

Nama : Diah Fitri Ramadhani

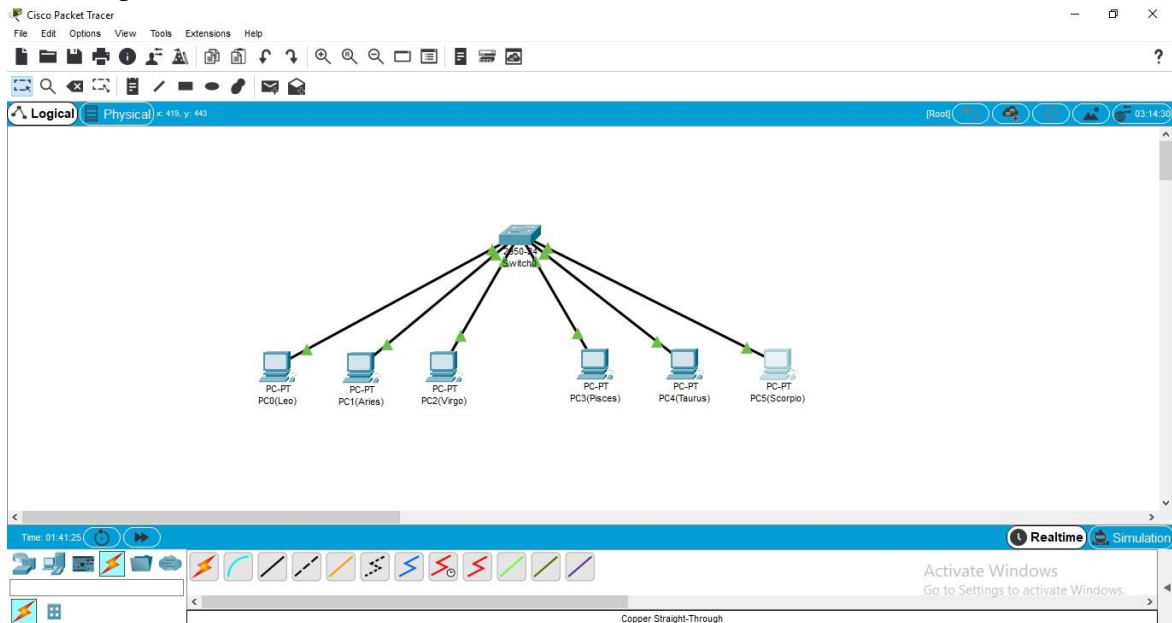
NIM : L200180106

Kelas : C

Modul 4

Kegiatan 1

a. Membuat topologi menggunakan switch yang diberi nama masing-masing perangkat dengan SW1 (Switch), Leo (PC0), Aries (PC1), Virgo (PC2), Pisces (PC3), Taurus (PC4), dan Scorpio (PC5).

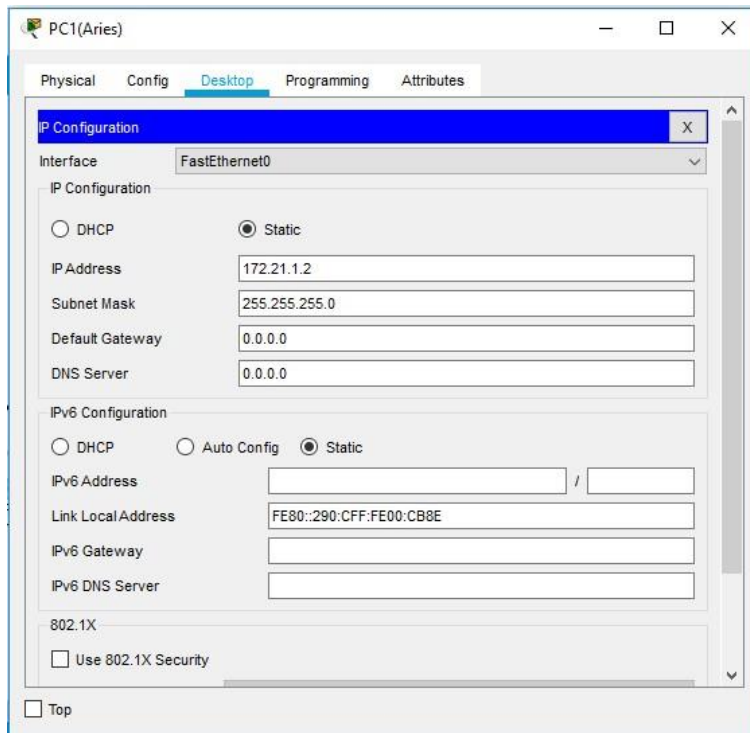


b. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini:

·Leo

The screenshot shows the configuration window for PC0(L). The 'Config' tab is selected, and the 'Desktop' sub-tab is active. The 'IP Configuration' section is expanded, showing the 'FastEthernet0' interface. The 'IP Configuration' section has two radio buttons: 'DHCP' and 'Static'. The 'Static' option is selected. The 'IP Address' is set to '172.21.1.1', the 'Subnet Mask' is '255.255.255.0', the 'Default Gateway' is '0.0.0.0', and the 'DNS Server' is '0.0.0.0'. The 'IPv6 Configuration' section has three radio buttons: 'DHCP', 'Auto Config', and 'Static'. The 'Static' option is selected. The 'IPv6 Address' is set to 'FE80::2E0:A3FF:FEAD:7300', the 'Link Local Address' is 'FE80::2E0:A3FF:FEAD:7300', the 'IPv6 Gateway' is empty, and the 'IPv6 DNS Server' is empty. The '802.1X' section has a checkbox for 'Use 802.1X Security' which is unchecked. The 'Top' button is at the bottom left.

- Aries



The screenshot shows the 'PC1(Aries)' configuration 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 172.21.1.2, Subnet Mask is 255.255.255.0, 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::290:CFF:FE00:CB8E, 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.

PC1(Aries)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::290:CFF:FE00:CB8E

IPv6 Gateway

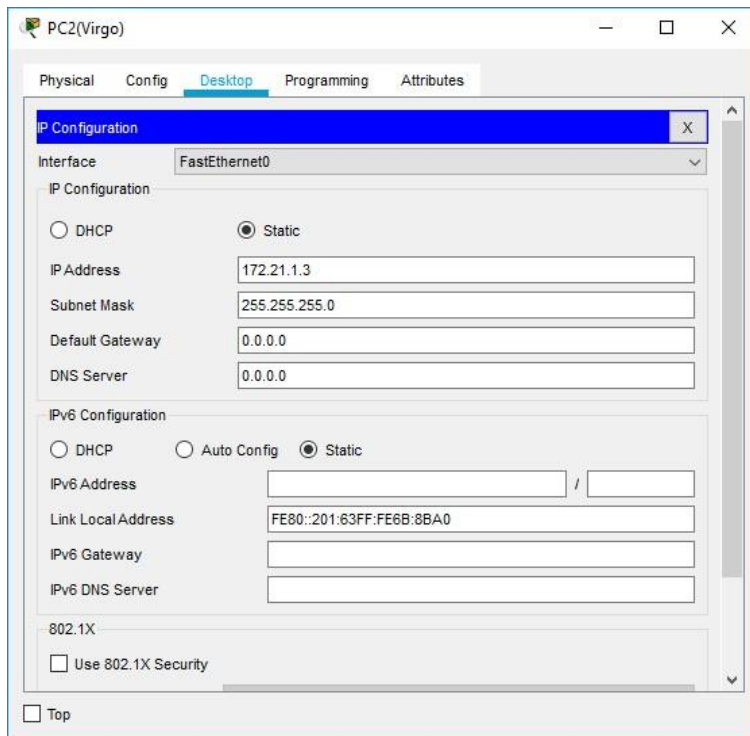
IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- Virgo



The screenshot shows the 'PC2(Virgo)' configuration 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 172.21.1.3, Subnet Mask is 255.255.255.0, 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::201:63FF:FE6B:8BA0, 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.

PC2(Virgo)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:63FF:FE6B:8BA0

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

- Libra

PC3(Libra)

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.1.4

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:63FF:FE33:E939

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

- Taurus

PC4(Taurus)

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.1.5

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::202:17FF:FE9D:4361

IPv6 Gateway:

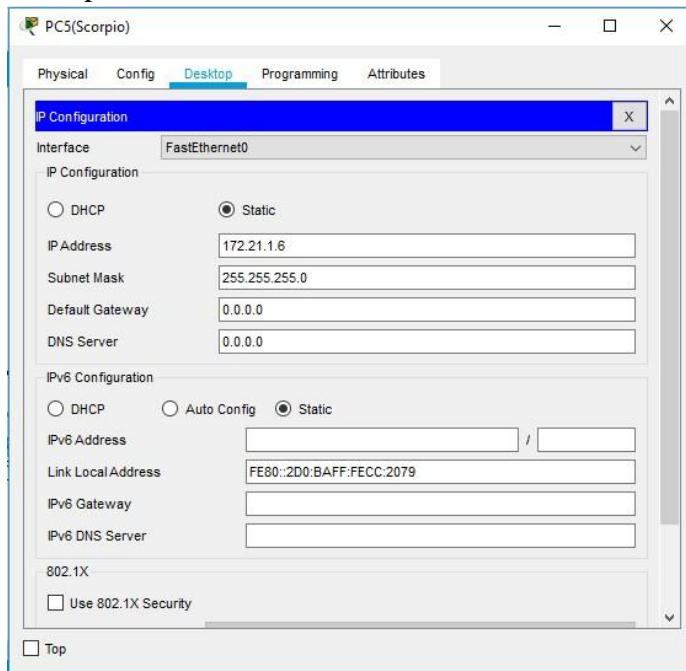
IPv6 DNS Server:

802.1X

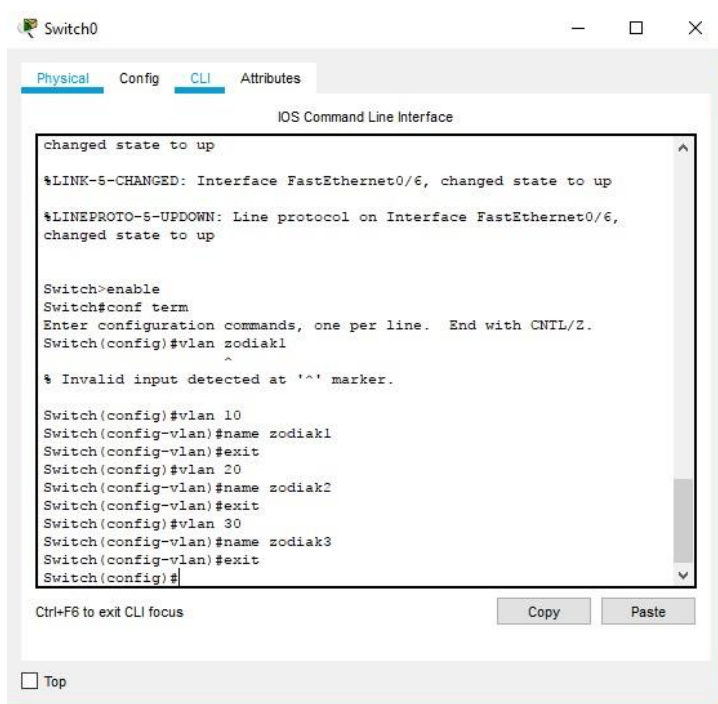
☐ Use 802.1X Security

☐ Top

- Scorpio



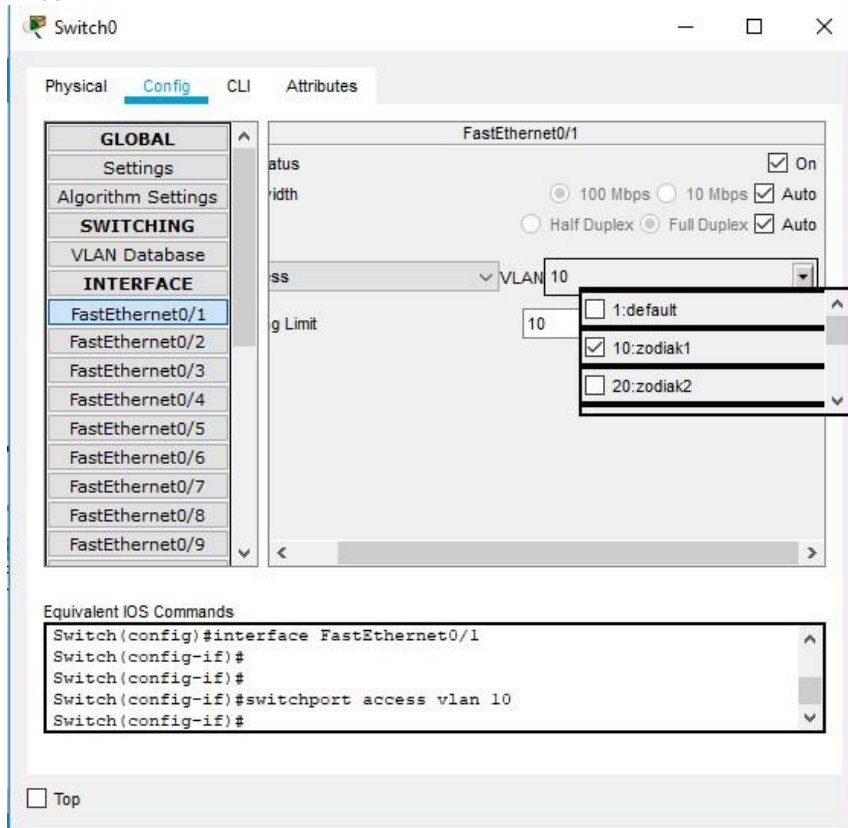
c. Konfigurasi pada switch dengan mode user atau mode privilege, buat 3 VLAN dengan nama zodiak1, zodiak2, dan zodiak3. Dengan cara klik pada switch 2 kali, kemudian pilih cli.



