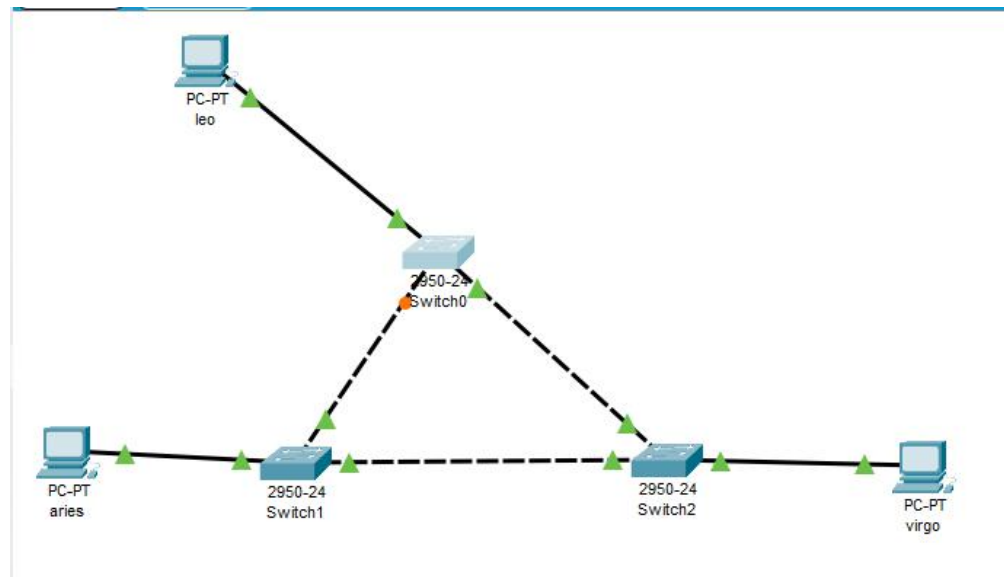Nama : Sevtika Ichitia

NIM : L200180158

Modul 6

Kegiatan 1

Tugas 1A

Pertama kita beri 3 Switch 2950-24 lalu kita beri masing-masing PC per Switch dan sambungkan antar peripheral dengan media transmisi kabel.

Tugas 2A

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

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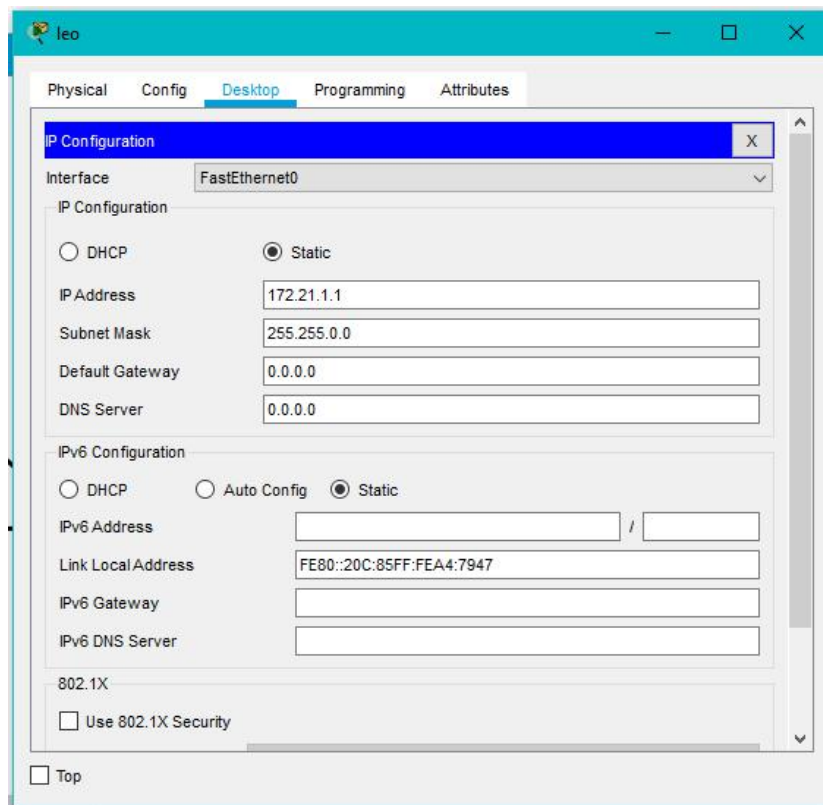SW2(config)#end

