

Nama : Faras affifni zaki

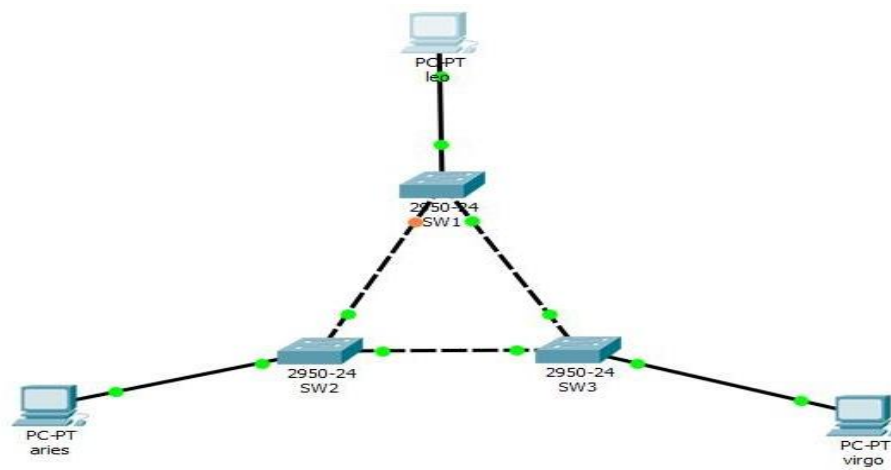
NIM : L200170069

Kelas : B

Modul : 6

Kegiatan 1

1. Topologi



2. Konfigurasi alamat IP

- Leo

The screenshot shows the 'leo' network configuration window. The 'Config' tab is selected. The 'IP Configuration' section is active, showing the following settings:

Field	Value
IP Configuration Mode	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

The 'IPv6 Configuration' section is also visible, showing the following settings:

Field	Value
IPv6 Configuration Mode	Static
IPv6 Address	
Link Local Address	FE80::202:4AFF:FE3C:445D
IPv6 Gateway	
IPv6 DNS Server	

- Aries

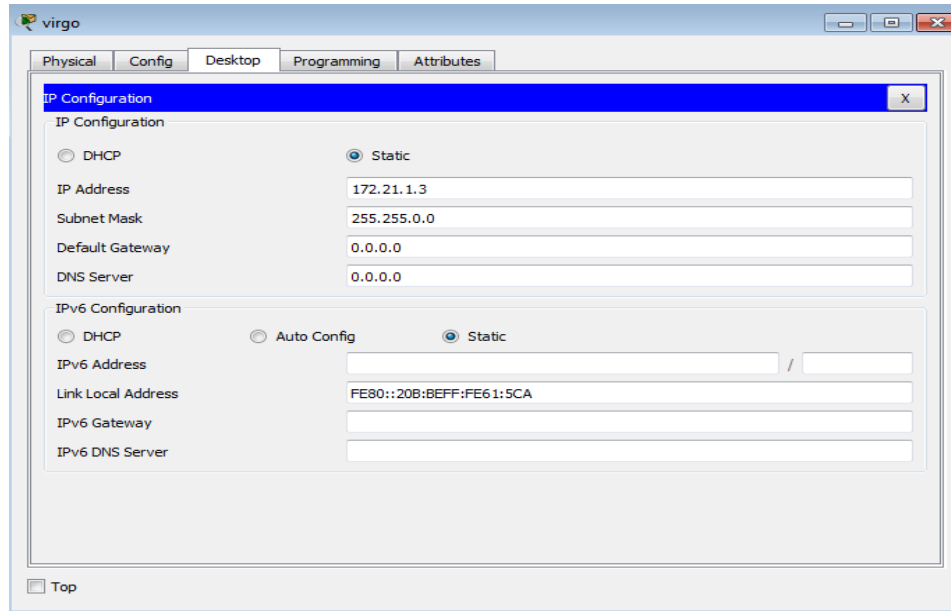
The screenshot shows the 'aries' network configuration window. The 'Config' tab is selected. The 'IP Configuration' section is active, showing the following settings:

Field	Value
IP Configuration Mode	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

The 'IPv6 Configuration' section is also visible, showing the following settings:

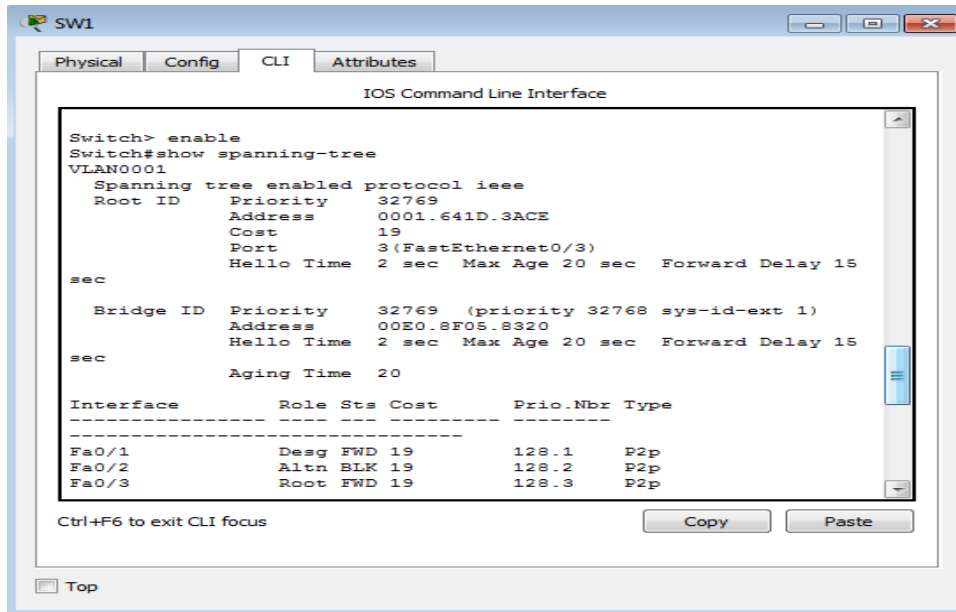
Field	Value
IPv6 Configuration Mode	Static
IPv6 Address	
Link Local Address	FE80::201:63FF:FE23:E34D
IPv6 Gateway	
IPv6 DNS Server	

- Virgo



3. Show spanning-tree pada masing-masing switch

- SW1



- SW2

SW2

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    0001.641D.3ACE
            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    0010.1159.5366
            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	Root	FWD	19	128.2	P2p
Fa0/1	Desg	FWD	19	128.1	P2p

Ctrl+F6 to exit CLI focus

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- SW3

SW3

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    0001.641D.3ACE
            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    0001.641D.3ACE
            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	Desg	FWD	19	128.1	P2p
Fa0/2	Desg	FWD	19	128.2	P2p

Ctrl+F6 to exit CLI focus

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Tabel SW1

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 00E0.8F05.8320
5.	Cost (0/1; 0/2; 0/3)	0/1 : 19; 0/2 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

Tabel SW2

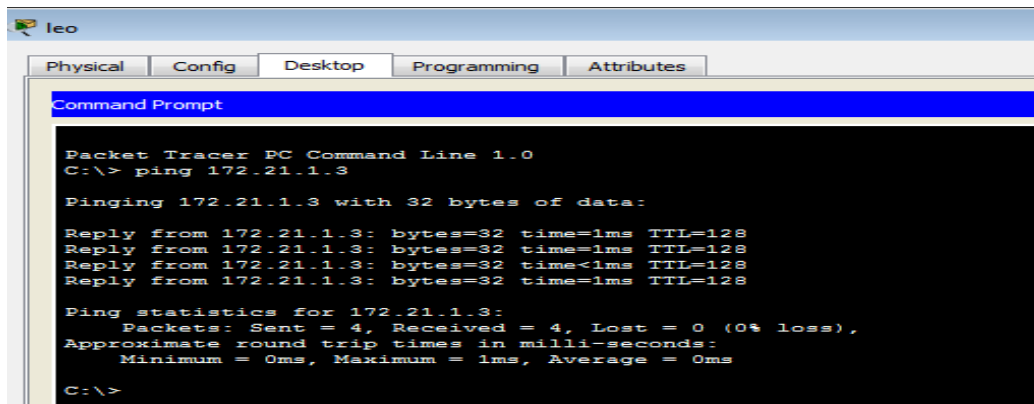
No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 0010.1159.5366
5.	Cost (0/1; 0/2; 0/3)	0/1 : 19; 0/2 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

Tabel SW3

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 001.641D.3ACE
5.	Cost (0/1; 0/2; 0/3)	0/1 : 19; 0/2 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

