

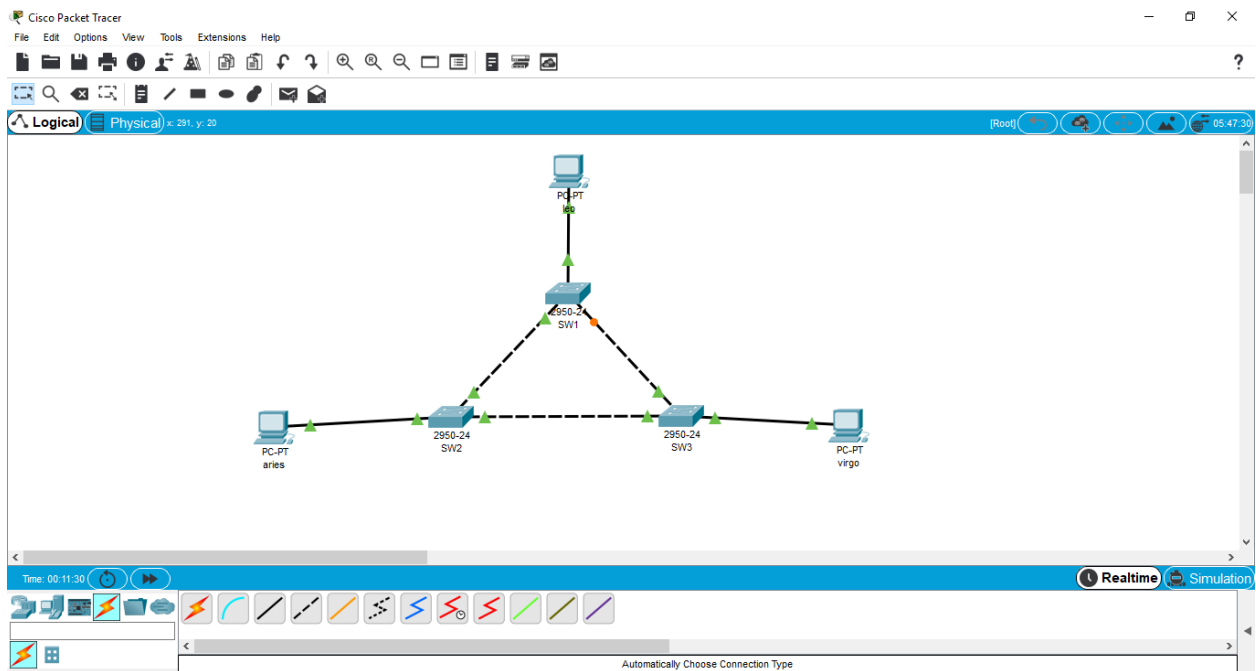
NAMA : DITA DENITA PRAMESTI

NIM : L200170139

KELAS : C


MODUL: 6

1.



Membuat topologi dengan masing-masing switch di beri nama SW1,SW2,SW3 dan setiap PC diberi nama leo,aries,dan virgo.

