

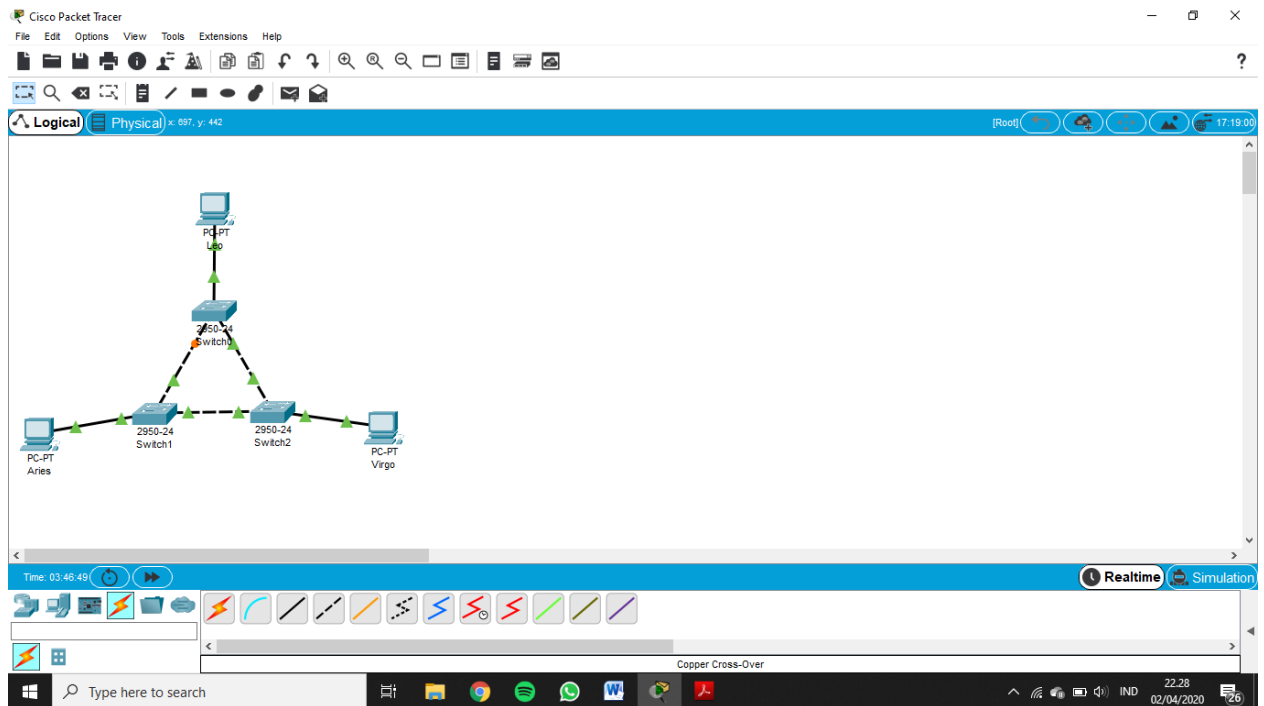
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NIM : L200180025

Kelas : A

MODUL 6

Kegiatan 1. Topologi 1



Tugas 1A: Tulis langkah pembuatan topologi (Poin B)

- Memilih switch 2950-24 sebanyak 3 buah
- Memilih PC sebanyak 3 buah. Masing-masing PC diberi nama Leo, Aries, dan Virgo
- Sambungkan dengan kabel Copper Cross-Over dan kabel Copper Straight-Through
- Buat rangkaian seperti yang ada pada modul 6

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

Klik switch yang dipilih → Config → Global Setting → Ubah nama pada display name.

Poin C (Konfigurasi masing-masing PC dengan alamat IP).

