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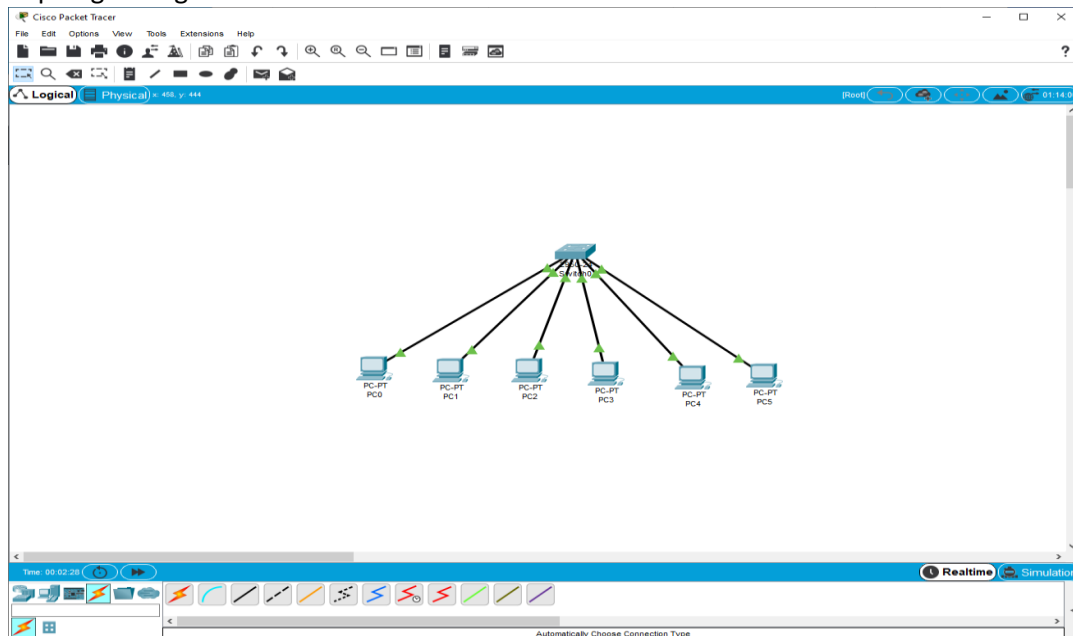
Kelas : D

Laporan Praktikum Jarkom Modul 4

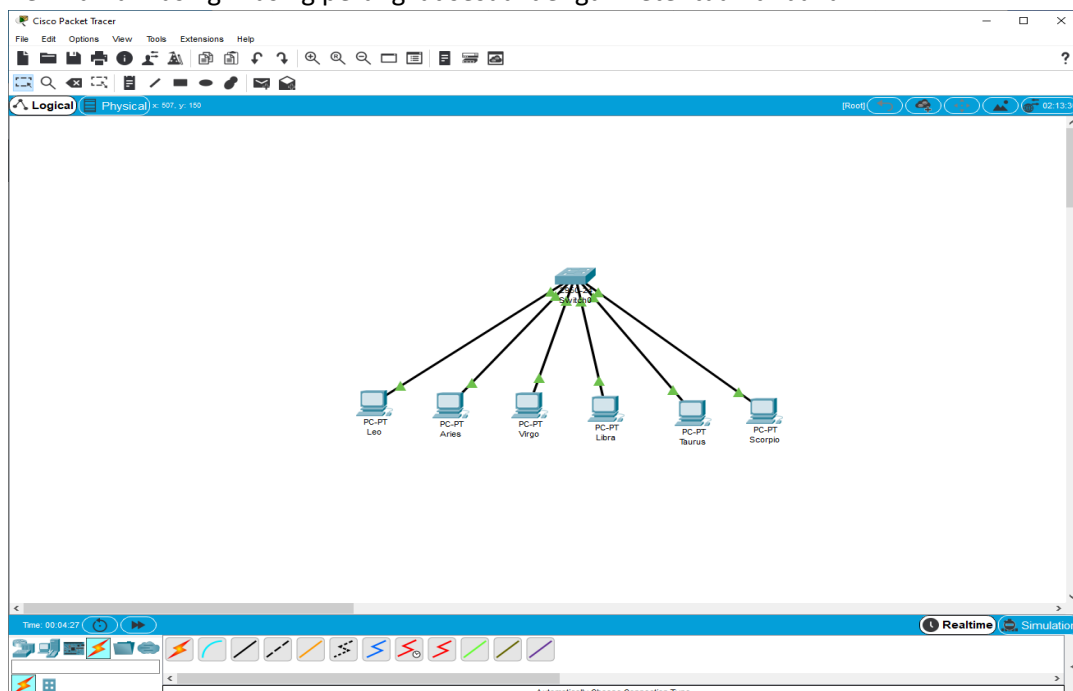
Kegiatan Modul 4

Topologi 1

1. Topologi Jaringan



2. Beri nama masing-masing perangkat sesuai dengan ketentuan di buku



3. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini :

- Leo

Leo

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.1

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:43FF:FE85:121A

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- Aries

Aries

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.2

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::206:2AFF:FE3D:2B31

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- Virgo

The screenshot shows the Virgo configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv6 Configuration' section shows 'Static' as the selected option. The '802.1X' section has 'Use 802.1X Security' unchecked. A 'Top' button is at the bottom left.

