

**Nama : Febrianto Ridwan Syah**  
**NIM : L200170121**  
**Kelas : C**

## KEGIATAN 1

### *Tugas 1A:*

1. Pilih pada bagian Network Devices => Switches => pilih tipe 2950-24 => letakkan 3 switch
2. Pilih pada bagian End Devices => Generic Computer => letakkan 3 computer
3. Hubungkan dengan kabel. Pilih connections => pilih gambar petir lalu sambungan

### *Tugas 2A:*

➤ Switch 1

**Switch>enable**

**Switch#conf term**

**Switch(config)#hostname SW1**

**SW1(config)#**

Begitupun dengan switch yang lain

### *Tugas 4A:*

➔ SW1

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

%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)#hostname SW1
SW1(config)#exit
SW1#
%SYS-5-CONFIG_I: Configured from console by console

SW1#show spanning tree
^
% Invalid input detected at '^' marker.

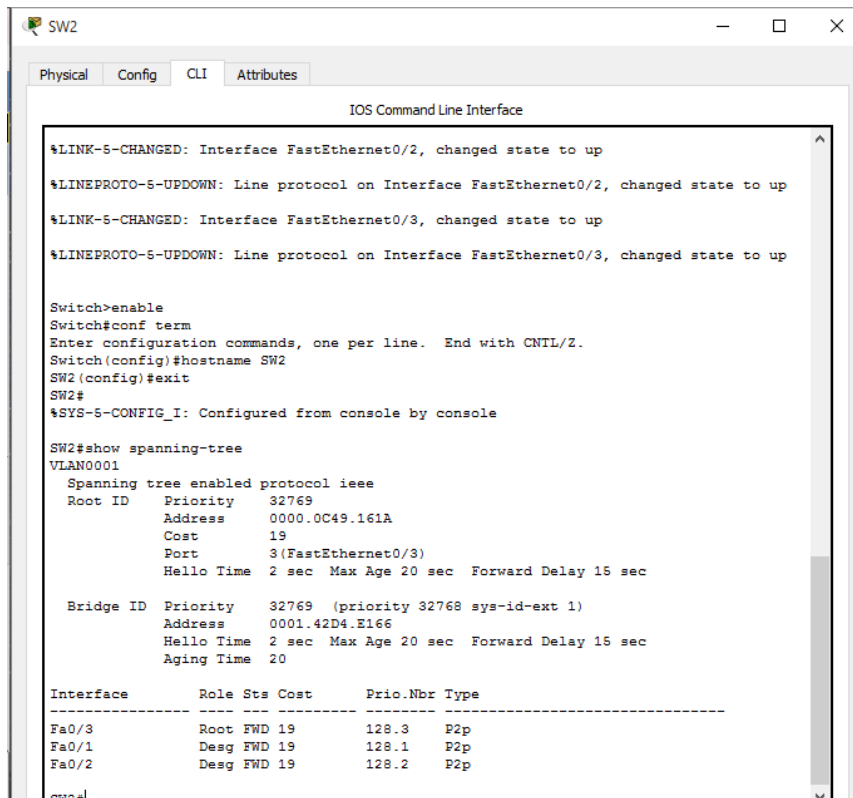
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0000.0C49.161A
             Cost        19
             Port        3(FastEthernet0/3)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     0030.A3B7.A5A0
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

