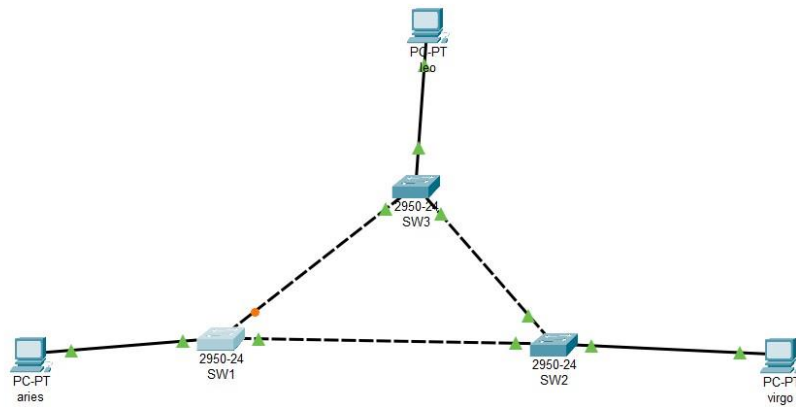


Nama : Resky Budi Nugroho

NIM : L200180018

Kelas : A

**Kegiatan 1 :**

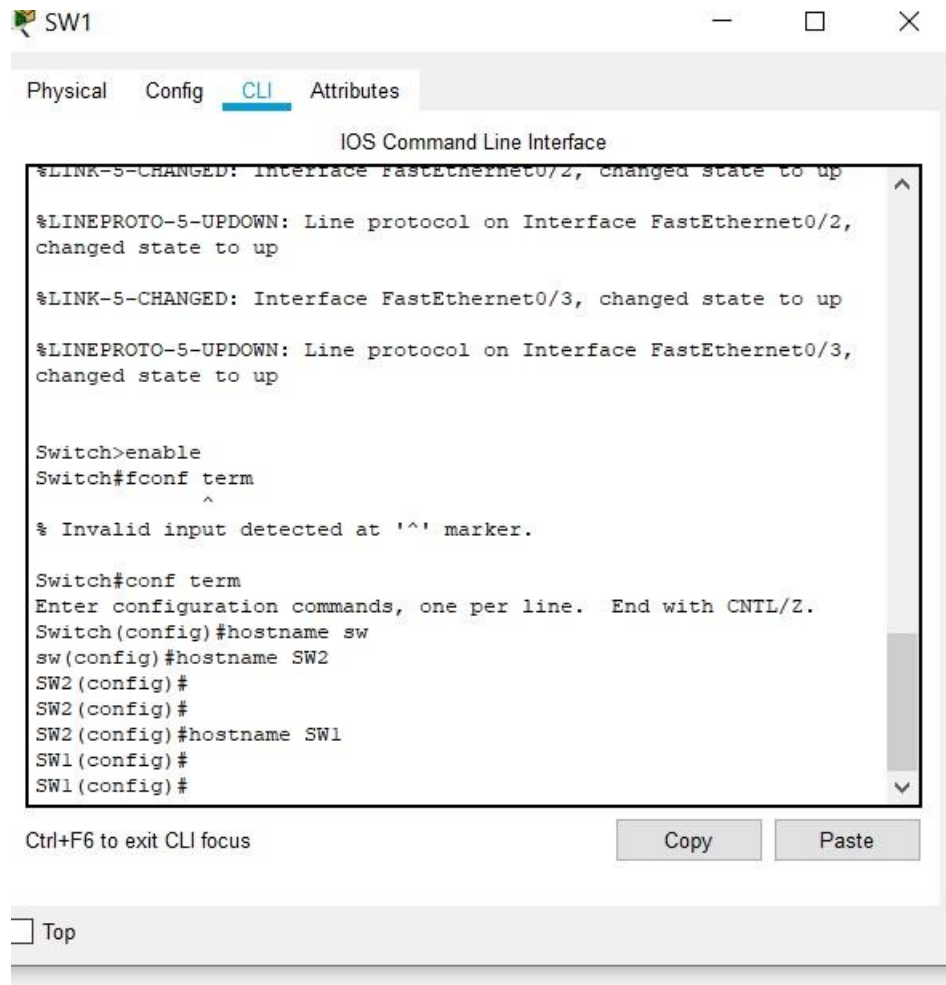


**Tugas 1A**

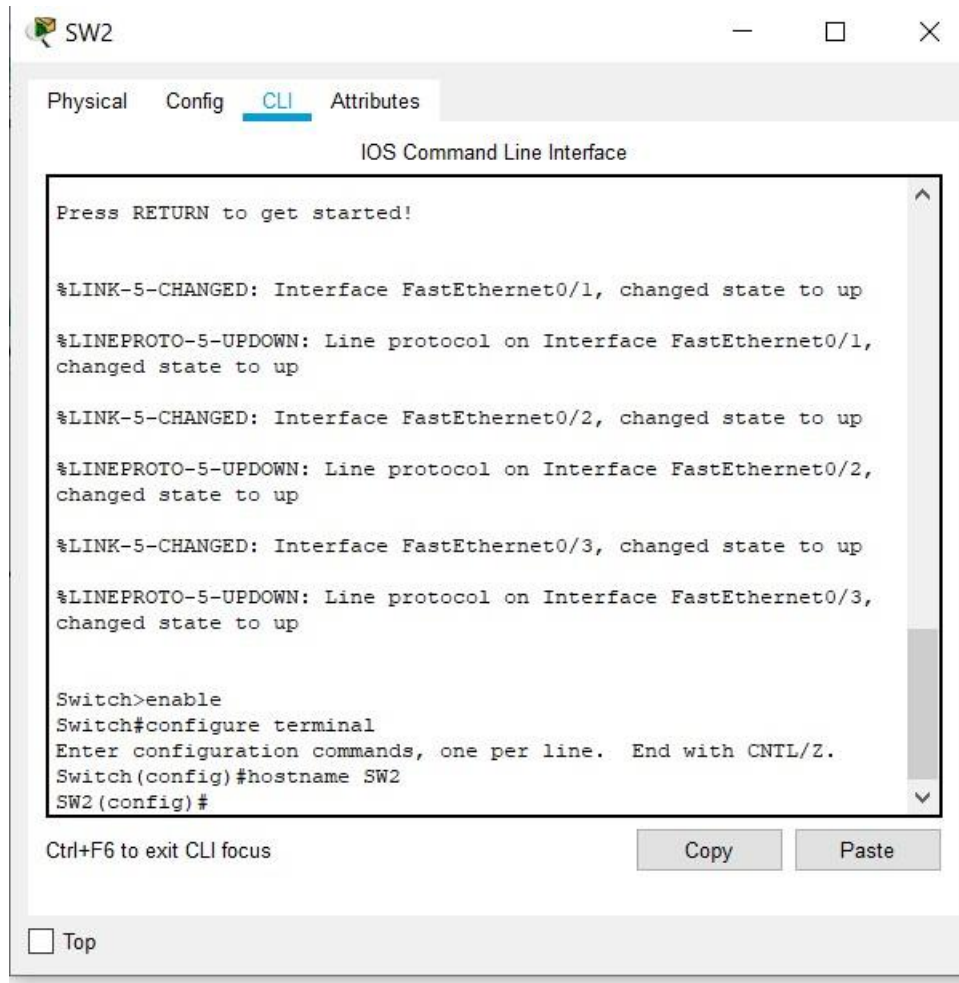
- Pilih pada bagian Network Device, switches, pilih tipe 2950-24, letakkan 3 switch, berikan nama SW1, SW2, SW3 pada masing-masing switch