Field	Value
Interface	FastEthernet0
IP Configuration	<input type="radio"/> DHCP <input checked="" type="radio"/> Static
IP Address	172.21.1.3
Subnet Mask	255.255.0.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Configuration	<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static
IPv6 Address	
Link Local Address	FE80::20B:BEFF:FED8:C484
IPv6 Gateway	
IPv6 DNS Server	
802.1X	<input type="checkbox"/> Use 802.1X Security

- Libra

The screenshot shows the Libra configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv6 Configuration' section shows 'Static' as the selected option. The '802.1X' section has 'Use 802.1X Security' unchecked. A 'Top' button is at the bottom left.

Field	Value
Interface	FastEthernet0
IP Configuration	<input type="radio"/> DHCP <input checked="" type="radio"/> Static
IP Address	172.21.1.4
Subnet Mask	255.255.0.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Configuration	<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static
IPv6 Address	
Link Local Address	FE80::201:97FF:FE0B:6699
IPv6 Gateway	
IPv6 DNS Server	
802.1X	<input type="checkbox"/> Use 802.1X Security

- Taurus

The screenshot shows the 'Taurus' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv6 Configuration' section also has 'Static' selected. The '802.1X' section is collapsed.

Field	Value
Interface	FastEthernet0
IP Configuration	Static
IP Address	172.21.1.5
Subnet Mask	255.255.0.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Configuration	Static
IPv6 Address	
Link Local Address	FE80::2E0:B0FF:FEB3:377E
IPv6 Gateway	
IPv6 DNS Server	
802.1X	Use 802.1X Security

- Scorpio

The screenshot shows the 'Scorpio' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv6 Configuration' section also has 'Static' selected. The '802.1X' section is collapsed.

Field	Value
Interface	FastEthernet0
IP Configuration	Static
IP Address	172.21.1.6
Subnet Mask	255.255.0.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Configuration	Static
IPv6 Address	
Link Local Address	FE80::250:FFF:FE56:6CE3
IPv6 Gateway	
IPv6 DNS Server	
802.1X	Use 802.1X Security

4. Vlan 10

```
Switch#
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

```
Switch#
```

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

Telah membuat no VLAN 10 dengan nama zodiak1 dan memiliki port Fa 0/1 dan Fa 0/4 yang merupakan anggota dari zodiak1 yaitu Leo dan Libra, dan berstatus active.

5. Vlan 20

```
Switch#
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#
```

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

Telah membuat no VLAN 20 dengan nama zodiak2 dan memiliki port Fa 0/2 dan Fa 0/5 yang merupakan anggota dari zodiak2 yaitu Aries dan Taurus, dan berstatus active.

6. Vlan 30

