Nama : Yarin Nanditya A
Kelas : D
Nim : L200170155

Tugas Praktikum - Jaringan Komputer
MODUL 6

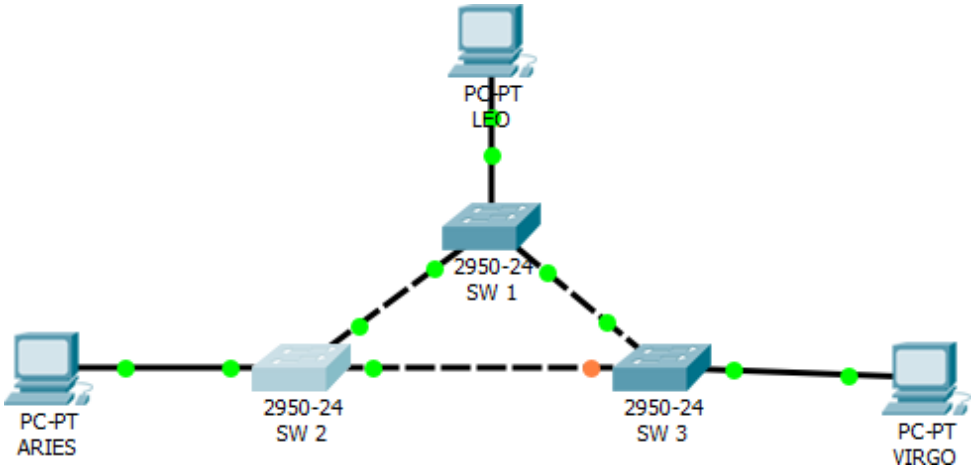
Kegiatan 1.

1. Tugas 1A : Langkah Pembuatan Topologi

a) Memilih device : 3 PC dan 3 Switch 2950-24 letakkan dengan cara *drag and drop.*

b) Meletakkan device sesuai dengan gambar.

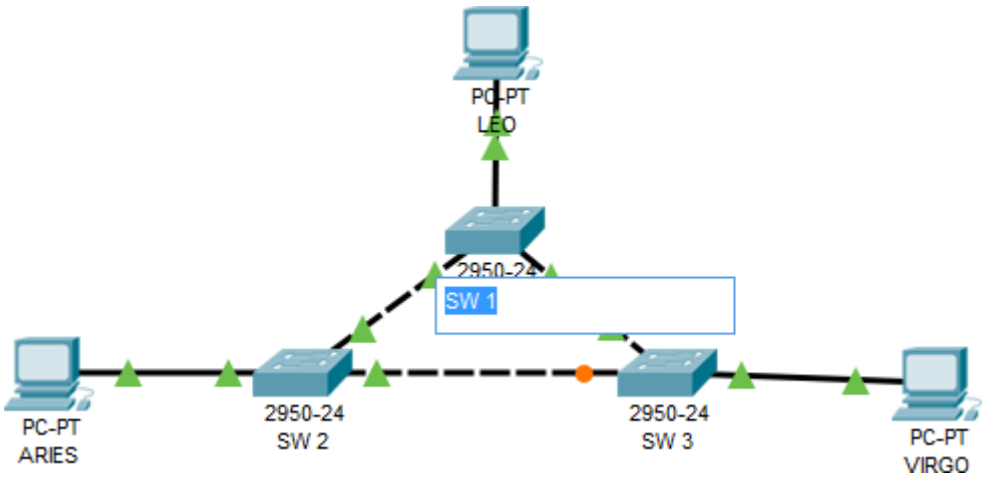
c) Menghubungkan tiap device dengan kabel.



