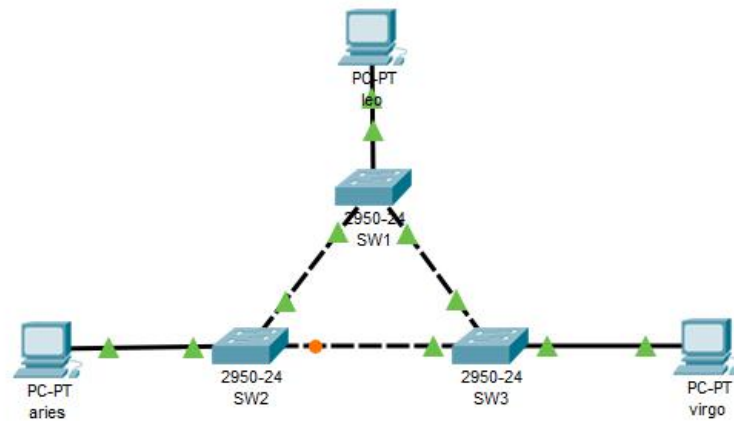


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Kelas : B

NIM : L200180048

Kegiatan 1. Topologi 1



Beri nama switch dengan SW1, SW2, dan SW3

Konfigurasi masing-masing PC

- Leo = 172.21.1.1/24
- Aries = 172.21.1.2/24
- Virgo = 172.21.1.3/24

Pada mode user atau privileged, lihat status STP pada masing-masing switch.

Ketik show spanning-tree

SW1

```
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0060.47E4.0039
             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     0060.47E4.0039
             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                    Desg FWD 19        128.2   P2p
Fa0/1                    Desg FWD 19        128.1   P2p

Switch>
```

SW2

```
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0060.47E4.0039
             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     00D0.BACE.2C33
             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                    Desg FWD 19        128.2   P2p
Fa0/3                    Altn BLK 19        128.3   P2p
```

### SW3

```
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0060.47E4.0039
             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     00D0.BAAA.C761
             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                    Root FWD 19        128.1    P2p
Fa0/2                    Desg FWD 19        128.2    P2p

Switch>
```

### SW1

No	Variable	Nilai
1	Root ID	32769, 0060.47E4.0039
2	Priority	32769
3	MAC Address	0060.47E4.0039
4	Bridge ID	32769, 0060.47E4.0039
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

### SW2

No	Variable	Nilai
1	Root ID	32769, 0060.47E4.0039
2	Priority	32769
3	MAC Address	0060.47E4.0039
4	Bridge ID	32769, 00D0.BAAA.C761
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variable	Nilai
1	Root ID	32769, 0060.47E4.0039
2	Priority	32769
3	MAC Address	0060.47E4.0039
4	Bridge ID	32769, 0060.47E4.0039
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Menjadi Root Bridge : SW1

