

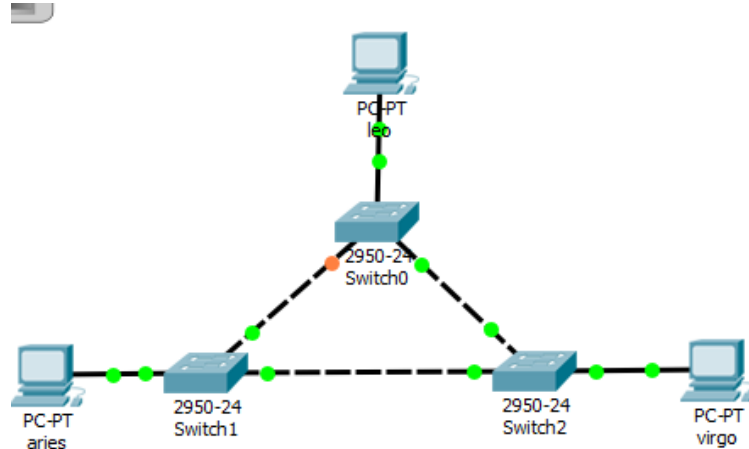
LAPORAN PRAKTIKUM JARINGAN KOMPUTER  
MODUL VI  
“SPANNING TREE PROTOCOL

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KELAS : D

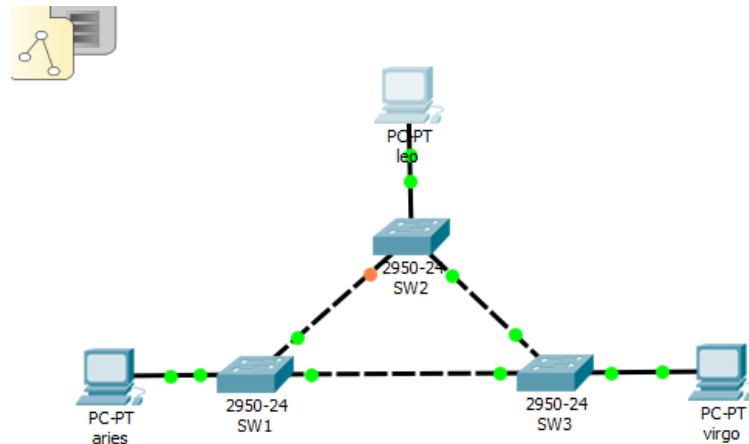
KEGIATAN PRAKTIKUM

**Kegiatan 1. Topologi 1**

Membuat topologi menggunakan switch Catalyst 2950



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



## Konfigurasi masing-masing PC dengan alamat IP

- Aries = 172.21.1.2

The screenshot shows the 'IP Configuration' window for a PC named 'aries'. 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: 172.21.1.2, 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 shows the 'Static' radio button selected, with fields for IPv6 Address, Link Local Address (FE80::2E0:F9FF:FE1B:8581), IPv6 Gateway, and IPv6 DNS Server. A 'Top' button is at the bottom left.

- Leo = 172.21.1.1

The screenshot shows the 'IP Configuration' window for a PC named 'leo'. 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: 172.21.1.1, 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 shows the 'Static' radio button selected, with fields for IPv6 Address, Link Local Address (FE80::2D0:BCFF:FE08:C199), IPv6 Gateway, and IPv6 DNS Server. A 'Top' button is at the bottom left.

- Virgo = 172.21.1.3

The screenshot shows the 'IP Configuration' window for a PC named 'virgo'. 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 shows the 'Static' radio button selected, with fields for IPv6 Address, Link Local Address (FE80::2D0:BAFF:FECC:9627), IPv6 Gateway, and IPv6 DNS Server. A 'Top' button is at the bottom left.