2. Tugas 2A :Langkah pemberian nama switch

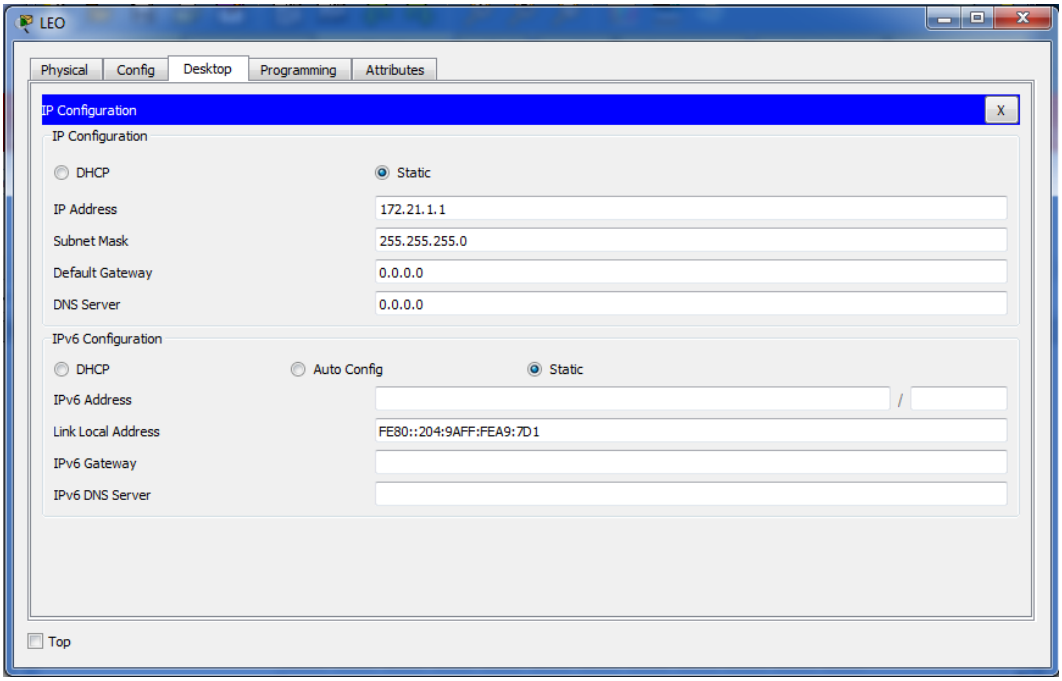
d) Klik tulisan yang ada di bawah 2950-24.

e) Hapus tulisan yang ada dan ganti dengan nama (SW1, SW2,SW3).



3. Mengambil 3 PC dimana setiap Pc diberi nama dan alamat IP sebagai berikut

Nama Pc	Ip Address
Leo	172.21.1.1/24
Aries	172.21.1.2/24
Virgo	172.21.1.3/24

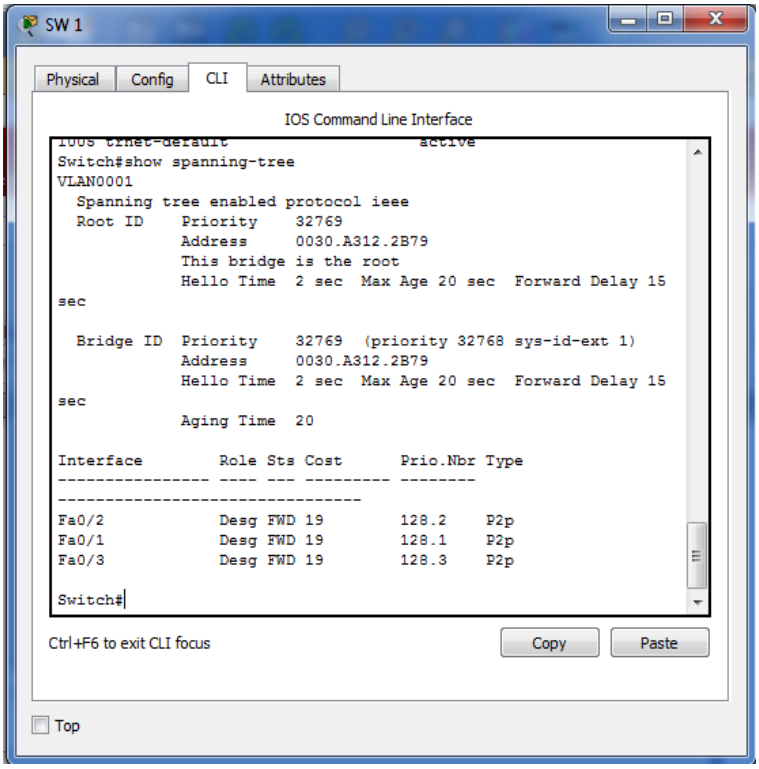


4. Tugas 4A : Mengcapture masing – masing tampilan status pada kondisi default.

Tugas 4B : Mengisikan data untuk tiap-tiap switch pada suatu table.

