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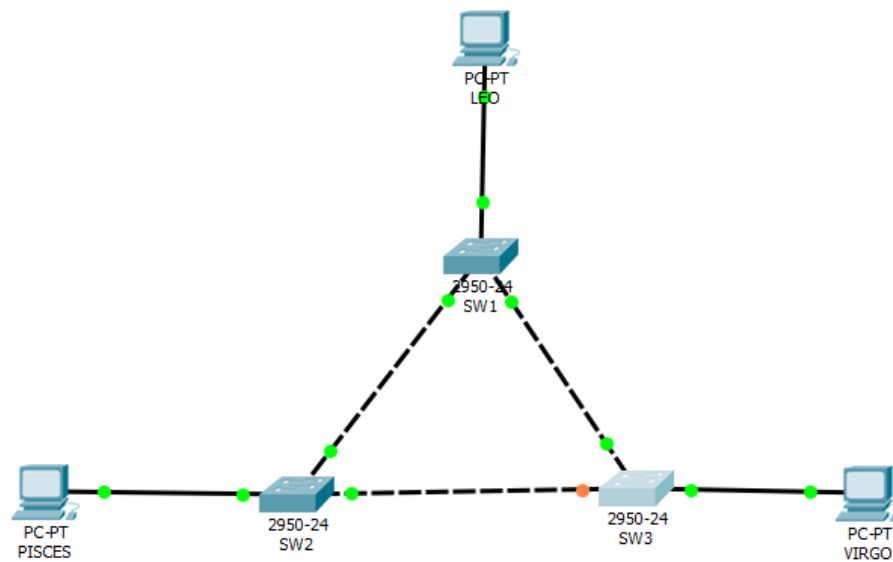
NIM : L200170182

Kelas : D

# Laporan Praktikum Jaringan Komputer

## Modul 6

Kegiatan 1 :



IP Address pada setiap PC

The screenshot shows the 'LEO' network configuration window. It has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Config' tab is active, and the 'IP Configuration' section is highlighted. Under 'IP Configuration', the 'Static' radio button is selected. The fields are filled with: IP Address: 172.21.1.1, Subnet Mask: 255.255.0.0, Default Gateway: 0.0.0.0, and DNS Server: 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is selected. The fields are: IPv6 Address (empty), Link Local Address: FE80::20A:F3FF:FE0B:D597, IPv6 Gateway (empty), and IPv6 DNS Server (empty). A 'Top' button is at the bottom left.

IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> 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	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	/
Link Local Address	FE80::20A:F3FF:FE0B:D597
IPv6 Gateway	
IPv6 DNS Server	

☐ Top

The screenshot shows the 'PISCES' network configuration window. It has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Config' tab is active, and the 'IP Configuration' section is highlighted. Under 'IP Configuration', the 'Static' radio button is selected. The fields are filled with: IP Address: 172.21.1.2, Subnet Mask: 255.255.0.0, Default Gateway: 0.0.0.0, and DNS Server: 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is selected. The fields are: IPv6 Address (empty), Link Local Address: FE80::202:16FF:FECC:A577, IPv6 Gateway (empty), and IPv6 DNS Server (empty). A 'Top' button is at the bottom left.

IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> 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	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	/
Link Local Address	FE80::202:16FF:FECC:A577
IPv6 Gateway	
IPv6 DNS Server	

☐ Top

VIRGO

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ 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 /

