

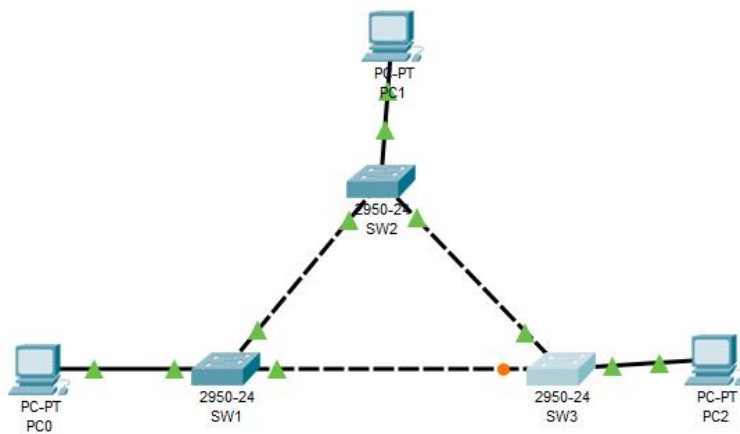
NAMA : MU'TAZ AL FARISI

NIM : L200180152

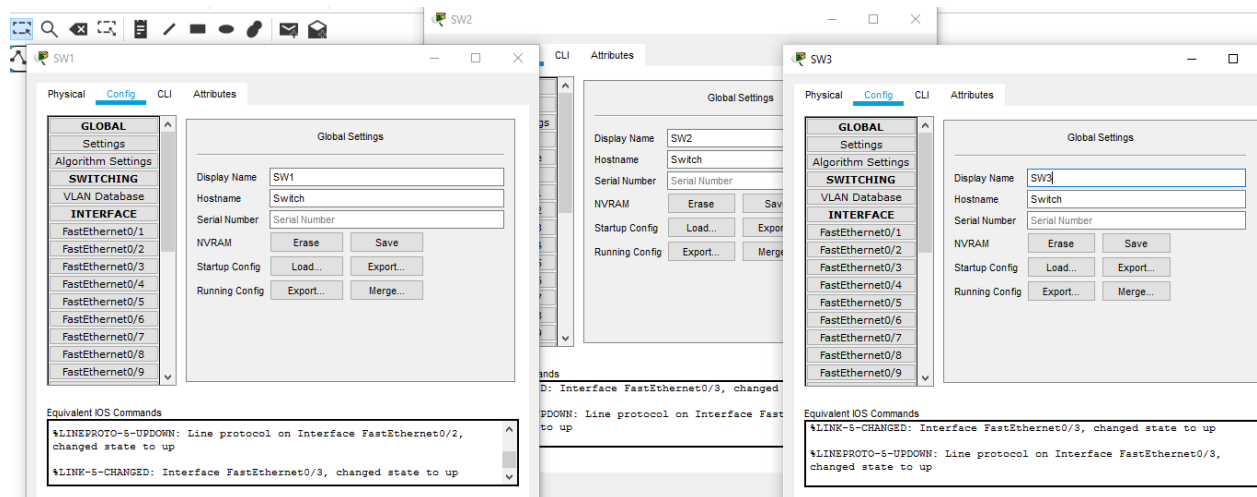
KELAS : D

MODUL 6

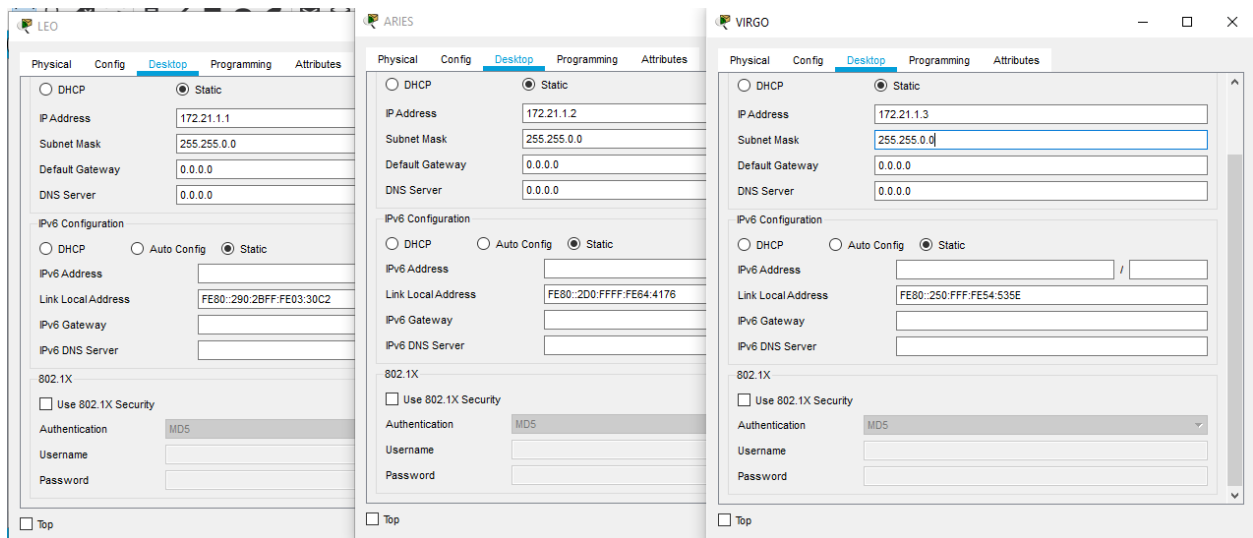
1. Pembuatan topologi



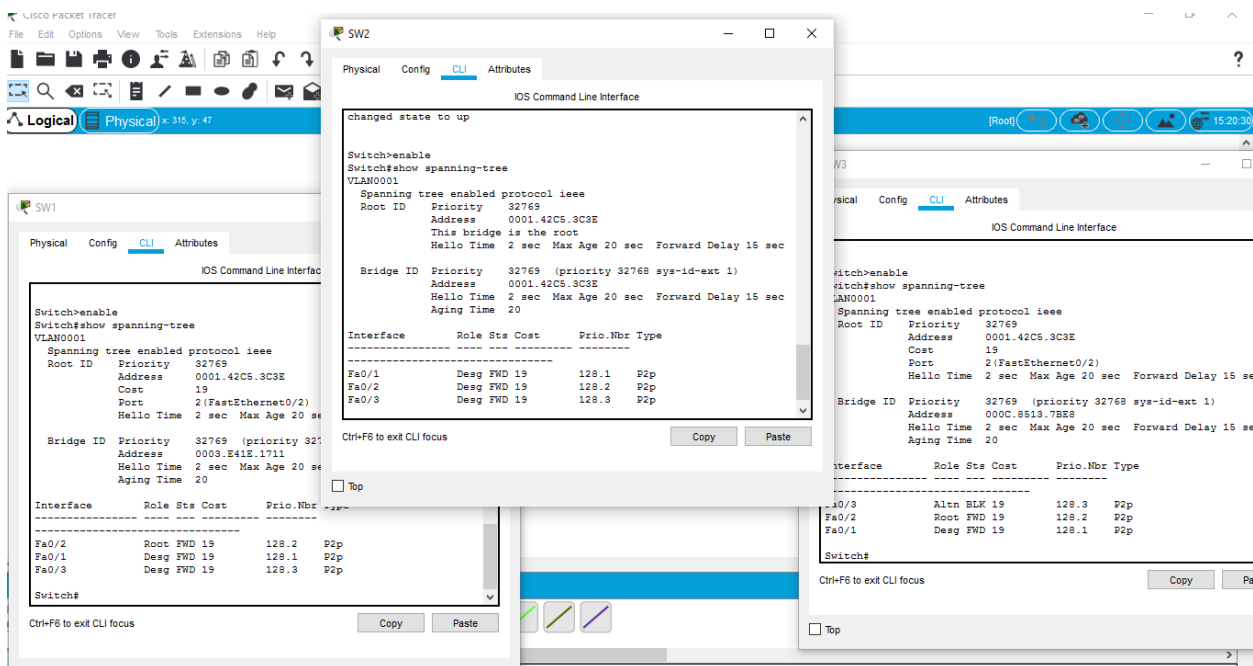
Beri nama switch



Pemberian nama switch mulai dari mode user.



Melihat status STP masing masing switch



Isi table

SW 1

NO	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.42C5.3C3E
4	Bridge ID	
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

SW 2

NO	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.42C5.3C3E
4	Bridge ID	
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

SW 3

NO	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.42C5.3C3E
4	Bridge ID	
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 = Switch SW 2

