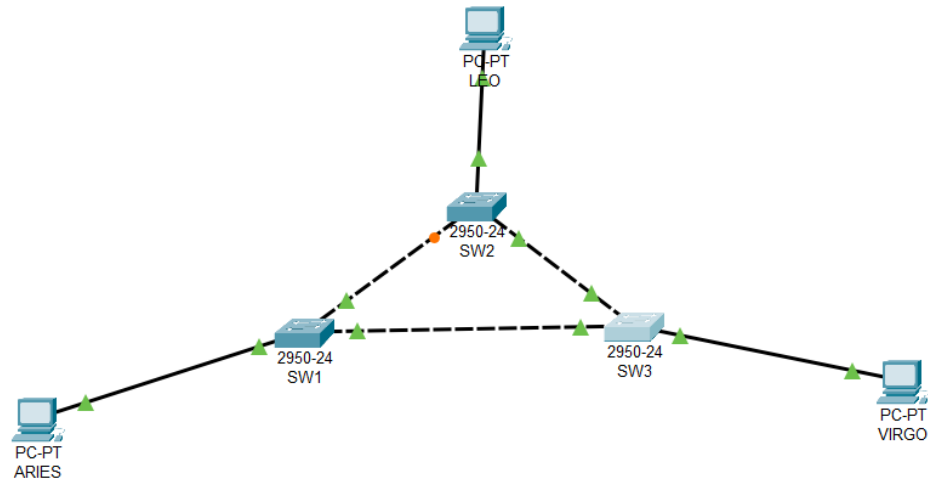


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## 1. Kegiatan 1 . Topologi 1



Tugas 1A :

Memberi nama masing SWITCH menjadi SW1 SW2 SW3

Tugas 2A:

### - SW 1

```
Switch>en
```

```
Switch#conf t
```

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

```
Switch(config)#hostname SW1
```

```
SW1(config)#end
```

```
SW1#
```

### - SW 2

```
Switch>en
```

```
Switch#conf t
```

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

```
Switch(config)#hostname SW2
```

```
SW2(config)#end
```

```
SW2#
```

- **SW 3**

Switch>en

Switch#conf t

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

Switch(config)#hostname SW3

SW3(config)#end

SW3#

**Tugas 4A**

SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
SW1>en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address     0001.4378.2DD8
            Cost        19
            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     0090.2147.96A4
            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          Root FWD 19        128.3    P2p
Fa0/1          Desg FWD 19        128.1    P2p
```

Ctrl+F6 to exit CLI focus

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SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

SW2>en

SW2#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID      Priority      32769

Address      0001.4378.2DD8

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.A374.73DA

Hello Time   2 sec    Max Age 20 sec   Forward Delay 15

sec

Aging Time   20

| Interface | Role | Sts | Cost | Prio.Nbr | Type |
|-----------|------|-----|------|----------|------|
| Fa0/1     | Altn | BLK | 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
 —
□
×

Physical
Config
**CLI**
Attributes

IOS Command Line Interface

