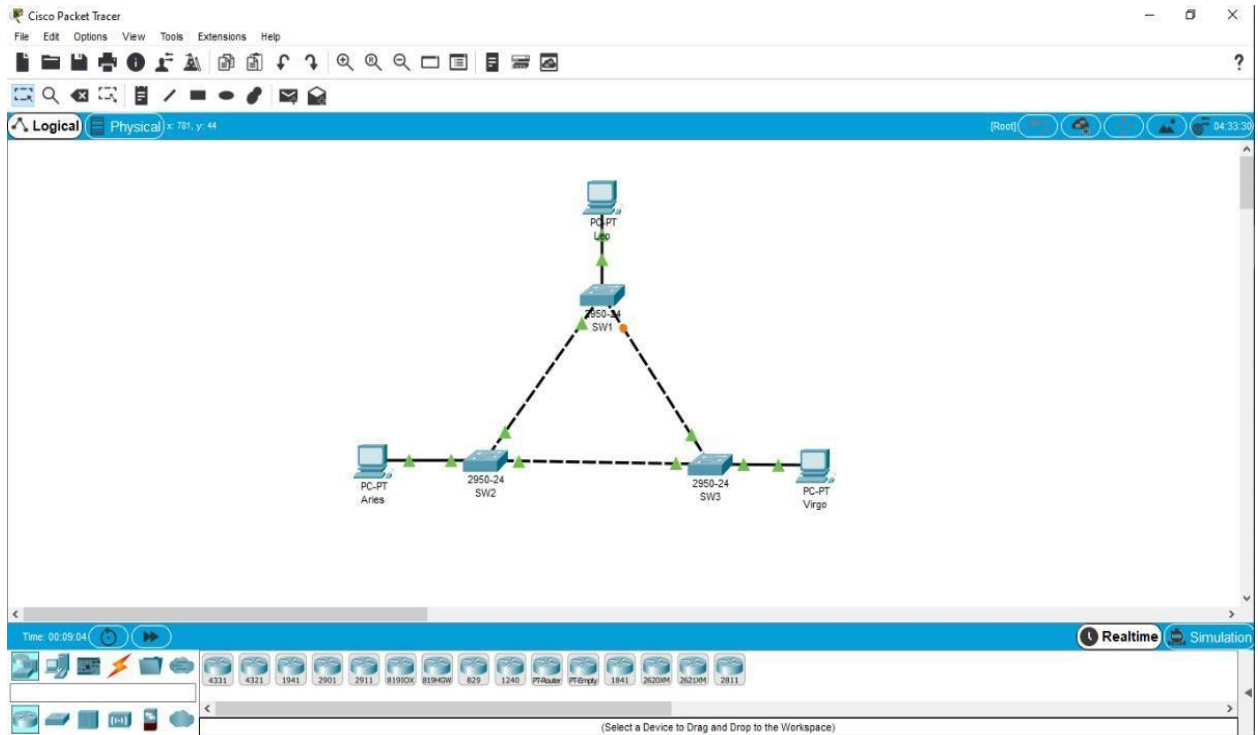


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Kelas : D

Praktikum modul 6 Jarkom

Kegiatan 1. Topologi 1

1A :



2A :

