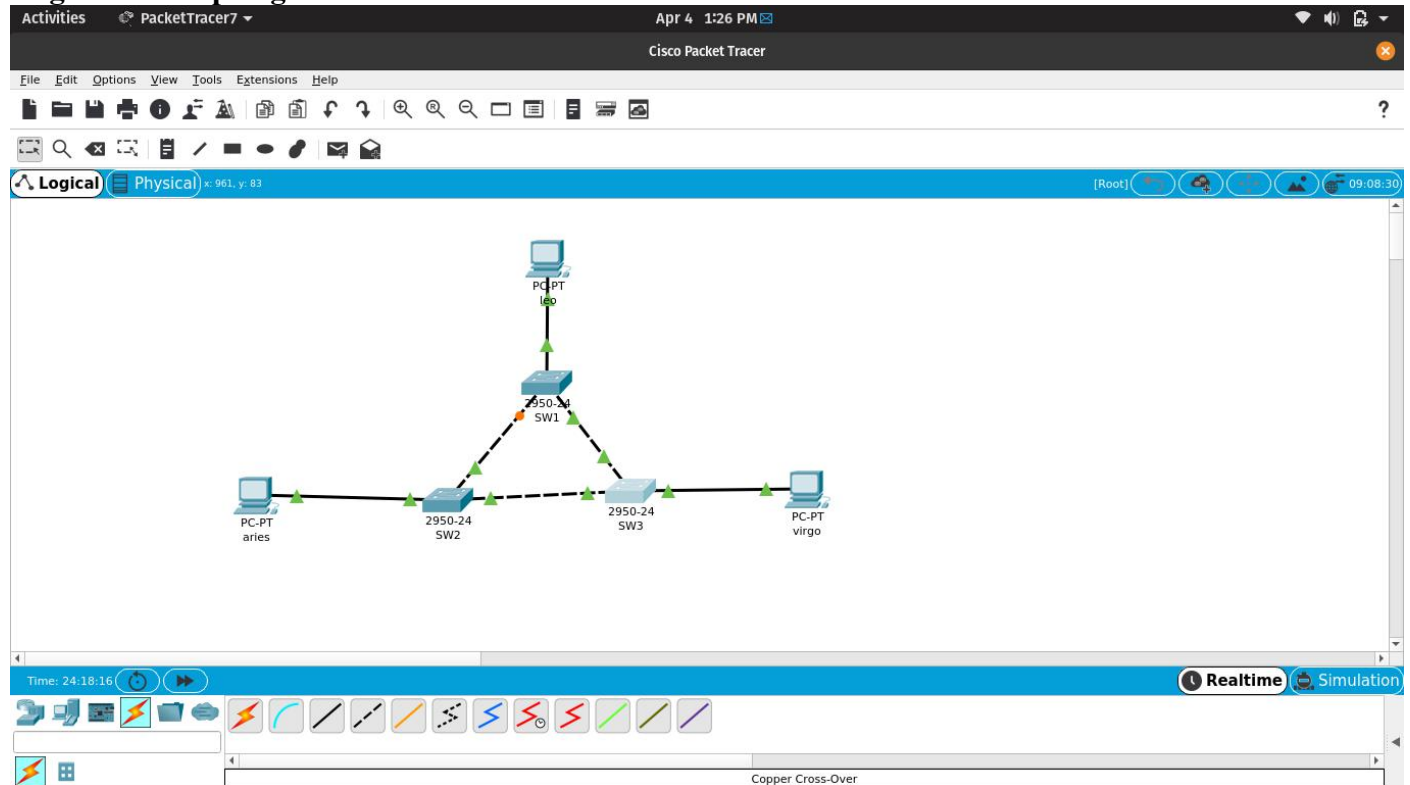


Nama : Arga Dwi Ardinata  
NIM : L200180114  
Kelas : C

## Kegiatan 1. Topologi 1



### Tugas 1A:

Buat topologi dengan menggunakan switch Catalyst 2950. Kemudian beri nama masing-masing switch dengan SW1, SW2, dan SW3.

