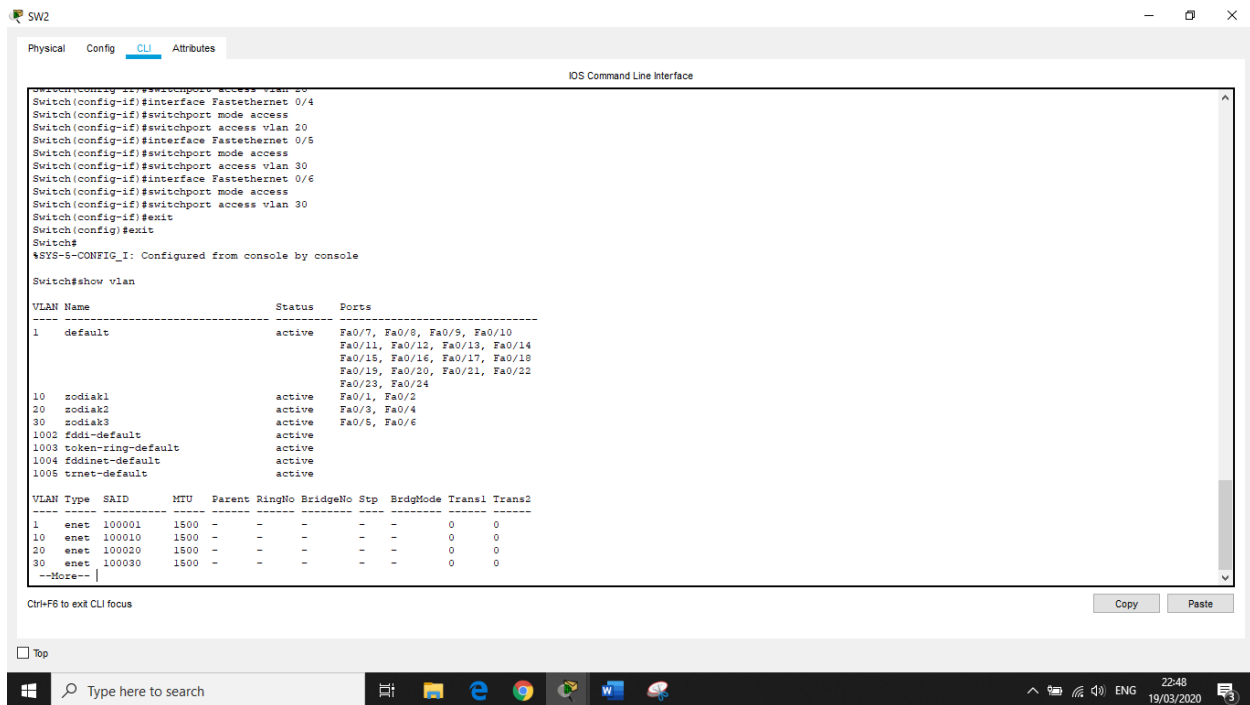
VLAN Name                Status    Ports
-----
1    default                active    Fa0/2, Fa0/3, Fa0/4, Fa0/5
                                           Fa0/6, Fa0/7, Fa0/8, Fa0/9
                                           Fa0/10, Fa0/11, Fa0/12, Fa0/13
                                           Fa0/14, 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

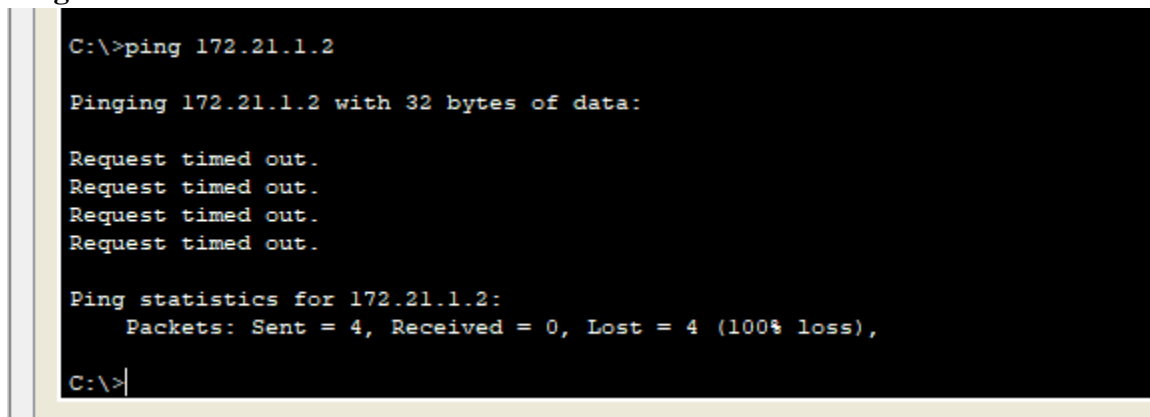
--More-- |
```

## Tugas 10A.

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

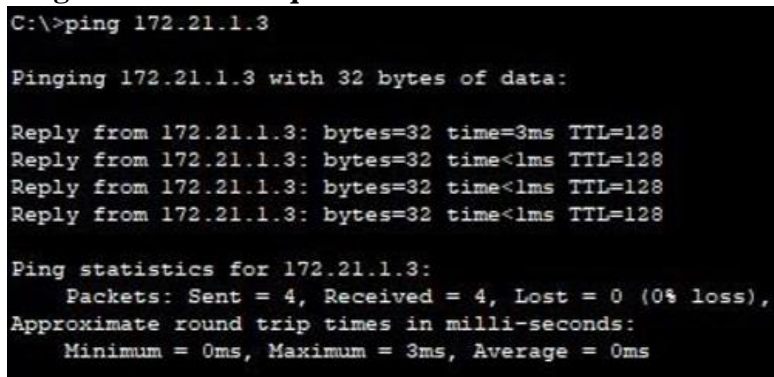


## Ping PC leo ke PC aries



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

## Ping PC leo ke PC aquarius



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 12A.**

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