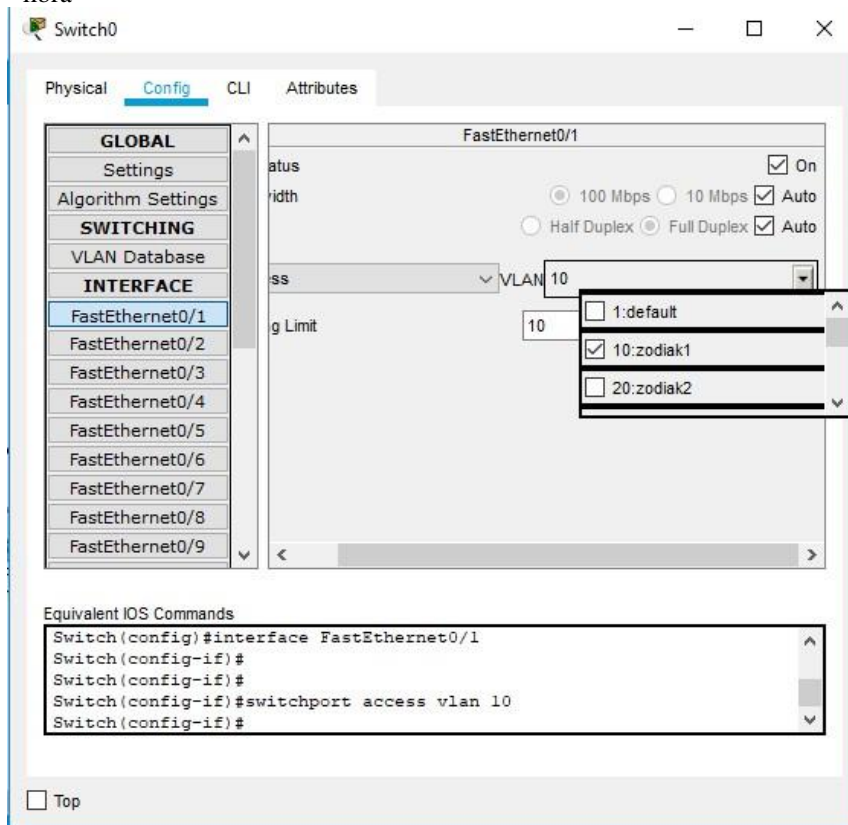
d. Pada mode configuration, konfigurasi port-port switch ke dalam vlan zodiak1, zodiak2, dan zodiak3 dengan anggota sebagai berikut.

Zodiak1 = leo dan libra

- Leo



- libra



Zodiak2 = Aries dan Taurus

- Aries

The screenshot shows the configuration window for Switch0. The left sidebar has a tree view with 'INTERFACE' expanded and 'FastEthernet0/2' selected. The main area shows the configuration for 'FastEthernet0/2'. The 'Status' is 'On'. The 'Speed' is set to '100 Mbps' and 'Auto'. The 'Duplex' is set to 'Full Duplex' and 'Auto'. The 'Access VLAN' is set to '20'. A dropdown menu is open for the 'Access VLAN' field, showing three options: '1:default', '10:zodiak1', and '20:zodiak2'. The '20:zodiak2' option is selected. Below the configuration area, there is a section for 'Equivalent IOS Commands' which contains the following commands:

```
Switch(config)#interface FastEthernet0/2
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
```

At the bottom left, there is a 'Top' button.

- Taurus

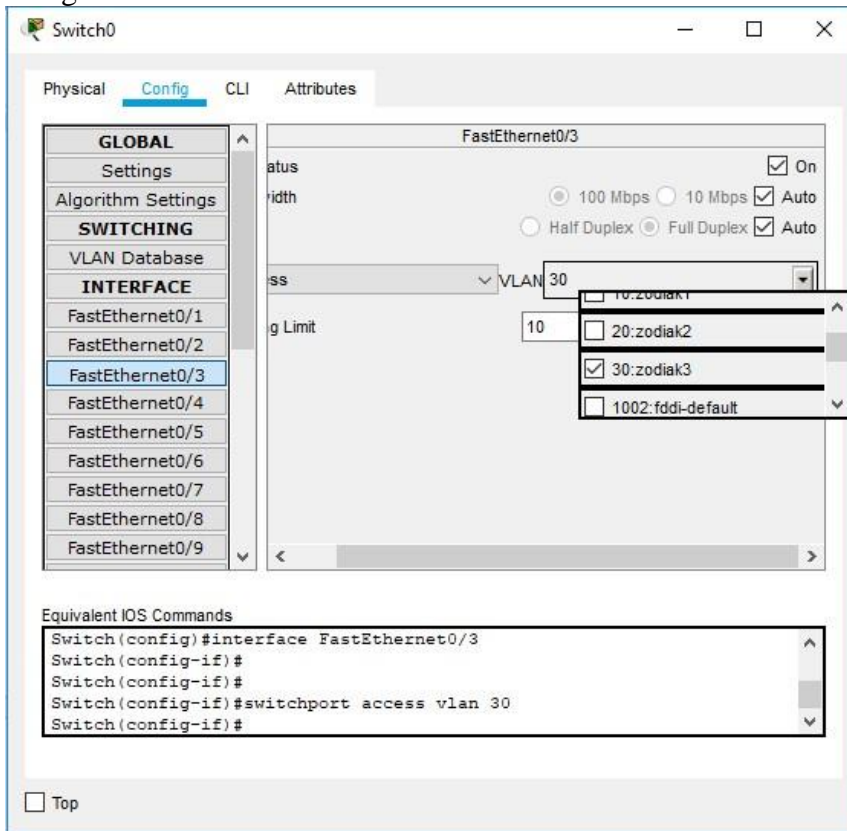
The screenshot shows the configuration window for Switch0. The left sidebar has a tree view with 'INTERFACE' expanded and 'FastEthernet0/5' selected. The main area shows the configuration for 'FastEthernet0/5'. The 'Status' is 'On'. The 'Speed' is set to '100 Mbps' and 'Auto'. The 'Duplex' is set to 'Full Duplex' and 'Auto'. The 'Access VLAN' is set to '20'. A dropdown menu is open for the 'Access VLAN' field, showing three options: '1:default', '10:zodiak1', and '20:zodiak2'. The '20:zodiak2' option is selected. Below the configuration area, there is a section for 'Equivalent IOS Commands' which contains the following commands:

```
Switch(config)#interface FastEthernet0/5
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
```

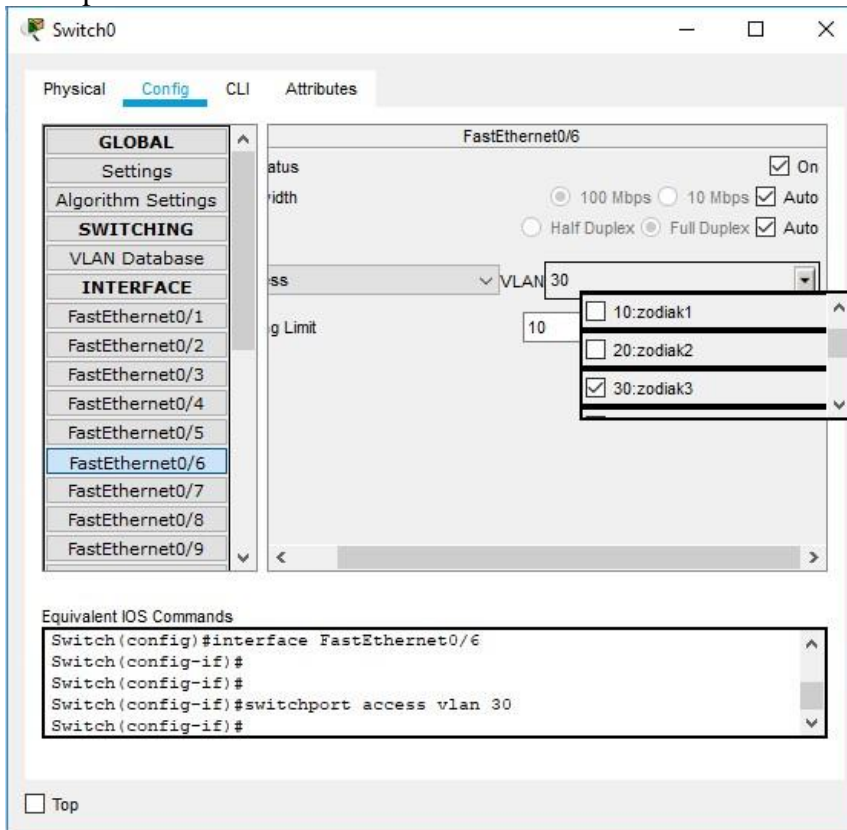
At the bottom left, there is a 'Top' button.