Menjadi designated bridge : SW2 dan SW3

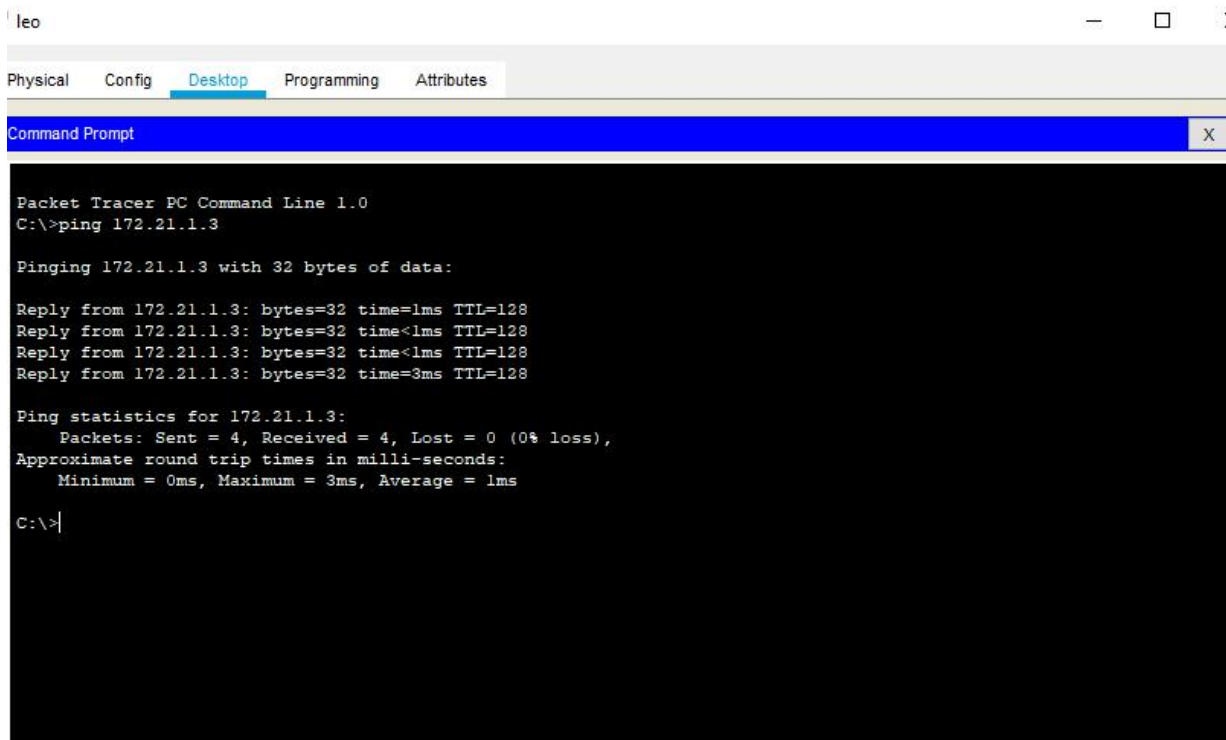
Menjadi Root port : SW3

Menjadi designated port : SW1 dan SW2

Port yang berada pada keadaan forwarding : SW1

Port yang berada pada keadaan blocking : SW2 Fa0/3

Ping dari PC leo ke PC virgo



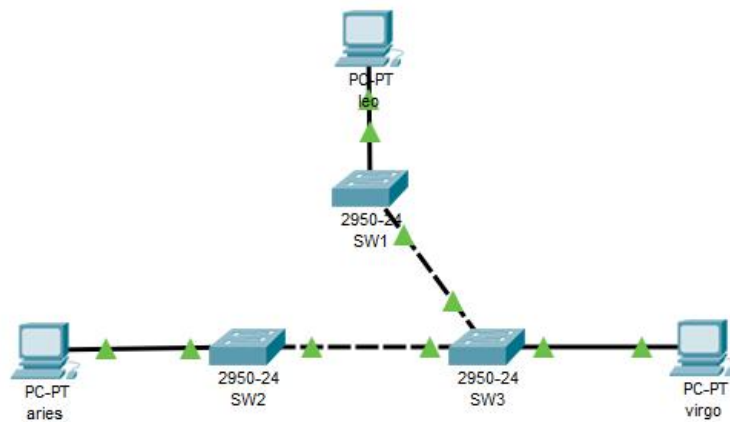
```
leo
Physical  Config  Desktop  Programming  Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=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=3ms 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 = 3ms, Average = 1ms
C:\>|
```

## Kegiatan 2. Topologi 2



### SW1

```
SW1
Physical Config CLI Attributes
IOS Command Line Interface

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

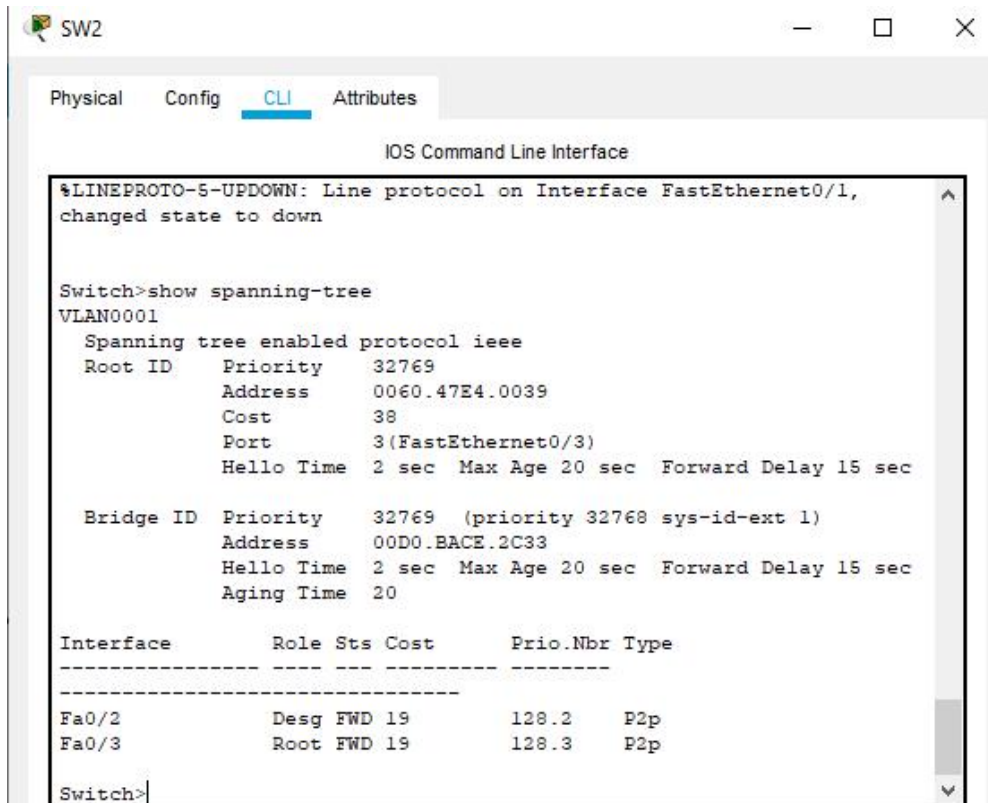
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0060.47E4.0039
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     0060.47E4.0039
             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 LRN 19       128.1    P2p
Fa0/3          Desg LRN 19       128.3    P2p

Switch>
```

