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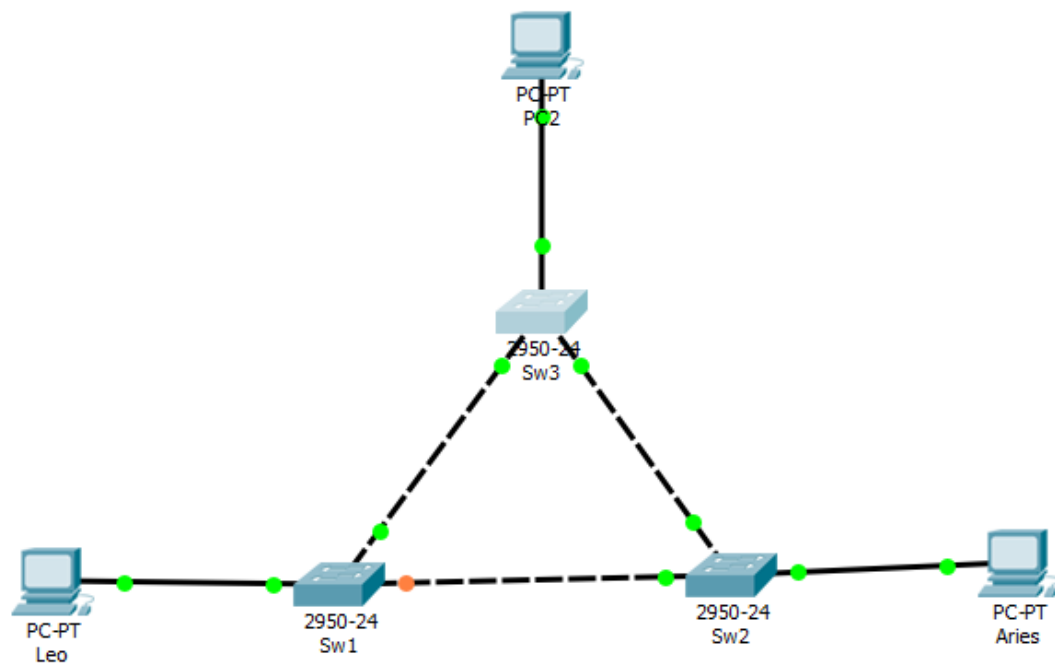
NIM : L200170058

Kelas : B

Modul : 6

Kegiatan 1

1. Topologi



Time

2. Konfigurasi alamat

IP ☐ Leo

PC0

Physical Config Desktop Programming Attributes

IP Configuration

☐ 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

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:58FF:FE8B:A2AC

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

☐ Aries

Aries

Physical Config Desktop Programming Attributes

IP Configuration

☐ 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

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

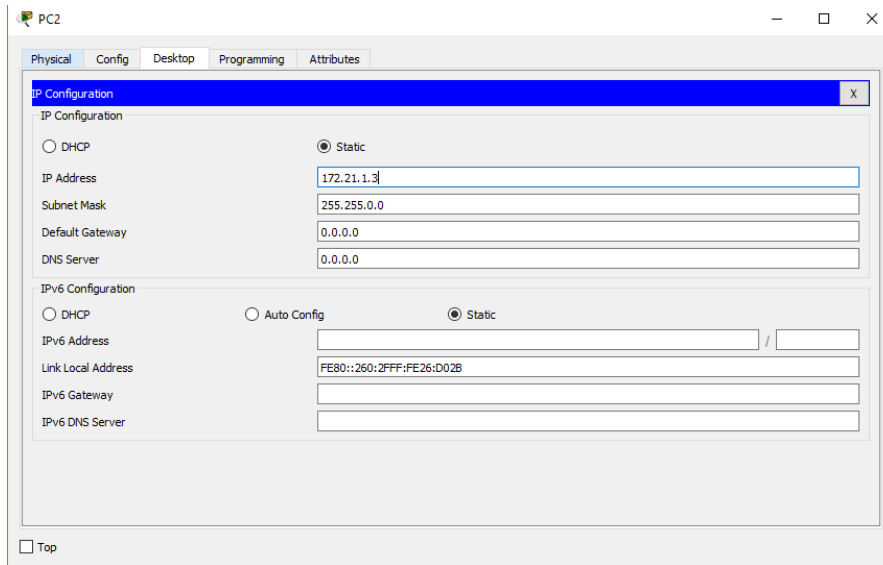
Link Local Address: FE80::201:C7FF:FE7E:9408