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

Konfigurasi masing-masing PC

aries

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration [X]

Interface   FastEthernet0   ⌄

IP Configuration

○ 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::202:16FF:FE72:24BD

IPv6 Gateway   [   ]

IPv6 DNS Server   [   ]

802.1X

☐ Use 802.1X Security

☐ Top

---

virgo

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration [X]

Interface   FastEthernet0   ⌄

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   [   ] / [   ]

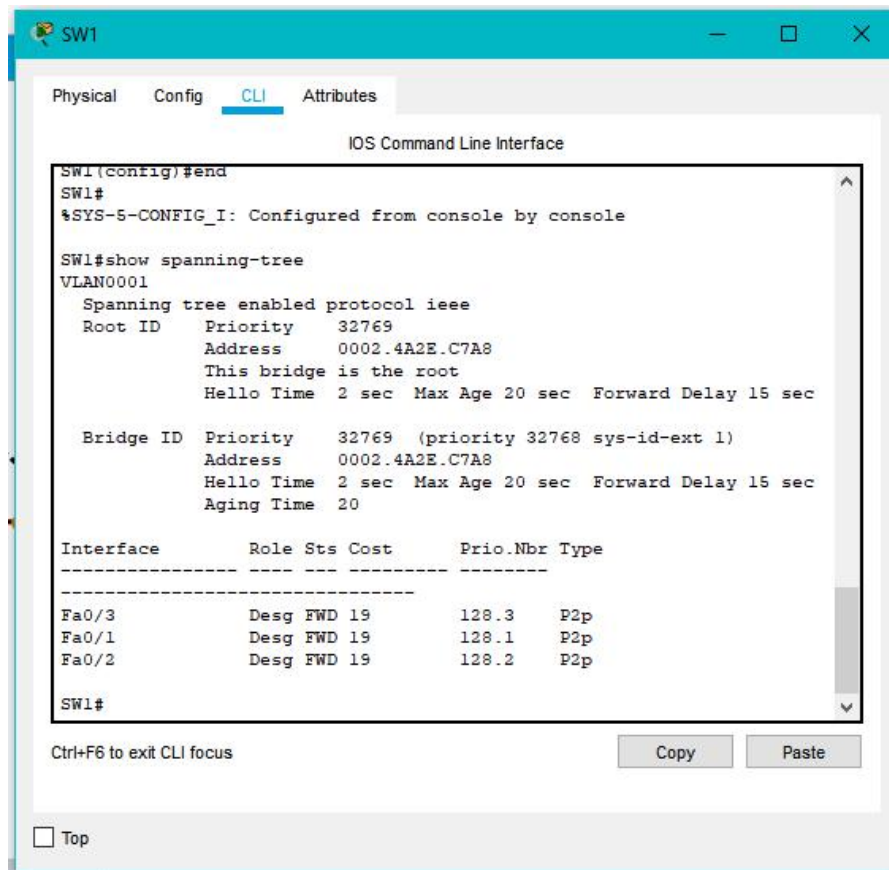Link Local Address FE80::2E0:F9FF:FE8E:14A1

IPv6 Gateway   [   ]

IPv6 DNS Server   [   ]

802.1X

☐ Use 802.1X Security

☐ Top

Mode privileged

SW1 — □ ×

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
SW1(config)#end
SW1#
%SYS-5-CONFIG_I: Configured from console by console

SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0002.4A2E.C7A8
             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     0002.4A2E.C7A8
             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

SW1#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

☐ Top

SW2

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
SW2#
%SYS-5-CONFIG_I: Configured from console by console

SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0002.4A2E.C7A8
             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     0090.21B1.5DDE
             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            Desg FWD 19          128.3    P2p

SW2#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

☐ Top

SW3

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
SW3#
%SYS-5-CONFIG_I: Configured from console by console

SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0002.4A2E.C7A8
             Cost        19
             Port        1(FastEthernet0/1)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address     00D0.FF22.93D1
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

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

SW3#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

☐ Top

Tugas 4B

SW1

No.	Varaibel	Nilai
1	Root ID	0002.4A2E.C7A8
2	Priority	32769
3	MAC Adrress	0002.4A2E.C7A8
4	Bridge ID	0002.4A2E.C7A8
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.	Varaibel	Nilai
1	Root ID	0002.4A2E.C7A8
2	Priority	32769
3	MAC Adrress	0009.21B1.5DDE
4	Bridge ID	0009.21B1.5DDE
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.	Varaibel	Nilai
1	Root ID	0002.4A2E.C7A8
2	Priority	32769
3	MAC Adrress	00D0.FF22.93D1
4	Bridge ID	00D0.FF22.93D1
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

Tugas 4C

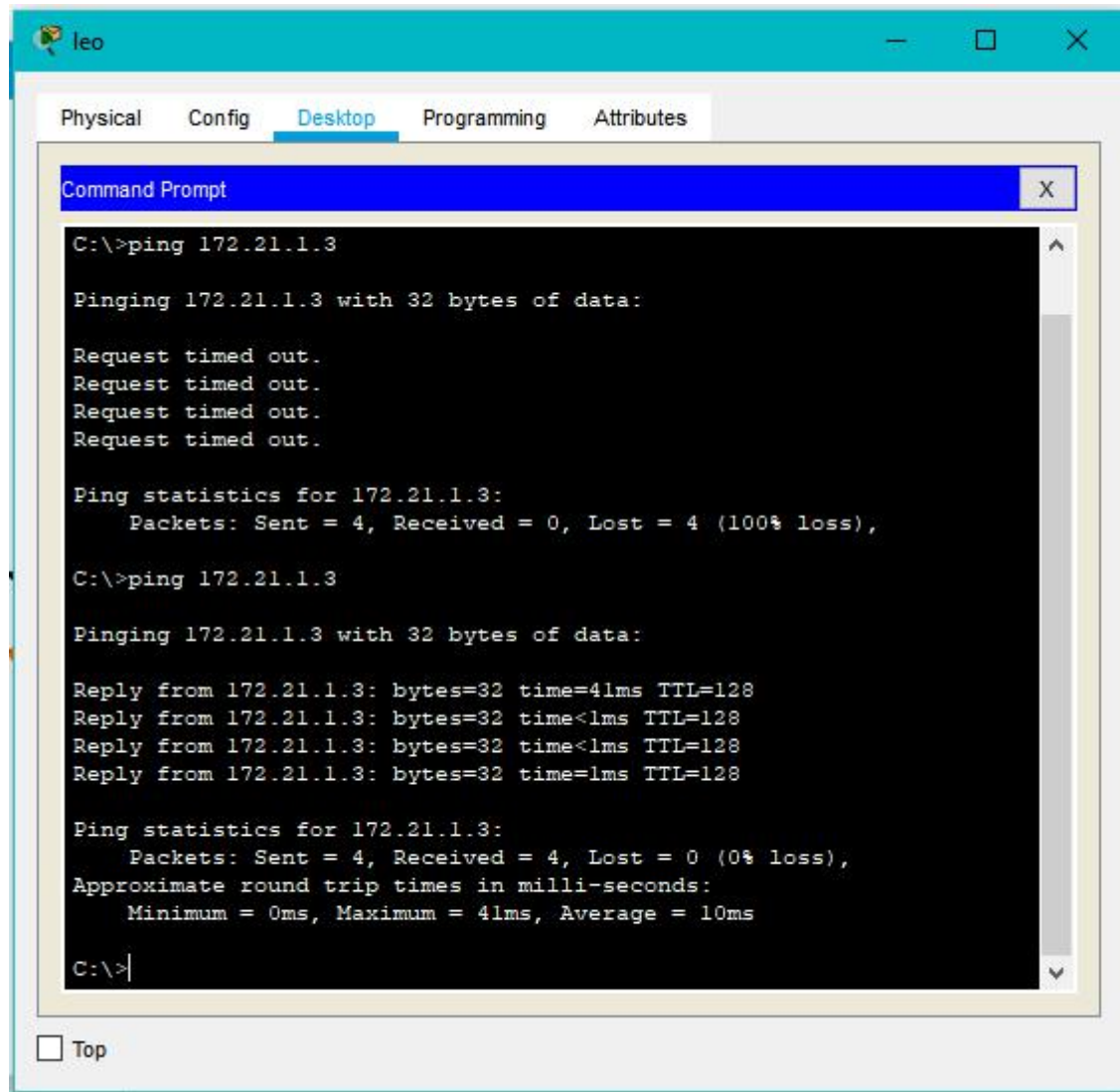Root bridge : SW3

Designated bridge : SW2

Root port : SW1 (Fa0/2), SW2(Fa0/2)

Designated port : SW1(Fa0/1) , SW2(Fa0/1;Fa0/3), SW3(Fa0/1;Fa0/2;Fa0/3)

Tugas 4D

Forwarding : SW1(Fa0/1;Fa0/2), SW2(Fa0/1;Fa0/2;Fa0/3), SW3 Fa0/1;Fa0/2;Fa0/3)

Blocking : SW1(Fa0/3)

Tugas 5A

Masuk ke PC leo >> Desktop >> Command Prompt
Lalu ketik "ping 172.21.1.3"

Tugas 6A

SW1

SW1>en

SW1#write

Building configuration...

[OK]

SW2

SW2>en

SW2#write

Building configuration...

[OK]

SW3

SW3>en
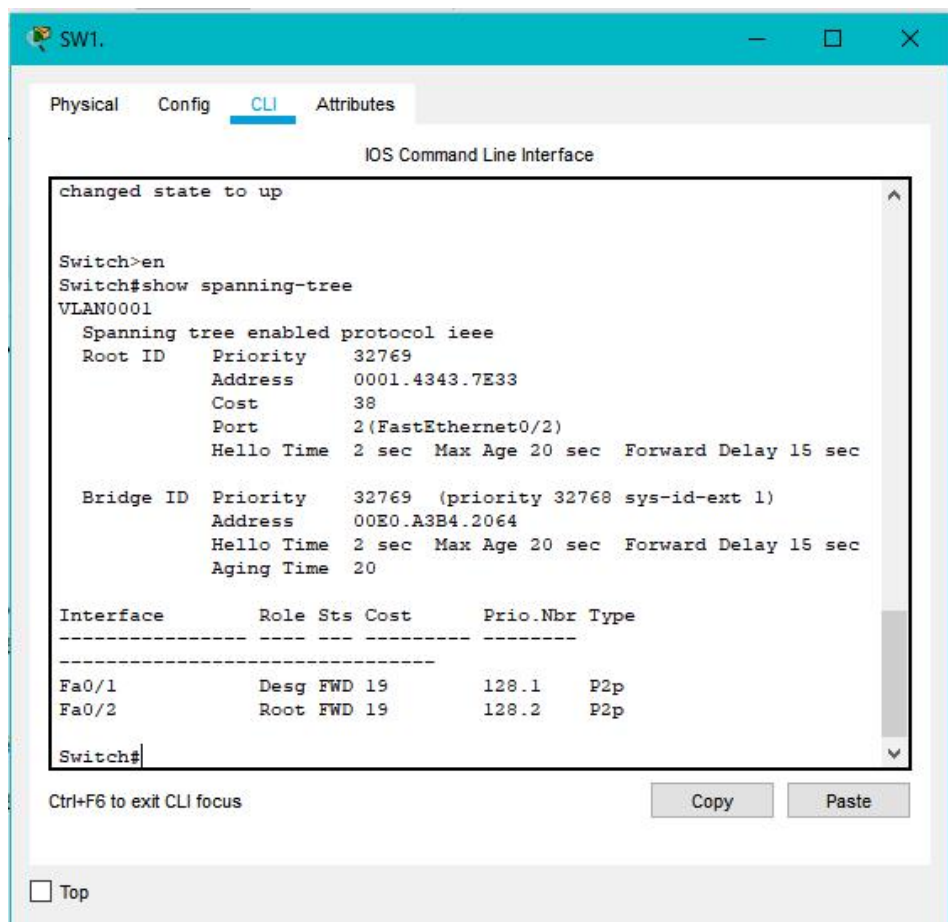
SW3#write

Building configuration...