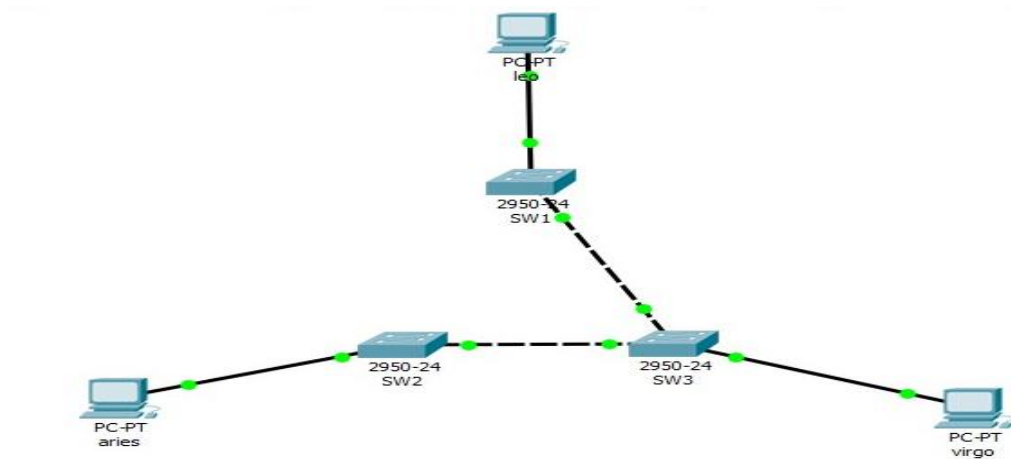
- Root bridge : SW3
- Designated bridge : SW1
- Root port : SW2
- Designated port : -
- Port kondisi forwarding
 - SW1 : Fa 0/1, Fa 0/3
 - SW2 : Fa 0/1, Fa 0/2, Fa 0/3
 - SW3 : Fa 0/1, Fa 0/2, Fa 0/3
- Port kondisi blocking : SW1 Fa 0/2

- #### 4. Ping dari PC Leo ke PC Virgo



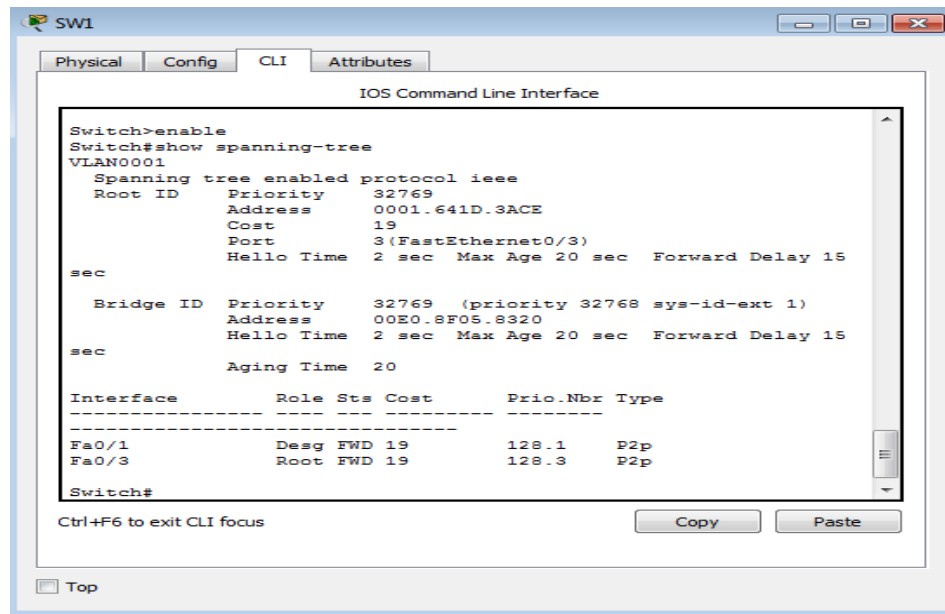
Kegiatan 2

- 1.



2. Show spanning tree pada masing-masing switch

- SW1



The screenshot shows the CLI of switch SW1. The user has entered the command `show spanning-tree VLAN0001`. The output displays the spanning tree configuration for VLAN0001, including the root ID, bridge ID, and interface roles.

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address     0001.641D.3ACE
              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     00E0.8F05.8320
              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          Root FWD 19       128.3    P2p