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

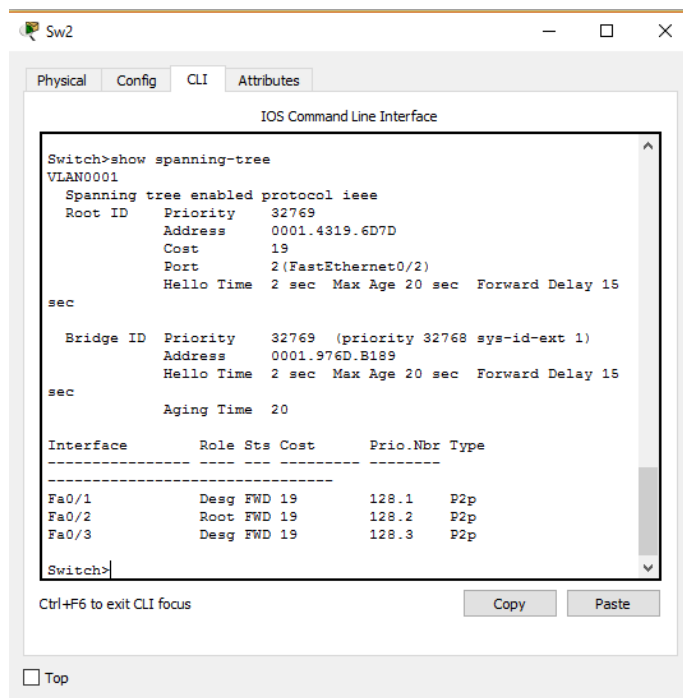
- Virgo



The screenshot shows the 'IP Configuration' window for PC2. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Config' tab is active, showing the 'IP Configuration' section. Under 'IP Configuration', the 'Static' radio button is selected. The fields are filled with: IP Address: 172.21.1.3, Subnet Mask: 255.255.0.0, Default Gateway: 0.0.0.0, and DNS Server: 0.0.0.0. Below this, the 'IPv6 Configuration' section has the 'Static' radio button selected. The fields are: IPv6 Address: (empty), Link Local Address: FE80::260:2FFF:FE26:D02B, IPv6 Gateway: (empty), and IPv6 DNS Server: (empty). A 'Top' button is at the bottom left.

3. Show spanning-tree pada masing-masing switch

□ SW1



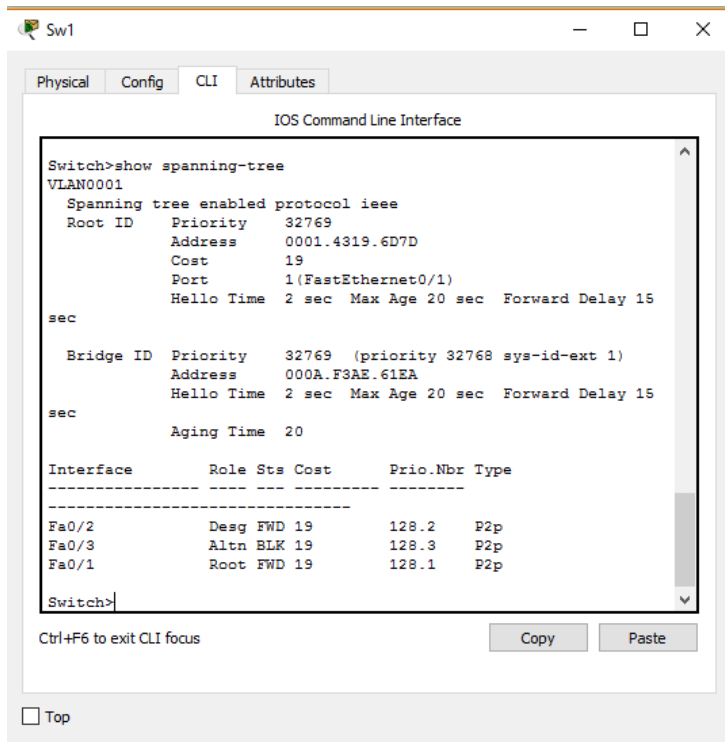
The screenshot shows the 'Sw2' CLI window with the 'CLI' tab active. The command 'show spanning-tree' has been executed, displaying the following output:

```
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.4319.6D7D
             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     0001.976D.B189
             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
```

The output shows the spanning-tree configuration for VLAN0001, including the root ID, bridge ID, and the roles of the interfaces Fa0/1, Fa0/2, and Fa0/3. A 'Top' button is at the bottom left.