```
Switch#
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

```

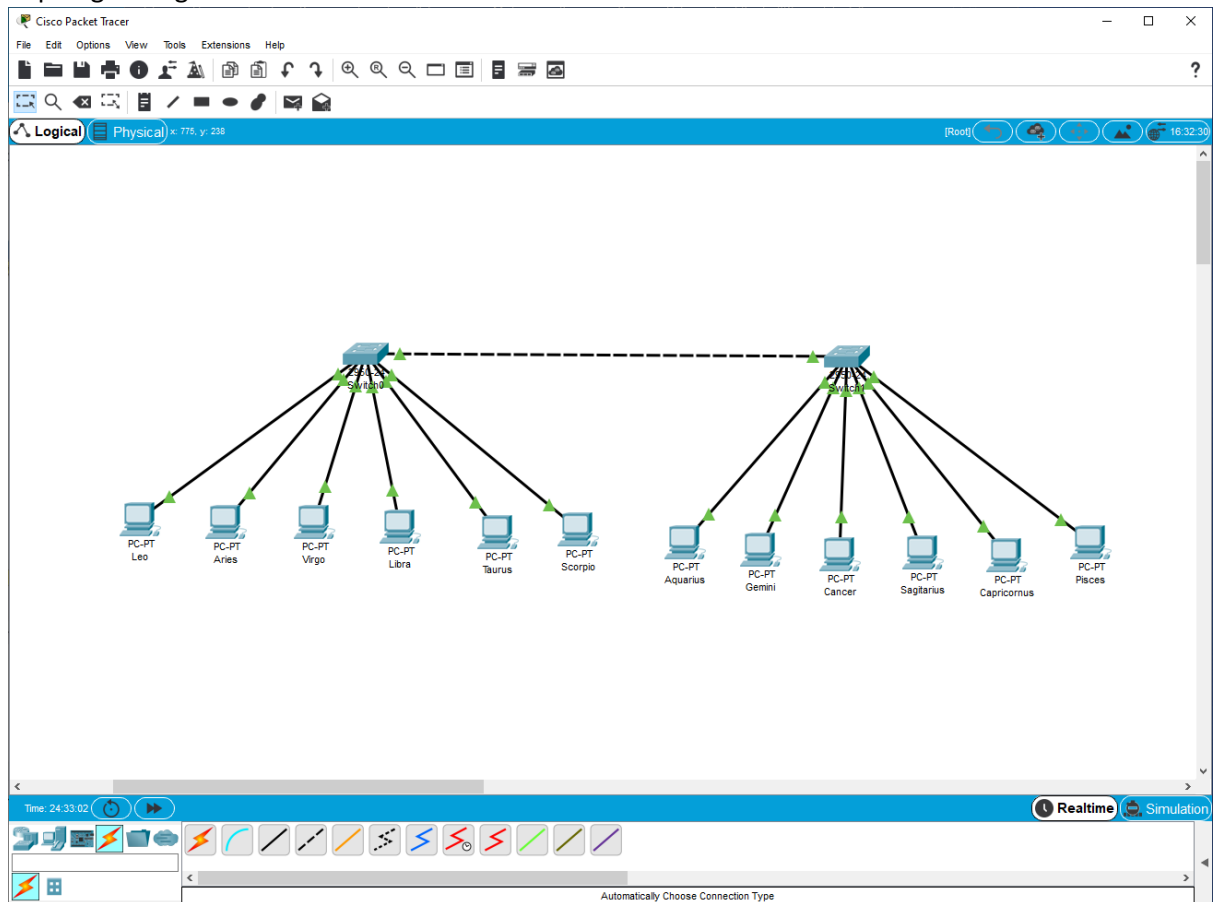
```
Switch#
```

No	Variabel	Nilai
1	Nomor VLAN	30
2	Nama VLAN	zodiak3
3	Port	Fa0/3, Fa0/5
4	Status	active

Telah membuat no VLAN 30 dengan nama zodiak3 dan memiliki port Fa 0/3 dan Fa 0/6 yang merupakan anggota dari zodiak3 yaitu Virgo dan Scorpio, dan berstatus active.

Topologi 2

1. Topologi Jaringan



2. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini :

- Leo

The screenshot shows the configuration window for PC Leo. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Interface' is 'FastEthernet0'. The 'Static' radio button is selected. The 'IP Address' is '172.21.1.1', the 'Subnet Mask' is '255.255.0.0', the 'Default Gateway' is '0.0.0.0', and the 'DNS Server' is '0.0.0.0'. Under 'IPv6 Configuration', the 'Static' radio button is selected. The 'IPv6 Address' is empty, the 'Link Local Address' is 'FE80::201:43FF:FE85:121A', the 'IPv6 Gateway' is empty, and the 'IPv6 DNS Server' is empty. The '802.1X' section has 'Use 802.1X Security' unchecked. The 'Top' button is at the bottom left.

- Aries

The Aries configuration window displays the 'Desktop' tab for the 'FastEthernet0' interface. The 'IP Configuration' section has 'Static' selected, with fields for IP Address (172.21.1.2), Subnet Mask (255.255.0.0), Default Gateway (0.0.0.0), and DNS Server (0.0.0.0). The 'IPv6 Configuration' section has 'Static' selected, with fields for IPv6 Address, Link Local Address (FE80::206:2AFF:FE3D:2B31), IPv6 Gateway, and IPv6 DNS Server. A '802.1X' section at the bottom includes a checkbox for 'Use 802.1X Security'.

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.2

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::206:2AFF:FE3D:2B31

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- Virgo

The Virgo configuration window displays the 'Desktop' tab for the 'FastEthernet0' interface. The 'IP Configuration' section has 'Static' selected, with fields for IP Address (172.21.2.1), Subnet Mask (255.255.0.0), Default Gateway (0.0.0.0), and DNS Server (0.0.0.0). The 'IPv6 Configuration' section has 'Static' selected, with fields for IPv6 Address, Link Local Address (FE80::20B:BEFF:FED8:C484), IPv6 Gateway, and IPv6 DNS Server. A '802.1X' section at the bottom includes a checkbox for 'Use 802.1X Security'.

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.1

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20B:BEFF:FED8:C484

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- **Libra**

The screenshot shows the 'Libra' application window with the 'Desktop' tab selected. The 'IP Configuration' dialog is open for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv6 Configuration' section has the 'Static' radio button selected. The '802.1X' section has the 'Use 802.1X Security' checkbox unchecked. A 'Top' button is at the bottom left.

IP Configuration		
Interface	FastEthernet0	
IP Configuration		
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static	
IP Address	172.21.2.2	
Subnet Mask	255.255.0.0	
Default Gateway	0.0.0.0	
DNS Server	0.0.0.0	
IPv6 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::201:97FF:FE0B:6699	