Zodiak3 = virgo dan scorio

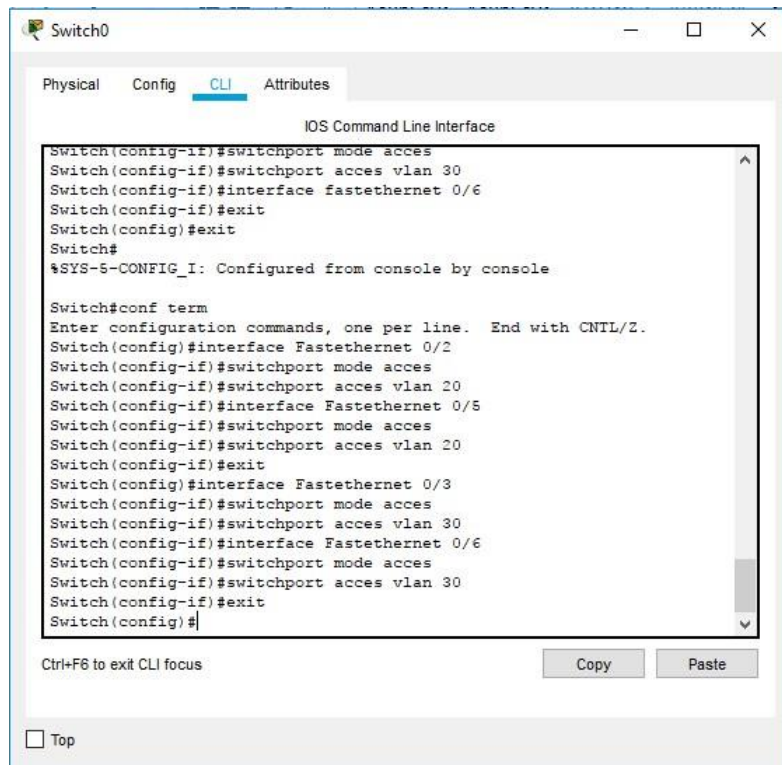
- Virgo



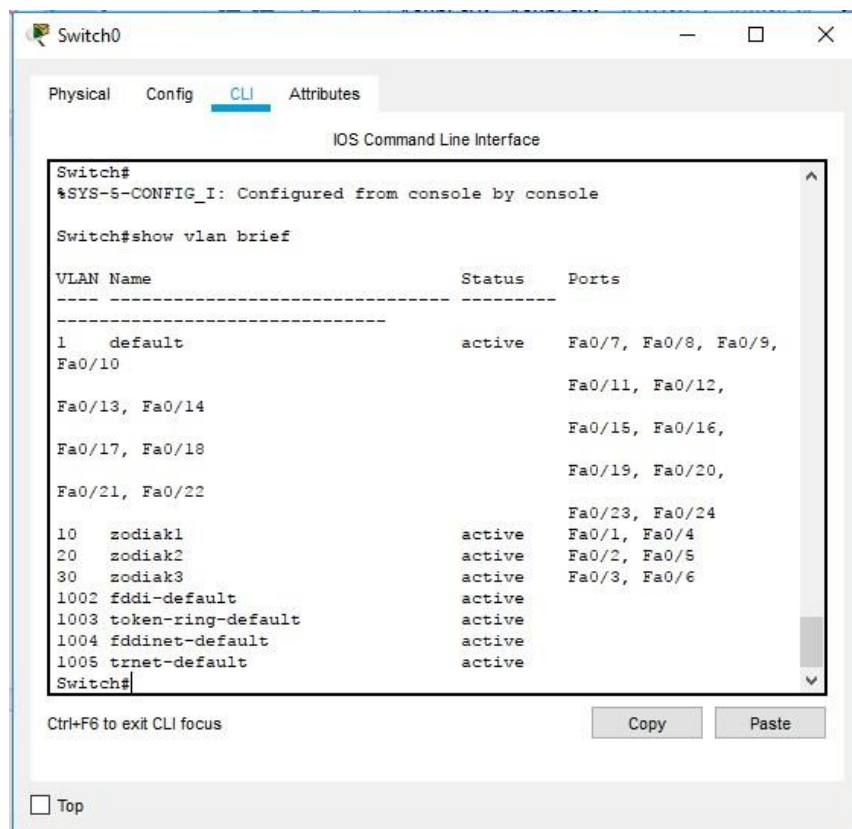
- Scorio



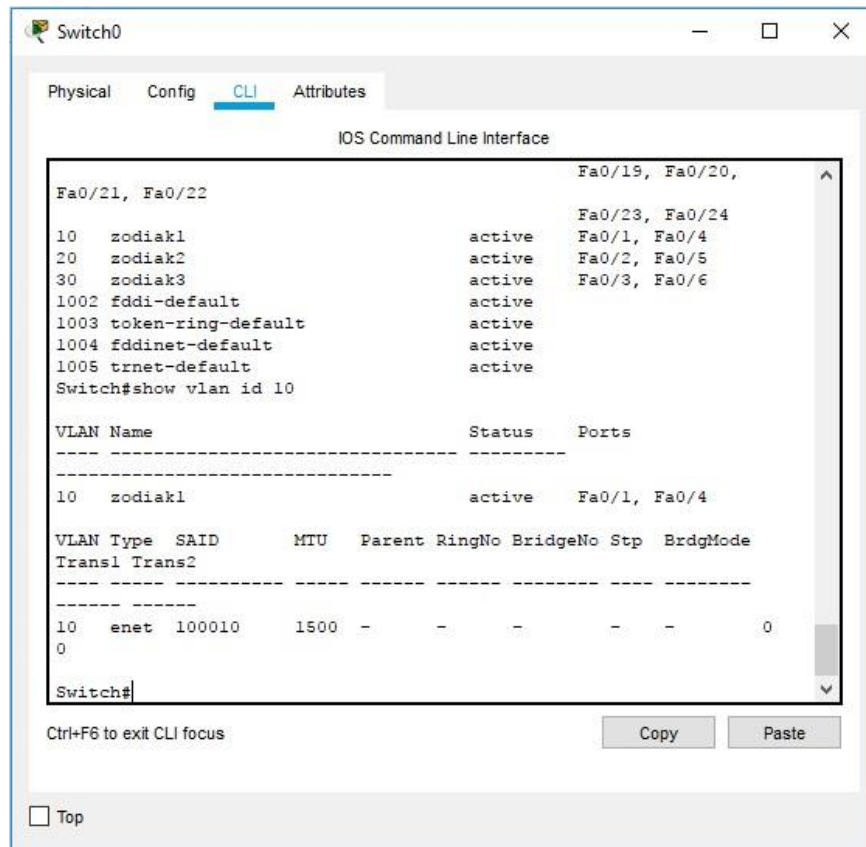
Langkah pengoperasian:



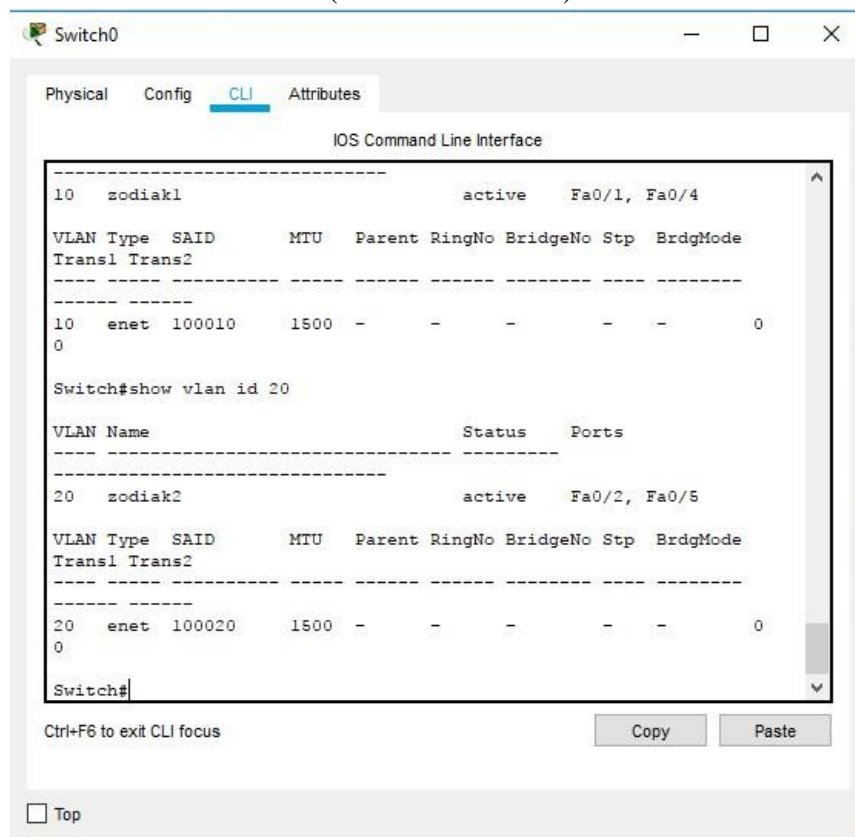
- f. Pada mode user atau mode previligid, lihat konfigurasi VLAN yang telah dibuat.
Langkah pengoperasian untuk melihat konfigurasi



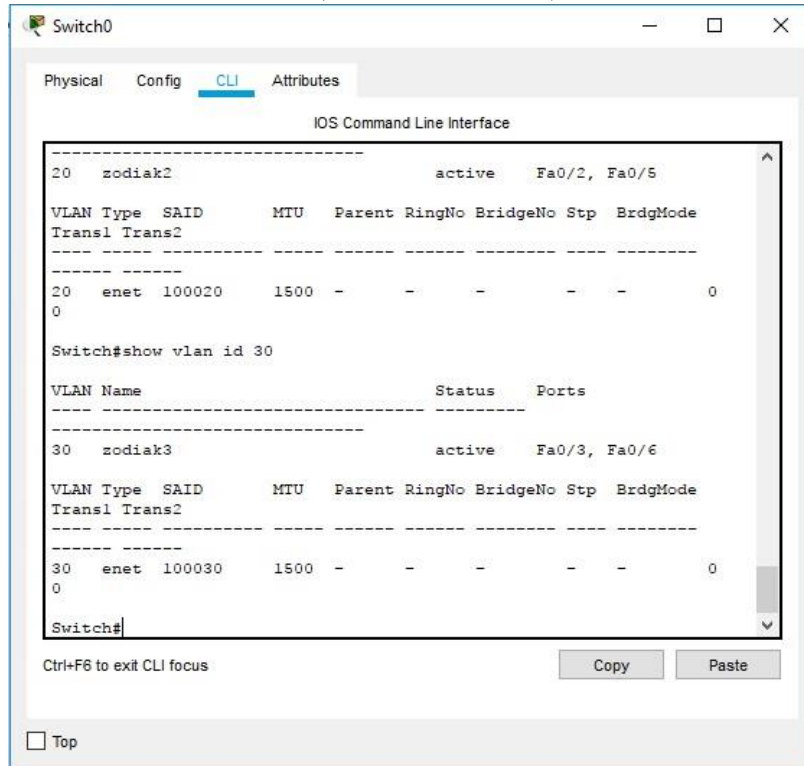
- Ketik **show vlan id 10** (informasi vlan 10)



- Ketik **show vlan id 20** (informasi vlan 20)



Ketik **show vlan id 30** (informasi vlan 30)



Tugas 6A : Capture masing-masing tampilan informasi vlan dan isi tabel berikut.

No.	Variabel	Nilai		
1	Nomor VLAN	10	20	30
2	Nama VLAN	zodiak1	zodiak2	zodiak3
3	Port	fa 0/1, fa 0/4	fa 0/2, fa 0/5	fa 0/3, fa 0/6
4	Status	active	active	active

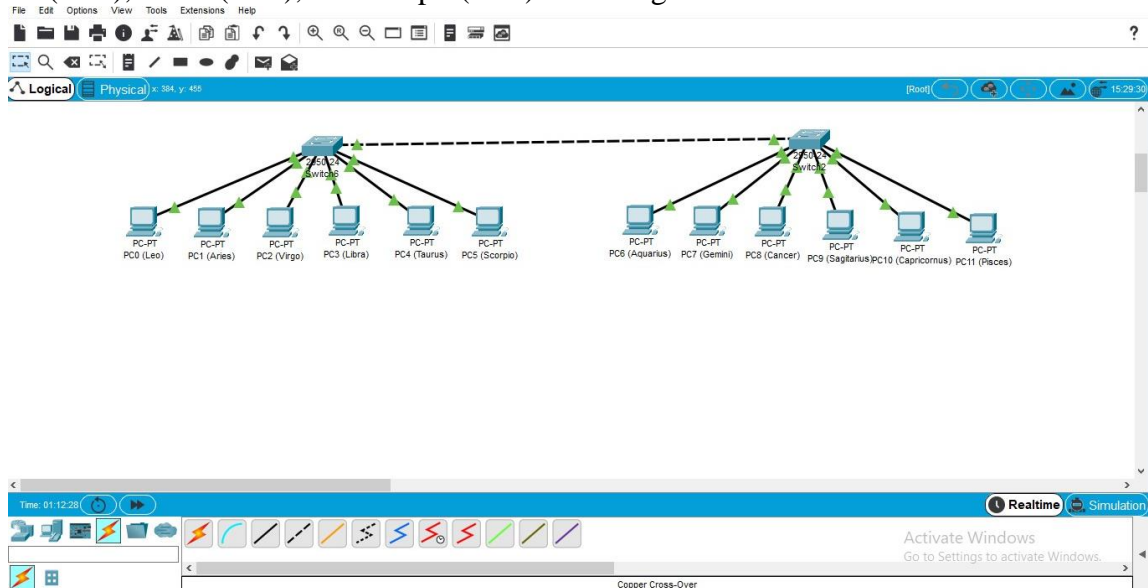
Tugas 6B: Jelaskan secara singkat hasil yang anda peroleh dari tugas 6A. Jawab :

fa0/1 yg merupakan PC1(leo) dan fa0/4 yg merupakan PC4(libra) berada pada VLAN yang sama yaitu zodiak1 dengan nomer VLAN 10 berstatus active. fa0/2 yg merupakan PC2(aries) dan fa0/5 yang merupakan PC5(Taurus) berada pada VLAN yang sama yaitu zodiak2 dengan nomer VLAN 20 berstatus active. fa0/3 yg merupakan PC3(virgo) dan fa0/6 yang merupakan PC6(scorpio) berada pada VLAN yang sama yaitu zodiak2 dengan nomer VLAN 30

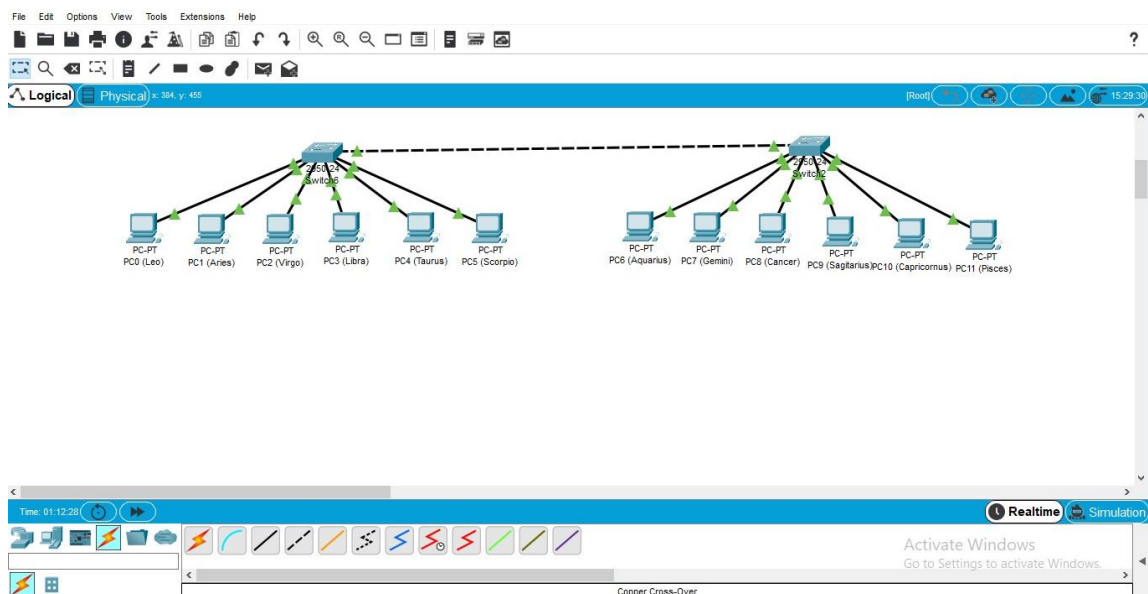
Jika melakukan ping antara port jaringan 1 VLAN yang sama maka statusnya akan sukses dan tidak terjadi kegagalan, lalu jika kita melakukan ping antara port pada VLAN yang berbeda maka statusnya akan terjadi kegagalan

Kegiatan 2.