Leo

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

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::20A:41FF:FE75:9CB8

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MDS

Username:

Password:

Top

Type here to search

23.36 04/04/2020

Aries

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

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::2E0:B0FF:FE35:5B55

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MDS

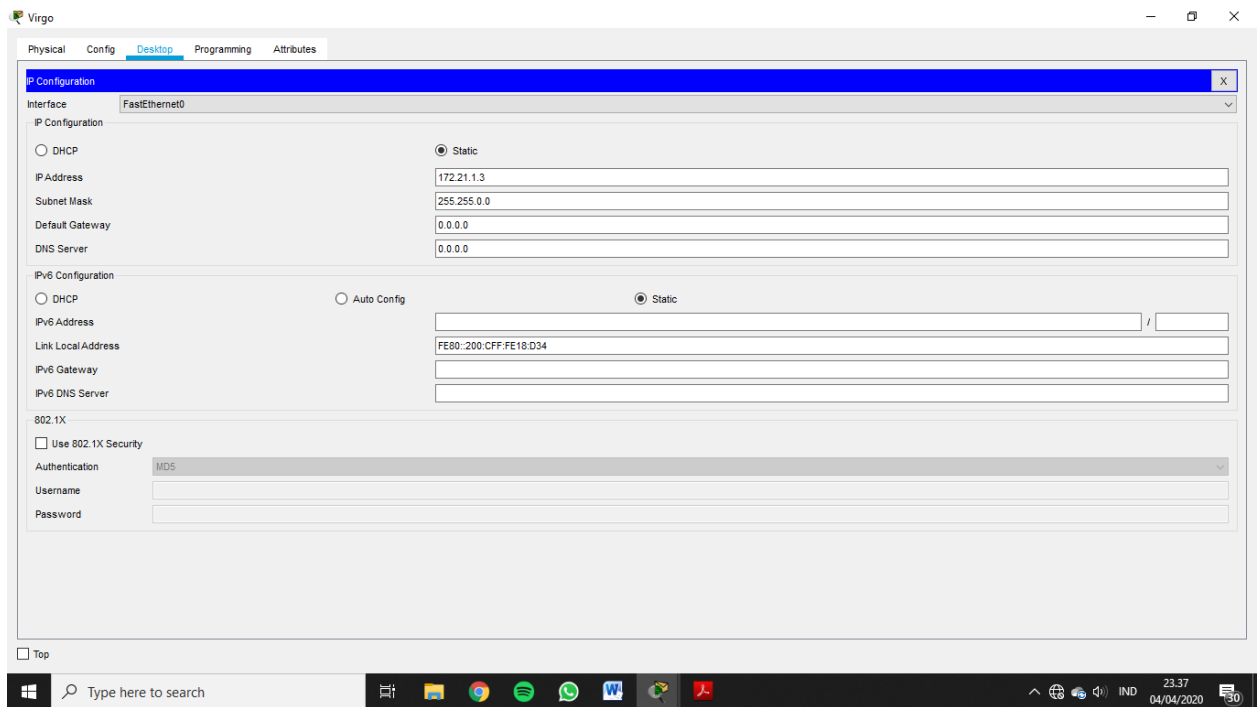
Username:

Password:

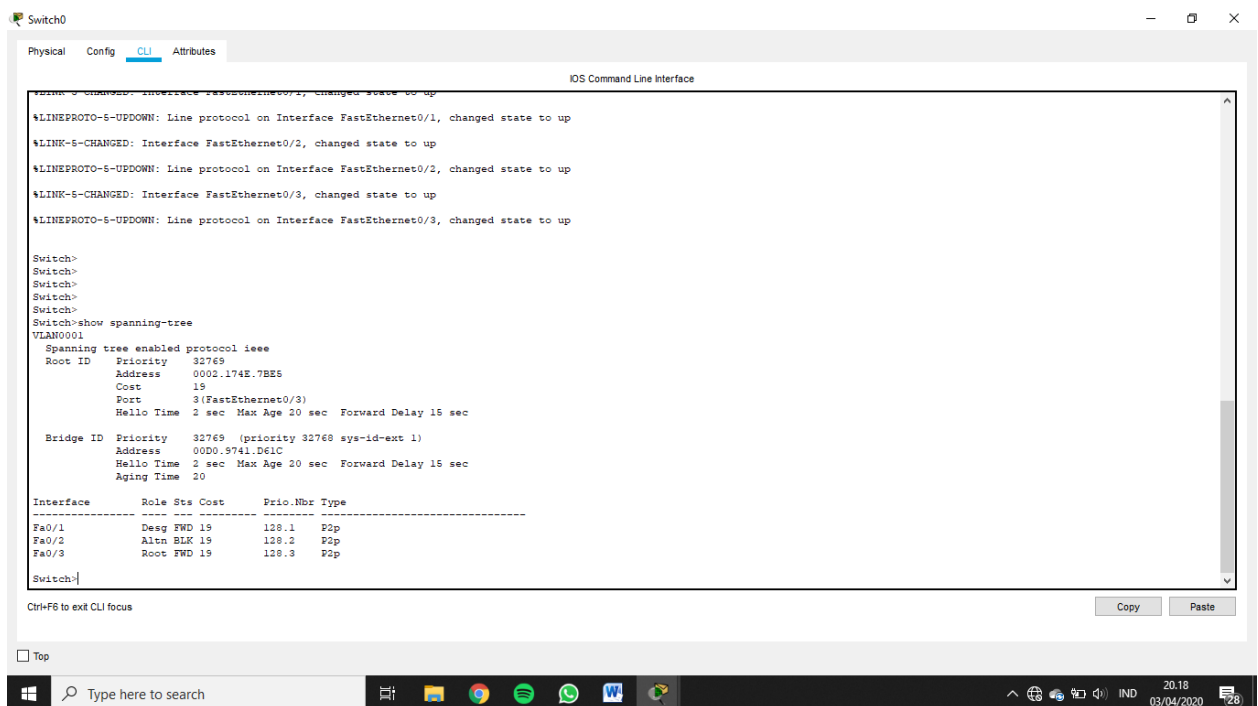
Top

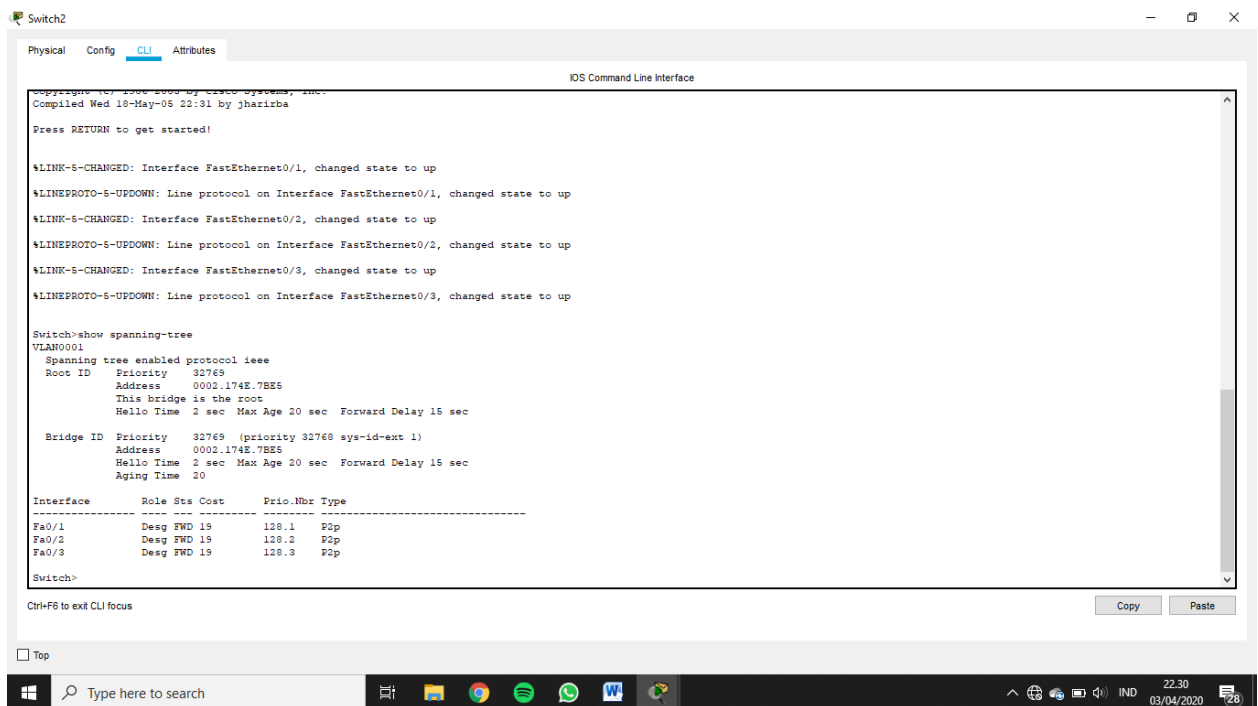
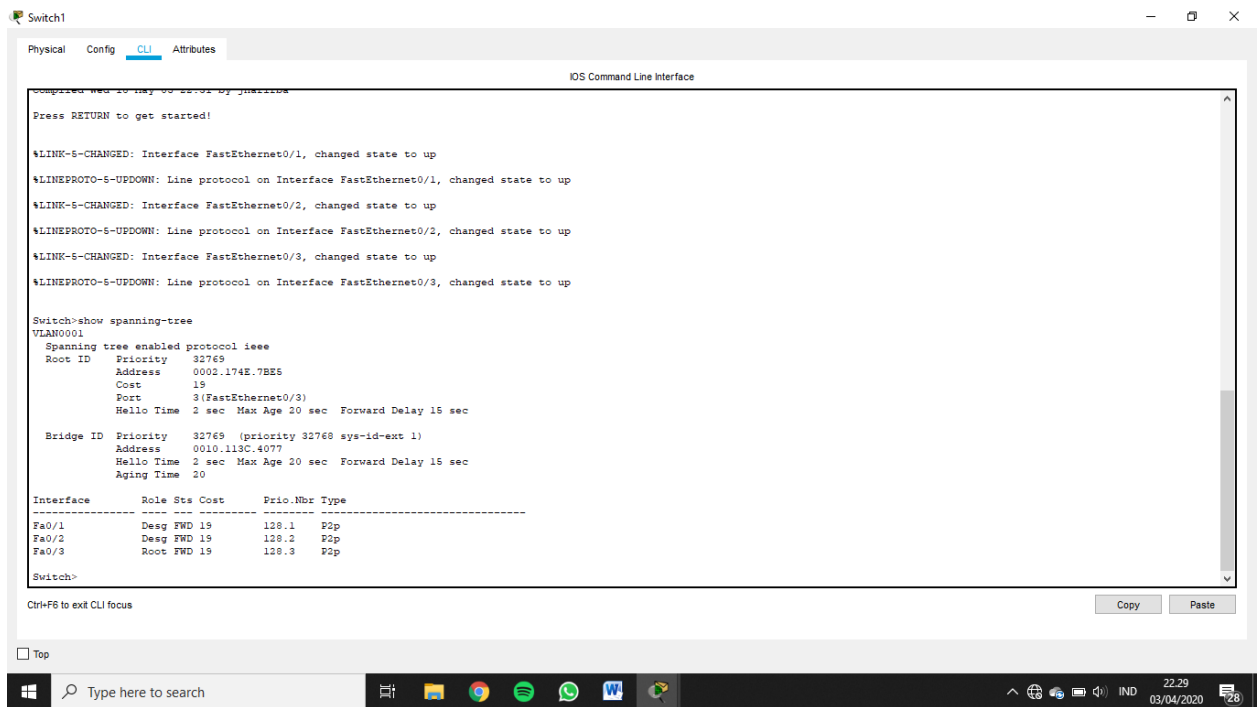
Type here to search

23.37 04/04/2020



Poin D. Tugas 4A dan 4B (Lihat status STP pada masing-masing switch)





Tugas 4C :