## 2. Memberi nama setiap switch

 SW1

Physical Config CLI Attributes

IOS Command Line Interface

```
Power supply part number: 34-0965-01
Motherboard serial number: FOC061004SZ
Power supply serial number: DAB0609127D
Model revision number: C0
Motherboard revision number: A0
Model number: WS-C2950-24
System serial number: FHK0610Z0WC

Cisco Internetwork Operating System Software
IOS (tm) C2950 Software (C2950-I6Q4L2-M), Version 12.1(22)EA4,
RELEASE SOFTWARE(fcl)
Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 18-May-05 22:31 by jharirba


Press RETURN to get started!

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
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

 SW2

Physical Config CLI Attributes

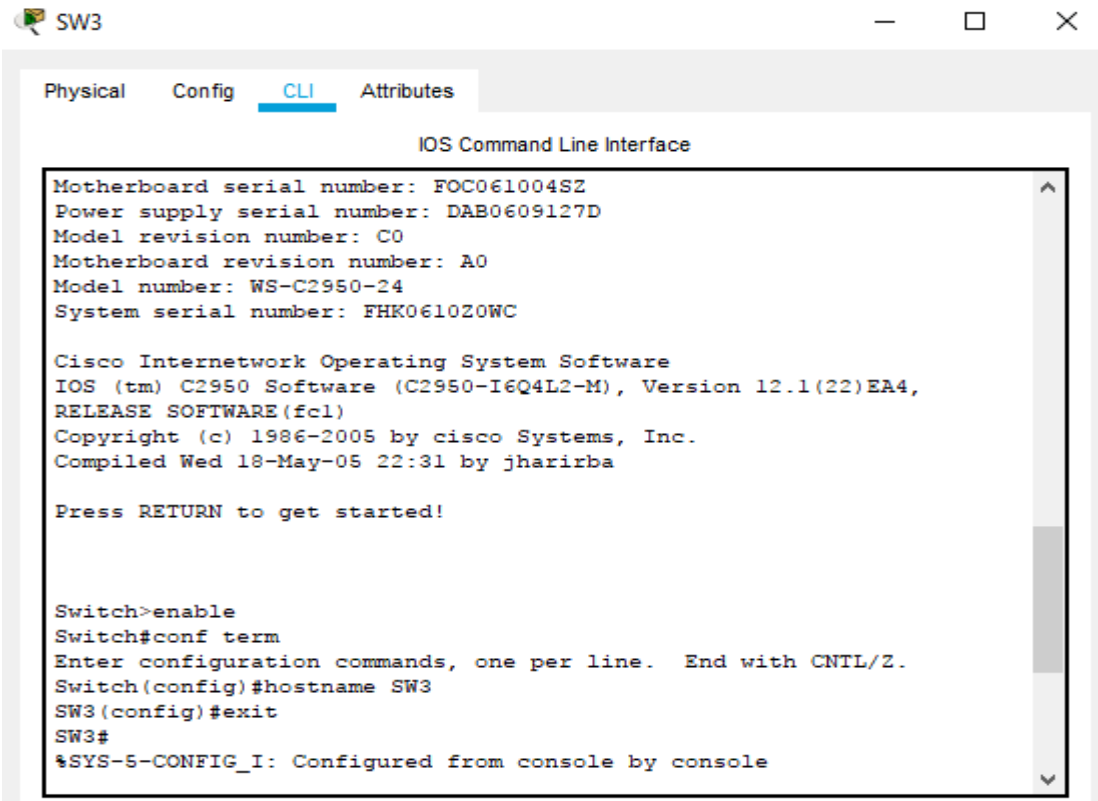
IOS Command Line Interface

```
Power supply part number: 34-0965-01
Motherboard serial number: FOC061004SZ
Power supply serial number: DAB0609127D
Model revision number: C0
Motherboard revision number: A0
Model number: WS-C2950-24
System serial number: FHK0610Z0WC

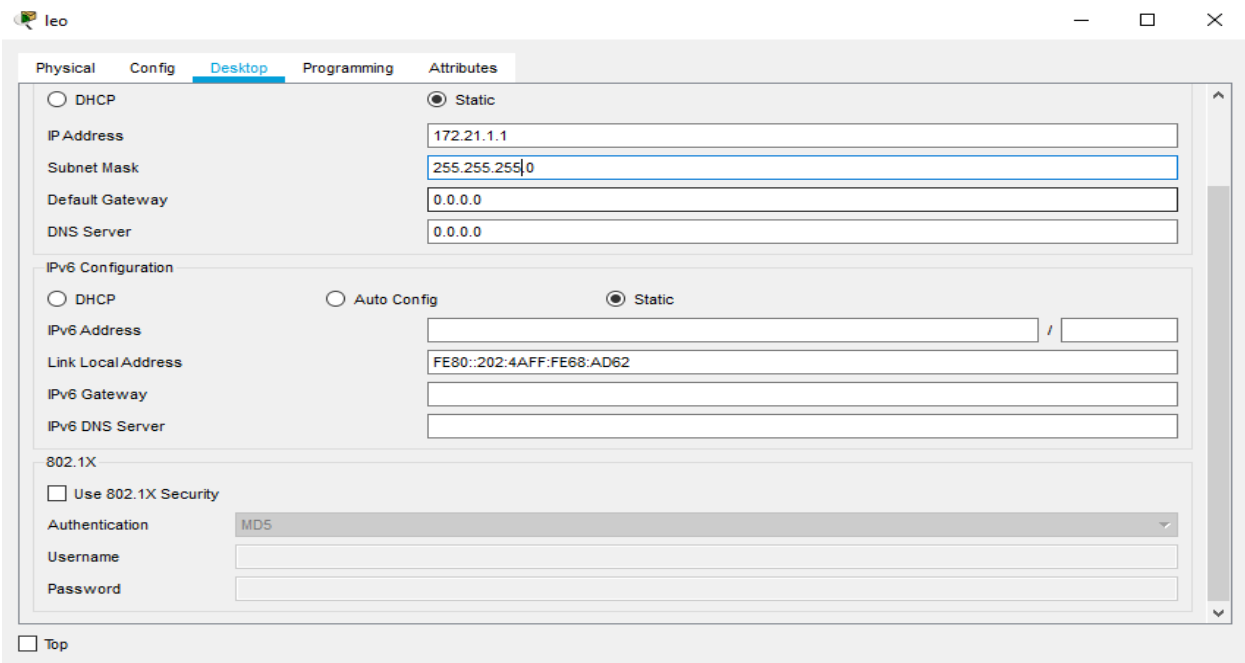
Cisco Internetwork Operating System Software
IOS (tm) C2950 Software (C2950-I6Q4L2-M), Version 12.1(22)EA4,
RELEASE SOFTWARE(fcl)
Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 18-May-05 22:31 by jharirba

