Nama : Nanang Dwi Prasetyo

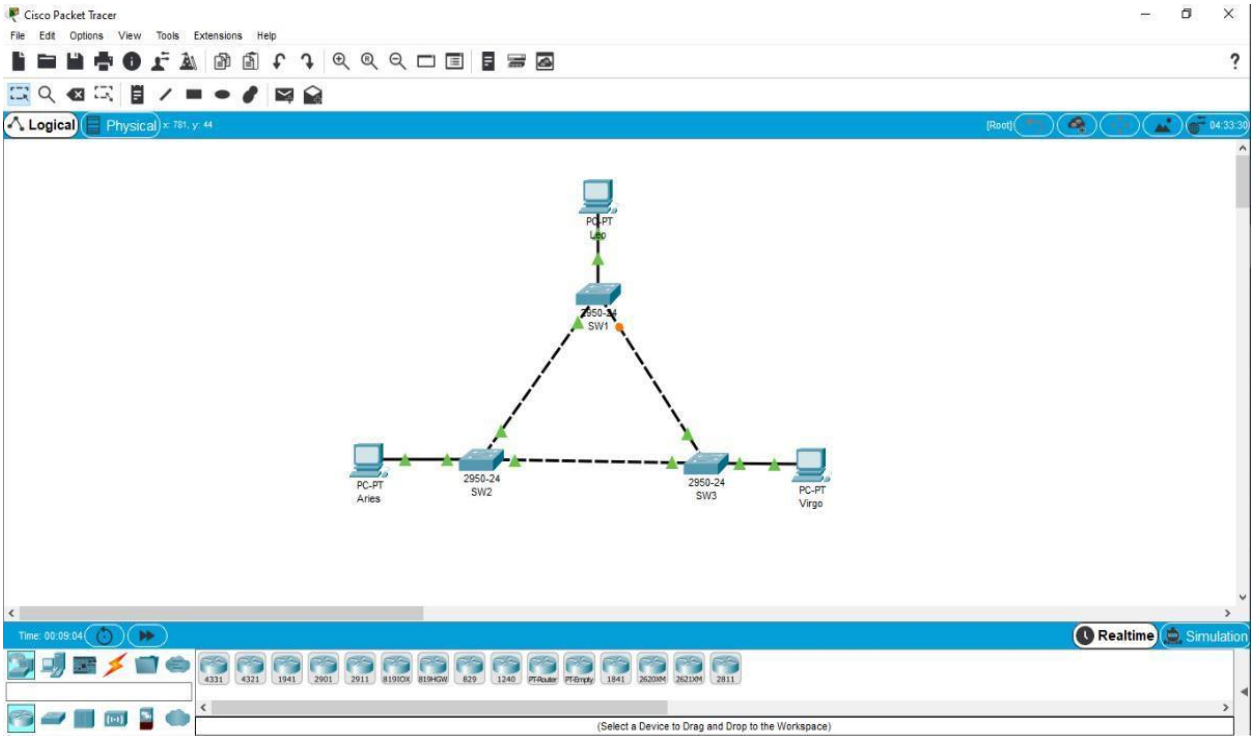
Nim : L200180157

Kls : D

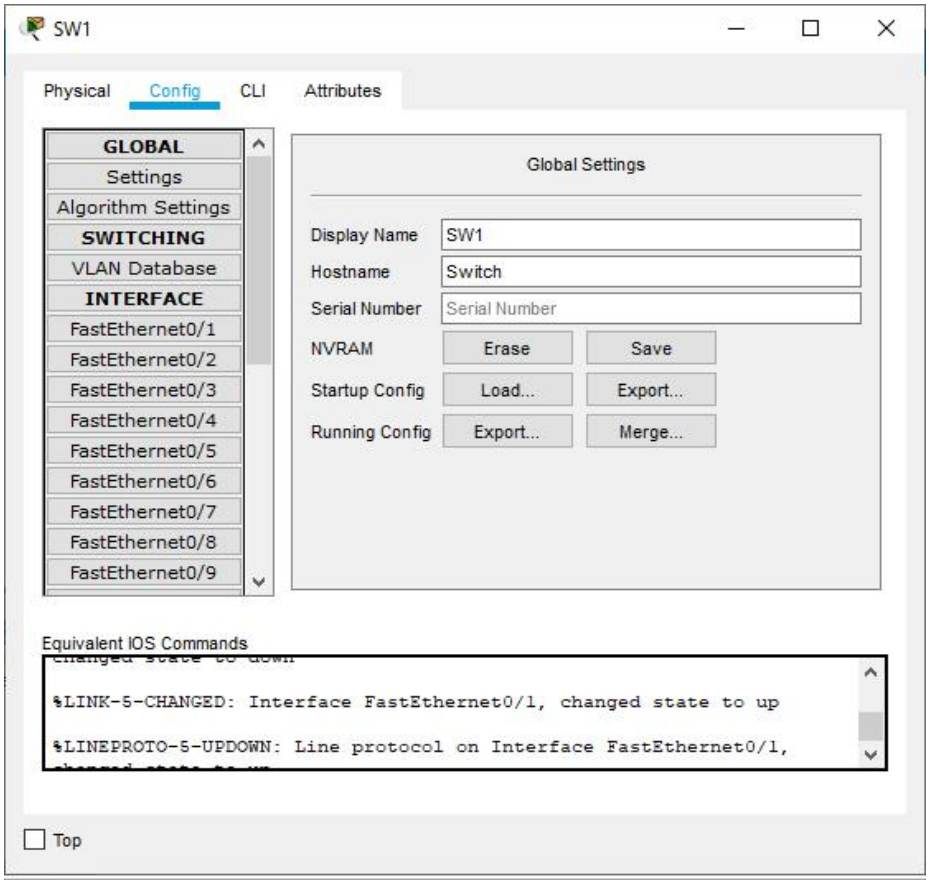
PRAKTIKUM JARINGAN KOMPUTER MODUL 6

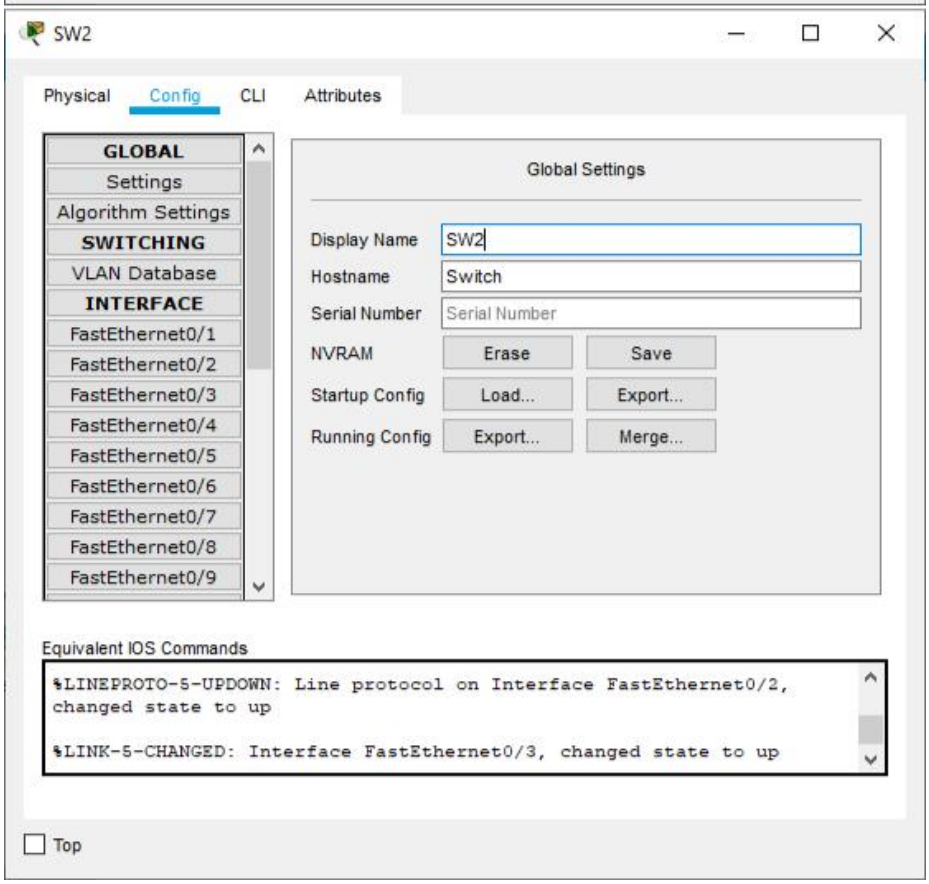
Kegiatan 1. Topologi 1

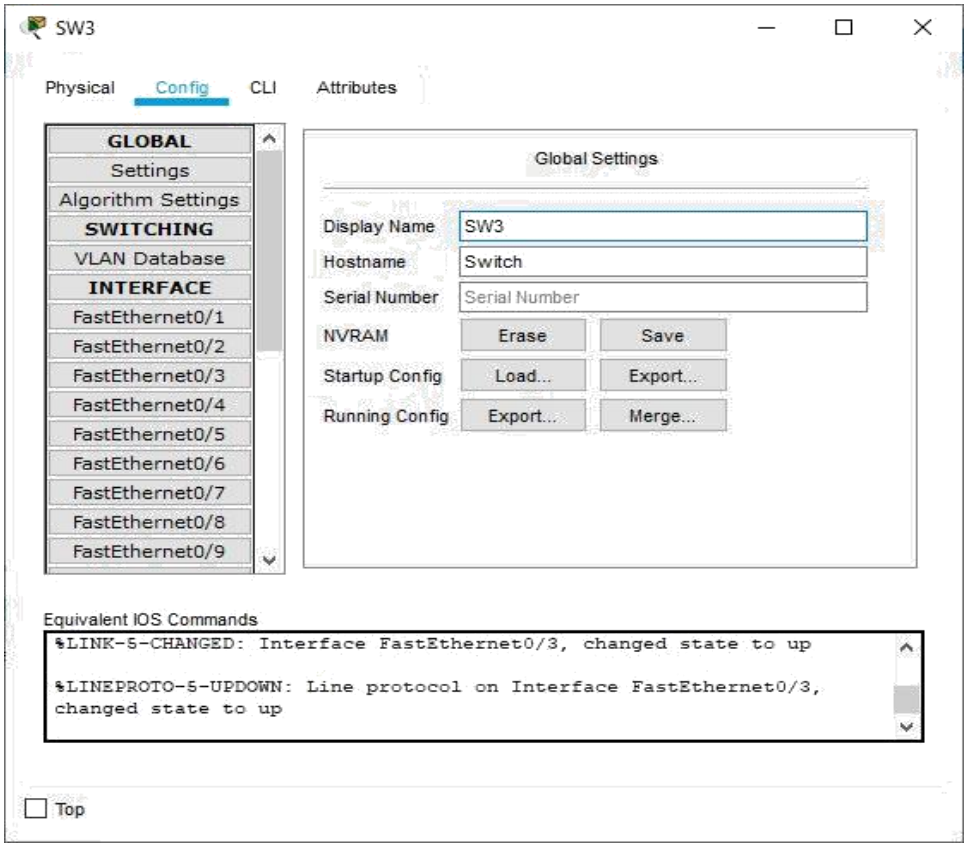
1A :



2A :


SW1
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/1
FastEthernet0/2
FastEthernet0/3
FastEthernet0/4
FastEthernet0/5
FastEthernet0/6
FastEthernet0/7
FastEthernet0/8
FastEthernet0/9
Global Settings
Display Name
SW1
Hostname
Switch
Serial Number
Serial Number
NVRAM
Erase
Save
Startup Config
Load...
Export...
Running Config
Export...
Merge...
Equivalent IOS Commands
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
Top


SW2
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/1
FastEthernet0/2
FastEthernet0/3
FastEthernet0/4
FastEthernet0/5
FastEthernet0/6
FastEthernet0/7
FastEthernet0/8
FastEthernet0/9
Global Settings
Display Name
SW2
Hostname
Switch
Serial Number
Serial Number
NVRAM
Erase
Save
Startup Config
Load...
Export...
Running Config
Export...
Merge...
Equivalent IOS Commands
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
Top