IPv6 Gateway		
IPv6 DNS Server		
802.1X		
<input type="checkbox"/> Use 802.1X Security		

☐ Top

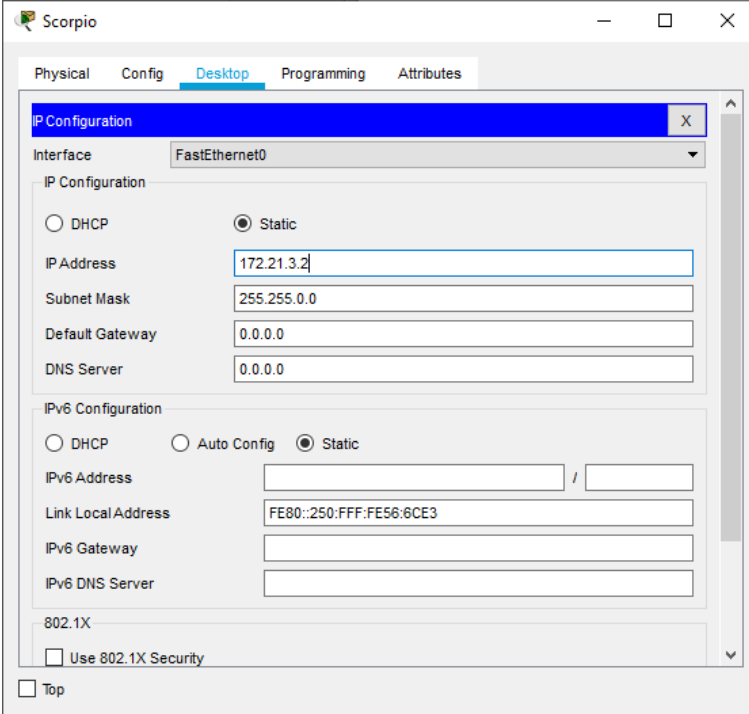
- **Taurus**

The screenshot shows the 'Taurus' application window with the 'Desktop' tab selected. The 'IP Configuration' dialog is open for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv6 Configuration' section has the 'Static' radio button selected. The '802.1X' section has the 'Use 802.1X Security' checkbox unchecked. A 'Top' button is at the bottom left.

IP Configuration		
Interface	FastEthernet0	
IP Configuration		
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static	
IP Address	172.21.3.1	
Subnet Mask	255.255.0.0	
Default Gateway	0.0.0.0	
DNS Server	0.0.0.0	
IPv6 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::2E0:B0FF:FE83:377E	
IPv6 Gateway		
IPv6 DNS Server		
802.1X		
<input type="checkbox"/> Use 802.1X Security		

☐ Top

- Scorpio



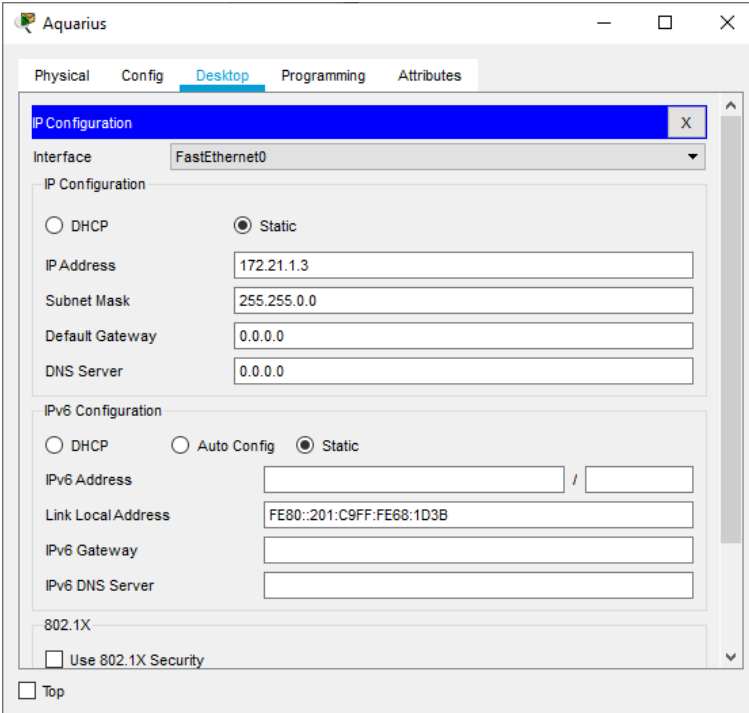
The Scorpio IP Configuration window shows the following settings:

Section	Option	Value
IP Configuration	DHCP	<input type="radio"/>
	Static	<input checked="" type="radio"/>
	IP Address	172.21.3.2
	Subnet Mask	255.255.0.0
	Default Gateway	0.0.0.0
IPv6 Configuration	DHCP	<input type="radio"/>
	Auto Config	<input type="radio"/>
	Static	<input checked="" type="radio"/>
	IPv6 Address	
	Link Local Address	FE80::250:FFF:FE56:6CE3
802.1X	Use 802.1X Security	<input type="checkbox"/>

Interface: FastEthernet0

Buttons: Top, X

- Aquarius



The Aquarius IP Configuration window shows the following settings:

Section	Option	Value
IP Configuration	DHCP	<input type="radio"/>
	Static	<input checked="" type="radio"/>
	IP Address	172.21.1.3
	Subnet Mask	255.255.0.0
	Default Gateway	0.0.0.0
IPv6 Configuration	DHCP	<input type="radio"/>
	Auto Config	<input type="radio"/>
	Static	<input checked="" type="radio"/>
	IPv6 Address	
	Link Local Address	FE80::201:C9FF:FE68:1D3B
802.1X	Use 802.1X Security	<input type="checkbox"/>

Interface: FastEthernet0

Buttons: Top, X

- Gemini

The screenshot shows the Gemini network configuration window. The 'Desktop' tab is selected. The 'IP Configuration' section is expanded, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected for IP Configuration. The IP Address is 172.21.1.4, Subnet Mask is 255.255.0.0, Default Gateway is 0.0.0.0, and DNS Server is 0.0.0.0. The 'IPv6 Configuration' section shows 'Static' selected, with an empty IPv6 Address field, Link Local Address FE80::260:70FF:FE1D:728B, and empty IPv6 Gateway and IPv6 DNS Server fields. The '802.1X' section has 'Use 802.1X Security' unchecked. A 'Top' button is at the bottom left.

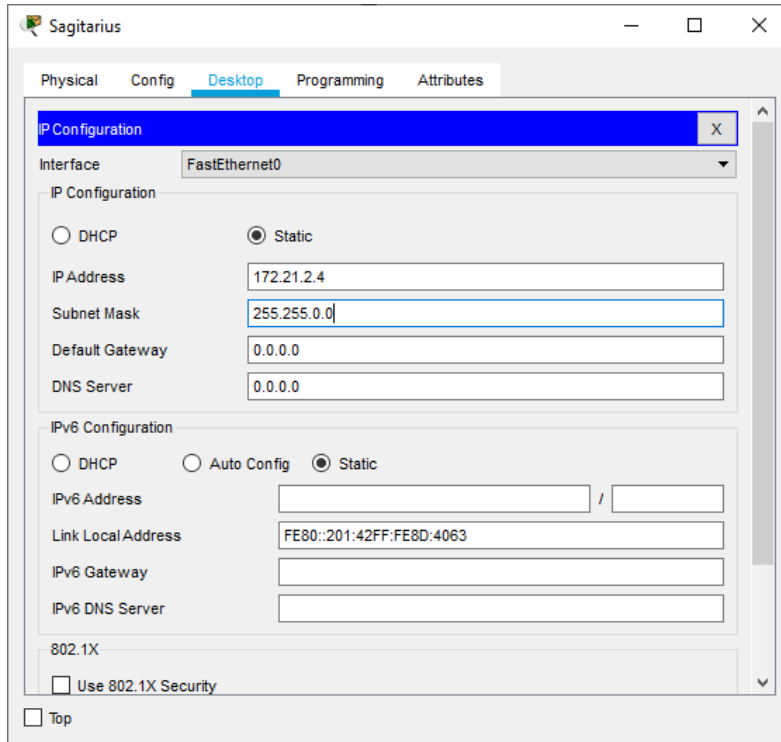
Section	Field	Value
IP Configuration	Interface	FastEthernet0
	Configuration Type	Static
	IP Address	172.21.1.4
	Subnet Mask	255.255.0.0
IPv6 Configuration	Configuration Type	Static
	IPv6 Address	
	Link Local Address	FE80::260:70FF:FE1D:728B
	IPv6 Gateway	
	IPv6 DNS Server	
802.1X	Use 802.1X Security	Unchecked

- Cancer