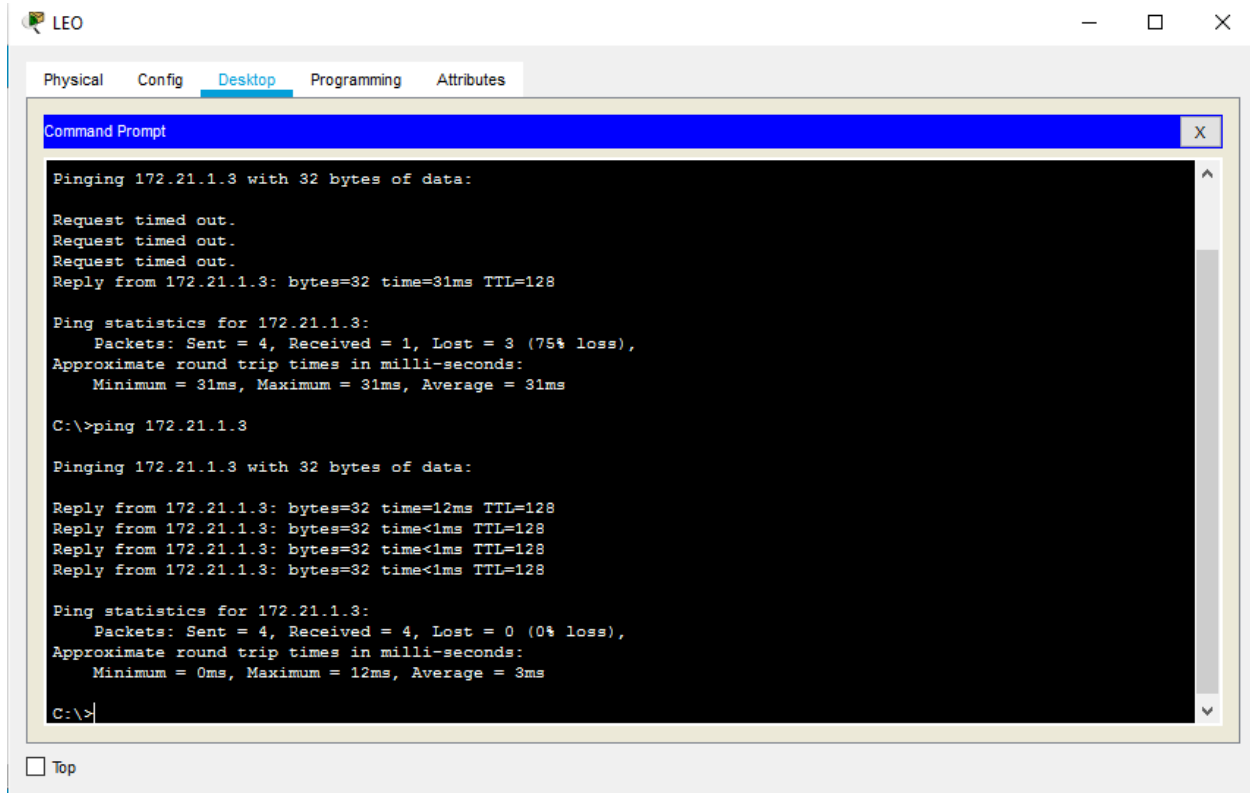
designated bridge = Switch SW1 dan Switch SW3

root port = 2(FastEthernet0/2)

designated port = 1(FastEthernet0/1) dan 3(FastEthernet0/3)

forwarding = 1(FastEthernet0/1) dan 2(FastEthernet0/2)

Blocking = 3(FastEthernet0/3)



The screenshot shows a Windows Command Prompt window titled "LEO". The window has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes", with "Desktop" selected. The Command Prompt displays the output of a ping command to 172.21.1.3. The first ping attempt shows three "Request timed out." messages followed by a successful reply from 172.21.1.3 with 32 bytes of data, a time of 31ms, and a TTL of 128. The ping statistics for 172.21.1.3 show 4 packets sent, 1 received, and 3 lost (75% loss), with an approximate round trip time of 31ms. The second ping attempt shows four successful replies from 172.21.1.3 with 32 bytes of data, times of 12ms, and a TTL of 128. The ping statistics for 172.21.1.3 show 4 packets sent, 4 received, and 0 lost (0% loss), with an approximate round trip time of 3ms. The prompt is currently at "C:\>".

```
Pinging 172.21.1.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Reply from 172.21.1.3: bytes=32 time=31ms TTL=128

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 1, Lost = 3 (75% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 31ms, Maximum = 31ms, Average = 31ms

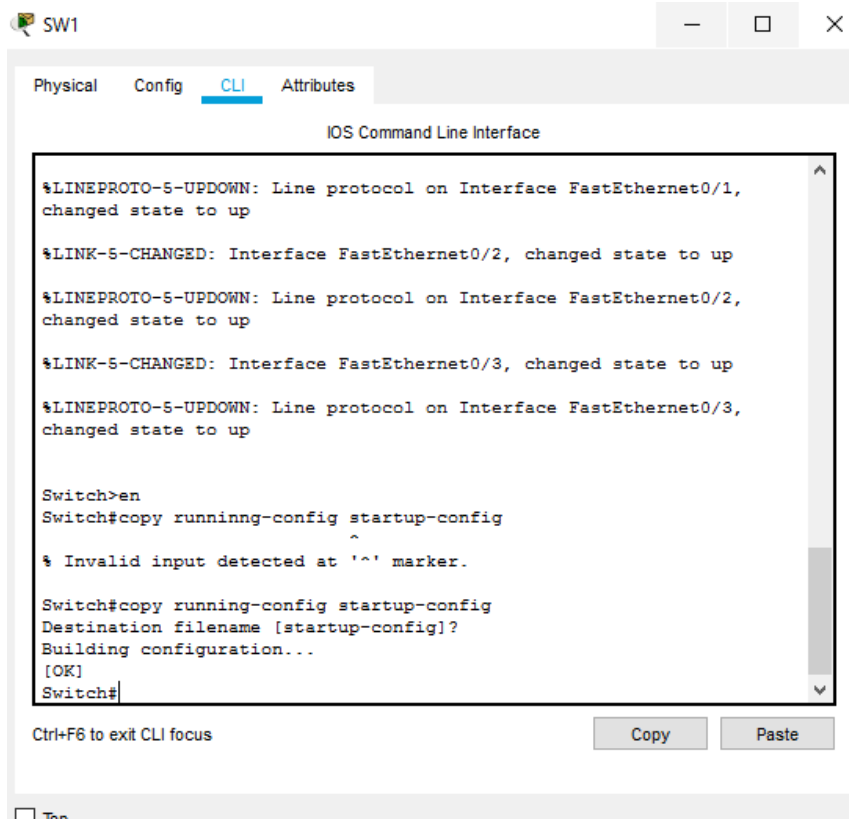
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=12ms 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 = 12ms, Average = 3ms

C:\>
```



