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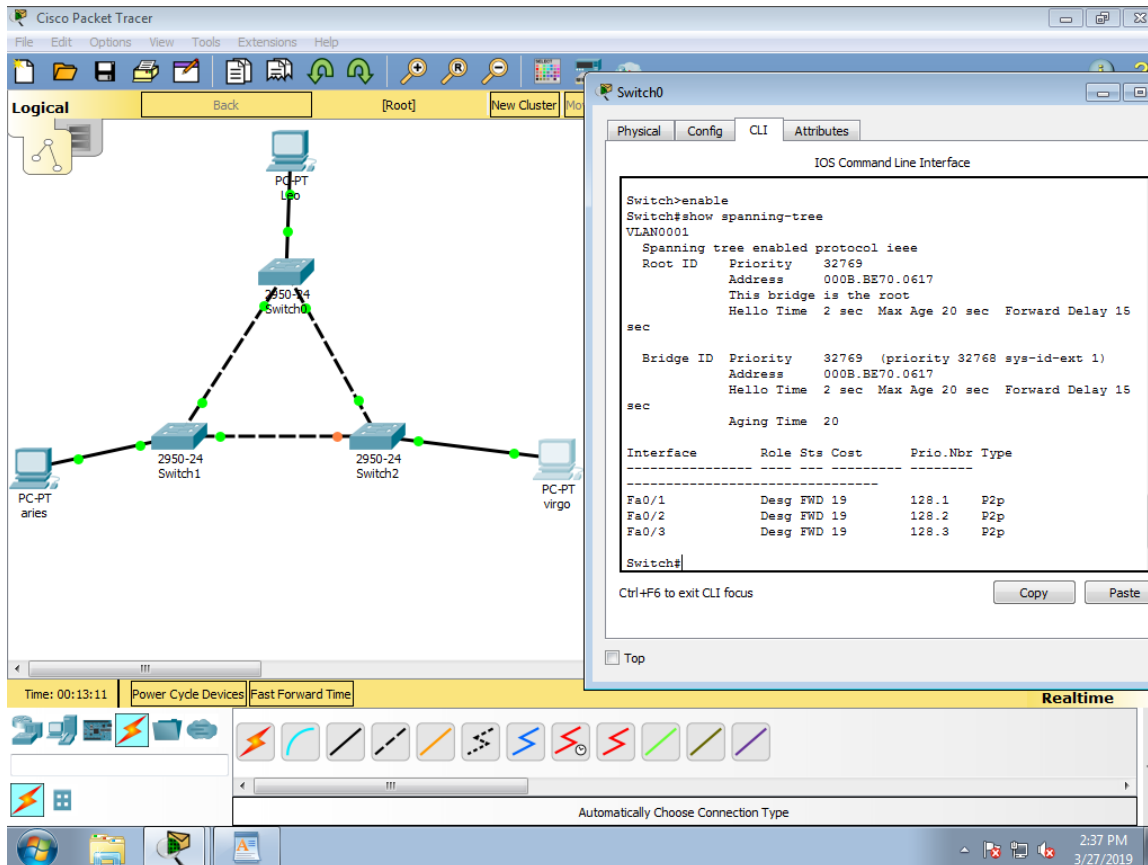
Kelas : B