The screenshot shows the Cancer network configuration window. The 'Desktop' tab is selected. The 'IP Configuration' section is expanded, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected for IP Configuration. The IP Address is 172.21.2.3, Subnet Mask is 255.255.0.0, Default Gateway is 0.0.0.0, and DNS Server is 0.0.0.0. The 'IPv6 Configuration' section shows 'Static' selected, with an empty IPv6 Address field, Link Local Address FE80::240:BFF:FE16:50C9, and empty IPv6 Gateway and IPv6 DNS Server fields. The '802.1X' section has 'Use 802.1X Security' unchecked. A 'Top' button is at the bottom left.

Section	Field	Value
IP Configuration	Interface	FastEthernet0
	Configuration Type	Static
	IP Address	172.21.2.3
	Subnet Mask	255.255.0.0
IPv6 Configuration	Configuration Type	Static
	IPv6 Address	
	Link Local Address	FE80::240:BFF:FE16:50C9
	IPv6 Gateway	
	IPv6 DNS Server	
802.1X	Use 802.1X Security	Unchecked

- Sagitarius



The screenshot shows the 'Sagitarius' application window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected for IP Configuration. The IP Address is 172.21.2.4, Subnet Mask is 255.255.0.0, Default Gateway is 0.0.0.0, and DNS Server is 0.0.0.0. The IPv6 Configuration section shows 'Static' selected, with an empty IPv6 Address field, a Link Local Address of FE80::201:42FF:FE8D:4063, and empty fields for IPv6 Gateway and IPv6 DNS Server. The 802.1X section has 'Use 802.1X Security' unchecked. A 'Top' button is at the bottom left.

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.4

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:42FF:FE8D:4063

IPv6 Gateway

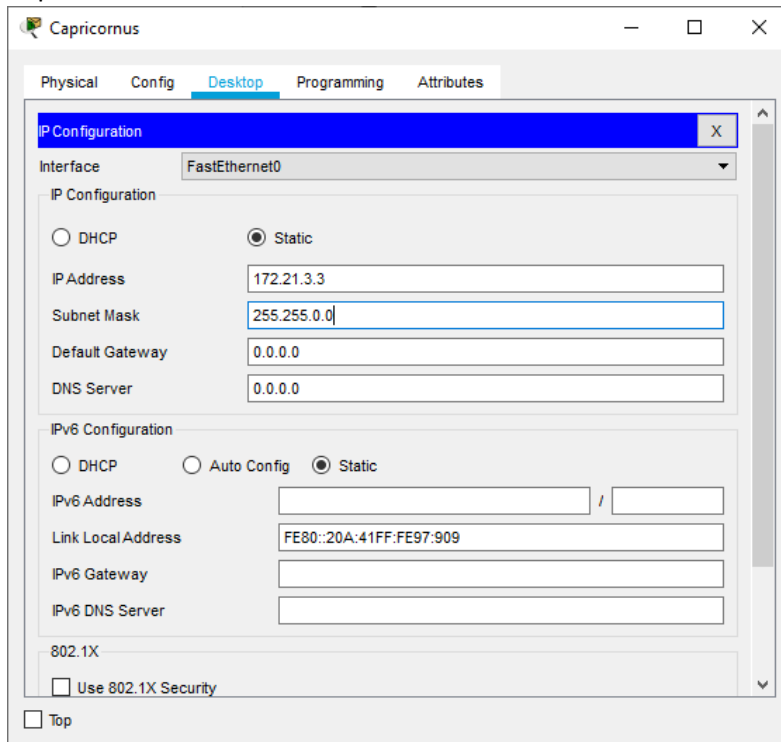
IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- Capricornus



The screenshot shows the 'Capricornus' application window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected for IP Configuration. The IP Address is 172.21.3.3, Subnet Mask is 255.255.0.0, Default Gateway is 0.0.0.0, and DNS Server is 0.0.0.0. The IPv6 Configuration section shows 'Static' selected, with an empty IPv6 Address field, a Link Local Address of FE80::20A:41FF:FE97:909, and empty fields for IPv6 Gateway and IPv6 DNS Server. The 802.1X section has 'Use 802.1X Security' unchecked. A 'Top' button is at the bottom left.

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.3.3

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20A:41FF:FE97:909

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- Pisces

The screenshot shows the 'Pisces' application window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing settings for 'FastEthernet0'. The 'Static' radio button is selected under 'IP Configuration'. The fields are filled with: IP Address: 172.21.3.4, Subnet Mask: 255.255.0.0, Default Gateway: 0.0.0.0, and DNS Server: 0.0.0.0. The 'IPv6 Configuration' section below has 'Static' selected, with fields for IPv6 Address, Link Local Address (FE80::201:C9FF:FE7D:2613), IPv6 Gateway, and IPv6 DNS Server. At the bottom, there is a checkbox for '802.1X' and a 'Top' button.

3. Melakukan konfigurasi VLAN trunking pada switch 1

The first screenshot shows the output of the command `Switch#show interface fastethernet 0/7 switchport`. It displays the interface configuration for Fa0/7, including administrative and operational modes, trunking status, and VLAN information.