## SW2



SW2

Physical Config **CLI** Attributes

IOS Command Line Interface

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

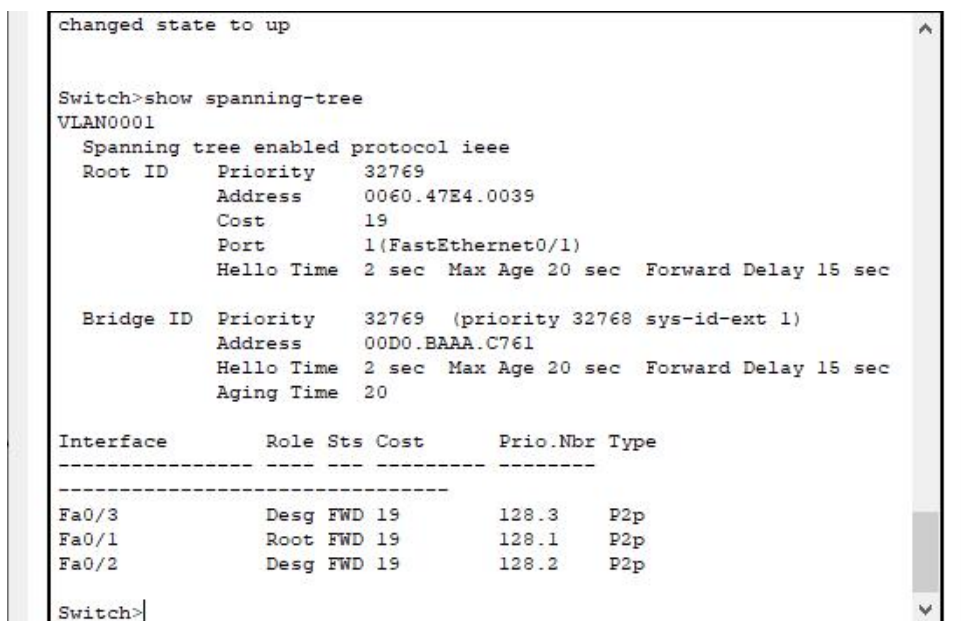
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0060.47E4.0039
              Cost      38
              Port      3(FastEthernet0/3)
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec

    Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
              Address    00D0.BACE.2C33
              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          Root FWD 19        128.3    P2p

Switch>
```

## SW3



```
changed state to up

Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0060.47E4.0039
              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    00D0.BAAA.C761
              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          Root FWD 19        128.1    P2p
Fa0/2          Desg FWD 19        128.2    P2p

Switch>
```

Table SW1

No	Variable	Nilai
1	Root ID	32769, 0060.47E4.0039
2	Priority	32769
3	MAC Address	0060.47E4.0039
4	Bridge ID	32769, 0060.47E4.0039
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

No	Variable	Nilai
1	Root ID	32769, 0060.47E4.0039
2	Priority	32769
3	MAC Address	0060.47E4.0039
4	Bridge ID	32769, 00D0.BAAA.C761
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variable	Nilai
1	Root ID	32769, 0060.47E4.0039
2	Priority	32769
3	MAC Address	0060.47E4.0039
4	Bridge ID	32769, 0060.47E4.0039
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Menjadi Root Bridge : SW1

Menjadi designated bridge : SW2 dan SW3

Menjadi Root port : SW2 dan SW3

Menjadi designated port : SW1

Port yang berada pada keadaan forwarding : SW1

Port yang berada pada keadaan blocking : -