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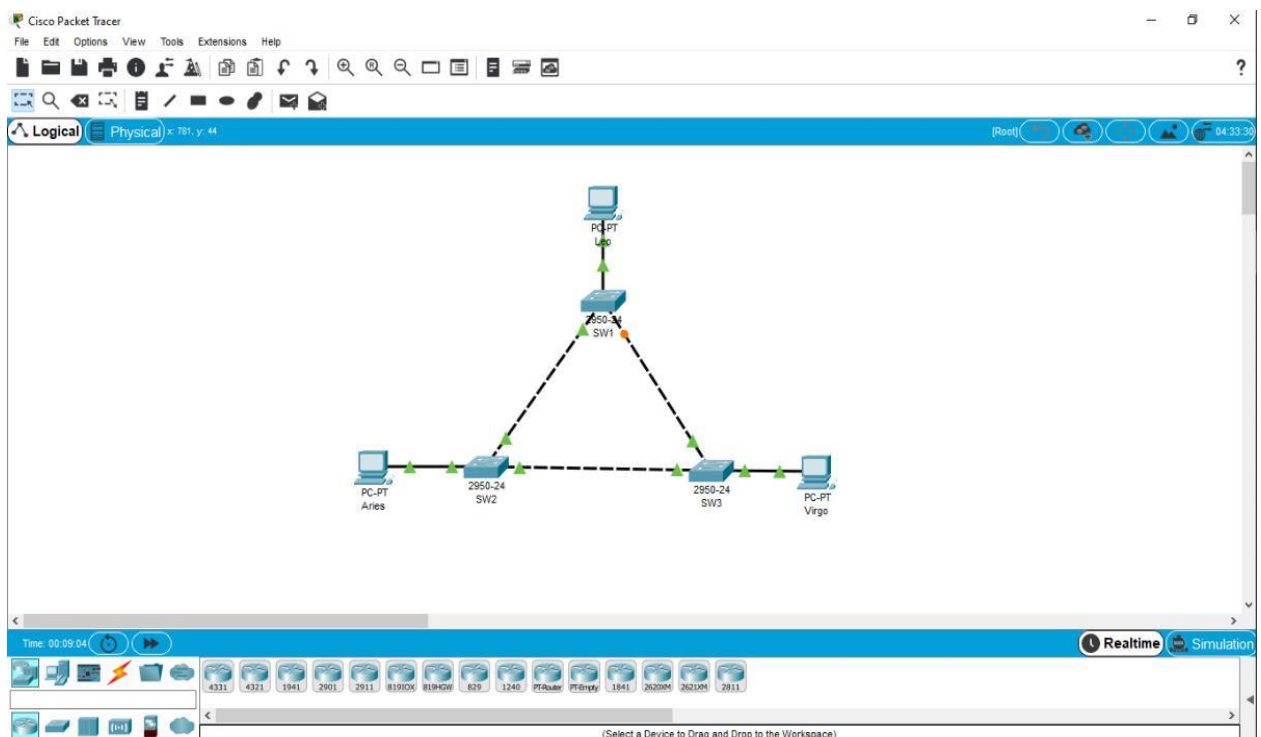
NIM : L200180155

Kelas : D

PRAKTIKUM JARINGAN KOMPUTER MODUL 6

Kegiatan 1. Topologi 1

1A :



2A :

SW1

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/1

FastEthernet0/2

FastEthernet0/3

FastEthernet0/4

FastEthernet0/5

FastEthernet0/6

FastEthernet0/7

FastEthernet0/8

FastEthernet0/9

Global Settings

Display NameSW1

HostnameSwitch

Serial NumberSerial Number

NVRAM

EraseSave

Startup Config

Load...Export...

Running Config

Export...Merge...

Equivalent IOS Commands

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

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

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SW2

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/1

FastEthernet0/2

FastEthernet0/3

FastEthernet0/4

FastEthernet0/5

FastEthernet0/6

FastEthernet0/7

FastEthernet0/8

FastEthernet0/9

Global Settings

Display NameSW2

HostnameSwitch

Serial NumberSerial Number

NVRAM

EraseSave

Startup Config

Load...Export...

