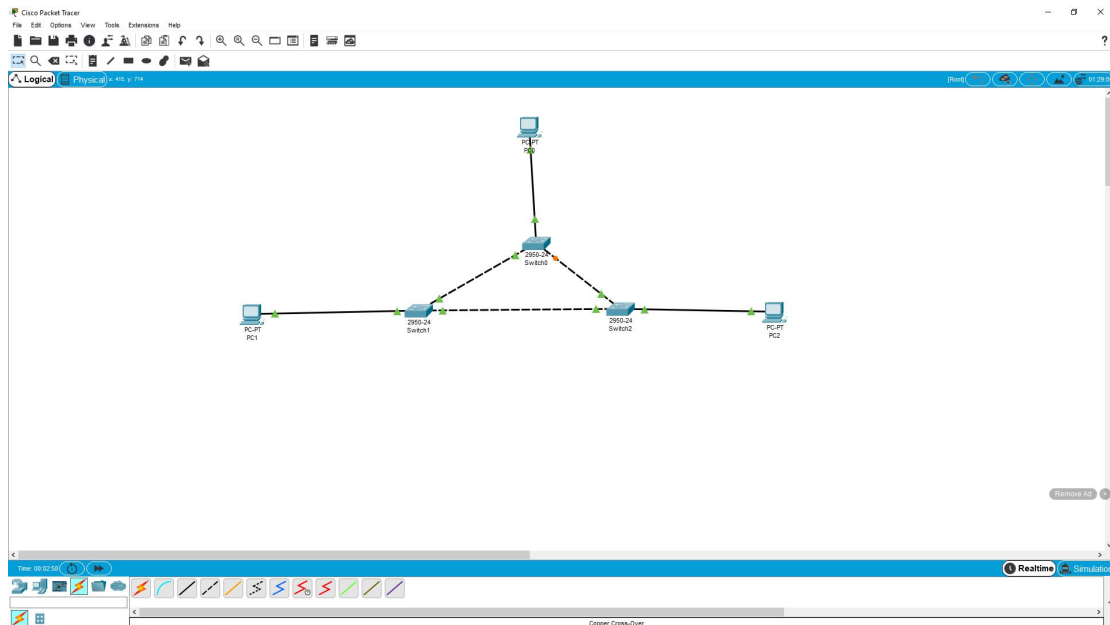Nama: Arya Mukti A'raafi Zha Putra

NIM: L200180151

Kelas: D

Kegiatan 1.Topologi 1



Tugas 1A:

3 Switch diberi nama masing-masing berupa SW1, SW2, SW3

Tugas 2A:

Switch>en

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname SW1

SW1(config)#end

Switch>en

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname SW2

SW2(config)#end
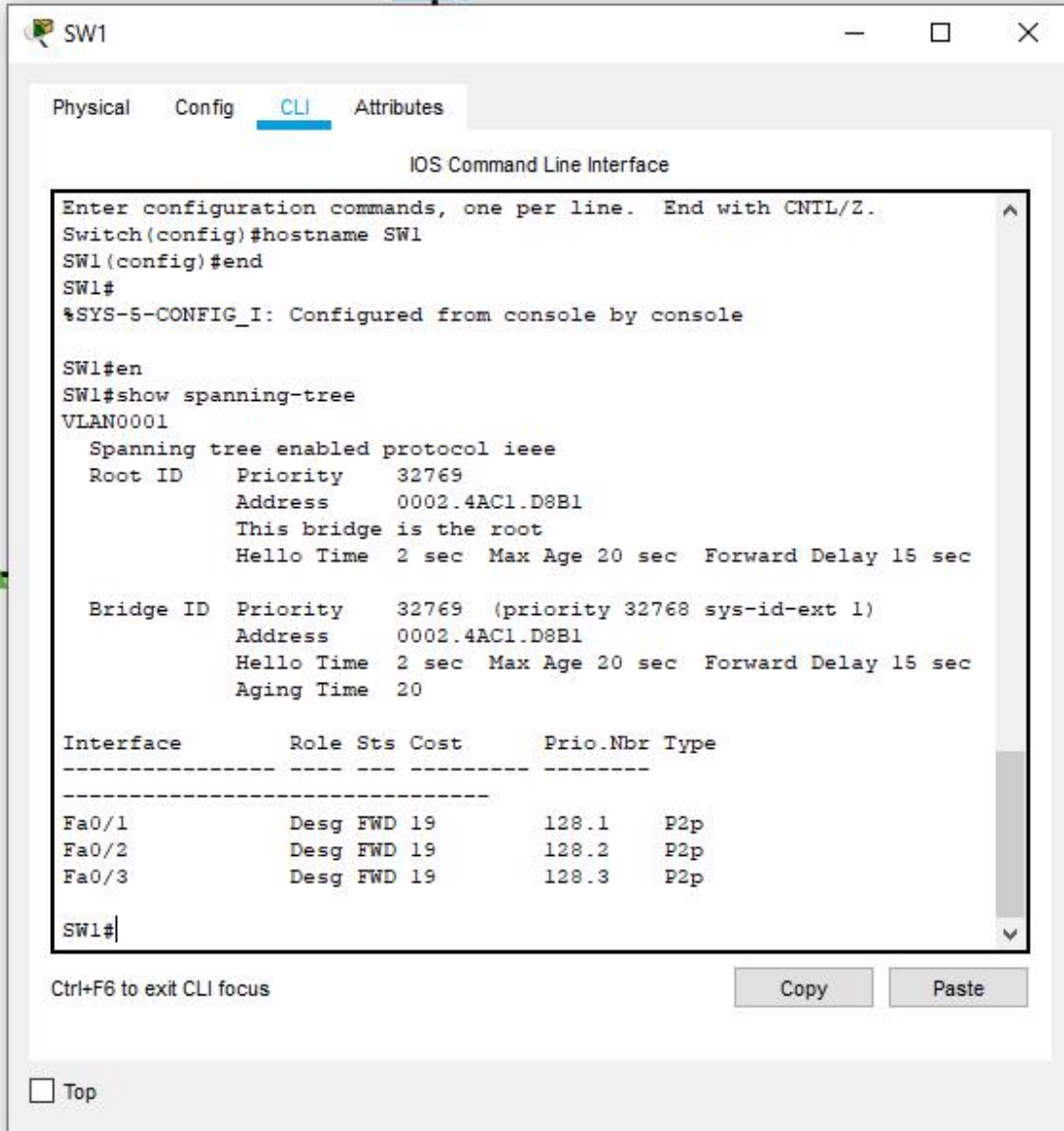
Switch>en

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname SW3

SW3(config)#end

Tugas 4A:

SW1

SW2



```
SW2

                                                                    □      ×
  SW2                                                       —

  Physical    Config    CLI    Attributes

                          IOS Command Line Interface

  Switch(config)#hostname SW2
  SW2(config)#end
  SW2#
  %SYS-5-CONFIG_I: Configured from console by console

  SW2#en
  SW2#show spanning-tree
  VLAN0001
    Spanning tree enabled protocol ieee
    Root ID    Priority    32769
               Address     0002.4AC1.D8B1
               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     000A.419D.D792
               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

  SW2#

  Ctrl+F6 to exit CLI focus                          Copy        Paste


  □ Top
```

SW3



SW3

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Switch(config)#hostname SW3
SW3(config)#end
SW3#
%SYS-5-CONFIG_I: Configured from console by console

SW3#en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0002.4AC1.D8B1
             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     00D0.D36E.C222
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- --------
-------------------------------
Fa0/2            Root FWD 19        128.2    P2p
Fa0/1            Desg FWD 19        128.1    P2p
Fa0/3            Altn BLK 19        128.3    P2p

