

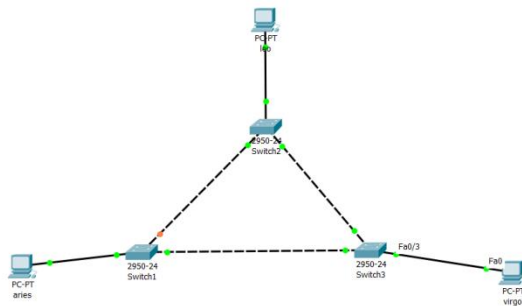
Nama : Fandhitya Giovani  
Nim : L200180118  
Kelas : E

## Praktikum

### Jaringan Komputer

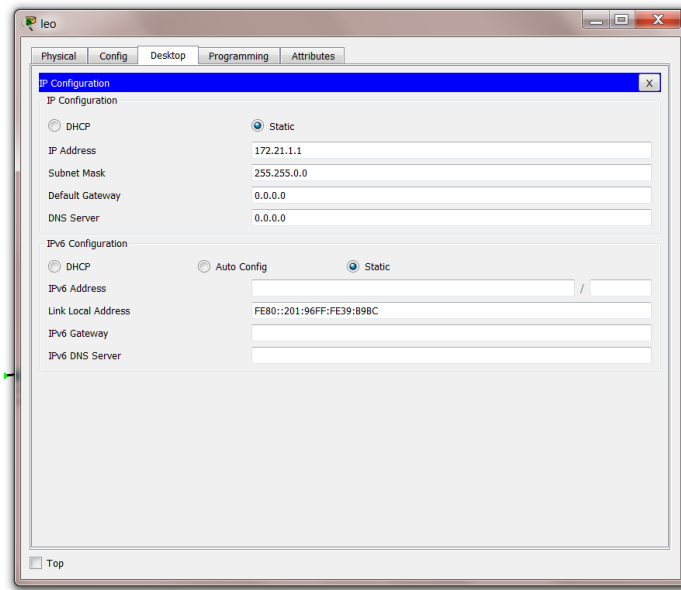
#### Kegiatan 1. Topologi 1

Gambar rangkaian topologi



Konfigurasi PC

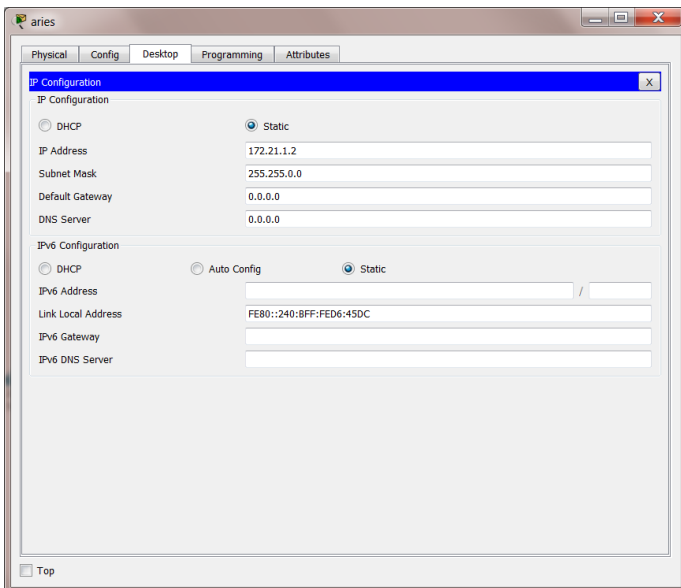
## > Leo



The screenshot shows the 'leo' configuration window with the 'Config' tab selected. The 'IP Configuration' section has 'Static' selected, with IP Address 172.21.1.1, 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 IPv6 Address, Link Local Address FE80::201:96FF:FE39:898C, IPv6 Gateway, and IPv6 DNS Server.