Running Config

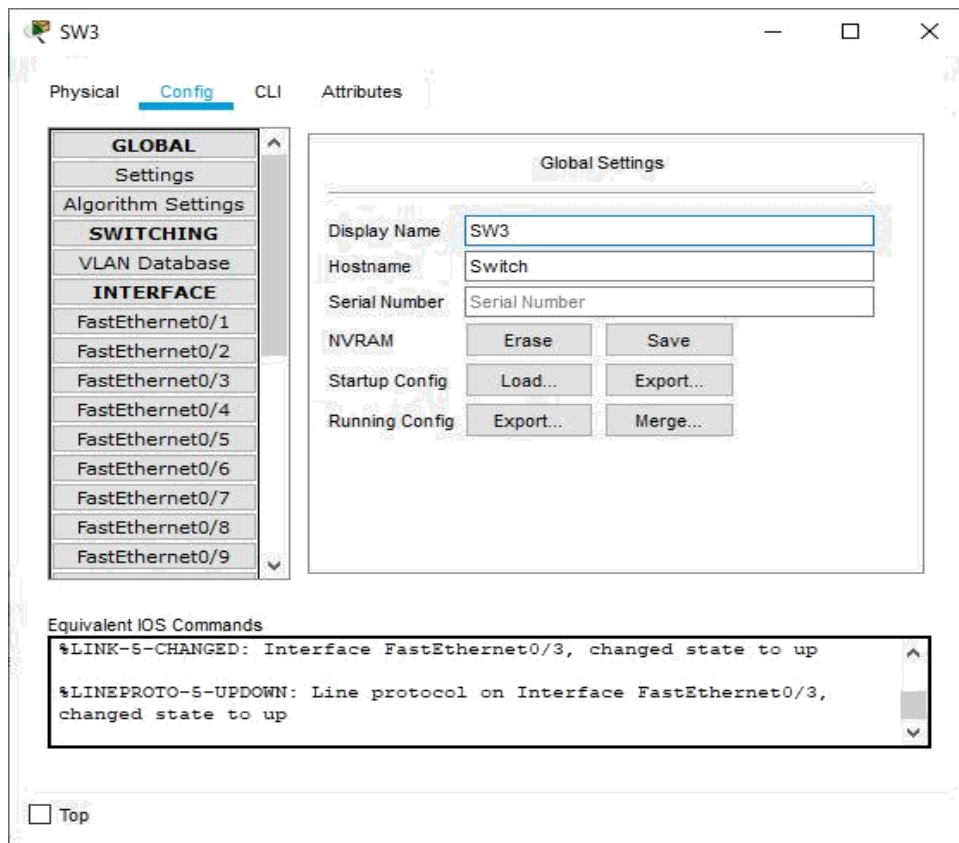
Export...Merge...

Equivalent IOS Commands

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

%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up

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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

The image displays two screenshots of the IP Configuration window for two different PCs, Leo and Aries, in a network simulator. Both windows show the 'Desktop' tab selected, with the 'Interface' set to 'FastEthernet0'.

Leo's IP Configuration:

- 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: (empty)
 - Link Local Address: FE80::290:CFF:FE56:8965
 - IPv6 Gateway: (empty)
 - IPv6 DNS Server: (empty)
- 802.1X:**
 - ☐ Use 802.1X Security

☐ Top

Aries's IP Configuration:

- 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: (empty)
 - Link Local Address: FE80::230:A3FF:FEEA:C3E2
 - IPv6 Gateway: (empty)
 - IPv6 DNS Server: (empty)
- 802.1X:**
 - ☐ Use 802.1X Security

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Virgo

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

▼

IP Configuration

☐ 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::202:4AFF:FE3B:BCD0

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

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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

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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

