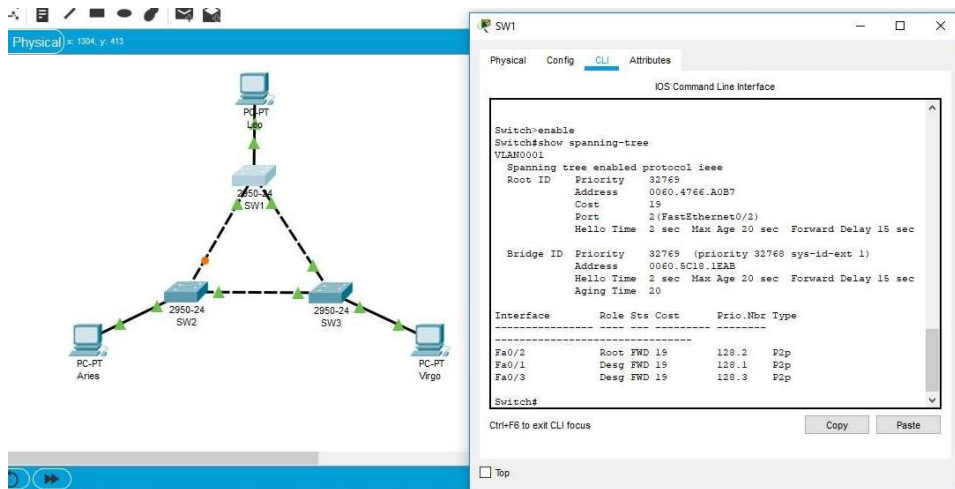


# Praktikum Jaringan Komputer Modul 6

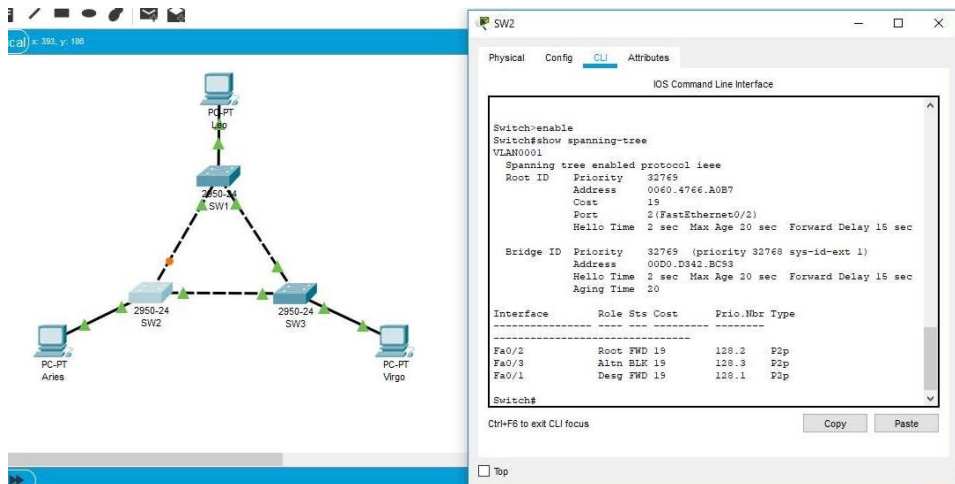
Nama : Edi Supriyanto  
NIM : L200180002  
Kelas : A