Langkah-Langkah :

SW1

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW1
SW1(config)#end

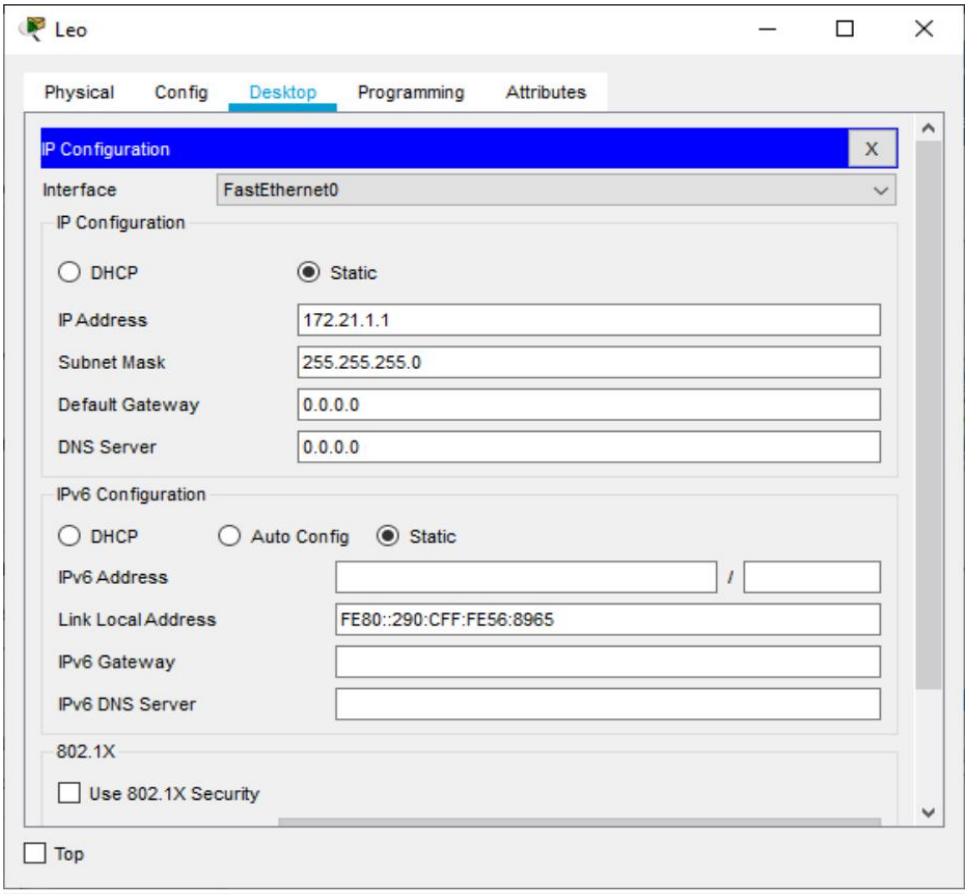
SW2

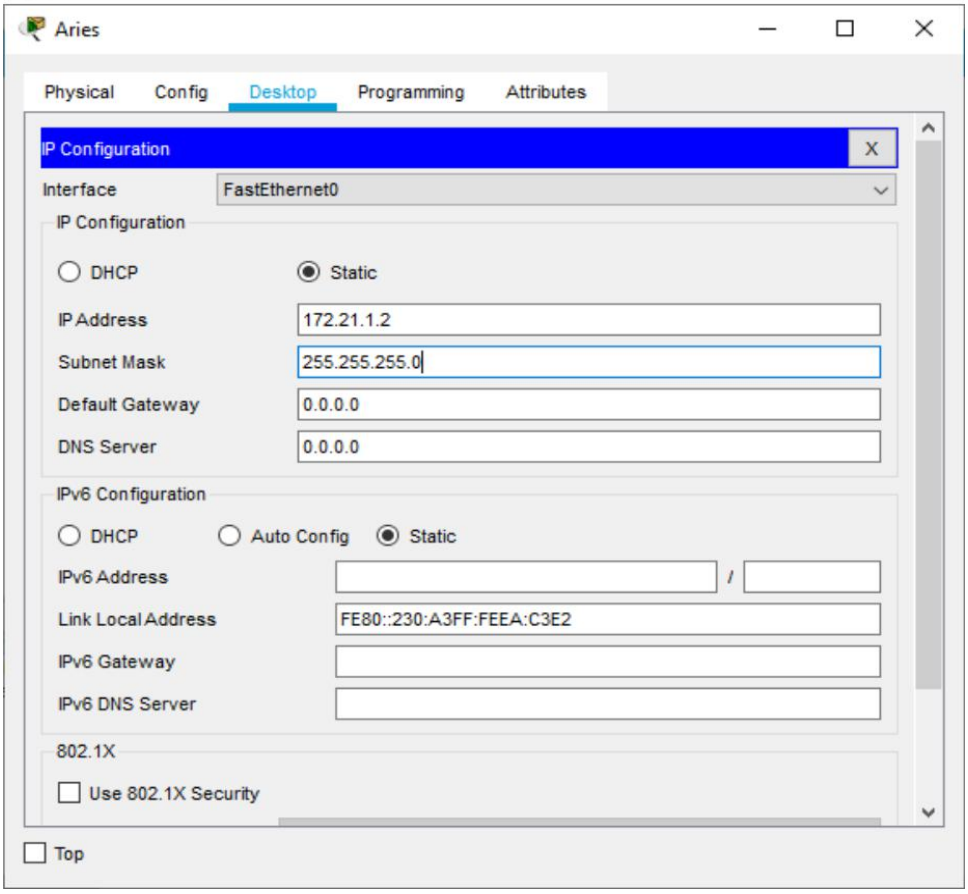
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#end

