

NAMA: TIKA PRATIWI

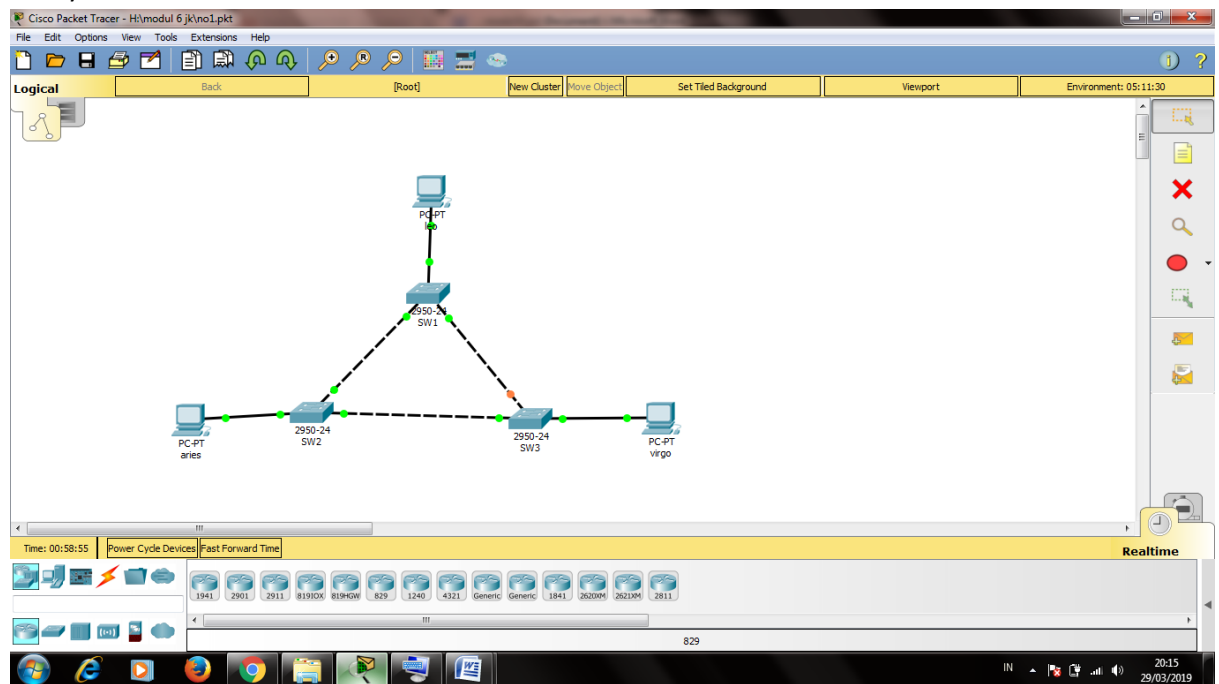
NIM: L200170046

KELAS: B

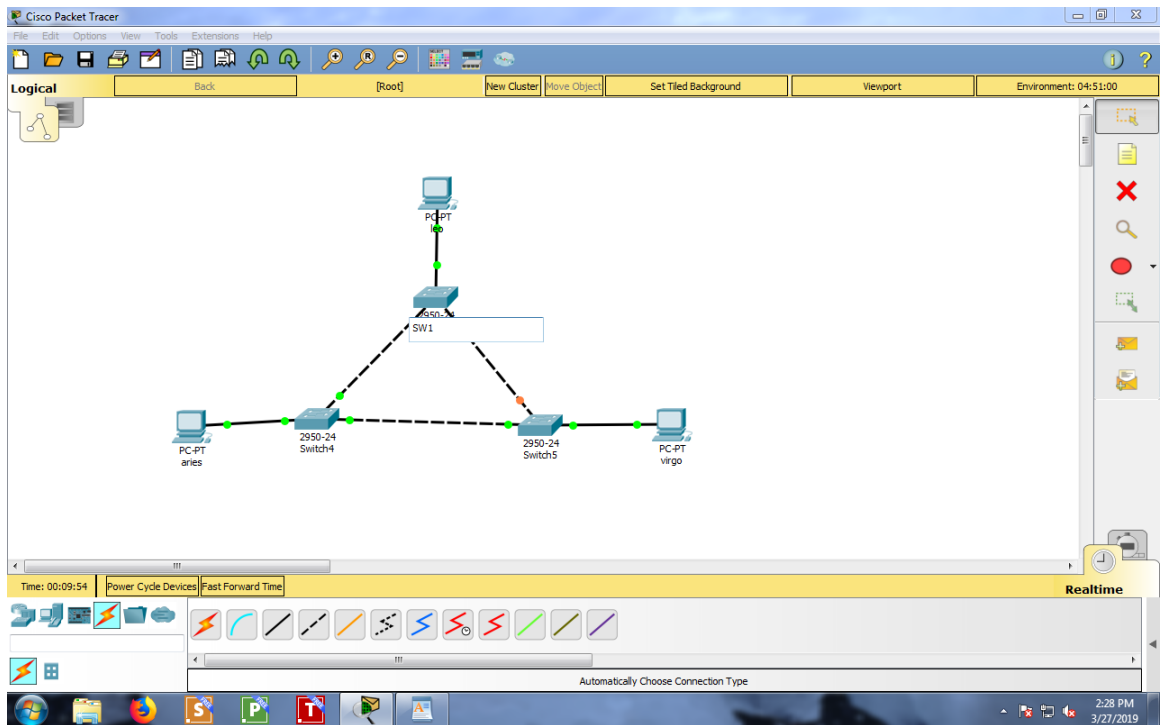
MODUL 6

TOPOLOGI 1:

