

Nama : Maulana Alhif Ikhsan

NIM : L200180120

Kelas : C

Praktikum Jaringan Komputer

Modul 4

Kegiatan 1. Topologi 1

Cisco Packet Tracer - C:\Users\alhihi\Downloads\Modul4_L200180123.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 933, y: 220

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINK-6-CHANGED: Interface FastEthernet0/5, changed state to up
%LINEPROTO-6-UPDOWN: Line protocol on Interface FastEthernet0/5,
changed state to up
%LINK-6-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-6-UPDOWN: Line protocol on Interface FastEthernet0/6,
changed state to up

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name sodiak1
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name sodiak2
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#name sodiak3
Switch(config-vlan)#exit
Switch(config)#interface FastEthernet0/1;
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 09:29:36

Automatically Choose Connection Type

ENG 06:00

Cisco Packet Tracer - C:\Users\alhihi\Downloads\Modul4_L200180123.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 937, y: 49

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
% Invalid input detected at '^' marker.
Switch(config)#switchport mode access
% Invalid input detected at '^' marker.

Switch(config)#interface FastEthernet0/1
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)#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
```

Ctrl+F6 to exit CLI focus

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Top

Time: 09:33:47

Automatically Choose Connection Type

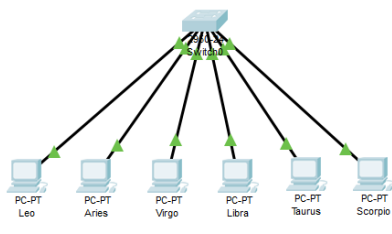
Realtime Simulation

ENG 06:05

Cisco Packet Tracer - C:\Users\alhihi\Downloads\Modul4_L200180123.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 814, y: 81



Switch0

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 fddi-default	active	Fa0/3, Fa0/6
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 09:34:23

Realtime Simulation

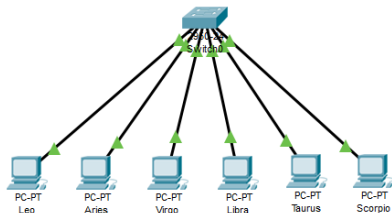
Automatically Choose Connection Type

Windows taskbar: ENG 06:05

Cisco Packet Tracer - C:\Users\alhihi\Downloads\Modul4_L200180123.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 385, y: 458



Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Fa0/21, Fa0/22
10 zodiak1
20 zodiak2
30 zodiak3
1002 fddi-default
1003 token-ring-default
1004 fddinet-default
1005 trnet-default
Switch#show vlan id 10
```

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

```
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdMode
Trans1 Trans2
10 enet 100010 1500 - - - - 0
Switch#
```

Ctrl+F6 to exit CLI focus

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Time: 09:35:21

Realtime Simulation

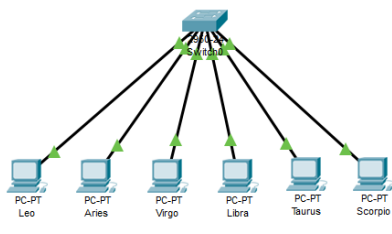
Automatically Choose Connection Type

Windows taskbar: ENG 06:06

Cisco Packet Tracer - C:\Users\alhihi\Downloads\Modul4_L200180123.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 380, y: 458



Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
10 zodiak1 active Fa0/1, Fa0/4
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode
Trans1 Trans2
-----
10 enet 100010 1500 - - - - - 0
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
Trans1 Trans2
-----
20 enet 100020 1500 - - - - - 0
0

Switch#
```

Ctrl+F8 to exit CLI focus

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Top

Time: 09:35:30

Realtime Simulation

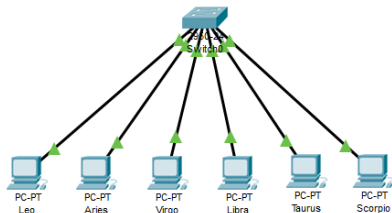
Automatically Choose Connection Type

ENG 06:06

Cisco Packet Tracer - C:\Users\alhihi\Downloads\Modul4_L200180123.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 539, y: 420



Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
20 zodiak2 active Fa0/2, Fa0/5
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode
Trans1 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
Trans1 Trans2
-----
30 enet 100030 1500 - - - - - 0
0

Switch#
```

