

Nama : Rima Dwi Novika

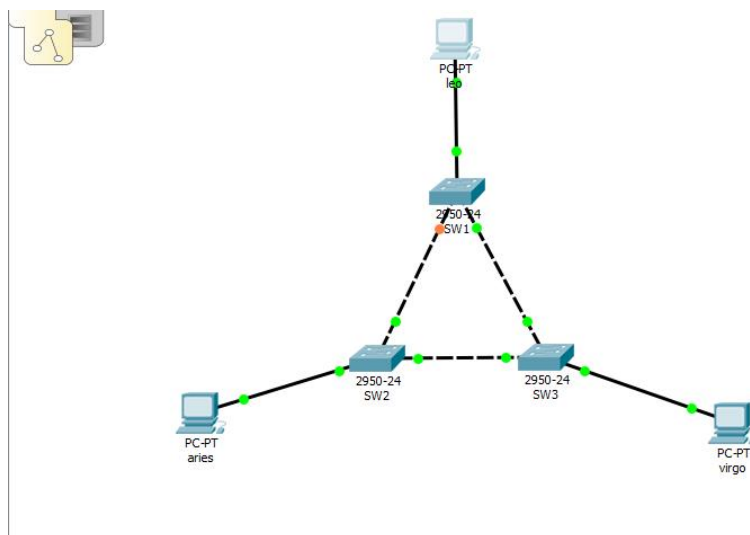
NIM : L200170044

Kelas : B

Modul : 6

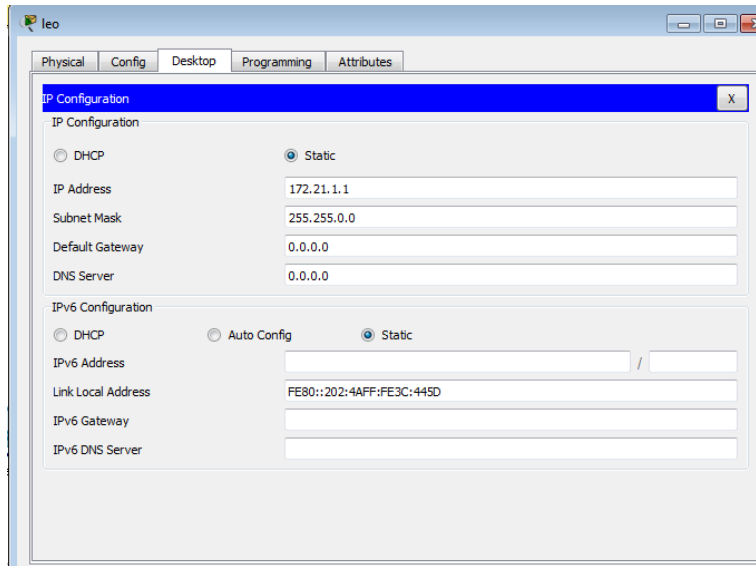
## Kegiatan 1

### 1. Topologi



## 2. Konfigurasi alamat IP

- Leo



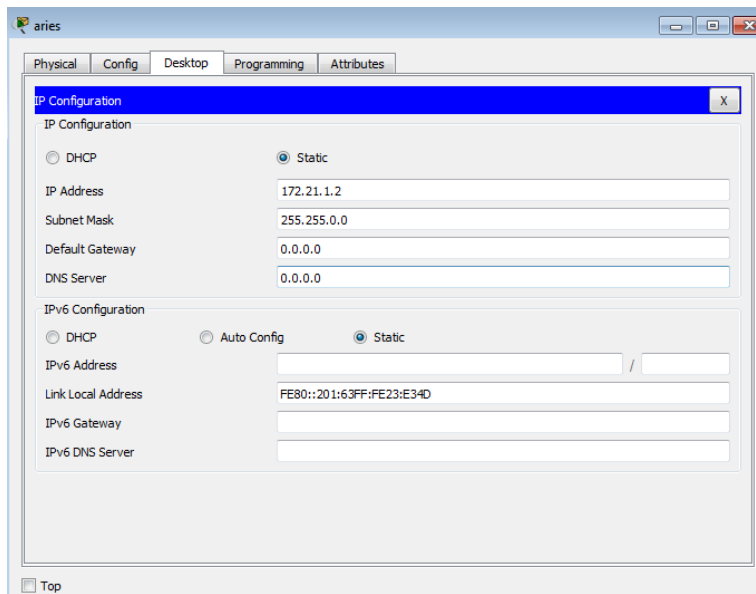
The screenshot shows the 'leo' configuration window with the 'Config' tab selected. The 'IP Configuration' section is active, displaying settings for both IPv4 and IPv6. The IPv4 configuration is set to 'Static' with an IP Address of 172.21.1.1, Subnet Mask of 255.255.0.0, Default Gateway of 0.0.0.0, and DNS Server of 0.0.0.0. The IPv6 configuration is also set to 'Static' with an empty IPv6 Address field, a Link Local Address of FE80::202:4AFF:FE3C:445D, and empty fields for IPv6 Gateway and IPv6 DNS Server.

