

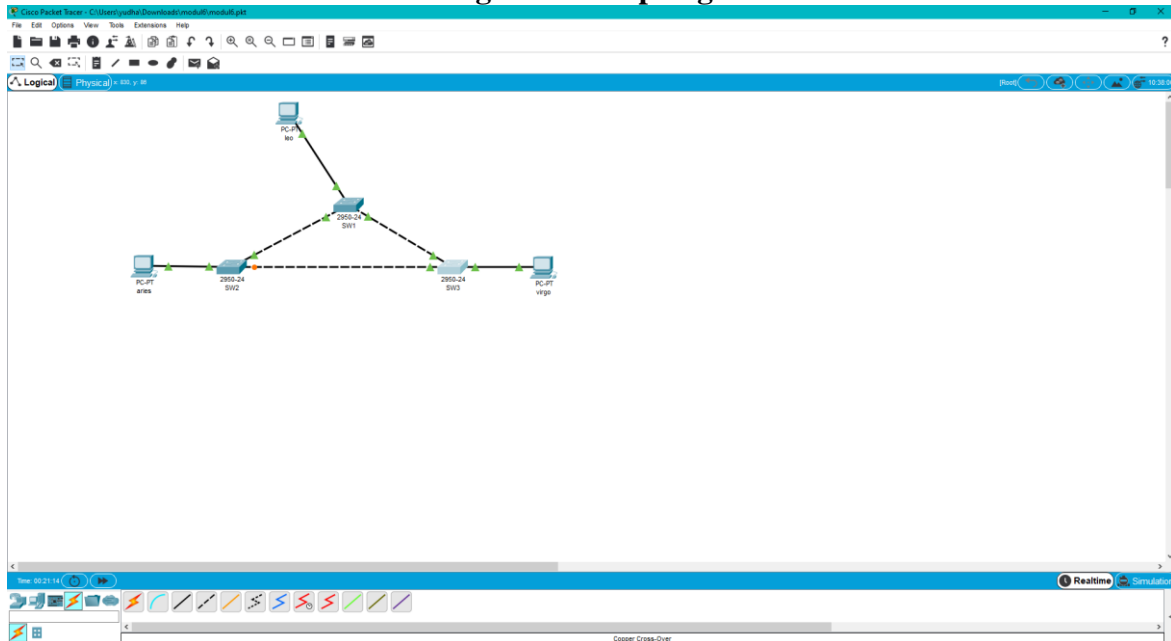
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Kelas : C

Modul 6

Kegiatan 1. Topologi 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:

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

Tugas 4A:

SW1

The screenshot shows the CLI interface of a switch named SW1. The 'CLI' tab is selected. The command history shows the user entering 'en' to enter configuration mode and then 'show spanning-tree' to display the spanning tree information. The output shows that the spanning tree is enabled for VLAN0001, with the root being the switch itself (0040.0B33.4D1A). The bridge ID is also 0040.0B33.4D1A. The interfaces Fa0/1, Fa0/2, and Fa0/3 are all in the 'Desg FWD' state with a cost of 19.

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

SW1>en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0040.0B33.4D1A
             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     0040.0B33.4D1A
             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


SW1#
```

Ctrl+F6 to exit CLI focus

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SW2

 SW2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
SW2>en
SW2#show snipping-tree
^
% Invalid input detected at '^' marker.

SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address     0040.0B33.4D1A
              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     00E0.A3CC.2698
              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          Altn BLK 19        128.3    P2p
Fa0/2          Root FWD 19        128.2    P2p

SW2#
```

Ctrl+F6 to exit CLI focus

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SW3

SW3

Physical Config CLI Attributes

IOS Command Line Interface

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

SW3>en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address     0040.0B33.4D1A
            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     00D0.BC10.D51E
            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              Root FWD 19           128.3   P2p