[OK]

Kegiatan 2

SW2. — □ ✕

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Switch>en
Switch#show snapping-tree
              ^
% Invalid input detected at '^' marker.

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.4343.7E33
             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     0001.4343.7E33
             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   Copy   Paste

☐ Top

SW1
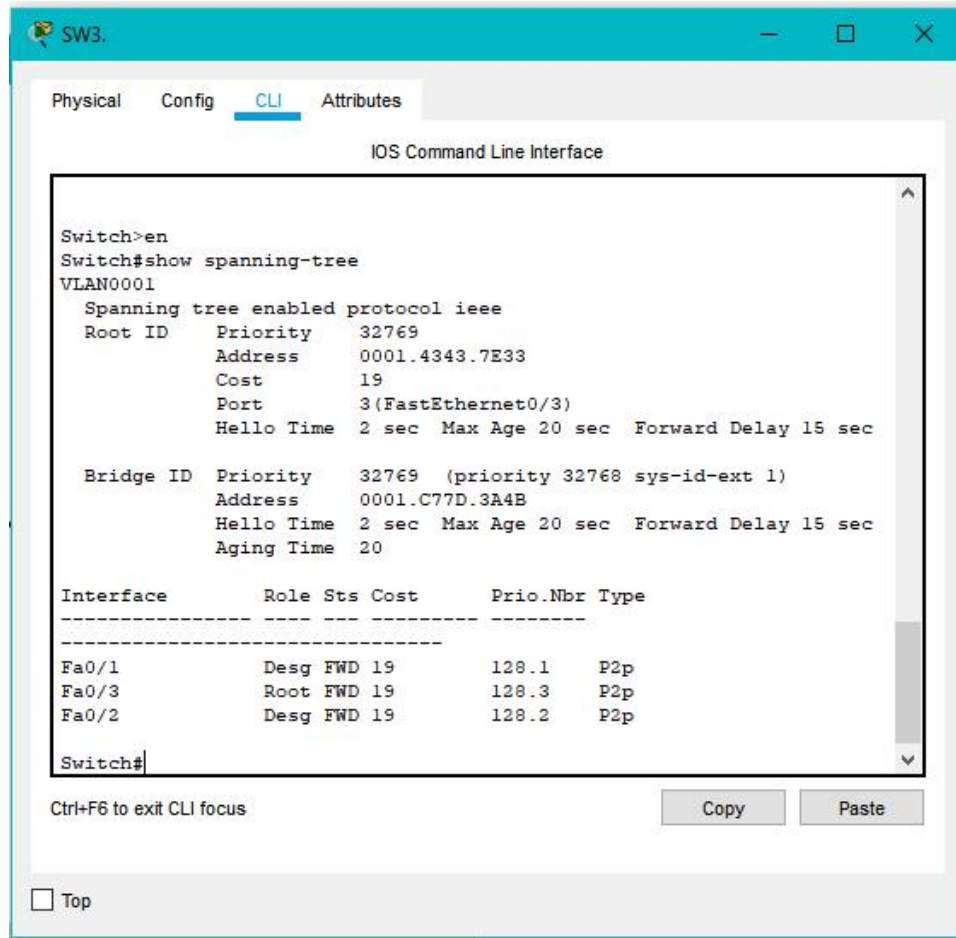
No.	Varaibel	Nilai
1	Root ID	0001.4343.7E33
2	Priority	32769
3	MAC Adrress	00E0.A3B4.2064
4	Bridge ID	00E0.A3B4.2064
5	Cost(0/1;0/2)	19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

No.	Varaibel	Nilai
1	Root ID	0001.4343.7E33
2	Priority	32769
3	MAC Adrress	0001.4343.7E33
4	Bridge ID	0001.4343.7E33
5	Cost(0/1;0/2)	19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No.	Varaibel	Nilai
1	Root ID	0001.4343.7E33
2	Priority	32769
3	MAC Adrress	0001.C77D.3A4B
4	Bridge ID	0001.C77D.3A4B
5	Cost(0/1;0/2)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Menentukan :