MODUL 6

PRAKTIKUM JARINGAN KOMPUTER

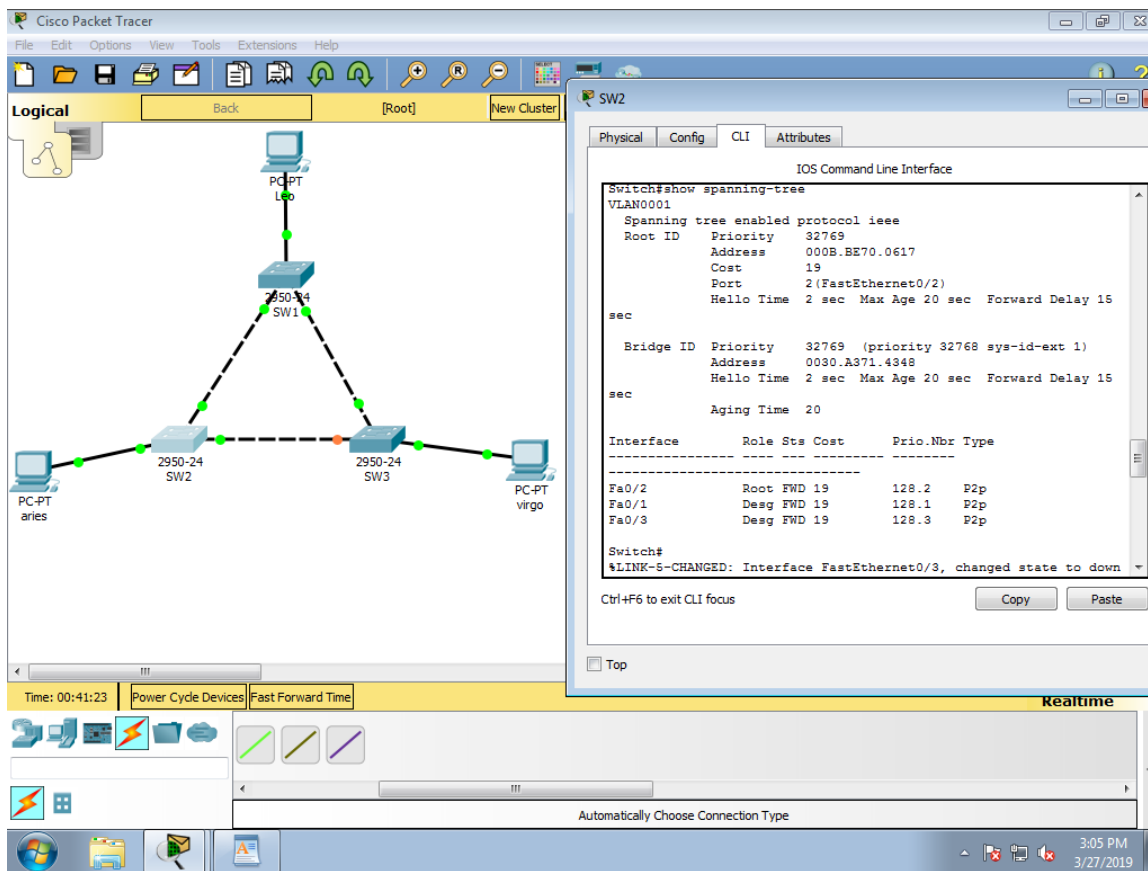
PERCOBAAN 1

- **SPANNING TREE SW1**



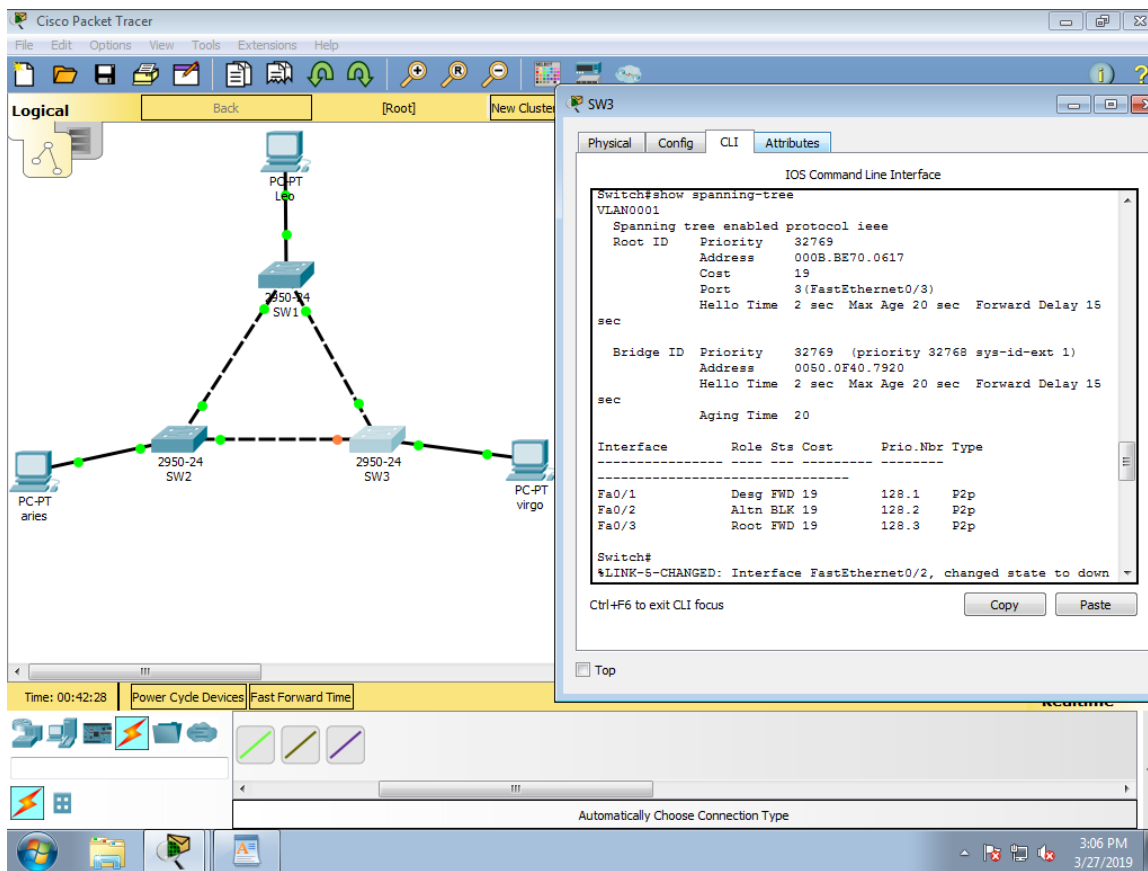
No	Variabel	Nilai
1	Root ID	32769.000B.BE70.0617
2	Priority	32769
3	MAC Address	000B.BE70.0617
4	Bridge ID	32769.000B.BE70.0617
5	Cost (0/1; 0/2; 03)	19;19;19
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

- SPANNING TREE SW2



No	Variabel	Nilai
1	Root ID	32769.000B.BE70.0617
2	Priority	32769
3	MAC Address	000B.BE70.0617
4	Bridge ID	32769.0030.A371.4348
5	Cost (0/1; 0/2; 03)	19;19;19
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

- SPANNING TREE SW3



No	Variabel	Nilai
1	Root ID	32769.000B.BE70.0617
2	Priority	32769
3	MAC Address	000B.BE70.0617
4	Bridge ID	32769.0050.0F40.7920
5	Cost (0/1; 0/2; 0/3)	19;19;19
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

Root Bridge :

SW1	0/1; 0/2; 0/3	
SW2		
SW3		

Root Port :

SW1	0/1	
SW2		
SW3	0/3	

Designited Bridge :

SW1		
SW2		
SW3		

Designited Port :

SW1		
SW2	0/2; 0/3	
SW3	0/1	

Yang berada pada kondisi forwarding:

SW1 : 0/1; 0/2; 0/3

SW2 : 0/1; 0/2; 0/3

SW3 : 0/1; 0/3

Yang berada pada kondisi blocking:

SW3 : 0/3

Ping dari Leo ke Virgo

The screenshot shows a Cisco Packet Tracer interface. On the left, a network topology is displayed with three switches (SW1, SW2, SW3) connected in a triangle. SW1 is at the top, SW2 at the bottom left, and SW3 at the bottom right. A PC named 'Leo' is connected to SW1, and another PC named 'Virgo' is connected to SW3. The switches are labeled '2950-24'. The interface includes a menu bar (File, Edit, Options, View, Tools, Extensions, Help) and a toolbar. Below the topology, there are tabs for 'Logical', 'Back', '[Root]', and 'New Cluster'. On the right, a 'Command Prompt' window is open, showing the results of a ping command from Leo to Virgo. The output indicates that the ping was successful with 4 packets sent and received, 0% loss, and an average round trip time of 4ms. The status bar at the bottom shows 'Time: 00:39:57', 'Power Cycle Devices', 'Fast Forward Time', and 'Realtime'.

```

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=17ms 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 = 17ms, Average = 4ms

C:\>
  