```
Switch#show interface fastethernet 0/7 switchport
Name: Fa0/7
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Vlan: 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
Trunking VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Switch#show interface 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
```

The second screenshot shows the output of the command `Switch#show vlan`. It displays a list of VLANs configured on the switch, including their names, statuses, and associated ports.

```
Switch#show vlan
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   nodiak1                active    Fa0/1, Fa0/4
20   nodiak2                active    Fa0/3, Fa0/6
30   nodiak3                active    Fa0/5, Fa0/6
1002 fddi-default           act/unsup
1003 token-ring-default   act/unsup
1004 fddinet-default       act/unsup
1005 tnet-default          act/unsup

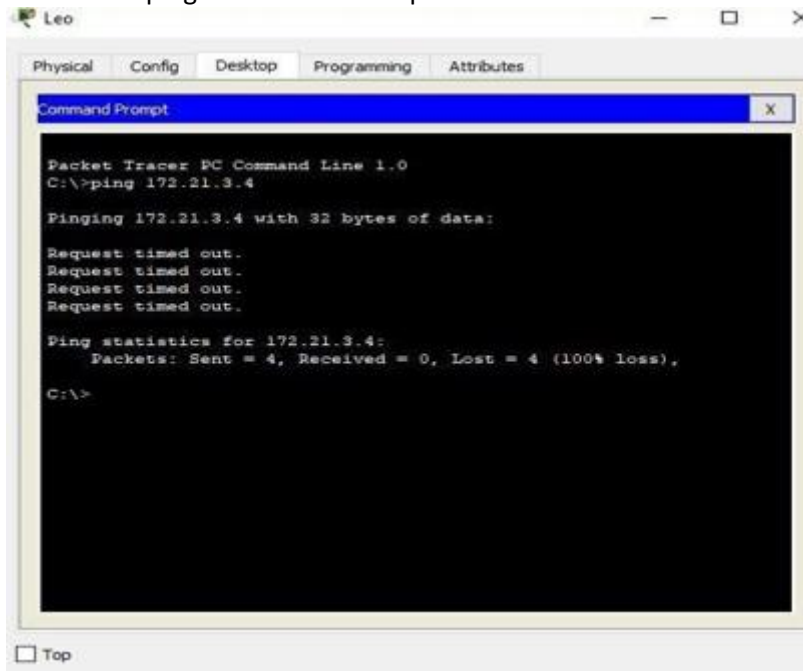
VLAN Type SAID      MTU   Parent RingNo BridgeNo Stp    BridgeMode Trans1 Trans2
-----
1    enet 100001 1500  -    -    -    -    -    0      0
10   enet 100010 1500  -    -    -    -    -    0      0
20   enet 100020 1500  -    -    -    -    -    0      0
30   enet 100030 1500  -    -    -    -    -    0      0
1002 fddi 101002 1500  -    -    -    -    -    0      0
1003 tr  101003 1500  -    -    -    -    -    0      0
1004 fddi 101004 1500  -    -    -    -    -    0      0
1005 tnet 101005 1500  -    -    -    -    -    0      0