- ID Bridge : Adalah serangkaian niali dari *Bridge's priority* dan *MAC address.*

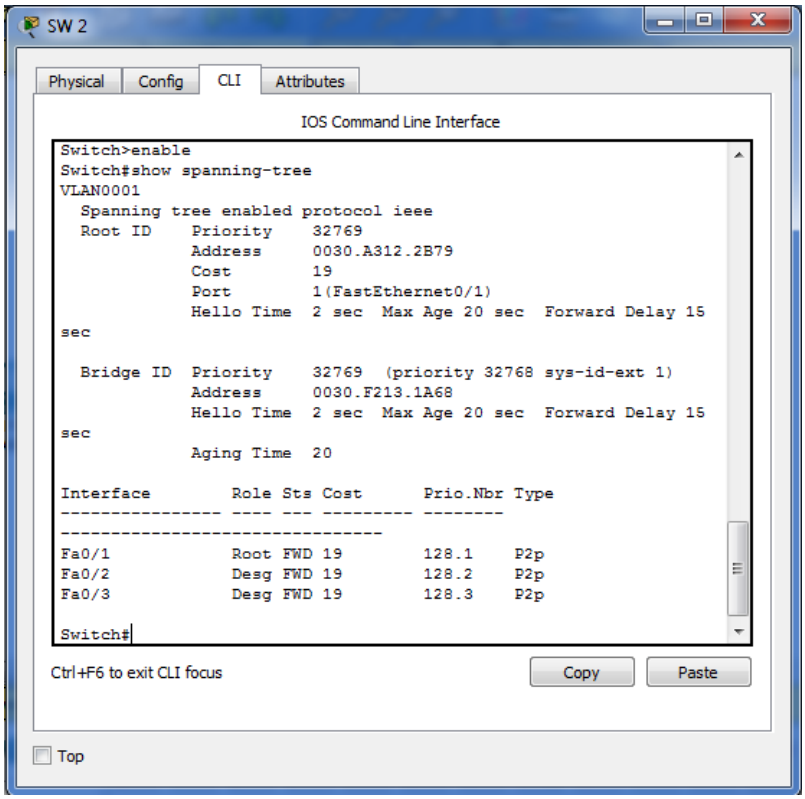
Switch 1




```
Switch#show mac-address-table
          Mac Address Table
-------------------------------------------

Vlan    Mac Address       Type        Ports
----    -----------       --------    -----

   1    0060.4751.6a01    DYNAMIC     Fa0/3
   1    0060.70b4.a001    DYNAMIC     Fa0/2
```

NO	VARIABEL	NILAI
1	Root ID	32769. 0030.A312.2B79
2	Priority	32769
3	MAC Address	0060.4751.6a01
		0060.70b4.a001
4	Bridge ID	32768. 0030.A312.2B79
5	Cost (0/1;0/2;/3)	root
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Switch 2

