

Nama : Sukma Nindi Listyarini

Kelas : D

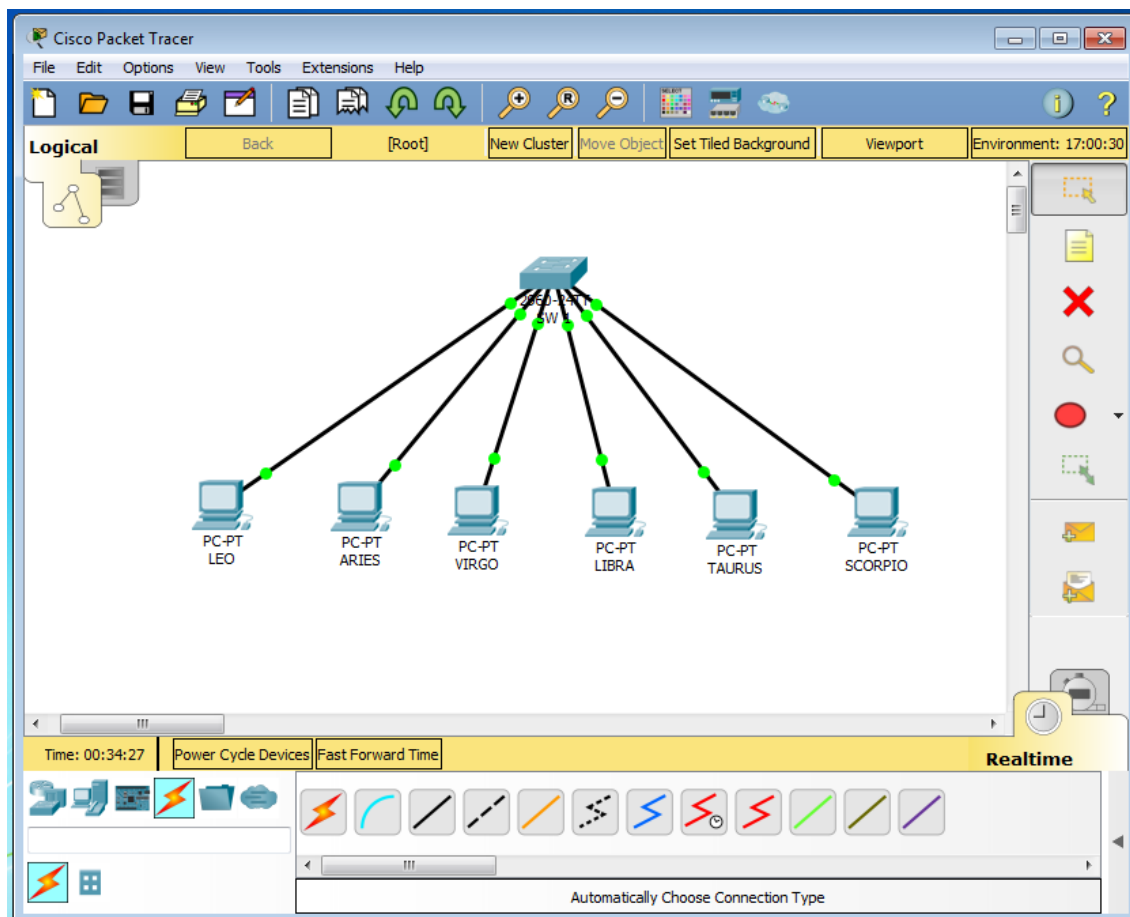
Nim : L200170147

Laporan Praktikum

MODUL 4

Kegiatan 1

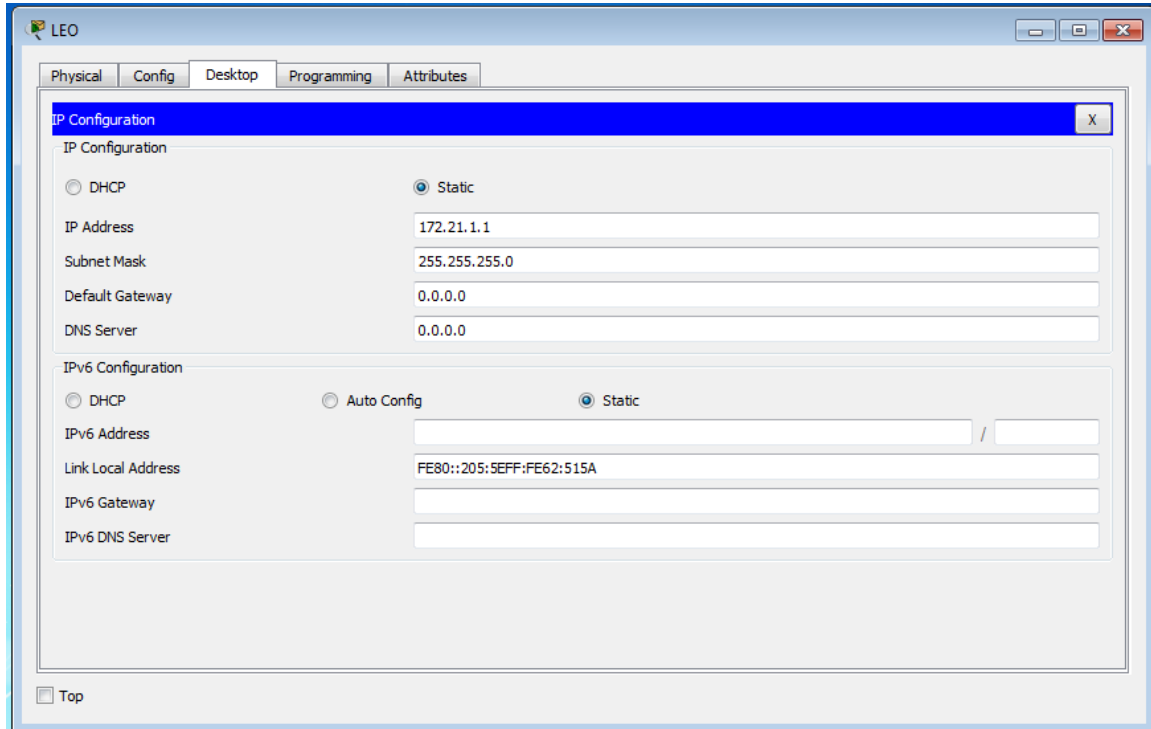
1. Membuat topologi berikut ini menggunakan packet tracer
2. Memberi nama masing masing perangkat
 - a. Switch : SW
 - b. Pc1 : Leo
 - c. Pc2 : Aries
 - d. Pc3 : Virgo
 - e. Pc4 : Libra
 - f. Pc5 : Taurus
 - g. Pc6 : Scorpio