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

Remote SPAN VLANs
-----
Primary Secondary Type      Ports
-----
Switch#
```

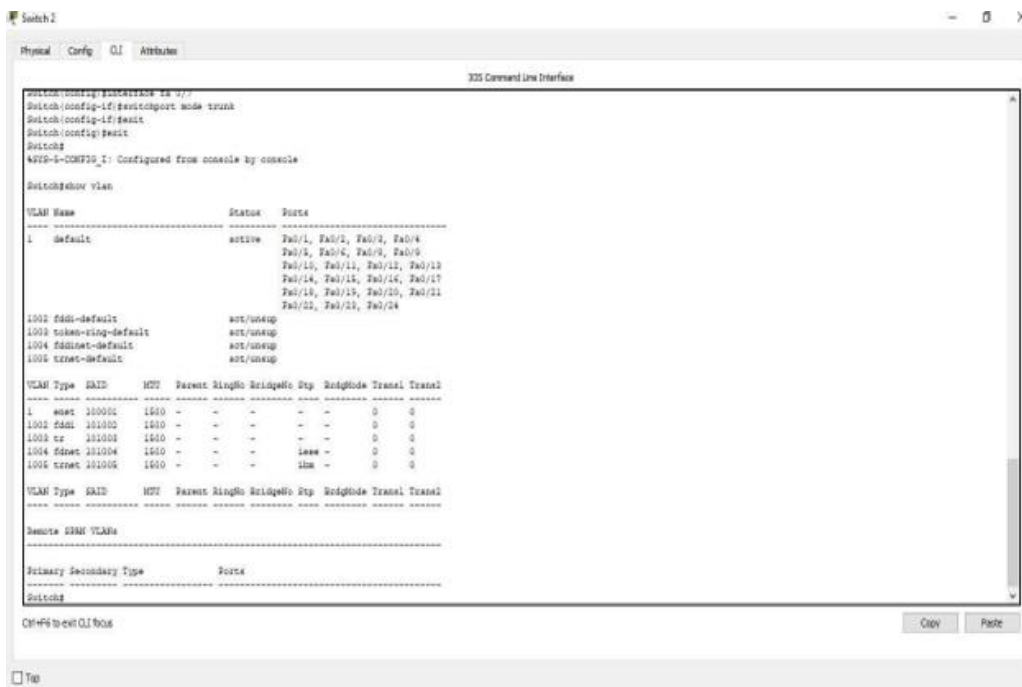
Pada langkah ini port yang sudah terkonfigurasi ke dalam vlan yaitu port 0/1 sampai port 0/6, sedangkan port 0/7 untuk trunking antar switch.

4. Melakukan ping dari PC leo ke PC pisces



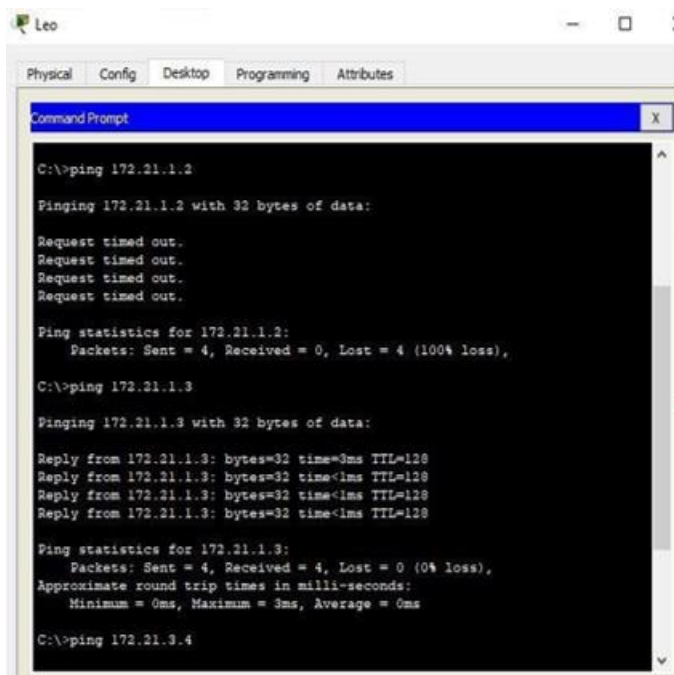
Hasil ping dari PC leo ke PC pisces “Request timed out” karena PC leo dan PC pisces tidak berada dalam satu VLAN dan memiliki network access yang berbeda.

Untuk melihat konfigurasi



Pada langkah ini port port fastethernet belum terkonfigurasi ke dalam VLAN, bahkan VLAN nya belum dibuat

5. Melakukan ping dari 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:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

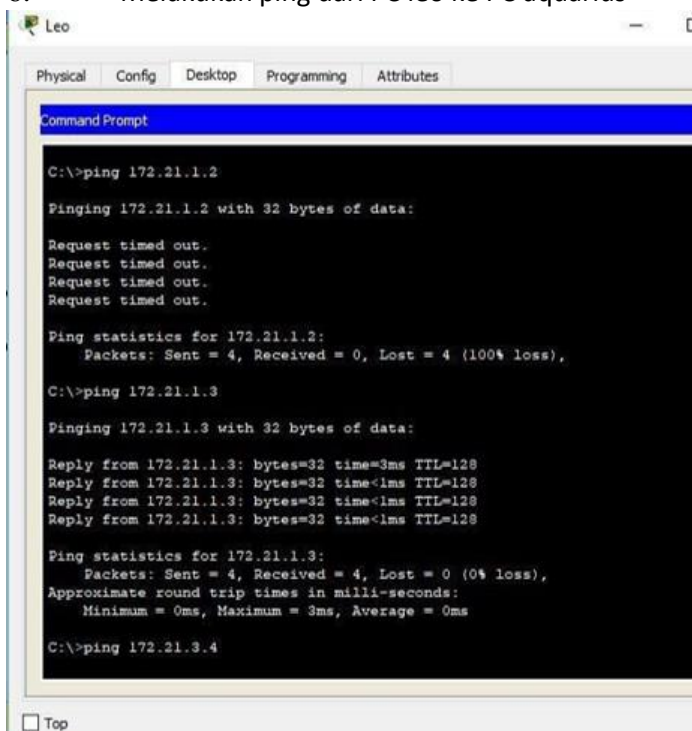
Reply from 172.21.1.3: bytes=32 time=3ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128

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

C:\>ping 172.21.3.4
```