Press RETURN to get started!

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
```



### 3. Konfigurasi masing-masing PC



aries

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 172.21.1.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::230:A3FF:FE02:969A

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

virgo

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 172.21.1.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:B0FF:FE2B:441

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

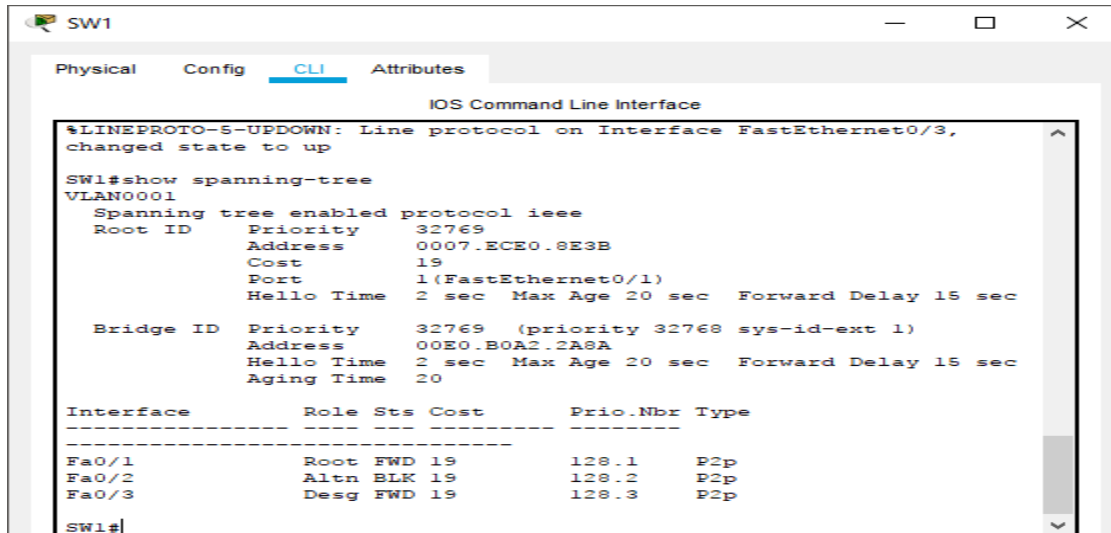
Untuk mengkonfigurasi masing masing PC dengan alamat email, pertama klik PC kemudian pilih→desktop→ip configuration.

Leo →172.21.1.1/24

Aries → 172.21.1.2/24

Virgo → 172.21.1.3/24

4. Melihat status STP dengan mengetik 'show spanning-tree' pada CLI setiap switch.



SW1

Physical Config CLI Attributes

IOS Command Line Interface

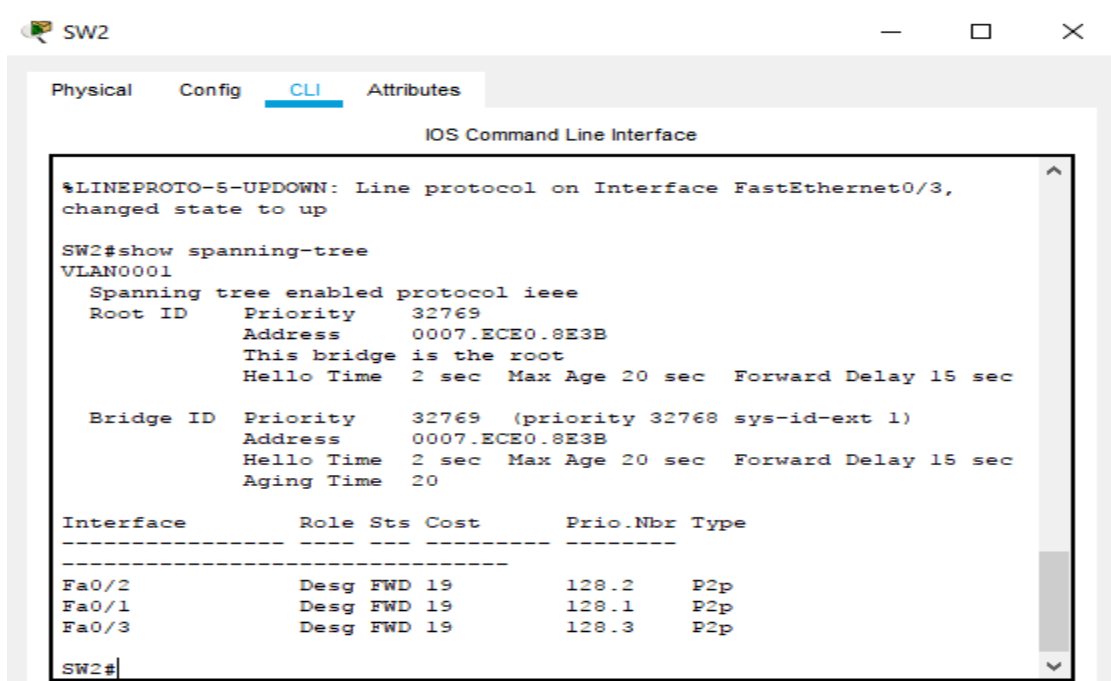
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0007.ECE0.8E3B
              Cost      19
              Port      1(FastEthernet0/1)
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec

    Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
              Address    00E0.B0A2.2A8A
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
              Aging Time 20

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

SW1#
```