- Pilih pada bagian End Devic, PC, letakkan 3 komputer, berikan nama Aries, Leo dan Virgo pada masing-masing computer
- Hubungkan dengan kabel.

## Tugas 2A

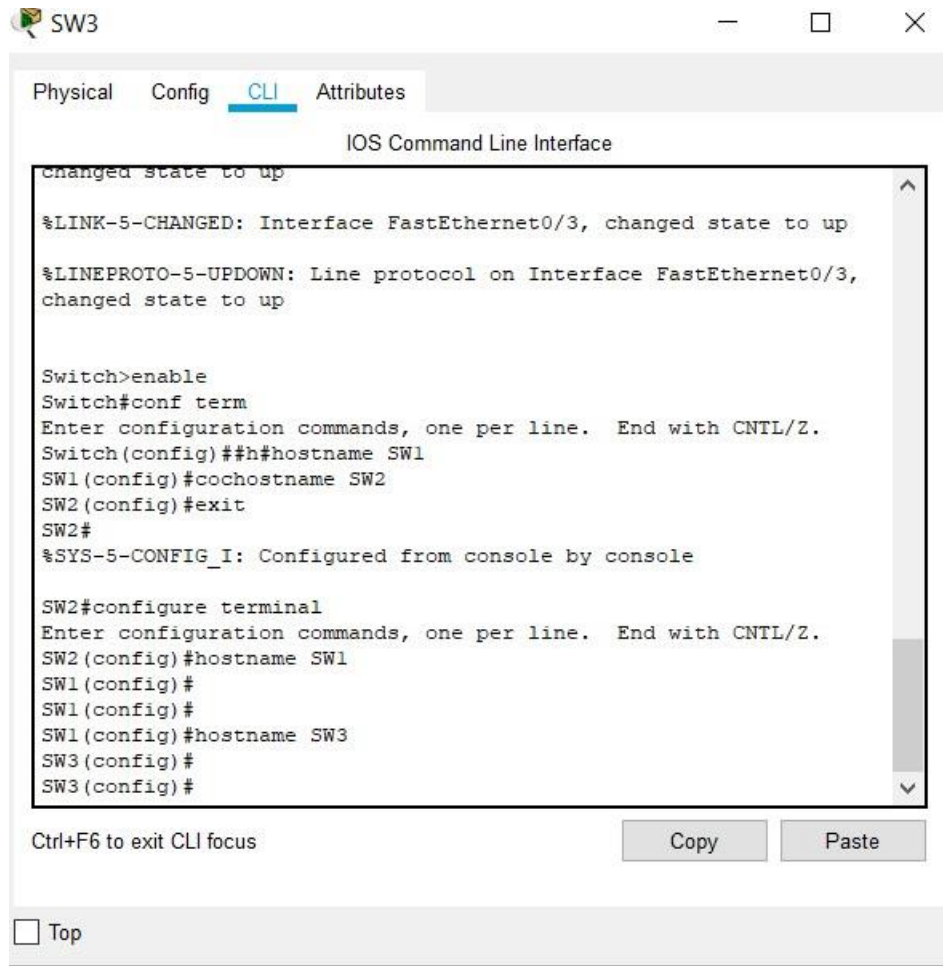
Langkah-langkah pemberian nama masing-masing dengan SSW1, SW2, dan SW3 dengan cara klik enable, ketik conf term, ketik hostname SW1/SW2/SW3 ketik exit **SW1** :