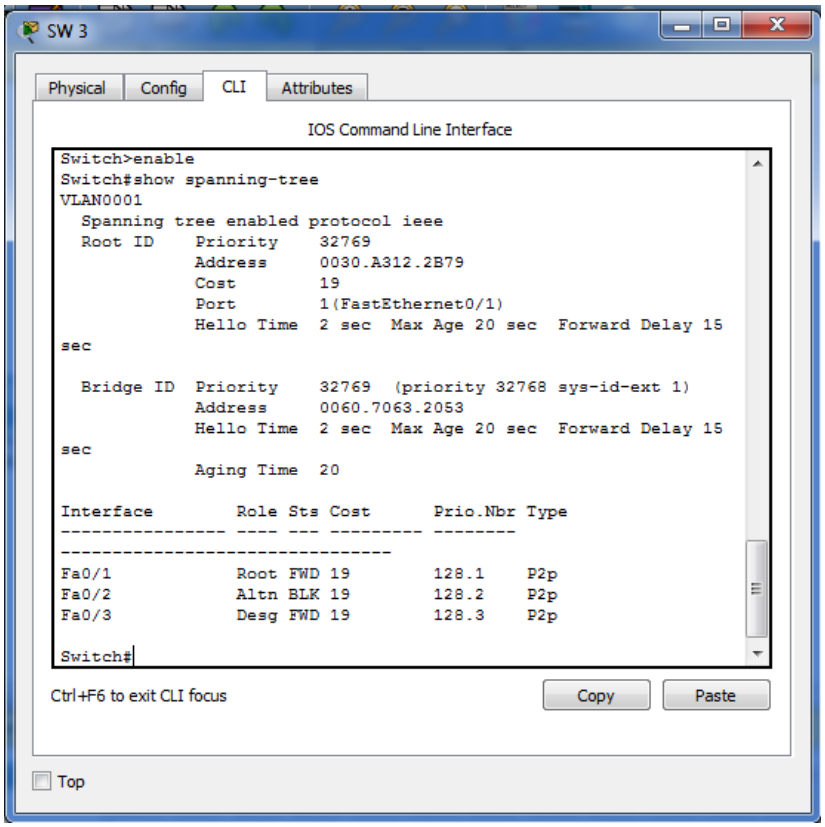


Untuk melihat *MAC Address*

```
Switch>en
Switch#show mac-address-table
          Mac Address Table
-------------------------------------------

Vlan    Mac Address       Type        Ports
----    -----------       --------    -----

   1    0001.6321.9c03    DYNAMIC     Fa0/1
   1    0060.70b4.a002    DYNAMIC     Fa0/2
Switch#
```

NO	VARIABEL	NILAI
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6321.9c03
		0060.70b4.a002
4	Bridge ID	32768.0030.F213.1A68
5	Cost (0/1;0/2;/3)	Cost 19, port 0/1
6	Hello Time	2 sec
7	MaxAge	20sec
8	Forward Delay	15 sec

Switch 3



Untuk melihat *MAC Address*

```
Switch>en
Switch#show mac-address-table
          Mac Address Table
-------------------------------------------

Vlan    Mac Address       Type        Ports
----    -----------       --------    -----

   1    0001.6321.9c02    DYNAMIC     Fa0/1
Switch#
```

NO	VARIABEL	NILAI
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.6321.9c02
4	Bridge ID	32769.0060.7063.2053
5	Cost (0/1;0/2;/3)	Cost 19, port 0/1
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

5. Tugas 5A : Melakukan printah ping

f) Klik Pc Leo

g) Buka Command Prompt

h) Ketikkan **ping 172.21.1.3**

i) Lalu tekan enter

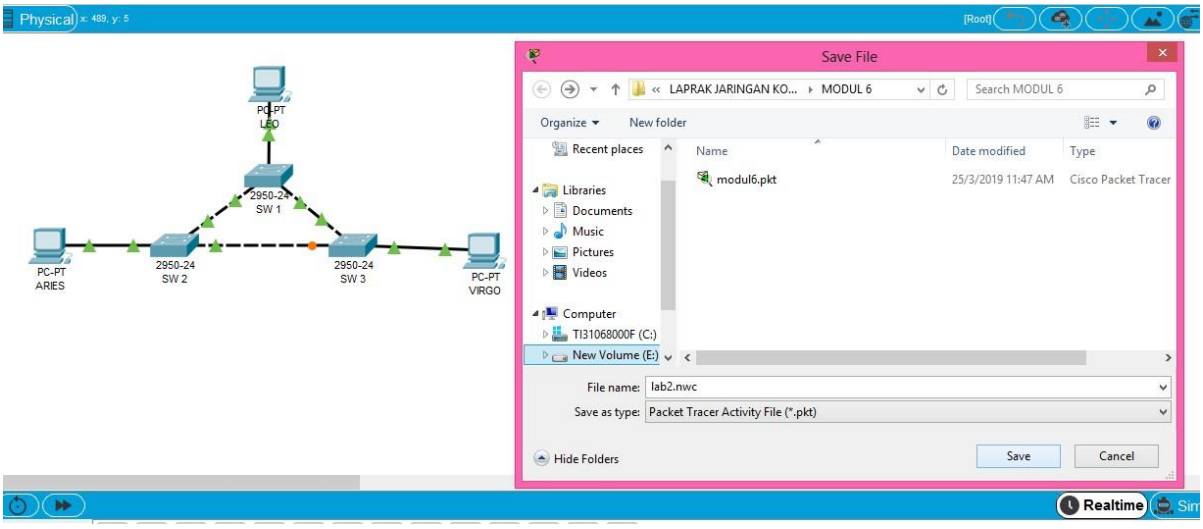
```
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=11ms 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 = 1ms, Maximum = 11ms, Average = 3ms

C:\>
```

6. Tugas 6A : Menulis langkah untuk menyimpan konfigurasi jaringan

j) Klik file pada jendela packet tracer di pojok kiri atas.

