

LAPORAN PRAKTIKUM

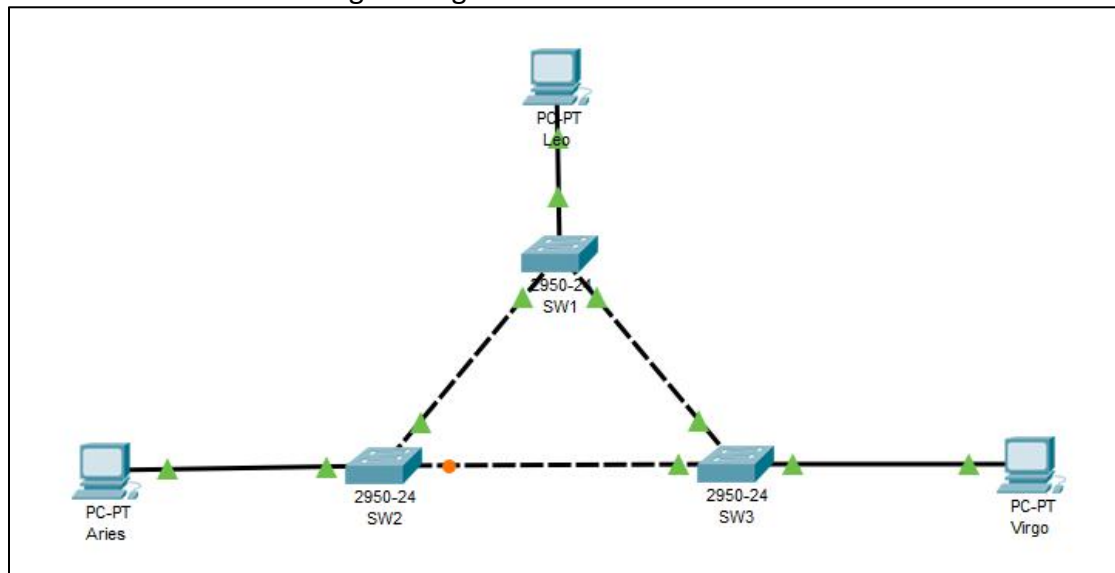
JARINGAN KOMPUTER

MODUL 6. SPANNING TREE PROTOCOL

C. Kegiatan Praktikum

Kegiatan 1. Topologi 1

- Membuat topologi berikut
- Memberi nama masing-masing switch



- Melakukan konfigurasi IP masing-masing PC

Leo

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address: 172.21.1.1

Subnet Mask: 255.255.0.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Aries

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address: 172.21.1.2

Subnet Mask: 255.255.0.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Virgo

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address 172.21.1.3

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

d. Melihat status STP

SW1

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address     0001.64A8.E7E1
            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     0001.64A8.E7E1
            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
```

SW2

Physical
Config
CLI
Attributes

IOS Command Line Interface

```

Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address     0001.64A8.E7E1
              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     00E0.8F40.85A9
              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                    Altn BLK 19        128.2    P2p
Fa0/3                    Desg FWD 19        128.3    P2p

```

SW3

Physical
Config
CLI
Attributes

IOS Command Line Interface