Ctrl+F8 to exit CLI focus

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Top

Time: 09:35:52

Realtime Simulation

Automatically Choose Connection Type

ENG 06:07

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
```

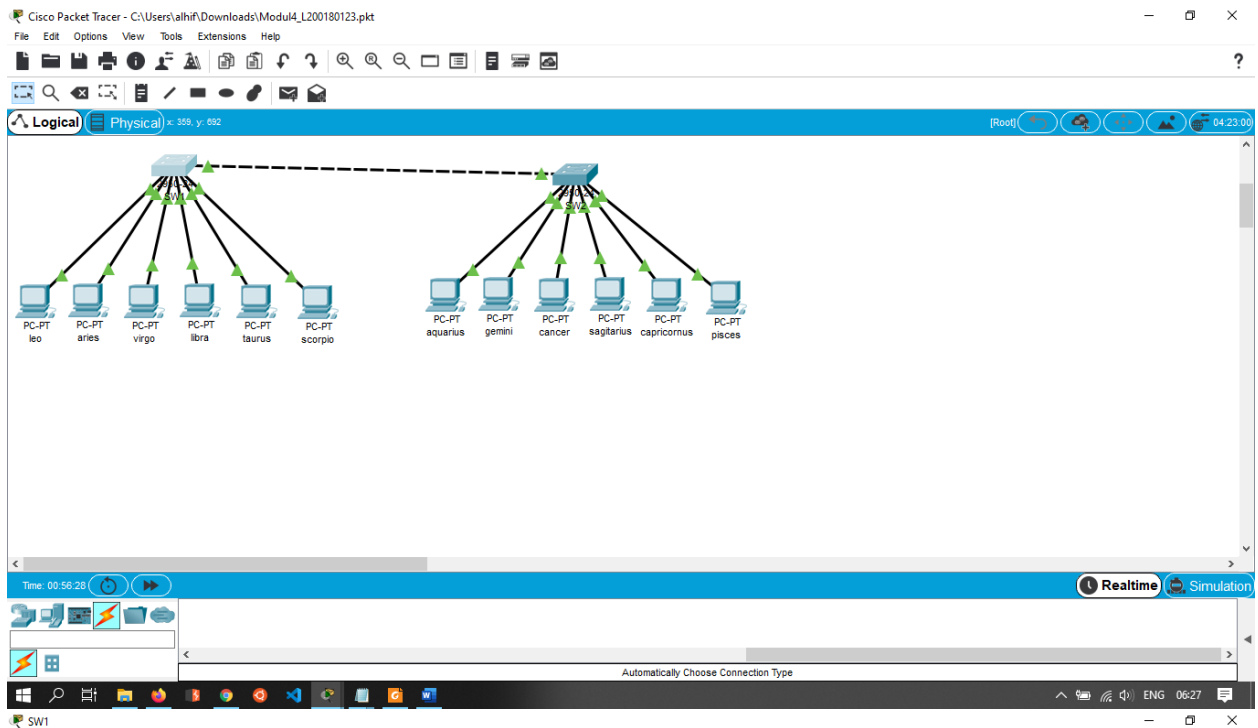
```
VLAN Name                Status    Ports
-----
30    zodiak3                active    Fa0/3, Fa0/6