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

6. Melakukan ping dari PC Leo ke PC Aquarius



```
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:

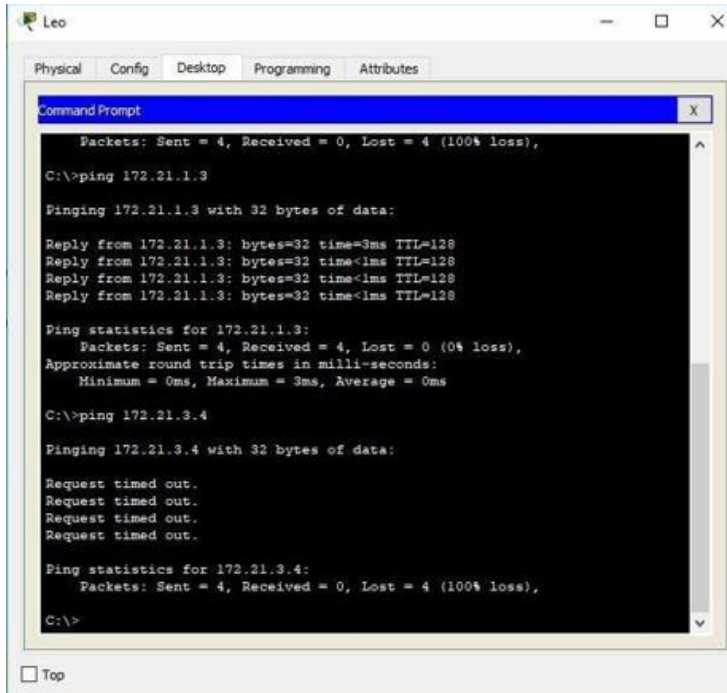
Reply from 172.21.1.3: bytes=32 time=3ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128

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

C:\>ping 172.21.3.4
```

Hasil ping dari PC Leo ke PC Aquarius “Reply” karena PC Leo dan PC Aquarius berada dalam satu VLAN dan memiliki network access yang sama.

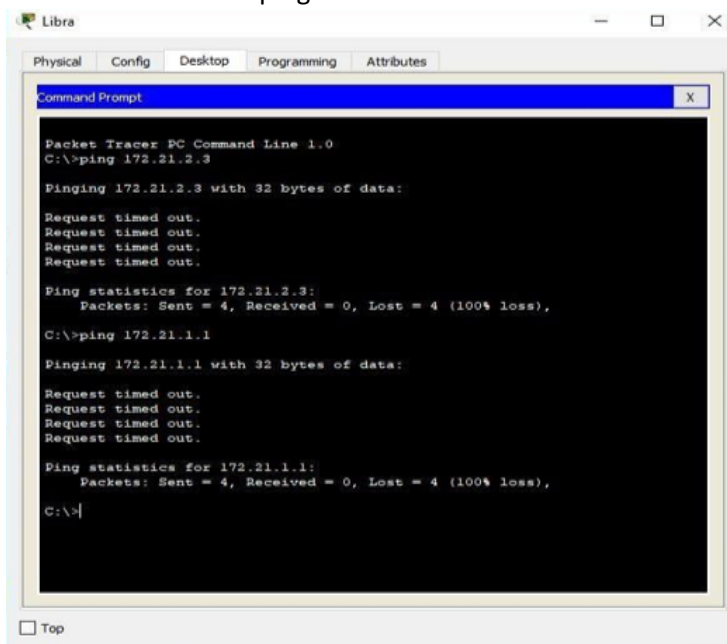
7. Melakukan ping dari PC leo ke PC pisces



```
Leo
Physical Config Desktop Programming Attributes
Command Prompt
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=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
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:\>
```

Hasil ping dari PC leo ke PC pisces “Request timed out” karena PC leo dan PC pisces tidak berada dalam satu VLAN dan memiliki network access yang berbeda.

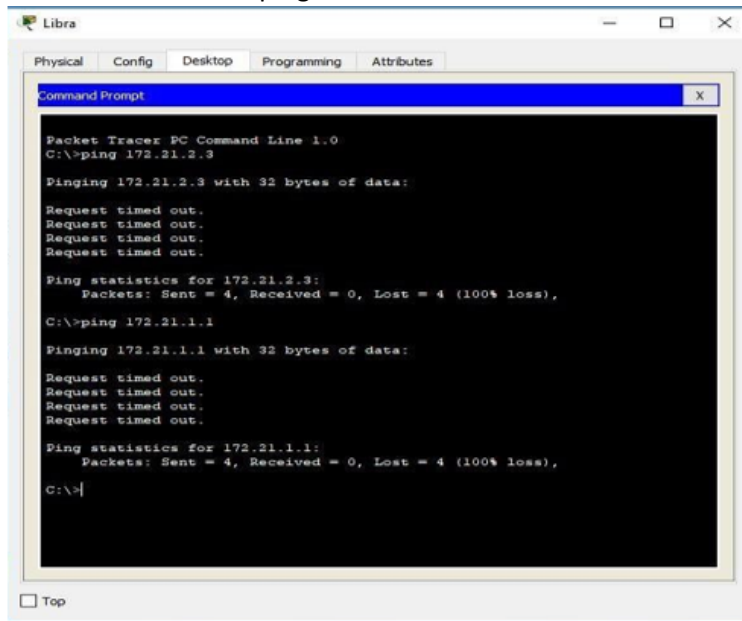
8. Melakukan ping dari PC libra ke PC cancer



```
Libra
Physical Config Desktop Programming Attributes
Command Prompt
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 cancer “Request timed out” karena PC libra dan PC cancer tidak berada dalam satu VLAN meskipun memiliki network access yang sama.

9. Melakukan ping dari PC libra ke PC leo



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.