

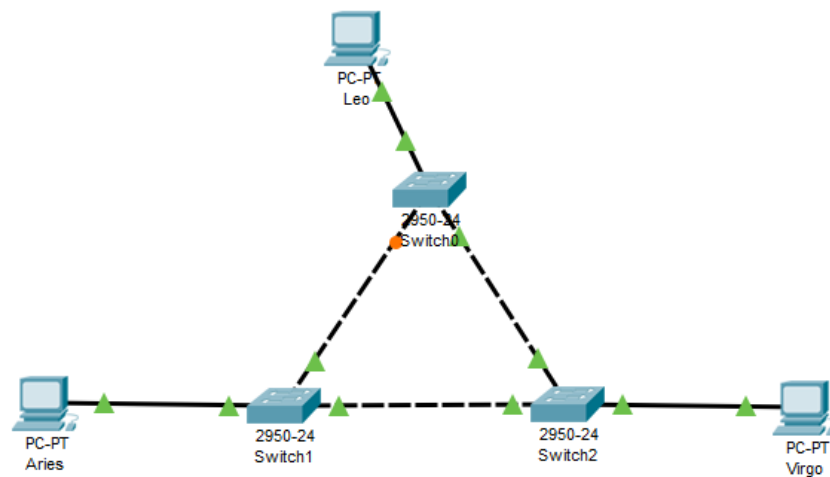
Nama : Palistya Nesty H

NIM : L200170083

Kelas : B

Modul : 5

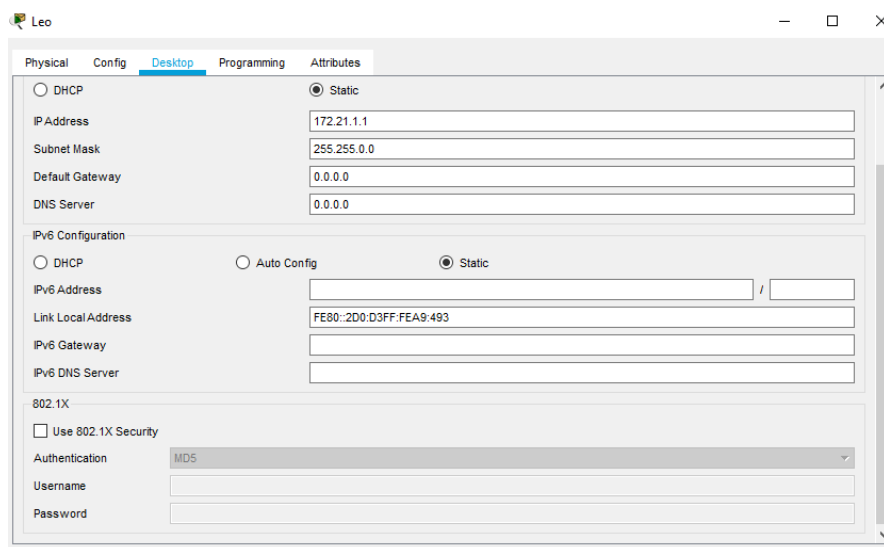
## LATIHAN 1



1A. Langkah pembuatan Topologi:

2A. Langkah pemberian nama pada switch mulai dari mode user

3. Masukkan IP pada masing2 PC:



Konfigurasi pada Leo

The Aries configuration window displays the following settings:

- Physical** | **Config** | **Desktop** | Programming | Attributes
- ☐ DHCP | ☒ Static
- IP Address: 172.21.1.2
- Subnet Mask: 255.255.0.0
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- IPv6 Configuration**
  - ☐ DHCP | ☐ Auto Config | ☒ Static
  - IPv6 Address: /
  - Link Local Address: FE80::201:96FF:FEE6:84BC
  - IPv6 Gateway:
  - IPv6 DNS Server:
- 802.1X**
  - ☐ Use 802.1X Security
  - Authentication: MD5
  - Username:
  - Password:

