LAPORAN PRAKTIKUM JARINGAN KOMPUTER
MODUL VI
“SPANNING TREE PROTOCOL

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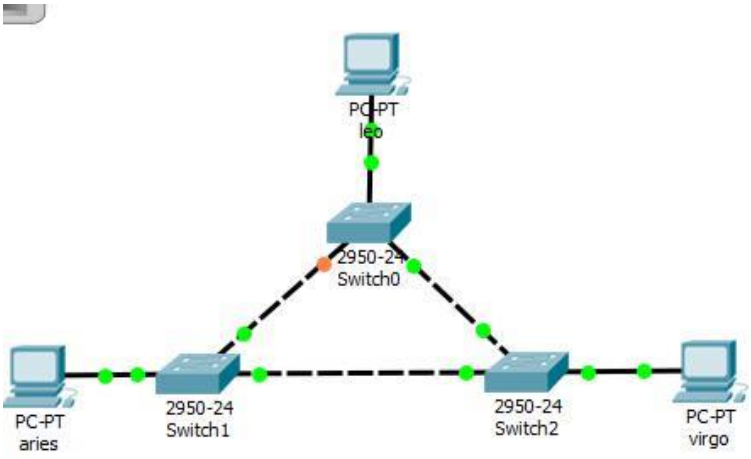
KELAS : C

KEGIATAN PRAKTIKUM

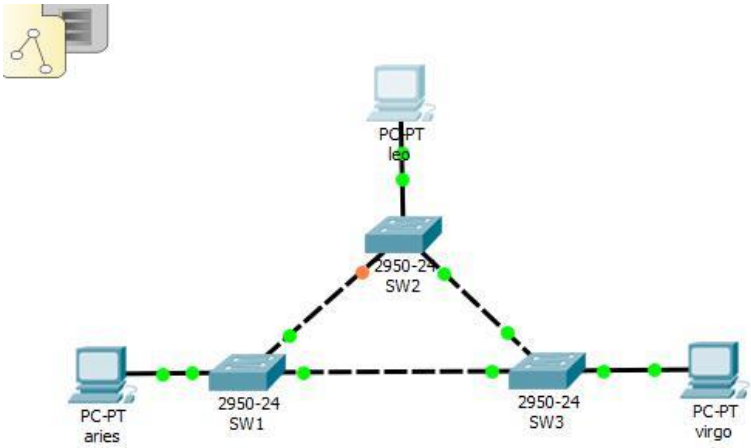
Kegiatan 1. Topologi 1

1.Membuat topologi menggunakan switch Catalyst 2950



Tugas 1A: Langkah pembuatan topologi
-susun 3 buah switch catalyst 2950 secara rapi
-tambahkan 3 buah PC
-hubungkan setiap PC dan switch menggunakan kabel

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



Tugas 2A: langkah-langkah pemberian nama switch mulai dari mode user

-pertama masuk ke mode user dengan mengetik “enable”

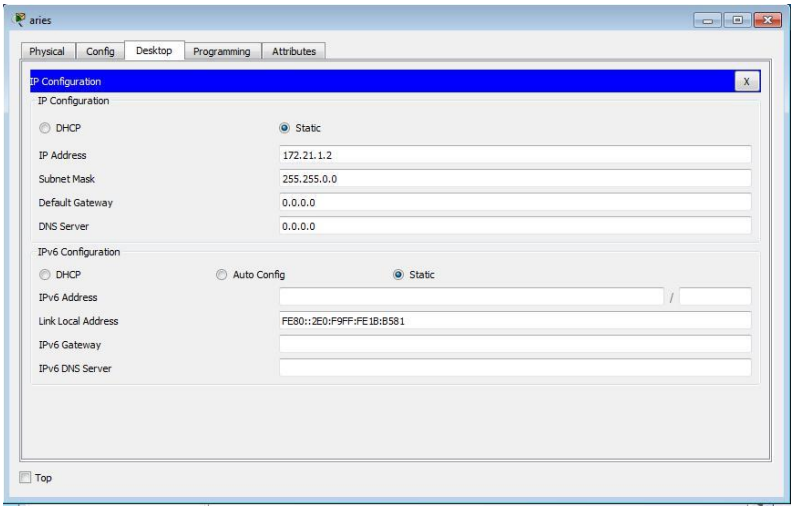
-untuk mengkonfigurasi harus mengganti ke mode global dengan cara mengetik “conf term”

-untuk mengganti nama switch dapat dilakukan dengan mengetik “hostname SW1,SW2,SW3”

