Zulfikar Bayu Budiman
L200170052
Kelas B

Topologi 1

Switch2

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     0001.6308.9A43
             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     0001.6308.9A43
             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            Desg FWD 19        128.3    P2p
Fa0/1            Desg FWD 19        128.1    P2p

Switch#
```

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Switch3

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     0001.6308.9A43
             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     0090.2BE6.4AC4
             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
```

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SW 1

NO	Variable	Nilai
1	Root ID	32769, 0001.6308.9A43
2	Priority	32769
3	MAC Address	0001.6308.9A43
4	Bridge ID	32769, 0060.5CC4.6A1B
5	Cost (0/1;0/2;0/3)	19 / 19 / 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

SW 2

NO	Variable	Nilai
1	Root ID	32769, 0001.6308.9A43
2	Priority	32769
3	MAC Address	0001.6308.9A43
4	Bridge ID	32769, 0001.6308.9A43
5	Cost (0/1;0/2;0/3)	19 / 19 / 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

SW 3

NO	Variable	Nilai
1	Root ID	32769, 0001.6308.9A43
2	Priority	32769
3	MAC Address	0001.6308.9A43
4	Bridge ID	32769, 0090.2BE6.4AC4
5	Cost (0/1;0/2;0/3)	19 / 19 / 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

Pada kondisi *default* tersebut, switch dan port mana saja yang :

1. Menjadi **Root Bridge** : SW2

2. Menjadi **Designated Bridge** : SW3, SW1

3. Menjadi **Root Port** : SW1(Fa 0/1), SW3(Fa 0/2)

4. Menjadi **Designated Port** : SW3(Fa 0/3) , SW1(Fa 0/3 dan Fa 0/2)

Pada kondisi *default* tersebut, switch dan port mana saja yang :

1. Berada pada keadaan **Forwarding** : SW1, SW2, dan SW3(kecuali Fa 0/1)

2. Berada pada keadaan **Blocking** : SW3 (Fa 0/1)

Ping PC Leo ke PC Virgo

Topologi 2

Switch1

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     0001.6308.9A43
             Cost        38
             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     0060.5CC4.6A1B
             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#
```

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Switch2

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     0001.6308.9A43
             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     0001.6308.9A43
             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            Desg FWD 19        128.3    P2p

Switch#
```