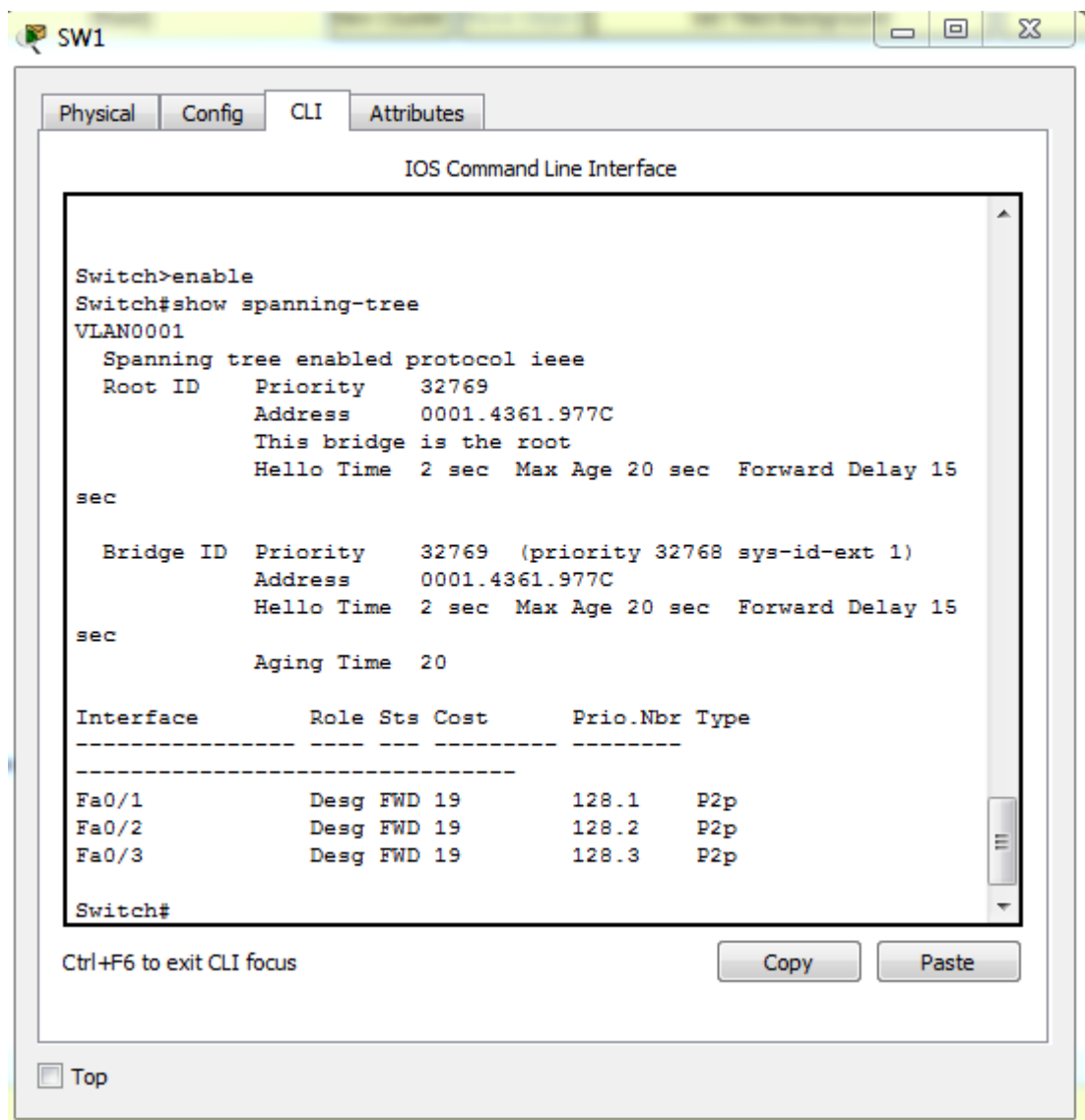
Link Local Address FE80::209:7CFF:FE84:CC7A

IPv6 Gateway

IPv6 DNS Server

Top

Hasil *show spanning-tree* pada setiap switch



The screenshot shows a network switch window titled 'SW1' with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the 'IOS Command Line Interface'. The user has entered the commands 'Switch>enable' and 'Switch#show spanning-tree'. The output shows spanning tree is enabled for VLAN0001, with the root ID being the switch itself (0001.4361.977C). Below this, a table lists the interfaces and their roles in the spanning tree.

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.4361.977C
             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     0001.4361.977C
             Hello Time 2 sec  Max Age 20 sec  Forward Delay 15
sec