Field	Value
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 Address	
Link Local Address	FE80::201:96FF:FE39:898C
IPv6 Gateway	
IPv6 DNS Server	

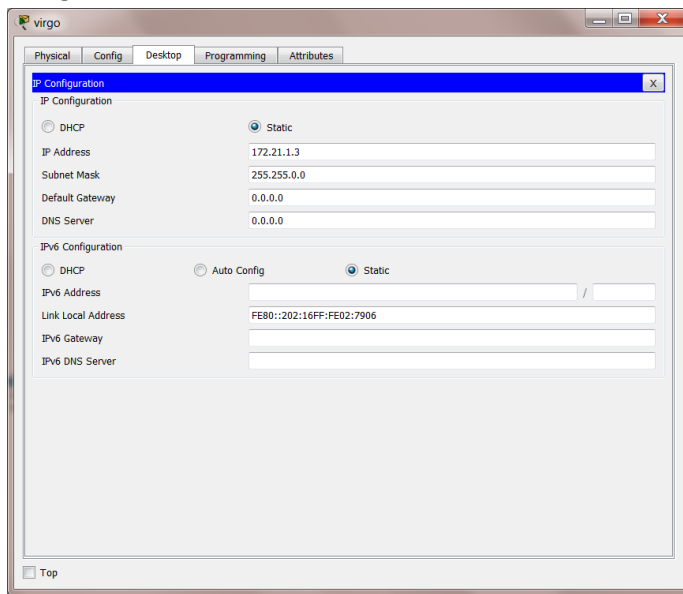
## > Aries



The screenshot shows the 'aries' configuration window with the 'Config' tab selected. The 'IP Configuration' section has 'Static' selected, with 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 IPv6 Address, Link Local Address FE80::240:8FF:FE06:45DC, IPv6 Gateway, and IPv6 DNS Server.

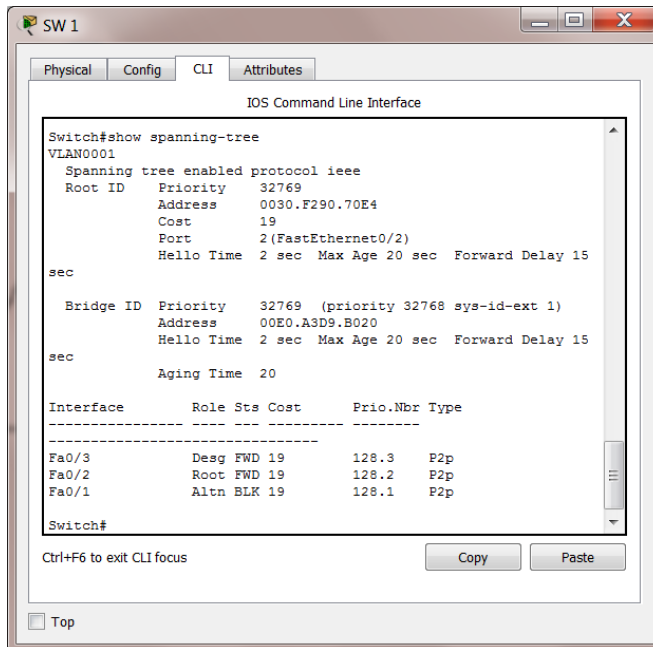
Field	Value
IP Address	172.21.1.2
Subnet Mask	255.255.0.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Address	
Link Local Address	FE80::240:8FF:FE06:45DC
IPv6 Gateway	
IPv6 DNS Server	