☐ SW2



Sw1

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0001.4319.6D7D
            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    000A.F3AE.61EA
            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        Altn BLK 19       128.3    P2p
Fa0/1        Root FWD 19       128.1    P2p

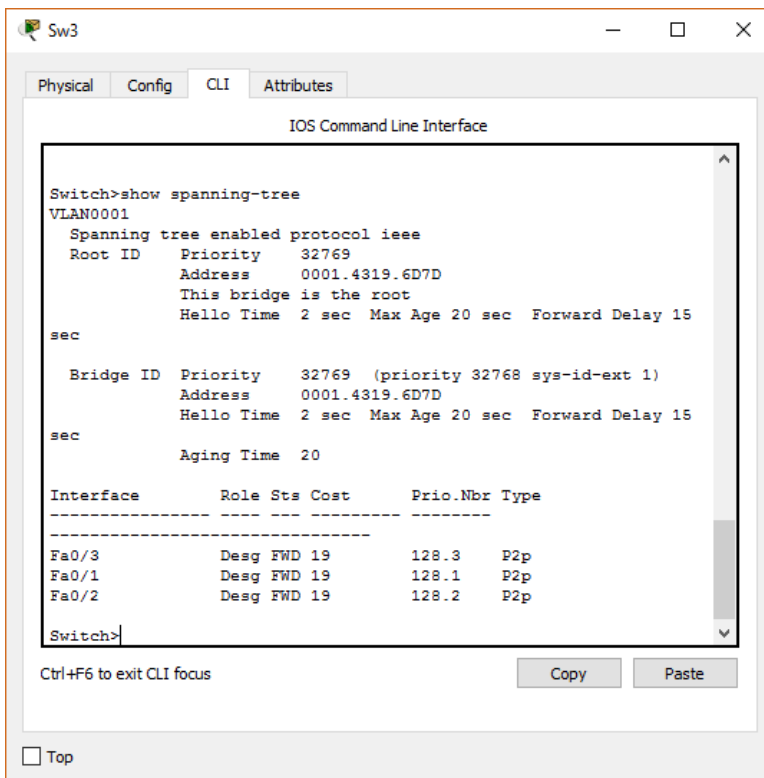
Switch>
```

Ctrl+F6 to exit CLI focus

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☐ Top

- SW3



Sw3

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0001.4319.6D7D
            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    0001.4319.6D7D
            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
Fa0/1        Desg FWD 19       128.1    P2p
Fa0/2        Desg FWD 19       128.2    P2p

Switch>
```

Ctrl+F6 to exit CLI focus

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☐ Top

Tabel SW1

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 00E0.8F05.8320
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

Tabel SW2

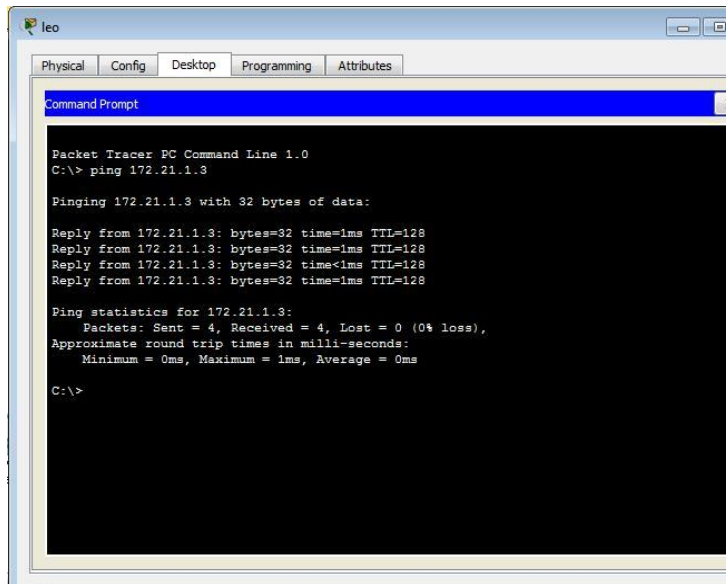
No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 0010.1159.5366
5.	Cost (0/1; 0/2; 0/3)	0/1 : 19; 0/2 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

