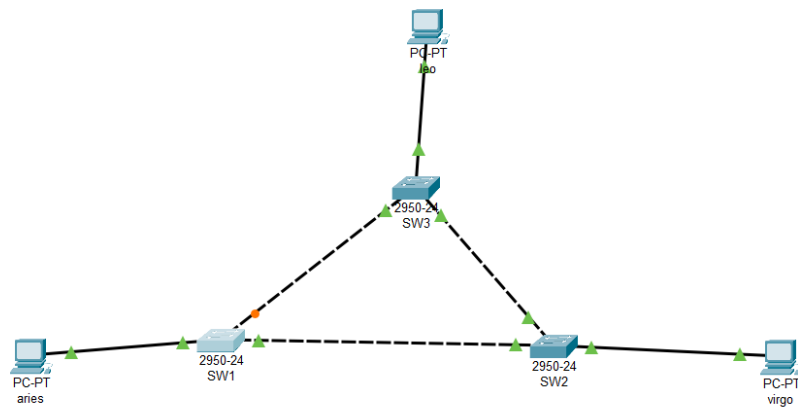


Nama : Firdaus Aulia Faza

NIM : L200180042

Kelas :B

Kegiatan 1 :



Tugas 1A

a) Pilih pada bagian Network Device, switches, pilih tipe 2950-24, letakkan 3 switch, berikan nama SW1, SW2, SW3 pada masing-masing switch

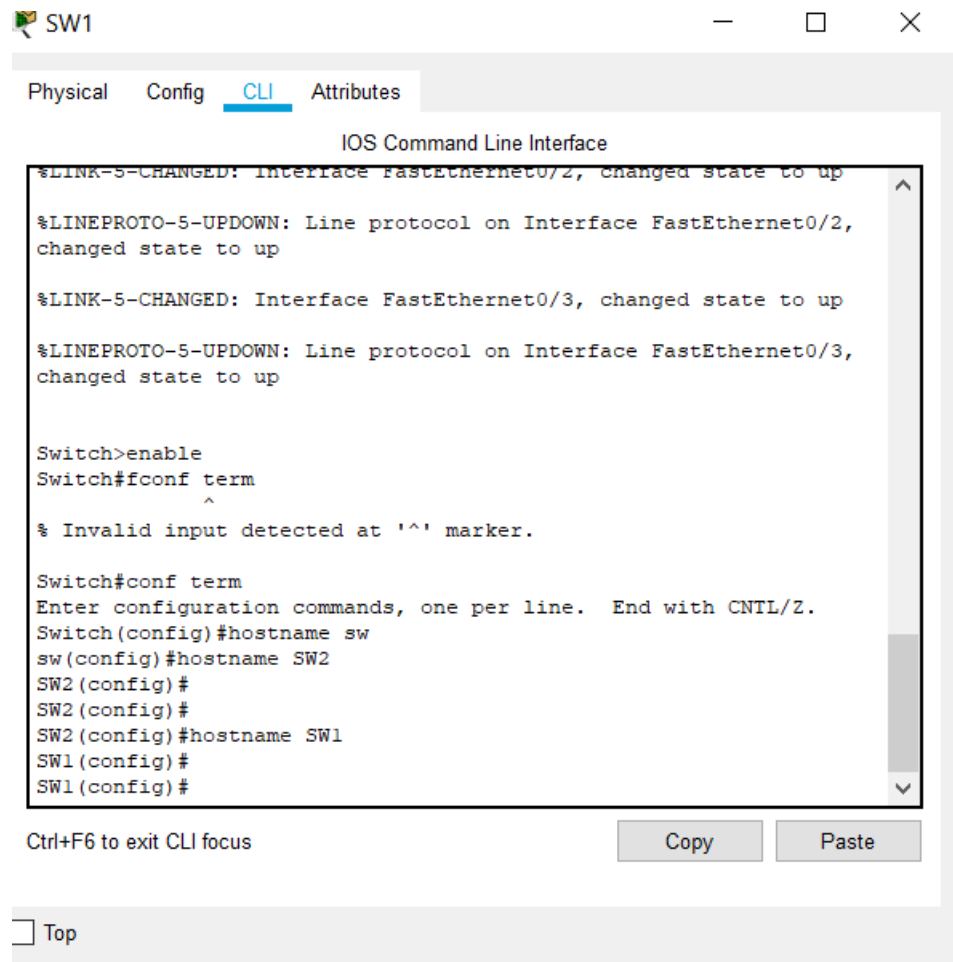
b) Pilih pada bagian End Devic, PC, letakkan 3 komputer, berikan nama Aries, Leo dan Virgo pada masing-masing computer