> Virgo

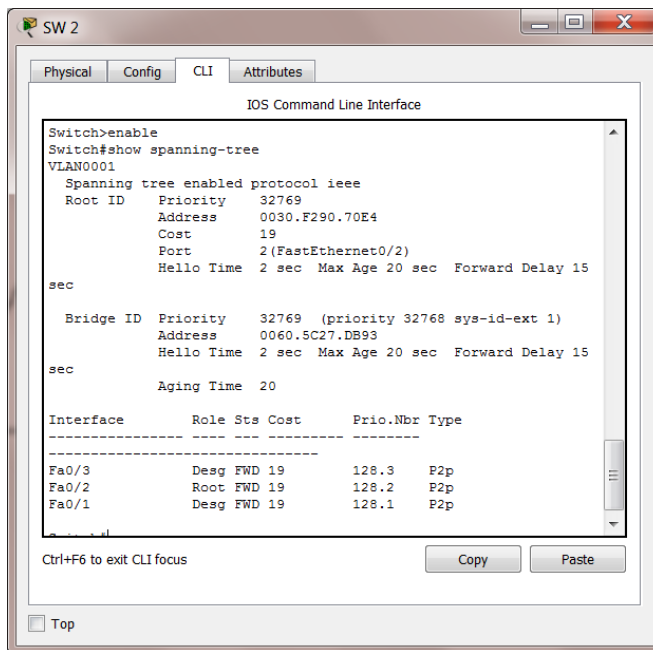


**Melihat status STP masing – masing switch**

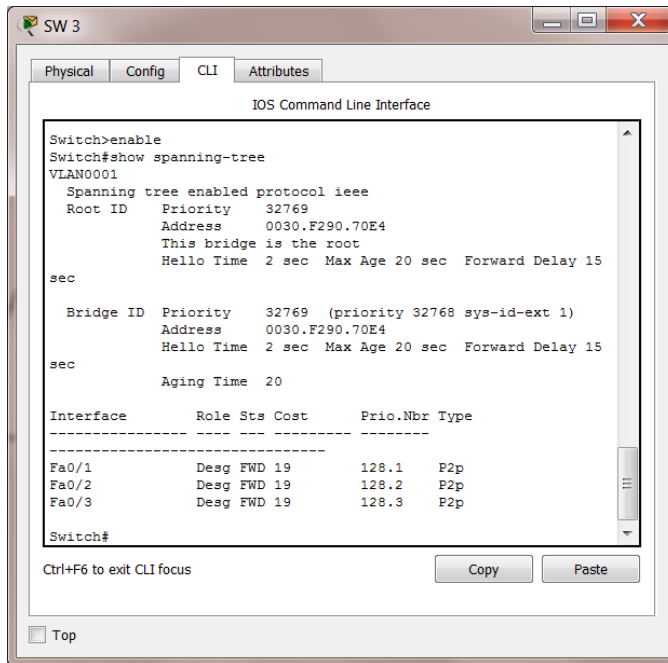
> SW 1



> SW 2



> SW 3



## Table setiap switch

> SW 1

No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	00E0.A3D9.B020
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 2

No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0060.5C27.DB93
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 3

No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0030.F290.70E4
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

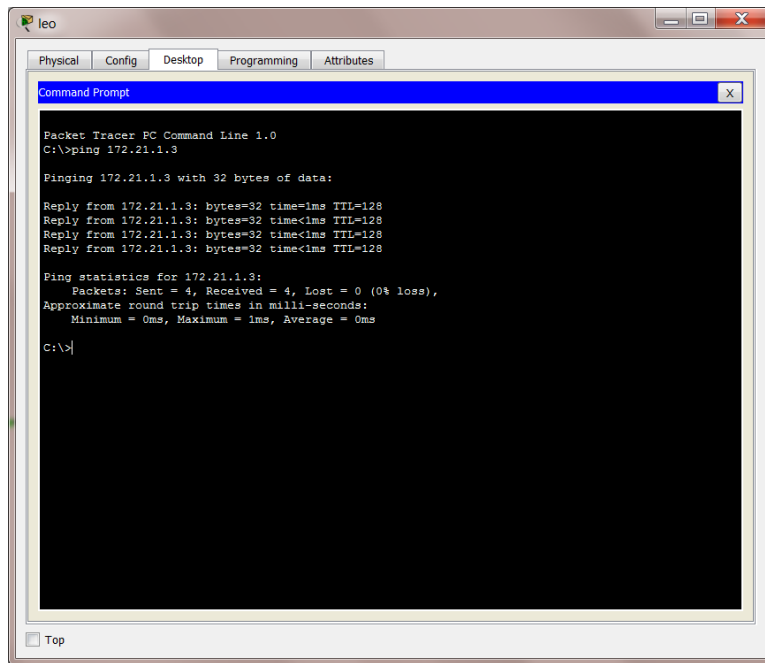
### Menentukan

- Root bridge : SW 3
- Designated bridge : SW 1 dan SW 2
- Root port : SW1(Fa0/3), SW2(Fa0/2)
- Designated port : SW1(Fa0/1), SW2(Fa0/1 dan Fa0/3), SW3(Fa0/1, Fa0/2, dan Fa0/3)