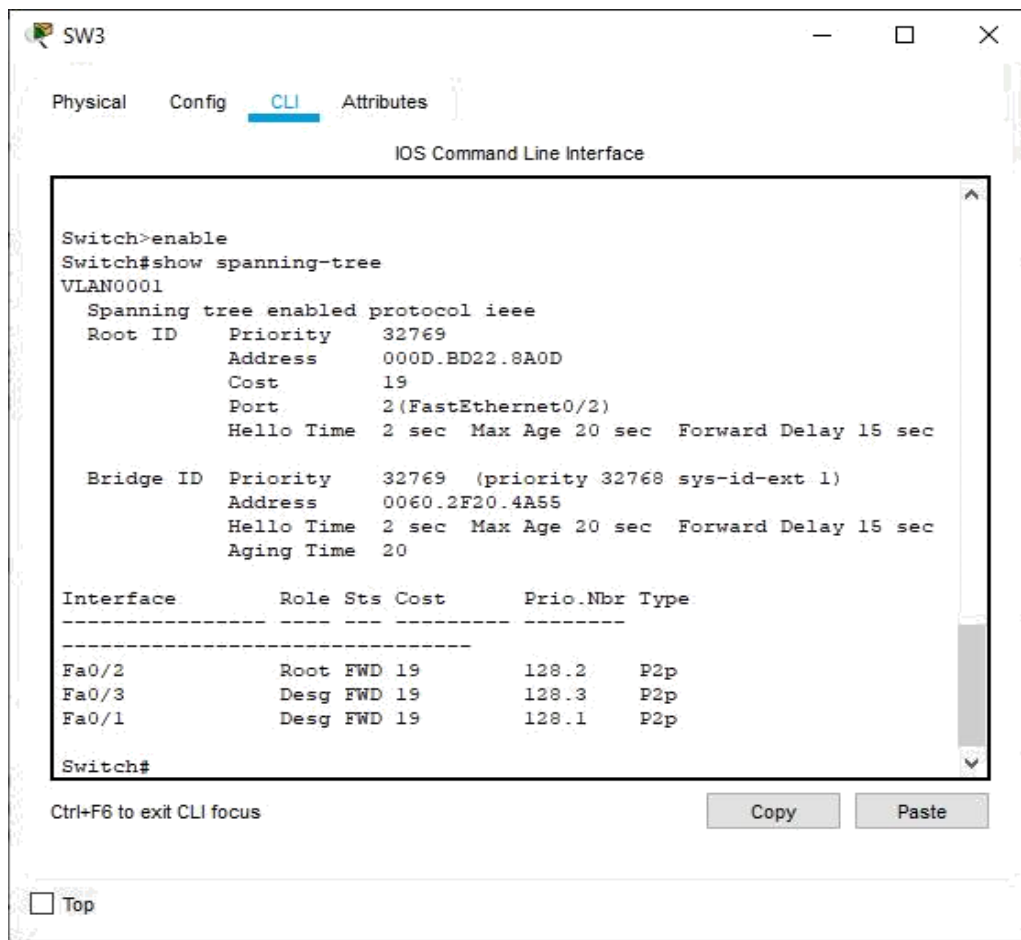
Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/1                    Desg FWD 19        128.1    P2p
Fa0/2                    Desg FWD 19        128.2    P2p
Fa0/3                    Desg FWD 19        128.3    P2p