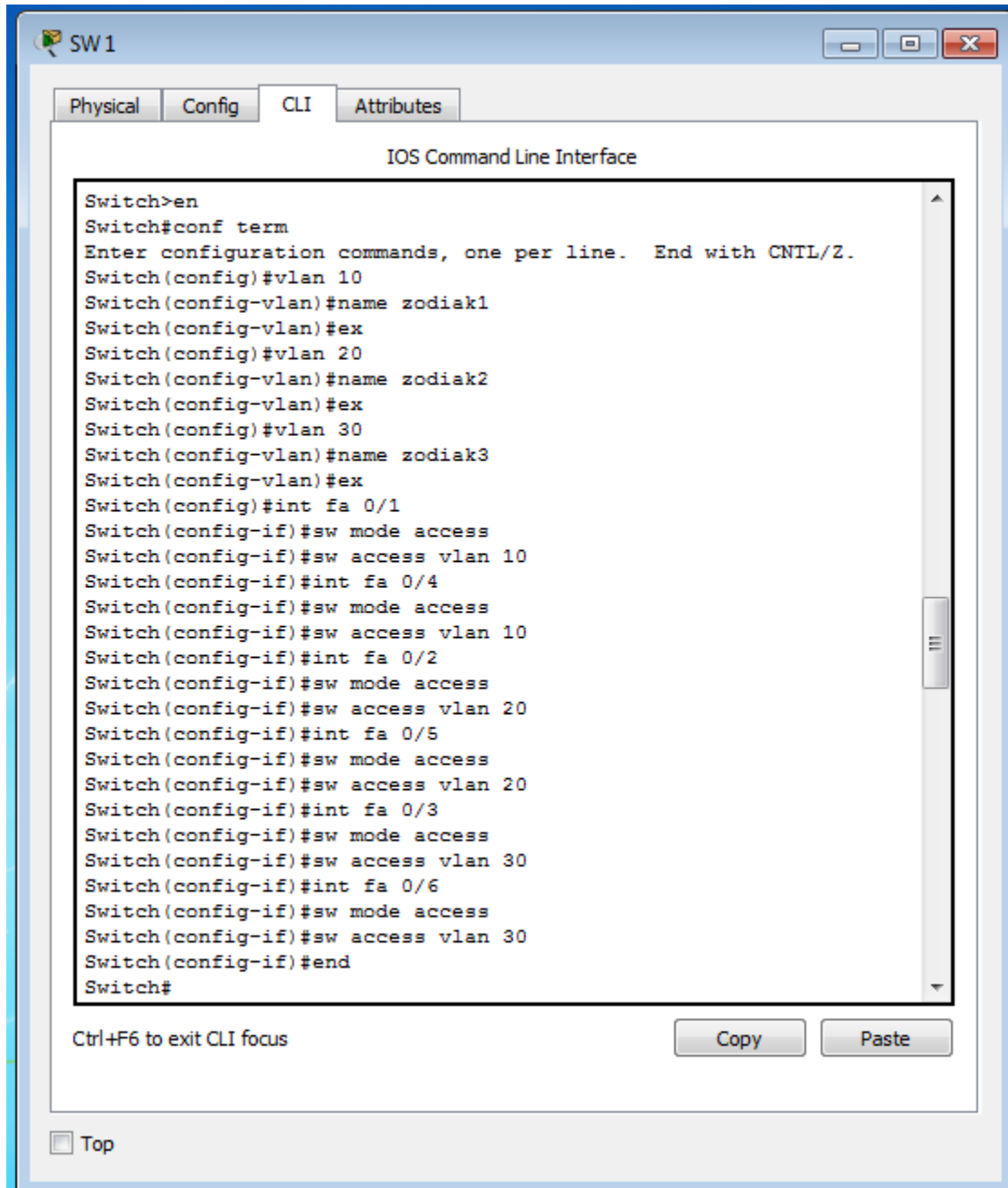
3. Merubah konfigurasi tiap PC

- a. Leo : 172.21.1.1/24
- b. Aries : 172.21.1.2/24
- c. Virgo : 172.21.1.3/24
- d. Libra : 172.21.1.4/24
- e. Taurus : 172.21.1.5/24
- f. Scorpio : 172.21.1.6/24

/24 maksudnya adalah masuk kelas c



4. Membuat 3 buah VLAN dengan nama zodiak1, zodiak2, dan zodiak3
5. Selanjutnya pada mode konfigurasi, kelompokkan port-port switch kedalam VLAN zodiak1, zodiak2, dan zodiak3. Pengaturannya sebagai berikut :
 - Zodiak1 : leo dan libra
 - Zodiak2 : aries dan Taurus
 - Zodiak3 : virgo dan scorpio