Konfigurasi pada Aries

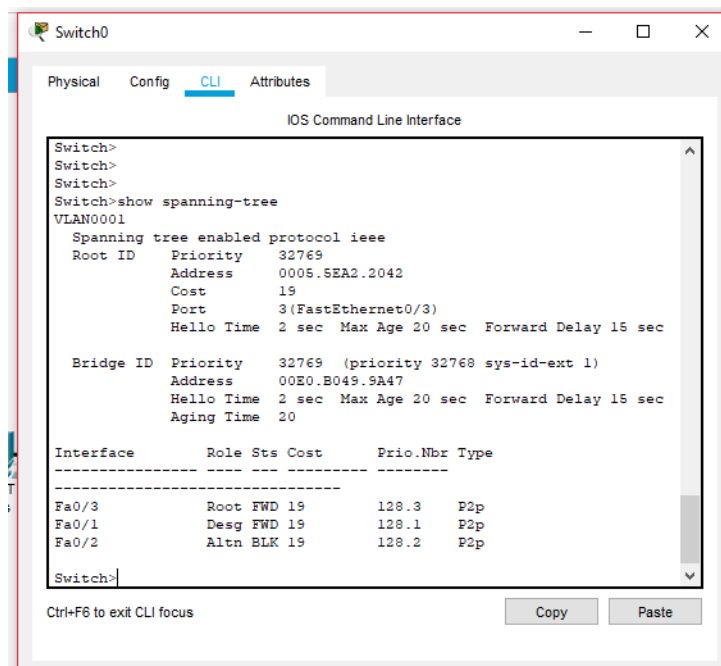
The Virgo configuration window displays the following settings:

- Physical** | **Config** | **Desktop** | Programming | Attributes
- ☐ DHCP | ☒ Static
- IP Address: 172.21.1.3
- Subnet Mask: 255.255.0.0
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- IPv6 Configuration**
  - ☐ DHCP | ☐ Auto Config | ☒ Static
  - IPv6 Address: /
  - Link Local Address: FE80::201:C7FF:FE14:980B
  - IPv6 Gateway:
  - IPv6 DNS Server:
- 802.1X**
  - ☐ Use 802.1X Security
  - Authentication: MD5
  - Username:
  - Password:

☐ Top

Konfigurasi pada Virgo

4.



## SWITCH0

No.	Variabel	Nilai
1.	Root ID	
2.	Priority	32769
3.	MAC Address	
4.	Bridge ID	00E0.B049.9A47
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

interface	Role	sts
Fa0/1	Root	FWD
Fa0/2	Desg	FWD
Fa0/3	Altn	FWD

## SWITCH1

Switch1

Physical

Config

CLI

Attributes

IOS Command Line Interface

```

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address    0005.5EA2.2042
             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    00D0.972E.104B
             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
Fa0/2              Desg FWD 19        128.2   P2p
Switch#

```

Ctrl+F6 to exit CLI focus

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☐ Top

No.	Variabel	Nilai
1.	Root ID	32769.0005.5EA2.2041
2.	Priority	32769
3.	MAC Address	0005.5EA2.2041
4.	Bridge ID	00D0.972E.104B
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

interface	Role	sts
Fa0/1	Desg	FWD
Fa0/2	Desg	FWD
Fa0/3	Root	FWD

SWITCH2

Switch2

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     0005.5EA2.2042
            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     0005.5EA2.2042
            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
Switch#

```

Ctrl+F6 to exit CLI focus

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No.	Variabel	Nilai
1.	Root ID	32769.0005.5EA2.2042
2.	Priority	32769
3.	MAC Address	0005.5EA2.2042
4.	Bridge ID	0005.5EA2.2042
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

interface	Role	sts
Fa0/1	Desc	FWD
Fa0/2	Desg	FWD
Fa0/3	Desc	FWD

4C. pada komdisi default, mana saja switch dan port yang:

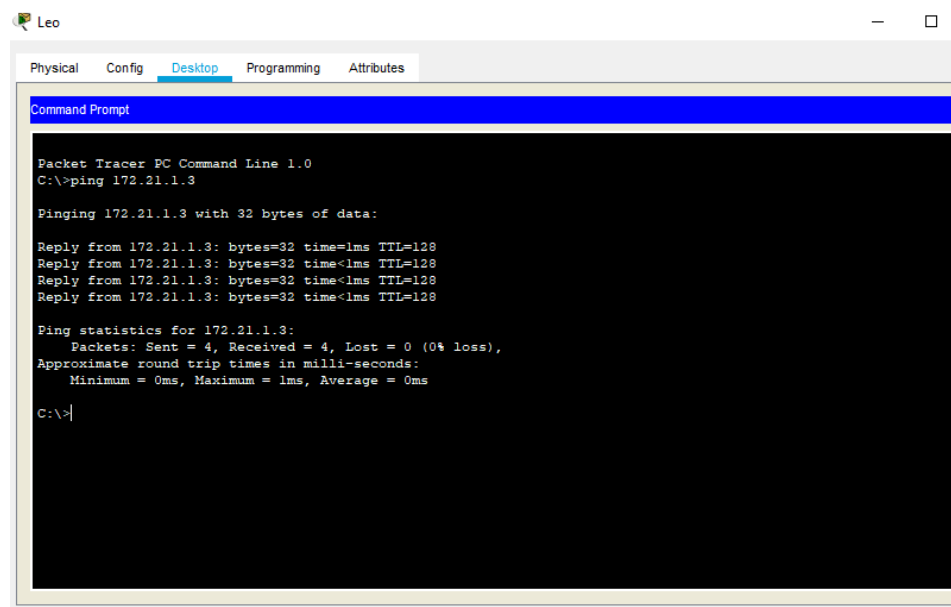
- menjadi root brigde : SW2
- menjadi designated bridge : SW0 dan SW2

- menjadi root port : SW1
- menjadi designated port : SW0

4D. pada kondisi default tersebut, port mana saja yang:

- berada pada keadaan Forwarding :
- berada pada keadaan blocking :

4. melakukan perintah ping Leo ke virgo