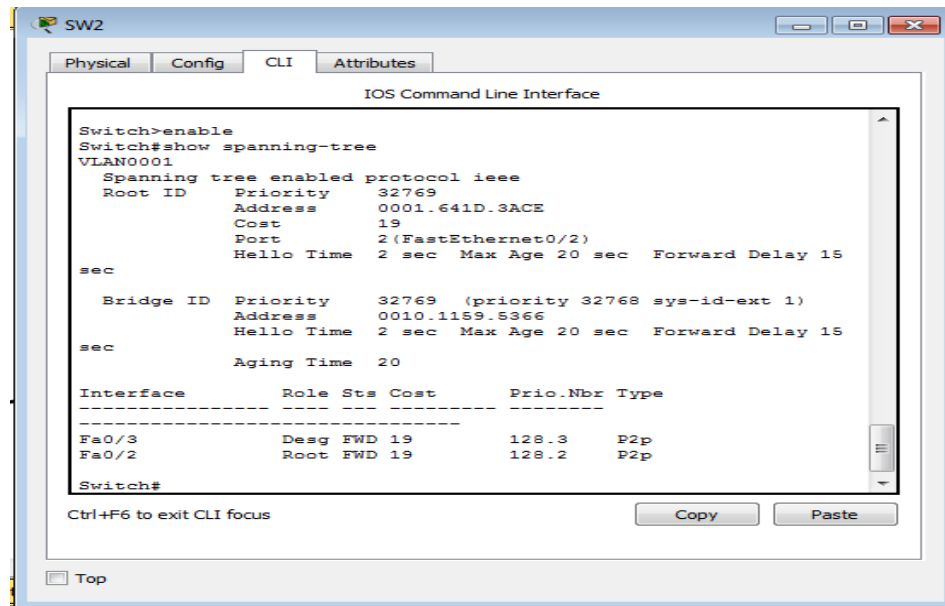
Switch#
```

Ctrl+F6 to exit CLI focus

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- SW2



The screenshot shows the CLI of switch SW2. The user has entered the command `show spanning-tree VLAN0001`. The output displays the spanning tree configuration for VLAN0001, including the root ID, bridge ID, and interface roles.

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address     0001.641D.3ACE
              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     0010.1159.5366
              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          Root FWD 19       128.2    P2p

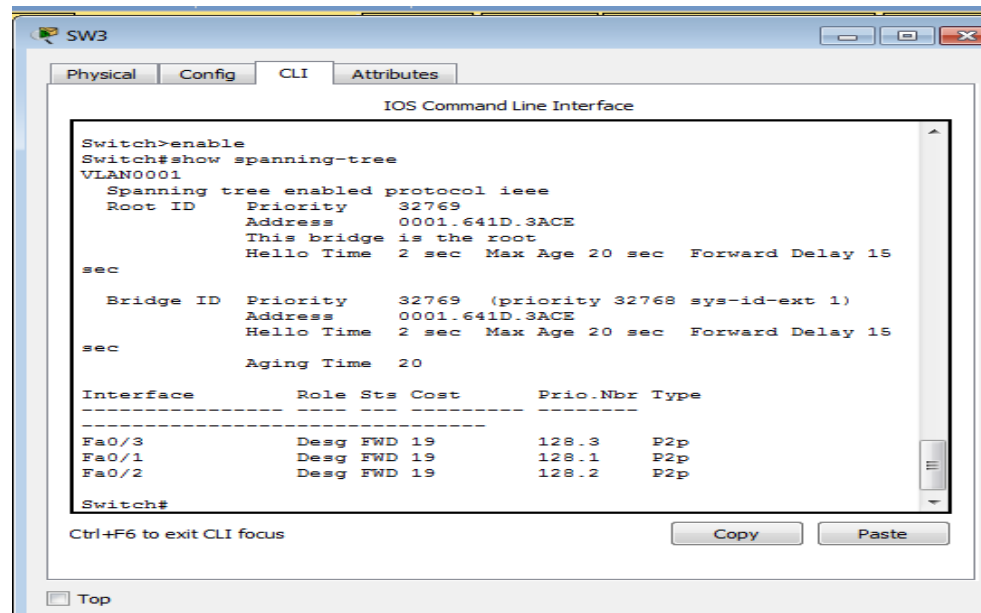
Switch#
```

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- SW3



Tabel SW1

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 00E0.8F05.8320
5.	Cost (0/1; 0/2; 0/3)	0/1 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

Tabel SW2

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 0010.1159.5366
5.	Cost (0/1; 0/2; 0/3)	0/2 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

Tabel SW3

No	Variabel	Nilai
1.	Root ID	32769, 001.641D.3ACE
2.	Priority	32769
3.	MAC Address	001.641D.3ACE
4.	Bridge ID	32769, 001.641D.3ACE
5.	Cost (0/1; 0/2; 0/3)	0/1 : 19; 0/2 : 19; 0/3 : 19
6.	Hello Time	2 sec
7.	Max Age	20 sec
8.	Forward Delay	15 sec

- Root bridge : SW3
- Designated bridge : -
- Root port : SW1, SW2
- Designated port : -

- Port kondisi forwarding
 - SW1 : Fa 0/1, Fa 0/3
 - SW2 : Fa 0/2, Fa 0/3
 - SW3 : Fa 0/1, Fa 0/2, Fa 0/3
- Port kondisi blocking : -