```

changed state to up

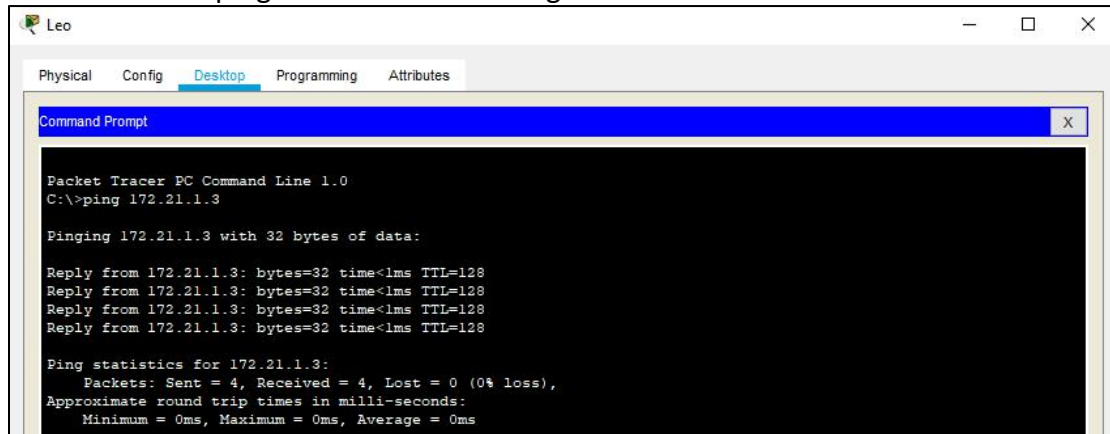
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address     0001.64A8.E7E1
              Cost        19
              Port        2(FastEthernet0/2)
              Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

    Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
              Address     0006.2A68.9260
              Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
              Aging Time  20