### Tugas 2A:

#### SW1

Switch>en

Swicth#conf t

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

Swicth(config)#hostname SW1

SW1(config)#end

#### SW2

Switch>en

Swicth#conf t

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

Swicth(config)#hostname SW2

SW2(config)#end

#### SW3

Switch>en

Swicth#conf t

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

Swicth(config)#hostname SW3

SW3(config)#end

# Tugas 4A

## SW1

Activities

PacketTracer7

Apr 4 2:28 PM

SW1

Physical

Config

CLI

Attributes

IOS Command Line Interface

Press RETURN to get started.

SW1>show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 0009.7C8D.7533

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.F790.B021

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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## SW2

Activities

PacketTracer7

Apr 4 2:29 PM

SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

Press RETURN to get started.

SW2>en

SW2#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 0009.7C8D.7533

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 0060.2FEE.ED13

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

Fa0/3 Desg FWD 19 128.3 P2p

SW2#

Ctrl+F6 to exit CLI focus

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## SW3

Activities PacketTracer7 Apr 4 2:29 PM SW3

Physical Config CLI Attributes

IOS Command Line Interface

Press RETURN to get started.

```
SW3>en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0009.7C8D.7533
             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     0009.7C8D.7533
             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

SW3#
```

Ctrl+F6 to exit CLI focus

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## Tugas 4B

### SW1

No	Variabel	Nilai
1	Root ID	009.7C8D.7533
2	Priority	32769
3	MAC Address	00E0.F790.B021
4	Bridge ID	00E0.F790.B021
5	Cost (0/3;0/1;0/2)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

### SW2

No	Variabel	Nilai
1	Root ID	009.7C8D.7533
2	Priority	32769
3	MAC Address	0060.2FEE.ED13
4	Bridge ID	0060.2FEE.ED13
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	009.7C8D.7533
2	Priority	32769
3	MAC Address	009.7C8D.7533
4	Bridge ID	009.7C8D.7533
5	Cost (0/2;0/3;0/1)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

### Tugas 4C

root bridge: **SW3**

designated bridge: **SW2**

root port: **SW2(Fa0/2), SW3(Fa0/2)**

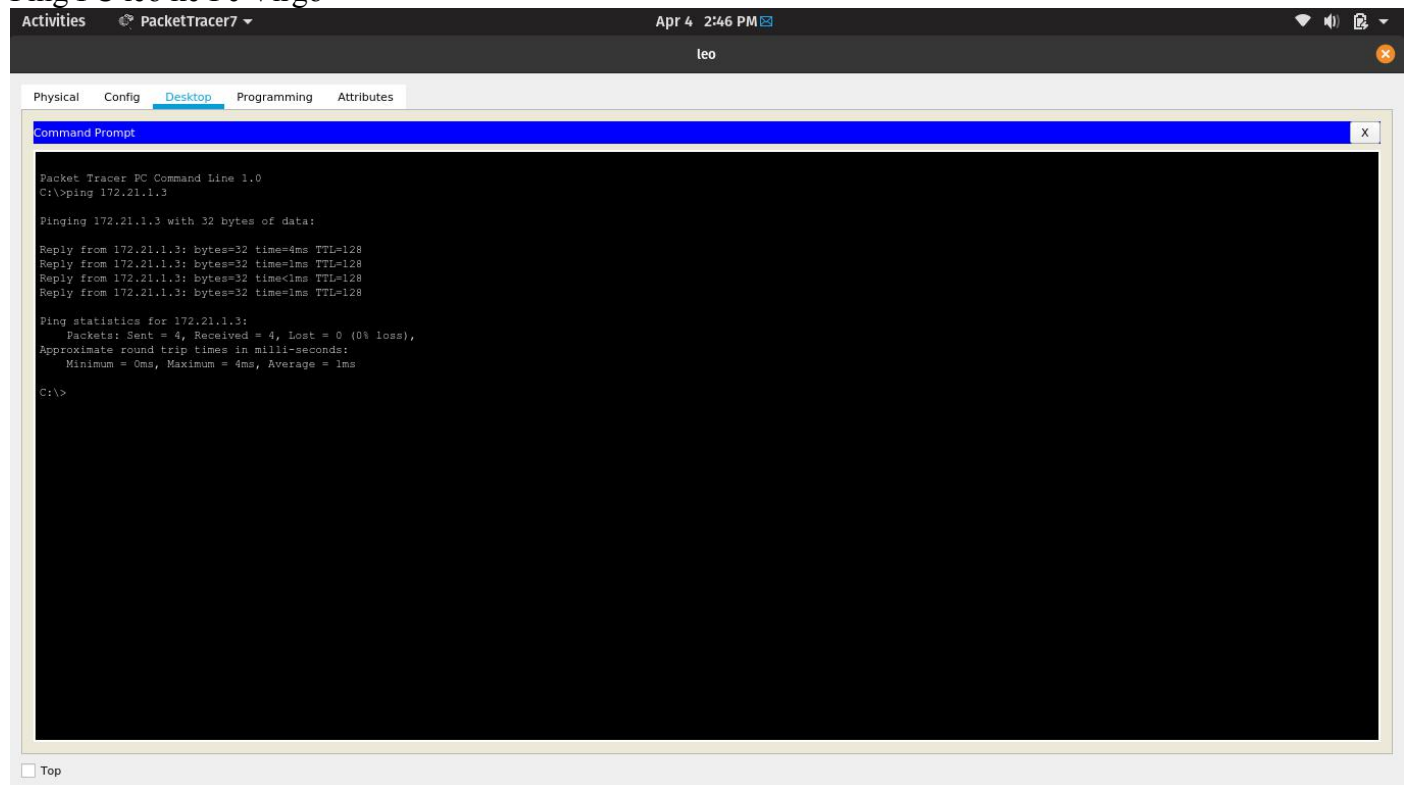
designet port: **SW3(Fa0/1;Fa2;Fa3), SW2(Fa1; Fa3), SW(Fa3)**