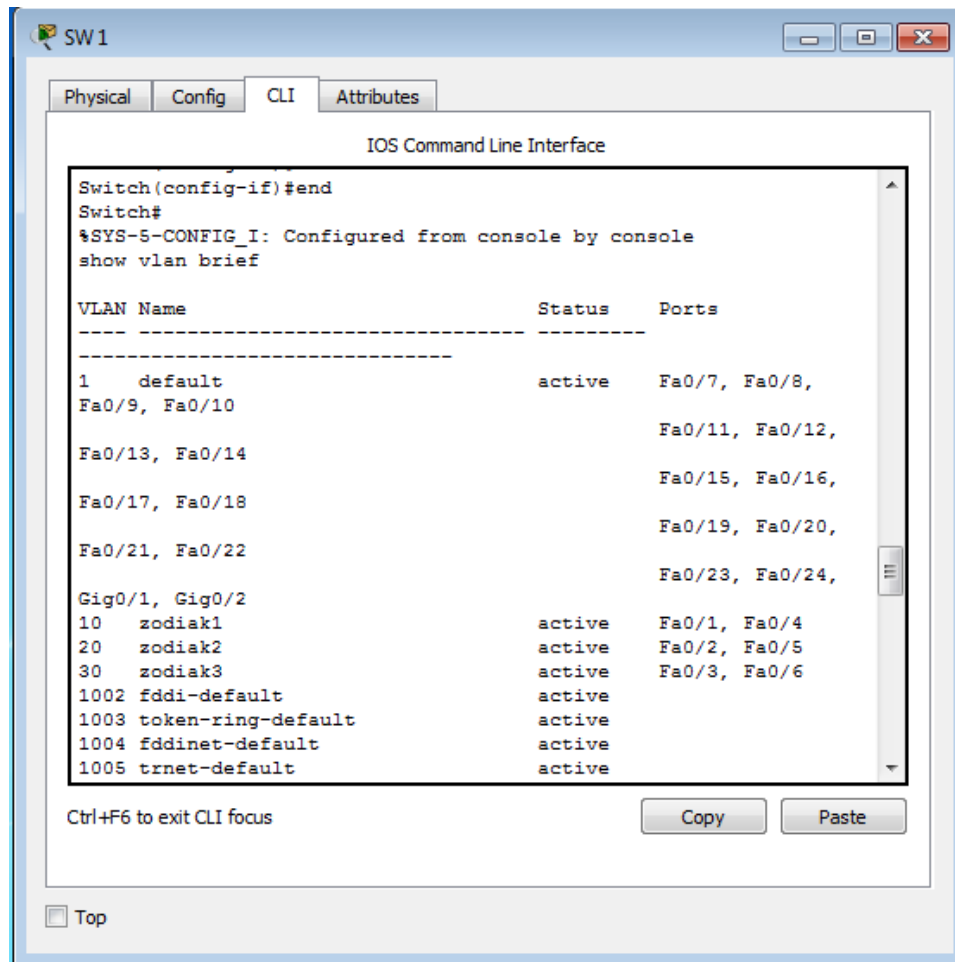


```
SW 1
Physical Config CLI Attributes
IOS Command Line Interface

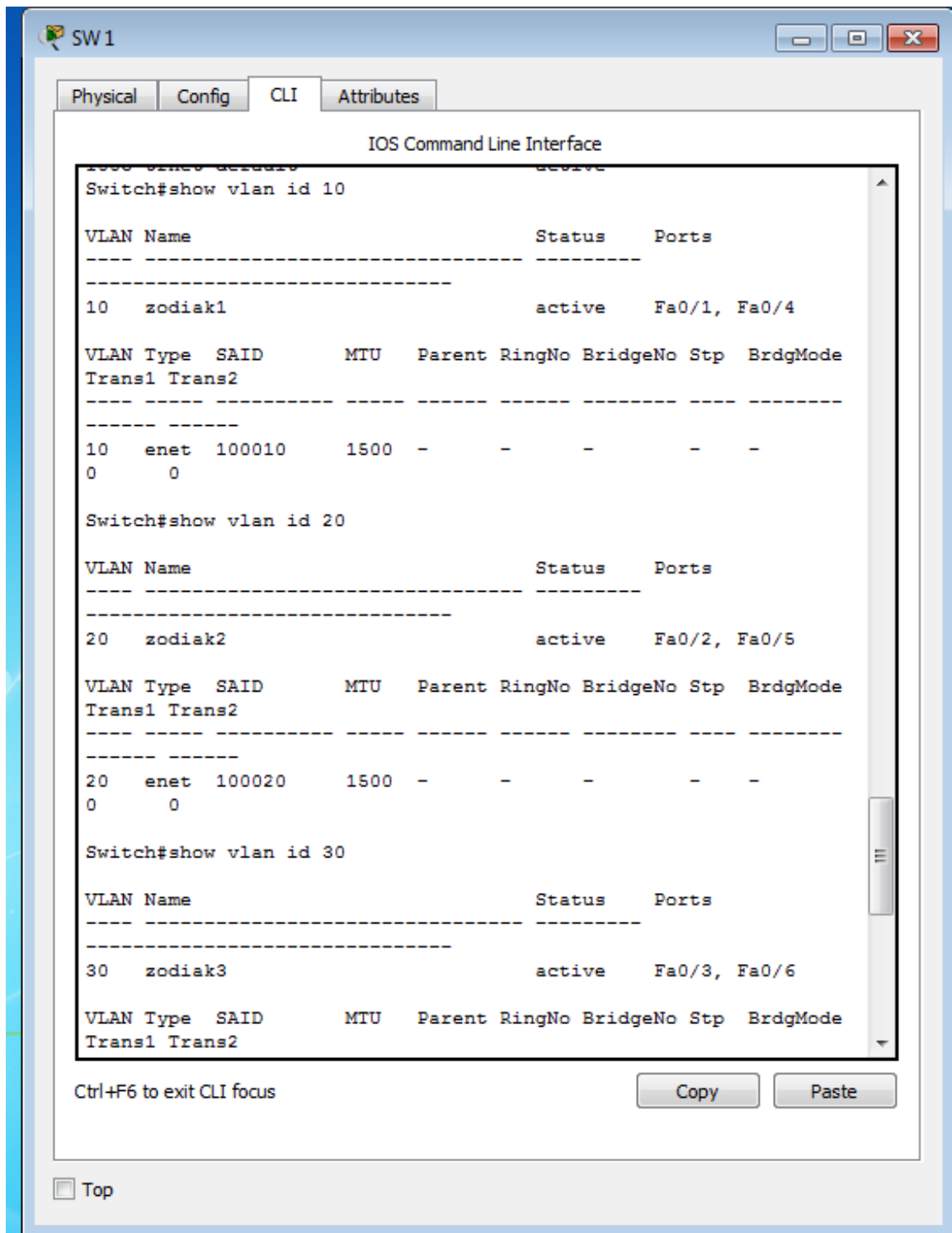
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#ex
Switch(config)#vlan 20
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#ex
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#ex
Switch(config)#int fa 0/1
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/4
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/2
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/5
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/3
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
Switch(config-if)#int fa 0/6
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
Switch(config-if)#end
Switch#

Ctrl+F6 to exit CLI focus
Copy Paste
Top
```