c) Hubungkan dengan kabel.

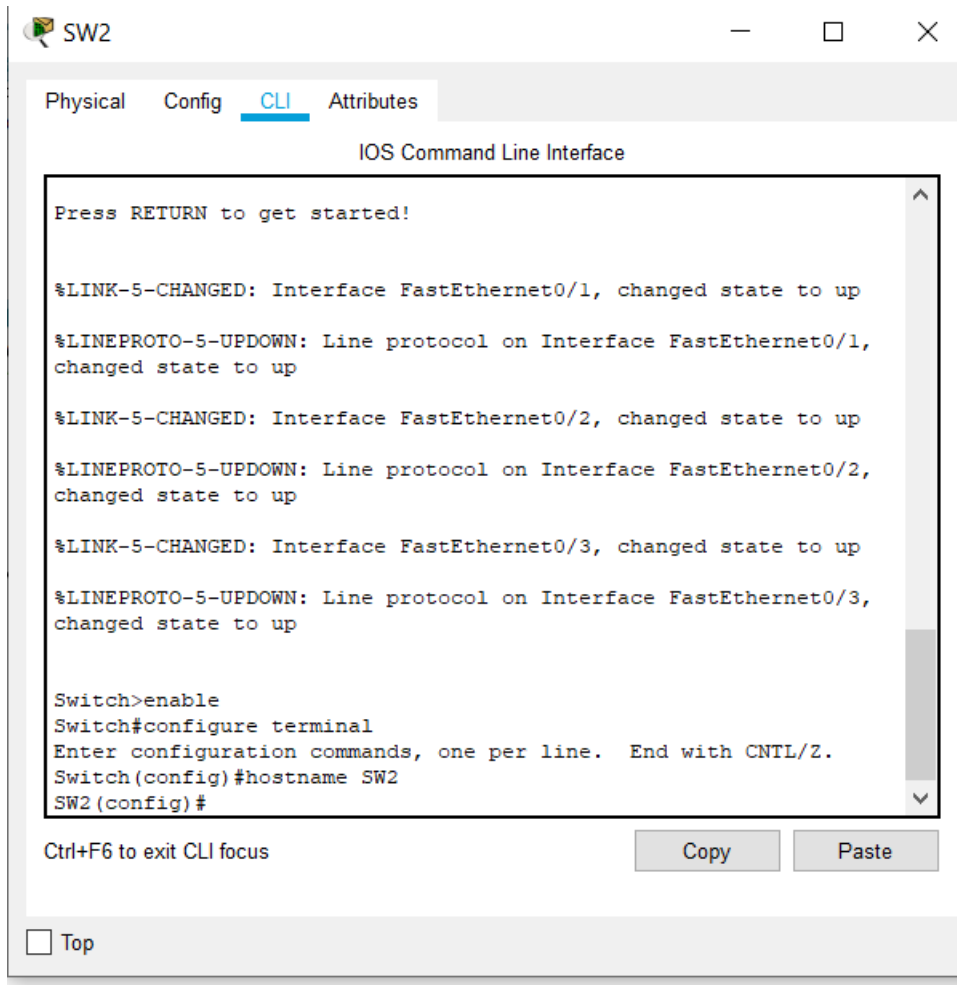
Tugas 2A

Langkah-langkah pemberian nama masing-masing dengan SSW1, SW2, dan SW3 dengan cara klik enable, ketik conf term, ketik hostname SW1/SW2/SW3 ketik exit