Tabel SW3

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 001.641D.3ACE
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

- ☐ Root bridge : SW3
- ☐ Designated bridge : SW1
- ☐ Root port : SW2
- ☐ Designated port : -
- ☐ Port kondisi forwarding
 - SW1 : Fa 0/1, Fa 0/3
 - SW2 : Fa 0/1, Fa 0/2, Fa 0/3
 - SW3 : Fa 0/1, Fa 0/2, Fa 0/3
- ☐ Port kondisi blocking : SW1 Fa 0/2

4. Ping dari PC Leo ke PC Virgo



The screenshot shows a Packet Tracer PC Command Line window for PC Leo. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Command Prompt is open, displaying the results of a ping command to 172.21.1.3. The output shows four successful replies with 0% loss and 0ms round trip times.

```
Packet Tracer PC Command Line 1.0
C:\> ping 172.21.1.3

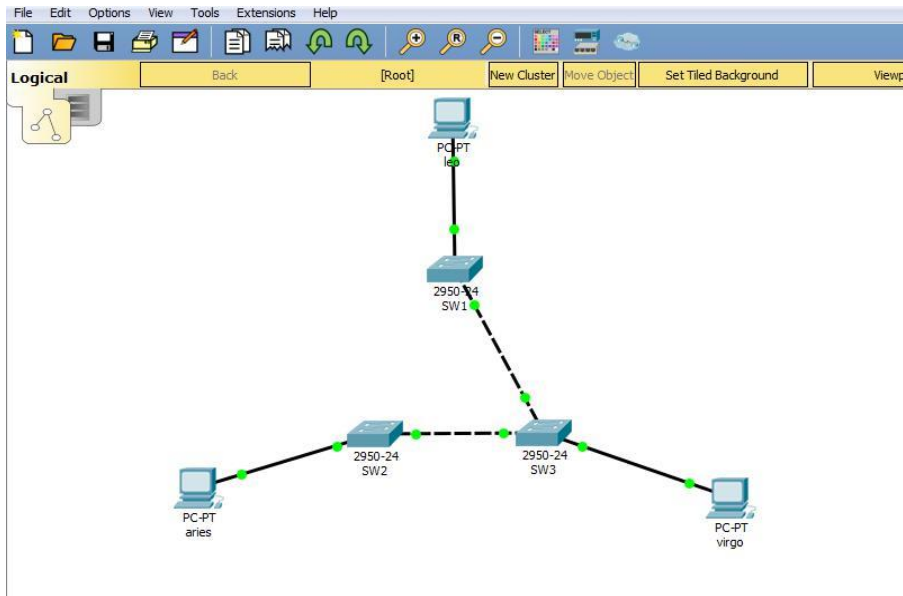
Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=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
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 = 1ms, Average = 0ms

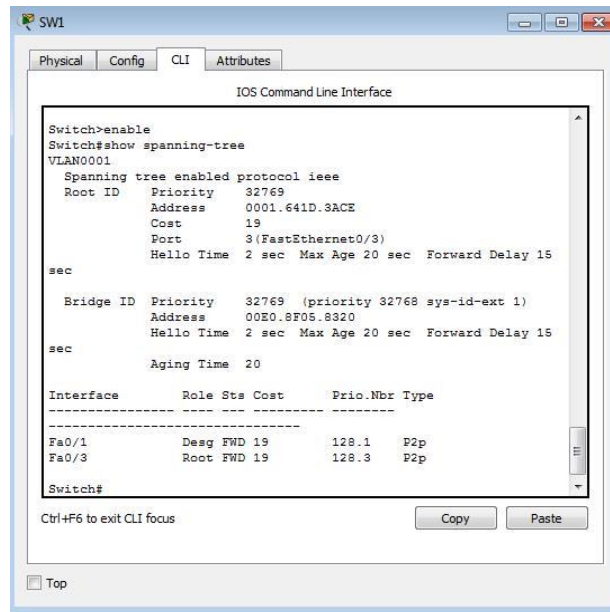
C:\>
```