SW3#
```

Ctrl+F6 to exit CLI focus                    Copy        Paste

☐ Top

Tugas 4B:

SW1

| NO | Variabel | Nilai |
|----|----------|-------|
| 1 | Root ID | 0002.4AC1.D8B1 |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0002.4AC1.D8B1 |
| 4 | Bridge ID | 0002.4AC1.D8B1 |
| 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 |

SW2

| NO | Variabel | Nilai |
|----|----------|-------|
| 1 | Root ID | 0002.4AC1.D8B1 |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0002.4AC1.D8B1 |
| 4 | Bridge ID | 0002.4AC1.D8B1 |
| 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 |

SW3

| NO | Variabel | Nilai |
|----|----------|-------|
| 1 | Root ID | 0002.4AC1.D8B1 |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0002.4AC1.D8B1 |
| 4 | Bridge ID | 0002.4AC1.D8B1 |
| 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 |

Tugas 4C:

Root bridge : SW1

Designated bridge : SW2

Root port : SW2 (Fa0/1), SW3(Fa0/1)

Designated port : SW1(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/2;Fa0/3), SW3(Fa0/3)
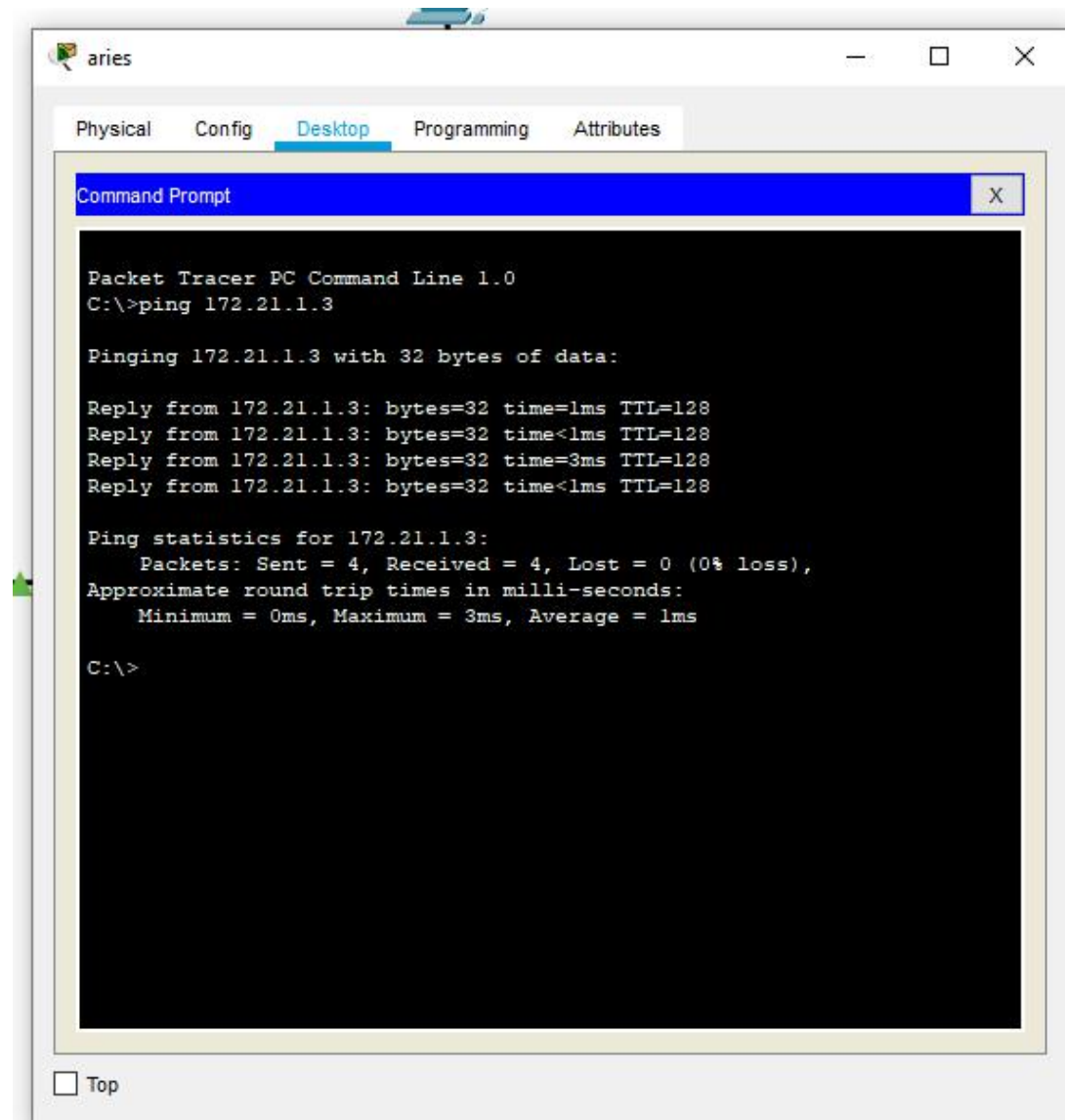
Tugas 4D:

Forwarding : SW1(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/1;Fa0/2;Fa0/3), SW3(Fa0/1;Fa0/3)

Blocking : SW3(Fa0/3)

Tugas 5A:

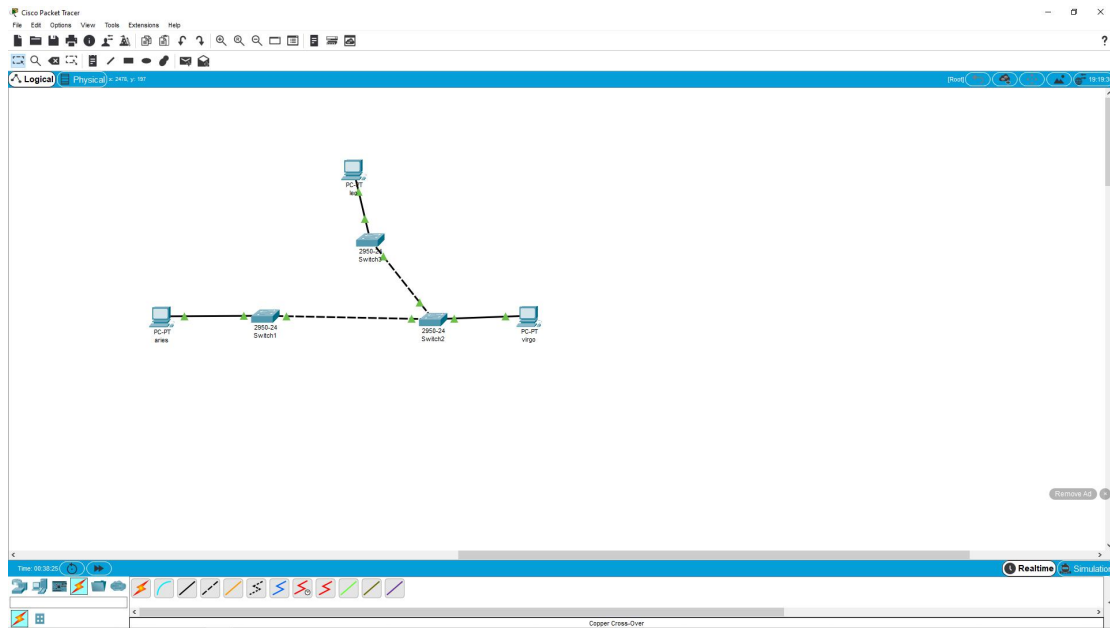Double klik pc, lalu ke desktop, kemudian ke command prompt



Tugas 6A:

SW2>en

SW2#write

Building configuration...

[OK]

Kegiatan 2.Topologi 2

Switch 1

Switch1          —   □   ✕

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname Switch1
Switch1(config)#end
Switch1#
%SYS-5-CONFIG_I: Configured from console by console

Switch1#en
Switch1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.6477.92DB
             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     00D0.D350.B09B
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- --------
-------------------------------
Fa0/2            Root FWD 19        128.2    P2p
Fa0/1            Desg FWD 19        128.1    P2p

Switch1#
```
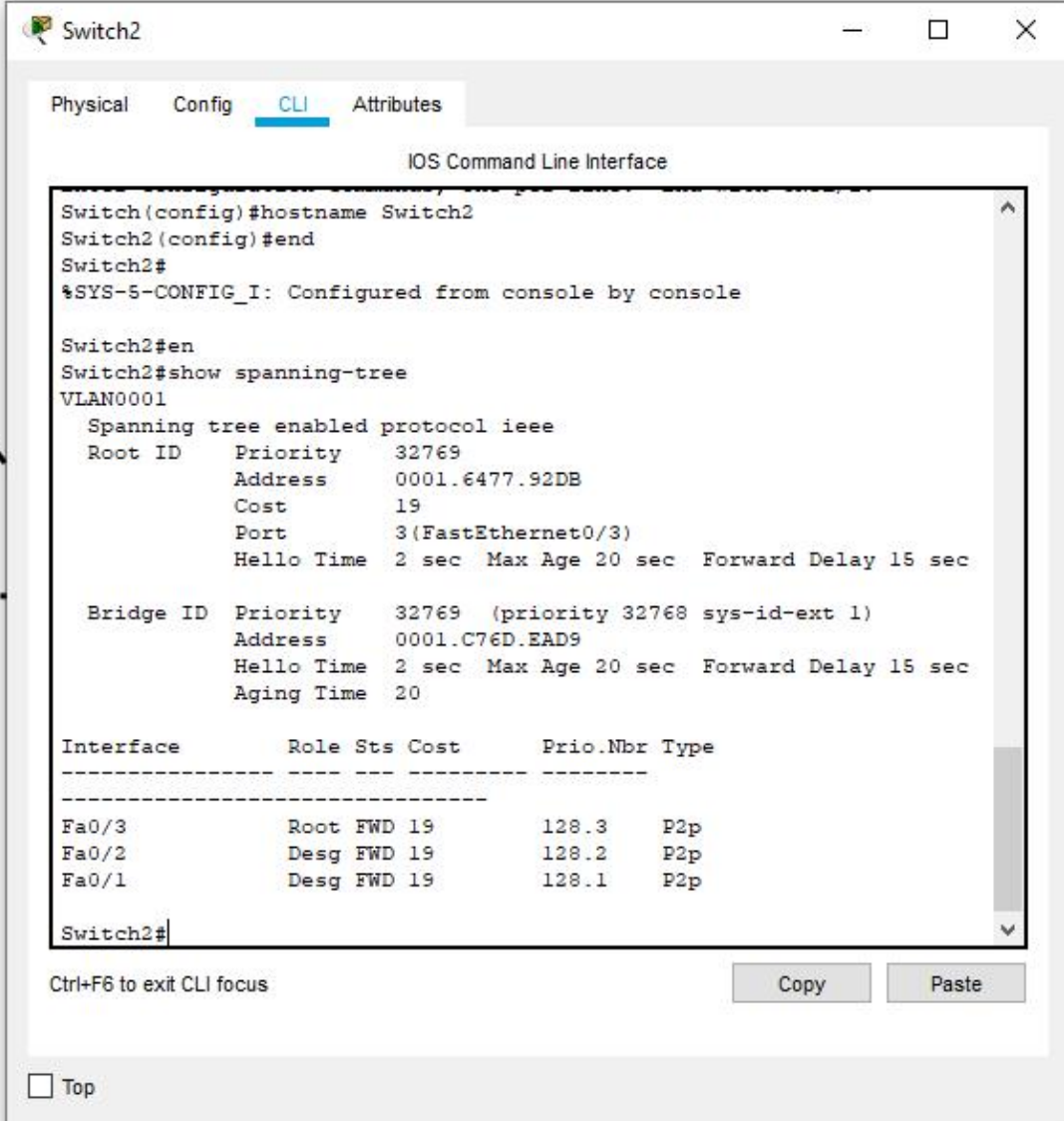
Ctrl+F6 to exit CLI focus         Copy    Paste