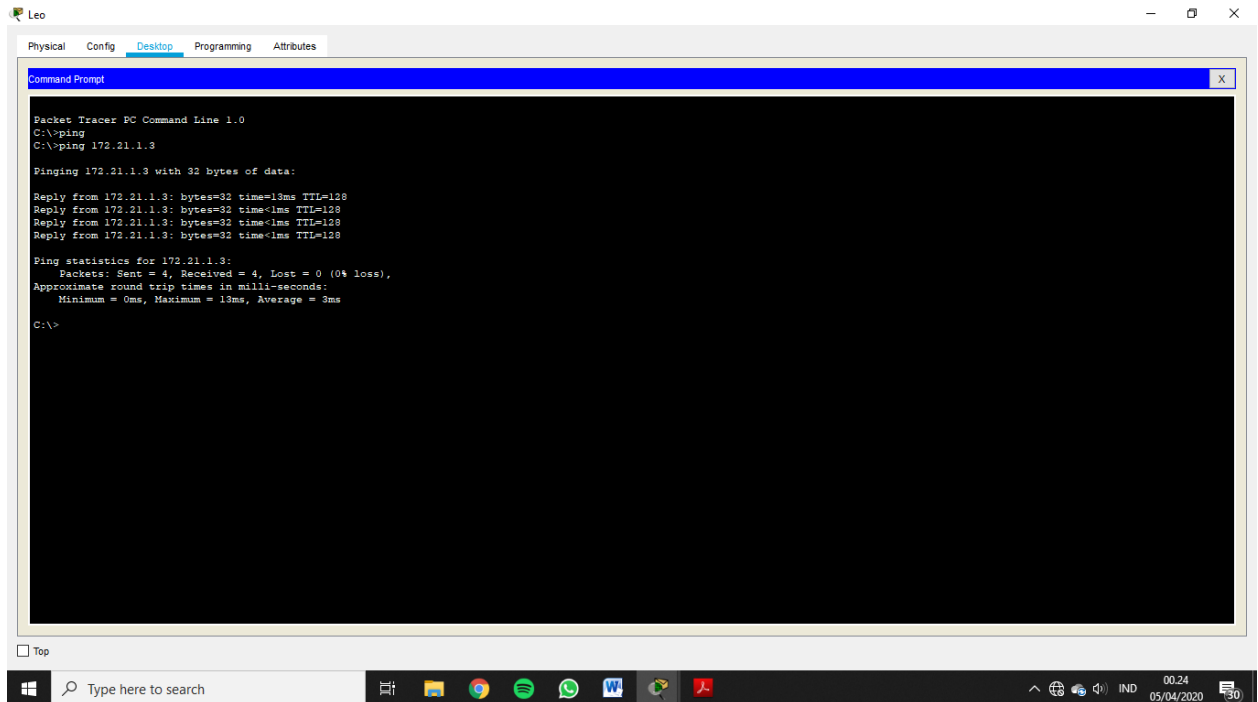
- Menjadi root bridge: SW2
- Menjadi designated bridge: SW2
- Menjadi root port: SW0(Fa0/2) dan SW1(Fa0/2)

- Menjadi designated port: SW0(Fa0/1, Fa0/3), SW1(Fa0/1) dan SW2(Fa0/1, Fa0/2, Fa0/3)

Tugas 4D :

- Forwarding: SW0(Fa0/1, Fa0/2, Fa0/3), SW1(Fa0/1, Fa0/2) dan SW2(Fa0/1, Fa0/2, Fa0/3)
- Blocking: SW1(Fa0/3)

Poin E (Ping PC Leo ke PC Virgo)



The screenshot shows the Packet Tracer PC Command Line interface for PC Leo. The 'Desktop' tab is selected, and the 'Command Prompt' window is open. The command prompt shows the following output:

```

Packet Tracer PC Command Line 1.0
C:\>ping
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=13ms 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 = 13ms, Average = 3ms

C:\>

```

The Windows taskbar at the bottom shows the date and time as 05/04/2020, 00:24.