| IP Configuration   |             |
|--|-------------|
| <input type="radio"/> DHCP <input checked="" type="radio"/> 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   |                          |
|--|--------------------------|
| <input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static |                          |
| IPv6 Address   |                          |
| Link Local Address   | FE80::202:4AFF:FE3C:445D |
| IPv6 Gateway   |                          |
| IPv6 DNS Server  |                          |

- Aries



The screenshot shows the 'aries' configuration window with the 'Config' tab selected. The 'IP Configuration' section is active, displaying settings for both IPv4 and IPv6. The IPv4 configuration is set to 'Static' with an IP Address of 172.21.1.2, Subnet Mask of 255.255.0.0, Default Gateway of 0.0.0.0, and DNS Server of 0.0.0.0. The IPv6 configuration is also set to 'Static' with an empty IPv6 Address field, a Link Local Address of FE80::201:63FF:FE23:E34D, and empty fields for IPv6 Gateway and IPv6 DNS Server.

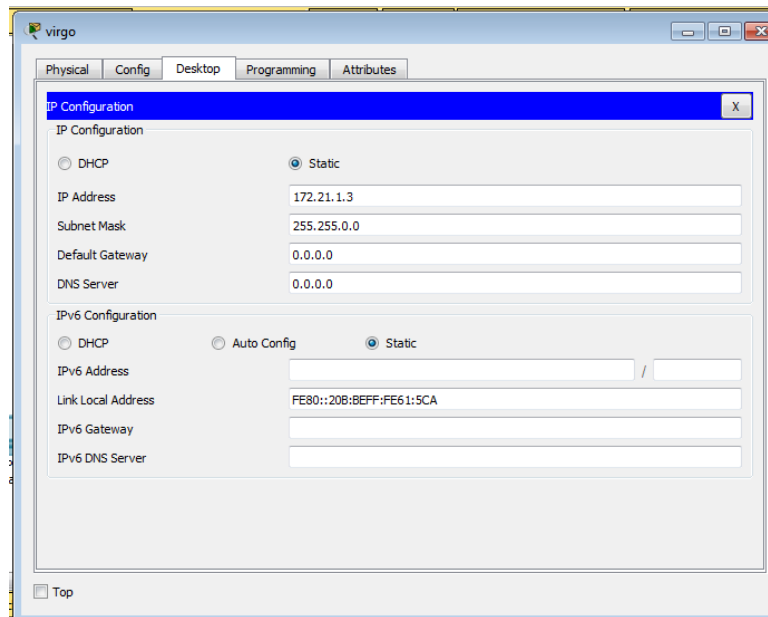
| IP Configuration   |             |
|--|-------------|
| <input type="radio"/> DHCP <input checked="" type="radio"/> Static |             |
| IP Address   | 172.21.1.2  |
| Subnet Mask  | 255.255.0.0 |
| Default Gateway  | 0.0.0.0     |
| DNS Server   | 0.0.0.0     |

| IPv6 Configuration   |                          |
|--|--------------------------|
| <input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static |                          |
| IPv6 Address   |                          |
| Link Local Address   | FE80::201:63FF:FE23:E34D |
| IPv6 Gateway   |                          |
| IPv6 DNS Server  |                          |