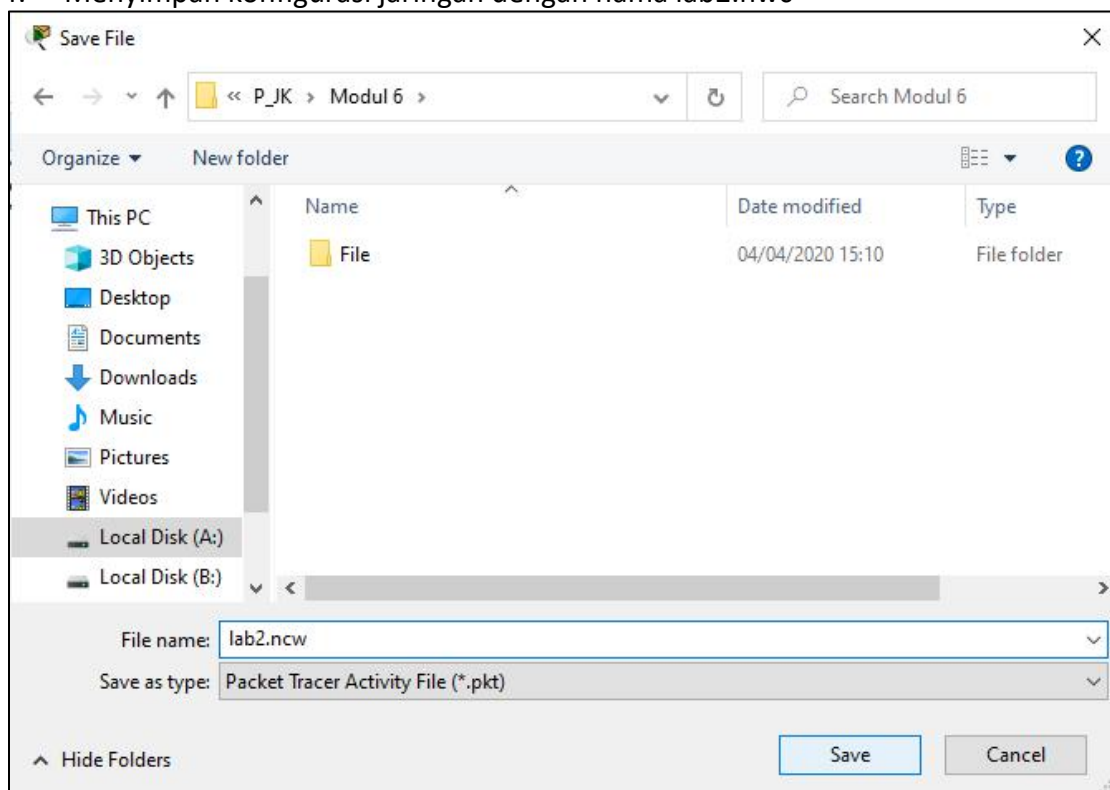
Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/3                    Desg FWD 19        128.3    P2p
Fa0/2                    Root FWD 19        128.2    P2p
Fa0/1                    Desg FWD 19        128.1    P2p

```

e. Melakukan ping dari PC Leo ke PC Virgo