SW2

Physical Config CLI Attributes

IOS Command Line Interface

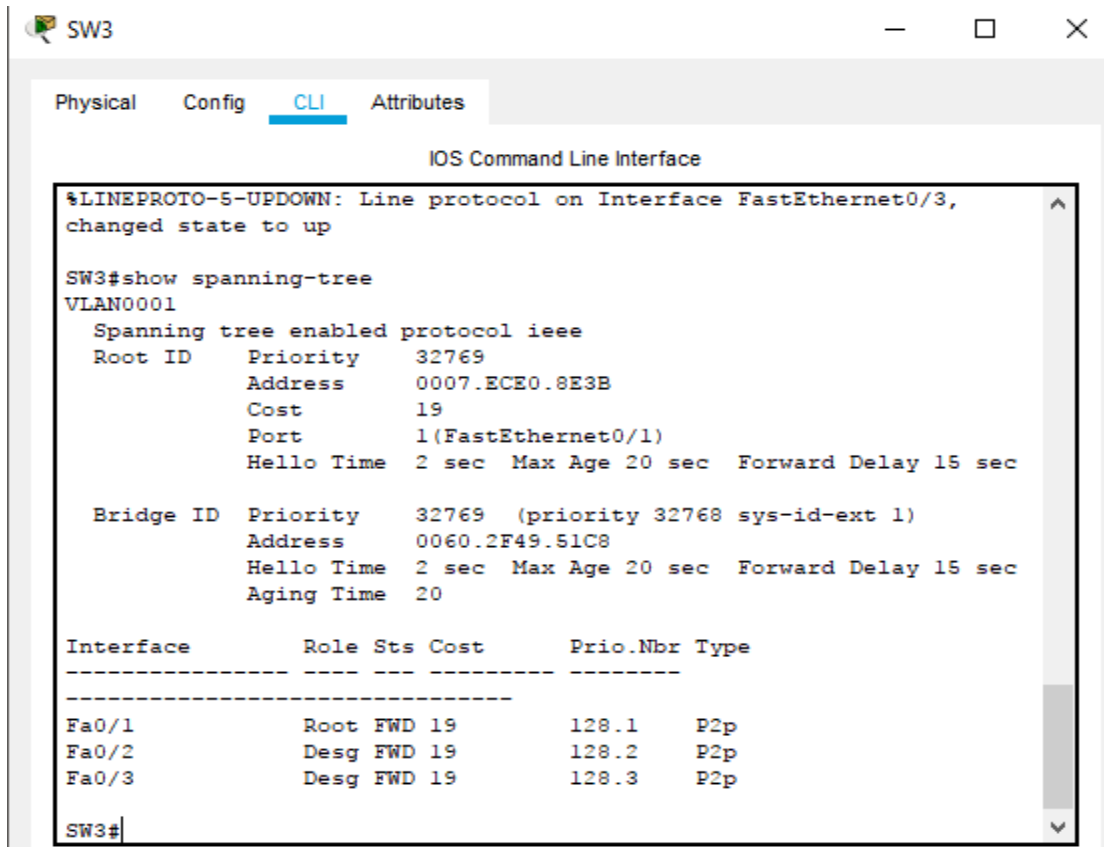
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0007.ECE0.8E3B
              This bridge is the root
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec

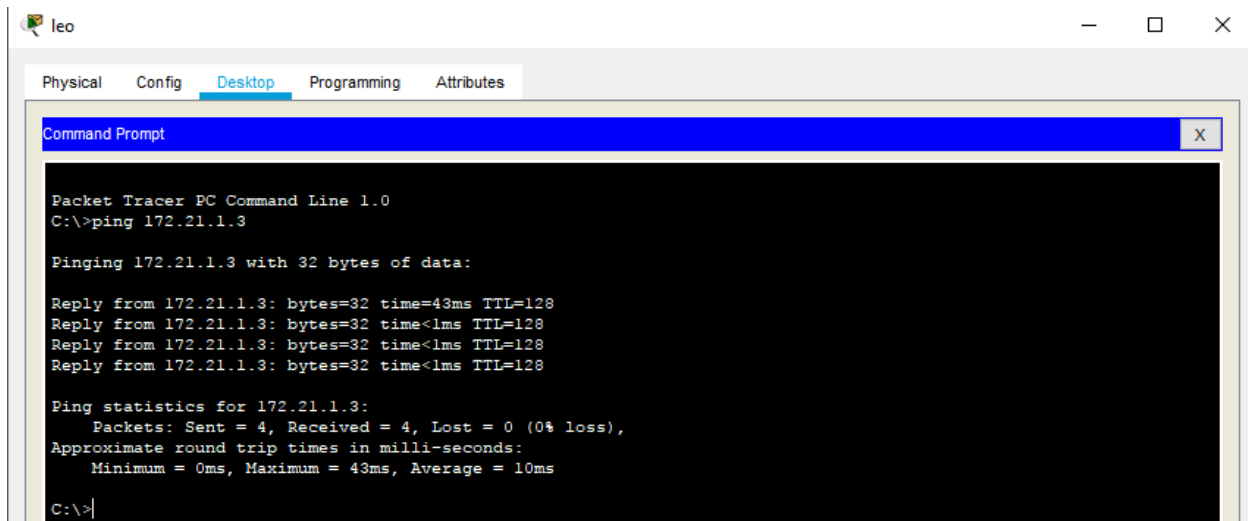
    Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
              Address    0007.ECE0.8E3B
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
              Aging Time 20