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SW 1

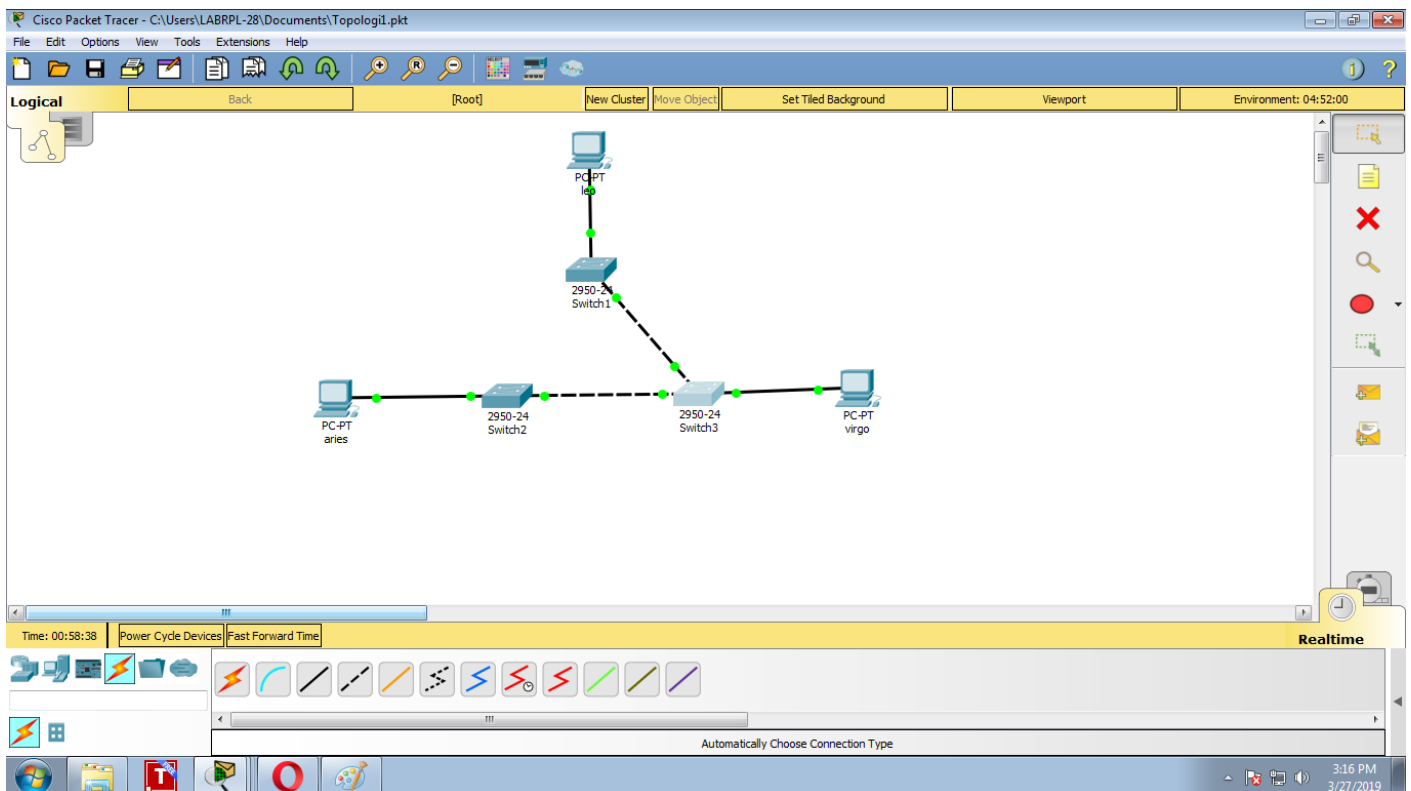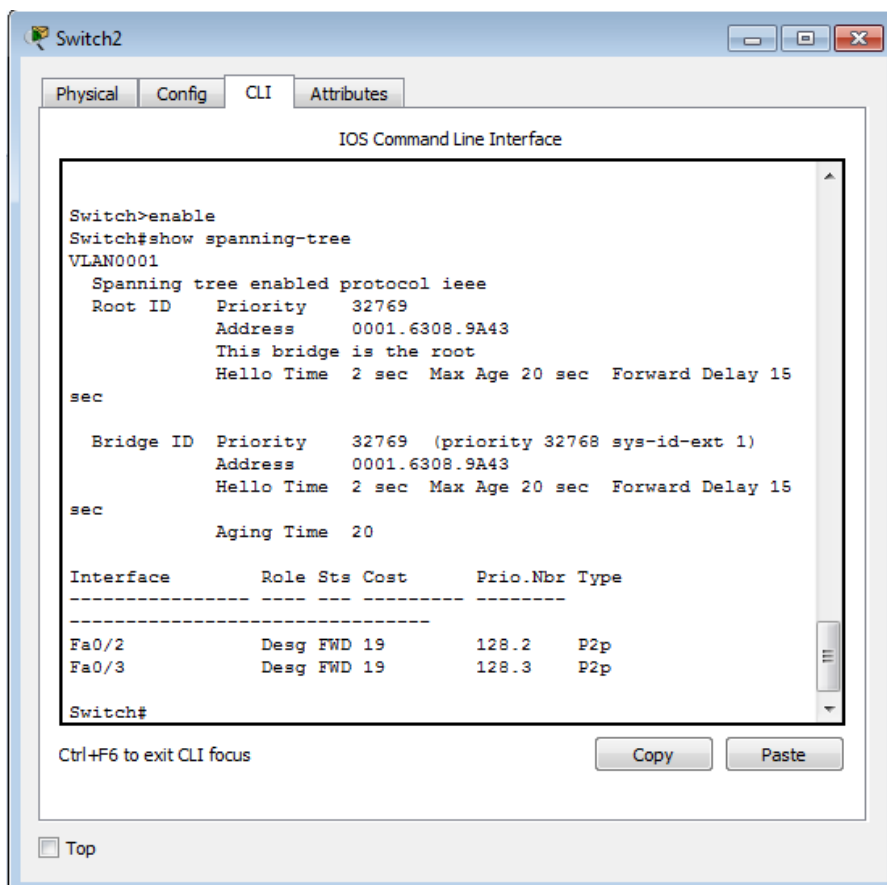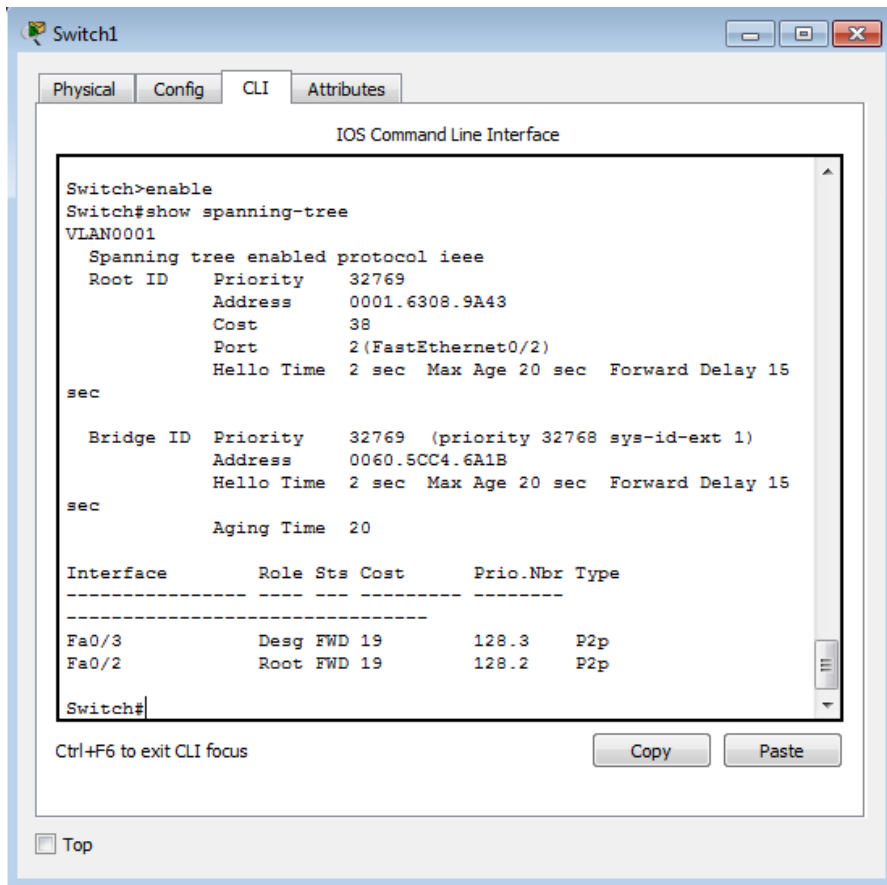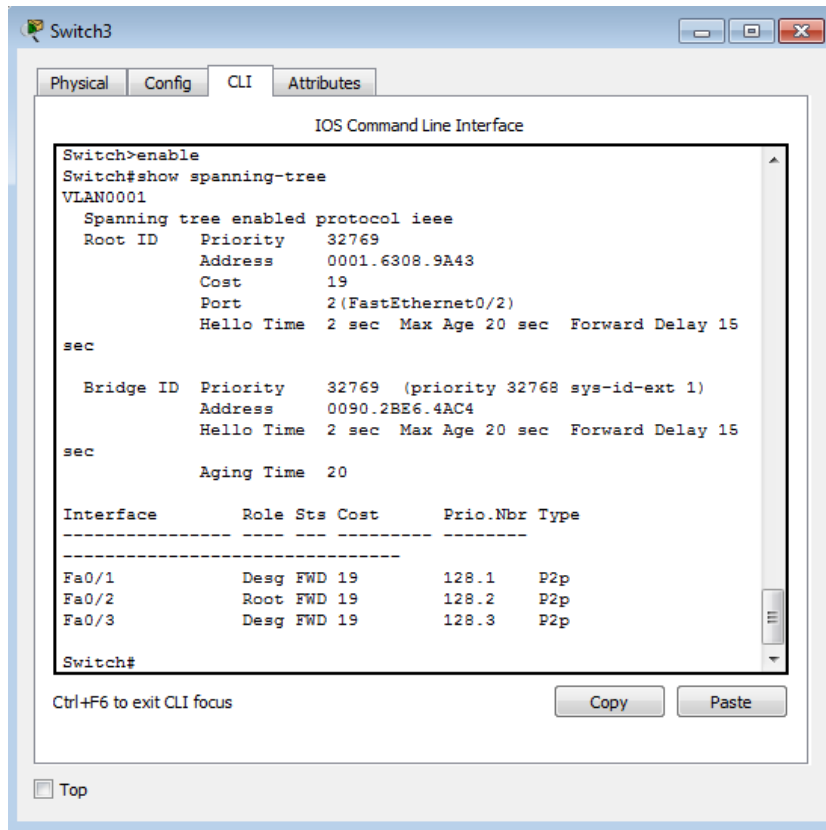| NO	Variable	Nilai
1	Root ID	32769, 0001.6308.9A43
2	Priority	32769
3	MAC Address	0001.6308.9A43
4	Bridge ID	32769, 0060.5CC4.6A1B
5	Cost (0/1;0/2;0/3)	19 / 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

SW 2

NO	Variable	Nilai
1	Root ID	32769, 0001.6308.9A43
2	Priority	32769
3	MAC Address	0001.6308.9A43
4	Bridge ID	32769, 0001.6308.9A43
5	Cost (0/1;0/2;0/3)	19 / 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

SW 3

NO	Variable	Nilai
1	Root ID	32769, 0001.6308.9A43
2	Priority	32769
3	MAC Address	0001.6308.9A43
4	Bridge ID	32769, 0090.2BE6.4AC4
5	Cost (0/1;0/2;0/3)	19 / 19 / 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

Pada kondisi *default* tersebut, switch dan port mana saja yang :

5. Menjadi **Root Bridge** : SW2

6. Menjadi **Designated Bridge** : SW3, SW1

7. Menjadi **Root Port** : SW1(Fa 0/2), SW3(Fa 0/2)

8. Menjadi **Designated Port** : SW3(Fa 0/3 dan Fa 0/1) , SW1(Fa 0/3)

Pada kondisi *default* tersebut, switch dan port mana saja yang :

3. Berada pada keadaan **Forwarding** : SW1, SW2, SW3

4. Berada pada keadaan **Blocking** : Tidak ada.

Ping PC Leo ke PC Virgo