## Kegiatan 1.Topologi 1

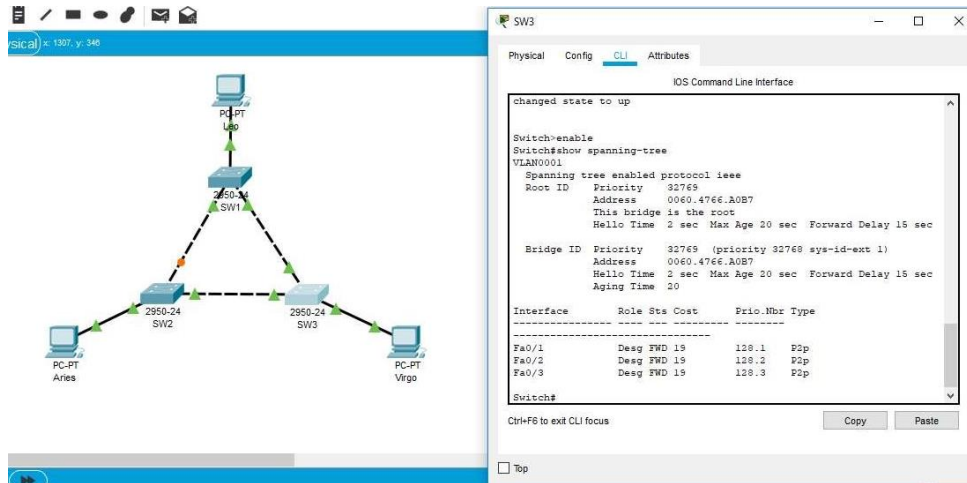
### SW1



### SW



## SW3



Tugas 4B : Untuk tiap-tiap switch, isikan table berikut:

## SW1

No	Variabel	Nilai
1	Root ID	32769, 0060.4766.A0B7
2	Priority	32769
3	MAC Address	0060.4766.A0B7
4	Bridge ID	32769, 0060.4766.A0B7
5	Cost(0/1;0/2;0/3)	0/1;Desg,FWD,19 0/2;Root,FWD,19 0/3;Desg,FWD,19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

## SW2

No	Variabel	Nilai
1	Root ID	32769, 0060.4766.A0B7
2	Priority	32769
3	MAC Address	0060.4766.A0B7
4	Bridge ID	32769, 0060.4766.A0B7
5	Cost(0/1;0/2;0/3)	0/1;Desg,FWD,19 0/2;Root,FWD,19 0/3;Altn,BLK,19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

## SW3

No	Variabel	Nilai
1	Root ID	32769, 0060.4766.A0B7
2	Priority	32769
3	MAC Address	0060.4766.A0B7
4	Bridge ID	32769, 0060.4766.A0B7
5	Cost(0/1;0/2;0/3)	0/1;Desg,FWD,19 0/2;Desg,FWD,19 0/3;Desg,FWD,19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

Tugas 4C : Pada Kondisi default, switch dan port mana saja yang:

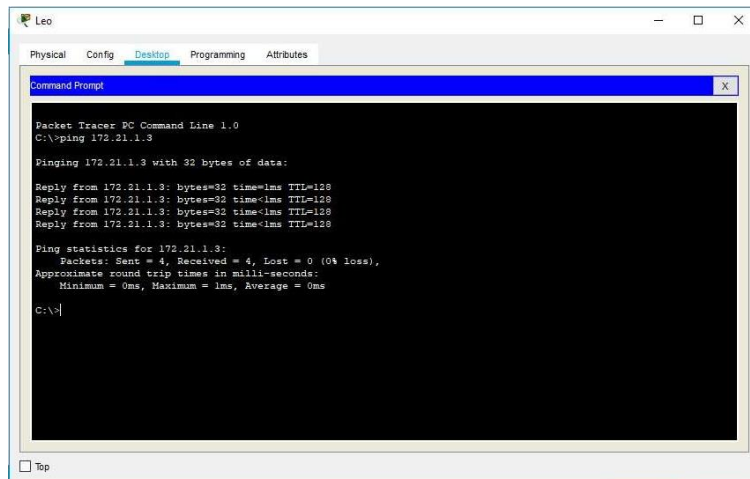
- Menjadi root bridge : SW3
- Menjadi designated bridge : SW3
- Menjadi root port : SW1(Fa0/2) dan SW2(Fa0/2)
- Menjadi designated port : SW1(Fa0/1, Fa0/3), SW2(Fa0/1) dan SW3(Fa0/1, Fa0/2, Fa0/3)

Tugas 4D : Pada Kondisi default, switch dan port mana saja yang:

- Berada pada keadaan forwarding : SW1(Fa0/1, Fa0/2, Fa0/3), SW2(Fa0/1, Fa0/2) dan SW3(Fa0/1, Fa0/2, Fa0/3)
- Berada pada keadaan blocking : SW2(Fa0/3)

