

YOGA TRI PRIHATIN

L20170150

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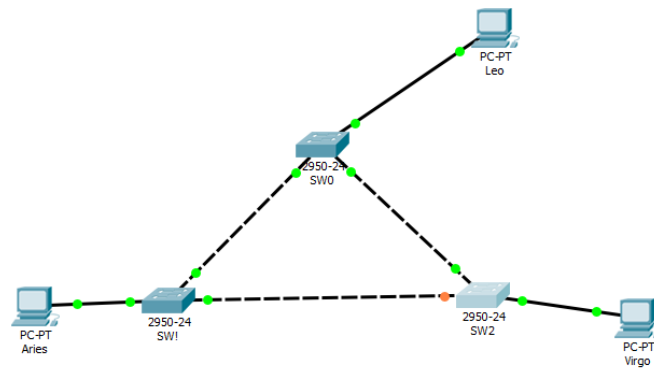
TUGAS MODUL KE-6

PRAKTIKUMJARINGAN KOMPUTER

TUGAS 1A : Tulislah langkah pembuatan topologi!

Jawab:

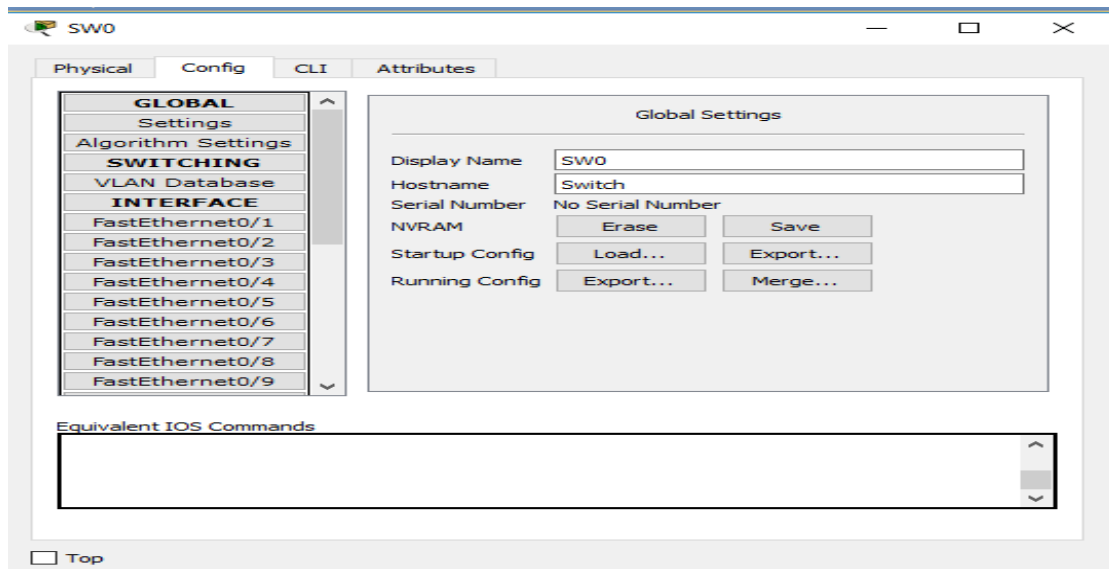
Pilihlah model switch 2950-24 sejumlah 3 buah dan 3 buah PC, hubungan PC Leo ke SW1, lalu PC Aries ke SW2, dan Virgo ke SW3. Setelah itu hubungan kan SW1, SW2, dan SW3.



TUGAS 2A : Tulislah langkah pemberian nama switch dari mode user!