☐ Top

Switch 2

Physical    Config    CLI    Attributes

IOS Command Line Interface

```
Switch(config)#hostname Switch2
Switch2(config)#end
Switch2#
%SYS-5-CONFIG_I: Configured from console by console

Switch2#en
Switch2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.6477.92DB
             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     0001.C76D.EAD9
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- --------
--------------------------------
Fa0/3            Root FWD 19        128.3    P2p
Fa0/2            Desg FWD 19        128.2    P2p
Fa0/1            Desg FWD 19        128.1    P2p

Switch2#
```

Ctrl+F6 to exit CLI focus          Copy    Paste

☐ Top

Switch 3

```
Switch3                                                          —    □    ×

Physical    Config    CLI    Attributes
                           IOS Command Line Interface

Switch#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname Switch3
Switch3(config)#end
Switch3#
%SYS-5-CONFIG_I: Configured from console by console

Switch3#en
Switch3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.6477.92DB
             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     0001.6477.92DB
             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
Fa0/1             Desg FWD 19        128.1    P2p

Switch3#

Ctrl+F6 to exit CLI focus                           Copy        Paste

□ Top
```

Switch1

| NO | Variabel | Nilai |
|---|---|---|
| 1 | Root ID | 0001.6477.92DB |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.6477.92DB |
| 4 | Bridge ID | 0001.6477.92DB |
| 5 | Cost (0/1;0/2;0/3) | 19/19 |
| 6 | Hello Time | 2 sec |
| 7 | MaxAge | 20 sec |
| 8 | Forward Delay | 15 sec |

Switch2

| NO | Variabel | Nilai |
|---|---|---|
| 1 | Root ID | 0001.6477.92DB |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.6477.92DB |
| 4 | Bridge ID | 0001.6477.92DB |
| 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 |

Switch3

| NO | Variabel | Nilai |
|---|---|---|
| 1 | Root ID | 0001.6477.92DB |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.6477.92DB |
| 4 | Bridge ID | 0001.6477.92DB |
| 5 | Cost (0/1;0/2;0/3) | 19/19 |
| 6 | Hello Time | 2 sec |
| 7 | MaxAge | 20 sec |
| 8 | Forward Delay | 15 sec |

Root bridge : SW1

Designated bridge : SW3 Root port : SW2 (Fa0/1), SW3(Fa0/2)

Designated port : SW1(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/3), SW3(Fa0/2;Fa0/3)

Forwarding : SW1(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/1;Fa0/2;Fa0/3),

SW3(Fa0/1;Fa0/2;Fa0/3)

Blocking : None