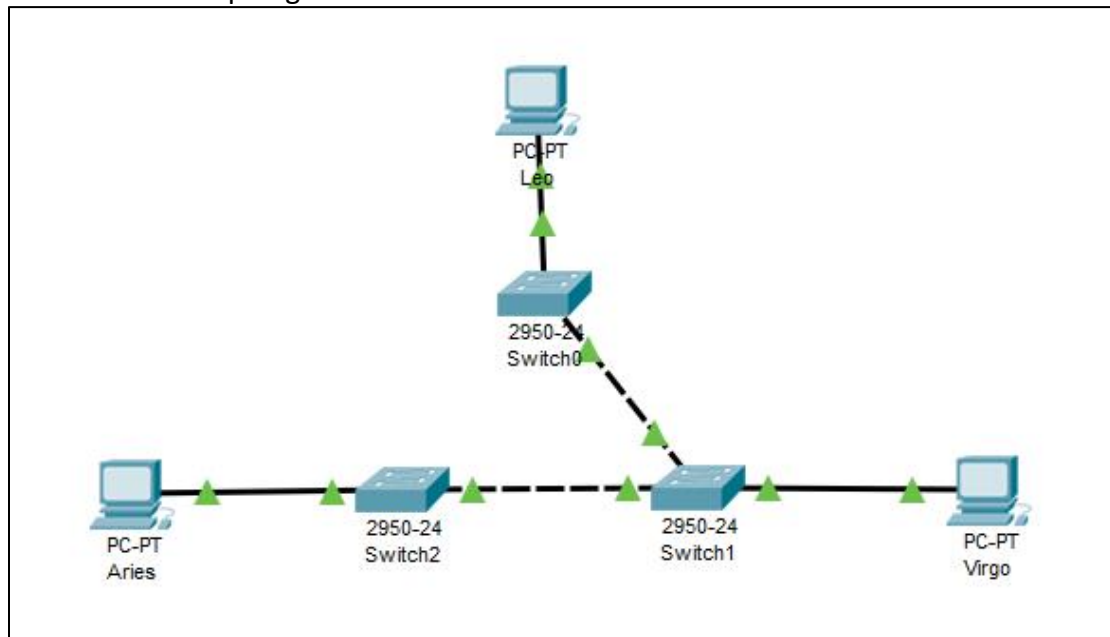


f. Menyimpan konfigurasi jaringan dengan nama lab2.nwc

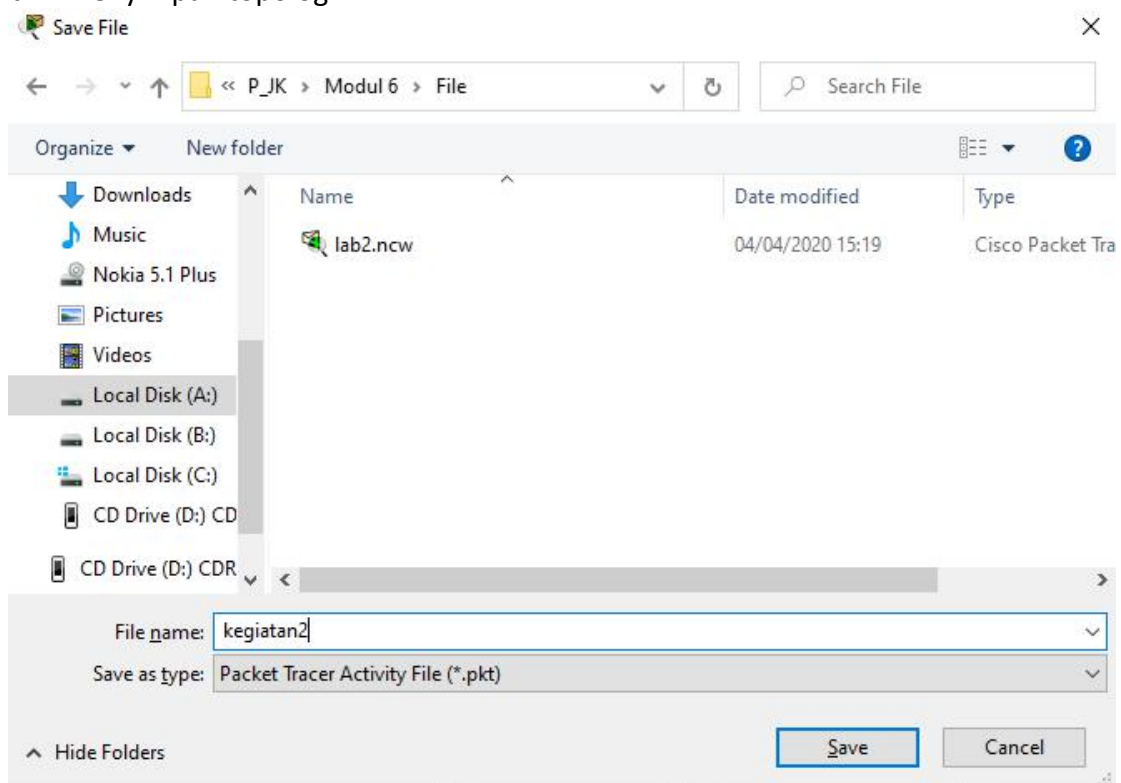


Kegiatan 2. Topologi 2

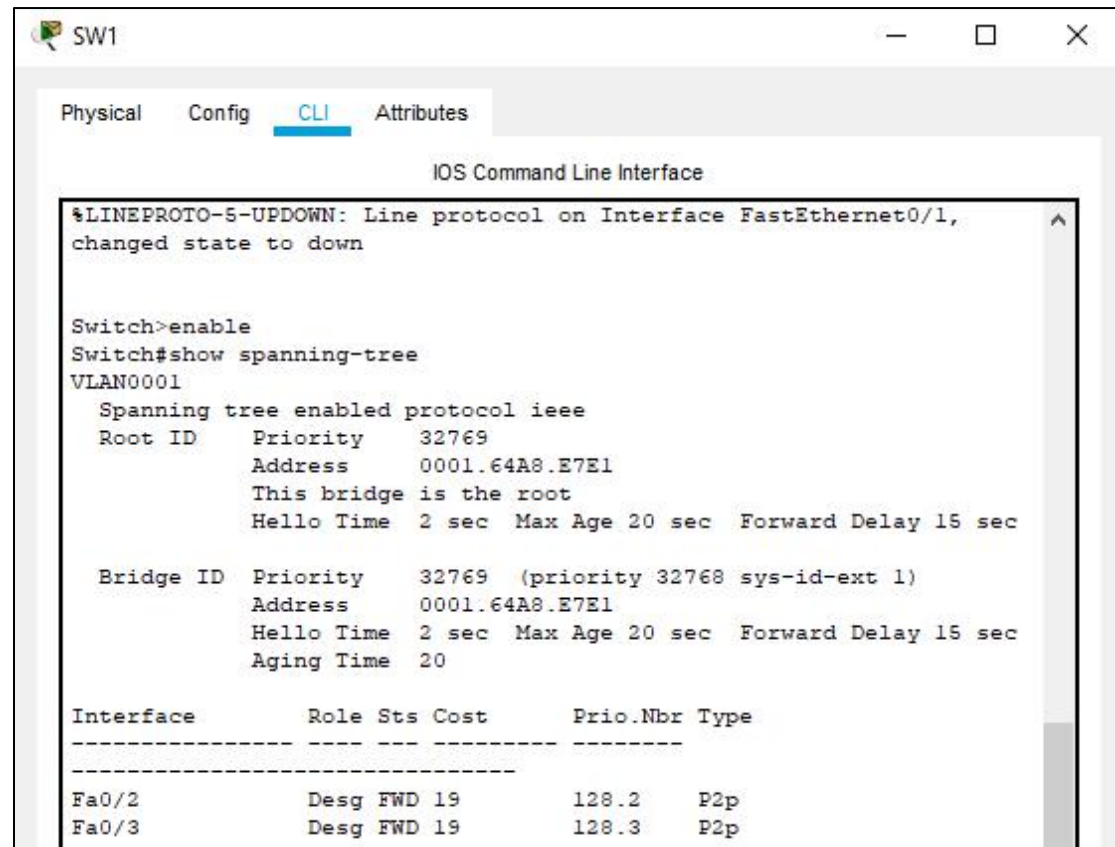
a. Membuat topologi berikut



b. Menyimpan topologi



c. Melihat status STP