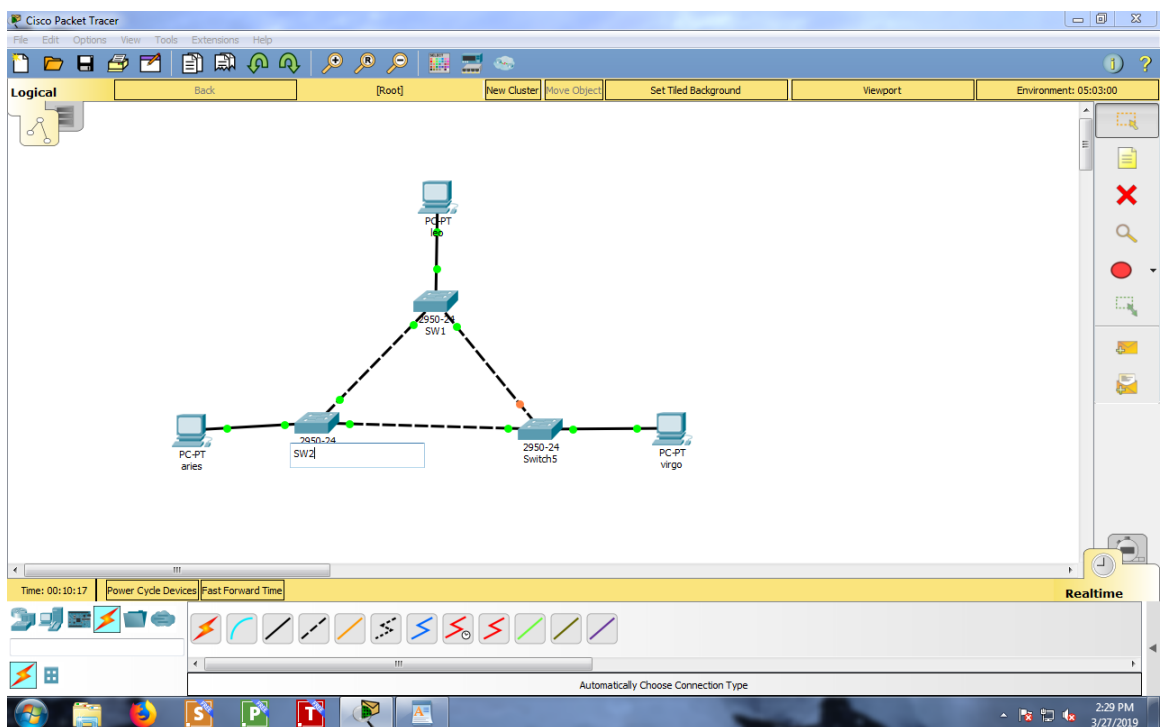
1. Menggunakan PACKET TRACER buat topologi berikut ini dengan menggunakan switch Catalyst 2950.



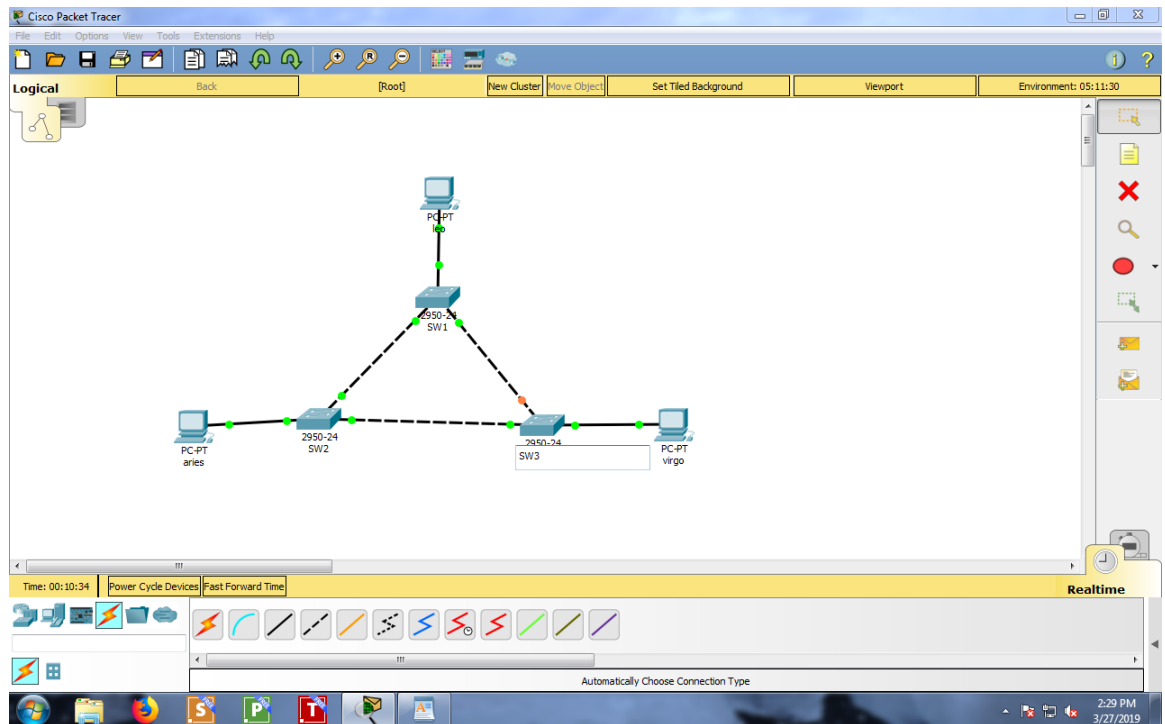
2. Beri nama masing-masing switch dengan SW1, SW2, dan SW3.
SW1