The screenshot shows a Cisco IOS CLI window titled "SW1". The window has tabs for "Physical", "Config", "CLI", and "Attributes", with "CLI" selected. The CLI displays the output of several commands. The first four lines show status messages: "%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up", "%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up", "%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up", and "%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up". The next four lines show the output of the "copy running-config startup-config" command: "Switch>en", "Switch#copy runningng-config startup-config", "% Invalid input detected at '^' marker.", and "Switch#copy running-config startup-config". The prompt is currently at "Switch#".

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up

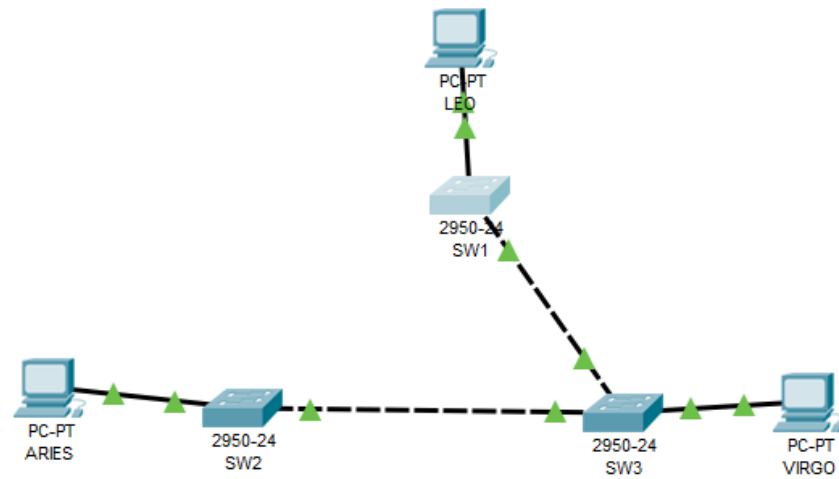
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

Switch>en
Switch#copy runningng-config startup-config

% Invalid input detected at '^' marker.

Switch#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Switch#
```

2. Kegiatan 2. Topologi 2



SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch>en
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.42C5.3C3E
             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     0003.E41E.1711
             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

Copy Paste

Top

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to up

Switch>en
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.42C5.3C3E
             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     0001.42C5.3C3E
             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                    Desg FWD 19        128.1    P2p

Switch#
```

Ctrl+F6 to exit CLI focus

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☐ Top

IOS Command Line Interface

```
Switch>en
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.42C5.3C3E
             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     000C.8513.7BE8
             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                    Desg FWD 19        128.1    P2p
Fa0/3                    Root FWD 19        128.3    P2p

Switch#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top

SW 1

NO	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.42C5.3C3E
4	Bridge ID	
5	Cost (0/1;0/2;0/3)	19;19;-
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 2

NO	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.42C5.3C3E
4	Bridge ID	
5	Cost (0/1;0/2;0/3)	19;19;-
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 3

NO	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.42C5.3C3E
4	Bridge ID	
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