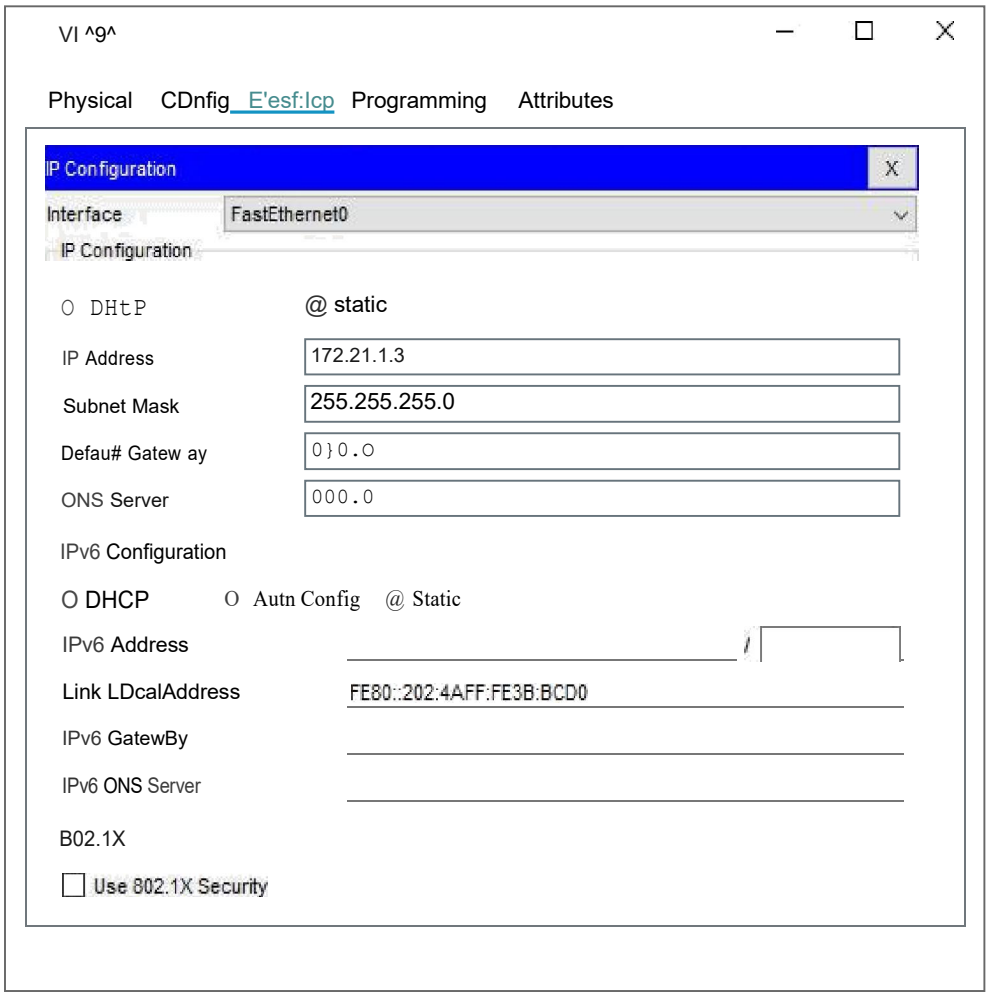
SW3

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#end

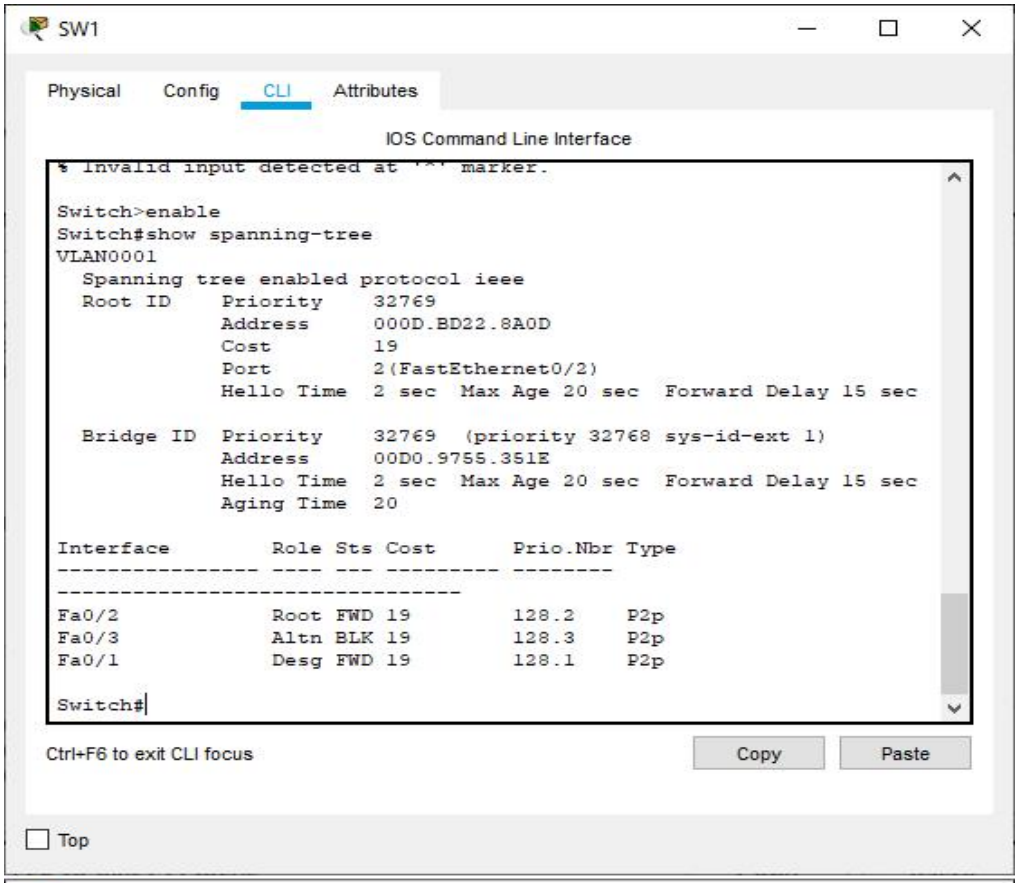
Konfigurasi IP tiap PC

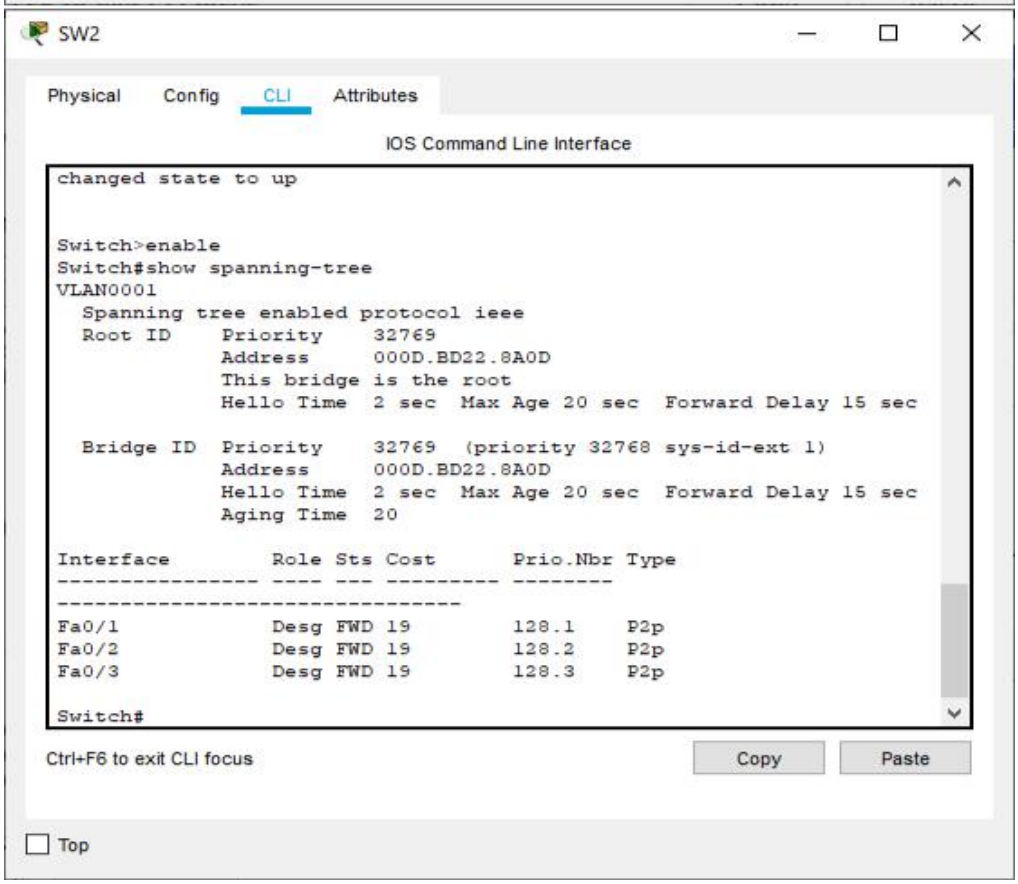


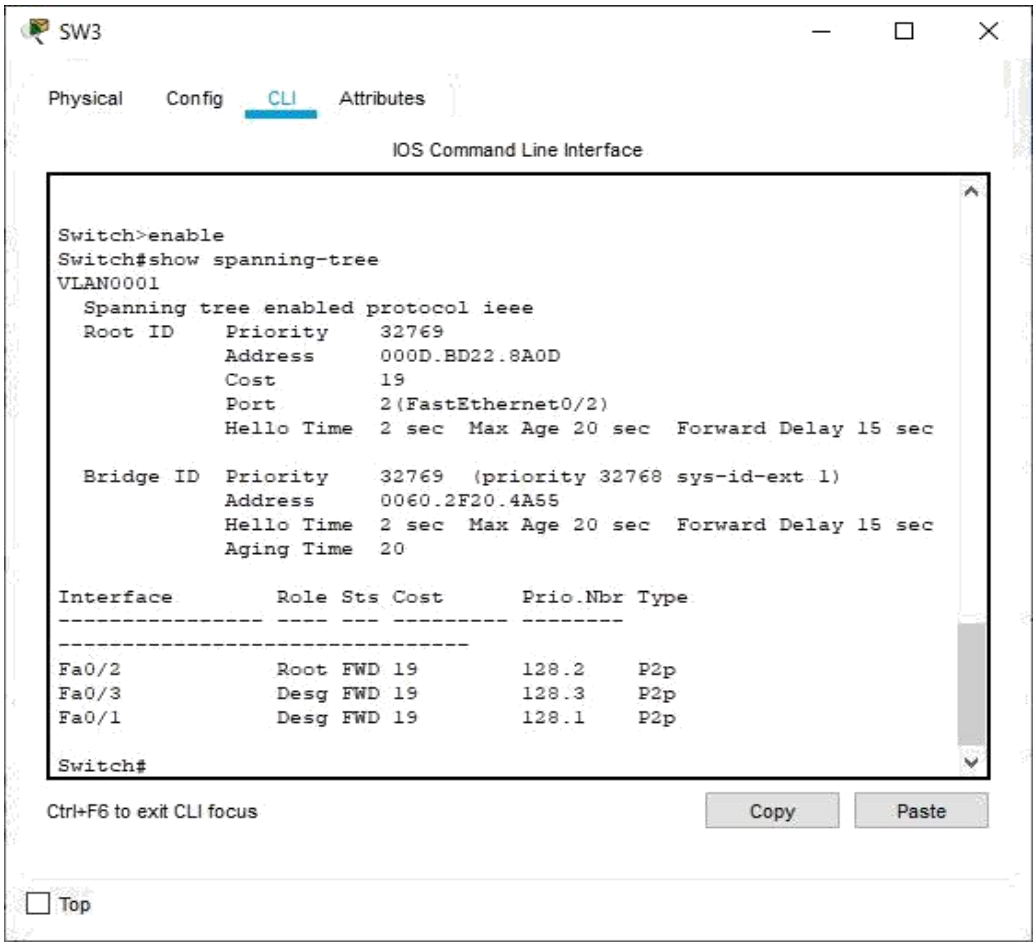



VI ^9^
Physical
CDnfig
E'esf:Icp
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
O DHtP
@ static
IP Address
172.21.1.3
Subnet Mask
255.255.255.0
Defau# Gatew ay
0}0.O
ONS Server
000.0
IPv6 Configuration
O DHCP
O Autn Config
@ Static
IPv6 Address
Link LDcalAddress
FE80::202:4AFF:FE3B:BCD0
IPv6 GatewBy
IPv6 ONS Server
B02.1X
Use 802.1X Security