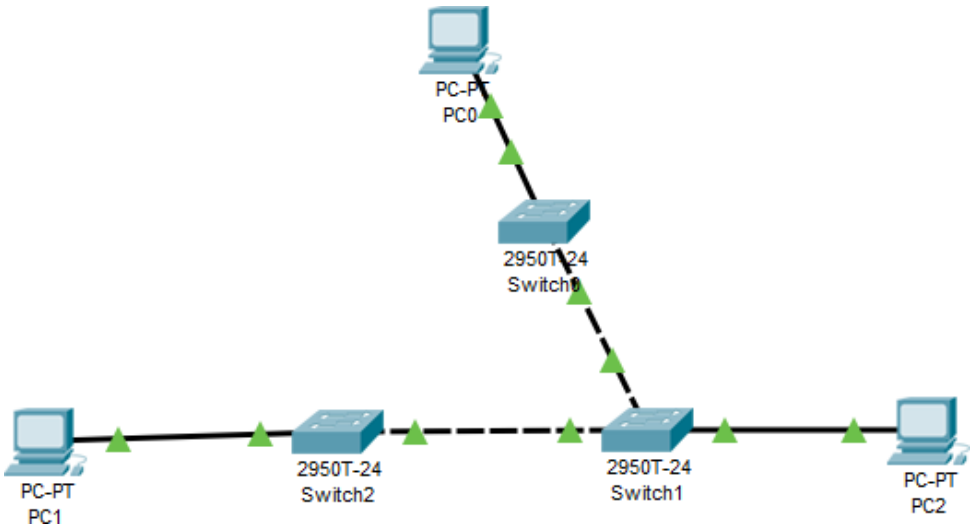
k) Klik save as, dan pilih lokasi penyimpanan.

l) Ketikkan nama baru untuk file konfigurasi ini dengan nama lab2.nwc.