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

SW2#
```

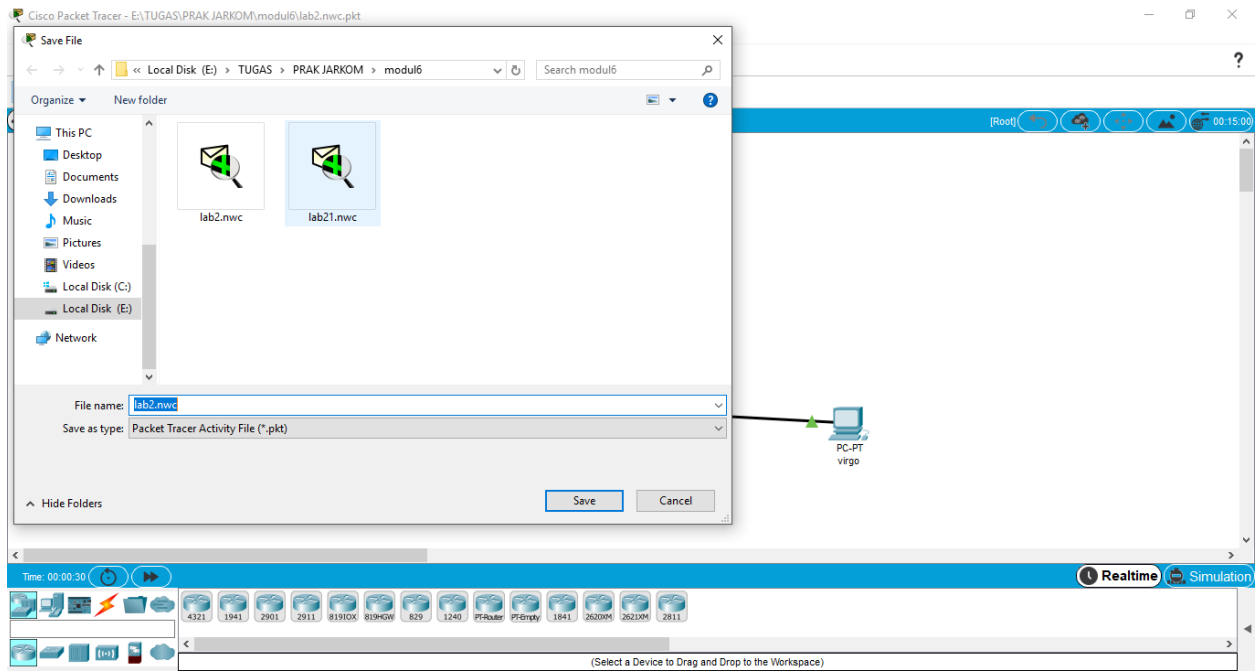


5. Melakukan ping dari PC leo ke PC virgo.



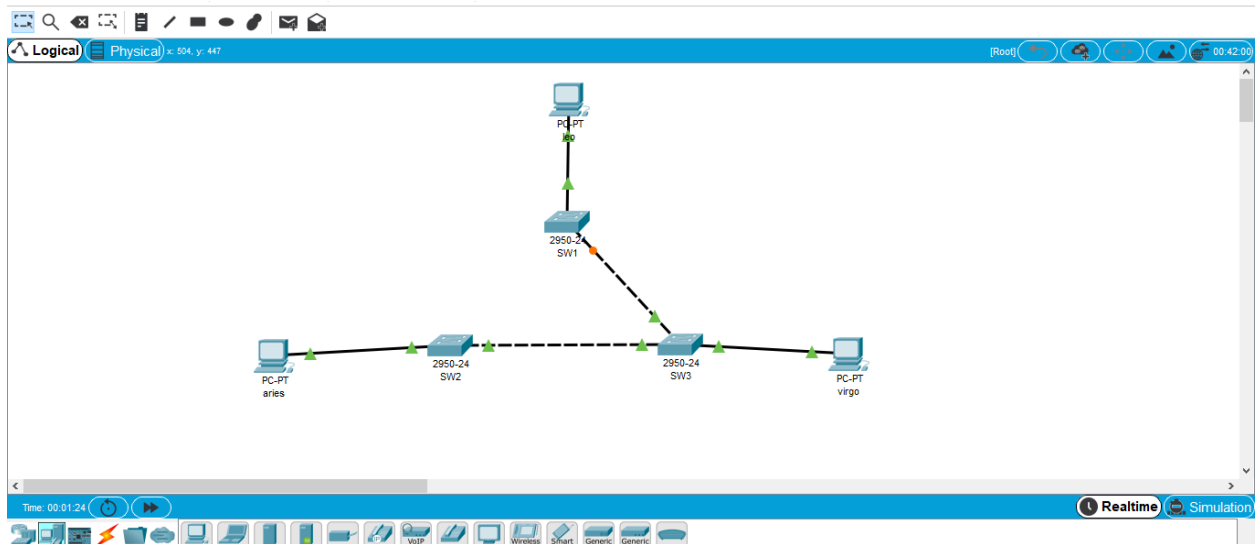
Klik PC leo → desktop → command promp, kemudian ketik perintah 'ping 172.21.1.3' untuk ping ke PC virgo.

## 6. Simpan konfigurasi jaringan dengan nama lab2.nwc



## Kegiatan 2

1. Ubah topologi sebelumnya menjadi topologi berikut.



2. Melihat STP pada masing-masing switch.

```
SW1
Physical Config CLI Attributes
IOS Command Line Interface
changed state to down

SW1>enable
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address     0007.ECE0.8E3B
            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     00E0.B0A2.2A8A
            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#
```



SW2

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to down

SW2>enable
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address     0007.ECE0.8E3B
            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     0007.ECE0.8E3B
            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
```

SW3

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     0007.ECE0.8E3B
            Cost         19
            Port         1(FastEthernet0/1)
            Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
            Address     0060.2F49.51C8
            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                    Root FWD 19          128.1    P2p
```

### 3. Melakukan ping PC leo ke PC virgo.