SW1 :



SW 2 :




The screenshot shows a network configuration window for a device named SW2. The window has a title bar with a minimize button, a maximize button, and a close button. Below the title bar is a tabbed interface with three tabs: 'Physical', 'Config', and 'CLI'. The 'CLI' tab is currently selected and highlighted. The main content area is titled 'IOS Command Line Interface' and contains a text area with the following text:

```
Press RETURN to get started!  
  
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,  
changed state to up  
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,  
changed state to up  
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,  
changed state to up  
  
Switch>enable  
Switch#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Switch(config)#hostname SW2  
SW2(config)#
```

Below the text area, there is a status bar that says 'Ctrl+F6 to exit CLI focus'. To the right of the status bar are two buttons: 'Copy' and 'Paste'. At the bottom left of the window, there is a checkbox labeled 'Top'.

SW 3 :

 SW3

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

Switch>enable
Switch#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)##h#hostname SW1
SW1(config)#cohostname SW2
SW2(config)#exit
SW2#
%SYS-5-CONFIG_I: Configured from console by console

SW2#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
SW2(config)#hostname SW1
SW1(config)#
SW1(config)#
SW1(config)#hostname SW3
SW3(config)#
SW3(config)#
```

Ctrl+F6 to exit CLI focus


Copy

Paste

☐ Top

Tugas 4A

SW 1 :

 SW1

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
enable
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000A.F3C7.749B
             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     00E0.A3C1.A155
             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          Altn BLK 19        128.1    P2p
Fa0/2          Root FWD 19        128.2    P2p

SW1#
```


Ctrl+F6 to exit CLI focus

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☐ Top

SW 2:

 SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
%SYS-5-CONFIG_I: Configured from console by console
enable
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000A.F3C7.749B
             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     000A.F3C7.749B
             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

SW2#
```


Ctrl+F6 to exit CLI focus

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☐ Top

SW 3:

 SW3 — □ ×

Physical Config CLI Attributes

IOS Command Line Interface

```
enable
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    000A.F3C7.749B
            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    0060.473C.26E3
            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          Root FWD 19        128.2    P2p