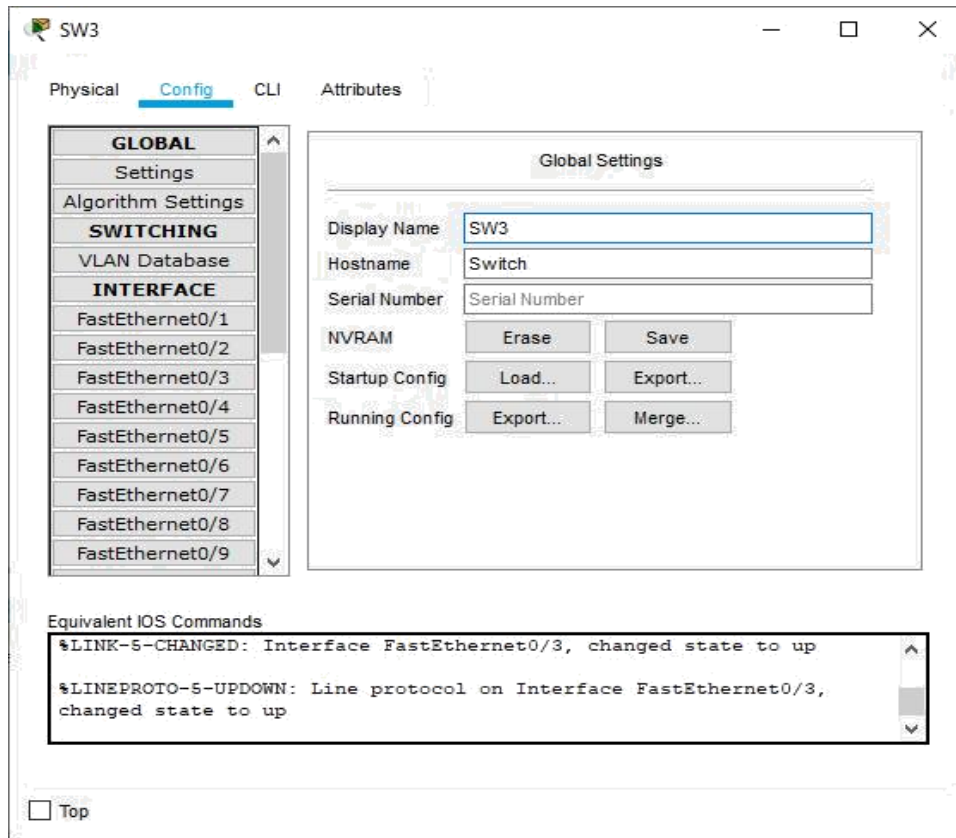
The image displays two screenshots of a network configuration interface, likely for a switch, showing the configuration of two different switches, SW1 and SW2.

SW1 Configuration:

- Physical Tab:** Shows the configuration for the physical interface.
- Config Tab:** Shows the configuration for the configuration mode.
- Attributes Tab:** Shows the configuration for the attributes.
- Global Settings:** Includes fields for Display Name (SW1), Hostname (Switch), and Serial Number (Serial Number). It also has buttons for NVRAM (Erase, Save), Startup Config (Load..., Export...), and Running Config (Export..., Merge...).
- Equivalent IOS Commands:** Shows the commands for the configuration, including `%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up` and `%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,`.

SW2 Configuration:

- Physical Tab:** Shows the configuration for the physical interface.
- Config Tab:** Shows the configuration for the configuration mode.
- Attributes Tab:** Shows the configuration for the attributes.
- Global Settings:** Includes fields for Display Name (SW2), Hostname (Switch), and Serial Number (Serial Number). It also has buttons for NVRAM (Erase, Save), Startup Config (Load..., Export...), and Running Config (Export..., Merge...).
- Equivalent IOS Commands:** Shows the commands for the configuration, including `%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up` and `%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up`.



Langkah-Langkah :

SW1

Switch>en

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname SW1

SW1(config)#end

SW2

Switch>en

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname SW2

SW2(config)#end

SW3

Switch>en

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname SW3

SW3(config)#end

Konfigurasi IP tiap PC

Leo

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.1.1

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::290:CFF:FE56:8965

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

Aries

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ 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:FEEA:C3E2

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

Virgo

Physical

Config

Desktop

Programming

Attributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IP Address172.21.1.3

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

DHCP

Auto Config

Static

IPv6 Address

Link Local AddressFE80::202:4AFF:FE3B:BCD0

IPv6 Gateway

IPv6 DNS Server

802.1X

Use 802.1X Security

Top

4A :

SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
% Invalid input detected at '^' marker.