```

Percobaan 2

• SPANNING TREE SW1

The screenshot shows a Cisco Packet Tracer interface. On the left, a network topology is visible with three switches: SW1 (2950-24), SW2 (2950-24), and SW3 (2950-24). SW1 is connected to SW2 and SW3. SW2 is connected to a PC-PT aries, and SW3 is connected to a PC-PT virgo. SW1 is also connected to a PC-PT Leo. The right pane shows the CLI for SW1 with the following configuration:

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000B.BE70.0617
             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     000B.BE70.0617
             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     Desg FWD 19      128.3    P2p
Switch#
```

No	Variabel	Nilai
1	Root ID	32769.000B.BE70.0617
2	Priority	32769
3	MAC Address	000B.BE70.0617
4	Bridge ID	32769.000B.BE70.0617
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

• SPANNING TREE SW2

The image shows the Cisco Packet Tracer interface. On the left, a network topology is displayed with three switches (SW1, SW2, SW3) and two PCs (PC-PT aries, PC-PT virgo). SW1 is connected to SW2 and SW3. SW2 is connected to SW3. SW1 is also connected to a PC-PT aries. SW3 is connected to a PC-PT virgo. The switches are labeled 2950-24. The network is in the Logical view.

On the right, the CLI window for SW2 is open, showing the following output:

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address    000B.BE70.0617
             Cost      38
             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    0030.A371.4348
             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#
```

The bottom status bar shows the time as 00:54:43, the power cycle devices button, and the fast forward time button. The Realtime tab is selected.

No	Variabel	Nilai
1	Root ID	32769.000B.BE70.0617
2	Priority	32769
3	MAC Address	000B.BE70.0617
4	Bridge ID	32769.0030.A371.4348
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

• SPANNING TREE SW3

The screenshot shows a Cisco Packet Tracer interface. On the left, a network topology is visible with three switches: SW1, SW2, and SW3. SW1 is connected to a PC-PT Lab and a PC-PT aries. SW2 is connected to a PC-PT aries. SW3 is connected to a PC-PT virgo. The switches are interconnected in a triangle topology. On the right, the CLI window for SW3 is open, displaying the output of the 'show spanning-tree' command.

```

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000B.BE70.0617
             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     0050.0F40.7920
             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          Root FWD 19        128.3   P2p
  
```

No	Variabel	Nilai
1	Root ID	32769.000B.BE70.0617
2	Priority	32769
3	MAC Address	000B.BE70.0617
4	Bridge ID	32769.0050.0F40.7920
5	Cost (0/1; 0/2; 0/3)	19; 19; 19
6	Hello Time	2 Sec
7	Max Age	20 Sec
8	Forward Delay	15 Sec

Root Bridge :

SW1	0/1; 0/3
SW2	-
SW3	-

Root Port :

SW1	-
SW2	0/1
SW3	0/1; 0/2

Designited Bridge :

SW1	-
SW2	-
SW3	-

Designited Port :

SW1	-
SW2	0/3
SW3	0/3

Semuanya Forward

Ping Dari Leo Ke Virgo

The screenshot shows a Cisco Packet Tracer interface. The network topology in the Logical view includes:

- PC-PT aries connected to SW2 (2950-24).
- SW2 (2950-24) connected to SW1 (2950-24) and SW3 (2950-24).
- SW1 (2950-24) connected to PC-PT Leo.
- SW3 (2950-24) connected to PC-PT virgo.

The Command Prompt window for PC-PT Leo shows the following output:

```

C:\>
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 = 17ms, Average = 4ms

C:\>
  
```

The bottom status bar shows the time as 01:02:46 and the date as 3/27/2019.