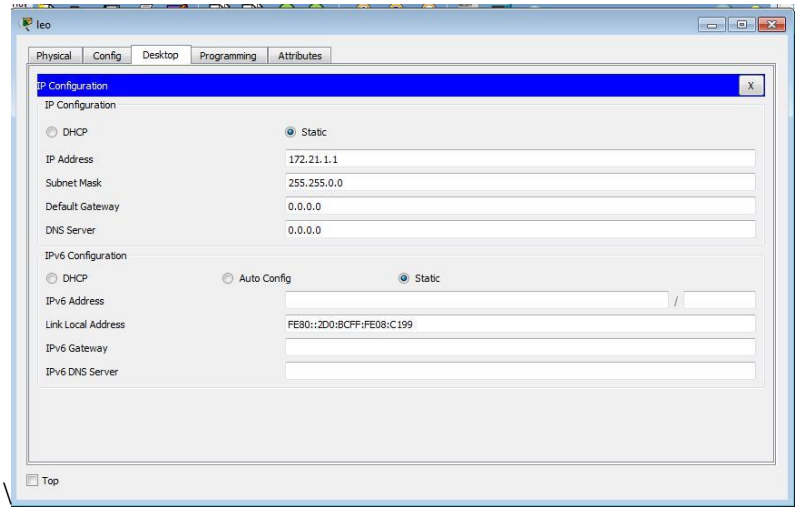
-lalu keluar dari mode global dengan mengetik “exit”

3.Konfigurasi masing-masing PC dengan alamat IP

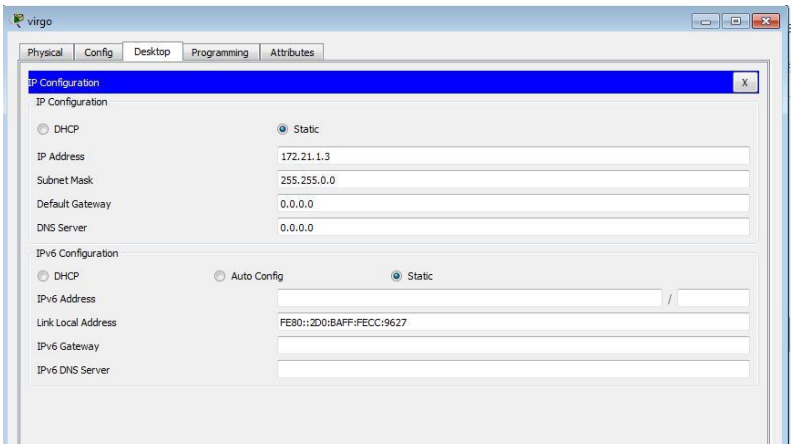
Aries = 172.21.1.2



Leo = 172.21.1.1



Virgo = 172.21.1.3



4.Melihat status STP pada masing-masing switch

>>**SW2**

```
1005 trnet-default                  active
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.C906.669A
             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     0060.5C3D.C162
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
             Aging Time  20

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

Switch#
```

>> **SW1**

```
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.C906.669A
             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     000B.BED7.39AE
             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            Root FWD 19        128.2    P2p
Fa0/3            Desg FWD 19        128.3    P2p
```

>> **SW3**

```
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.C906.669A
             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     0001.C906.669A
             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
Fa0/3            Desg FWD 19        128.3    P2p
```

Tugas 4B

SW1

NO	VARIABEL	NILAI
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.C906.669A
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20
8	Forward Delay	15

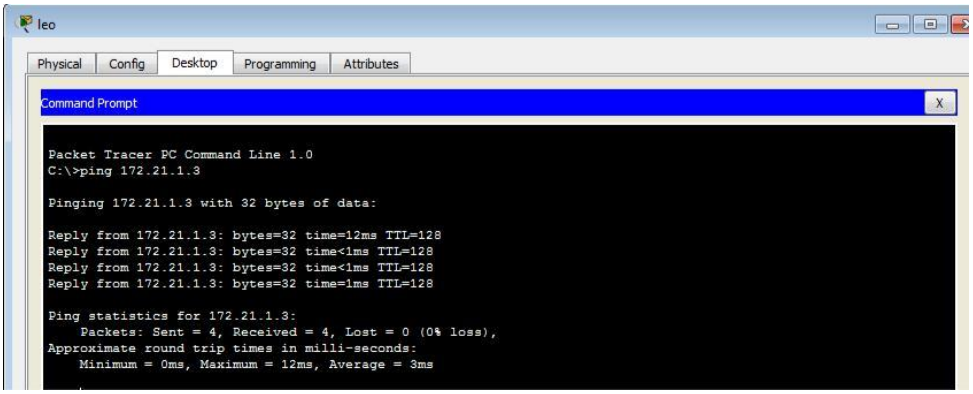
SW2

NO	VARIABEL	NILAI
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.C906.669A
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20
8	Forward Delay	15

SW3

NO	VARIABEL	NILAI
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.C906.669A
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	Max Age	20
8	Forward Delay	15

