

**LAPORAN PRAKTIKUM JARINGAN KOMPUTER  
MODUL 4  
“VIRTUAL LAN DAN TRUNKING”**



**Oleh:**

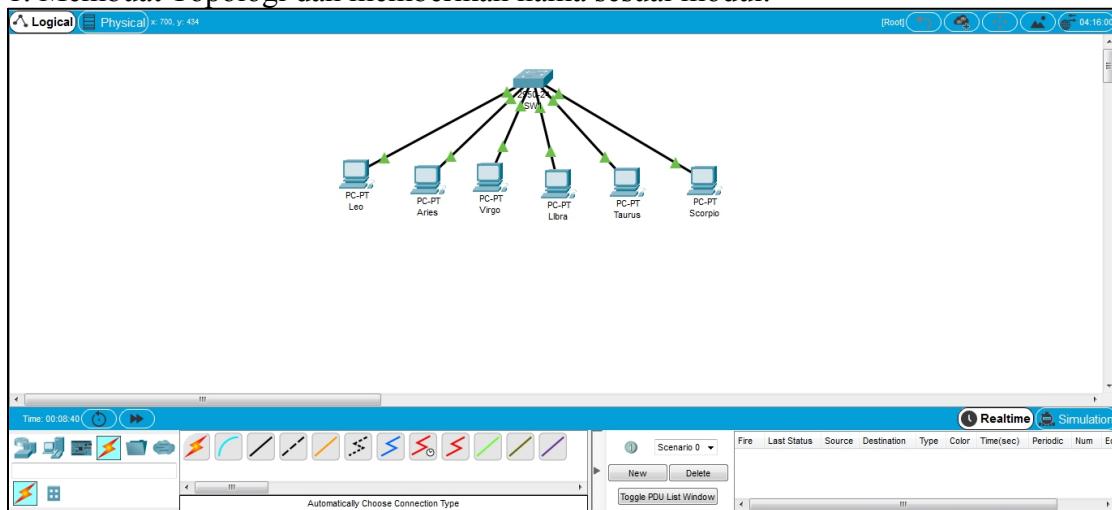
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## C. Kegiatan Praktikum

### 1. Kegiatan 1. Topologi 1

1. Membuat Topologi dan memberikan nama sesuai modul.



2. Mengkonfigurasi alamat IP, salah satunya:

**IP Leo**

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IPv4 Address	172.21.1.1
Subnet Mask	255.255.0.0

**IP Scorpio**

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IPv4 Address	172.21.1.6
Subnet Mask	255.255.0.0

3. Mengkonfigurasi “Switch(SW1)” dengan memberi nama vlan 10, 20, dan 30 dengan nama zodiak1, 2, dan 3

The screenshot shows the Cisco Switch SW1 CLI interface. The window title is "SW1". The tab bar at the top has "Physical", "Config", "CLI" (which is selected), and "Attributes". The main area is titled "IOS Command Line Interface". The command history shows:

```
*LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
*LINEPROTO-5-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 zodiak1
^
% Invalid input detected at '^' marker.

Switch(config)#vlan 10
Switch(config-vlan)#nam
% Incomplete command.
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)#

Ctrl+F6 to exit CLI focus
```

At the bottom of the window are "Copy" and "Paste" buttons, and a "Top" button.

4. mengkonfigurasi port-port switch kedalam vlan dengan rincian:  
zodiak1 = Leo dan Libra  
zodiak2 = Aries dan Taurus  
zodiak3 = Virgo dan Scorpio

The screenshot shows the Cisco Switch SW1 CLI interface. The window title is "SW1". The tab bar at the top has "Physical", "Config", "CLI" (which is selected), and "Attributes". The main area is titled "IOS Command Line Interface". The command history shows:

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

At the bottom of the window are "Copy" and "Paste" buttons, and a "Top" button.

## 5. Melihat konfigurasi pada vlan yang telah dibuat.

```

Switch#show vlan brief
VLAN Name          Status      Ports
----+-----+-----+
1   default        active     Fa0/1, Fa0/2, Fa0/3, 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 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 1000010 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 1000020 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 1000030 1500 -       -       -       -       0       0
Ctrl+F6 to exit CLI focus

```

```

Switch#show vlan brief
VLAN Name          Status      Ports
----+-----+-----+
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 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 1000010 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 1000020 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 1000030 1500 -       -       -       -       0       0
Switch#
Ctrl+F6 to exit CLI focus

```

### Tugas 6A (Informasi vlan)

- Vlan 10

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

- Vlan 20

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

- Vlan 30

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

### Tugas 6B (Hasil dari 6A)

- VLAN 10

Vlan dengan nilai 10 adalah zodiak1, memiliki port Fa 0/1 dan Fa 0/4 yang merupakan kelompok dari zodiak1, yaitu Leo dan Libra yang berstatus active.