Menggunakan cisco tracer buat topologi berikut ini dengan menggunakan switch Catalyst 2950. Beri nama masing-masing perangkat dengan SW1(switch 1), leo (PC0), aries(P1), virgo(PC2), libra(PC3), taurus(PC4), dan scorpio(PC5) untuk segmen switch 1.



Beri nama masing-masing perangkat dengan SW2(switch 2), aquarius(PC6), gemini(PC7), cancer(PC8), sagittarius(PC9),capricornus(PC10), dan pisces(PC11) untuk segmen switch 2.



Konfigurasi masing-masing PC dengan nama dan alamat IP berikut:

· Leo

The screenshot shows the configuration window for PC0 (Leo) in a network simulator. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying the IP Configuration for the FastEthernet0 interface. The configuration is set to Static, with an IP Address of 172.21.1.1, Subnet Mask of 255.255.255.0, Default Gateway of 0.0.0.0, and DNS Server of 0.0.0.0. The IPv6 Configuration section shows DHCP, Auto Config, and Static options, with Static selected. The IPv6 Address field is empty, and the Link Local Address is FE80::205:5EFF:FE11:BB2A. The IPv6 Gateway and IPv6 DNS Server fields are also empty. The 802.1X section has a checkbox for Use 802.1X Security, which is unchecked. A Top button is located at the bottom left of the window.

IP Configuration		
Interface	FastEthernet0	
IP Configuration		
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static	
IP Address	172.21.1.1	
Subnet Mask	255.255.255.0	
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::205:5EFF:FE11:BB2A	
IPv6 Gateway		
IPv6 DNS Server		
802.1X		
<input type="checkbox"/> Use 802.1X Security		

☐ Top

- Aries

PC1 (Aries)

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::203:E4FF:FE33:CABC

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

- Virgo

PC2 (Virgo)

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.2.1

Subnet Mask: 255.255.255.0

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:FE46:AB8C

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

Libra

PC3 (Libra)

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.2.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::230:F2FF:FE96:1A36

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

Taurus

PC4 (Taurus)

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.3.1

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::20C:85FF:FE67:A811

IPv6 Gateway:

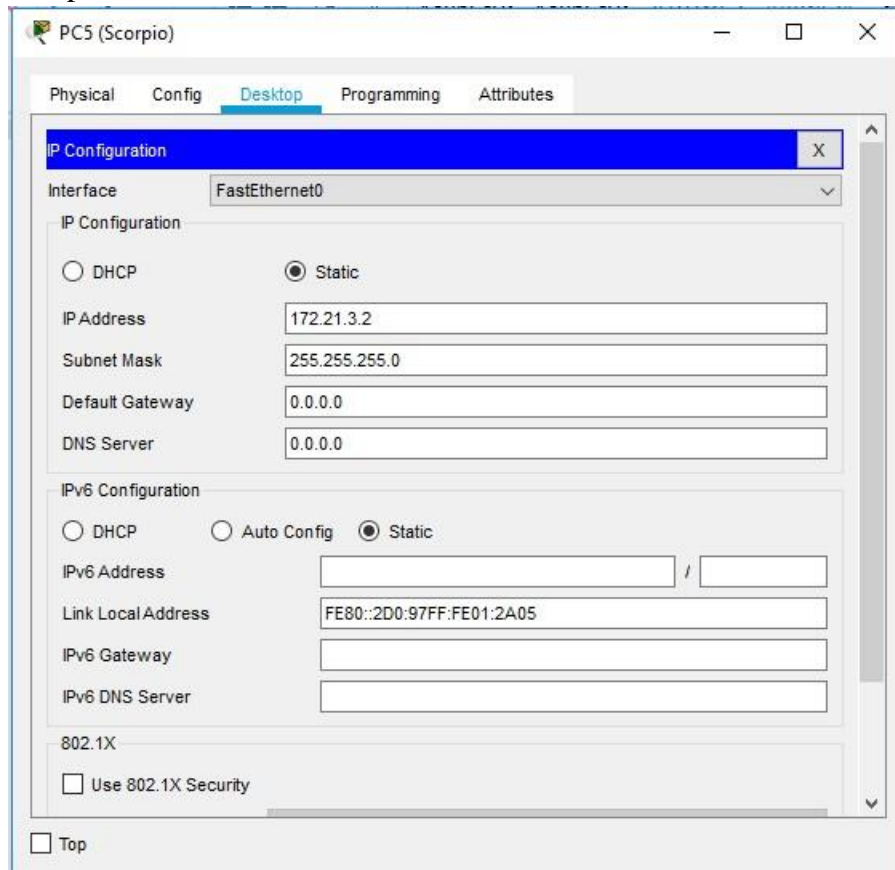
IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

Scorpio



PC5 (Scorpio)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.3.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:97FF:FE01:2A05

IPv6 Gateway

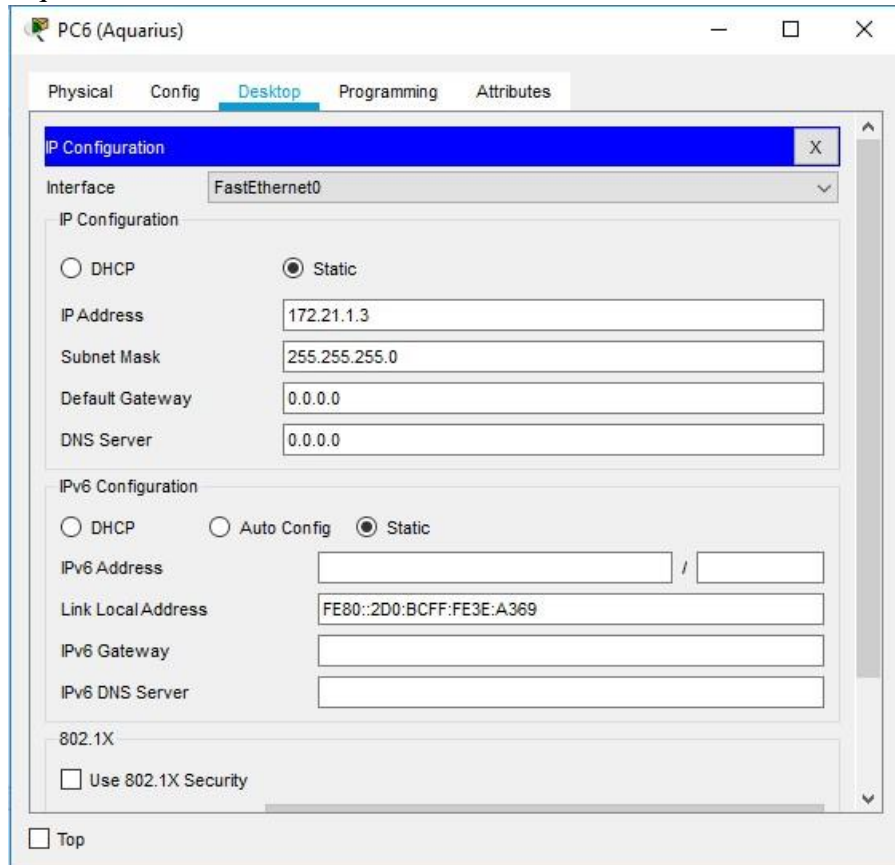
IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Aquarius



PC6 (Aquarius)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:BCFF:FE3E:A369

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Gemini

PC7 (Gemini)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.4

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::203:E4FF:FE33:3BAA

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Cancer

PC8 (Cancer)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::204:9AFF:FEA8:E123

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Sagittarius

PC9 (Sagittarius)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.4

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::260:5CFF:FE8C:8376

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

Capricornus

PC10 (Capricornus)

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.3.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::290:CFF:FEAC:4764