SW2



SW3

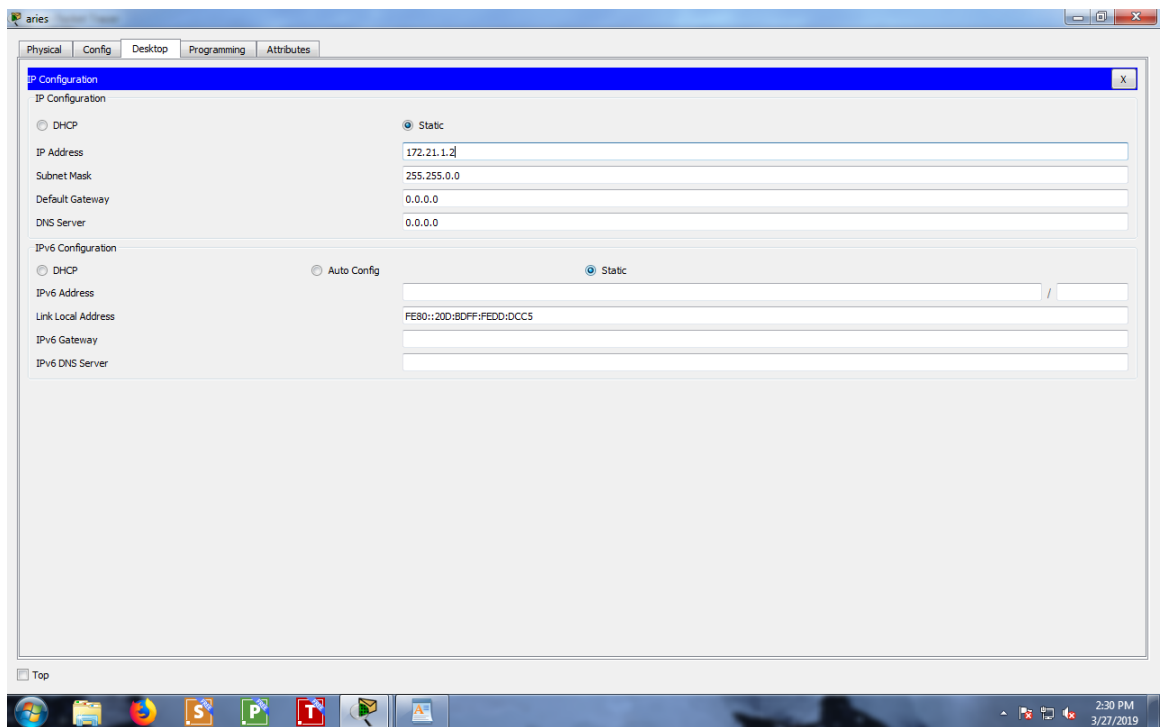


3. Konfigurasi masing-masing PC dengan alamat IP.

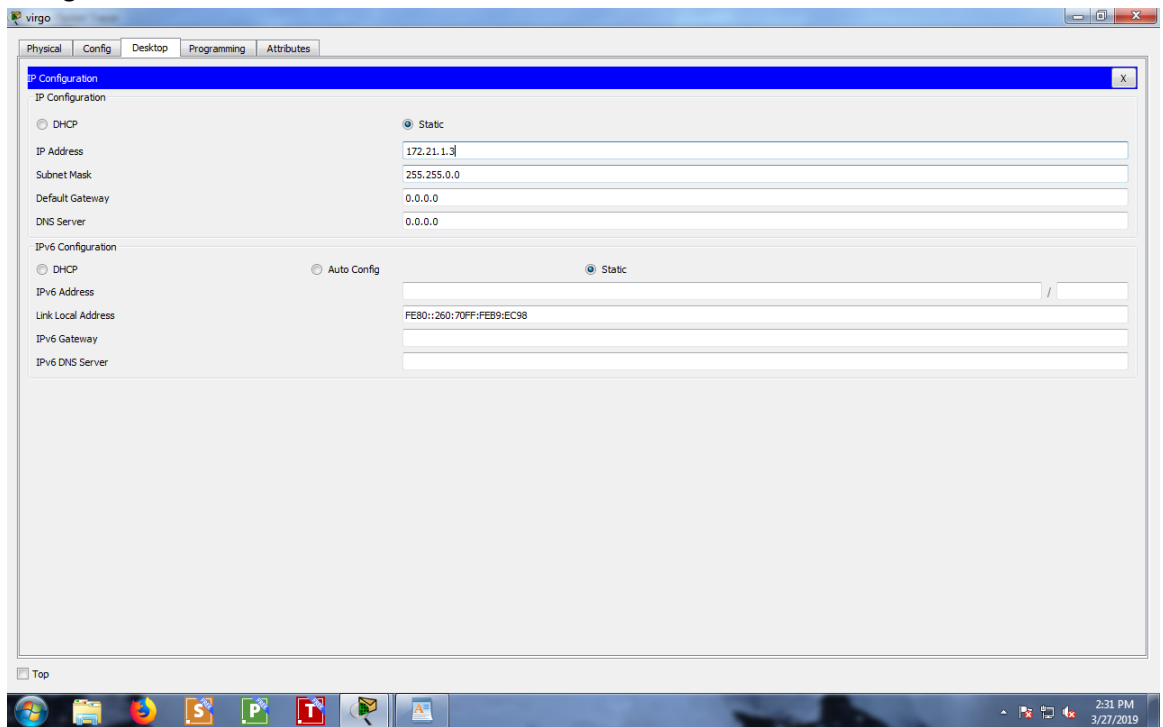
IP leo

The screenshot shows the IP Configuration window for a device named 'leo'. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The IP Configuration tab is selected, showing fields for 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 is also visible, showing fields for IPv6 Address, Link Local Address (FE80::208:BEFF:FE46:19A5), IPv6 Gateway, and IPv6 DNS Server.