**SW 2 :**



**SW 3 :**



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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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#

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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

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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)

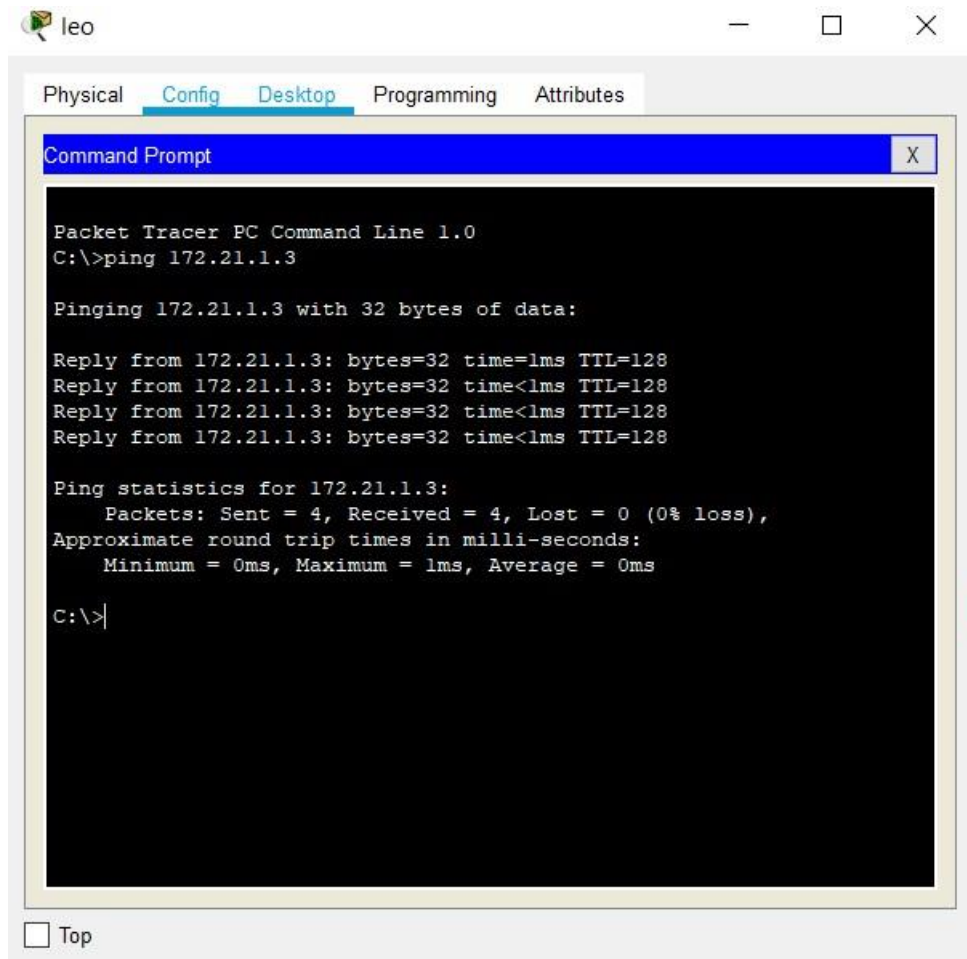
#### Tugas 4D

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



```
leo
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

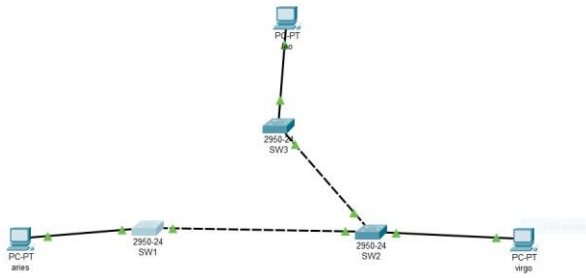
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Tugas 6A:

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 :



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#
```

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## 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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## 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#
```

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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