Dari PC Leo lakukan ping ke PC Virgo

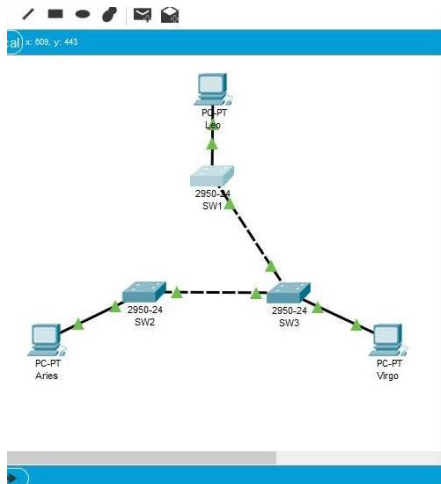
Tugas 5A : Tulis langkah untuk menyimpan perintah ping



- Klik pada PC Leo
- Klik Desktop
- Klik Command Prompt
- Klik Ping IP PC Virgo

## Kegiatan 2.Topologi 2

### SW1



Network diagram showing SW1 connected to SW2 and SW3. SW1 is connected to SW2 and SW3 via 2950-24 ports. PC-PT Aries and PC-PT Virgo are connected to SW2 and SW3 respectively.

```
graph TD
    SW1[SW1] --- SW2[SW2]
    SW1[SW1] --- SW3[SW3]
    SW2[SW2] --- Aries[PC-PT Aries]
    SW3[SW3] --- Virgo[PC-PT Virgo]
```

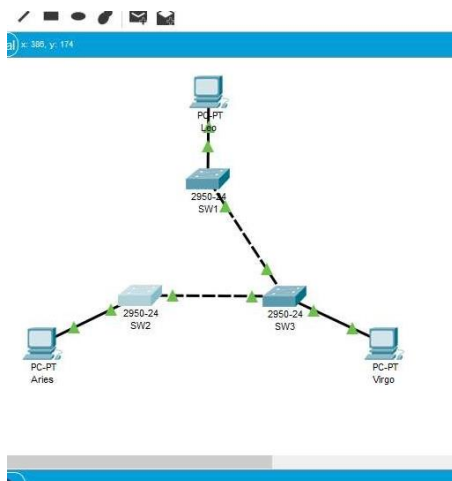
SW1 CLI output:

```
Switch>enable
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    0060.4766.A0B7
           Cost      19
           Port      2(FastEthernet0/2)
           Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec

Bridge ID  Priority    32769 (priority 32769 sys-id-ext 1)
           Address    0060.6C19.12A5
           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
```

### SW2



Network diagram showing SW2 connected to SW1 and SW3. SW2 is connected to SW1 and SW3 via 2950-24 ports. PC-PT Aries and PC-PT Virgo are connected to SW2 and SW3 respectively.

```
graph TD
    SW2[SW2] --- SW1[SW1]
    SW2[SW2] --- SW3[SW3]
    SW2[SW2] --- Aries[PC-PT Aries]
    SW3[SW3] --- Virgo[PC-PT Virgo]
```

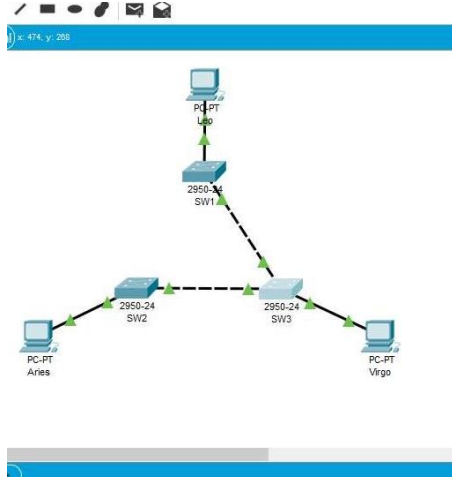
SW2 CLI output:

```
Switch>enable
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    0060.4766.A0B7
           Cost      19
           Port      2(FastEthernet0/2)
           Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec

Bridge ID  Priority    32769 (priority 32769 sys-id-ext 1)
           Address    00D0.D342.BC93
           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
```