4A :


SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
% Invalid input detected at '^' marker.
Switch>enable
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 000D.BD22.8A0D
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 00D0.9755.351E
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 Altn BLK 19 128.3 P2p
Fa0/1 Desg FWD 19 128.1 P2p
Switch#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


SW2
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 000D.BD22.8A0D
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 000D.BD22.8A0D
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
Copy
Paste
Top



4B :

SW1

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0001.9633.4035
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

SW2

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0003.E4C0.6B85
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

SW3

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	00E0.8F44.52D6
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

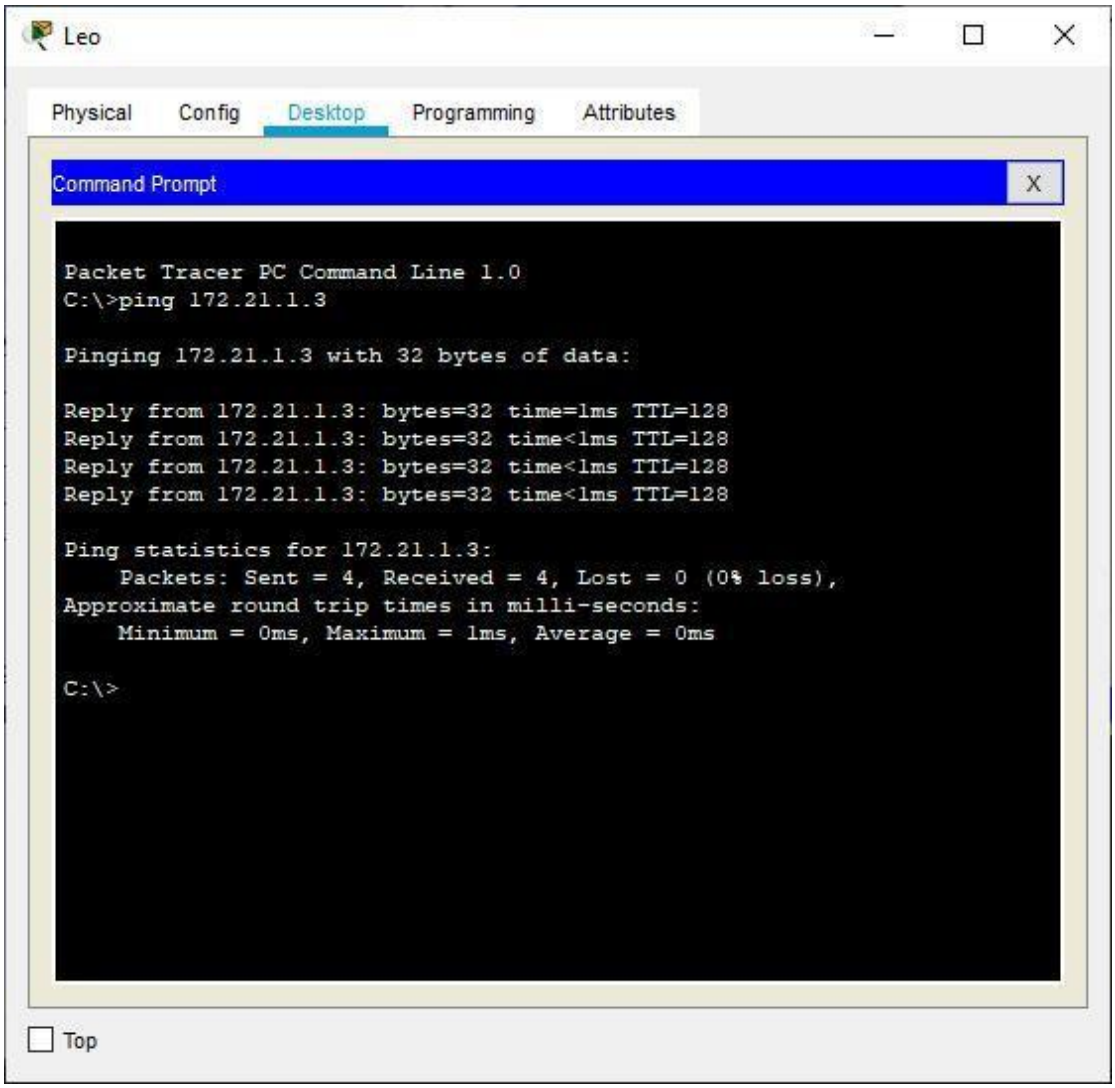
4C :

Root bridge	= Switch SW2
Designated bridge	= Switch SW1 dan Switch SW3
Root port	= 2(FastEthernet0/2)
Designated port	= 1(FastEthernet0/1) dan 3(FastEthernet0/3)

4D :

Forwarding	= 1(FastEthernet0/1) dan 2(FastEthernet0/2)
Blocking	= 3(FastEthernet0/3)