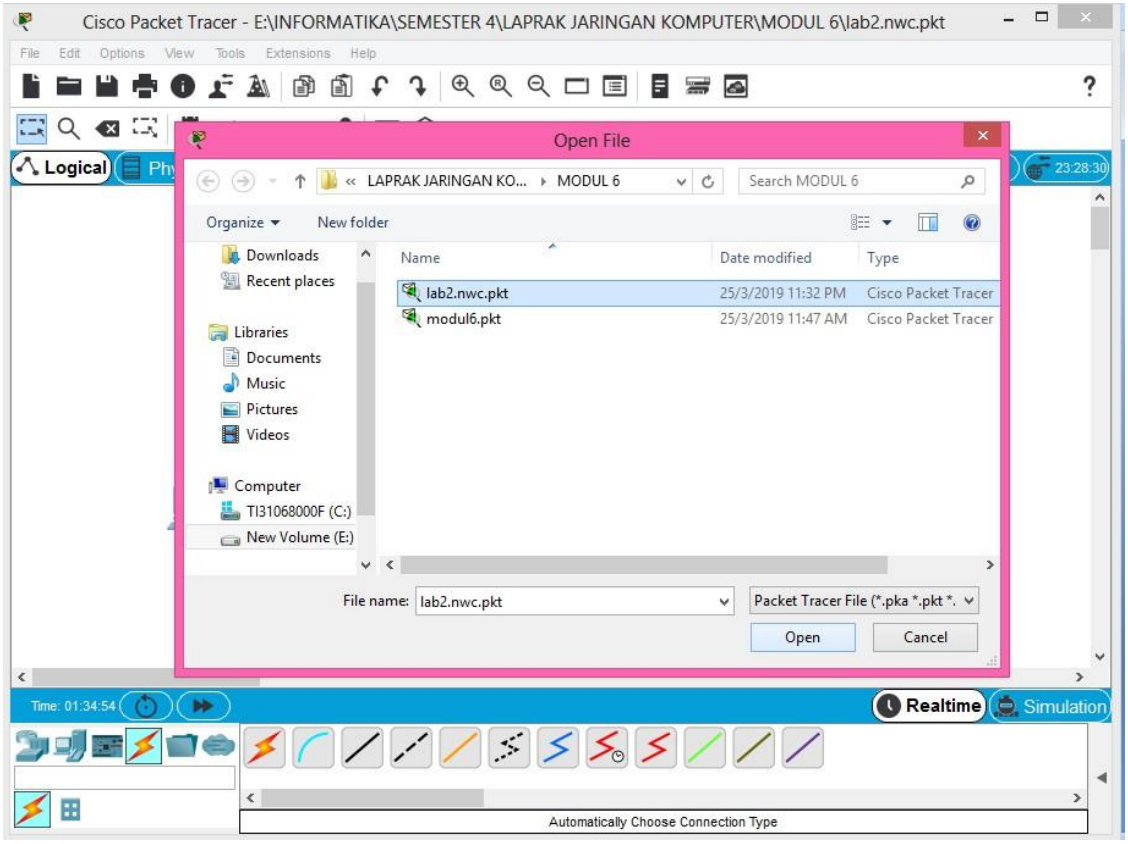


Kegiatan 2

1. Merubah topologi menggunakan packet tracer seperti gambar di bawah ini :



2.



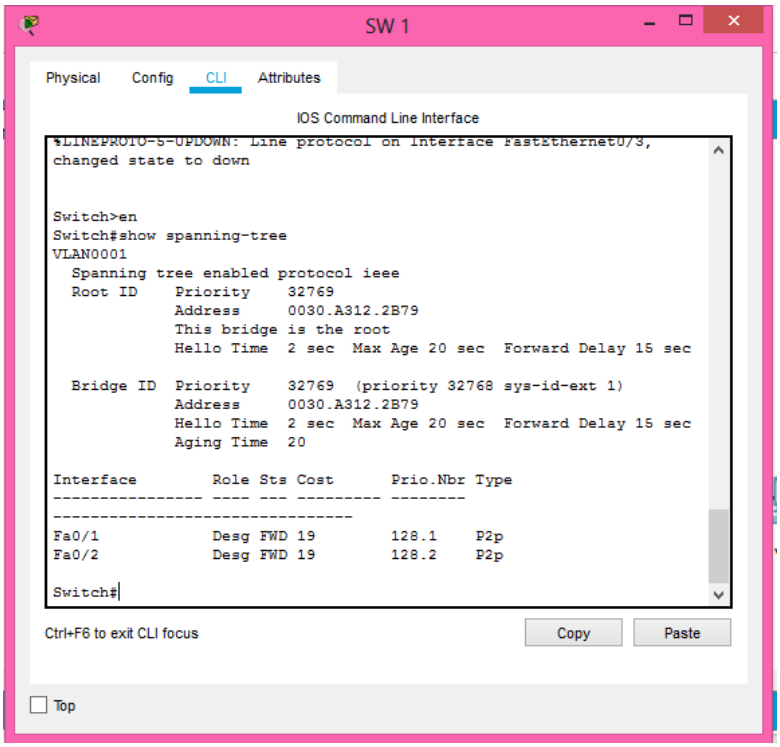
3. Pada mode user atau previleged, lihat status STP pada masing-masing Switch.

Tugas 9A : Mengcapture masing – masing tampilan status pada kondisi default.

Mengisikan data untuk tiap-tiap switch pada suatu table.

- ID Bridge: Adalah serangkaian niali dari Bridge's priority dan MAC address.