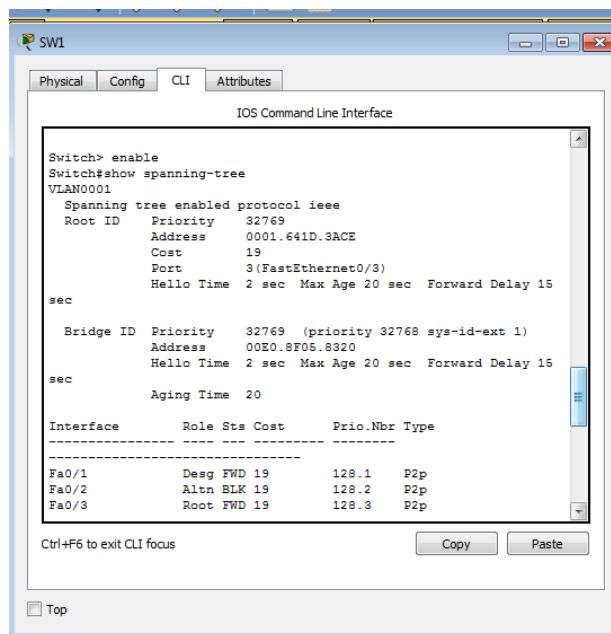
Top

- Virgo



3. Show spanning-tree pada masing-masing switch

- SW1



- SW2

SW2

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    0001.641D.3ACE
            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    0010.1159.5366
            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  |
| Fa0/1     | Desg | FWD | 19   | 128.1    | P2p  |