- VLAN 20

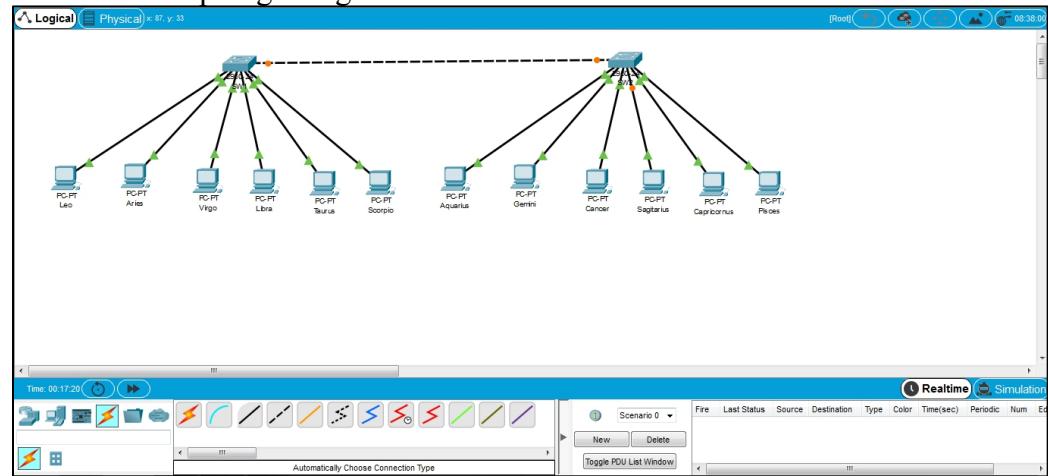
Vlan dengan nilai 20 adalah zodiak2, memiliki port Fa 0/2 dan Fa 0/5 yang merupakan kelompok dari zodiak2, yaitu Aries dan Taurus yang berstatus active.

- VLAN 30

Vlan dengan nilai 30 adalah zodiak3, memiliki port Fa 0/3 dan Fa 0/6 yang merupakan kelompok dari zodiak3, yaitu Virgo dan Scorpio yang berstatus active.

## 2.Kegiatan 2. Topologi

1. Membuat topologi dengan memberikan nama sesuai modul.



2. Mengkonfigurasi alamat ip, salah satunya:

**Ip Leo**

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IPv4 Address	172.21.1.1
Subnet Mask	255.255.255.0

**IP Pisces**

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IPv4 Address	172.21.3.4
Subnet Mask	255.255.255.0

3. Seperti langkah 4 dan 5 pada kegiatan satu, mengkonfigurasi “Switch” dengan memberi nama vlan dengan zodiak 1,2 dan 3. setelah itu-

The screenshot shows the Cisco IOS Command Line Interface (CLI) running on a device named SW1. The window title is "SW1". The tabs at the top are "Physical", "Config", "CLI" (which is selected), and "Attributes". The main area displays the following configuration commands:

```
*LINK-3-UPDOWN: Interface FastEthernet0/7, changed state to down
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to down
*LINK-5-CHANGED: Interface FastEthernet0/7, changed state to up
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, 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 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)#
Switch(config)#

Ctrl+F6 to exit CLI focus
```

At the bottom of the window, there are "Copy" and "Paste" buttons, and a "Top" button.

4. Mengkonfigurasi port-port “switch”.

The screenshot shows the Cisco IOS Command Line Interface (CLI) running on a device named SW1. The window title is "SW1". The tabs at the top are "Physical", "Config", "CLI" (which is selected), and "Attributes". The main area displays the following configuration commands:

```
switch(config-vlan)#exit
Switch(config)#
Switch(config)#int fa 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#int fa 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#int fa 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#
*SYS-5-CONFIG_I: Configured from console by console
```

At the bottom of the window, there are "Copy" and "Paste" buttons, and a "Top" button.

## 5. Konfigurasi vlan trunking pada switch 1

The screenshot shows the CLI window for a Cisco switch named SW1. The tab bar at the top has 'Physical', 'Config', 'CLI' (which is selected), and 'Attributes'. The main window displays the following configuration commands:

```
*SYS-S-CONFIG_I: Configured from console by console
Switch#enable
Switch#conf term
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)#
*LINPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to down

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

Switch(config-if)#exit
Switch(config)#exit
Switch#
*SYS-S-CONFIG_I: Configured from console by console

Switch#enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa 0/24
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#

Ctrl+F6 to exit CLI focus
```

A red box highlights the second configuration block for interface Fa0/24.