             Aging Time 20

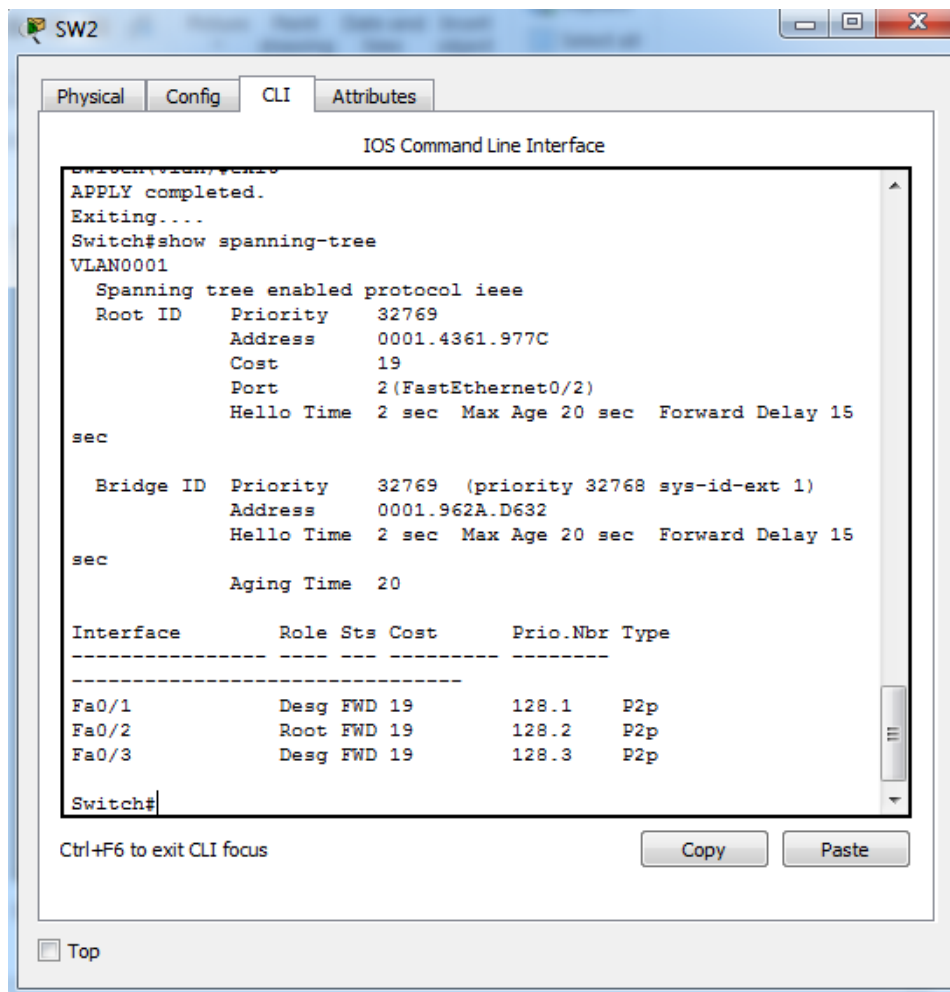
Interface    Role Sts Cost      Prio.Nbr Type
-----
Fa0/1        Desg FWD 19        128.1    P2p
Fa0/2        Desg FWD 19        128.2    P2p
Fa0/3        Desg FWD 19        128.3    P2p

Switch#
```

Ctrl+F6 to exit CLI focus

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SW3

Physical

Config

CLI

Attributes

IOS Command Line Interface

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID      Priority      32769

Address      0001.4361.977C

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      0002.4A3E.8137

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            Altn   BLK   19      128.3    P2p

Switch#

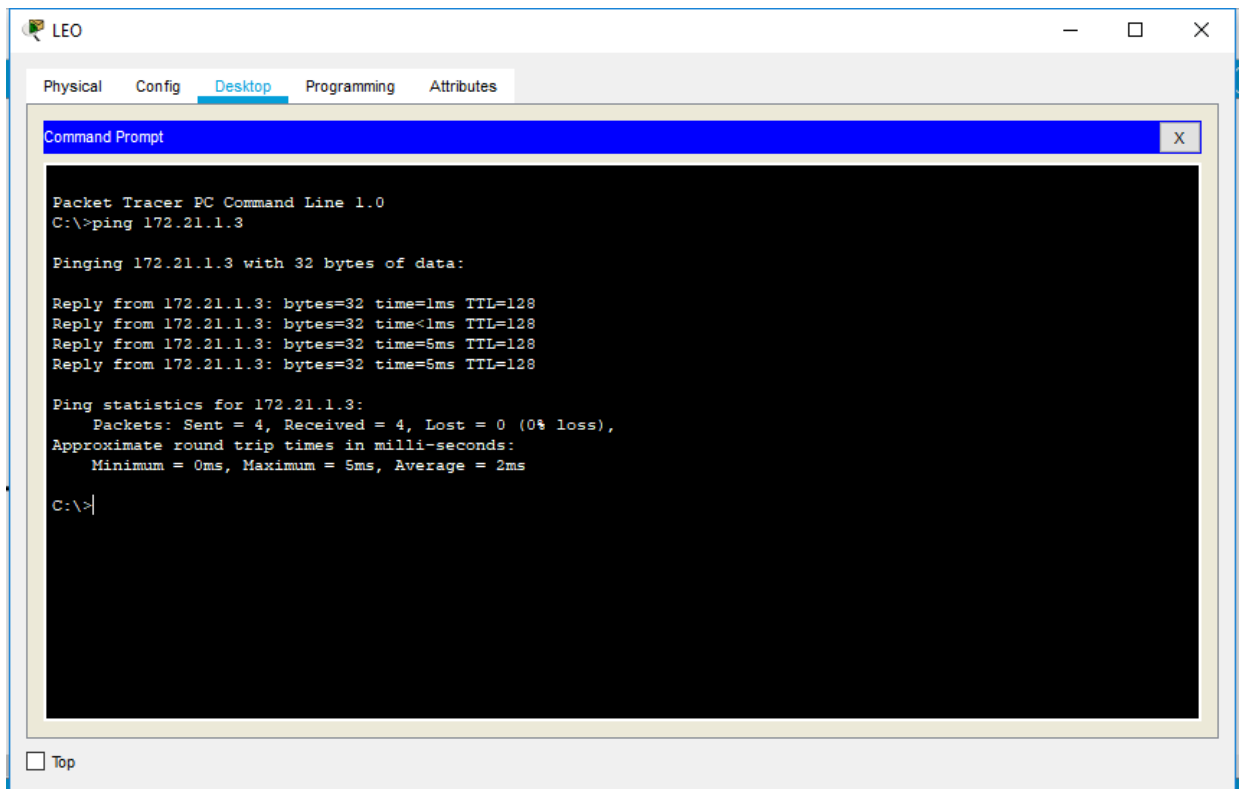
Ctrl+F6 to exit CLI focus

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Tes Ping Leo ke Virgo



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' currently selected. The command prompt displays the output of a 'ping 172.21.1.3' command. The output shows four successful replies with 32 bytes of data, response times of 1ms and 5ms, and a TTL of 128. Ping statistics indicate 4 packets sent, 4 received, and 0% loss, with an average round trip time of 2ms.