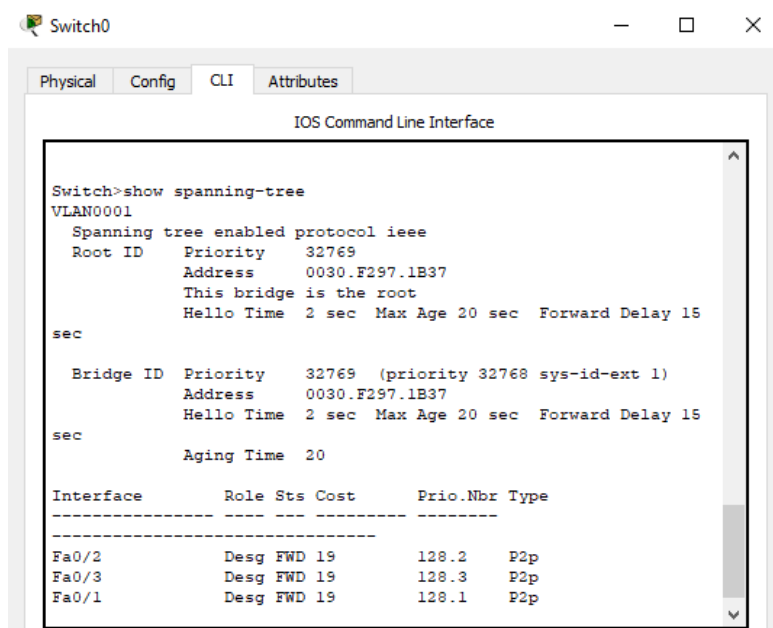
Jawab :

Pilih switch yang akan diganti namanya, pilih config dan lalu isikan nama pada kolom tersebut,seperti berikut :



TUGAS 4A : Pada kondisi default, capture masing-masing tampilan status STP switch.

1.SW1



2. SW2

```

Switch1>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0030.F297.1B37
             Cost        19
             Port        2(FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     00D0.FFC1.C6A0
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
             Aging Time  20

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

```

3. SW3

```

Switch2>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0030.F297.1B37
             Cost        19
             Port        3(FastEthernet0/3)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     00E0.F798.2482
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
             Aging Time  20

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

```

TUGAS 4B : Untuk setiap Switch , isikan table berikut :

SW1

No	Variabel	Nilai	Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343	Fa 0/1	Root	FWD
2.	Priorty	32769	Fa 0/2	Altn	BLK
3.	MAC Address	00E0.A3B8.6ECD	Fa 0/3	Desg	FWD
4.	Bridge ID	32769 : 00E0. A3B8.6ECD			
5.	Cost(0/1:0/2:0/3)	0/1 = 19 0/2 = 19 0/3 = 19			
6.	Hello Time	2 sec			
7.	Max Age	20 sec			
8.	Forward Delay	15 sec			

SW2

No	Variabel	Nilai	Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343	Fa 0/1	Desg	FWD
2.	Priorty	32769	Fa 0/2	Desg	FWD
3.	MAC Address	0030.F2EE.3343	Fa 0/3	Desg	FWD
4.	Bridge ID	32769 : 0030.F2EE.3343			
5.	Cost(0/1:0/2:0/3)	0/1 = 19 0/2 = 19 0/3 = 19			
6.	Hello Time	2 sec			
7.	Max Age	20 sec			
8.	Forward Delay	15 sec			

SW3

No	Variabel	Nilai	Interface	Role	Status
1.	Root ID	32769 : 0030.F2EE.3343	Fa 0/1	Desg	FWD
2.	Priorty	32769	Fa 0/2	Root	FWD
3.	MAC Address	0060.3EA1.7E03	Fa 0/3	Desg	FWD
4.	Bridge ID	32769 : 0060.3EA1.7E03			
5.	Cost(0/1:0/2:0/3)	0/1 = 19 0/2 = 19 0/3 = 19			
6.	Hello Time	2 sec			
7.	Max Age	20 sec			
8.	Forward Delay	15 sec			

TUGAS 4C :

Root Bridge : SW 1

Designated bridge : SW 1 (Fa 0/1, Fa 0/2, Fa 0/3)

Root port : SW 2 (Fa 0/2) dan SW 3 (Fa 0/2)

Designated port : SW 2 (Fa 0/1 dan Fa 0/3) dan SW 3 (Fa 0/1)

TUGAS 4D :

Berada pada kondisi *forwarding* : SW 1 dan SW 2

Berada pada kondisi *blocking* : SW 3

TUGAS 5A :

Pilih PC yang akan dilakukan ping , lalu pilih desktop ,pilih command prompt lalu ketik “ ping 172.21.1.2 (sesuai IP yang akan dilakukan test ping)