6. Menampilkan informasi VLAN secara keseluruhan

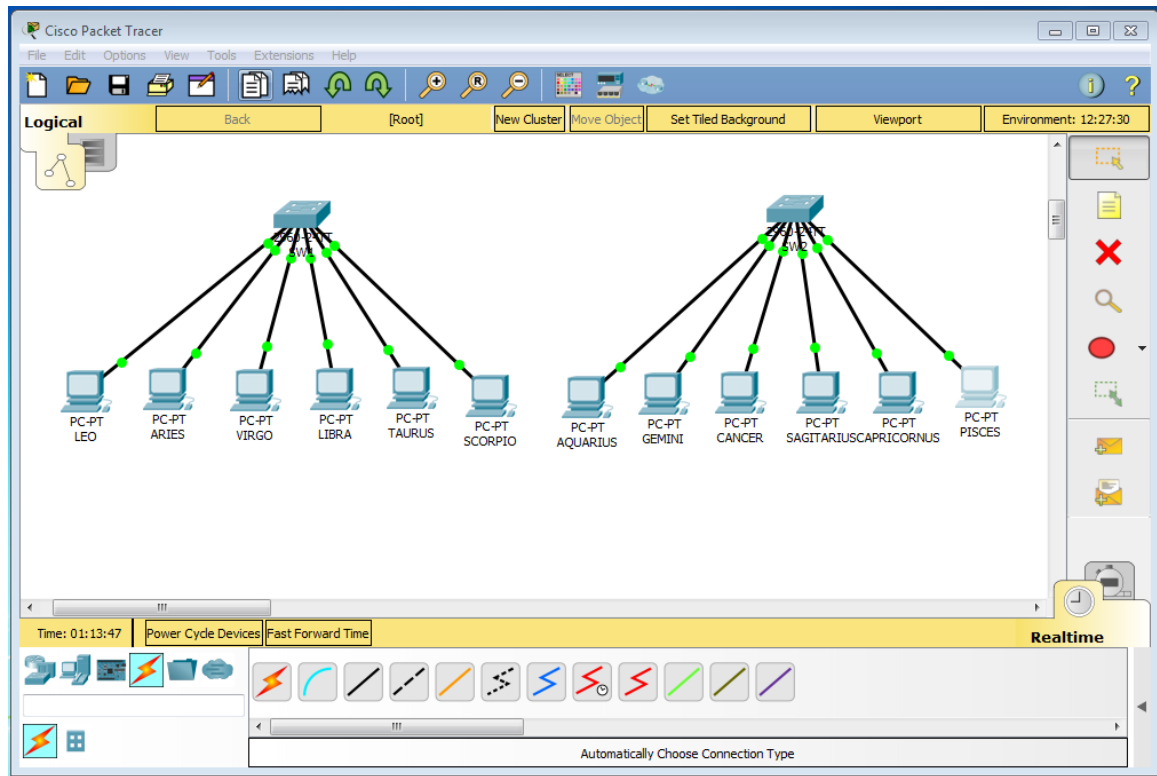


7. Menampilkan informasi VLAN 10, 20, dan 30



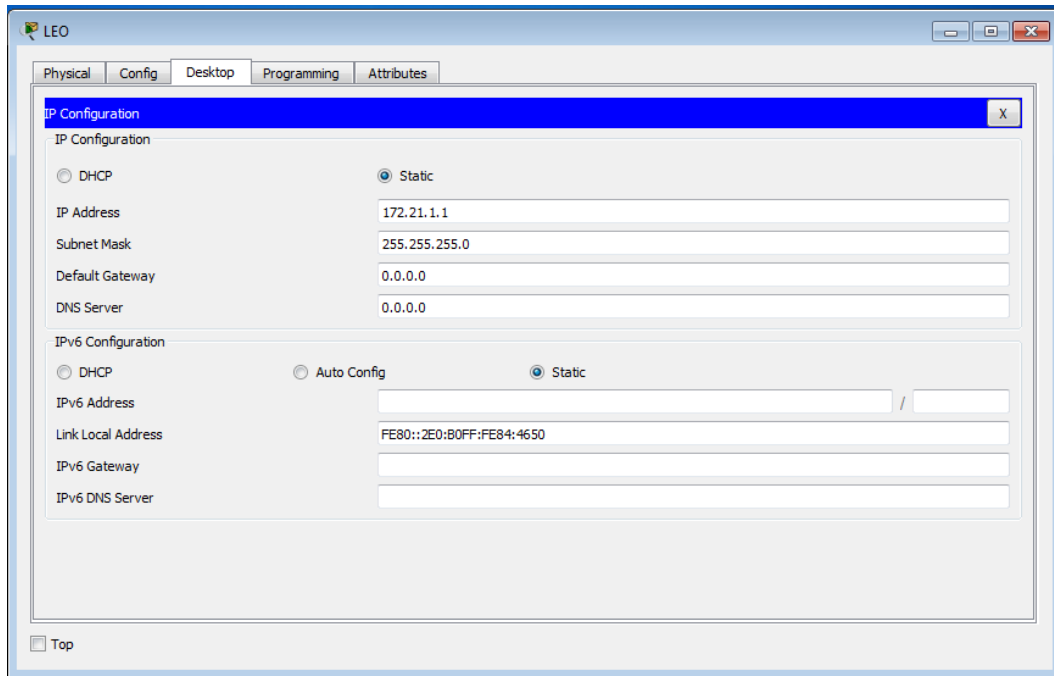
Kegiatan 2

1. Membuat topologi dibawah ini menggunakan cisco packet tracer
2. Memberi nama masing-masing perangkat yang ada pada switch 1 sesuai dengan nama-nama yang telah ditentukan.
3. Memberi nama masing-masing perangkat yang ada pada switch 2 sesuai dengan nama-nama yang telah ditentukan.