```
Leo
Physical Config Desktop Programming Attributes
Command Prompt

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

Pinging 172.21.1.3 with 32 bytes of data:

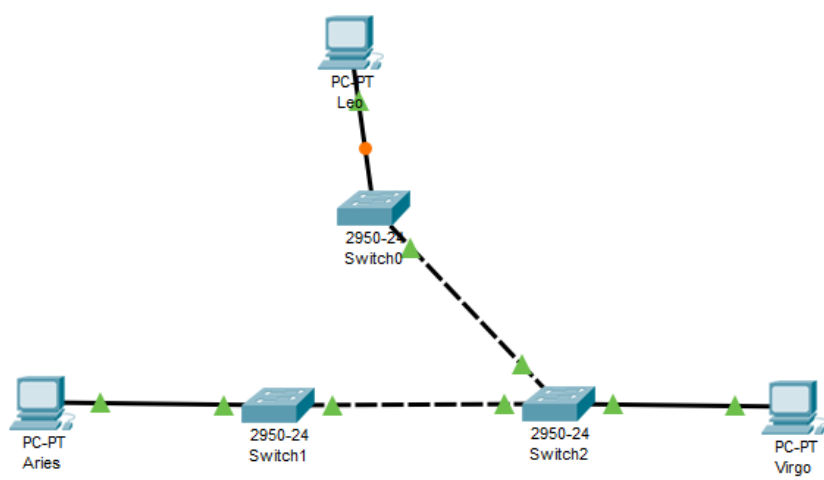
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128

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 = 1ms, Average = 0ms

C:\>
```

Ping PC Leo ke PC virgo

## KEGIATAN 2



## Switch0

Leo

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address: 172.21.1.1

Subnet Mask: 255.255.0.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:D3FF:FEA9:493

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

## Konfigurasi leo

Aries

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address: 172.21.1.2

Subnet Mask: 255.255.0.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:96FF:FEE6:84BC

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

## Konfigurasi Aries



The screenshot shows the 'Virgo' configuration window with the 'Desktop' tab selected. The 'Static' radio button is chosen for IP configuration. The IP Address is set to 172.21.1.3, Subnet Mask to 255.255.0.0, Default Gateway to 0.0.0.0, and DNS Server to 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected. The IPv6 Address field is empty, Link Local Address is FE80::201:C7FF:FE14:980B, and both IPv6 Gateway and IPv6 DNS Server fields are empty. The '802.1X' section has 'Use 802.1X Security' unchecked, 'Authentication' set to 'MD5', and both 'Username' and 'Password' fields are empty. A 'Top' button is at the bottom left.

## Konfigurasi Virgo

## Switch0

The screenshot shows the 'Switch0' CLI window with the 'CLI' tab selected. The 'IOS Command Line Interface' shows the following commands and output:

```

changed state to down

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0005.5EA2.2042
             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     00E0.B049.9A47
             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#
  
```

At the bottom, there is a 'Ctrl+F6 to exit CLI focus' message and 'Copy' and 'Paste' buttons. A 'Top' button is at the bottom left.

## SWITCH0

No.	Variabel	Nilai
1.	Root ID	32769.0005.5EA2.2042

2.	Priority	32769
3.	MAC Address	0005.5EA2.2042
4.	Bridge ID	00E0.B049.9A47
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

interface	Role	sts
Fa0/1	Root	FWD
Fa0/3	Desc	FWD

## SWITCH1

Switch1

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Switch#show spanning-show
^
% Invalid input detected at '^' marker.

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0005.5EA2.2042
             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     00D0.972E.104B
             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
Fa0/2          Desg FWD 19        128.2    P2p
    
```

Switch#

Ctrl+F6 to exit CLI focus

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No.	Variabel	Nilai
1.	Root ID	32769.0005.5EA2.2041
2.	Priority	32769
3.	MAC Address	0005.5EA2.2041

4.	Bridge ID	00D0.972E.104B
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

interface	Role	sts
Fa0/3	Root	FWD
Fa0/2	Desc	FWD

Switch2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```

Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0005.5EA2.2042
             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     0005.5EA2.2042
             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
Switch#

```

Ctrl+F6 to exit CLI focus

Copy

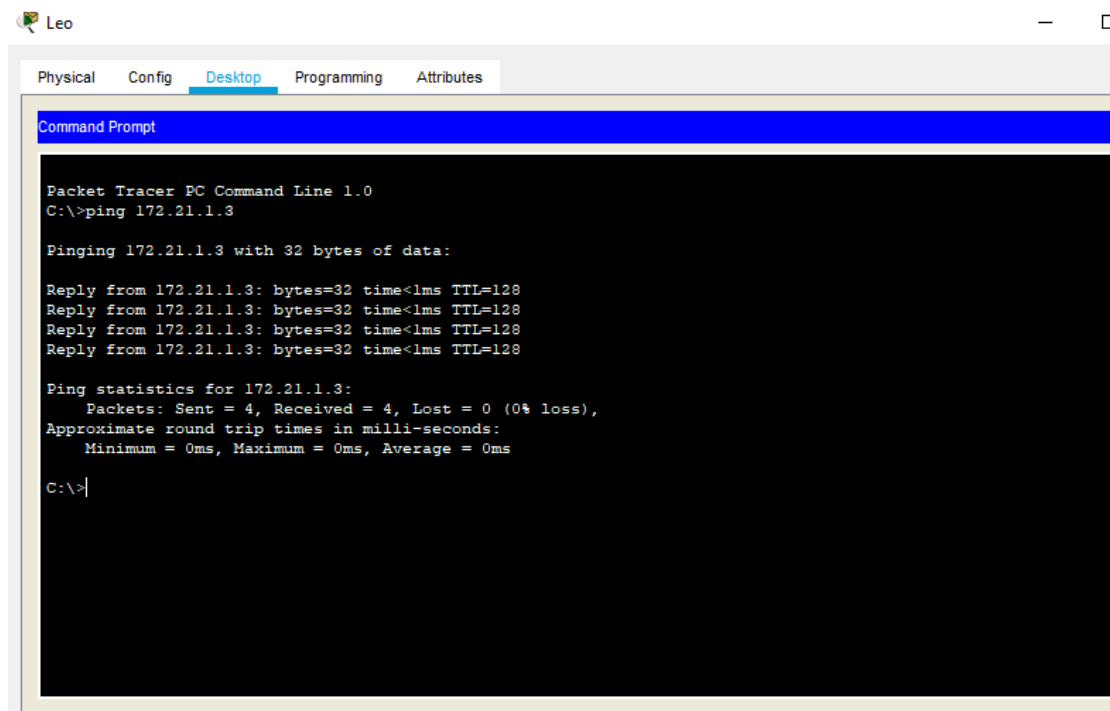
Paste

☐ Top

No.	Variabel	Nilai
1.	Root ID	32769.0005.5EA2.2042

2.	Priority	32769
3.	MAC Address	0005.5EA2.2042
4.	Bridge ID	0005.5EA2.2042
5.	Cost(0/1;0/2;0/3)	19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

interface	Role	sts
Fa0/1	Desc	FWD
Fa0/2	Desg	FWD
Fa0/3	Desc	FWD



Ping PC Leo ke PC Virgo