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



Physical Config CLI Attributes

IOS Command Line Interface

```
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 fa0/1
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 10
Switch(config-if)#int fa0/4
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 20
Switch(config-if)#int fa0/5
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 30
Switch(config-if)#int fa0/6
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 30
Switch(config-if)#int fa0/24
Switch(config-if)#switchport mode trunk
Switch(config-if)#ex
Switch(config)#show int fa0/24

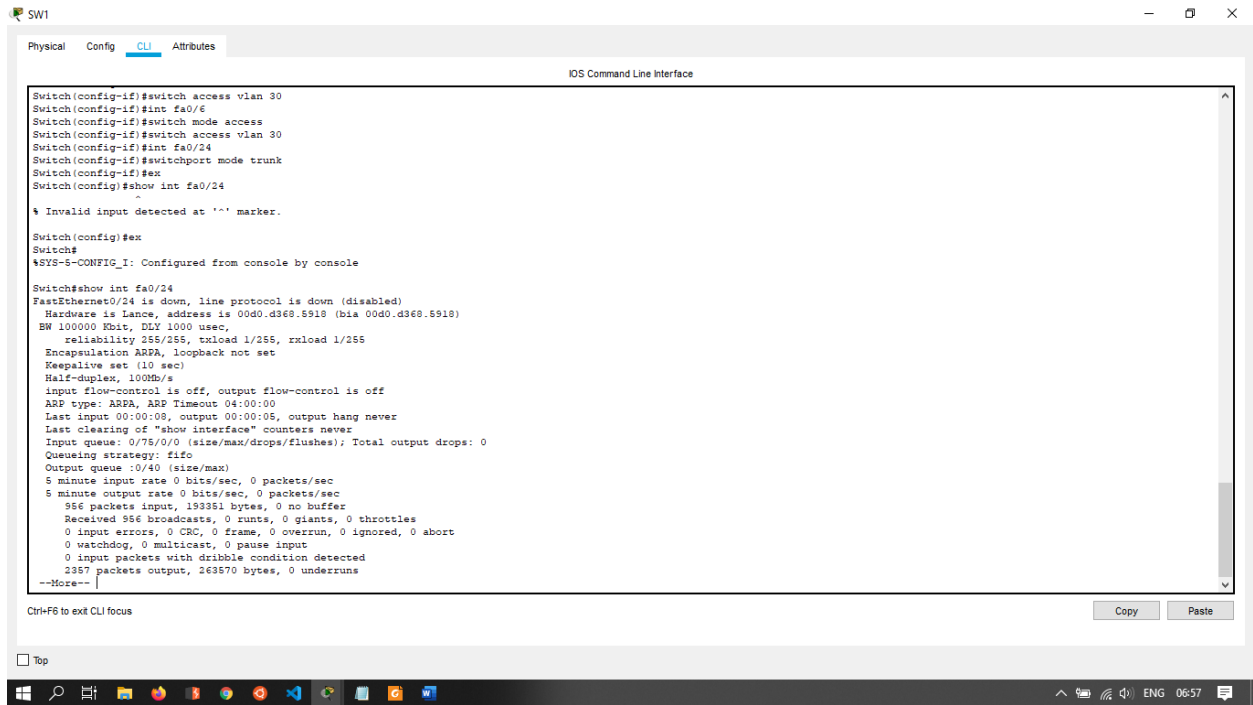
! Invalid input detected at '^' marker.
```