IPv6 Gateway

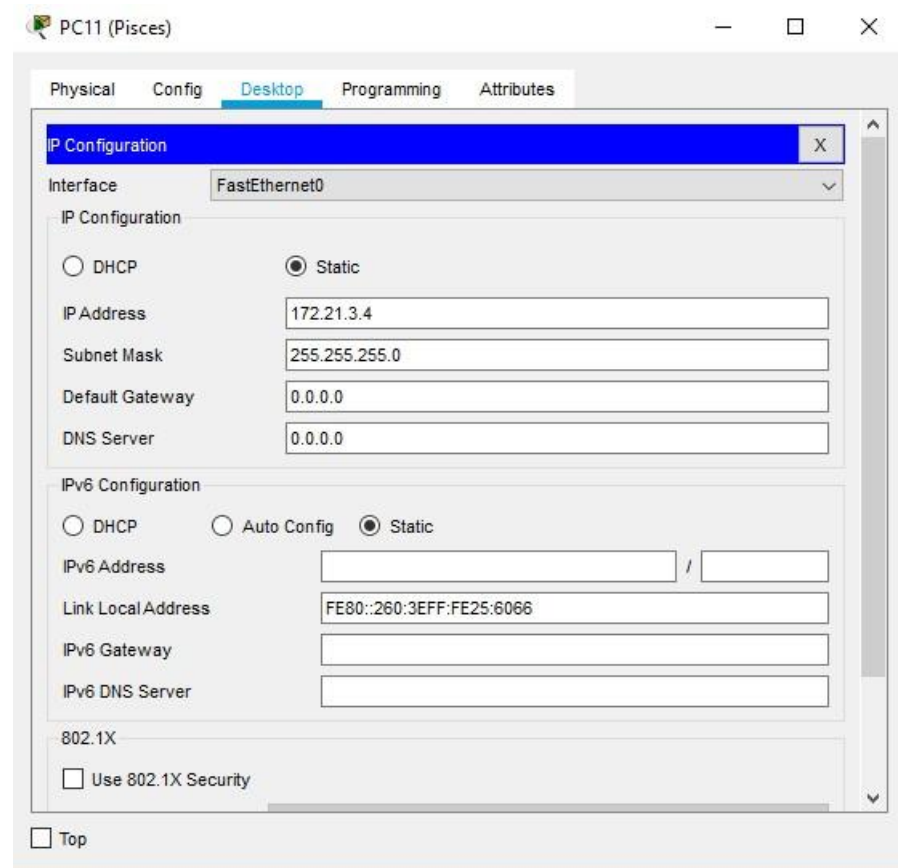
IPv6 DNS Server

802.1X

☐ Use 802.1X Security

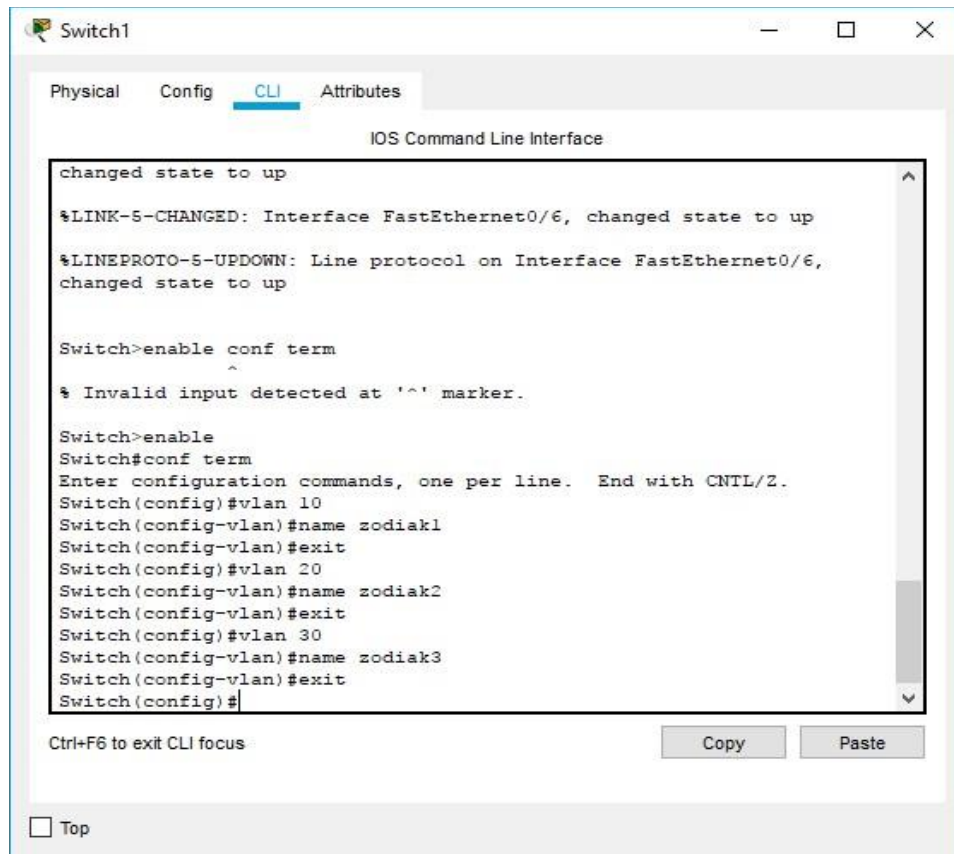
Top

- Pisces

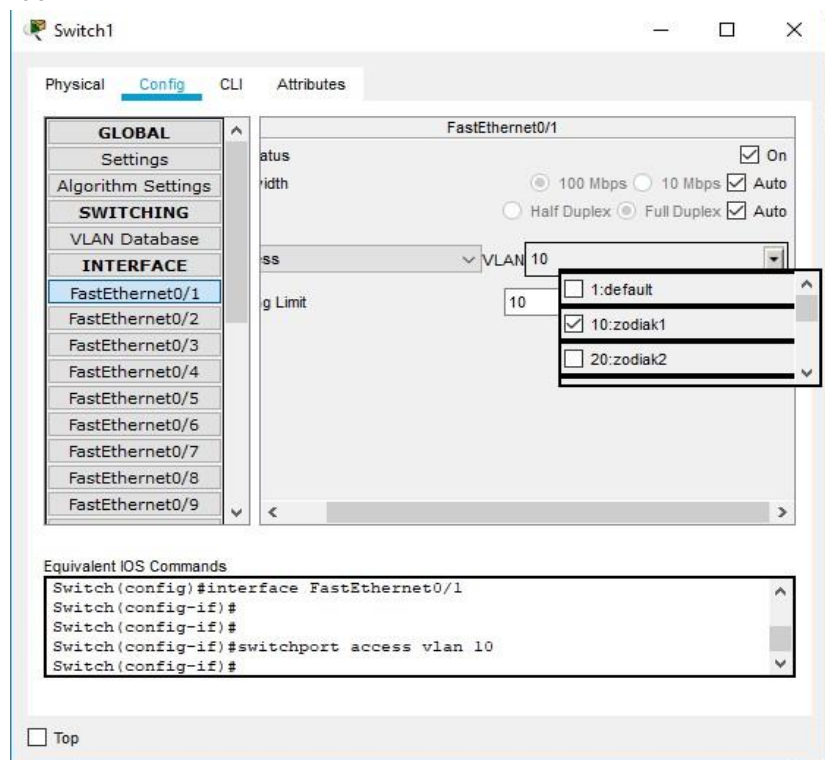


- Lakukan langkah 4 dan 5 kegiatan 1 untuk switch 1

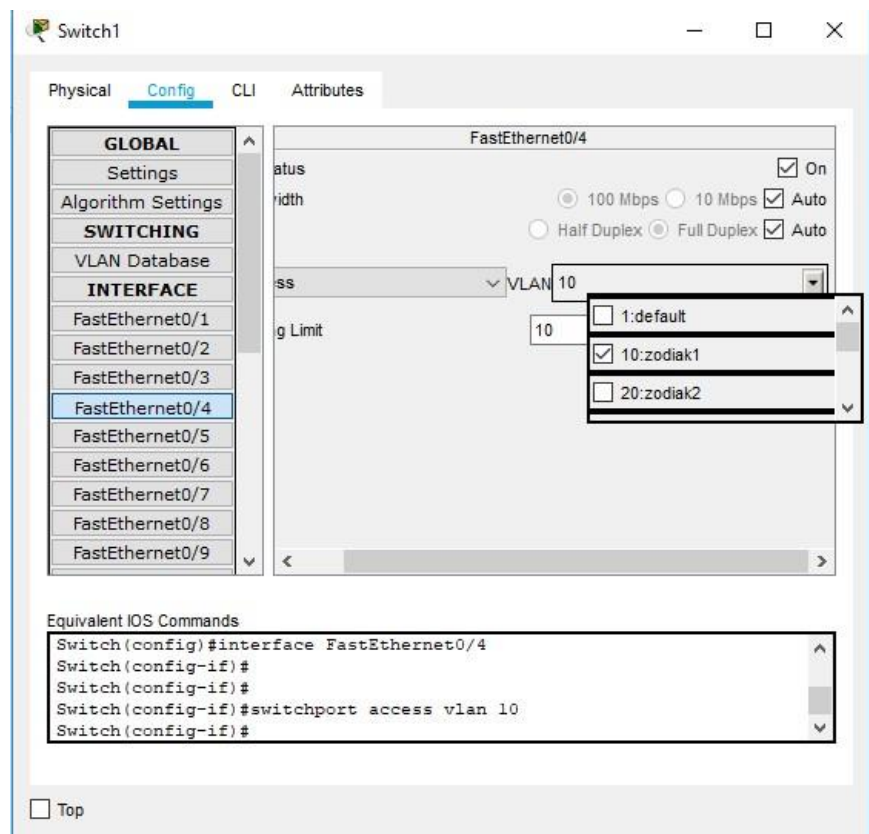
- Langkah 4 : Konfigurasi pada switch dengan mode user atau mode privilege, buat 3 VLAN dengan nama zodiak1, zodiak2, dan zodiak3. Dengan cara klik pada switch 2 kali, kemudian pilih cli.



- Langkah 5 : Pada mode configuration, konfigurasi port-port switch ke dalam vlan zodiak1, zodiak2, dan zodiak3 dengan anggota sebagai berikut.
 - Zodiak1 = leo dan libra
 - leo