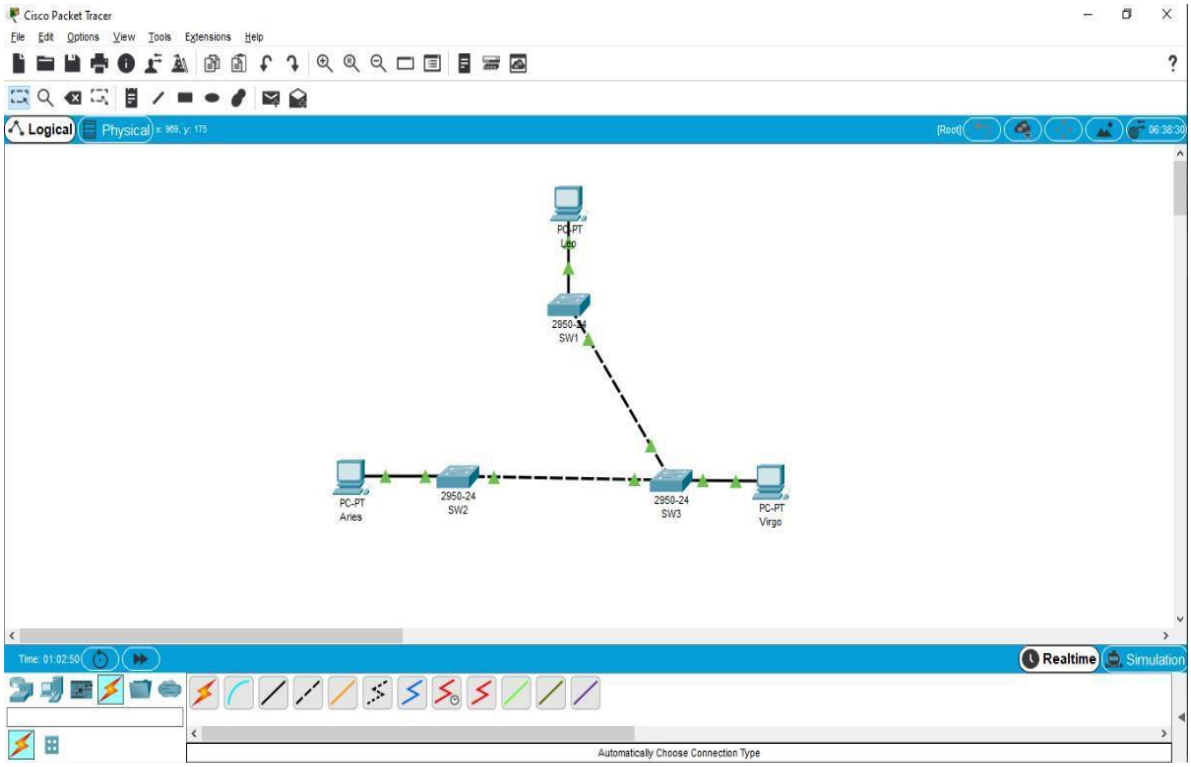
5A : klik PC Leo lalu klik tab desktop lalu pilih command prompt, masukkan ping 172.21.1.3.