Ctrl+F6 to exit CLI focus

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- SW3

SW3

Physical Config CLI Attributes

IOS Command Line Interface

```
changed state to up
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0001.641D.3ACE
            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    0001.641D.3ACE
            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     | Desg | FWD | 19   | 128.1    | P2p  |
| Fa0/2     | Desg | FWD | 19   | 128.2    | P2p  |

Ctrl+F6 to exit CLI focus

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Tabel SW1

| No | Variabel             | Nilai                        |
|----|----------------------|------------------------------|
| 1. | Root ID              | 32769, 001.641D.3ACE         |
| 2. | Priority             | 32769                        |
| 3. | MAC Address          | 001.641D.3ACE                |
| 4. | Bridge ID            | 32769, 00E0.8F05.8320        |
| 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                       |

Tabel SW2

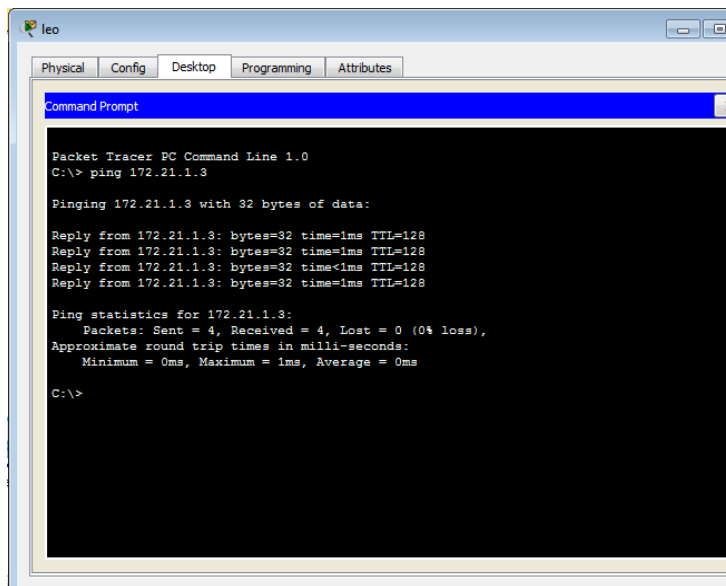
| No | Variabel             | Nilai                        |
|----|----------------------|------------------------------|
| 1. | Root ID              | 32769, 001.641D.3ACE         |
| 2. | Priority             | 32769                        |
| 3. | MAC Address          | 001.641D.3ACE                |
| 4. | Bridge ID            | 32769, 0010.1159.5366        |
| 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                       |

Tabel SW3

| No | Variabel             | Nilai                        |
|----|----------------------|------------------------------|
| 1. | Root ID              | 32769, 001.641D.3ACE         |
| 2. | Priority             | 32769                        |
| 3. | MAC Address          | 001.641D.3ACE                |
| 4. | Bridge ID            | 32769, 001.641D.3ACE         |
| 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                       |

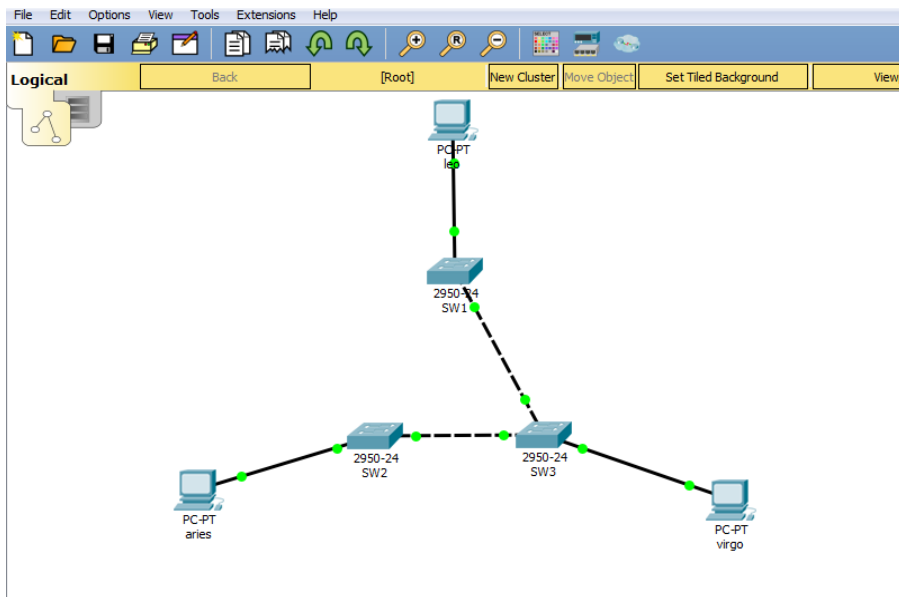
- Root bridge : SW3
- Designated bridge : SW1
- Root port : SW2
- Designated port : -
- Port kondisi forwarding
  - SW1 : Fa 0/1, Fa 0/3
  - SW2 : Fa 0/1, Fa 0/2, Fa 0/3
  - SW3 : Fa 0/1, Fa 0/2, Fa 0/3
- Port kondisi blocking : SW1 Fa 0/2

#### 4. Ping dari PC Leo ke PC Virgo



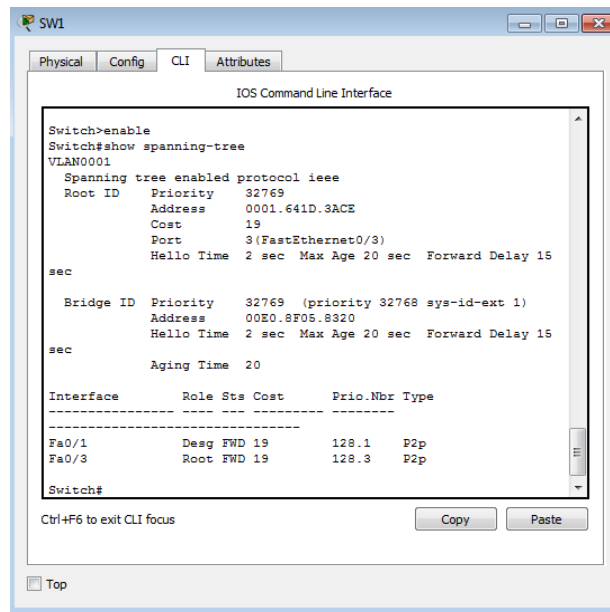
## Kegiatan 2

### 1.



## 2. Show spanning tree pada masing-masing switch

- SW1



SW1

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     0001.641D.3ACE
            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     00E0.8F05.8320
            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

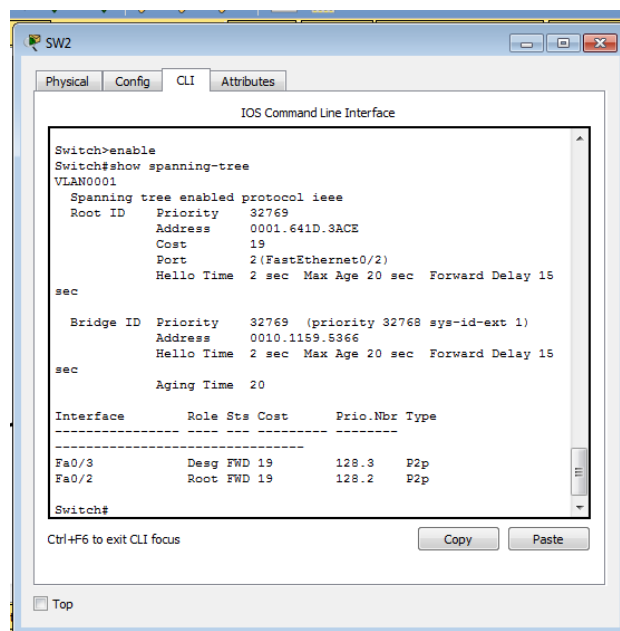
Switch#
```