```

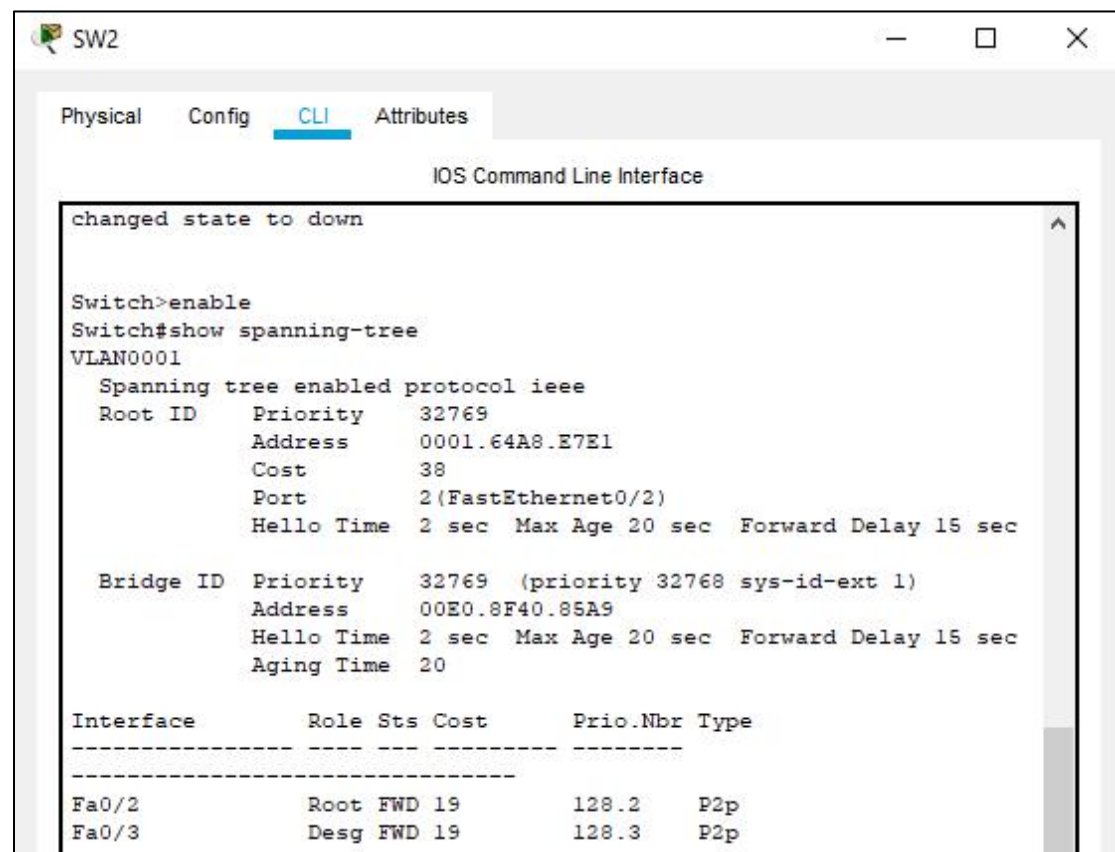
SW1
Physical Config CLI Attributes
IOS Command Line Interface