## 6. Melihat konfigurasi vlan trunking pada switch1

The screenshot shows the CLI window for a Cisco switch named SW1. The tab bar at the top has 'Physical', 'Config', 'CLI' (which is selected), and 'Attributes'. The main window displays the output of the 'show int fa 0/24 switchport' command:

```
Switch#show int fa 0/24 switchport
Name: Fa0/24
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
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
Appliance trust: none
```

Ctrl+F6 to exit CLI focus

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#show int trunk
Port Mode Encapsulation Status Native vlan
Fa0/7 on 802.1q trunking 1

Port Vlans allowed on trunk
Fa0/7 1-1005

Port Vlans allowed and active in management domain
Fa0/7 1,10,20,30

Port Vlans in spanning tree forwarding state and not pruned
Fa0/7 1,10,20,30

Switch#show vlan
VLAN Name Status Ports
---- --
1 default active Fa0/2, 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 sdiak2 active Fa0/3, Fa0/4
20 sdiak2 active Fa0/2, Fa0/5
30 sdiak3 active Fa0/3, 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 Trans1 Trans2
---- --
1 ethernet 100001 1500 - - - - - - 0 0
10 ethernet 100010 1500 - - - - - - 0 0
20 ethernet 100020 1500 - - - - - - 0 0
30 ethernet 100030 1500 - - - - - - 0 0
1002 fddi 100102 1500 - - - - - - 0 0
1003 tr 101003 1500 - - - - - - 0 0
1004 fddinet 101004 1500 - - - - - - 0 0

Ctrl+F6 to exit CLI focus
```

IOS Command Line Interface														
Vlan Name	Status	Ports												
1 default	active	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 zodisk1	active	Fa0/1, Fa0/4												
20 zodisk2	active	Fa0/2, Fa0/5												
30 zodisk3	active	Fa0/3, Fa0/6												
1002 fddinet-default	active													
1003 token-ring-default	active													
1004 fddinet-default	active													
1005 token-ring-default	active													
VLAN Type SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2						
1 enet 100001	1500	-	-	-	-	0	0							
10 enet 100010	1500	-	-	-	-	0	0							
20 enet 100011	1500	-	-	-	-	0	0							
30 enet 100030	1500	-	-	-	-	0	0							
1002 fddi 101002	1500	-	-	-	-	0	0							
1003 tr 101003	1500	-	-	-	-	0	0							
1004 fdnet 101004	1500	-	-	-	ieee	0	0							
1005 token 101005	1500	-	-	-	ieee	0	0							
VLAN Type SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2						
<hr/>														
Remote SPAN VLANs														
Primary	Secondary	Type	Ports											
Switch#	Switch#	Switch#												
Switch#	Switch#	Switch#												
Switch#	Switch#	Switch#												
<hr/>														
Ctrl+F6 to exit CLI focus														
								<input type="button" value="Copy"/>						
								<input type="button" value="Paste"/>						

### Tugas 7A

Pada langkah ini port yang sudah terkonfigurasi ke dalam vlan yaitu port 0/1- port 0/6, sedangkan port 0/24 untuk trunking antar switch.

Ping Leo ke Pisces

The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window has tabs at the top: Physical, Config, Desktop (which is selected), Programming, and Attributes. The main area displays the following text:

```
Subnet Mask.....: 255.255.255.0
Default Gateway...: ::1
                           0.0.0.0

Bluetooth Connection:

Connection-specific DNS Suffix...:
Link-local IPv6 Address....: ::1
IPv6 Address.....: ::1
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::1
                           0.0.0.0