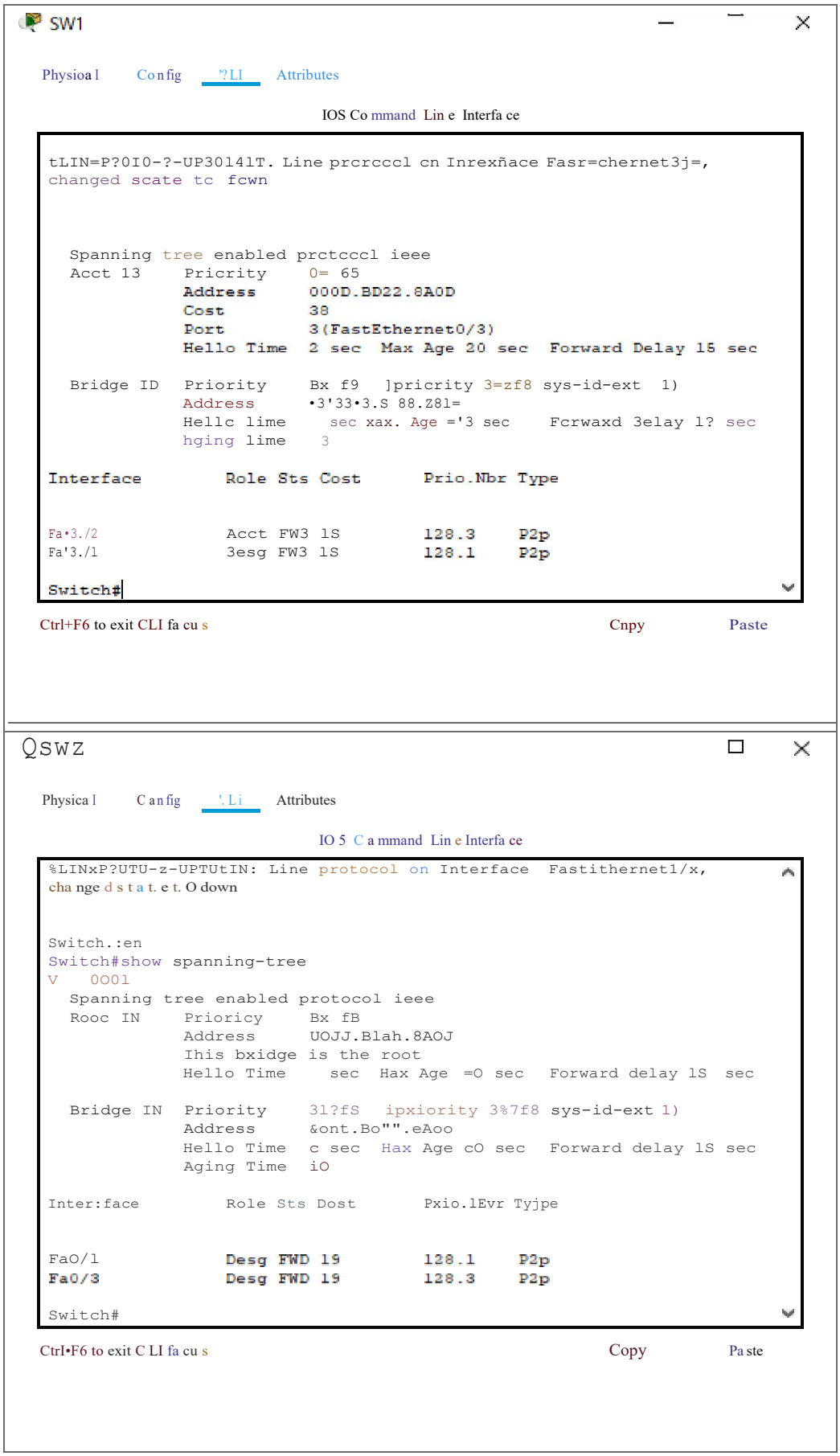


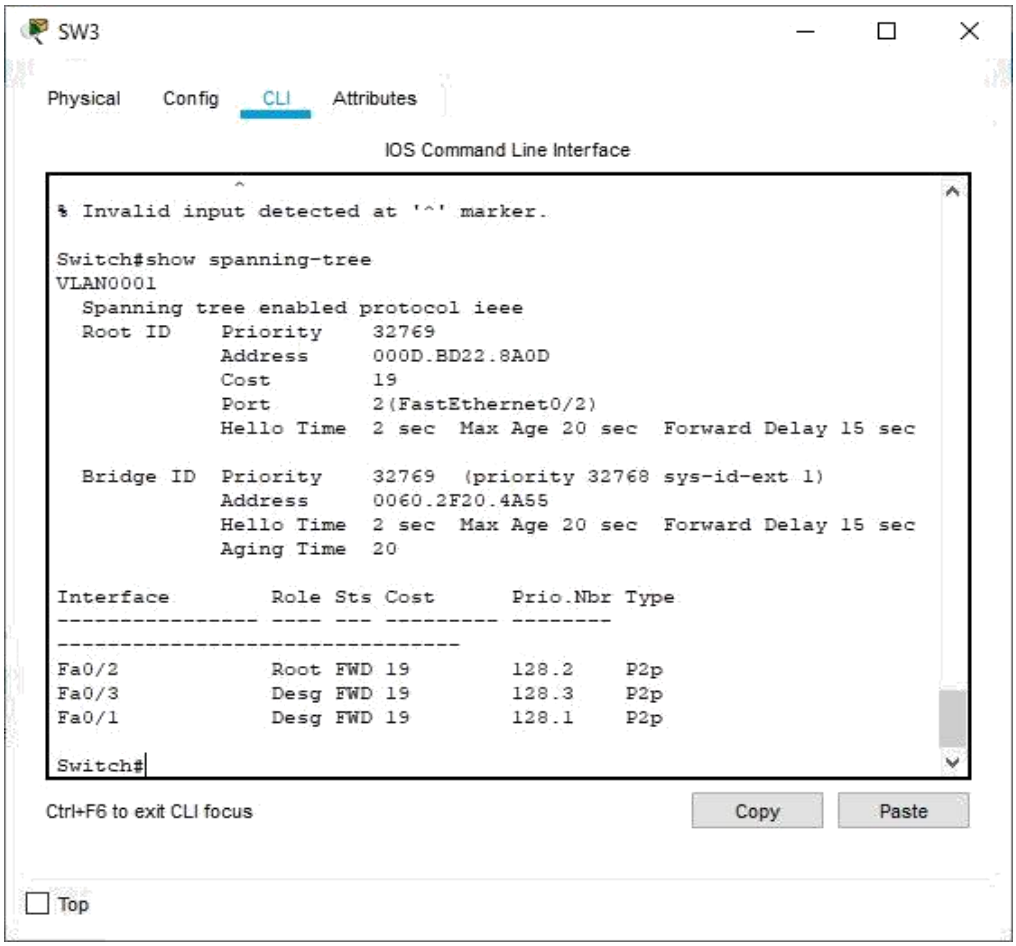
6A :

SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started.
Switch>en
Switch#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Switch#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

Kegiatan 2. Topologi 2




SW1
Physioa l
Co n fig
'?LI
Attributes
IOS Co mmand Lin e Interfa ce
tLIN=P?0I0-?-UP30l4lT. Line prcrcccl cn Inrexñace Fasr=chernet3j=,
changed scate tc fcwn
Spanning tree enabled prctcccl ieee
Acct 13 Pricrity 0= 65
Address 000D.BD22.8A0D
Cost 38
Port 3(FastEthernet0/3)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority Bx f9]pricrity 3=zf8 sys-id-ext 1)
Address •3'33•3.S 88.Z81=
Hellc lime sec xax. Age ='3 sec Fcrwaxd 3elay l? sec
hging lime 3
Interface Role Sts Cost Prio.Nbr Type
Fa•3./2 Acct FW3 lS 128.3 P2p
Fa'3./l 3esg FW3 lS 128.1 P2p
Switch#
Ctrl+F6 to exit CLI fa cu s
Cnpy
Paste
QSWZ
Physica l
C a n fig
'. L i
Attributes
IO 5 C a mmand Lin e Interfa ce
%LINxP?UTU-z-UPTUtIN: Line protocol on Interface Fastithernet1/x,
cha nge d s t a t. e t. O down
Switch.:en
Switch#show spanning-tree
V 0O01
Spanning tree enabled protocol ieee
Rooc IN Prioricy Bx fB
Address UOJJ.Blah.8AOJ
Ihis bxidge is the root
Hello Time sec Hax Age =O sec Forward delay lS sec
Bridge IN Priority 3l?fS ipxiority 3%7f8 sys-id-ext 1)
Address &ont.Bo"".eAoo
Hello Time c sec Hax Age cO sec Forward delay lS sec
Aging Time iO
Inter:face Role Sts Dost Pxio.lEvr Tyjpe
FaO/l Desg FWD 19 128.1 P2p
Fa0/3 Desg FWD 19 128.3 P2p
Switch#
Ctrl•F6 to exit C LI fa cu s
Copy
Pa ste



SW1

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0001.9633.4035
4	Bridge ID	
5	Cost(0/2;0/3)	19/19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	0003.E4C0.6B85
4	Bridge ID	
5	Cost(0/2;0/3)	19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	Mac Address	00E0.8F44.52D6
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 SW2
Designated bridge = Switch SW1 dan Switch SW3
Root port = SW1: Fa0/3, SW3: Fa0/2
Designated port = SW1: Fa0/1, SW2 & SW3: Fa0/1, Fa0/3

Forwarding = 1(FastEthernet0/1), 2(FastEthernet0/2), 3(FastEthernet0/3)
Blocking = -