SW3#
```

Ctrl+F6 to exit CLI focus

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Tugas 4B:**SW1**

No	Variabel	Nilai
1	Root ID	0040.0B33.4D1A
2	Priority	32769
3	Mac Address	0040.0B33.4D1A
4	Bridge ID	0040.0B33.4D1A
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	0040.0B33.4D1A
2	Priority	32769
3	Mac Address	00E0.A3CC.2698
4	Bridge ID	00E0.A3CC.2698
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	0040.0B33.4D1A
2	Priority	32769
3	Mac Address	00D0.BC10.D51E
4	Bridge ID	00D0.BC10.D51E
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 : SW1

Designated bridge : SW3

Root port : SW2 (Fa0/2), SW3(Fa0/3)

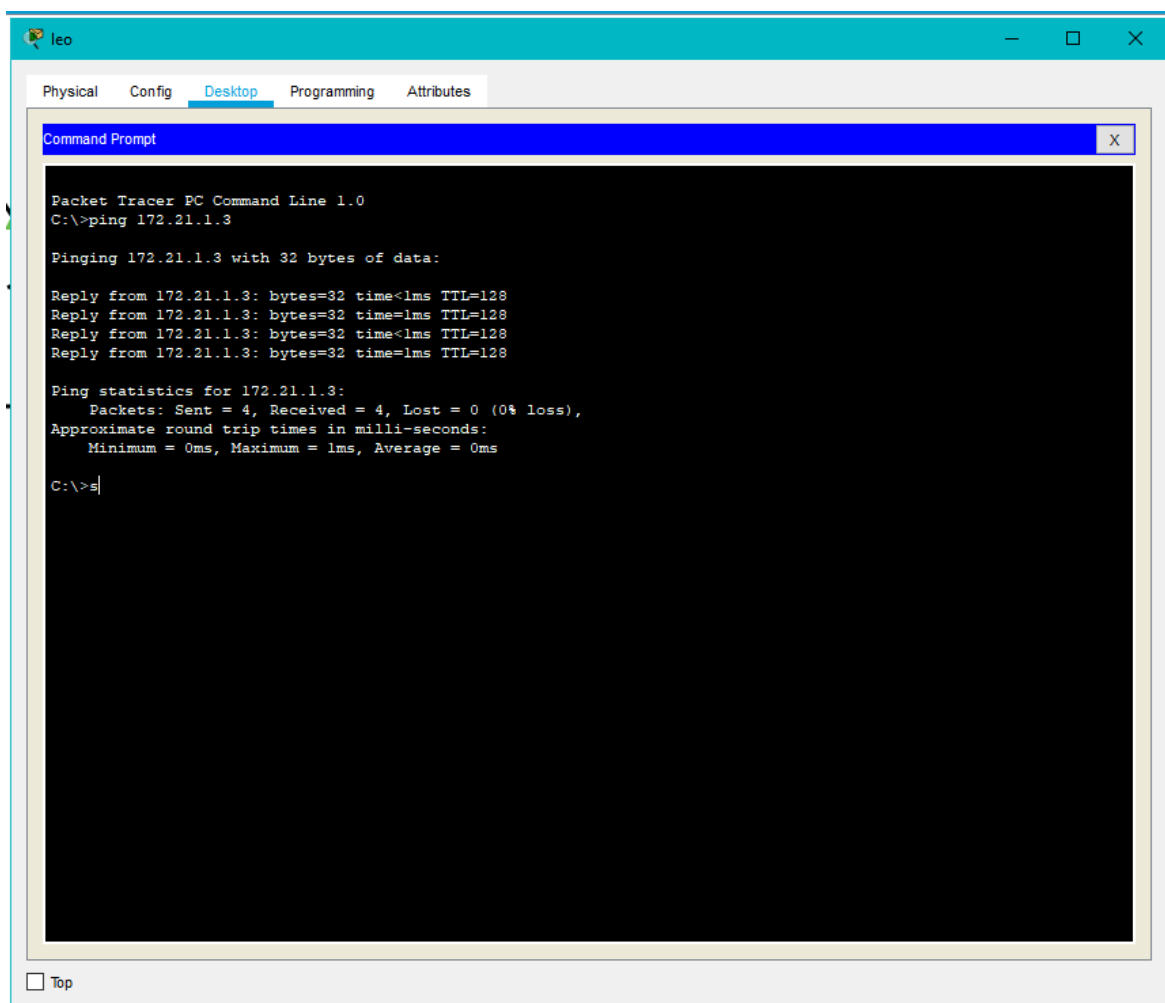
Designated port : SW1(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/1), SW3(Fa0/1;Fa0/3)

Tugas 4D:

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

Blocking : SW2(Fa0/3)

Tugas 5A:



Masuk ke PC >> Desktop >> Command Prompt

Lalu ketik “ping 172.21.1.3”

Tugas 6A:

Lakukan perintah dibawah untuk setiap switch :

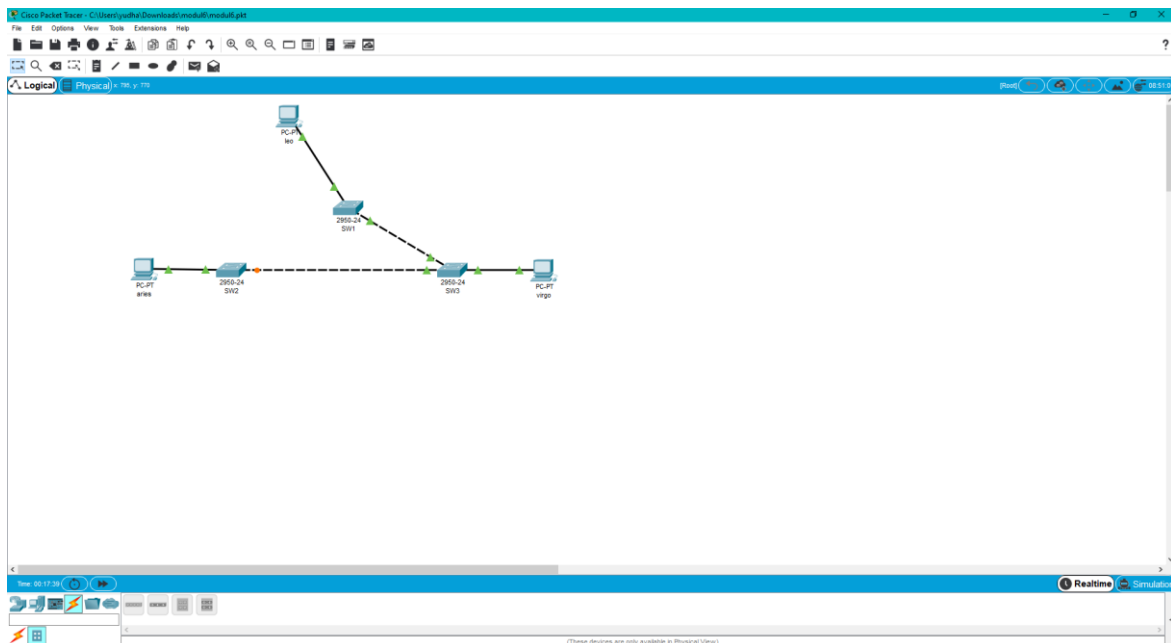
SW1>en

SW1#write

Building configuration...

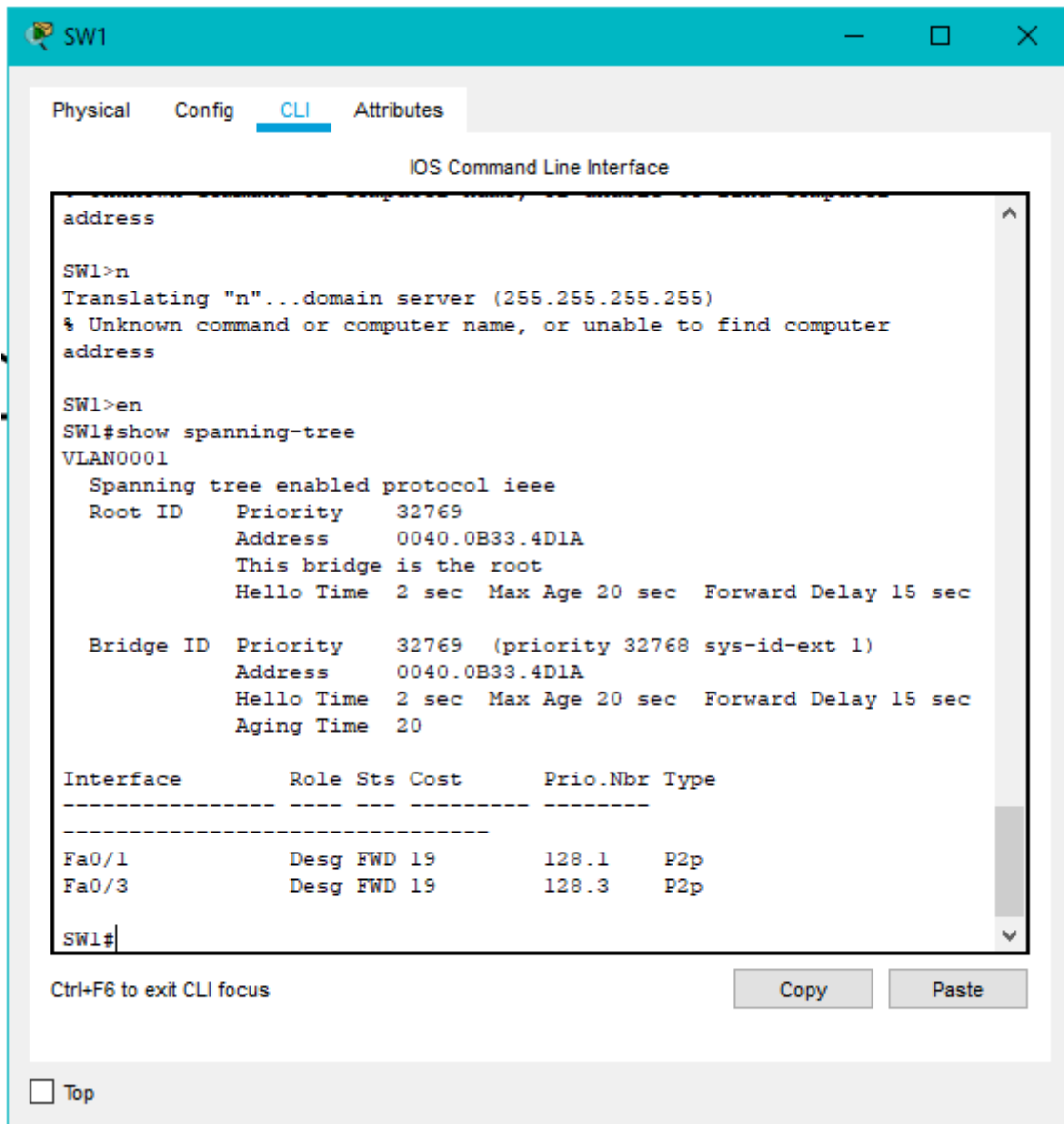
[OK]

Kegiatan 2. Topologi 2



Tugas 9A:

SW1



The screenshot shows the SW1 CLI interface with the following content:

Physical Config **CLI** Attributes

IOS Command Line Interface