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:\>
```

At the bottom left of the window, there is a "Top" button.

### Tugas 8A

Hasil ping dari PC Leo ke PC Pisces tidak mendapatkan “Reply” dan hasilnya “Request timed out” karena PC Leo dan PC Pisces tidak berada dalam satu VLAN dan memiliki network access yang berbeda.

## 7. Konfigurasi vlan trunking pada “switch2”

SW2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch>enable
Switch>conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa 0/1
Switch(config-if)#switchport mode trunk

Switch(config-if)#int fa 0/1
Switch(config-if)#switchport mode trunk

Switch(config-if)#int fa 0/1
Switch(config-if)#switchport mode trunk

Switch(config-if)#exit
Switch(config)#int fa 0/1
Switch(config-if)#exit
Switch(config)#int fa 0/1 switchport

% Invalid input detected at '^' marker.

Switch(config)#show int fa 0/1
Switch(config)#
^
% Invalid input detected at '^' marker.

Switch(config)#exit
Switch#
$SYS-5-CONFIG_I: Configured from console by console

Switch#int fa 0/1 switchport

% Invalid input detected at '^' marker.

Switch#show int fa 0/1
FastEthernet0/1 is up, line protocol is up (connected)
  Hardware is Lance, address is 0030.a322.ebd7 (bia 0030.a322.ebd7)
  BW 100000 Kbit, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mbps
  MTU 1500 bytes, current MTU 1500 bytes
  Queueing discipline pfifo_fast

Ctrl+F6 to exit CLI focus
```

#### 8. Melihat konfigurasi vlan trunking pada switch2

SW2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Port     VLANs assigned and active in management domain
Fa0/1      1
Fa0/7      1

Port     VLANs in spanning tree forwarding state and not pruned
Fa0/1      1
Fa0/7      1

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,
                           Fa0/11, 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 Trans1 Trans2
---- --
1    enet 1000001    1500 -       -       -       -       0       0
1002 fddi 1010002    1500 -       -       -       -       0       0
1003 tx 1010003     1500 -       -       -       -       0       0
1004 fddnet 1010004   1500 -       -       -       ieee   0       0
1005 trnet 1010005   1500 -       -       -       ibm   0       0

VLAN Type SAID      MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
---- --

Remote SPAN VLANs
---- --

Primary Secondary Type    Ports
---- --
```

Tugas 10A

Port-port pada fastethernet belum terkonfigurasi ke dalam VLAN, bahkan VLAN saja belum dibuat, baru langkah berikutnya dibuat.

9. Konfigurasi port switch kedalam vlan dengan rincian:

zodiak1 = aquarius dan gemini

zodiak2 = cancer dan sagitarius

zodiak 3 = capricornus dan pisces

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#  
Switch>enable  
Switch>conf 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)#int fa 0/1  
Switch(config-if)#switchport mode access  
Switch(config-if)#switchport access vlan 10  
Switch(config-if)#int fa 0/2  
Switch(config-if)#switchport mode access  
Switch(config-if)#switchport access vlan 10  
Switch(config-if)#exit  
Switch(config)#int fa 0/3  
Switch(config-if)#switchport mode access  
Switch(config-if)#switchport access vlan 20  
Switch(config-if)#int fa 0/4  
Switch(config-if)#switchport mode access  
Switch(config-if)#switchport access vlan 20  
Switch(config-if)#exit  
Switch(config)#int fa 0/5  
Switch(config-if)#switchport mode access  
Switch(config-if)#switchport access vlan 30  
Switch(config-if)#int fa 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
```

## Tugas 12A (penjelasan ada di bawah foto)

Leo ke Aries

The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window has tabs at the top: Physical, Config, Desktop (which is selected), Programming, and Attributes. The command line shows two ping operations:

```
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:\>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:\>
```

Hasilnya “Request timed out” karena PC Leo dan PC Aries tidak berada dalam satu VLAN meskipun memiliki network access yang sama.

Leo ke Aquarius

The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window has tabs at the top: Physical, Config, Desktop (which is selected), Programming, and Attributes. The command line shows two ping operations:

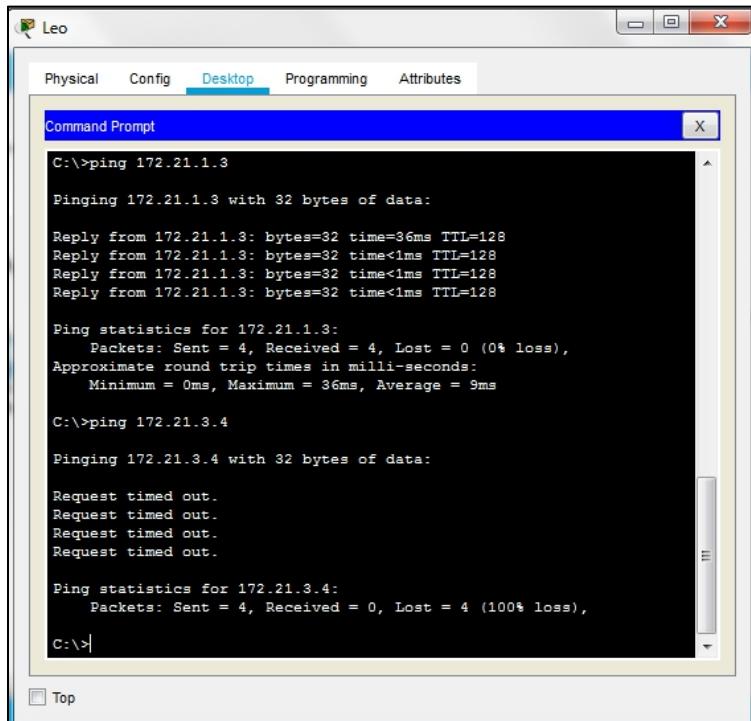
```
C:\>ping 172.21.1.2
Pinging 172.21.1.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.2:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Reply from 172.21.1.3: bytes=32 time=36ms 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 = 36ms, Average = 9ms
C:\>
```