### Tugas 4D

Forwarding: **SW3(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/1;Fa0/2;Fa0/3), SW1(Fa0/2;Fa0/3)**

Blocking: **SW1(Fa0/1)**

Ping PC leo ke Pc Virgo



### Tugas 5A

Masuk ke PC > Desktop > Command Prompt

Ketik “ping 172.21.1.3”

### Tugas 6A

Lakukan pada setiap switch:

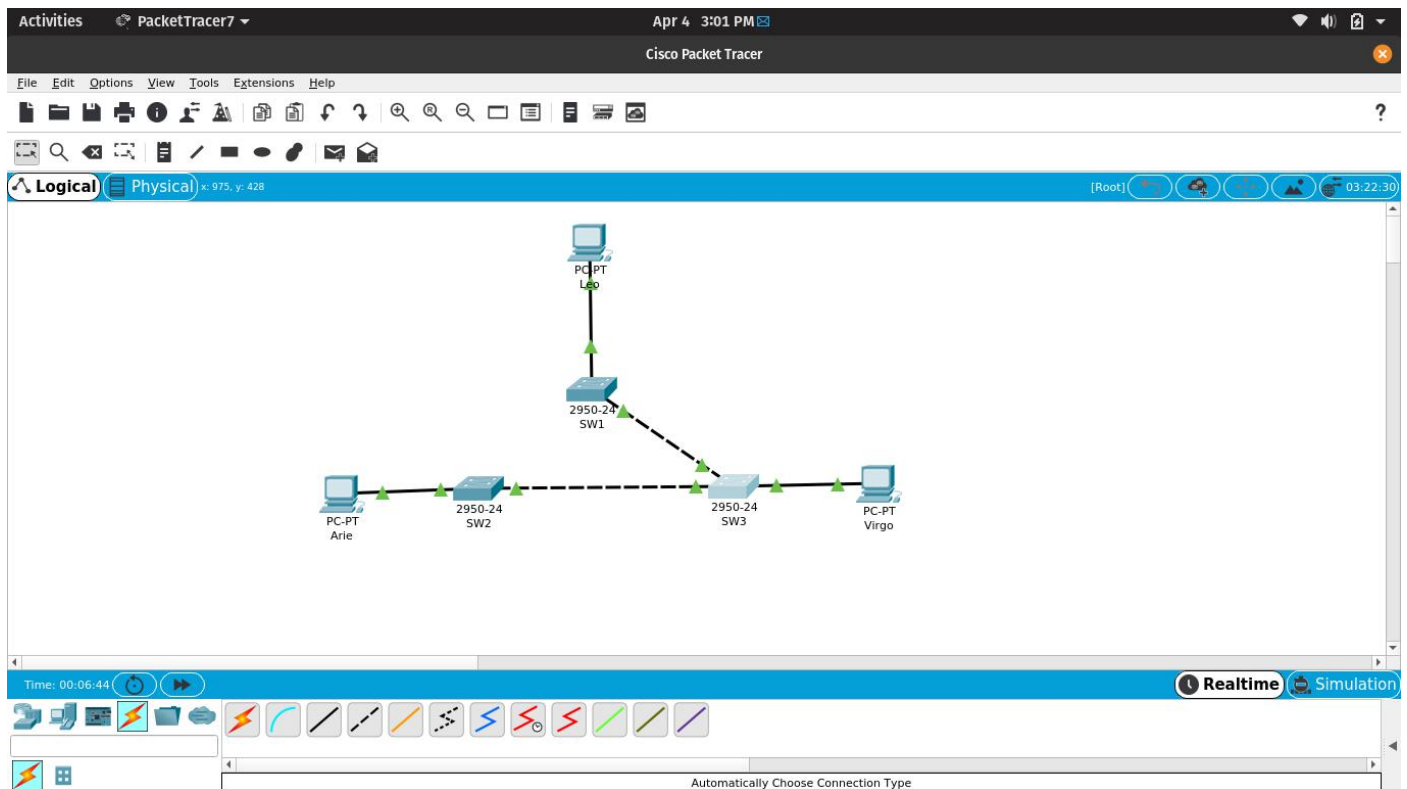
*SW1>en*

*SW1#write*

*Building configuration...*

*[OK]*

## Kegiatan 2. Topologi 2



## Tugas 9A SW1

```
Activities PacketTracer7 Apr 4 3:00 PM SW1

Physical Config CLI Attributes

IOS Command Line Interface

Press RETURN to get started.

SW1>en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address    0003.E401.334D
             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    0090.0C92.4657
             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 Desg FWD 19 128.2 P2p

SW1#
```

Ctrl+F6 to exit CLI focus

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## SW2

Activities

PacketTracer7

Apr 4 3:01 PM

SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

Press RETURN to get started.

SW2>en  
SW2#show spanning-tree  
VLAN0001  
Spanning tree enabled protocol ieee  
Root ID Priority 32769  
Address 0003.E401.334D  
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 0009.7CD2.CE4A  
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 Root FWD 19 128.1 P2p  
  
SW2#

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## SW3