```

SW3>en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID      Priority    32769
              Address     0001.4378.2DD8
              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     0001.4378.2DD8
              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
Fa0/2          Desg FWD 19        128.2    P2p
Fa0/1          Desg FWD 19        128.1    P2p

```

SW3#

Ctrl+F6 to exit CLI focus

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## SW 1

| NO | Variabel          | Nilai          |
|----|-------------------|----------------|
| 1  | Root ID           | 0001.4378.2DD8 |
| 2  | Priority          | 32769          |
| 3  | MAC Adress        | 0001.4378.2DD8 |
| 4  | Bridge ID         | 0090.2147.96A4 |
| 5  | Cost(0/1;0/2;0/3) | 19/19/19       |
| 6  | Hello Time        | 2 sec          |
| 7  | Max Age           | 20 sec         |
| 8  | Forward Delay     | 15 sec         |

## SW 2

| NO | Variabel          | Nilai          |
|----|-------------------|----------------|
| 1  | Root ID           | 0001.4378.2DD8 |
| 2  | Priority          | 32769          |
| 3  | MAC Adress        | 0001.4378.2DD8 |
| 4  | Bridge ID         | 00E0.A374.73DA |
| 5  | Cost(0/1;0/2;0/3) | 19/19/19       |
| 6  | Hello Time        | 2 sec          |
| 7  | Max Age           | 20 sec         |
| 8  | Forward Delay     | 15 sec         |

## SW 3

| NO | Variabel          | Nilai          |
|----|-------------------|----------------|
| 1  | Root ID           | 0001.4378.2DD8 |
| 2  | Priority          | 32769          |
| 3  | MAC Adress        | 0001.4378.2DD8 |
| 4  | Bridge ID         | 0001.4378.2DD8 |
| 5  | Cost(0/1;0/2;0/3) | 19/19/19       |
| 6  | Hello Time        | 2 sec          |
| 7  | Max Age           | 20 sec         |
| 8  | Forward Delay     | 15 sec         |

### TUGAS 4C:

Yang menjadi Root Bridge : SW 3

Yang menjadi Designated Bridge :

Yang menjadi root port : SW1 ( fa 0/3) & SW2 ( fa 0/2)

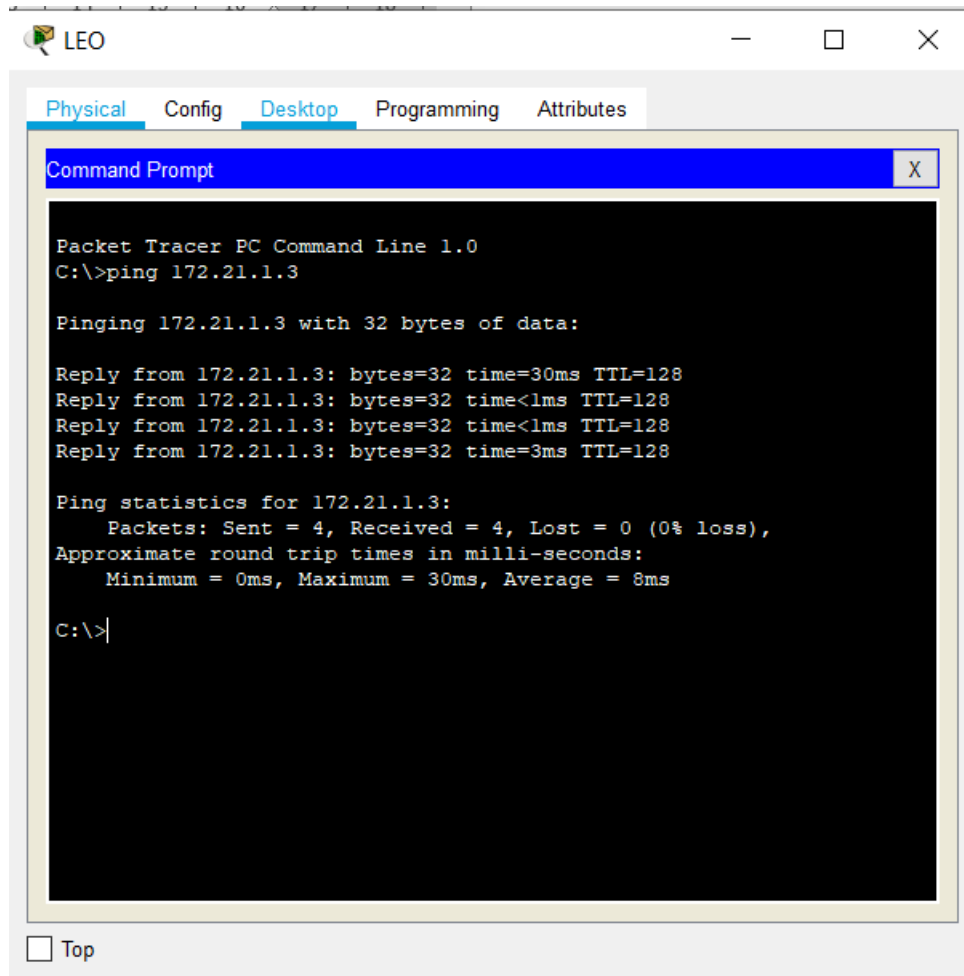
Yang menjadi Designated port : SW1(fa 0/2, fa 0/1) & SW2 (fa 0/3) & SW3 (fa 0/1, fa 0/2, fa 0/3)

TUGAS 4D :

Forwadding : SW1( fa 0/1, fa 0/2, fa 0/3) SW2(fa 0/2, fa 0/3) SW3(fa 0/1, fa 0/2, fa 0/3)

Blocking : SW2(fa 0/1)

TUGAS 5A:



The screenshot shows a Packet Tracer PC Command Line window for a device named LEO. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with Desktop selected. Inside the Desktop tab is a Command Prompt window titled 'Command Prompt' with a close button (X). The Command Prompt shows the following text:

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

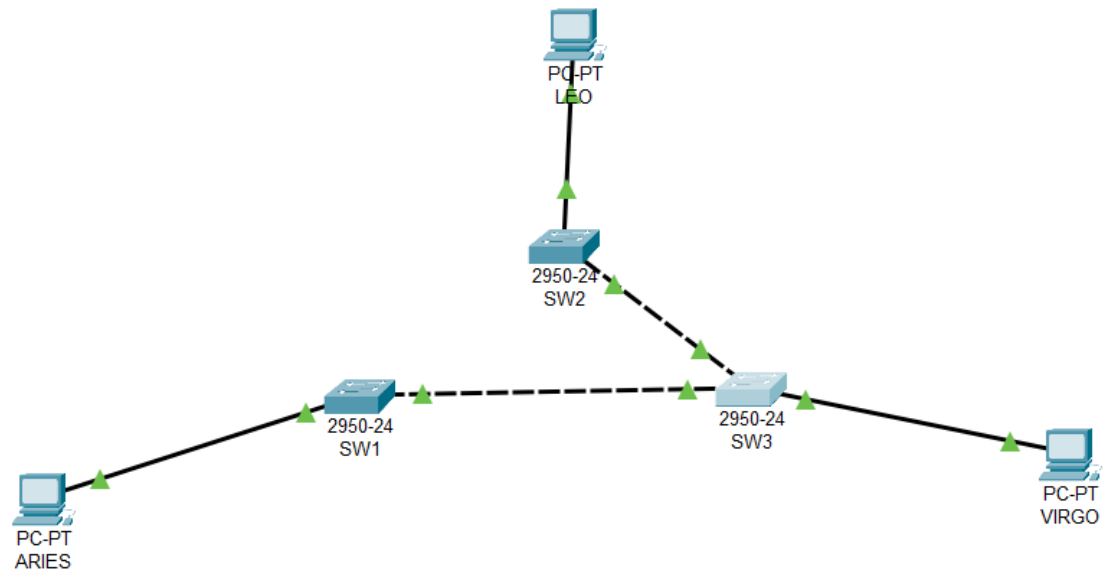
Reply from 172.21.1.3: bytes=32 time=30ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=3ms TTL=128

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 = 30ms, Average = 8ms

C:\>|
```