SW3#
```

Ctrl+F6 to exit CLI focus Copy Paste

☐ Top

NO	Variable	Nilai
1	Root id	32769
2	Priority	32769
3	Mac Address	000A.F3C7.749B
4	Bridge ID	32769 (priority 32768 sys-id-ext 1)
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	Max Age 20 sec
8	Forward Delay	15 sec

SW 2

NO	Variable	Nilai
1	Root id	32769
2	Priority	32769
3	Mac Address	000A.F3C7.749B
4	Bridge ID	32769 (priority 32768 sys-id-ext 1)
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 3 :

NO	Variable	Nilai
1	Root id	32769
2	Priority	32769
3	Mac Address	000A.F3C7.749B
4	Bridge ID	32769 (priority 32768 sys-id-ext 1)
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Tugas 4C

Pada kondisi default tersebut mana saja.

- Menjadi root bridge : SW2
- Menjadi designated bridge : SW3
- Menjadi root port : SW1(0/2), SW3(0/3)
- Menjadi designated port : SW3(0/3)

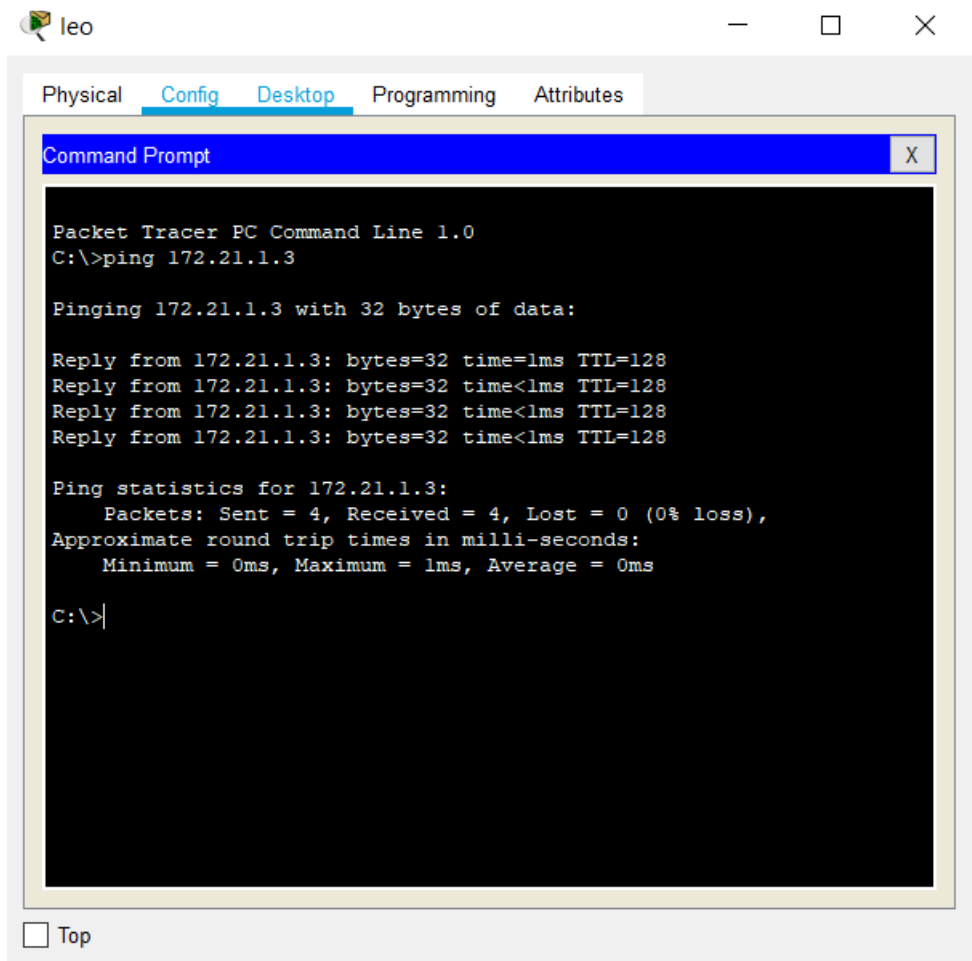
Tugas 4D

Pada kondisi default tersebut, dan port mana saja yang.

- Berada pada keadaan forwarding : SW1 (0/1, 0/2), SW2 (0/1, 0/2, 0/3), dan SW3 (0/1, 0/2, 0/3)
- Berada pada keadaan blocking : SW1 (fa 0/2)

Tugas 5A

Langkah untuk melakukan perintah ping dari PC Leo ke PC Virgo

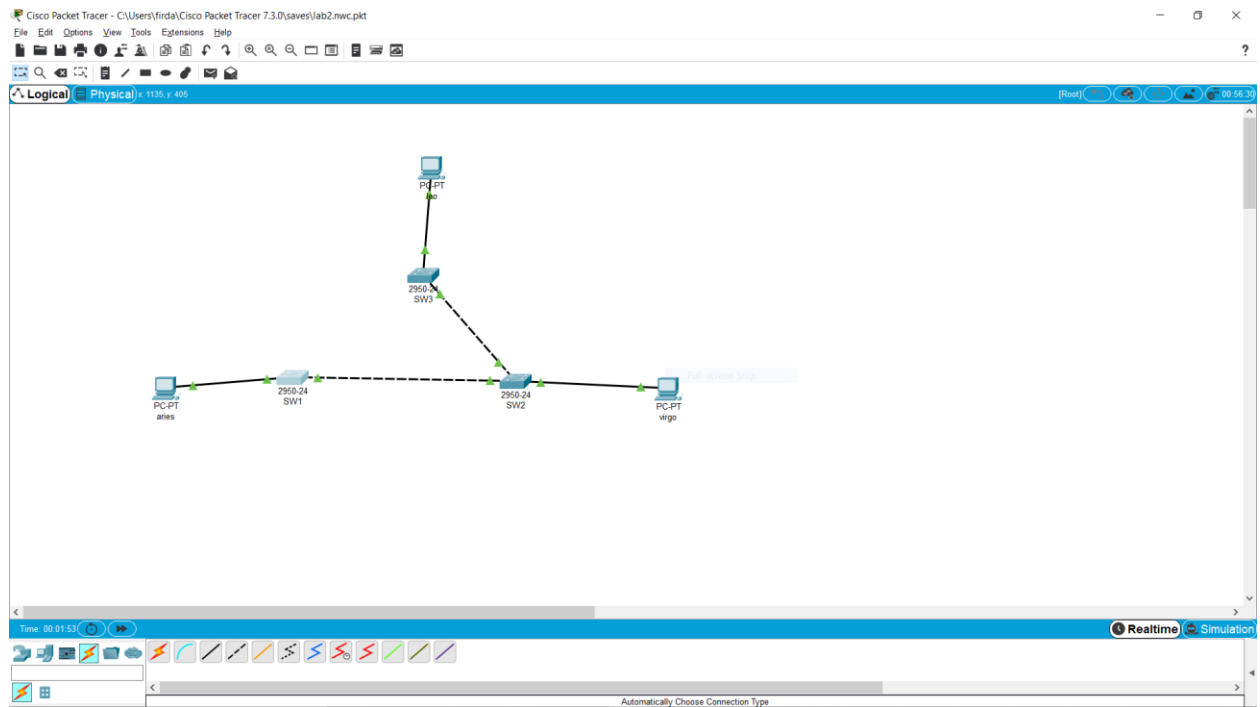


Tugas 6A:

Langkah untuk menyimpan konfigurasi jaringan

- 1) Ketik CTRL + S
- 2) Beri nama lab2 yang akan bereksistensi sesuai aplikasi yang digunakan

2. Kegiatan 2 topologi 2



SW 1-3 :

SW1

Physical Config CLI Attributes

IOS Command Line Interface