Switch#
```

Ctrl+F6 to exit CLI focus

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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

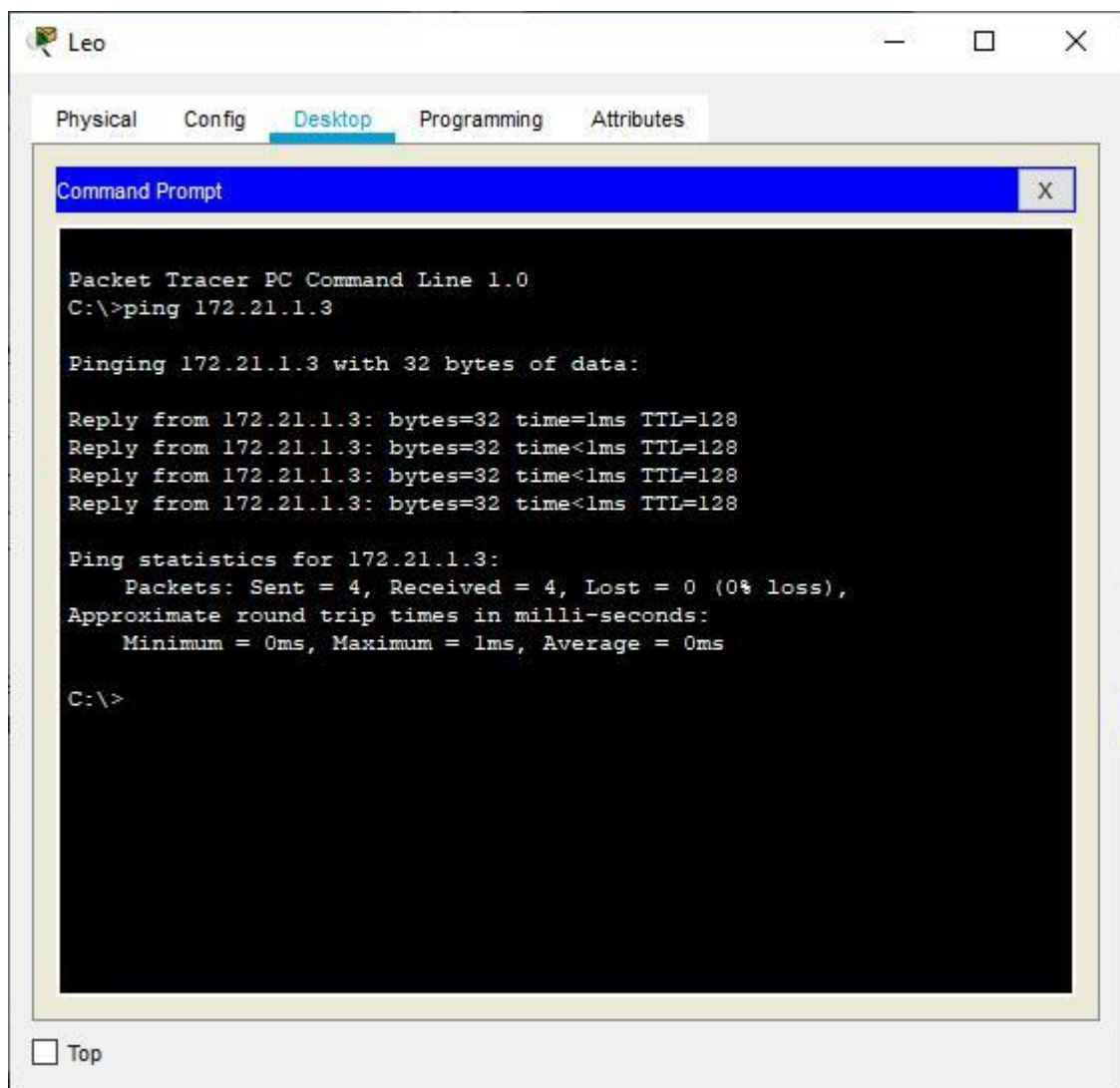
4C :

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)

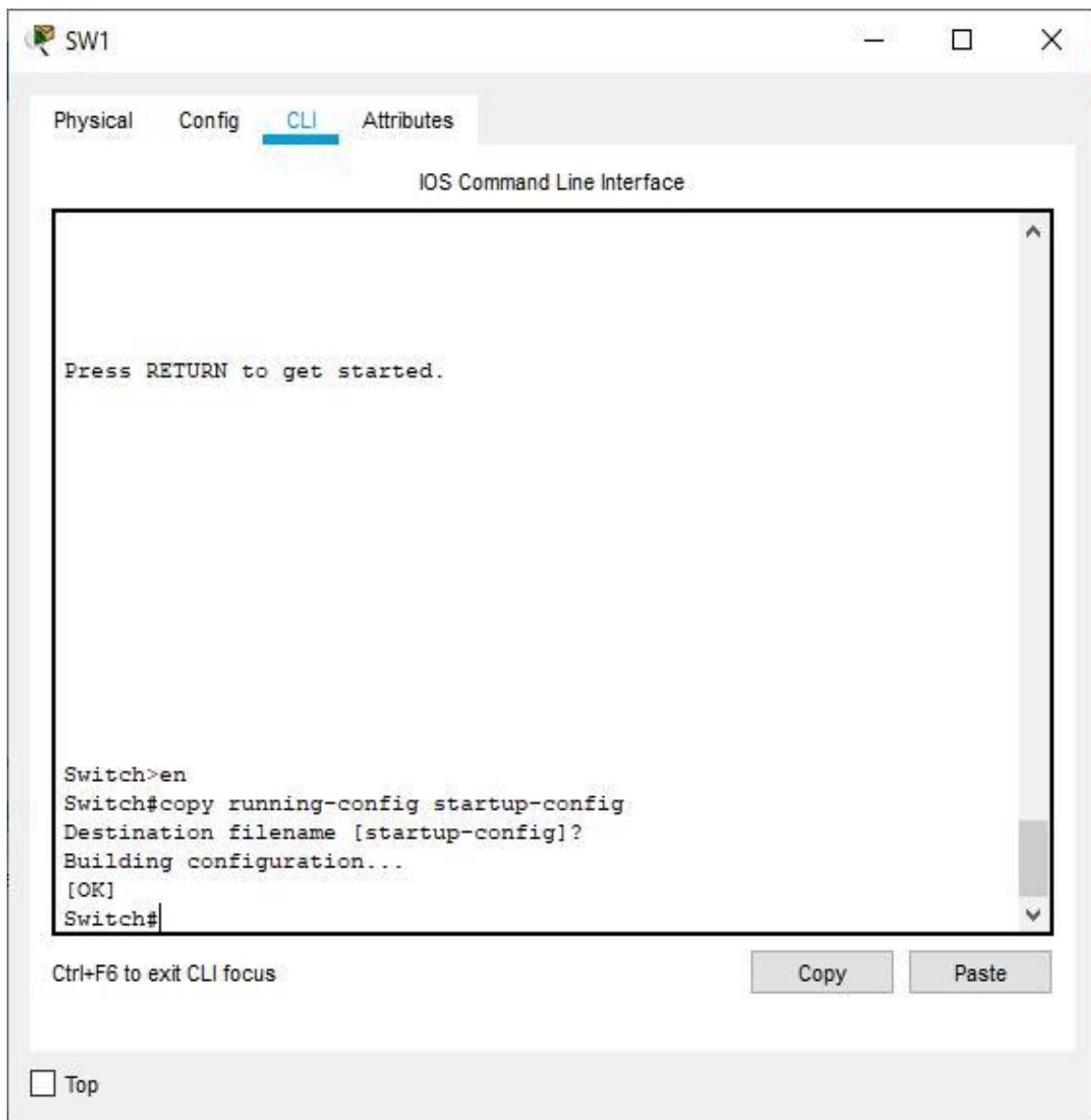
4D :