Root bridge : SW3

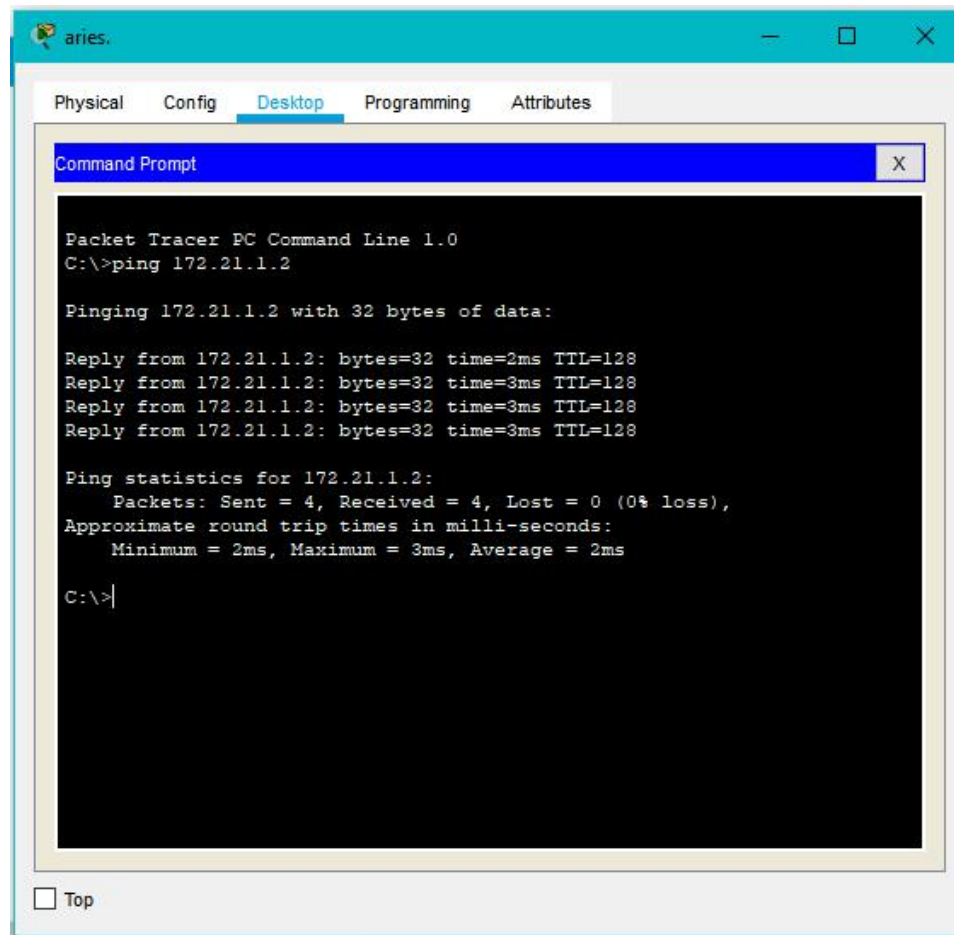Designated bridge : SW2

Root port : SW1 (Fa0/2), SW2(Fa0/2)

Designated port : SW1(Fa0/1), SW2(Fa0/1), SW3(Fa0/1;Fa0/2;Fa0/3)

Menentukan :

Forwarding : SW1(Fa0/1;Fa0/2), SW2(Fa0/1;Fa0/2),SW3(Fa0/1;Fa0/2;Fa0/3)

Blocking : None

Ping PC aries ke PC virgo

Masuk ke PC aries >> Desktop >> Command Prompt

Lalu ketik "ping 172.21.1.3"

Langkah untuk menyimpan konfigurasi jaringan

SW1

SW1>en

SW1#write

Building configuration...

[OK]

SW2

SW2>en

SW2#write

Building configuration...

[OK]

SW3

SW3>en

SW3#write

Building configuration...

[OK]