Switch 1

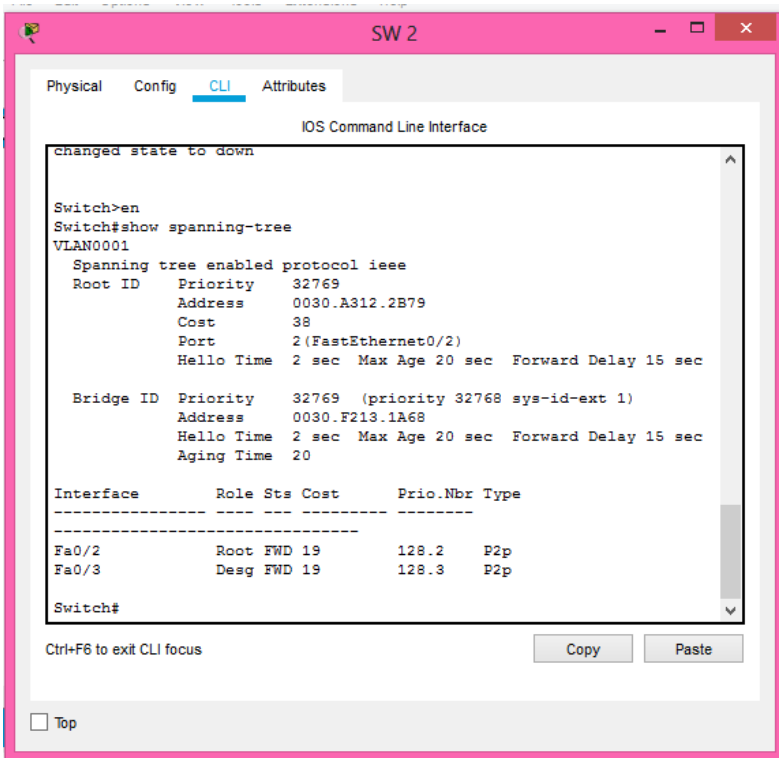


Untuk melihat *MAC Address*

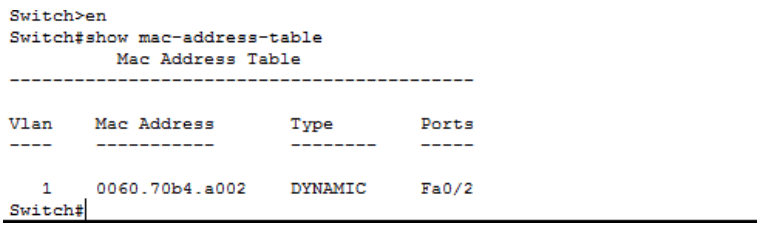
```
Switch#show mac-address-table
          Mac Address Table
-------------------------------------------

Vlan    Mac Address       Type        Ports
----    -----------       --------    -----

   1    0060.70b4.a001    DYNAMIC     Fa0/2
Switch#
```

NO	VARIABEL	NILAI
1	Root ID	32769. 0030.A312.2B79
2	Priority	32769
3	MAC Address	0060.70b4.a001
4	Bridge ID	32768. 0030.A312.2B79
5	Cost (0/1;0/2;/3)	root
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Switch 2

