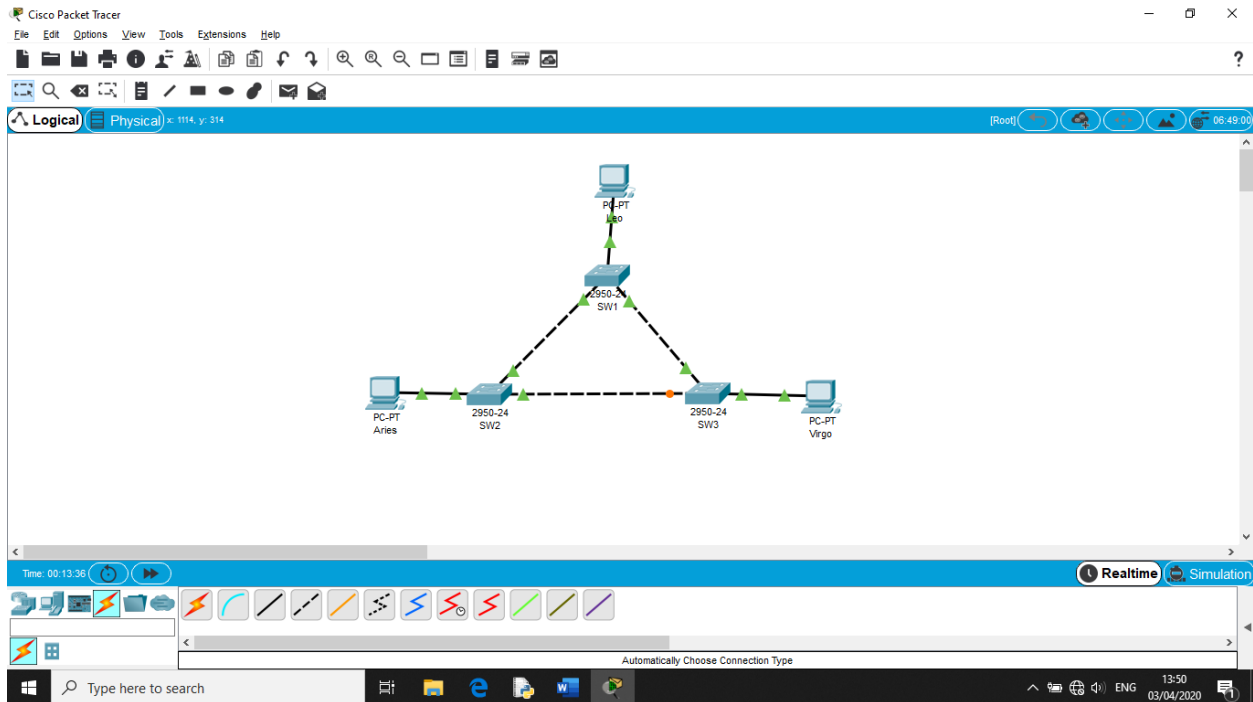


Nama : Pasha Bhimasty

NIM : L200180123

Modul : 6

Topologi 1



Tugas 1A: Tulis langkah pembuatan topologi

1. Tambahkan 3 buah Switch Catalyst 2950
2. Ganti nama pada switch menjadi SW1, SW2, dan SW3
3. Tambahkan 3 buah PC
4. Hubungkan PC dengan switch
5. Hubungkan switch dengan switch

Tugas 2A: Tulis langkah pemberian nama switch mulai dari *mode user*

SW1 :

```
Switch#enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW1
SW1(config)#end
SW1#
%SYS-5-CONFIG_I: Configured from console by console
```

SW2 :

```
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#end
SW2#
%SYS-5-CONFIG_I: Configured from console by console
```

SW3 :

```
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#ens
^
% Invalid input detected at '^' marker.

SW3(config)#end
SW3#
%SYS-5-CONFIG_I: Configured from console by console
```

Tugas 4A: Capture status STP switch

The screenshot shows the Cisco Packet Tracer interface with a switch (SW1) selected. The CLI window displays the following configuration and status information:

```
SW1#
SW1#
SW1#
SW1#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    0009.7C80.6947
           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    0009.7C80.6947
           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+F8 to exit CLI focus

Copy Paste

Time: 09:27:50

Realtime Simulation

Automatically Choose Connection Type

Type here to search

14:04 03/04/2020

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1000, y: 286

SW2

Physical Config CLI Attributes

IOS Command Line Interface

```
SW2#
$SYS-S-CONFIG_I: Configured from console by console
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0009.7C80.6947
              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    0010.11C9.6EC7
              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
Fa0/2          Root FWD 19       128.2   P2p
Fa0/1          Desg FWD 19       128.1   P2p
SW2#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:23:48