TUGAS 6A

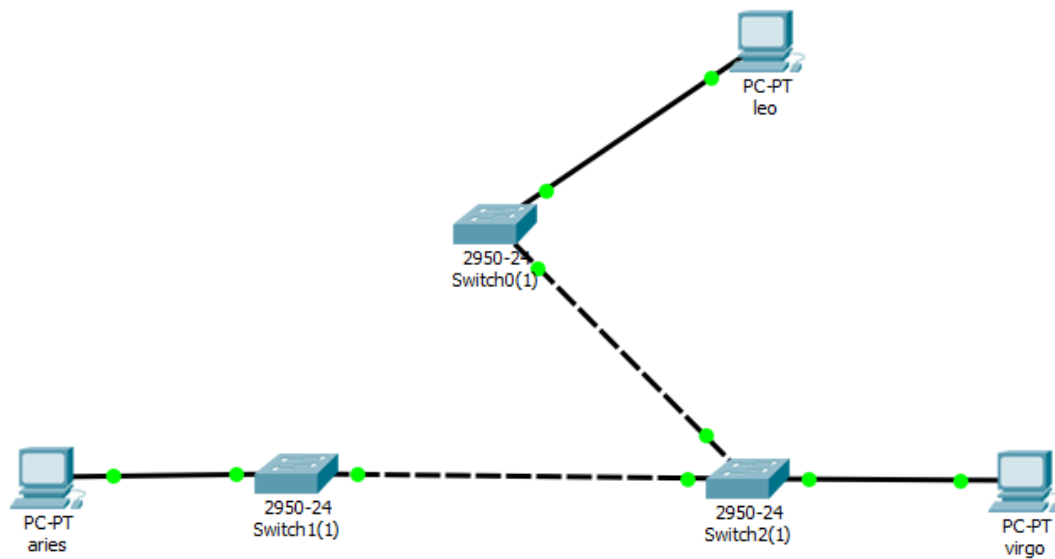
Pilih switch lalu pilih CLI masuk ke mode user/privillage kemudian tulis

Switch#copy running-config startup-config

Lalu enter

Simpan konfigurasi jaringan dengan nama lab2.pkt

TUGAS 9A



Switch0

Physical
Config
CLI
Attributes

IOS Command Line Interface

```

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000D.BD72.A792
             This bridge is the root
             Hello Time 2 sec  Max Age 20 sec  Forward Delay 15
sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     000D.BD72.A792
             Hello Time 2 sec  Max Age 20 sec  Forward Delay 15
sec

             Aging Time 20

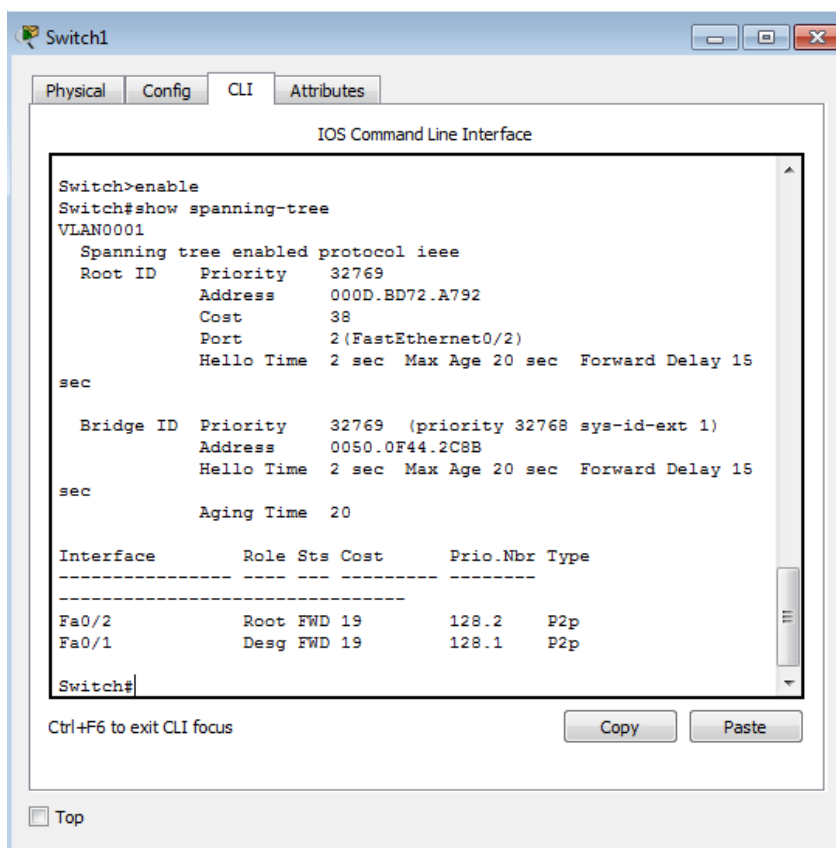
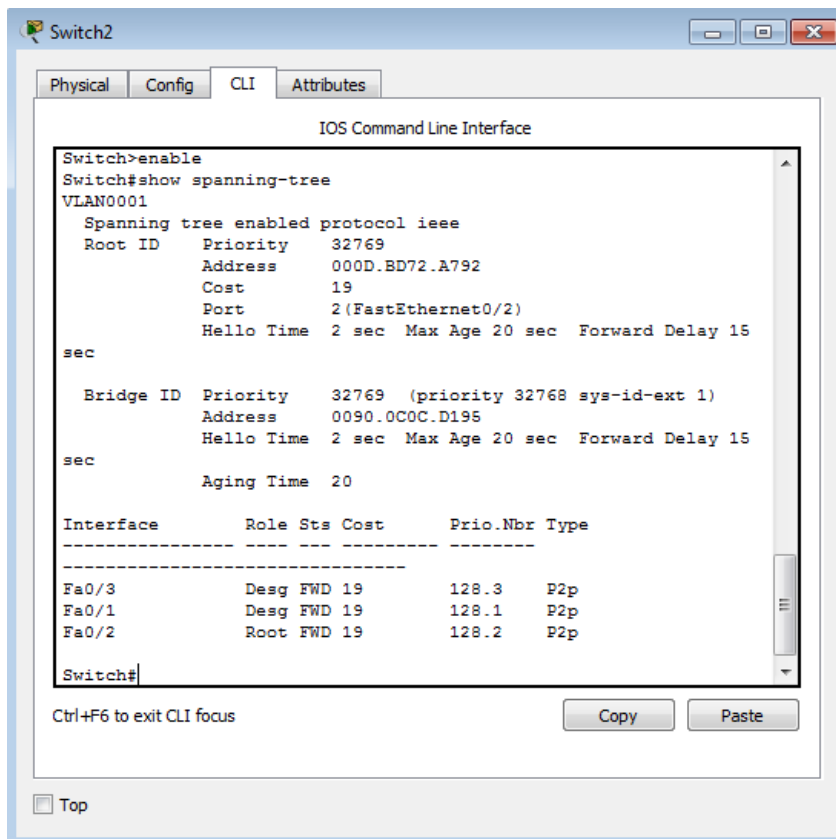
Interface      Role Sts Cost      Prio.Nbr Type
-----
Fa0/1          Desg FWD 19        128.1    P2p
Fa0/2          Desg FWD 19        128.2    P2p

Switch#