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    000D.BD22.8A0D
            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    00D0.9755.351E
            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                    Altn BLK 19        128.3    P2p
Fa0/1                    Desg FWD 19        128.1    P2p

Switch#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

SW2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
changed state to up

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    000D.BD22.8A0D
            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    000D.BD22.8A0D
            Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
            Aging Time  20

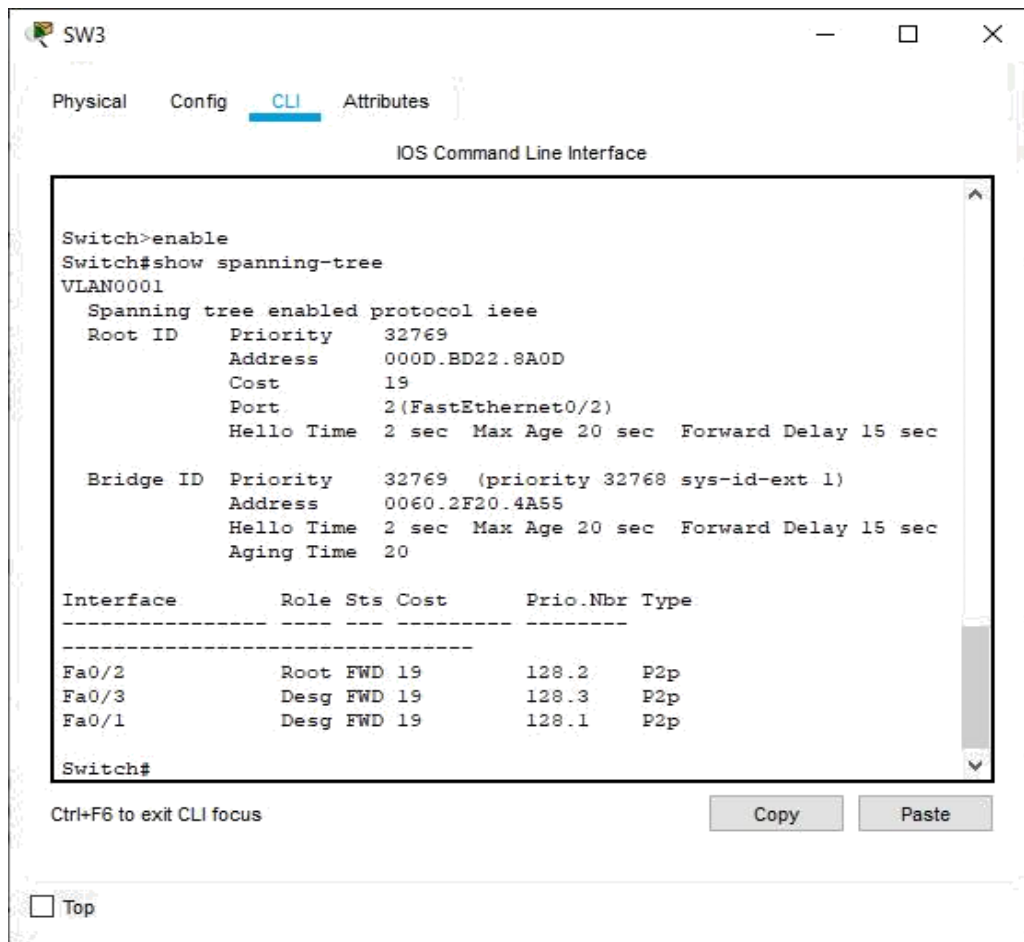
Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/1                    Desg FWD 19        128.1    P2p
Fa0/2                    Desg FWD 19        128.2    P2p
Fa0/3                    Desg FWD 19        128.3    P2p