Kegiatan 2



2. Show spanning tree pada masing-masing switch

- SW1



SW1

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    0001.641D.3ACE
            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    00E0.8F05.8320
            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
Fa0/3       Root FWD 19       128.3    P2p

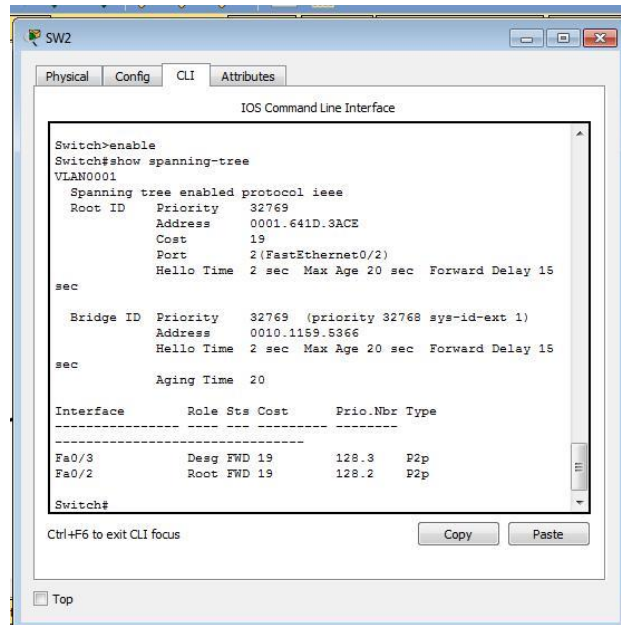
Switch#
```

Ctrl+F6 to exit CLI focus

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☐ Top

- SW2



SW2

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    0001.641D.3ACE
            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    0010.1159.5366
            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

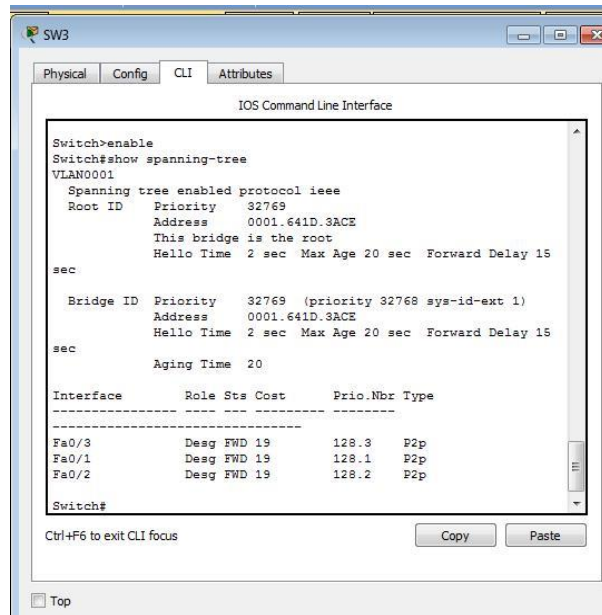
Switch#
```

Ctrl+F6 to exit CLI focus

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☐ Top

- SW3



Tabel SW1

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 00E0.8F05.8320
5.	Cost (0/1; 0/2; 0/3)	0/1 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

Tabel SW2

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 0010.1159.5366
5.	Cost (0/1; 0/2; 0/3)	0/2 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

Tabel SW3

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 001.641D.3ACE
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

- ☐ Root bridge : SW3
- ☐ Designated bridge : -
- ☐ Root port : SW1, SW2
- ☐ Designated port : -

- ☐ Port kondisi forwarding
 - SW1 : Fa 0/1, Fa 0/3
 - SW2 : Fa 0/2, Fa 0/3
 - SW3 : Fa 0/1, Fa 0/2, Fa 0/3
- ☐ Port kondisi blocking : -