5.Melakukan ping dari PC Leo ke PC Virgo



Tugas 5A: Langkah melakukan ping

-buka command prompt pada PC Leo

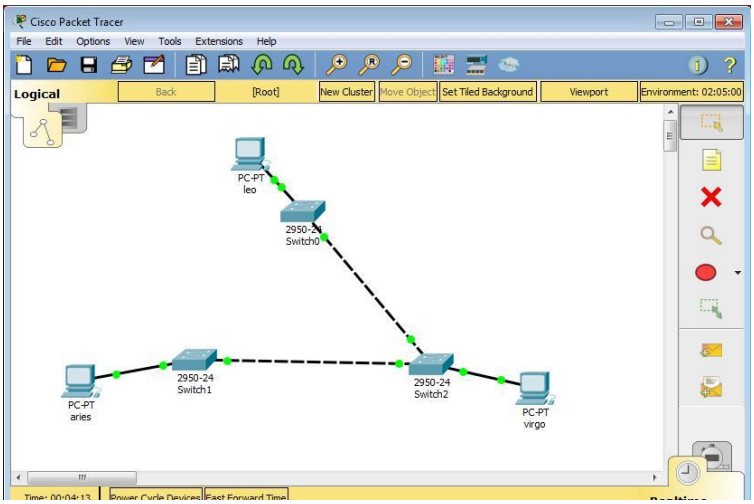
-ketik ping 172.21.1.3

6.Menyimpan konfigurasi jaringan dengan nama lab2.pkt

Tugas 6A: langkah menyimpan konfigurasi jaringan dengan cara mengetikkan pada mode user “write”

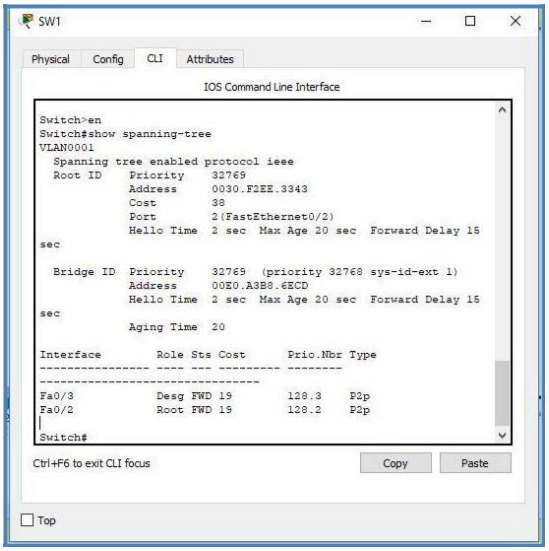
Kegiatan 2. Topologi 2

Membuat topologi menjadi seperti berikut

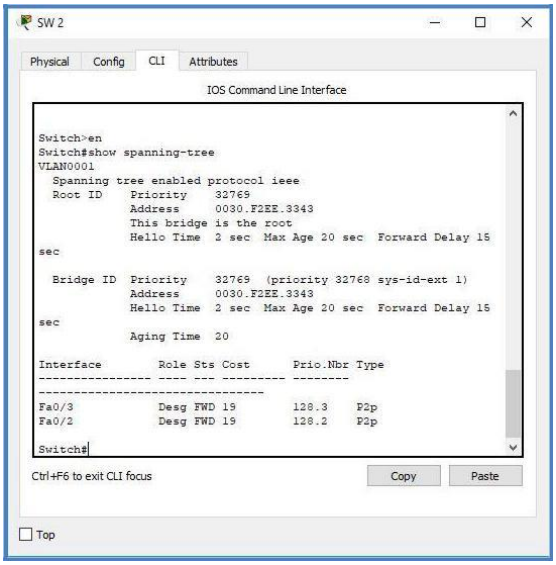


Melihat status STP pada masing-masing switch.

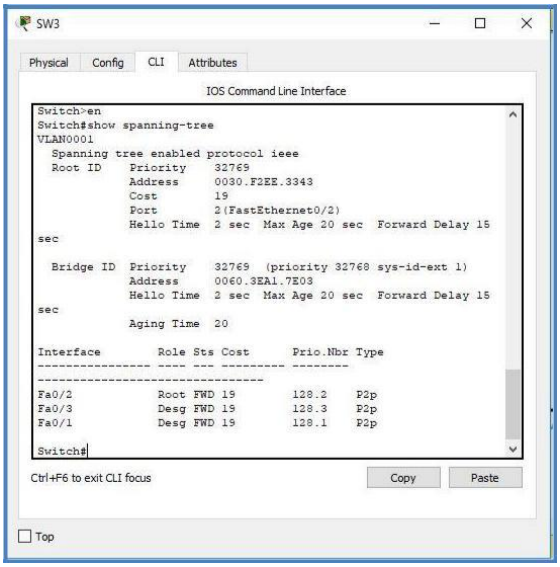
>>SW1



>>**SW2**



>>**SW3**



Melakukan ping dari PC Leo ke PC Virgo