Switch#
```

Ctrl+F6 to exit CLI focus

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☐ Top



4B :

SW1

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0001.9633.4035
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0003.E4C0.6B85
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	00E0.8F44.52D6
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

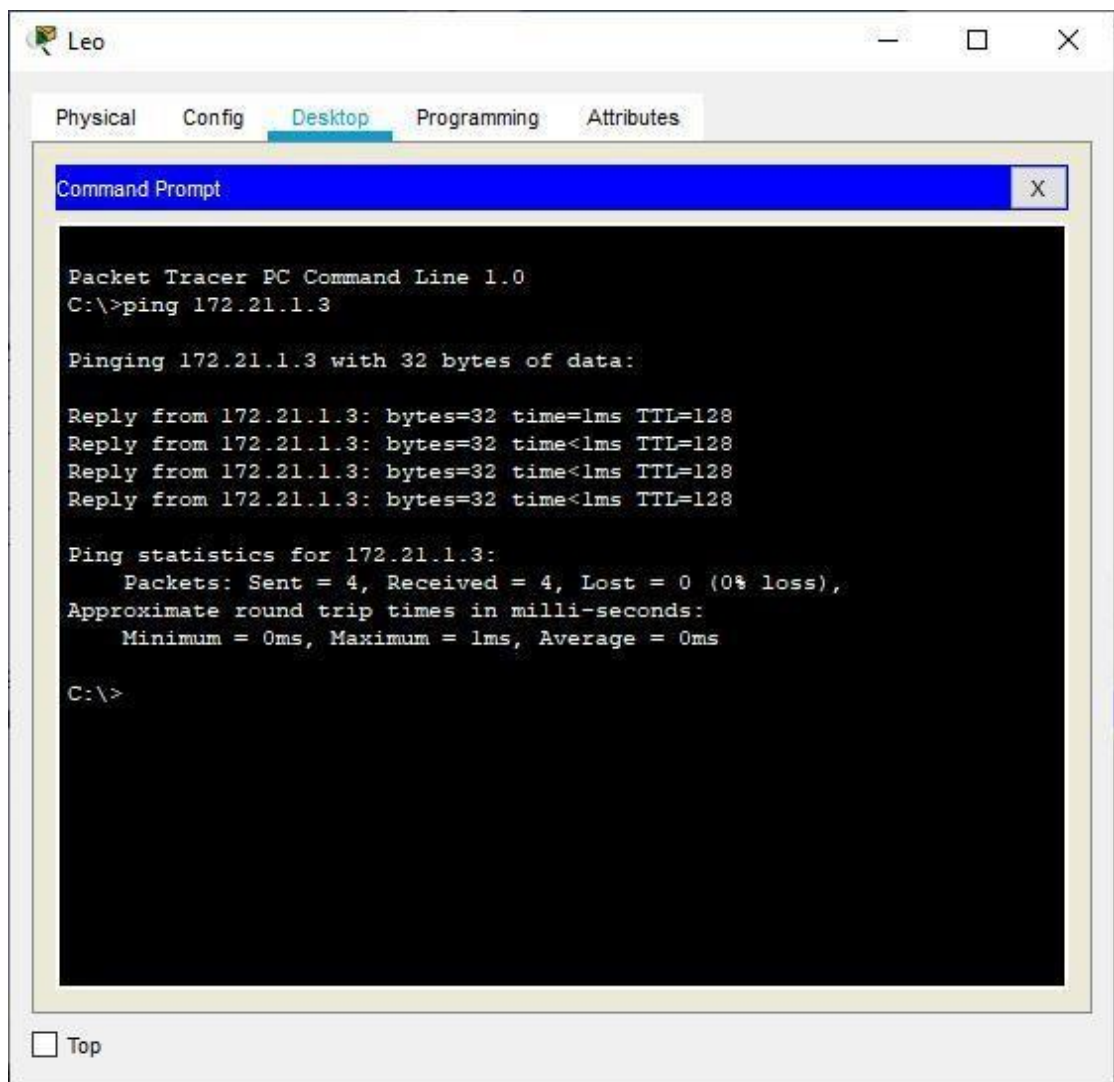
4C :

Root bridge	= Switch SW2
Designated bridge	= Switch SW1 dan Switch SW3
Root port	= 2(FastEthernet0/2)
Designated port	= 1(FastEthernet0/1) dan 3(FastEthernet0/3)

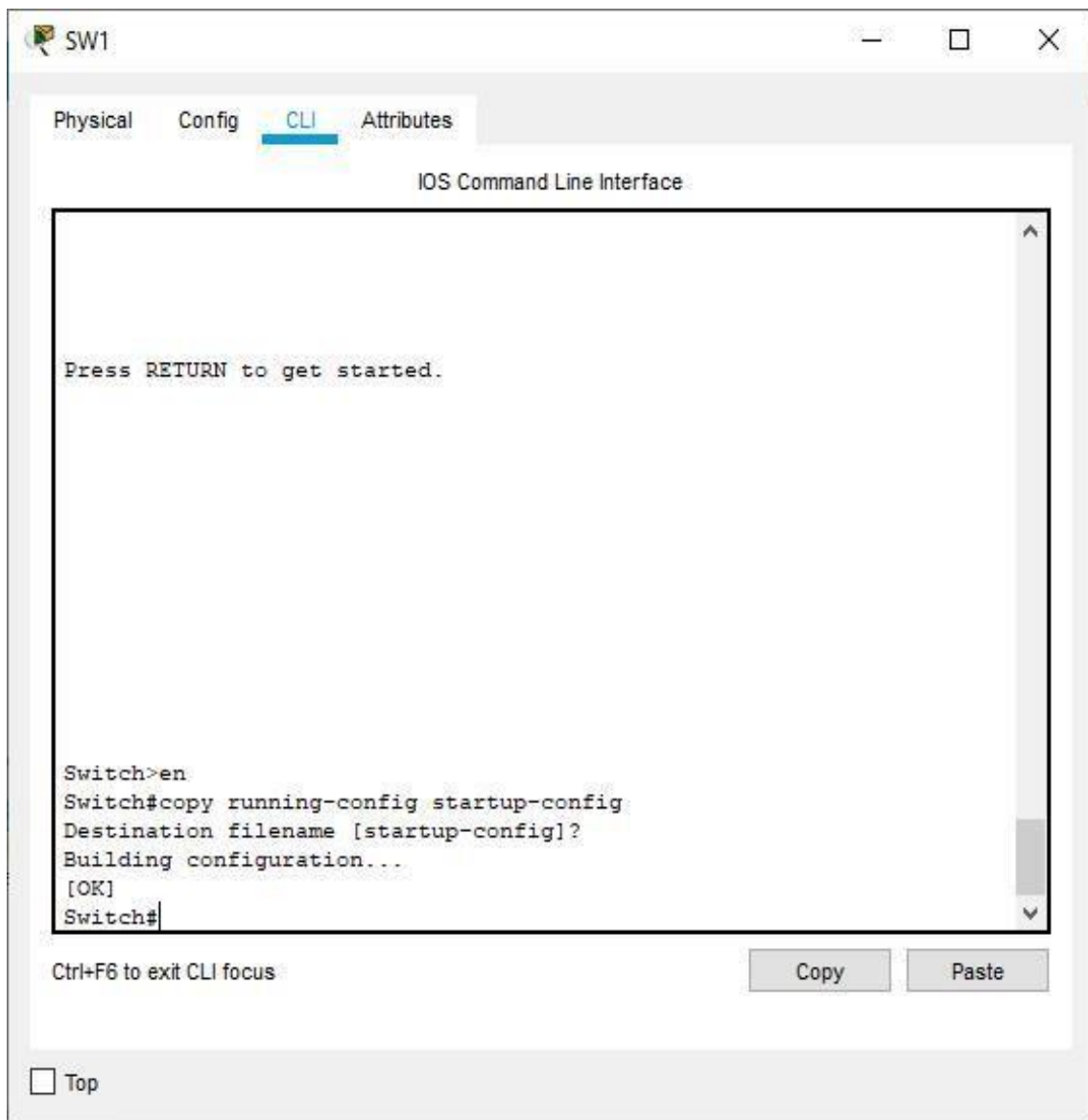
4D :