IP aries

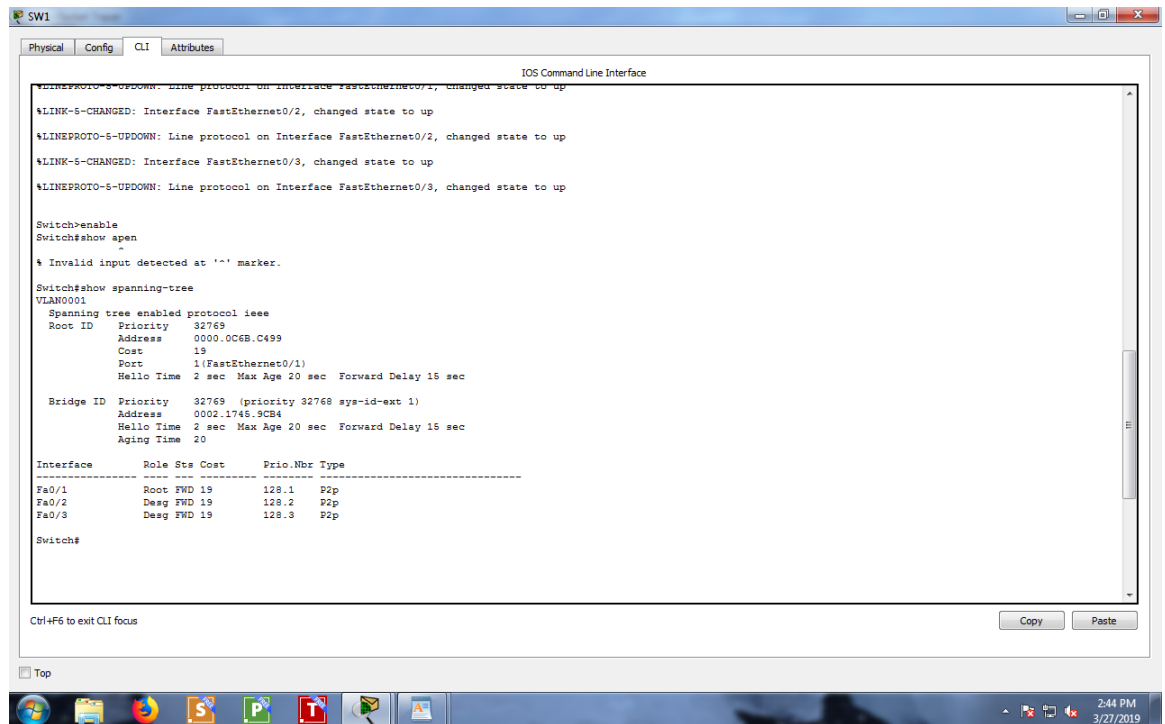


IP virgo



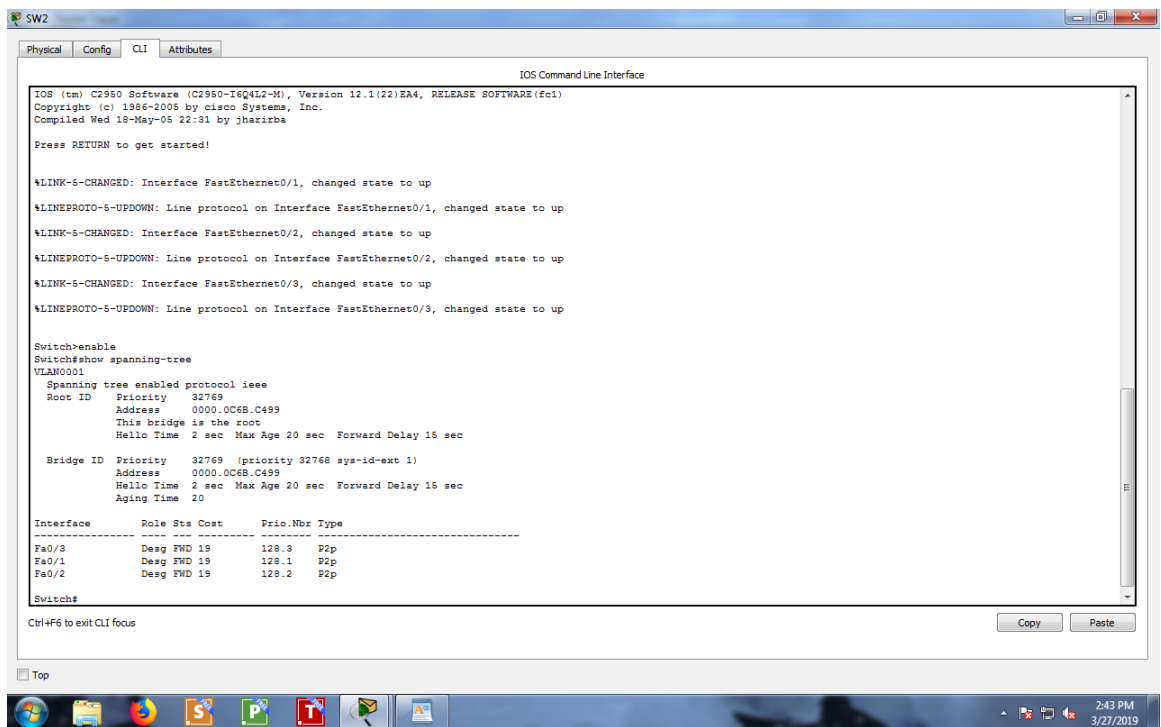
4. Pada mode user atau mode privileged, lihat status STP pada masing-masing switch:

SW1:



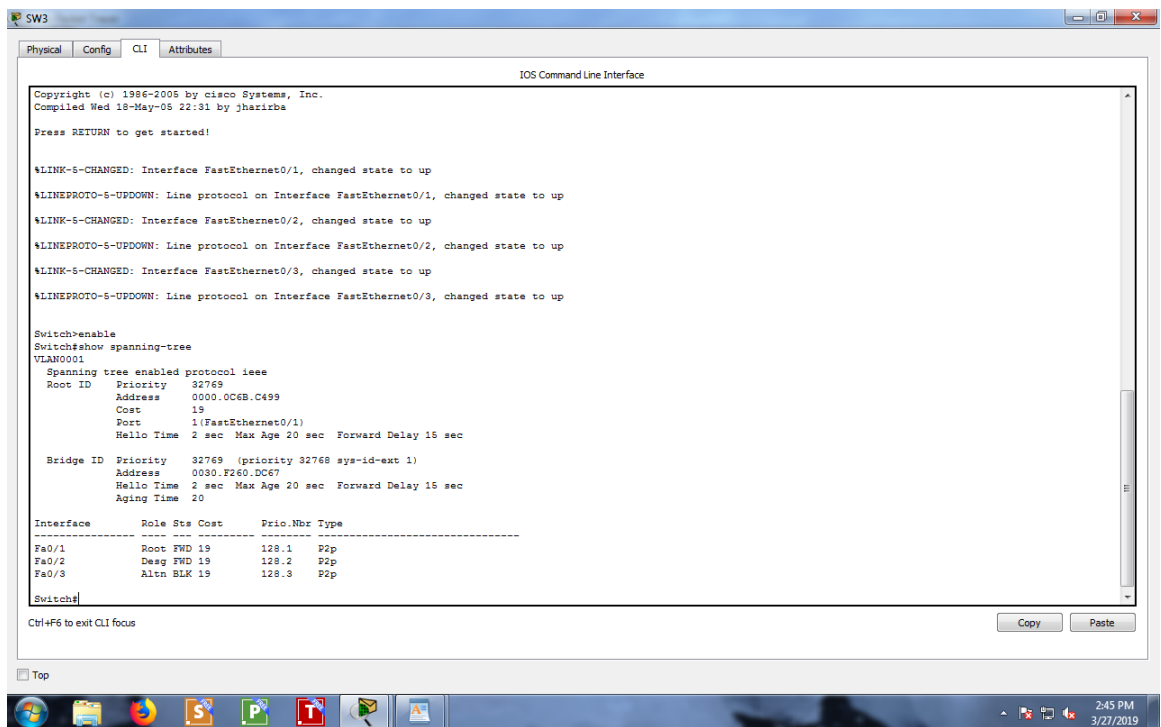
No	Variabel	Nilai
1	Root ID	32769.0000.0C6B.C499
2	Priority	32769
3	MAC Address	0000.0C6B.C499
4	Bridge ID	32764.0000.1745.9CB4
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
9	Interface	fa0/1, fa0/2, fa0/3
10	Role	Root,Desg,Desg
11	Sts	FWD