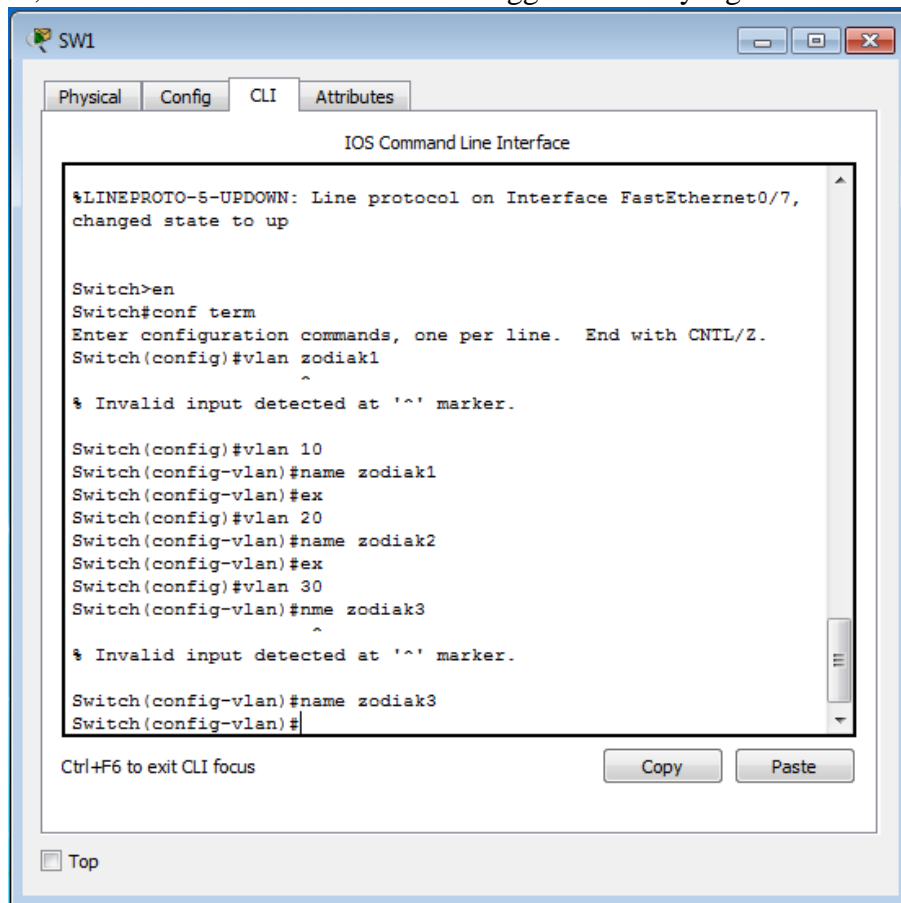


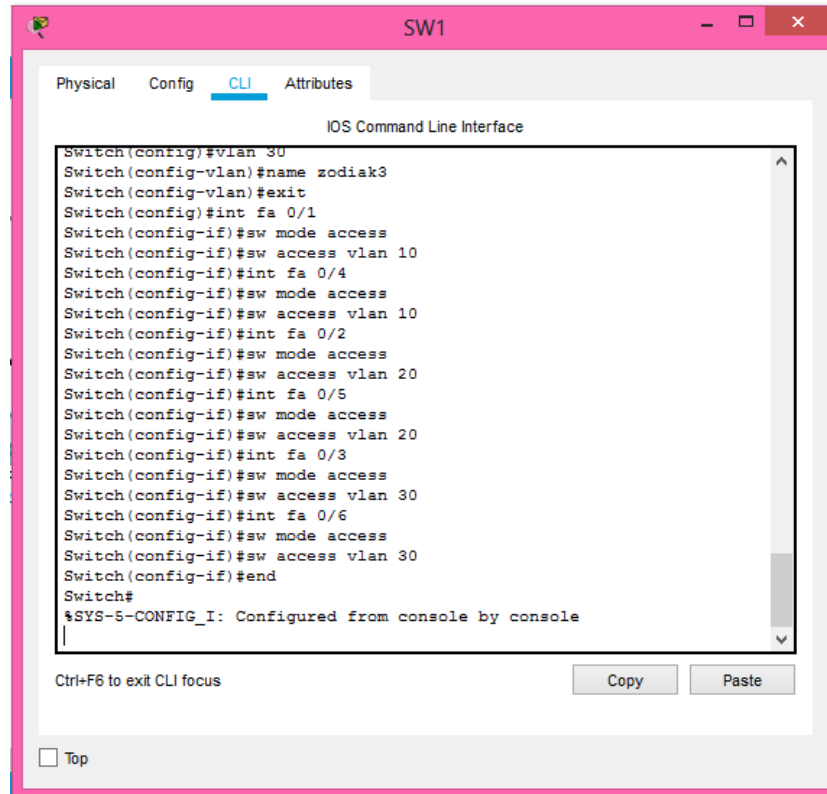
4. Mengkonfigurasi masing-masing PC dengan nama dsn alamat IP berikut

Switch 1		Switch 2	
Nama PC	Ip Address	Nama PC	Ip Address
Leo	172.21.1.1/27	Aquarius	172.21.1.3/27
Aries	172.21.1.2/27	Gemini	172.21.1.4/27
Virgo	172.21.2.1/27	Cancer	172.21.2.3/27
Libra	172.21.2.2/27	Sagitarious	172.21.2.4/27
Taurus	172.21.3.1/27	Capricornus	172.21.3.3/27
Scorpio	172.21.3.2/27	Pisces	172.21.3.4/27