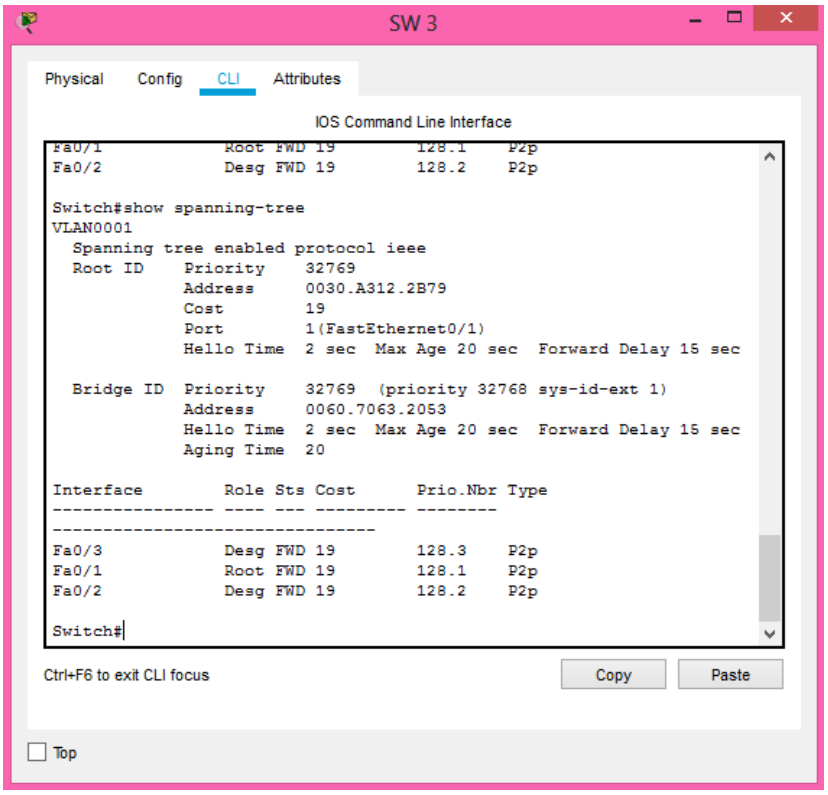


Untuk melihat *MAC Address*



NO	VARIABEL	NILAI
1	Root ID	32769. 0030.A312.2B79
2	Priority	32769
3	MAC Address	0060.70b4.a002
4	Bridge ID	32768. 0030.F213.1A68
5	Cost (0/1;0/2;/3)	Cost 38, port 0/2
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Switch 3

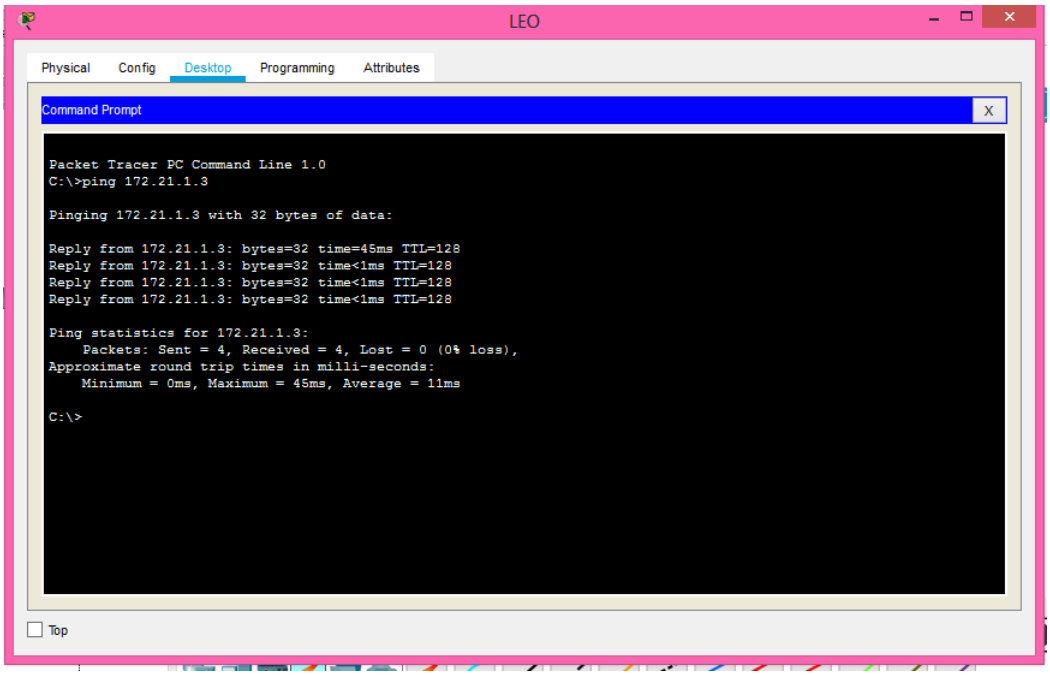


Untuk melihat *MAC Address*

```
Switch>en
Switch#show mac-address-table
          Mac Address Table
-------------------------------------------

Vlan    Mac Address       Type        Ports
----    -----------       --------    -----

   1    0001.6321.9c02    DYNAMIC     Fa0/1
   1    0060.4751.6a02    DYNAMIC     Fa0/2
Switch#
```

NO	VARIABEL	NILAI
1	Root ID	32769. 0030.A312.2B79
2	Priority	32769
3	MAC Address	0001.6321.9c02
		0060.4751.6a02
4	Bridge ID	32768. 0060.F063.2053
5	Cost (0/1;0/2;/3)	Cost 19, port 0/1
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

4.


LEO
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
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=45ms 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 = 45ms, Average = 11ms
C:\>
Top