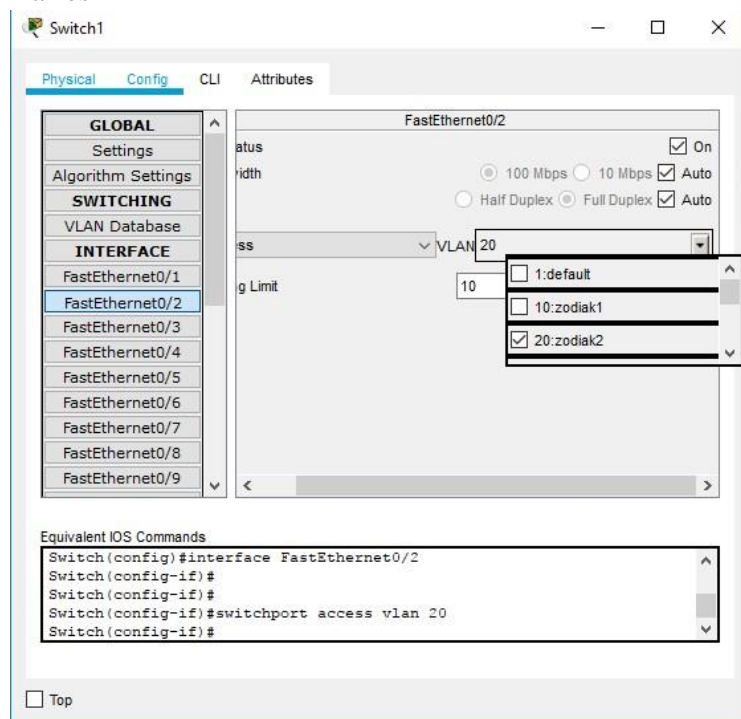


- libra

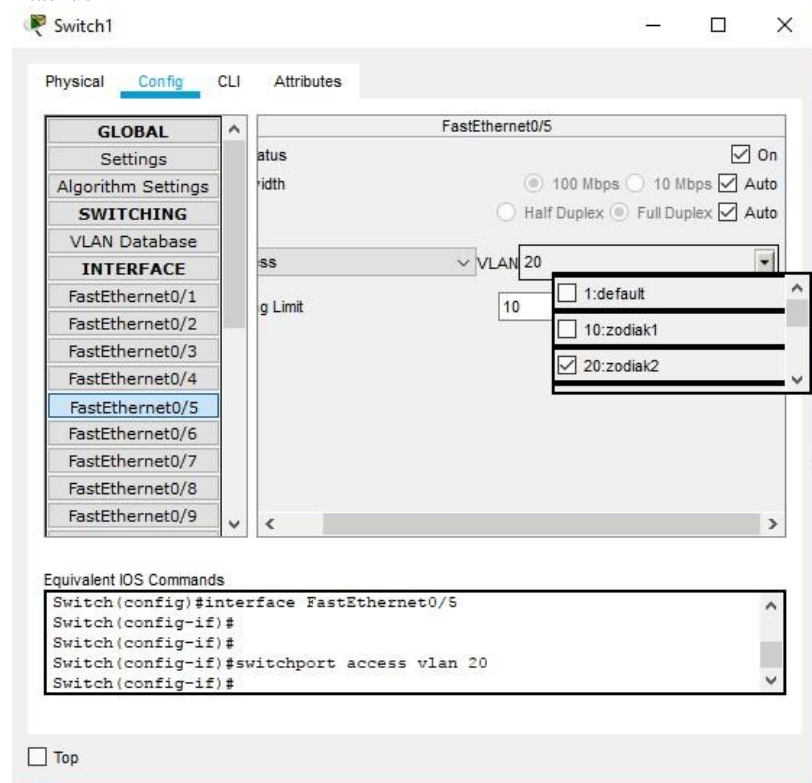


Zodiak2 = aries dan taurus

- aries

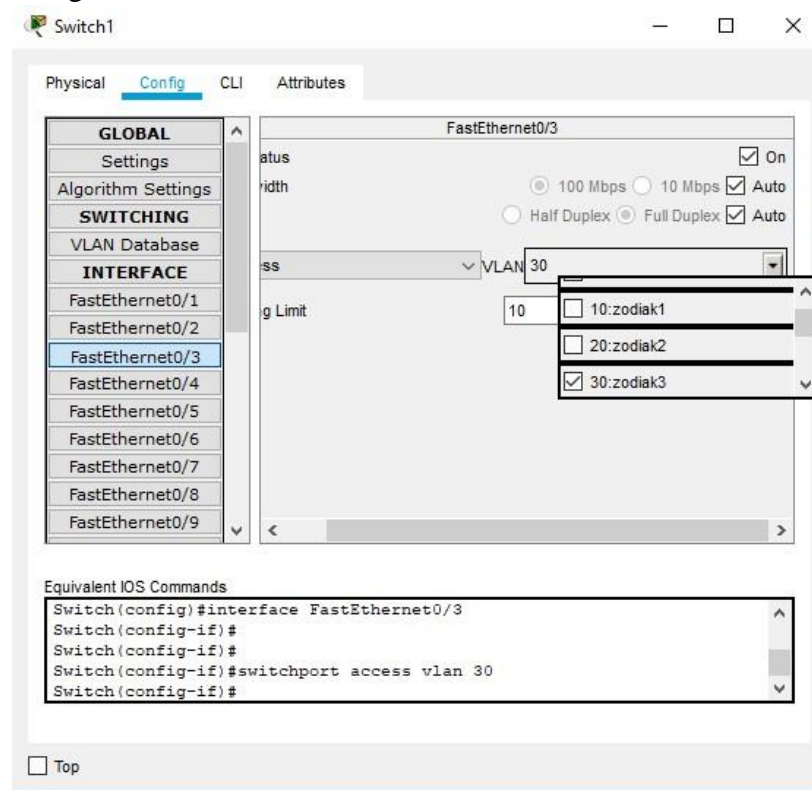


- taurus



Zodiak3 = virgo dan scorio

- virgo



- scorpio

Switch1

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/1

FastEthernet0/2

FastEthernet0/3

FastEthernet0/4

FastEthernet0/5

FastEthernet0/6

FastEthernet0/7

FastEthernet0/8

FastEthernet0/9

FastEthernet0/6

status ☒ On

speed

100 Mbps

10 Mbps

Auto

☒ Auto

duplex

Half Duplex

Full Duplex

☒ Auto

access vlan

VLAN 30

storm control limit

10

☐ 10:zodiak1

☐ 20:zodiak2

☒ 30:zodiak3

Equivalent IOS Commands

Switch(config)#interface FastEthernet0/6

Switch(config-if)#

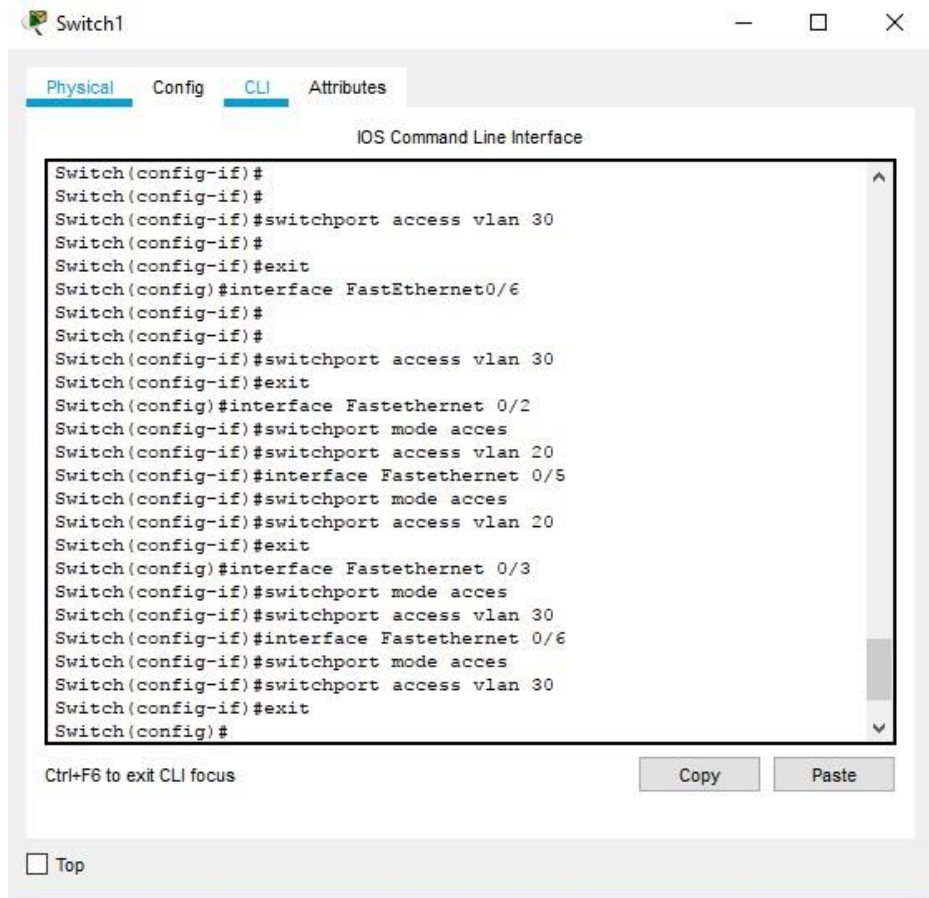
Switch(config-if)#

Switch(config-if)#switchport access vlan 30

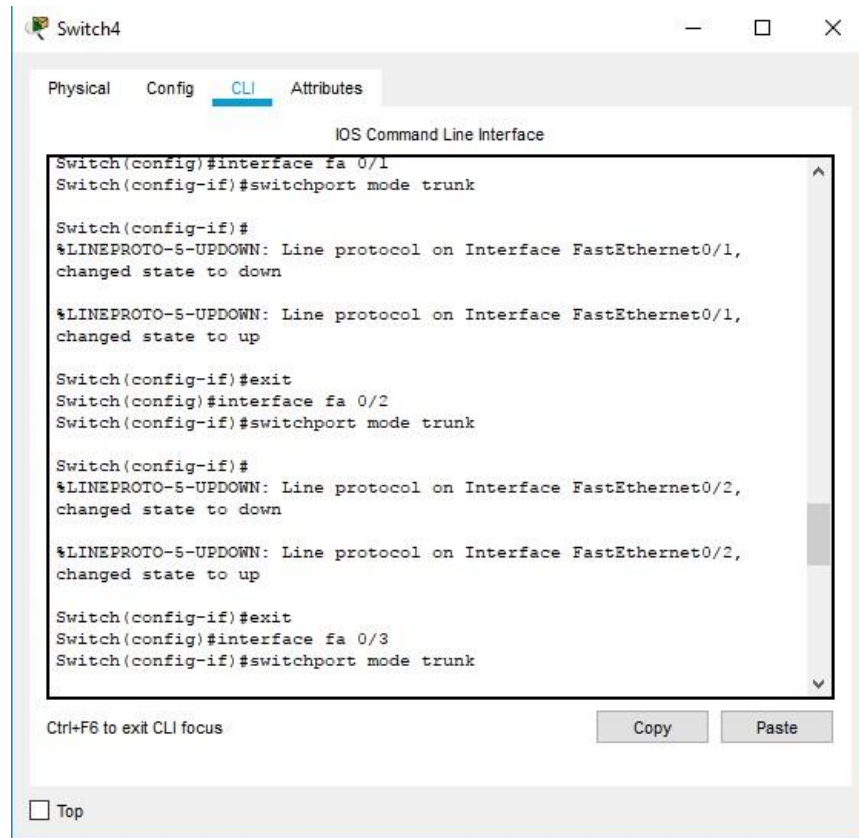
Switch(config-if)#

☐ Top

Langkah Pengoperasian :



Lakukan konfigurasi VLAN trunking pada switch 1. Langkah pengoperasian



Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

```
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)#interface fa 0/2
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to down

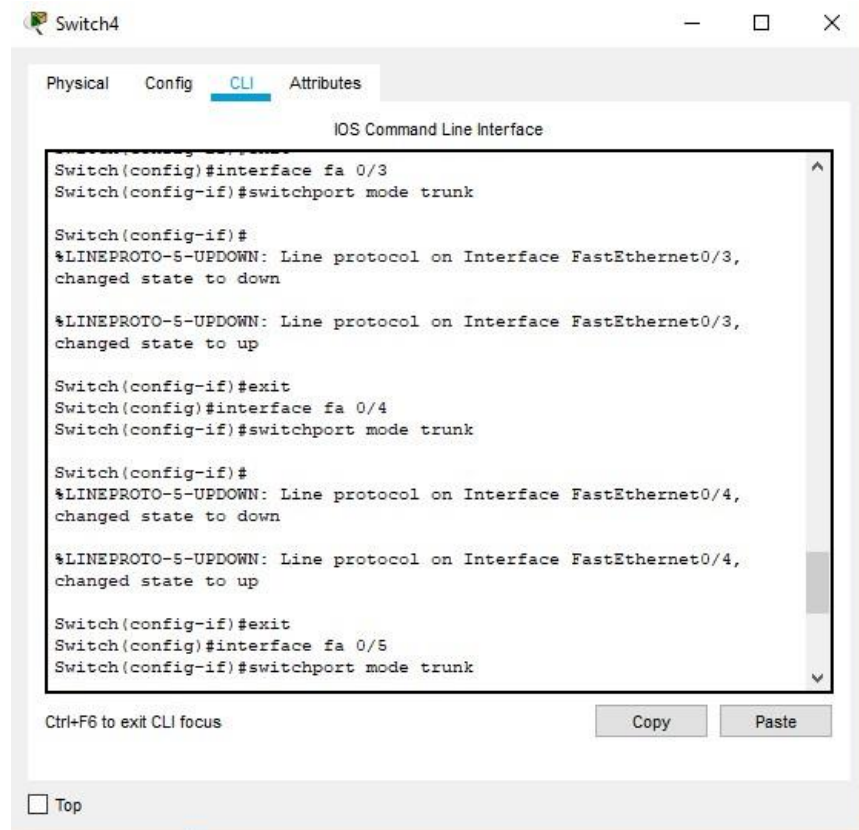
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to up

Switch(config-if)#exit
Switch(config)#interface fa 0/3
Switch(config-if)#switchport mode trunk
```

Ctrl+F6 to exit CLI focus

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Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch(config)#interface fa 0/3
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

Switch(config-if)#exit
Switch(config)#interface fa 0/4
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4,
changed state to down

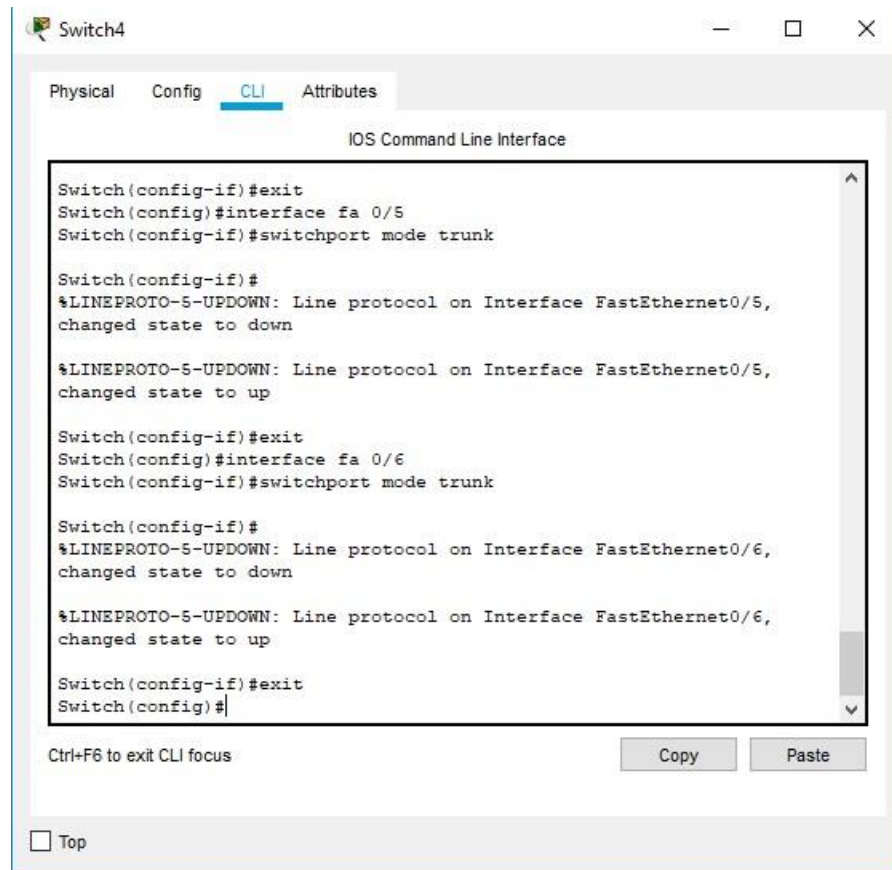
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4,
changed state to up

Switch(config-if)#exit
Switch(config)#interface fa 0/5
Switch(config-if)#switchport mode trunk
```

Ctrl+F6 to exit CLI focus

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- Pada mode user atau mode privileged, lihat konfigurasi trunking yang telah dibuat. Langkah pengoperasian untuk melihat konfigurasi
 - Tekan enter
 - Masukkan mode privileged
 - Ketik ***show interface fastethernet0/??switchport*** (?? Nomer port untuk trunking)
 - Keetik ***show interface trunk***
 - Ketik ***show vlan***
 - Melihat konfigurasi trunking pada fa 0/1, fa 0/2, fa 0/3, fa 0/4, fa 0/5, dan fa 0/6

Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#show interface fastethernet 0/2 switchport
Name: Fa0/2
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 20 (zodiak2)
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
```