### Menentukan

- Keadaan forwarding : SW1(Fa0/1 dan Fa0/3), SW2(Fa0/1 Fa0/2 Fa0/3), SW3(Fa0/1 Fa0/2 Fa0/3)
- Keadaan blocking : SW1 (Fa0/2)

## Ping leo ke virgo

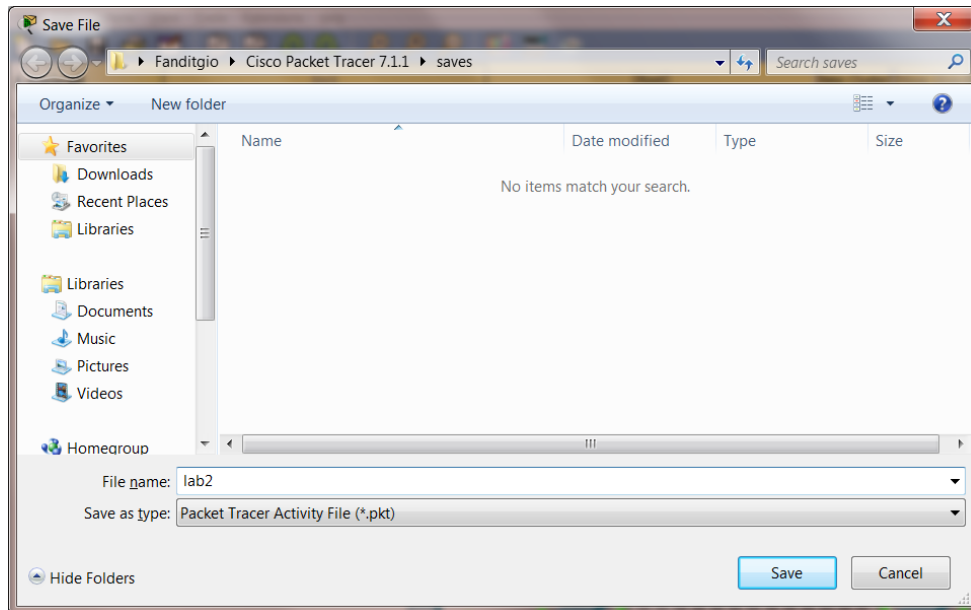


## Langkah melakukan ping

- Klik PC leo
- Pilih tab desktop
- Pilih command prompt
- Ketikkan ping 172.21.1.3

## Langkah menyimpan konfigurasi jaringan

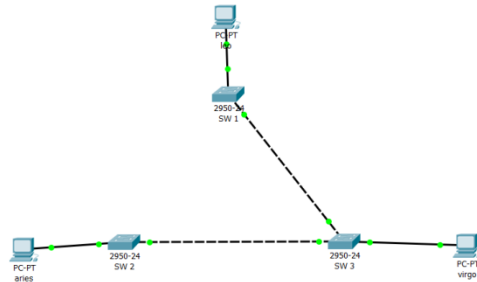
- > Klik file
- > Pilih Save As
- > Beri nama lab2, ekstensi akan menyesuaikan dengan aplikasi yang kita gunakan