Realtime Simulation

Automatically Choose Connection Type

Type here to search

14:05 03/04/2020

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1000, y: 207

SW3

Physical Config CLI Attributes

IOS Command Line Interface

```
SW3#
$SYS-S-CONFIG_I: Configured from console by console
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0009.7C80.6947
              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    0060.476E.B129
              Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
              Aging Time  20

Interface      Role Sts Cost      Prio.Nbr Type
-----
Fa0/2          Altn BLK 15       128.2   P2p
Fa0/3          Root FWD 19       128.3   P2p
Fa0/1          Desg FWD 19       128.1   P2p
SW3#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:29:14

Realtime Simulation

Automatically Choose Connection Type

Type here to search

14:06 03/04/2020

Tugas 4B: Mengisi Tabel

No.	Variabel	Nilai
1	Root ID	0009.7C80.6947
2	Priority	32769
3	MAC Address	0009.7C80.6947
4	Bridge ID	0009.7C80.6947
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

No.	Variabel	Nilai
1	Root ID	0009.7C80.6947
2	Priority	32769
3	MAC Address	0010.11C9.6EC7
4	Bridge ID	0010.11C9.6EC7
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

No.	Variabel	Nilai
1	Root ID	0009.7C80.6947
2	Priority	32769
3	MAC Address	0060.476E.B129
4	Bridge ID	0060.476E.B129
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:

Rootbridge : SW1

Designatedbridge : SW2

Rootport : SW2 (Fa0/3), SW3 (Fa0/3)

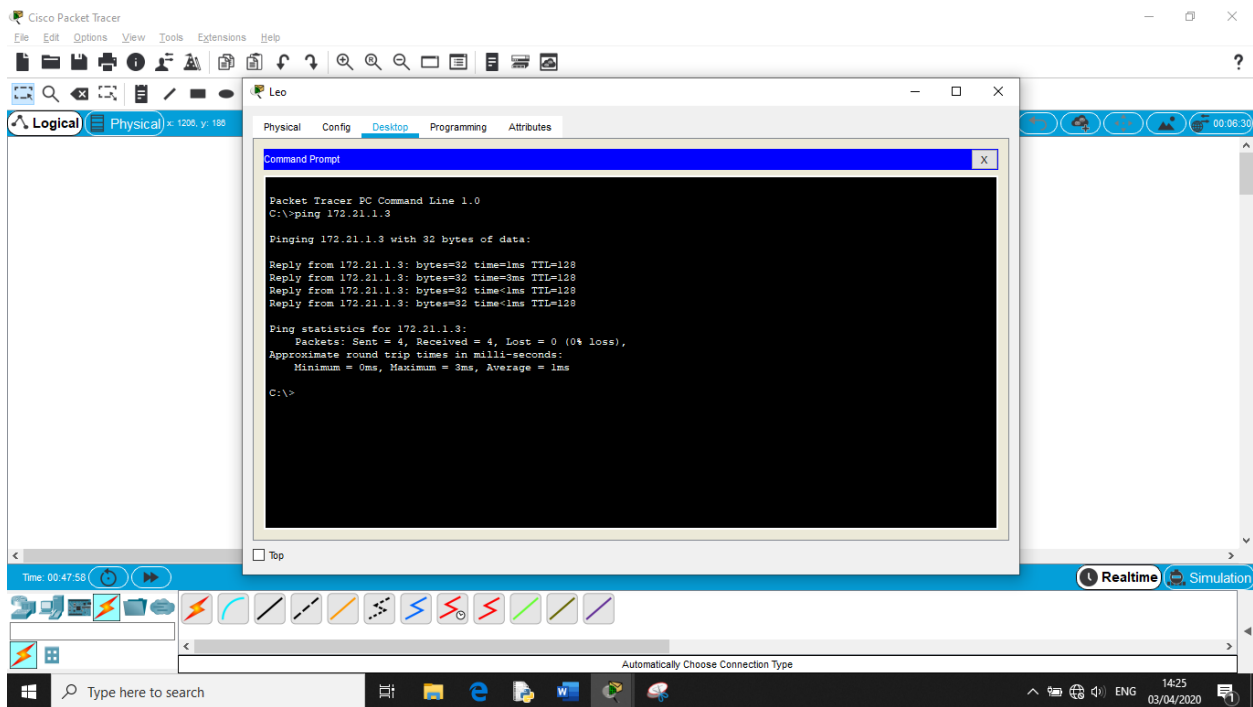
Designatedport : SW1 (Fa0/1; Fa0/2; Fa0/3), SW2 (Fa0/1; Fa0/2), SW3 (Fa0/1)

Tugas 4D:

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

Blocking : SW3 (Fa0/2)

Ping PC Leo ke PC Virgo



Tugas 5A: Tulis langkah untuk melakukan perintah ping

1. Klik pada PC
2. Pilih tab Desktop lalu pilih Command Prompt
3. Ketikkan ping 172.21.1.3

Tugas 6A: Tulis langkah untuk menyimpan konfigurasi jaringan

Lakukan perintah dibawah ini untuk setiap switch

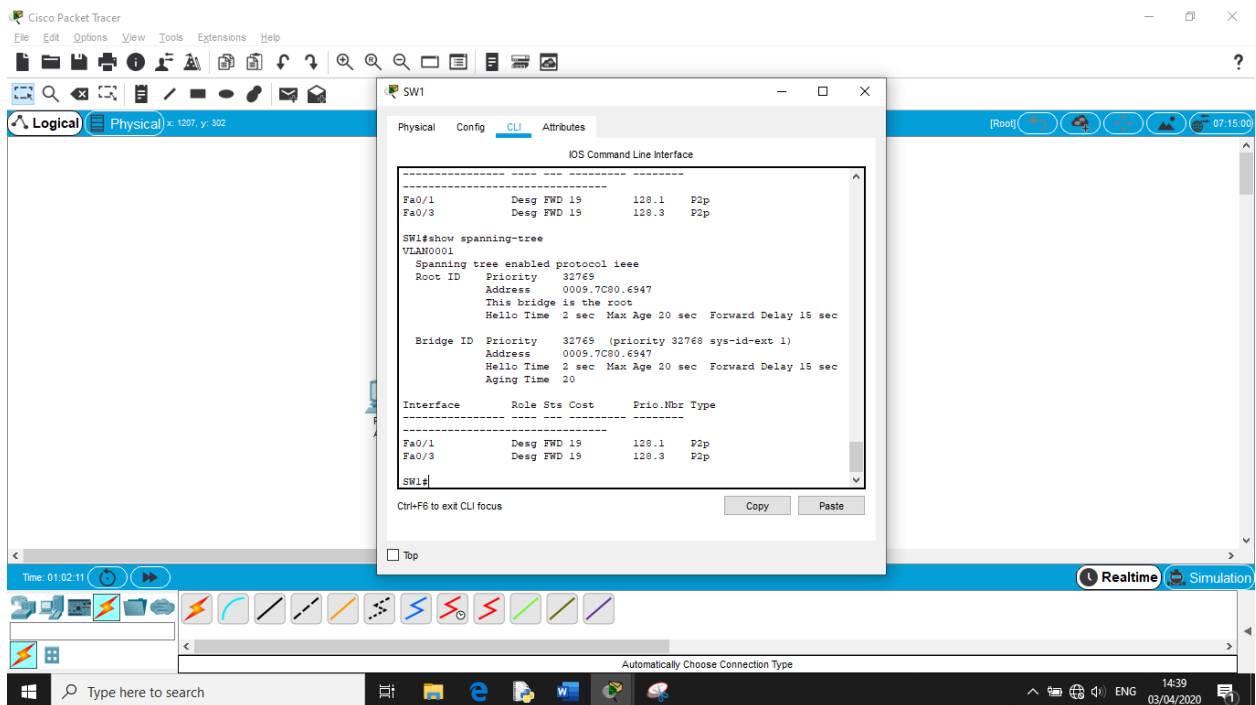
```
SW1>enable
SW1#write
Building configuration...
[OK]
SW1#
```