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to down

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address      0001.64A8.E7E1
            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      0001.64A8.E7E1
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20

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



```

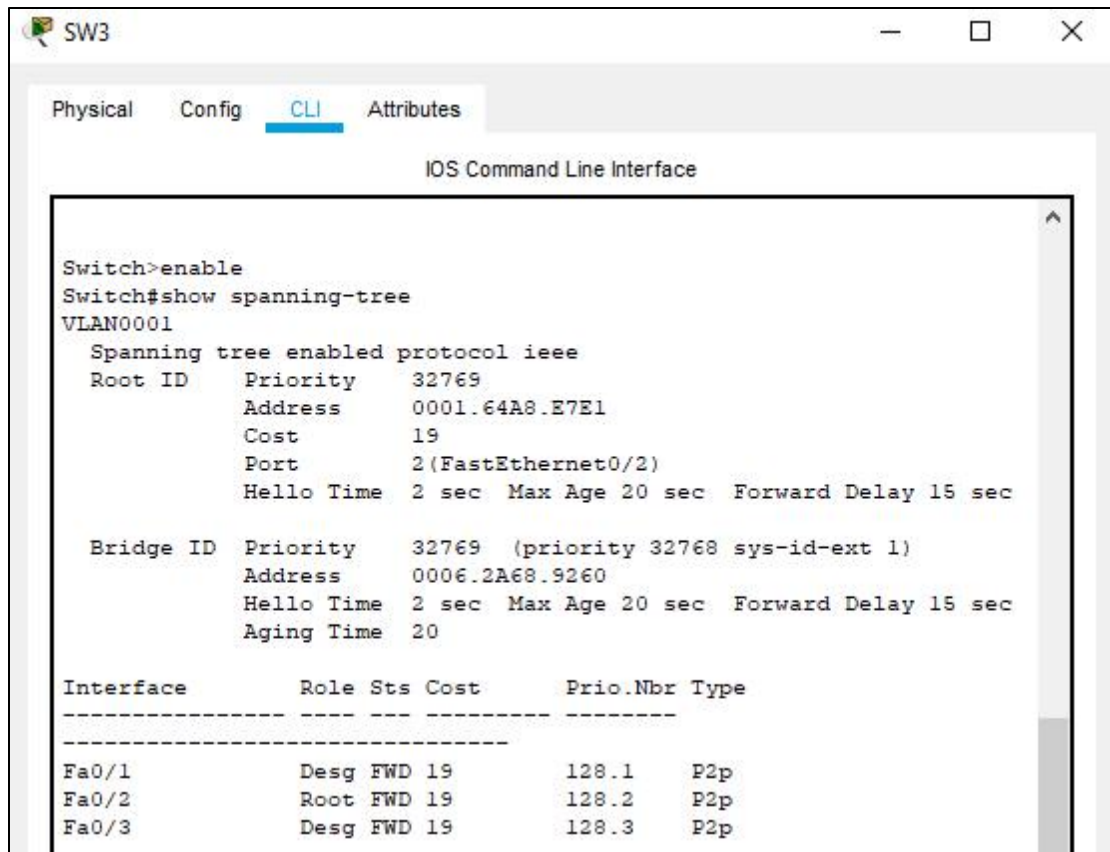
SW2
Physical Config CLI Attributes
IOS Command Line Interface

changed state to down

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address      0001.64A8.E7E1
            Cost          38
            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      00E0.8F40.85A9
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20

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

d. Melakukan ping dari PC Leo ke PC Virgo