At the bottom of the Command Prompt window, there is a checkbox labeled 'Top' which is currently unchecked.

## 2. Kegiatan 2 topologi 2



TUGAS 9A:  
SW 1

SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
SW1#en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address    0001.4378.2DD8
             Cost        19
             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    0090.2147.96A4
             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


SW1#
```

Ctrl+F6 to exit CLI focus

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## SW2

 SW2 — □ ×

Physical Config CLI Attributes

IOS Command Line Interface

```
SW2#en
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0001.4378.2DD8
            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.A374.73DA
            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

SW2#
```

Ctrl+F6 to exit CLI focus

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## SW3

SW3
— □ ×

Physical
Config
CLI
Attributes

IOS Command Line Interface

```

SW3#
SW3#en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address    0001.4378.2DD8
             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    0001.4378.2DD8
             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
Fa0/2          Desg FWD 19      128.2    P2p
Fa0/1          Desg FWD 19      128.1    P2p

```

Ctrl+F6 to exit CLI focus

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## SW 1

| NO | Variabel          | Nilai          |
|----|-------------------|----------------|
| 1  | Root ID           | 0001.4378.2DD8 |
| 2  | Priority          | 32769          |
| 3  | MAC Adress        | 0001.4378.2DD8 |
| 4  | Bridge ID         | 0090.2147.96A4 |
| 5  | Cost(0/1;0/2;0/3) | 19/19          |
| 6  | Hello Time        | 2 sec          |
| 7  | Max Age           | 20 sec         |
| 8  | Forward Delay     | 15 sec         |

| <b>NO</b> | <b>Variabel</b>   | <b>Nilai</b>   |
|-----------|-------------------|----------------|
| <b>1</b>  | Root ID           | 0001.4378.2DD8 |
| <b>2</b>  | Priority          | 32769          |
| <b>3</b>  | MAC Adress        | 0001.4378.2DD8 |
| <b>4</b>  | Bridge ID         | 00E0.A374.73DA |
| <b>5</b>  | Cost(0/1;0/2;0/3) | 19/19          |
| <b>6</b>  | Hello Time        | 2 sec          |
| <b>7</b>  | Max Age           | 20 sec         |
| <b>8</b>  | Forward Delay     | 15 sec         |

SW 2

| <b>NO</b> | <b>Variabel</b>   | <b>Nilai</b>   |
|-----------|-------------------|----------------|
| <b>1</b>  | Root ID           | 0001.4378.2DD8 |
| <b>2</b>  | Priority          | 32769          |
| <b>3</b>  | MAC Adress        | 0001.4378.2DD8 |
| <b>4</b>  | Bridge ID         | 0001.4378.2DD8 |
| <b>5</b>  | Cost(0/1;0/2;0/3) | 19/19/19       |
| <b>6</b>  | Hello Time        | 2 sec          |
| <b>7</b>  | Max Age           | 20 sec         |
| <b>8</b>  | Forward Delay     | 15 sec         |

SW 3

Yang menjadi Root Bridge : SW 3

Yang menjadi Designated Bridge :

Yang menjadi root port : SW1 ( fa 0/3) & SW2 ( fa 0/2)

Yang menjadi Designated port : SW1(fa 0/1) & SW2 (fa 0/3) & SW3 (fa 0/1, fa 0/2, fa 0/3)

FORWADDING : SW1(fa 0/1, fa 0/3) SW2( ( fa 0/2, fa 0/3) SW3 (fa 0/1, fa 0/2, fa 0/3)

BLOCKING : tidak ada