SW2:



No	Variabel	Nilai
1	Root ID	32769.0000.0C6B.C499
2	Priority	32769
3	MAC Address	0000.0C6B.C499
4	Bridge ID	32769.0000.0C6B.C499
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
9	Interface	fa0/3, fa0/1, fa0/2
10	Role	Desg,Desg,Desg
11	Sts	FWD

SW3:



No	Variabel	Nilai
1	Root ID	32769.0000.0C6B.C499
2	Priority	32769
3	MAC Address	0000.0C6B.C499
4	Bridge ID	32769.0030.F260.DC67
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
9	Interface	fa0/1, fa0/2, fa0/3
10	Role	Root,Desg,Altn
11	Sts	FWD,FWD,BLK

4C :

-root bridge : SW 2

-root port : SW 1

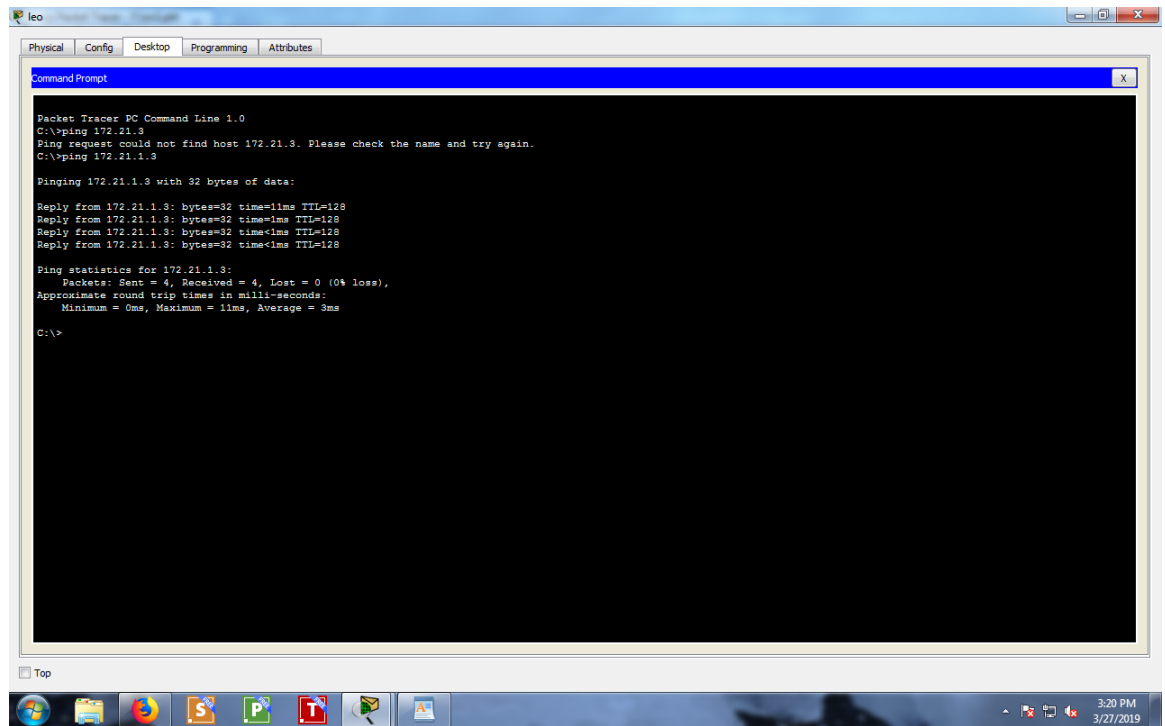
-destination bridge : SW 3

5C :

- kondisi Forwarding : SW 1 , SW 2, & SW 3 (fa 0/1, fa 0/2)