```

Ctrl+F6 to exit CLI focus
Copy
Paste

Top



SW 1

Root ID : 32769, 000D.BD72.A792

Priority : 32769

MAC Address : 000D.BD72.A792

Bridge Id : 32769, 000D.BD72.A792

Cost : 19

Hello time : 2 sec

Max Age : 20 sec

Forward Delay : 15

Interface	Role	Sts	Cost
Fa 0/1	Desg	FWD	19
Fa 0/2	Desg	FWD	19

SW 2

Root ID : 32769, 000D.BD72.A792

Priority : 32769

MAC Address : 000D.BD72.A792

Bridge Id : 32769, 0090.0C0C.D195

Cost : 19

Hello time : 2 sec

Max Age : 20 sec

Forward Delay : 15

Interface	Role	Sts	Cost
Fa 0/3	Desg	FWD	19
Fa 0/1	Desg	FWD	19
Fa 0/2	Root	FWD	19

SW 3

Root ID : 32769, 000D.BD72.A792

Priority : 32769

MAC Address : 000D.BD72.A792

Bridge Id : 32769, 0050.0F44.2C8B

Cost : 19

Hello time : 2 sec

Max Age : 20 sec

Forward Delay : 15

Interface	Role	Sts	Cost
Fa 0/2	Root	FWD	19
Fa 0/1	Desg	FWD	19

Root Bridge : SW 2

Designated Bridge : SW 2 (Fa 0/1 , Fa 0/2 dan Fa 0/3)

Root port : SW 2 (Fa 0/2) dan SW 3 (Fa 0/2)

Designated Port : SW 1 (Fa 0/1 dan Fa 0/2) dan SW 3 (Fa 0/1)

Berada pada kondisi *forwarding* : SW 1 , SW 2 dan SW 3

Berada pada kondisi *blocking* : -