Forwarding	= 1(FastEthernet0/1) dan 2(FastEthernet0/2)
Blocking	= 3(FastEthernet0/3)

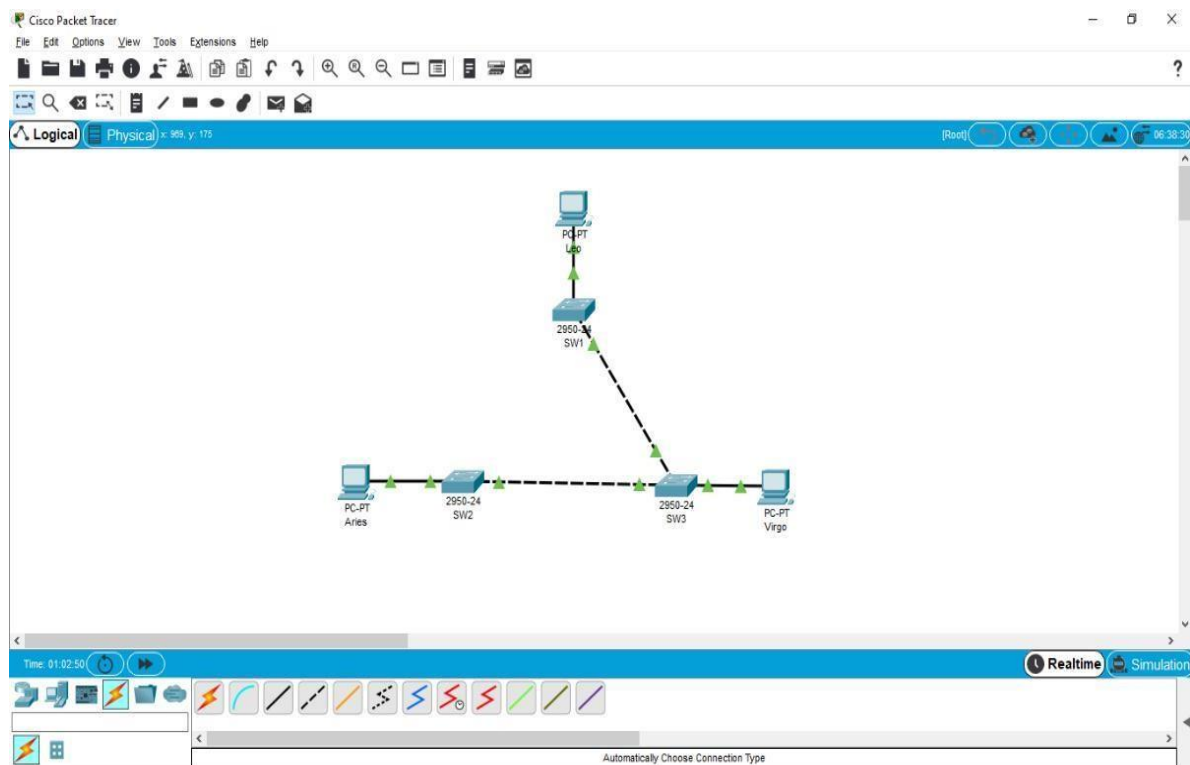
5A : klik PC Leo lalu klik tab desktop lalu pilih command prompt, masukkan ping 172.21.1.3.



6A :



Kegiatan 2. Topologi 2



SW1

Physical
 Config
 CLI
Attributes

IOS Command Line Interface