### SW3



Network diagram showing SW3 connected to SW1 and SW2. SW3 is connected to SW1 and SW2 via 2950-24 ports. PC-PT Aries and PC-PT Virgo are connected to SW2 and SW3 respectively.

```
graph TD
    SW3[SW3] --- SW1[SW1]
    SW3[SW3] --- SW2[SW2]
    SW2[SW2] --- Aries[PC-PT Aries]
    SW3[SW3] --- Virgo[PC-PT Virgo]
```

SW3 CLI output:

```
Switch>enable
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    0060.4766.A0B7
           Cost      19
           Port      2(FastEthernet0/2)
           Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
           This bridge is the root

Bridge ID  Priority    32769 (priority 32769 sys-id-ext 1)
           Address    0060.4766.A0B7
           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
```

Tugas 4B : Untuk tiap-tiap switch, isikan table berikut:

SW1

No	Variabel	Nilai
1	Root ID	32769, 0060.4766.A0B7
2	Priority	32769
3	MAC Address	0060.4766.A0B7
4	Bridge ID	32769, 0060.4766.A0B7
5	Cost(0/1;0/2;0/3)	0/2;Root,FWD,19 0/3;Desg,FWD,19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	32769, 0060.4766.A0B7
2	Priority	32769
3	MAC Address	0060.4766.A0B7
4	Bridge ID	32769, 0060.4766.A0B7
5	Cost(0/1;0/2;0/3)	0/1;Desg,FWD,19 0/2;Root,FWD,19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

### SW3

No	Variabel	Nilai
1	Root ID	32769, 0060.4766.A0B7
2	Priority	32769
3	MAC Address	0060.4766.A0B7
4	Bridge ID	32769, 0060.4766.A0B7
5	Cost(0/1;0/2;0/3)	0/1;Desg,FWD,19 0/2;Desg,FWD,19 0/3;Desg,FWD,19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

Tugas 4C : Pada Kondisi default, switch dan port mana saja yang:

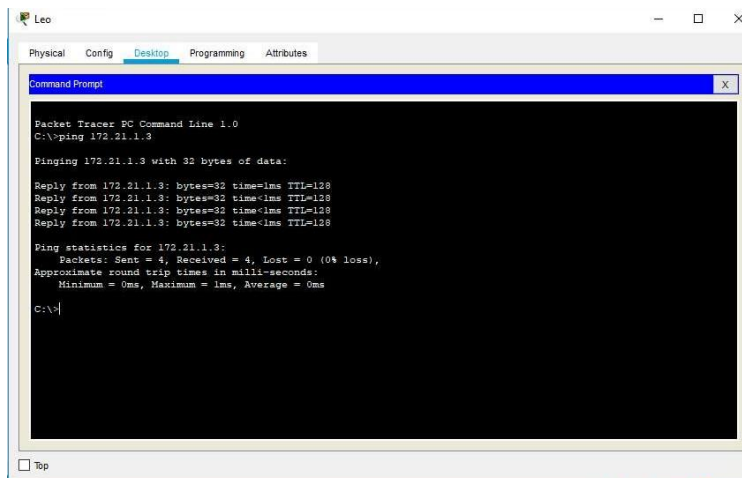
- Menjadi root bridge : SW3
- Menjadi designated bridge : SW3
- Menjadi root port : SW1(Fa0/2) dan SW2(Fa0/2)
- Menjadi designated port : SW1(Fa0/3), SW2(Fa0/1) dan SW3(Fa0/1, Fa0/2, Fa0/3)

Tugas 4D : Pada Kondisi default, switch dan port mana saja yang:

- Berada pada keadaan forwarding : SW1(Fa0/2, Fa0/3),SW2(Fa0/1, Fa0/2) dan SW3(Fa0/1, Fa0/2, Fa0/3)
- Berada pada keadaan blocking : -

Dari PC Leo lakukan ping ke PC Virgo

Tugas 5A : Tulis langkah untuk menyimpan perintah ping



- Klik pada PC Leo
- Klik Desktop
- Klik Command Prompt