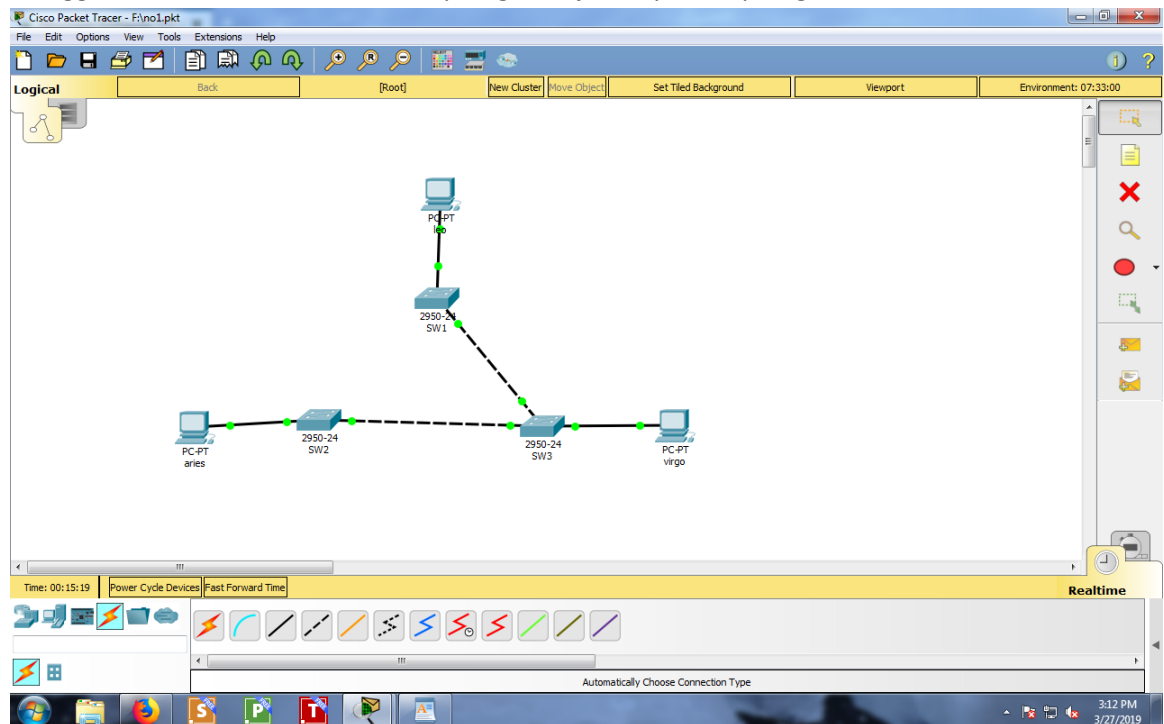
- kondisi blocking : SW 3 fa 0/3

5. Dari PC leo lakukan ping ke PC virgo



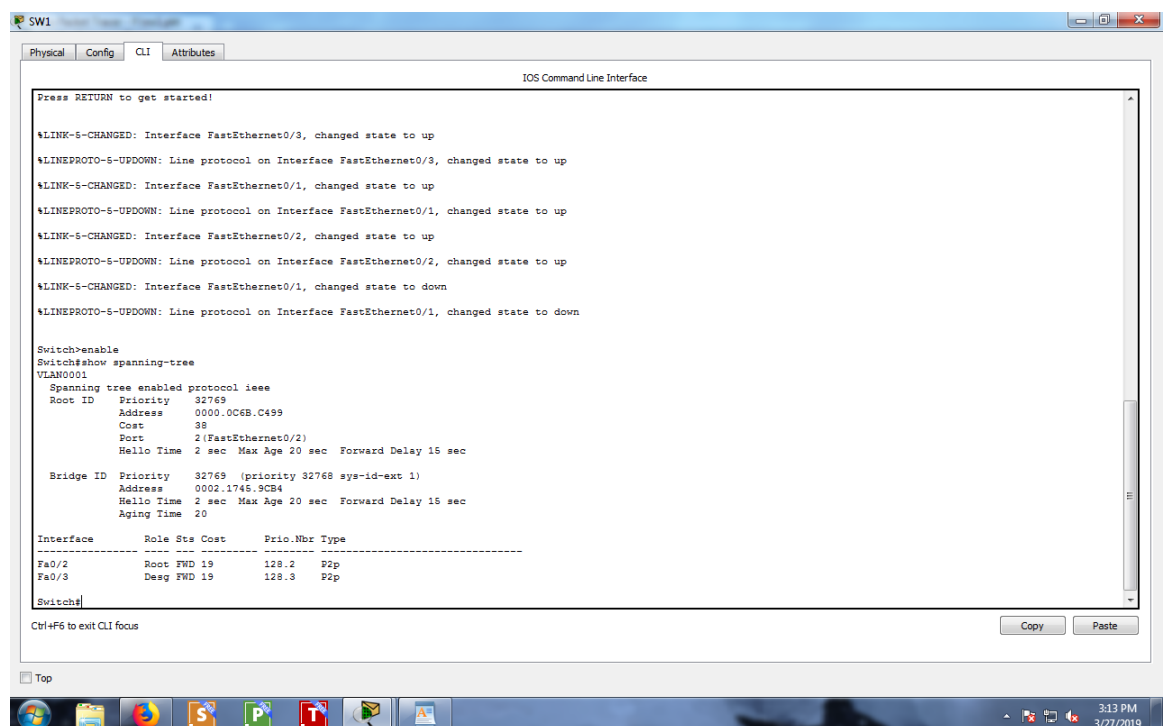
TOPOLOGI 2:

1. Menggunakan Packet Tracer ubah topologi menjadi seperti topologi berikut ini:



2. Lakukan langkah lab.4 dan lab.5

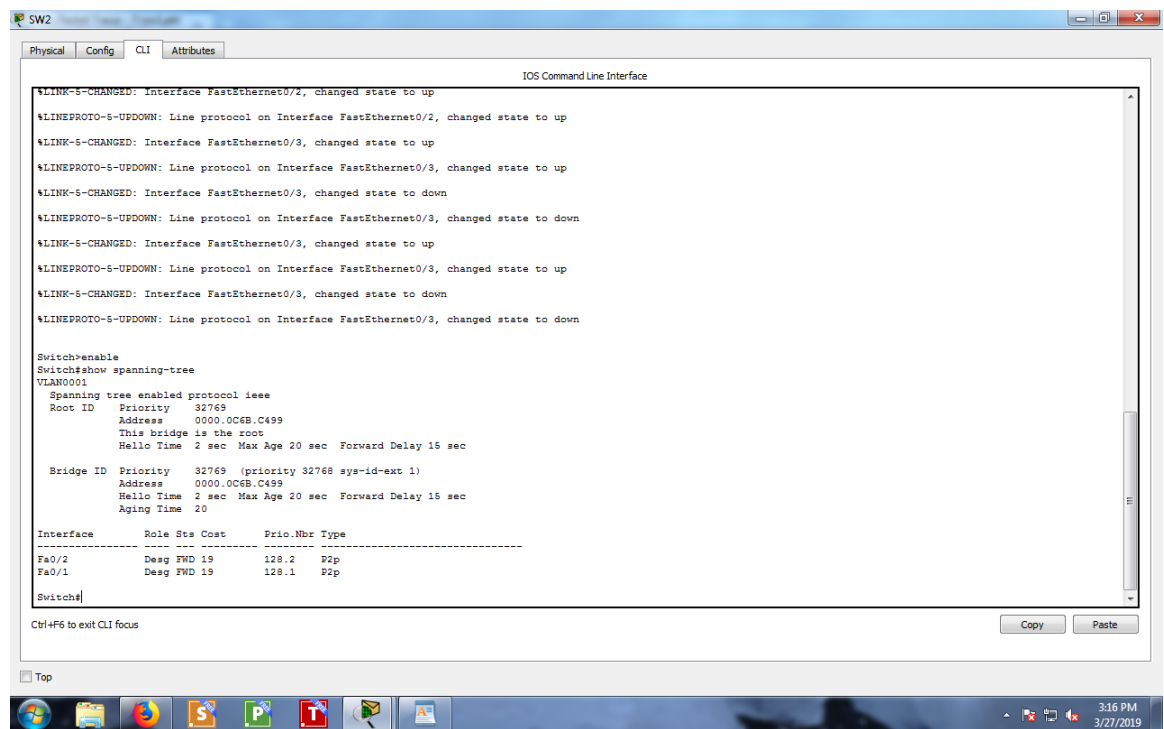
SW1: ROOT PORT



No	Variabel	Nilai
1	Root ID	32769.0000.0C6B.C499
2	Priority	32769
3	MAC Address	0002.0C6B.C499
4	Bridge ID	32764.0000.1745.9CB4

5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
9	Interface	fa0/2, fa0/3
10	Role	Root,Desg
11	Sts	FWD,FWD

SW2:ROOT BRIDGE



No	Variabel	Nilai
1	Root ID	32769.0000.0C6B.C499
2	Priority	32769
3	MAC Address	0000.0C6B.C499
4	Bridge ID	32769.0000.0C6B.C499
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
9	Interface	fa0/2, fa0/1
10	Role	Desg,Desg
11	Sts	FWD,FWD

SW3: ROOT PORT

The screenshot shows a Cisco IOS Command Line Interface for a switch named SW3. The user has entered the command `show spanning-tree` for VLAN0001. The output displays the spanning tree configuration for the root port (Fa0/1) and the designated ports (Fa0/2 and Fa0/3). The root port is Fa0/1, which is in the Root FWD state. The designated ports are Fa0/2 and Fa0/3, both in the Desg FWD state. The configuration includes the root ID (32769.0000.0C6B.C499), priority (32769), MAC address (0000.0C6B.C499), cost (19), and hello time (2 sec). The bridge ID is 32769.0030.F260.DC67. The interface roles are Root FWD for Fa0/1, Desg FWD for Fa0/2, and Desg FWD for Fa0/3.

```

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0000.0C6B.C499
             Cost        19
             Port        1(FastEthernet0/1)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address     0030.F260.DC67
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/1                    Root FWD 19        128.1    P2p
Fa0/2                    Desg FWD 19        128.2    P2p
Fa0/3                    Desg FWD 19        128.3    P2p

Switch#
  
```

No	Variabel	Nilai
1	Root ID	32769.0000.0C6B.C499
2	Priority	32769
3	MAC Address	0000.0C6B.C499
4	Bridge ID	32769.0030.F260.DC67
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
9	Interface	fa0/1, fa0/2, fa0/3
10	Role	Root,Desg, Desg
11	Sts	FWD,FWD,FWD

3. Dari PC leo lakukan ping ke PC virgo