```
% Invalid input detected at '^' marker.  
  
SW1#show spanning-tree  
VLAN0001  
Spanning tree enabled protocol ieee  
Root ID    Priority    32769  
           Address      000A.F3C7.749B  
           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      00E0.A3C1.A155  
           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  
Fa0/3          Desg FWD 19        128.3    P2p  
  
SW1#
```

Ctrl+F6 to exit CLI focus

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☐ Top

IOS Command Line Interface

```
SW2>enable
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000A.F3C7.749B
             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     000A.F3C7.749B
             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          Desg FWD 19        128.3    P2p

SW2#
```

Ctrl+F6 to exit CLI focus

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Physical Config CLI Attributes

IOS Command Line Interface

```
SW3>enable
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000A.F3C7.749B
             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     0060.473C.26E3
             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

SW3#
```

Ctrl+F6 to exit CLI focus

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☐ Top

SW 1 :

NO	Variable	Nilai
1	Root id	32769
2	Priority	32769
3	Mac Address	000A.F3C7.749B
4	Bridge ID	32769 (priority 32768 sys-id-ext 1)
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 2 :

NO	Variable	Nilai
1	Root id	32769
2	Priority	32769
3	Mac Address	000A.F3C7.749B
4	Bridge ID	32769 (priority 32768 sys-id-ext 1)
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 3 :

NO	Variable	Nilai
1	Root id	32769
2	Priority	32769
3	Mac Address	000A.F3C7.749B
4	Bridge ID	32769 (priority 32768 sys-id-ext 1)
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Pada kondisi default tersebut mana saja.

- Menjadi root bridge : SW3
- Menjadi designated bridge : SW1
- Menjadi root port : SW1(0/3), SW2(0/3)
- Menjadi designated port : SW1(0/1), SW2(0/1, 0/2), SW3(0/1)

Pada kondisi default tersebut dan port mana saja yang.

- Berada pada keadaan forwarding : SW1 (0/1, 0/3), SW2 (0/1, 0/3), dan SW3 (0/1, 0/2, 0/3)

Melakukan ping dari Leo ke PC Virgo