Ctrl+F6 to exit CLI focus

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Top

- SW2



SW2

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     0001.641D.3ACE
            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     0010.1159.5366
            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#
```

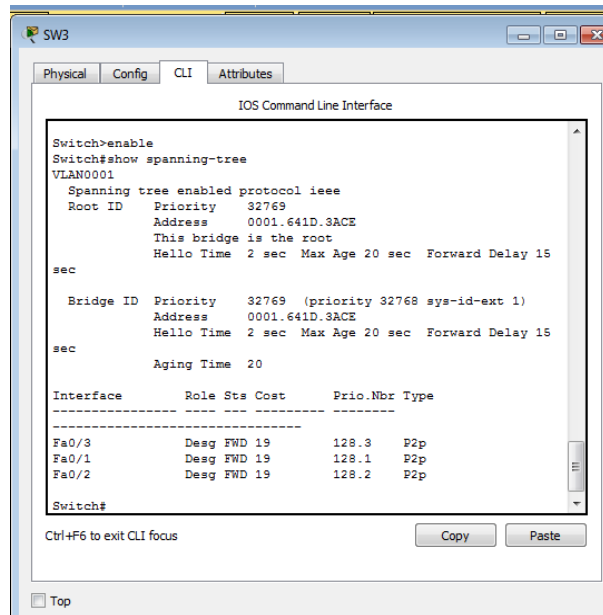
Ctrl+F6 to exit CLI focus

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Top



- SW3



Tabel SW1

| No | Variabel             | Nilai                 |
|----|----------------------|-----------------------|
| 1. | Root ID              | 32769, 001.641D.3ACE  |
| 2. | Priority             | 32769                 |
| 3. | MAC Address          | 001.641D.3ACE         |
| 4. | Bridge ID            | 32769, 00E0.8F05.8320 |
| 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                |

Tabel SW2

| No | Variabel             | Nilai                 |
|----|----------------------|-----------------------|
| 1. | Root ID              | 32769, 001.641D.3ACE  |
| 2. | Priority             | 32769                 |
| 3. | MAC Address          | 001.641D.3ACE         |
| 4. | Bridge ID            | 32769, 0010.1159.5366 |
| 5. | Cost (0/1; 0/2; 0/3) | 0/2 : 19; 0/3 : 19    |
| 6. | Hello Time           | 2 sec                 |
| 7. | Max Age              | 20 sec                |
| 8. | Forward Delay        | 15 sec                |

Tabel SW3

| No | Variabel             | Nilai                        |
|----|----------------------|------------------------------|
| 1. | Root ID              | 32769, 001.641D.3ACE         |
| 2. | Priority             | 32769                        |
| 3. | MAC Address          | 001.641D.3ACE                |
| 4. | Bridge ID            | 32769, 001.641D.3ACE         |
| 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                       |

- Root bridge : SW3
- Designated bridge : -
- Root port : SW1, SW2
- Designated port : -

- Port kondisi forwarding
  - SW1 : Fa 0/1, Fa 0/3
  - SW2 : Fa 0/2, Fa 0/3
  - SW3 : Fa 0/1, Fa 0/2, Fa 0/3
- Port kondisi blocking : -