Hasilnya “Reply from...” karena PC Leo dan PC Aquarius berada dalam satu VLAN dan memiliki network access yang sama.

## Leo ke Pisces



The screenshot shows the Leo software interface with a "Command Prompt" window open. The window title is "Command Prompt". The command entered is "C:\>ping 172.21.1.3". The output shows four successful ping responses from 172.21.1.3 with TTL=128 and times between 36ms and 9ms. Then, the command "C:\>ping 172.21.3.4" is entered, which results in four "Request timed out" messages. Finally, the command "C:\>" is shown again.

```
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=36ms 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

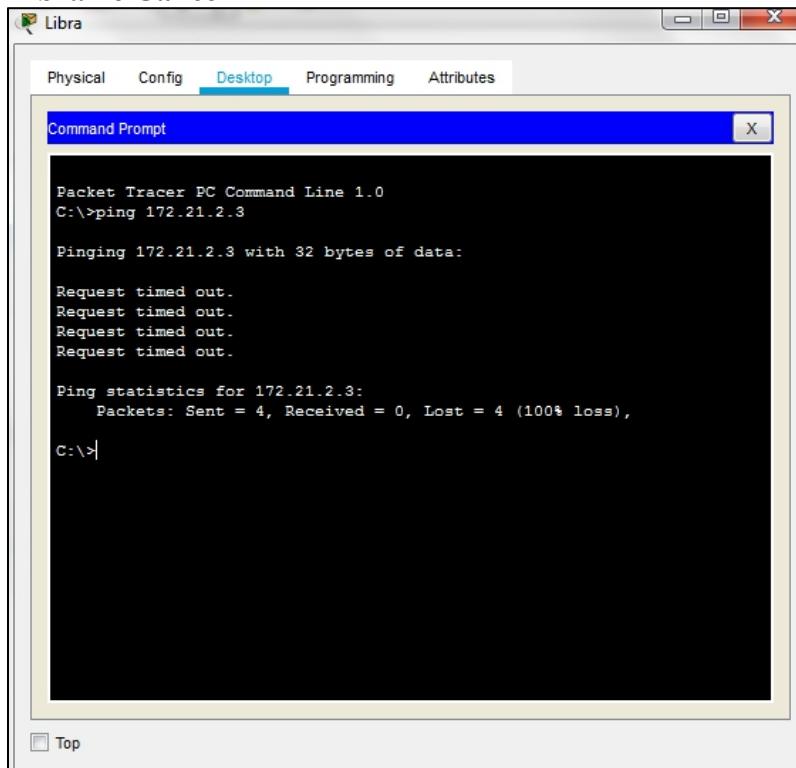
Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 36ms, Average = 9ms

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 “Request timed out” karena PC Leo dan PC Pisces tidak berada dalam satu VLAN dan memiliki network access yang berbeda.

## Libra ke Cancer



The screenshot shows the Libra software interface with a "Command Prompt" window open. The window title is "Command Prompt". The command entered is "C:\>ping 172.21.2.3". The output shows four "Request timed out" messages. Finally, the command "C:\>" is shown again.

```
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),
C:\>
```

Hasilnya “Request timed out” karena PC Libra dan PC Cancer tidak berada dalam satu VLAN meskipun memiliki network access yang sama.

## Libra ke Leo

The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window is part of a software interface with tabs for Physical, Config, Desktop (which is selected), Programming, and Attributes. The command line output is as follows:

```
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),
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),
C:\>
```

Hasil ping dari PC libra ke PC leo “Request timed out” karena PC Libra dan PC Leo tidak berada dalam satu VLAN meskipun memiliki network access yang sama.