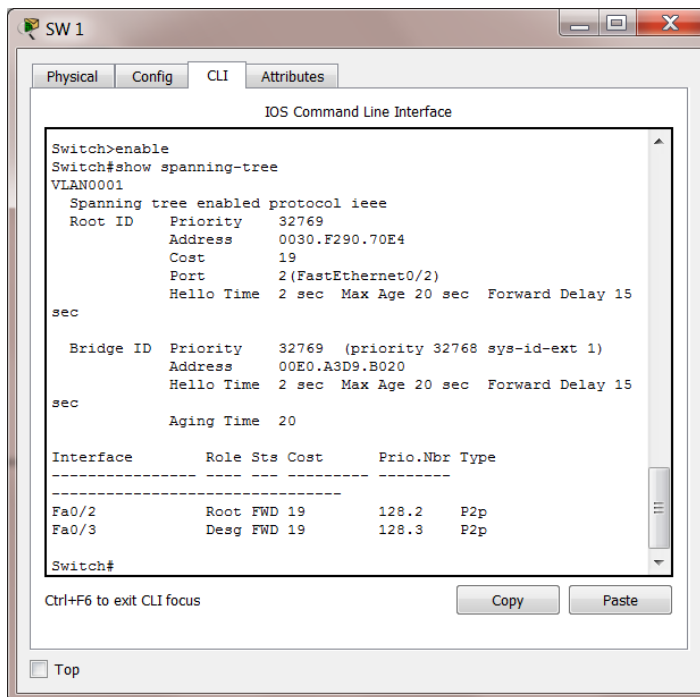
## Kegiatan 2 Topologi 2

### Rangkaian topologi 2



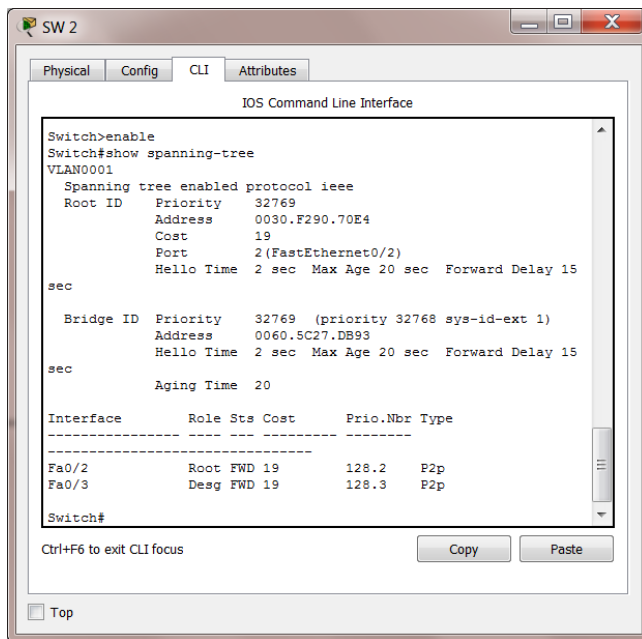
### Status STP masing – masing switch

> SW 1



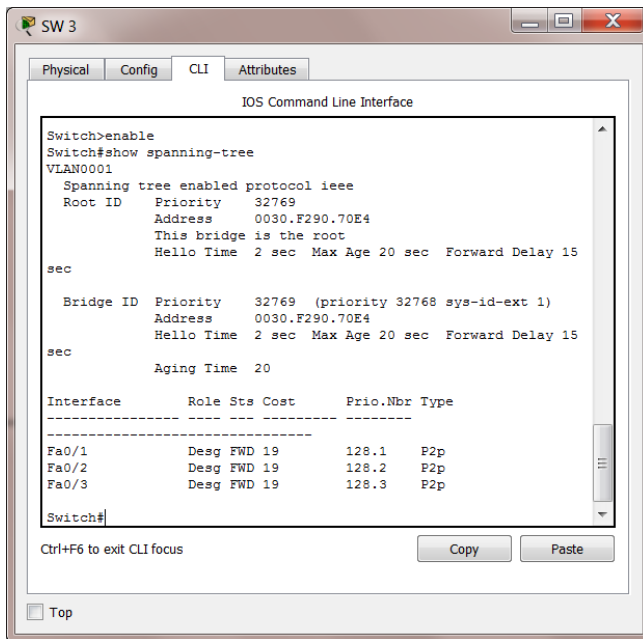
No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	00E0.A3D9.B020
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 2



No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0060.5C27.DB93
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 3



No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0030.F290.70E4
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