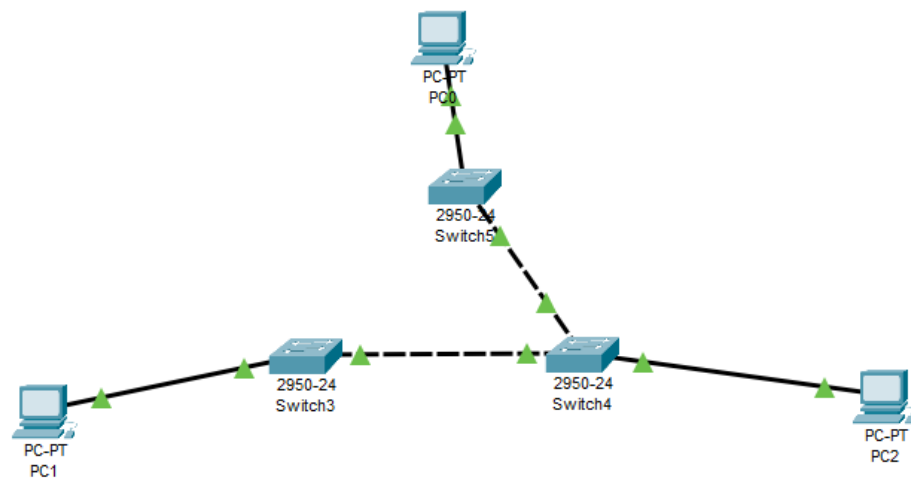
Tugas 5A

Klik PC Leo → Desktop → Command Prompt → Ping IP pada PC Virgo

Tugas 6A

Klik File → Save as → Direktori → Ketik “lab2.nwc” → Save

Kegiatan 2. Topologi 2



Tugas 9A

SW0

Physical Config **CLI** Attributes

IOS C

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address     0001.9646.3935
            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     0060.3E98.5E08
            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
Fa0/1              Desg FWD 19        128.1   P2p

Switch#show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type      Ports
-----
1       0001.4237.5c48   DYNAMIC   Fa0/2
1       0001.97c2.5c02   DYNAMIC   Fa0/2
1       0050.0fba.91ed   DYNAMIC   Fa0/1
1       00d0.d3c4.598c   DYNAMIC   Fa0/2
Switch#
```

Ctrl+F6 to exit CLI focus

☐ Top

SW0

No	Variabel	Nilai
1	Root ID	32769. 0001.9646.3935
2	Priority	32769
3	MAC Address	0001.4237.5c48
		0001.97c2.5c02
		0050.0fba.91ed
		00d0.d3c4.598c
4	Bridge ID	32769. 0060.3E88.5E08
5	Cost(0/1;0/2;0/3)	Cost 19, Port 0/2
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW1

Switch1

Physical Config **CLI** Attributes

```

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0001.9646.3935
            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    0090.0C43.AC2A
            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
Fa0/1                    Desg FWD 19        128.1    P2p

Switch#show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type      Ports
----    -
1       0001.97c2.5c03   DYNAMIC   Fa0/2

Switch#

```

Ctrl+F6 to exit CLI focus

SW1

No	Variabel	Nilai
1	Root ID	32769. 0001.9646.3935
2	Priority	32769
3	MAC Address	0001.97c2.5c03
4	Bridge ID	32769. 0090.0C43.AC2A
5	Cost(0/1;0/2;0/3)	Cost 19, Port 0/2
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

Switch2

PhysicalConfigCLIAttributes

IOS Command Line Inter

Switch>enable
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 0001.9646.3935
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 0001.9646.3935
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
Fa0/1 Desg FWD 19 128.1 P2p
Fa0/3 Desg FWD 19 128.3 P2p

Switch#show mac-address-table
Mac Address Table

Vlan Mac Address Type Ports

1 0050.0f02.4802 DYNAMIC Fa0/3
1 0060.2fe2.9602 DYNAMIC Fa0/2
Switch#

Ctrl+F6 to exit CLI focus

☐ Top

SW2

No	Variabel	Nilai
1	Root ID	32769. 0001.9646.3935
2	Priority	32769
3	MAC Address	0050.0f02.4802
		0060.2fe2.9602
4	Bridge ID	32769. 0001.9646.3935
5	Cost(0/1;0/2;0/3)	root
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Ping PC Leo ke PC Virgo



Physical Config **Desktop** Programming Attributes

Command Prompt

```
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=2ms 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 = 2ms, Average = 0ms

C:\>
```