Activities

PacketTracer7

Apr 4 3:01 PM

SW3

Physical

Config

CLI

Attributes

IOS Command Line Interface

Press RETURN to get started.

SW3>en  
SW3#show spanning-tree  
VLAN0001  
Spanning tree enabled protocol ieee  
Root ID Priority 32769  
Address 0003.E401.334D  
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 0003.E401.334D  
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  
  
SW3#

Ctrl+F6 to exit CLI focus

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**SW1**

No	Variabel	Nilai
1	Root ID	0003.E401.334D
2	Priority	32769
3	MAC Address	0090.0C92.4657
4	Bridge ID	0090.0C92.4657
5	Cost (0/1;0/2)	19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

**SW2**

No	Variabel	Nilai
1	Root ID	0003.E401.334D
2	Priority	32769
3	MAC Address	009.7CD2.CE4A
4	Bridge ID	009.7CD2.CE4A
5	Cost (0/2;0/1)	19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

**SW3**

No	Variabel	Nilai
1	Root ID	0003.E401.334D
2	Priority	32769
3	MAC Address	0003.E401.334D
4	Bridge ID	0003.E401.334D
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 : SW3****Designated brige : SW1****Root port : SW2(Fa0/1), SW1(Fa0/1)****Designated port : SW(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/2), SW1(Fa0/2;Fa0/1)****Forwarding: SW1(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/1;Fa/02;Fa0/3), SW3(Fa0/1;Fa0/2;Fa0/3)****Blocking: None**