```

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to down

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000D.BD22.8A0D
             Cost        38
             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     00D0.9755.351E
             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
Switch#

```

Ctrl+F6 to exit CLI focus

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☐ Top

SW2

Physical
 Config
 CLI
Attributes

IOS Command Line Interface

```

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to down

Switch>en
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000D.BD22.8A0D
             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     000D.BD22.8A0D
             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
Fa0/3              Desg FWD 19        128.3    P2p
Switch#

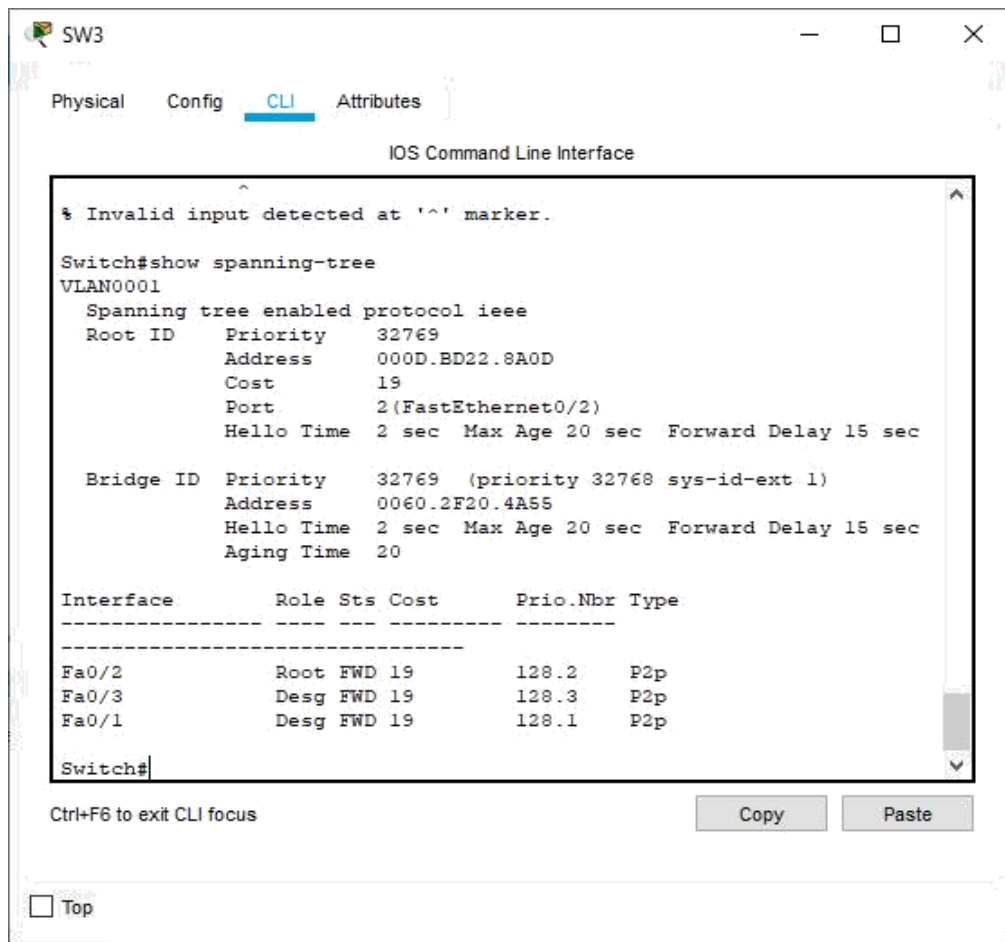
```

Ctrl+F6 to exit CLI focus

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☐ Top



SW1

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0001.9633.4035
4	Bridge ID	
5	Cost(0/2;0/3)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0003.E4C0.6B85
4	Bridge ID	
5	Cost(0/2;0/3)	19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	00E0.8F44.52D6
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Root bridge = Switch SW2
Designated bridge = Switch SW1 dan Switch SW3
Root port = SW1: Fa0/3, SW3: Fa0/2
Designated port = SW1: Fa0/1, SW2 & SW3: Fa0/1, Fa0/3

Forwarding = 1(FastEthernet0/1), 2(FastEthernet0/2), 3(FastEthernet0/3)
Blocking = -