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

SW1#
```

## ➔ SW2



SW2

Physical Config CLI Attributes

IOS Command Line Interface

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

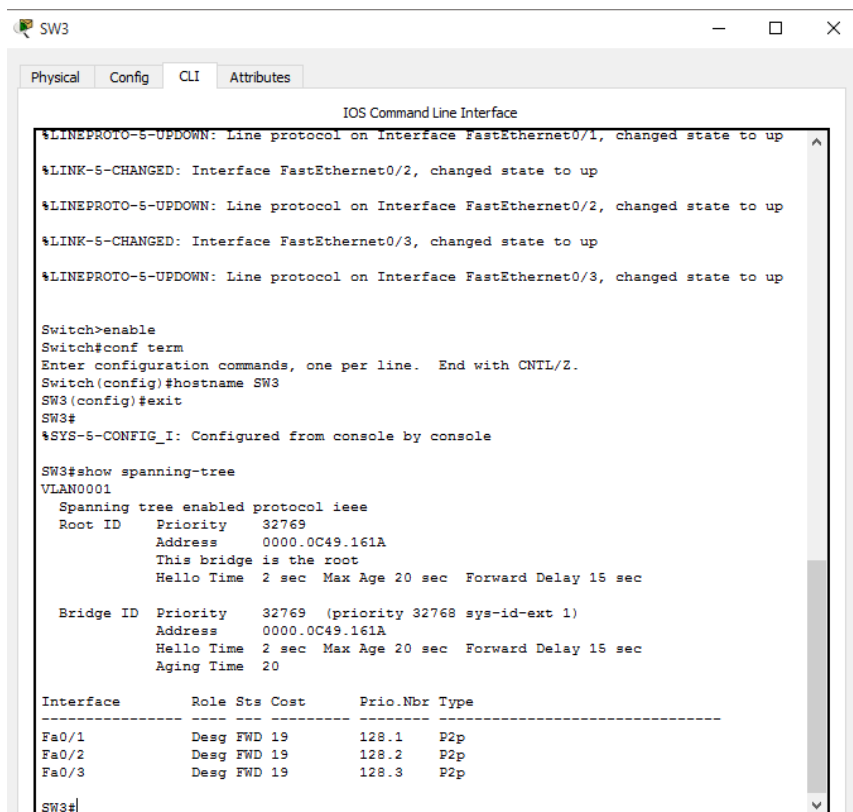
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0000.0C49.161A
            Cost        19
            Port        3(FastEthernet0/3)
            Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
            Address    0001.42D4.E166
            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
Fa0/1     Desg FWD 19   128.1 P2p
Fa0/2     Desg FWD 19   128.2 P2p
```

SW2#

## ➔ SW3



SW3

Physical Config CLI Attributes

IOS Command Line Interface

```
%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#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
SW3#
%SYS-5-CONFIG_I: Configured from console by console

SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0000.0C49.161A
            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    0000.0C49.161A
            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
```

SW3#

**Tugas 4B:**

## ➤ SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0030.A3B7.A5A0
4	Bridge ID	32769
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	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0001.42D4.E166
4	Bridge ID	32769
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	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0000.0C49.161A
4	Bridge ID	32769
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:**

- root bridge: SW3
- designed bridge: SW2
- root port: SW1(fa 0/3) dan SW2(fa 0/3)
- designed port: SW1(fa 0/1), SW2(fa 0/1; fa 0/2), dan SW3(fa 0/1; fa 0/2; fa 0/3)

**Tugas 4D:**

- forwarding:

SW1(fa 0/1; fa 0/3)

SW2(fa 0/1; fa 0/2; fa 0/3)

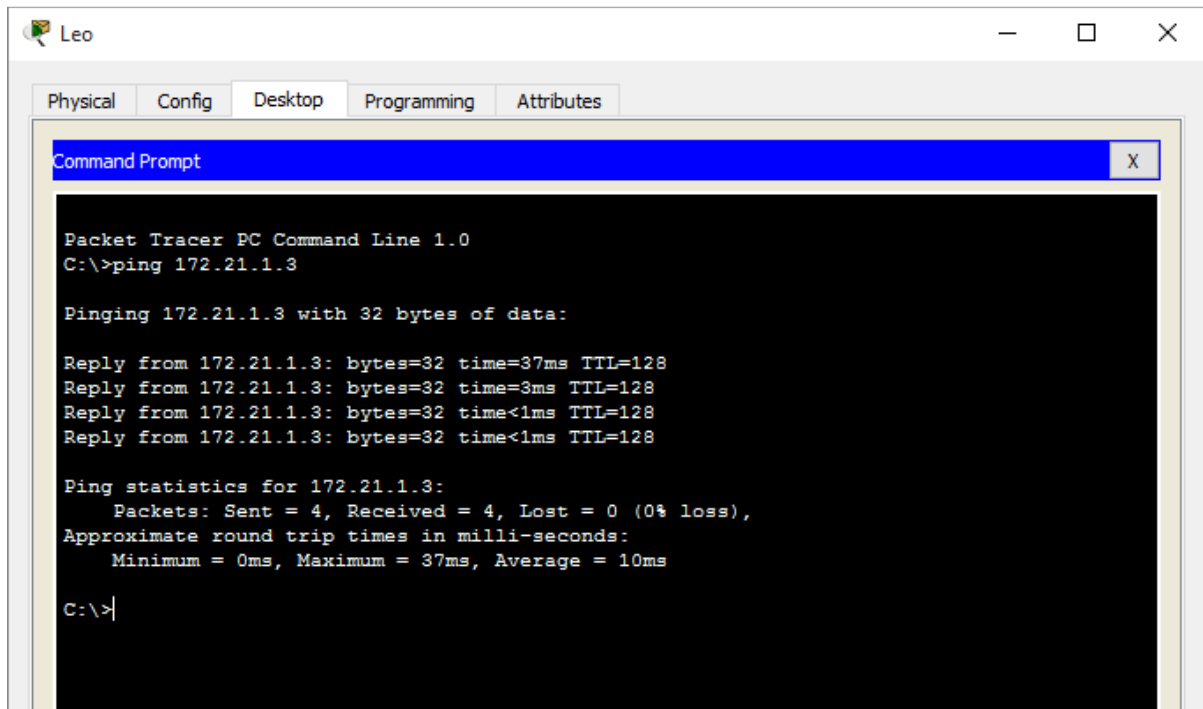
SW3(fa 0/1; fa 0/2; fa 0/3)