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

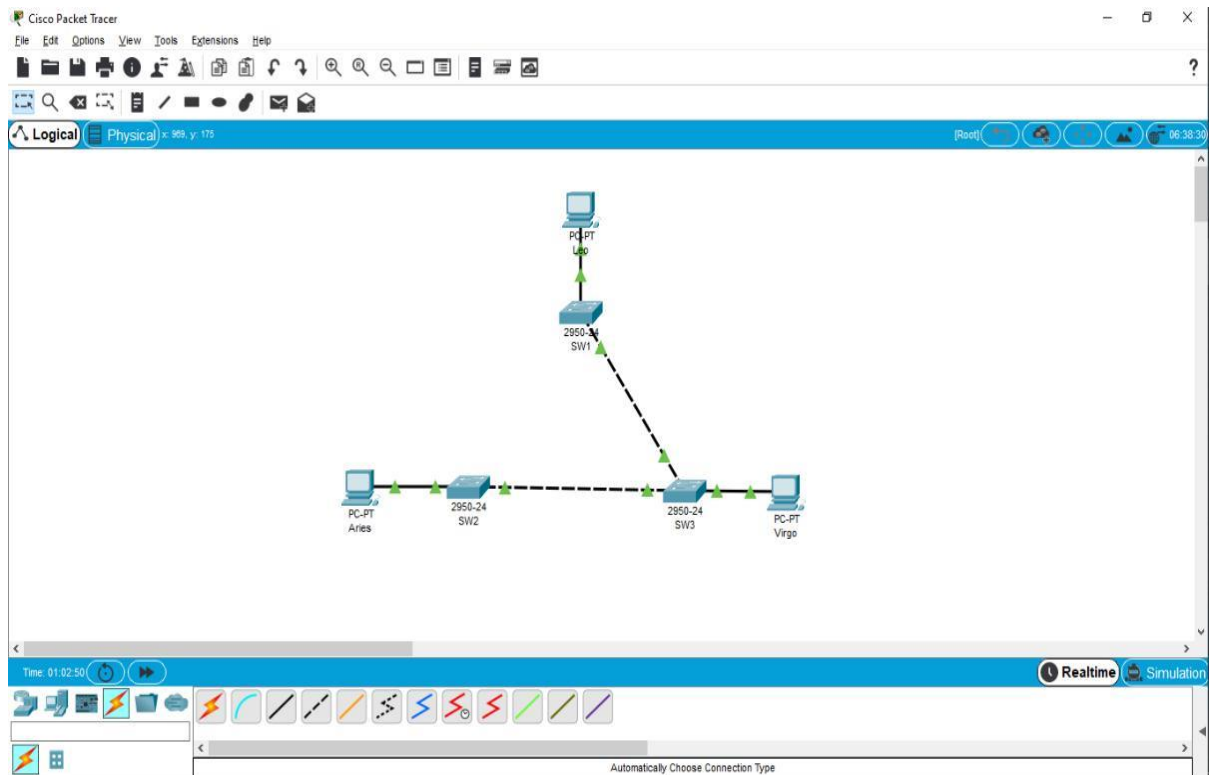
5A : klik PC Leo lalu klik tab desktop lalu pilih command prompt, masukkan ping 172.21.1.3.



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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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