```
SW2>enable
SW2#write
Building configuration...
[OK]
SW2#
```

```
SW3>enable
SW3#write
Building configuration...
[OK]
SW3#
```

Topologi 2

Tugas 9A:



Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 530, y: 283

SW2

Physical Config CLI Attributes

IOS Command Line Interface

```
$LINEPROTO-6-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to up

SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0009.7C80.6947
              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    0010.11C9.6EC7
              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      120.2   P2p
Fa0/1          Desg FWD 19      120.1   P2p

SW2#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 01:02:38

Realtime Simulation

Automatically Choose Connection Type

Type here to search

14:39 03/04/2020

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1100, y: 290

SW3

Physical Config CLI Attributes

IOS Command Line Interface

```
SW3>enable
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0009.7C80.6947
              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    0060.4762.B129
              Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
              Aging Time  20

Interface      Role Sts Cost    Prio.Nbr Type
-----
Fa0/3          Root FWD 19      120.3   P2p
Fa0/1          Desg FWD 19      120.1   P2p
Fa0/2          Desg FWD 19      120.2   P2p

SW3#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 01:03:06

Realtime Simulation

Automatically Choose Connection Type

Type here to search

14:40 03/04/2020

No.	Variabel	Nilai
1	Root ID	0009.7C80.6947
2	Priority	32769
3	MAC Address	0009.7C80.6947
4	Bridge ID	0009.7C80.6947
5	Cost (0/1 ; 0/3)	19 / 19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

No.	Variabel	Nilai
1	Root ID	0009.7C80.6947
2	Priority	32769
3	MAC Address	0010.11C9.6EC7
4	Bridge ID	0010.11C9.6EC7
5	Cost (0/1 ; 0/2)	19 / 19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

No.	Variabel	Nilai
1	Root ID	0009.7C80.6947
2	Priority	32769
3	MAC Address	0060.476E.B129
4	Bridge ID	0060.476E.B129
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 (Fa0/2), 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; Fa0/2), SW3 (Fa0/1; Fa0/2; Fa0/3)

Blocking : Tidak ada

Ping PC Leo ke PC Virgo