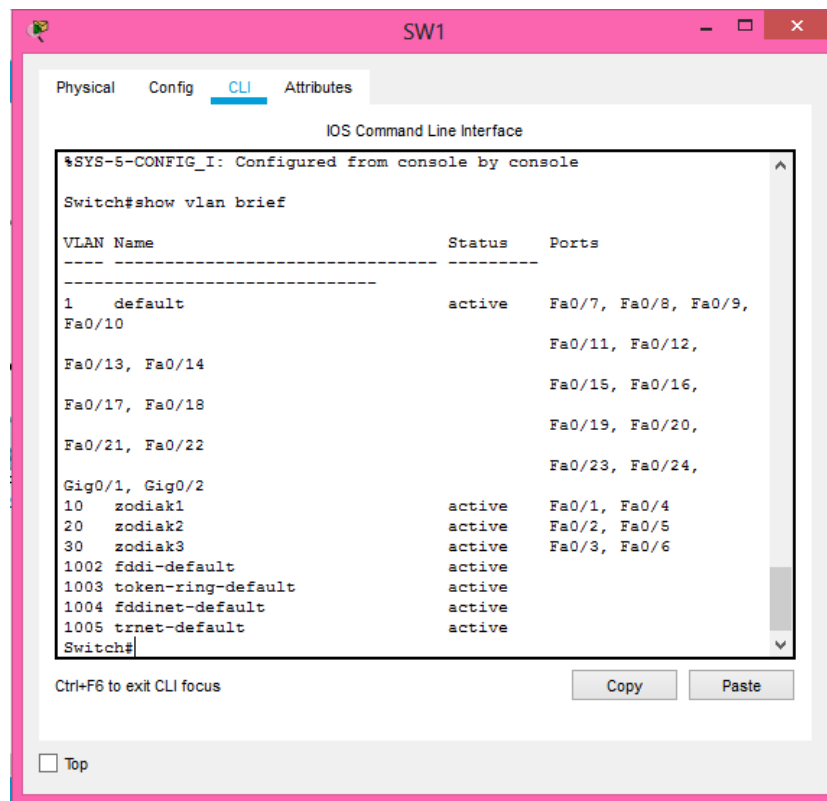


5. Konfigurasi switch dengan mode privileged. Membuat 3VLAN dengan nama zodiak1, zodiak2,zodiak3. Kemudian memasukkan anggota zodiak yang telah ditentukan.





Melihat konfigurasi yang telah dibuat



Menampilkan informasi untuk setiap VLAN, dengan menggunakan VLAN id.

The screenshot shows the CLI interface of a switch named SW1. The 'CLI' tab is selected. The interface displays the output of the 'show vlan id' command for VLANs 10, 20, and 30. Each output includes a table with VLAN details and a detailed table with various attributes.

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#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#show vlan id 30

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

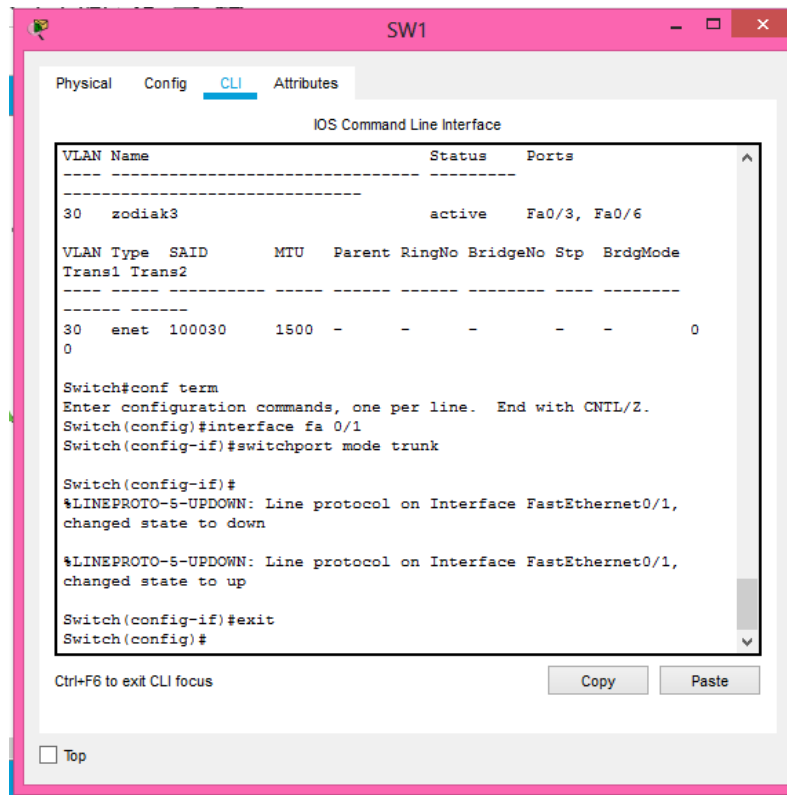
VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Trans1	Trans2						
30							
0							