```
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:

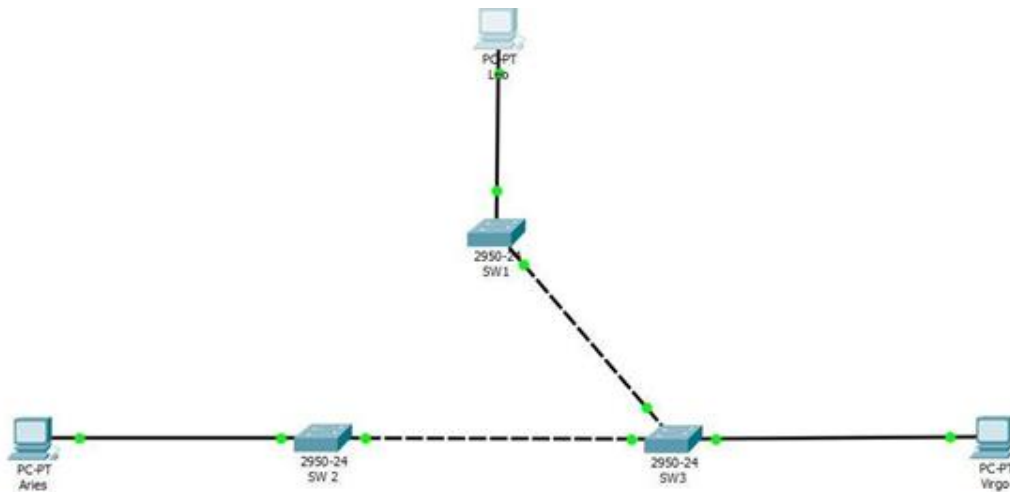
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=5ms TTL=128
Reply from 172.21.1.3: bytes=32 time=5ms TTL=128

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 = 5ms, Average = 2ms

C:\>
```

☐ Top

## Kegiatan 2 :



## Pengecekan spanning-tree

SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
documentation for configuring VTP/VLAN in config mode.

Switch(vlan)#exit
APPLY completed.
Exiting....
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0003.E4E7.056A
             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.E4E7.056A
             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

Switch#
```

Ctrl+F6 to exit CLI focus

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SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

Switch(vlan)#exit  
APPLY completed.  
Exiting....  
Switch#show spanning-tree  
VLAN0001  
Spanning tree enabled protocol ieee  
Root ID    Priority    32769  
          Address    0003.E4E7.056A  
          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    0060.3EC5.6788  
          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  
Fa0/1            Desg   FWD   19        128.1    P2p  
  
Switch#

Ctrl+F6 to exit CLI focus

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SW3

Physical

Config

CLI

Attributes

IOS Command Line Interface

Switch(vlan)#exit  
APPLY completed.  
Exiting....  
Switch#show spanning-tree  
VLAN0001  
Spanning tree enabled protocol ieee  
Root ID    Priority    32769  
          Address    0003.E4E7.056A  
          Cost        38  
          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.B0C8.D0B1  
          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  
  
Switch#

Ctrl+F6 to exit CLI focus

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