Ctrl+F6 to exit CLI focus

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Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#show interface trunk
Port      Mode      Encapsulation  Status      Native vlan
Fa0/1     on        802.1q         trunking    1
Fa0/2     on        802.1q         trunking    1
Fa0/3     on        802.1q         trunking    1
Fa0/4     on        802.1q         trunking    1
Fa0/5     on        802.1q         trunking    1
Fa0/6     on        802.1q         trunking    1

Port      Vlans allowed on trunk
Fa0/1     1-1005
Fa0/2     1-1005
Fa0/3     1-1005
Fa0/4     1-1005
Fa0/5     1-1005
Fa0/6     1-1005

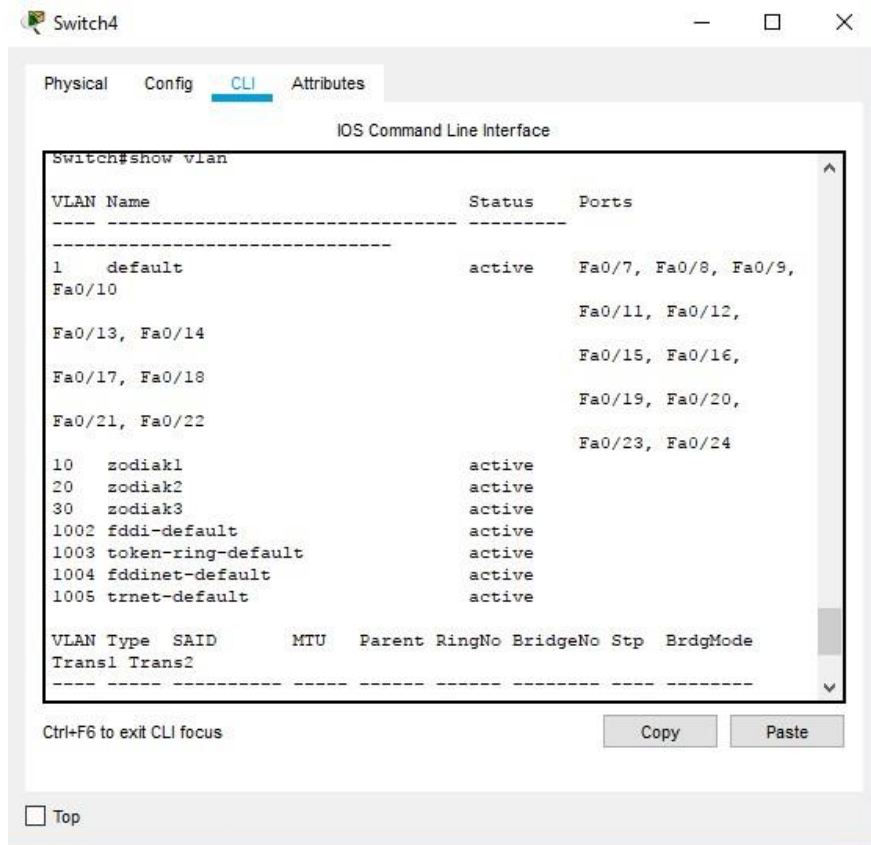
Port      Vlans allowed and active in management domain
Fa0/1     1,10,20,30
Fa0/2     1,10,20,30
Fa0/3     1,10,20,30
Fa0/4     1,10,20,30
Fa0/5     1,10,20,30

Switch#show vlan
```

Ctrl+F6 to exit CLI focus

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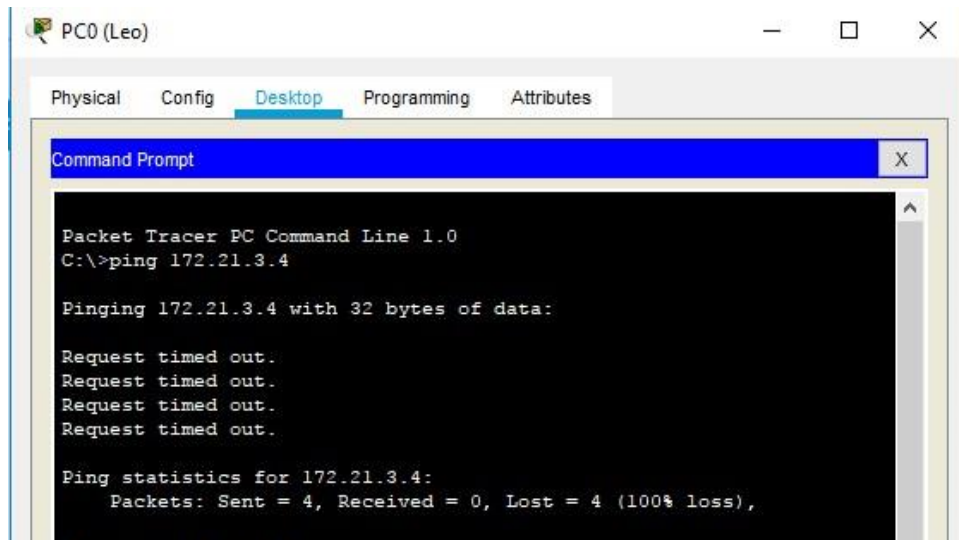
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Tugas 7A : Jelaskan secara singkat hasil yang anda peroleh dari langkah 7.

Jawab :

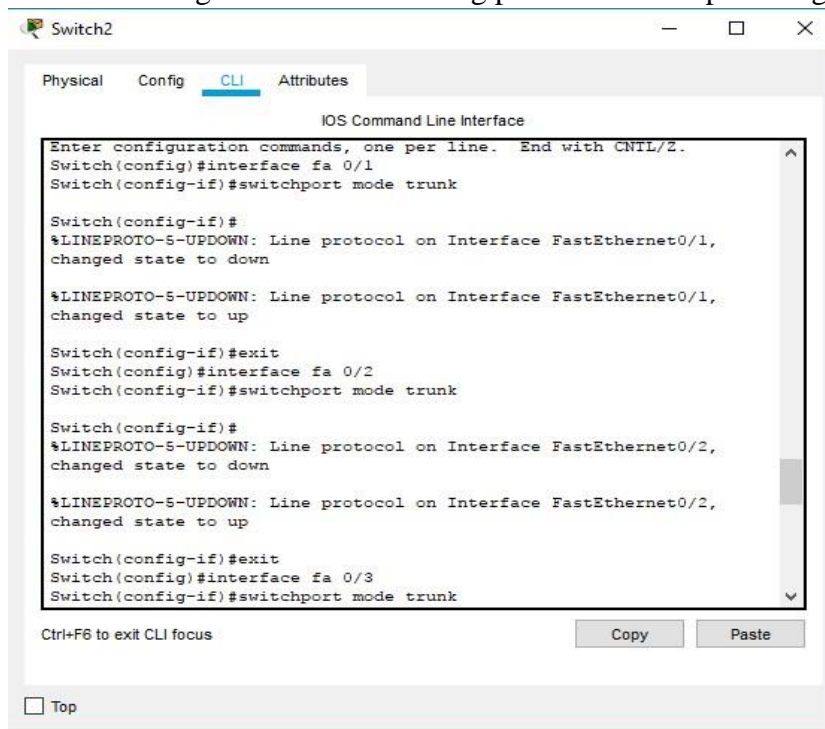
- ✓ Saat kita mengetikkan ***show interface fastheternet 0/??***(?? nomer port trunking) akan muncul status switchport trunk pada interface:
 - Administrative Mode. Merupakan switchport default yaitu trunk
 - Administrative Trunking Encapsulation. Merupakan enkapsulasi default yaitu dot1q.
 - Trunking Native Mode VLAN. Native VLAN default menggunakan VLAN1.
 - Capture VLANs Allowed. Secara default, semua VLAN dibolehkan masuk ke trunk port.
- ✓ Saat kita mengetikkan ***show interface trunk*** akan menampilkan status trunking dan semua VLAN dibolehkan masuk trunk.
- ✓ Saat kita mengetikkan ***show vlan*** berfungsi untuk mengecek status pada VLAN
- ✓ Lakukan ping dari PC leo ke PC pisces

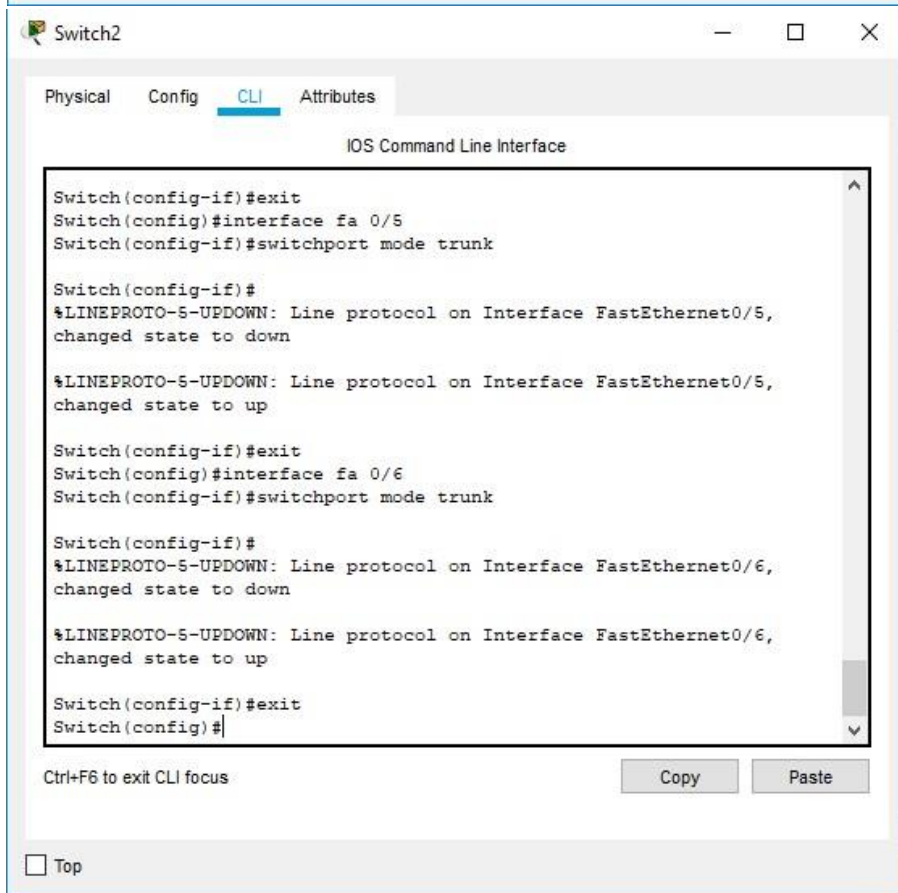
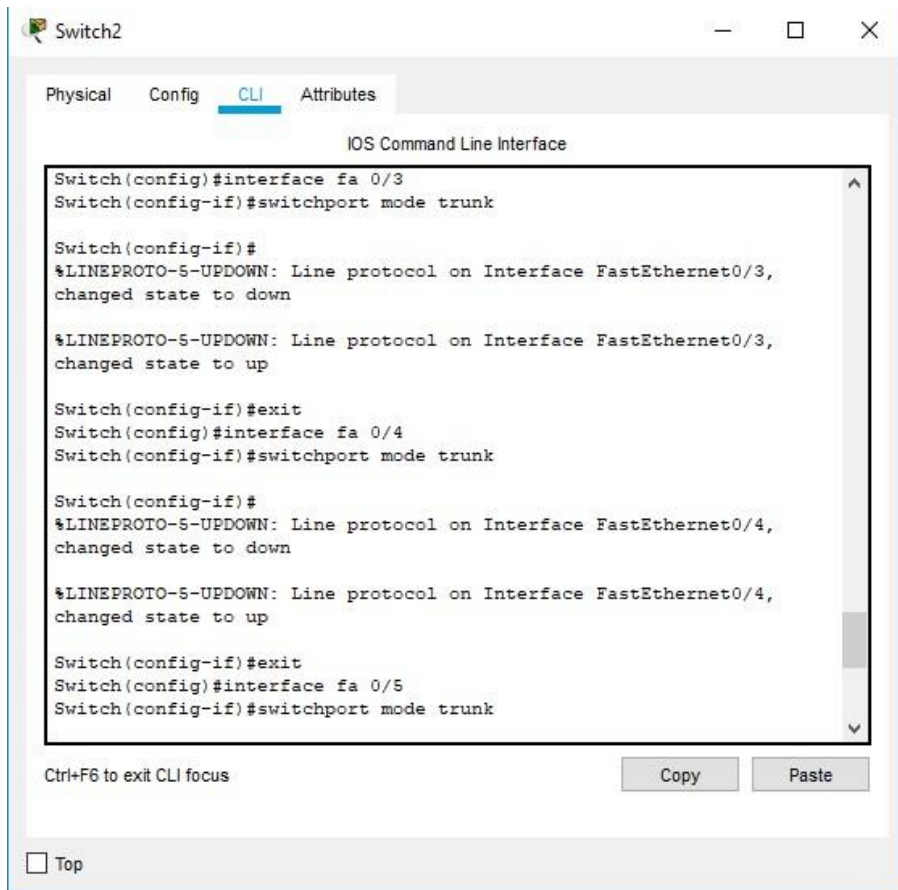


Tugas 8A : Jelaskan secara singkat mengapa hasil yang anda peroleh dari langkah 8 mendapatkan status “rto”?.

Jawab : Karena PC(leo) dan PC(pisces) berada pada VLAN dan jaringan yang berbeda.

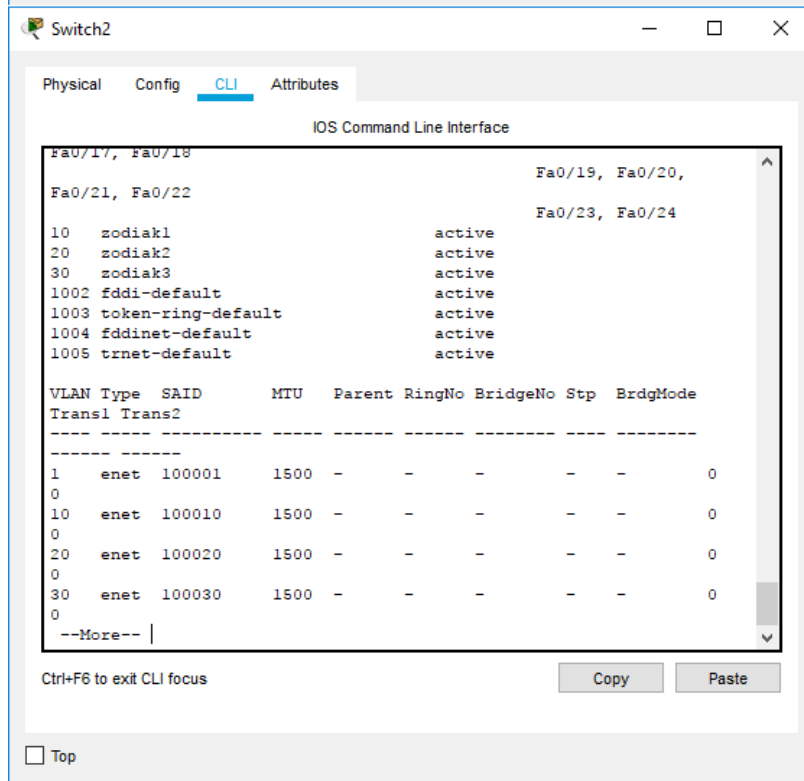
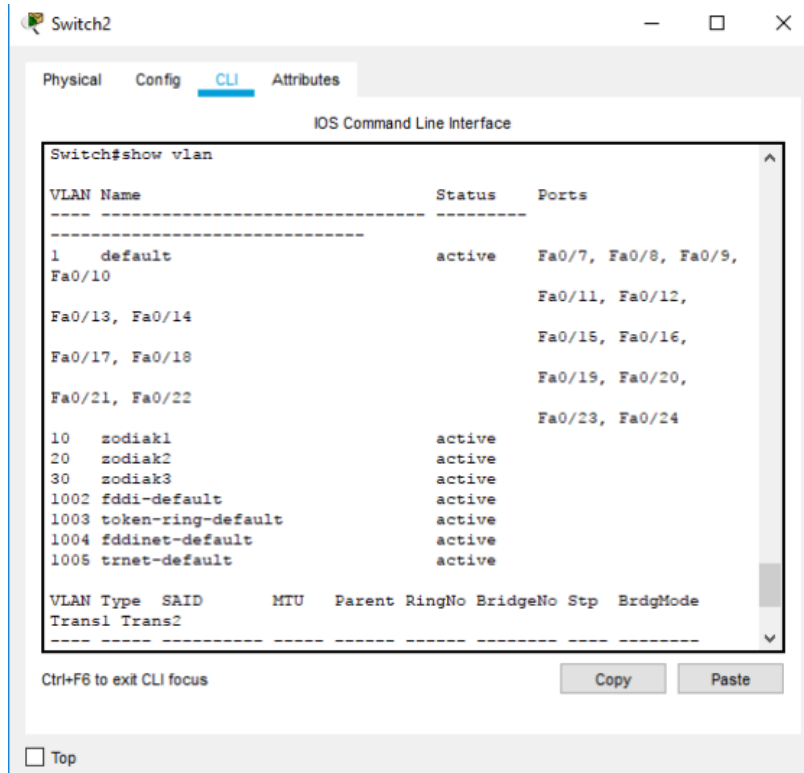
- Lakukan konfigurasi VLAN trunking pada switch 2 seperti langkah 6.





Pada mode user atau mode previligid, lihat konfigurasi vlan pada switch 2
Langkah pengoperasian untuk melihat konfigurasi

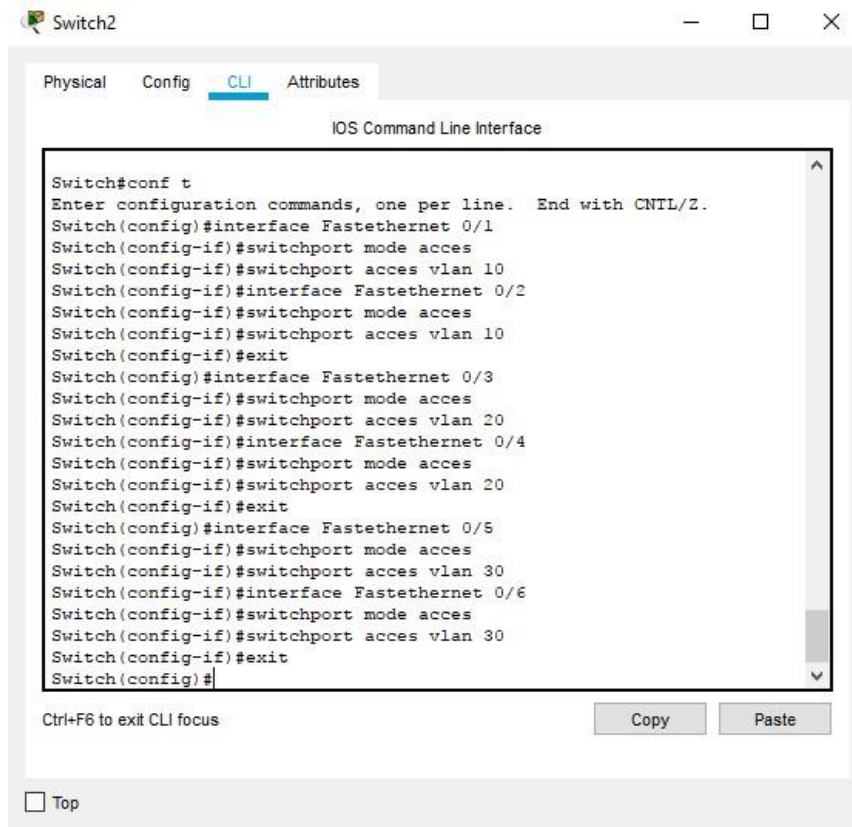
- Tekan enter
- Masuk mode previligid
- Ketik *show vlan*



Tugas 10 A: Jelaskan secara singkat hasil yang anda peroleh dari langkah 10.

Jawab : Berfungsi untuk mengecek status pada VLAN

- k. Pada mode configuration, konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, dan zodiak3 dengan anggota sebagai berikut:
- zodiak1 = aquarius dan Gemini
 - zodiak2 = cancer dan sagitarius
 - zodiak3 = capriconus dan pisces



- i. Lakukan ping dari PC leo ke PC aries, PC leo ke PC aquarius, PC leo ke PC pisces, PC libra ke PC cancer, dan PC libra ke PC leo.
- PC leo ke PC aries

PC0 (Leo)

Physical Config **Desktop** Programming Attributes

Command Prompt