Ctrl+F6 to exit CLI focus

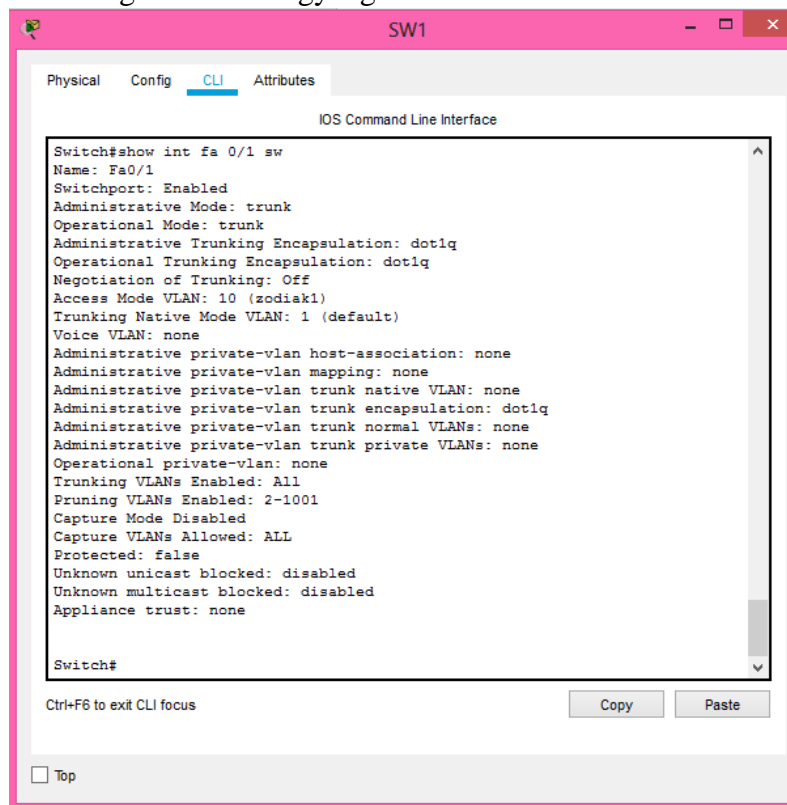
Copy Paste

☐ Top

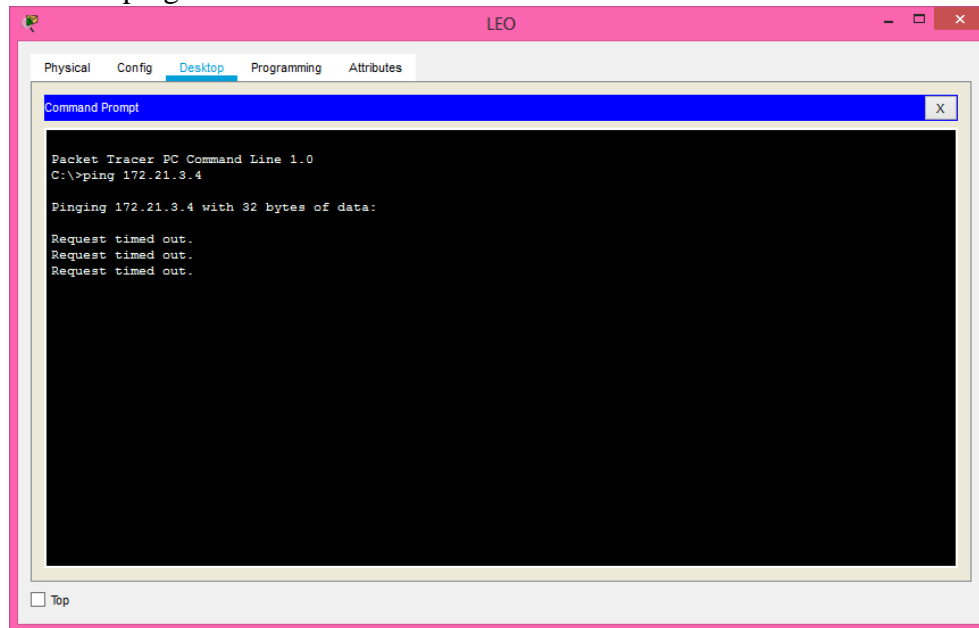
6. Melakukan konfigurasi VLAN trunking pada switch 1



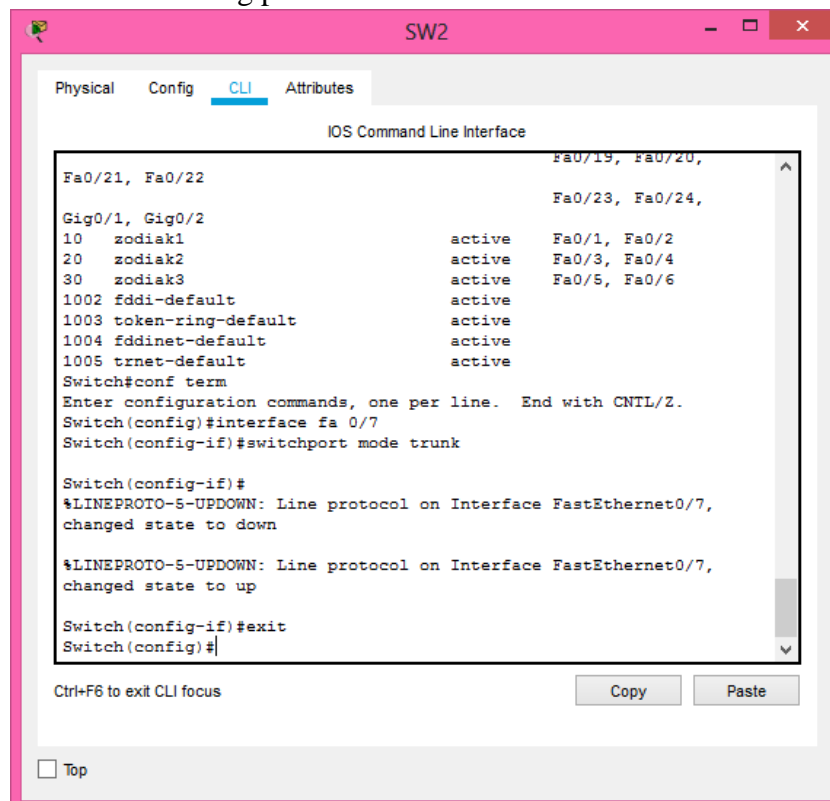
7. Melihat hasil konfigurasi trunking yang telah dibuat



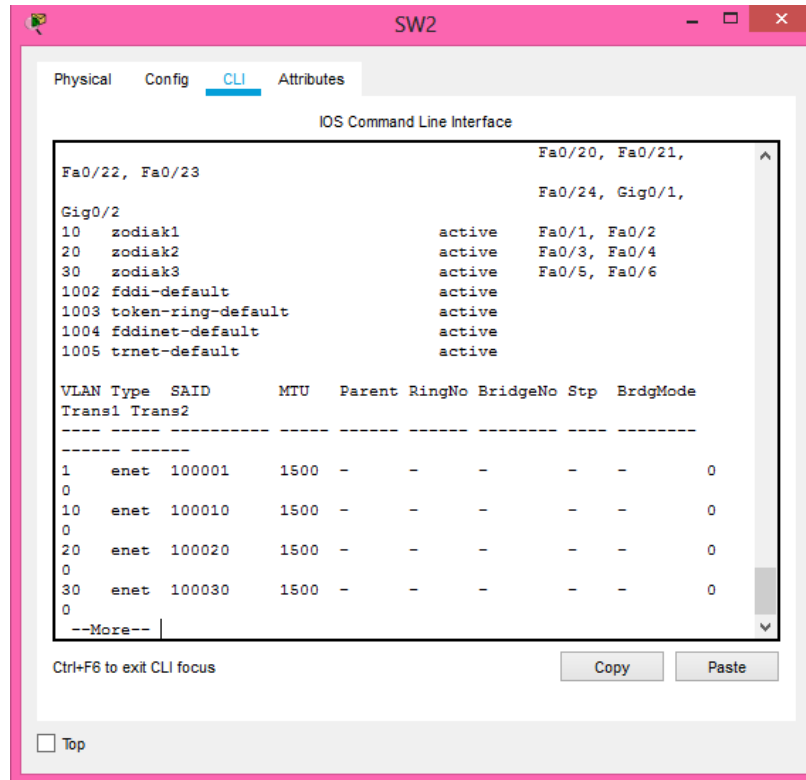
8. Melakukan ping dari PC Leo ke PC Pisces