```
address

SW1>n
Translating "n"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer
address

SW1>en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0040.0B33.4D1A
             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     0040.0B33.4D1A
             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          Desg FWD 19       128.3    P2p


SW1#
```

Ctrl+F6 to exit CLI focus

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SW2

 SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
SW2>en
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0040.0B33.4D1A
             Cost        38
             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.A3CC.2698
             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


SW2#
```

Ctrl+F6 to exit CLI focus

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SW3

 SW3 — □ ×

Physical Config CLI Attributes

IOS Command Line Interface

```
SW3>en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address    0040.0B33.4D1A
             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    00D0.BC10.D51E
             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          Root FWD 19        128.3    P2p

SW3#
```

Ctrl+F6 to exit CLI focus Copy Paste

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SW1

No	Variabel	Nilai
1	Root ID	0001.9633.4035
2	Priority	32769
3	Mac Address	0001.9633.4035
4	Bridge ID	0001.9633.4035
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	0001.9633.4035
2	Priority	32769
3	Mac Address	0003.E4C0.6B85
4	Bridge ID	0003.E4C0.6B85
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	0001.9633.4035
2	Priority	32769
3	Mac Address	00E0.8F44.52D6
4	Bridge ID	00E0.8F44.52D6
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 : SW1

Designated bridge : SW3

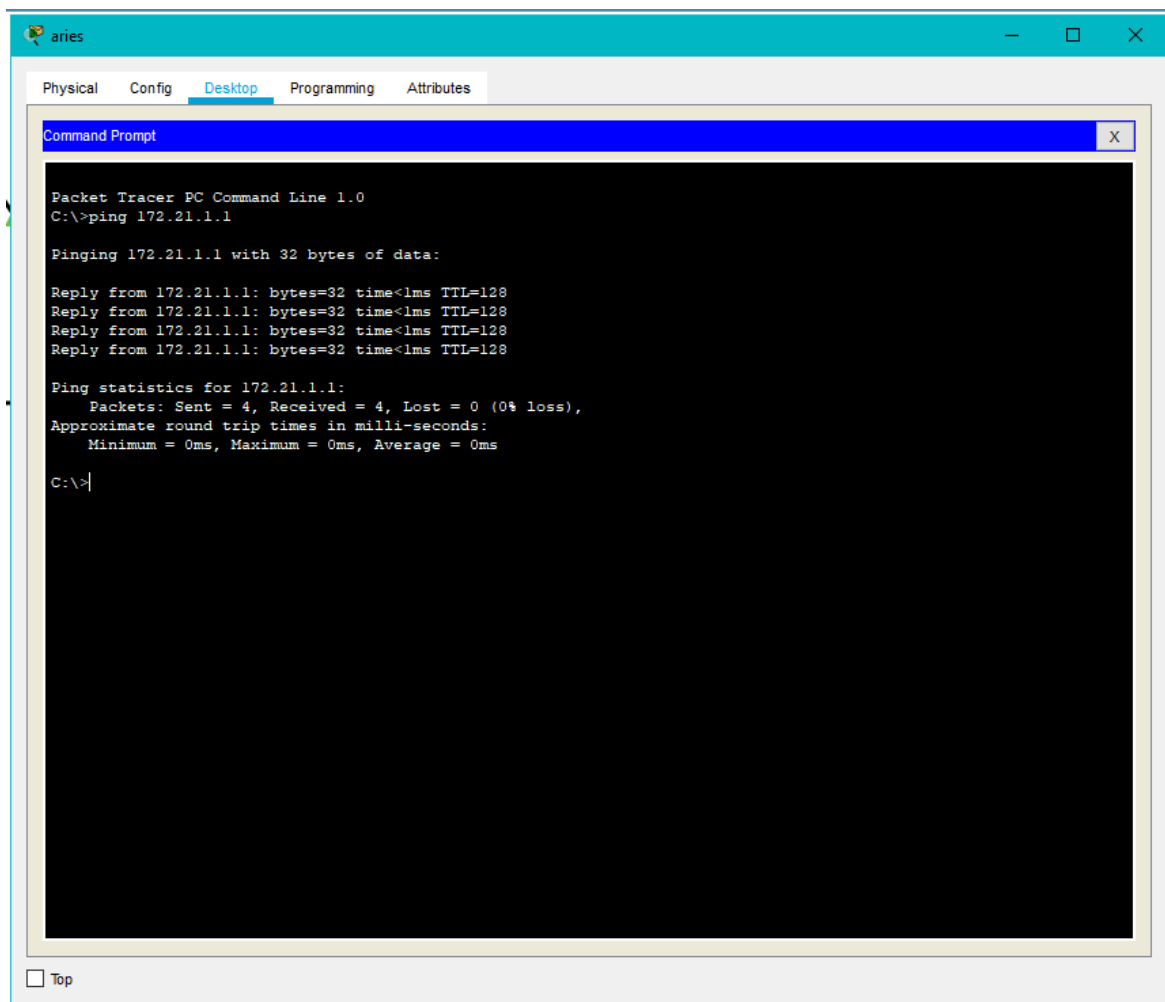
Root port : SW2 (Fa0/3), SW3(Fa0/3)

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

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

Blocking : None

Tugas 5A:



Masuk ke PC >> Desktop >> Command Prompt

Lalu ketik “ping 172.21.1.1”

Tugas 6A:

Lakukan perintah dibawah untuk setiap switch :

SW1>en

SW1#write

Building configuration...

[OK]