- blocking

SW1(fa 0/2)

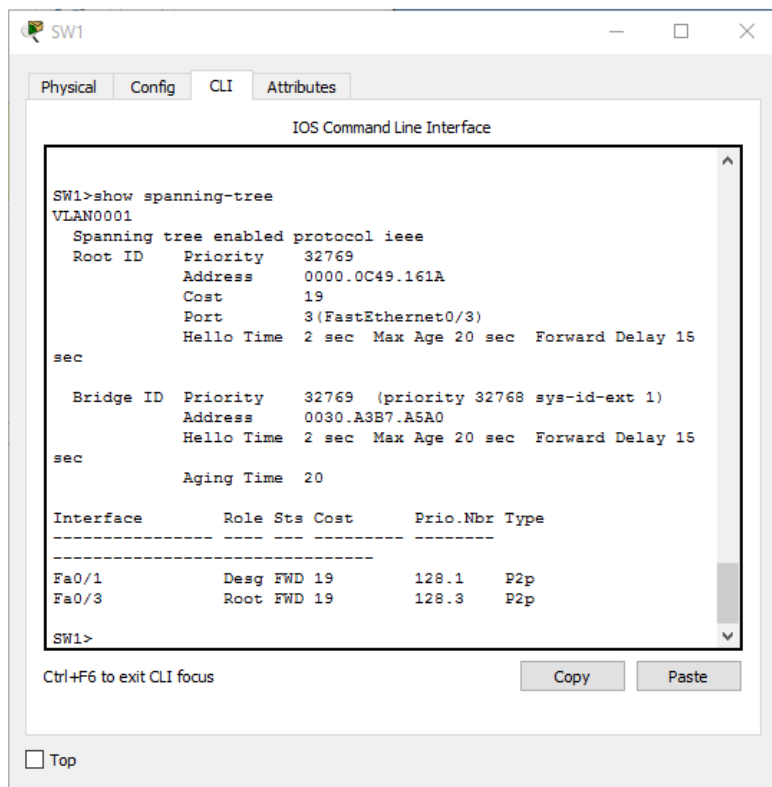
**Tugas 5A:**

1. Klik pada pc leo
2. Pilih tab desktop
3. Pilih command prompt
4. Tuliskan ping 172.21.1.3

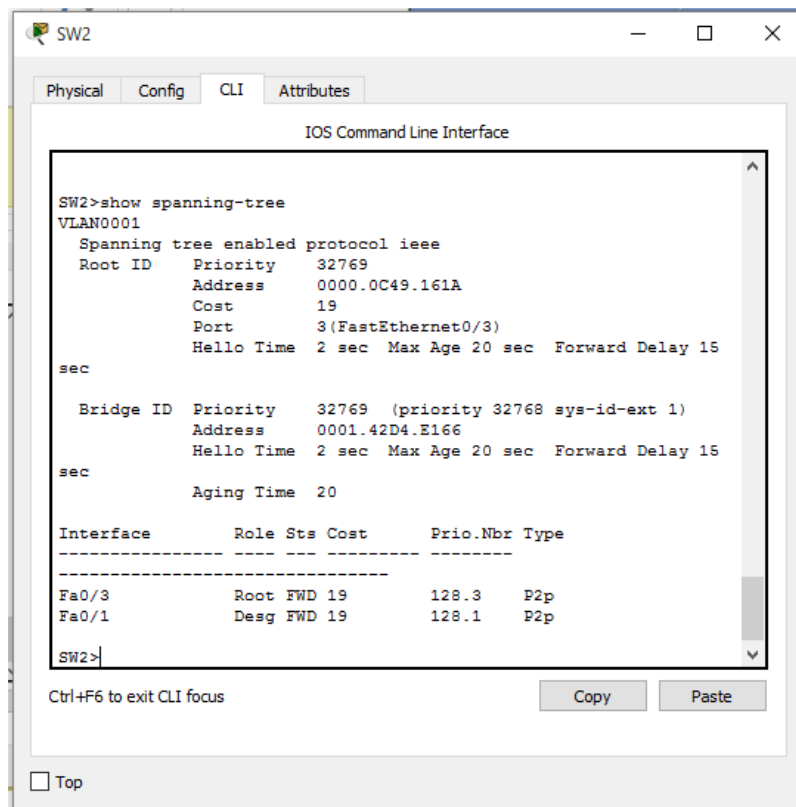
**Tugas 6A:**

1. Pilih file
2. Pilih save
3. Beri nama lab2 yang akan berkestensi sesuai aplikasi yang digunakan

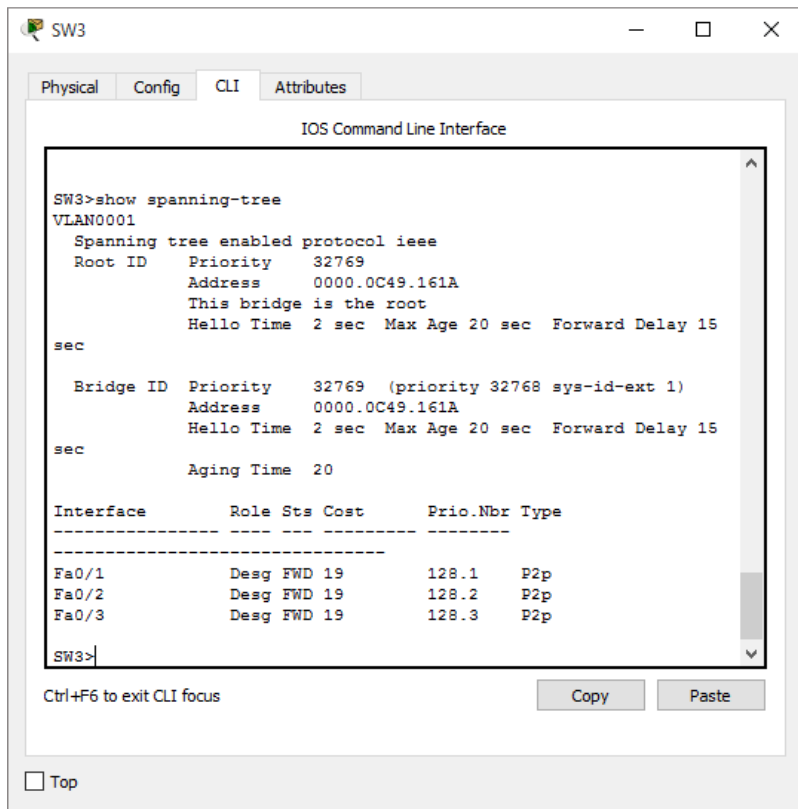
Kegiatan 2:  
**Tugas 9A:**  
- SW1



-SW2



-SW3



-SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0030.A3B7.A5A0
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

-SW2 No

	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0001.42D4.E166
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19

6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

- SW3 No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0000.0C49.161A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

- root bridge: SW3
- designed bridge: SW1, SW2
- root port: SW1(fa 0/3) dan SW2(fa 0/3)
- designed port: SW1(fa 0/1), SW2(fa 0/1), dan SW3(fa 0/1; fa 0/2; fa 0/3)
- forwarding:
  - SW1(fa 0/1; fa 0/3)
  - SW2(fa 0/1; fa 0/3)
  - SW3(fa 0/1; fa 0/2; fa 0/3)
- blocking: tidak ada yang terblock