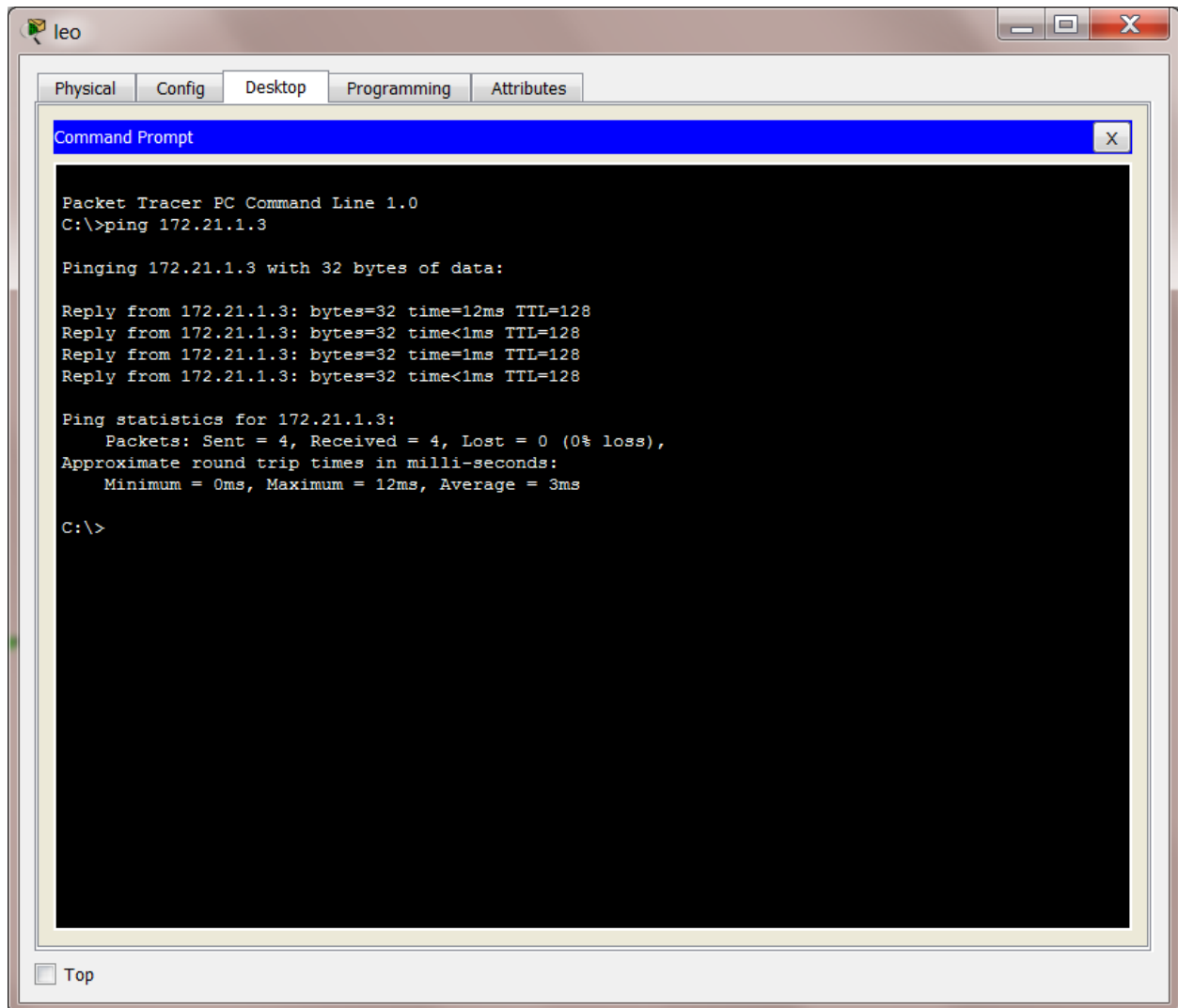
### Menentukan

- Root bridge : SW 3
- Designated bridge : SW 1 dan SW 2
- Root port : SW1(Fa0/2), SW2(Fa0/2)
- Designated port : SW1(Fa0/3), SW2(Fa0/3), SW3(Fa0/1, Fa0/2, Fa0/3)

### Menentukan

- Keadaan forwarding : SW1(Fa0/2 dan Fa0/3), SW2(Fa0/1 Fa0/2 Fa0/3), SW3(Fa0/1 Fa0/2 Fa0/3)
- Keadaan blocking : Tidak ada

## Ping PC Leo ke Virgo



The screenshot shows a Packet Tracer PC Command Line window for PC Leo. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a Command Prompt. The Command Prompt shows the execution of the command 'ping 172.21.1.3'. The output indicates that the ping was successful, with 4 packets sent, 4 received, and 0% loss. The approximate round trip times are: Minimum = 0ms, Maximum = 12ms, Average = 3ms.

```
Packet Tracer PC Command Line 1.0
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=12ms 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 = 12ms, Average = 3ms

C:\>
```