Ctrl+F6 to exit CLI focus

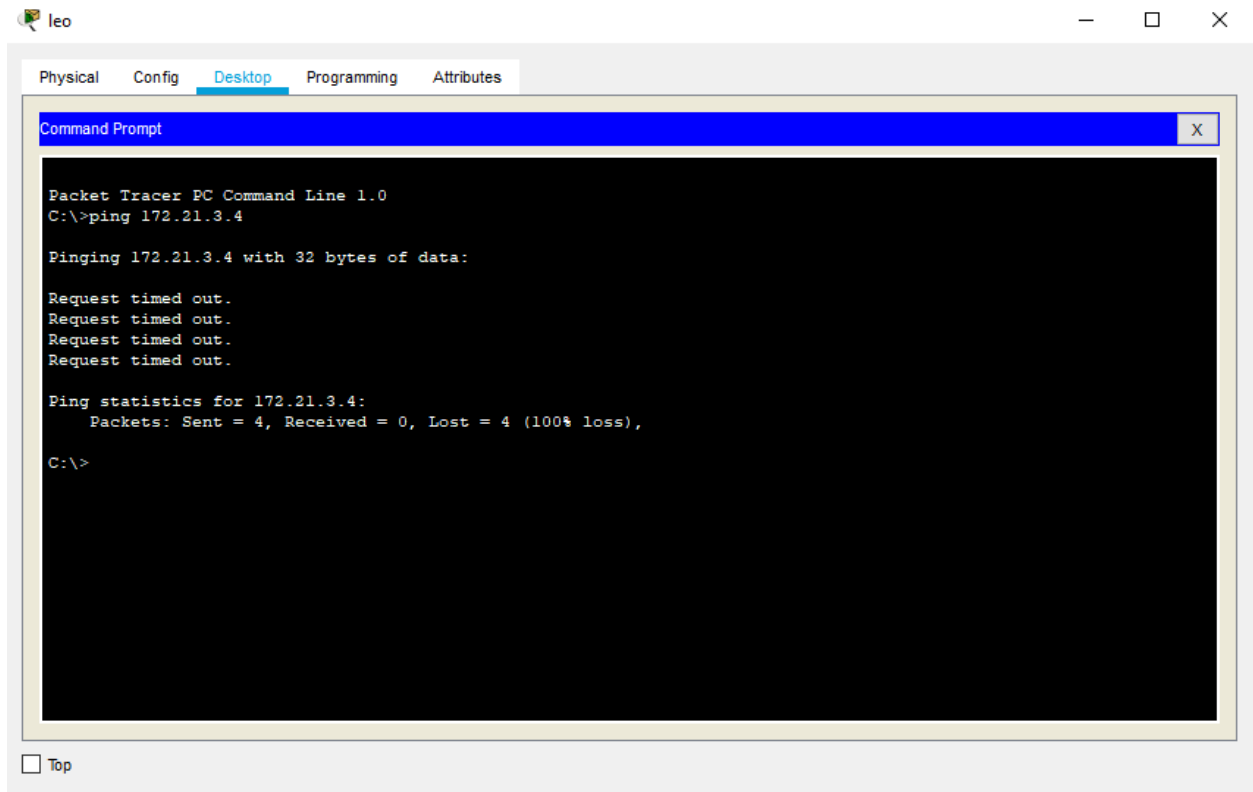
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Top

ENG 06:56



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

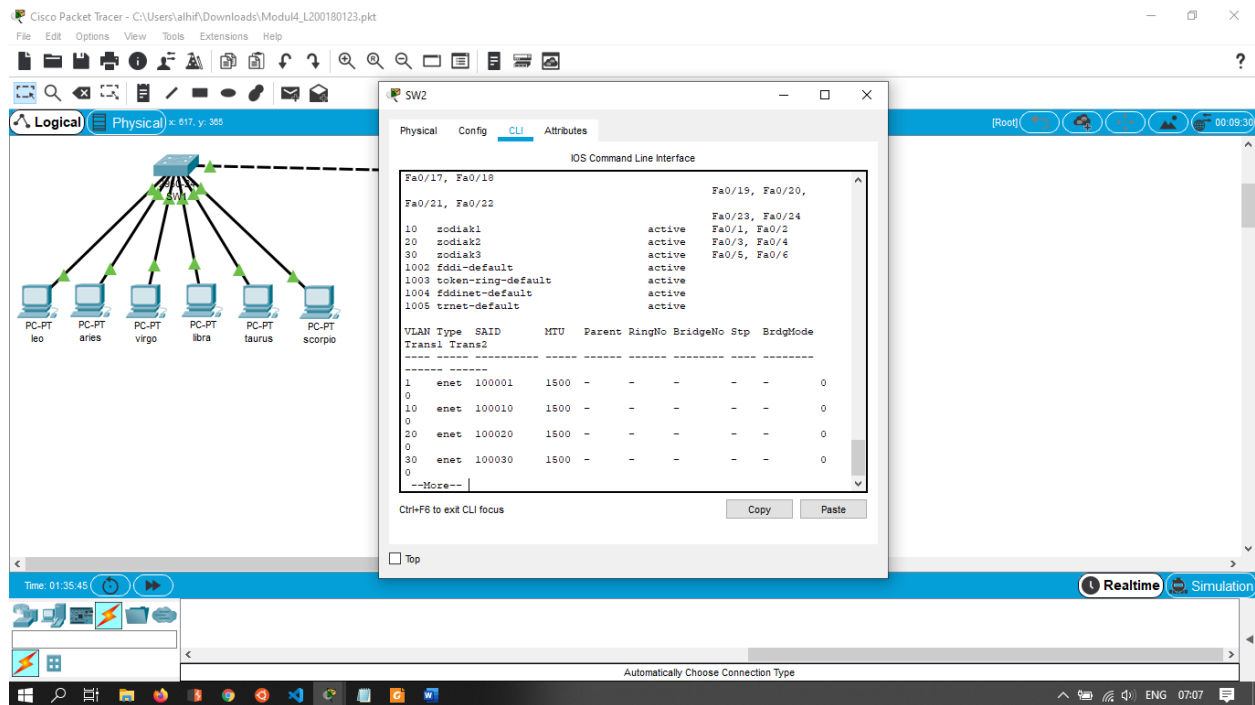
VLAN Name                Status    Ports
-----
1    default                active    Fa0/2, Fa0/3, Fa0/4, Fa0/5
                                           Fa0/6, Fa0/7, Fa0/8, Fa0/9
                                           Fa0/10, Fa0/11, Fa0/12, Fa0/13
                                           Fa0/14,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