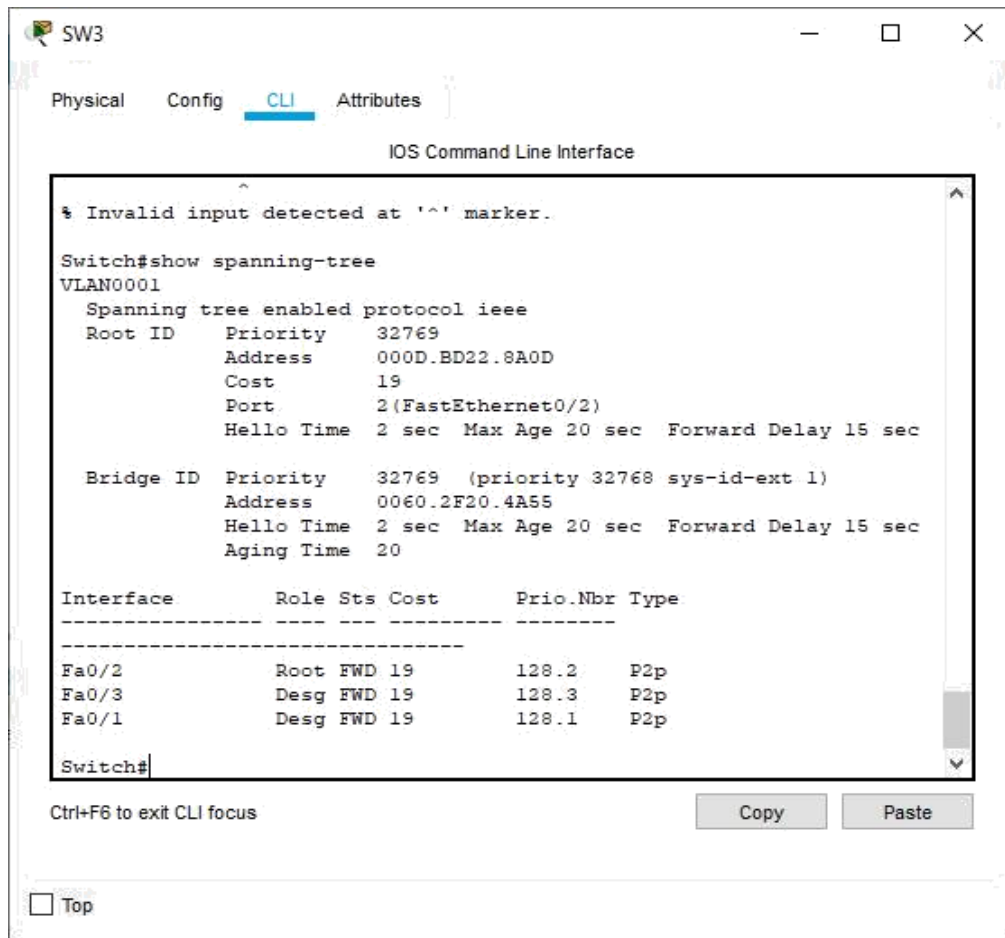
Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/1                    Desg FWD 19        128.1    P2p
Fa0/3                    Desg FWD 19        128.3    P2p

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 = -