Melihat status STP pada masing-masing switch

>>SW2

```
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
```

>> 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
```

Melakukan ping dari PC Leo ke PC Virgo

```
leo
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=12ms 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

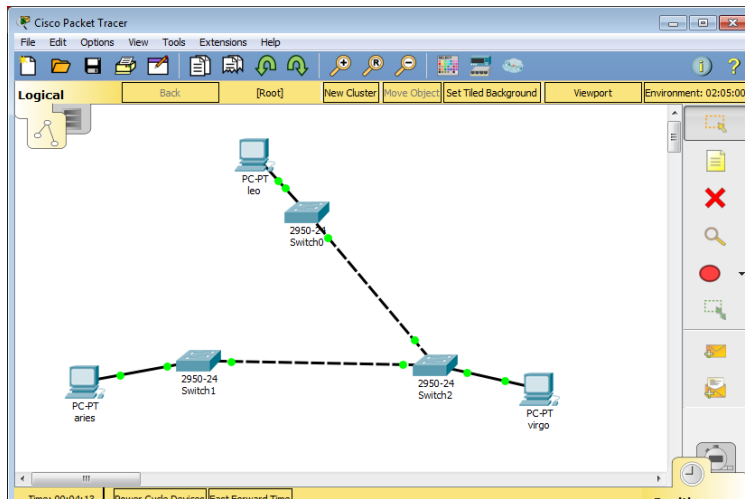
Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms
```

Menyimpan konfigurasi jaringan dengan nama lab2.pkt



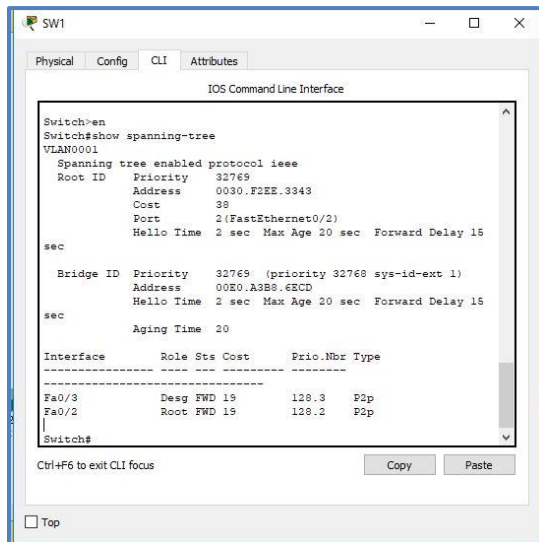
## Kegiatan 2. Topologi 2

Membuat topologi menjadi seperti berikut

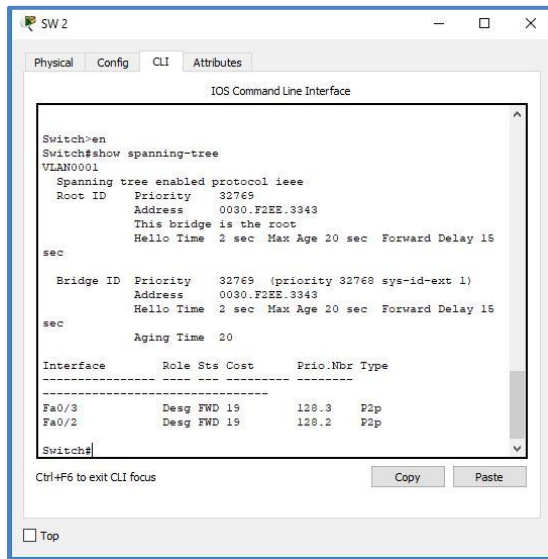


Melihat status STP pada masing-masing switch.

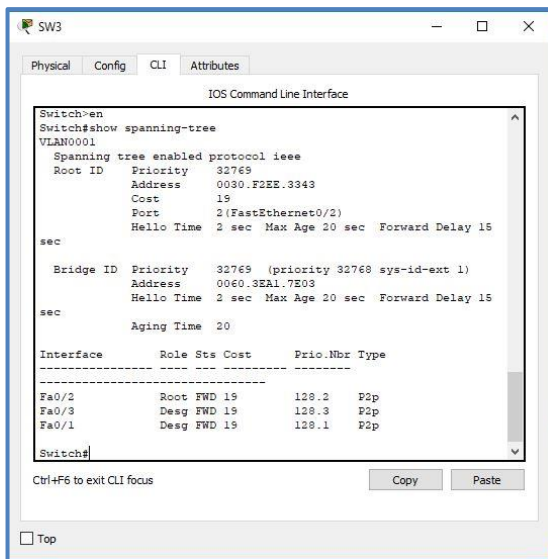
>>SW1



>>SW2



>>SW3



Melakukan ping dari PC Leo ke PC Virgo