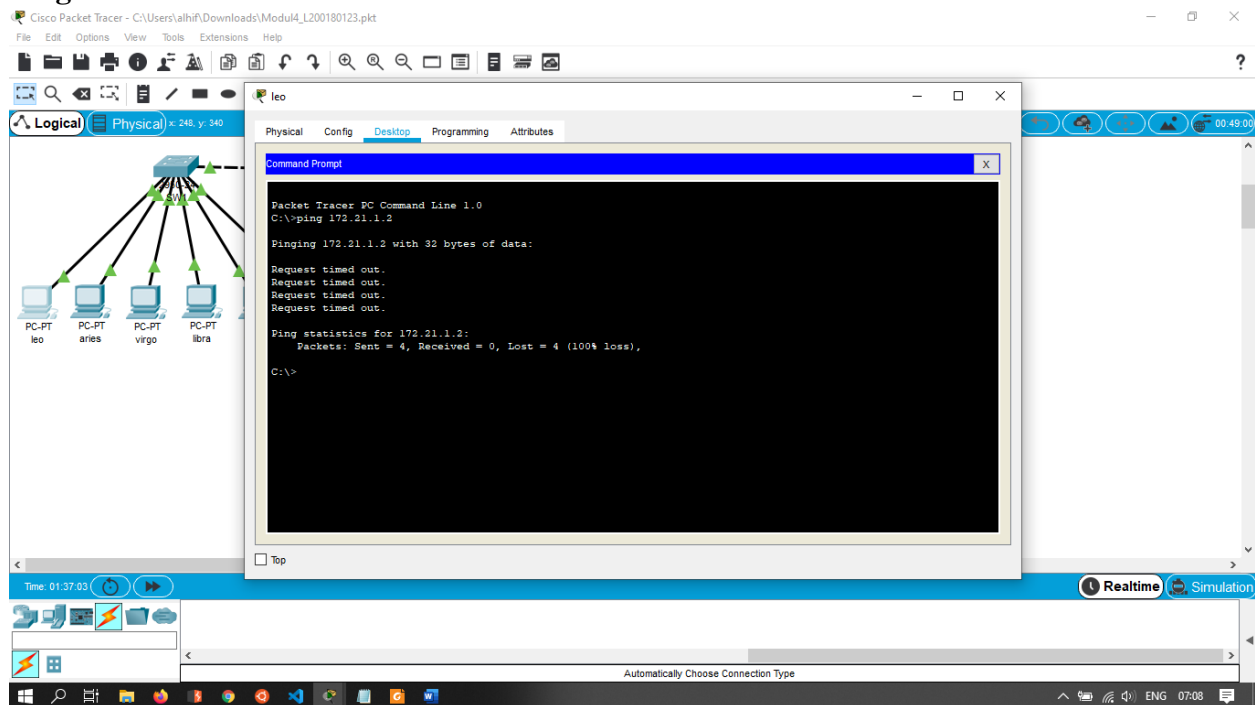
--More-- |
```

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.

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.