```
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:

Reply from 172.21.1.2: bytes=32 time=12ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms
```

PC leo ke PC aquarius

PC0 (Leo)

Physical Config **Desktop** Programming Attributes

Command Prompt

```
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

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

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC lo eke PC pisces

PC0 (Leo)

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

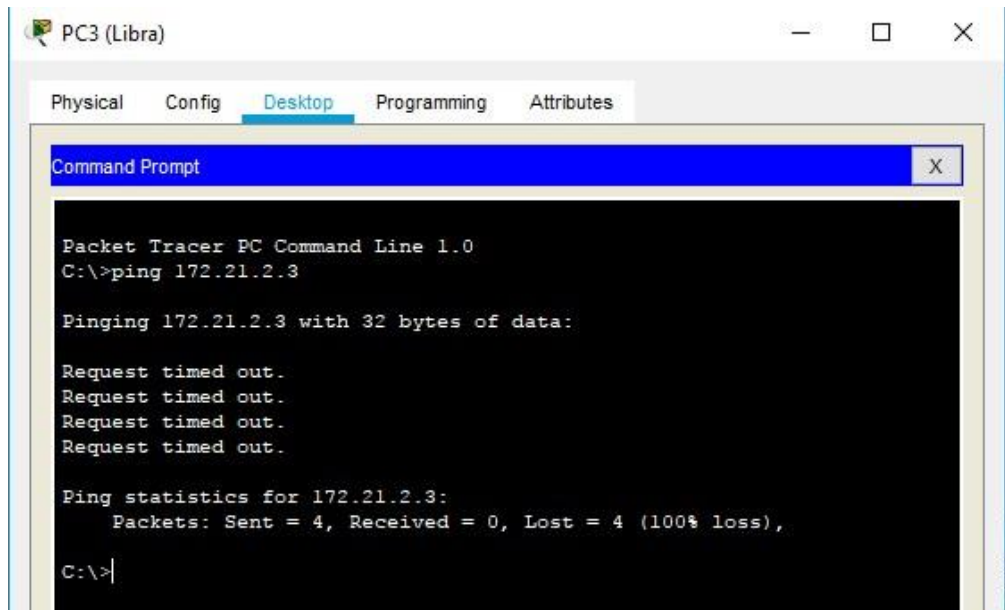
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

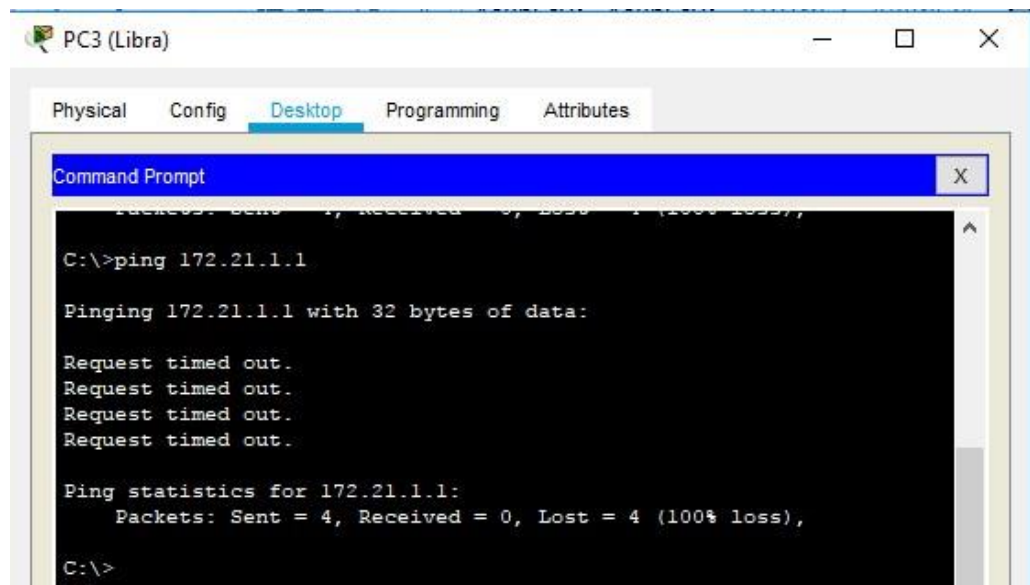
Reply from 172.21.1.2: bytes=32 time=12ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms
```

PC libra ke PC cancer



PC libra ke PC leo



Tugas 12A : Jelaskan secara singkat hasil yang anda peroleh dari langkah 8.

Jawab : Bahwa akan mendapat hasil reply apabila pc berada pada jaringan dan VLAN yang sama. Apabila hanya sama dari salah satu VLAN atau jaringan maka hasilnya juga akan rto.