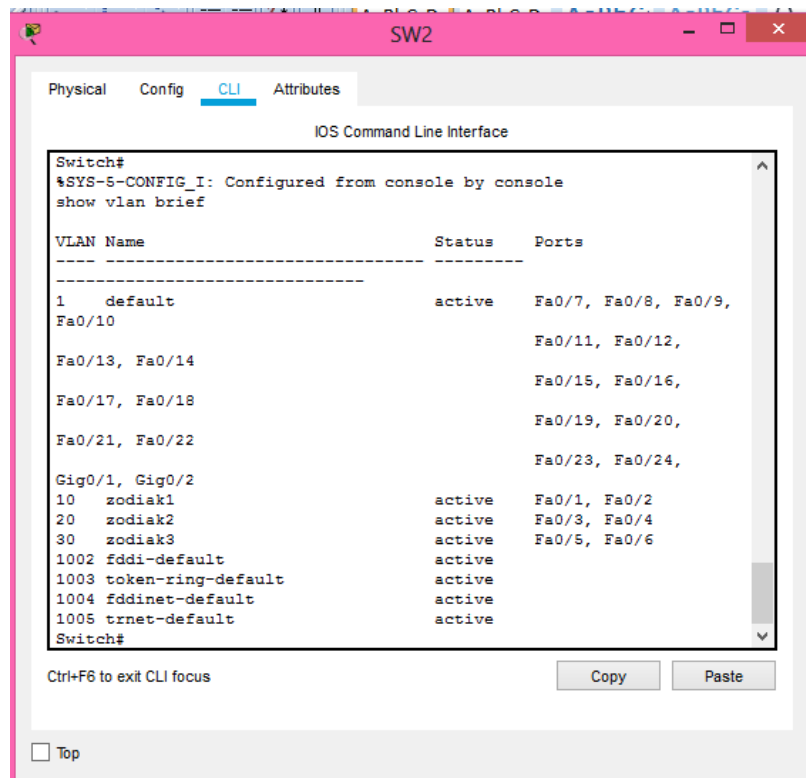
9. Melakukan VLAN trunking pada switch 2



10. Melihat konfigurasi VLAN pada switch 2



11. Melakukan konfigurasi port-port Swich 2 ke dalam VLAN zodiak1, zodiak2, dan zodiak3.



12. Melakukan Ping

- a) PC Leo ke PC Aries
- b) PC Leo ke Aquarius
- c) PC Leo ke Pisces
- d) PC Libra ke Cancer
- e) PC Libra ke Leo

The screenshot shows the Packet Tracer PC Command Line 1.0 interface. The 'Desktop' tab is selected. The command prompt displays the following text:

```
Packet Tracer PC Command Line 1.0
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:\>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),

C:\>ping 172.21.3.4
```

At the bottom left, there is a checkbox labeled 'Top' which is currently unchecked.

The screenshot shows the Packet Tracer PC Command Line 1.0 interface. The 'Desktop' tab is selected. The command prompt displays the following text:

```
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:

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),

C:\>ping 172.21.3.4

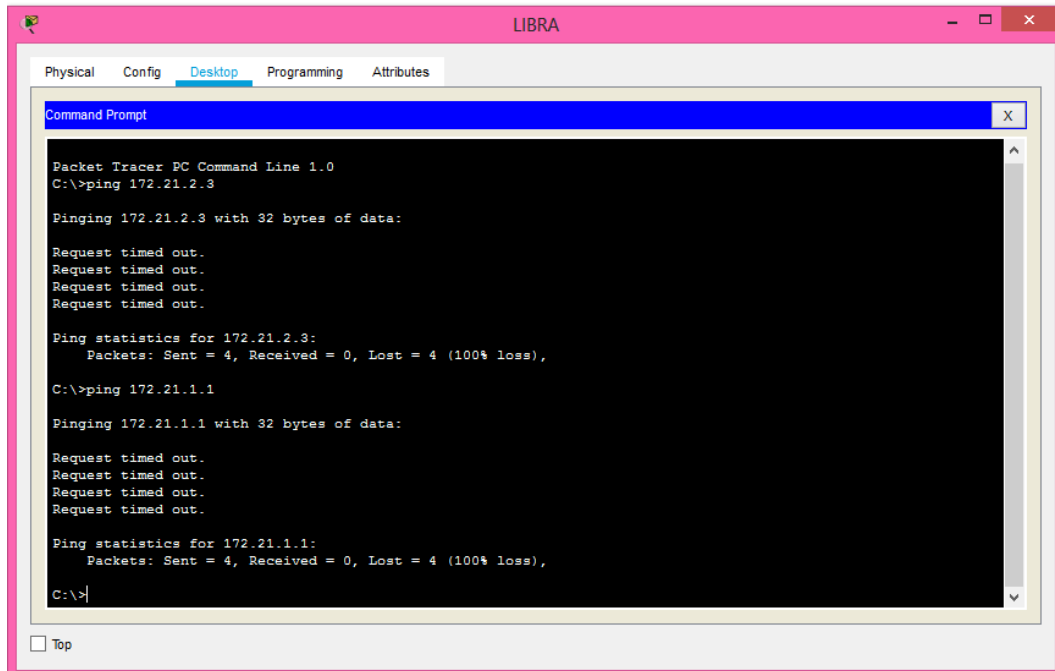
Pinging 172.21.3.4 with 32 bytes of data:

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 172.21.2.3
```

At the bottom left, there is a checkbox labeled 'Top' which is currently unchecked.



Setelah melakukan ping dari beberapa PC diatas ternyata hasilnya adalah RTO atau Request Time Out.