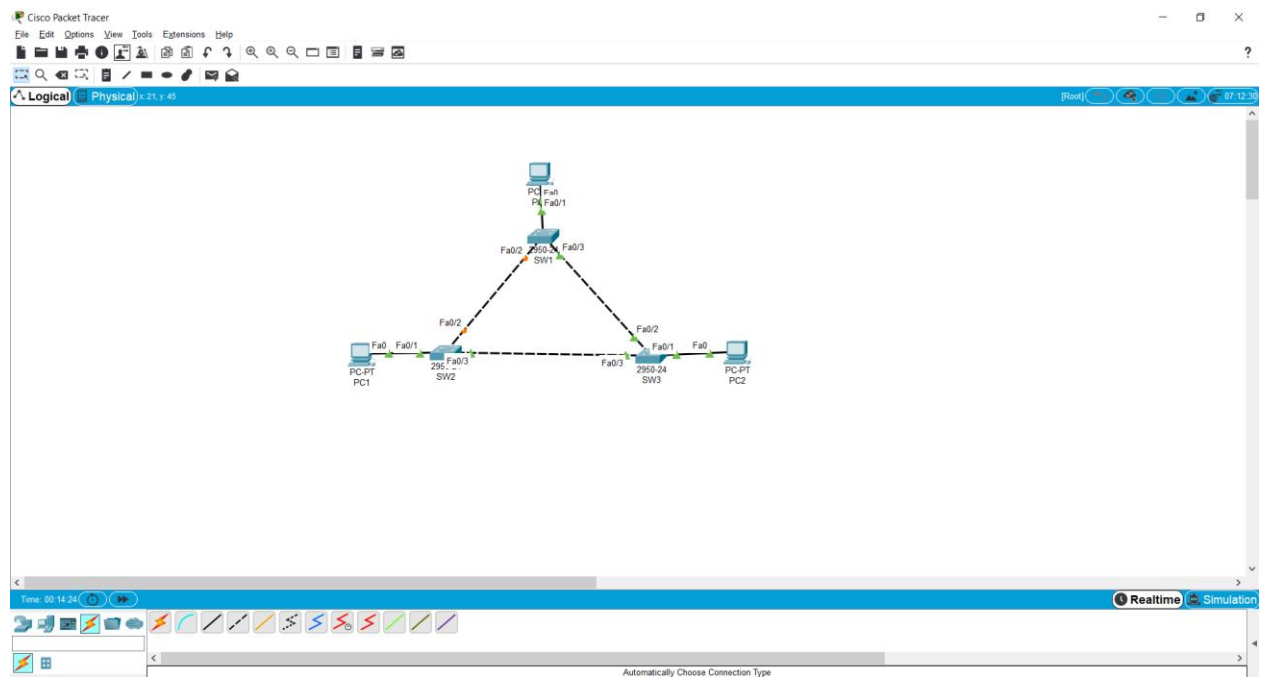


Nama : Naufal Randi aldiansyah

NIM : L200180142

Kegiatan 1

Topologi



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

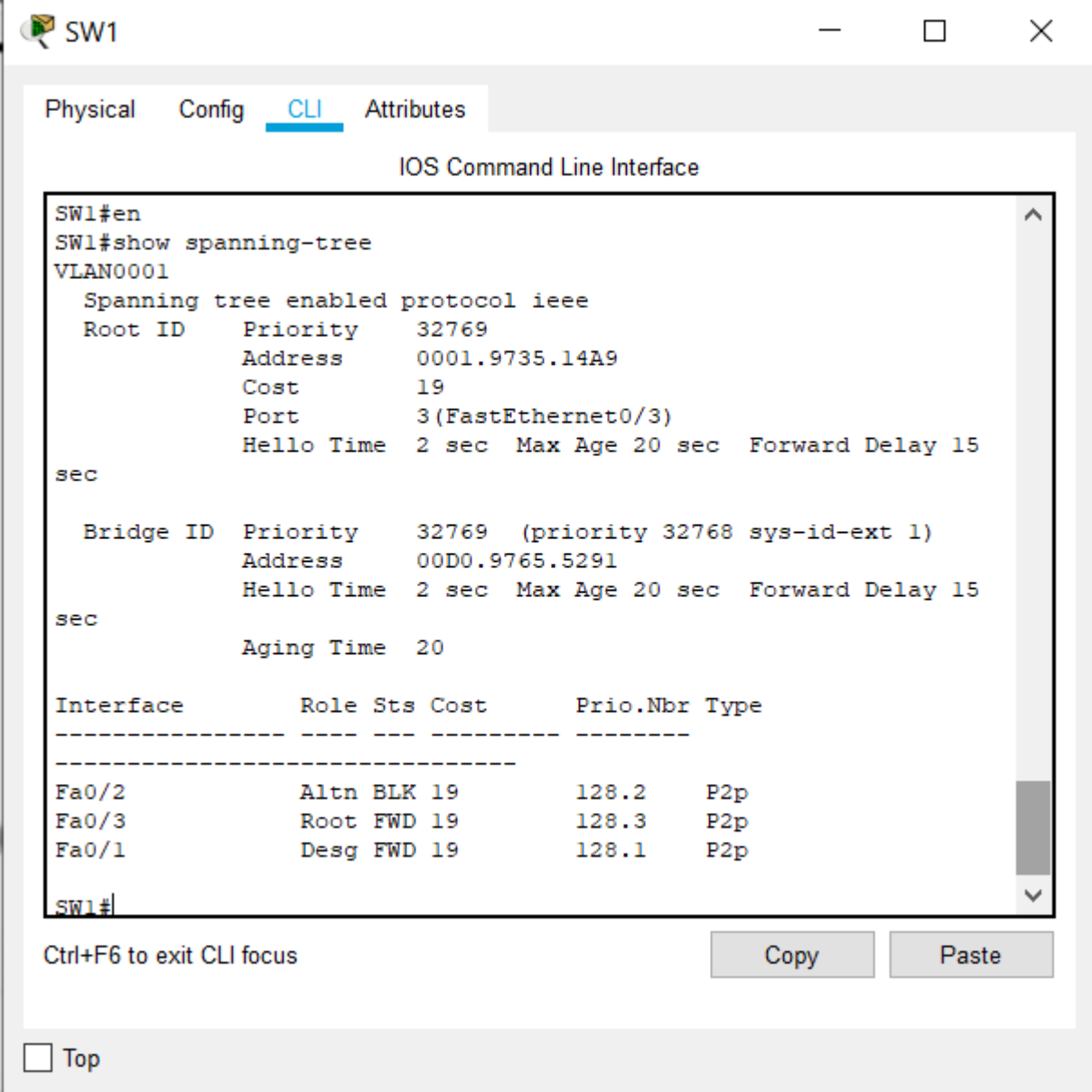
Switch#conf t

Switch(config)#hostname SW1 / SW2 / SW3

SW1(config)#end

Tugas 4A :

SW1



The screenshot shows a window titled "SW1" with tabs for "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is active, displaying the "IOS Command Line Interface". The command prompt is "SW1#". The user has entered "en" to enter enable mode, followed by "show spanning-tree" to view the spanning tree configuration for VLAN0001. The output shows that the spanning tree is enabled with the IEEE protocol. The root ID is 32769 with address 0001.9735.14A9, cost 19, and is connected to port 3 (FastEthernet0/3). The hello time is 2 seconds, max age is 20 seconds, and forward delay is 15 seconds. The bridge ID is also 32769 with address 00D0.9765.5291, and the aging time is 20 seconds. A table at the bottom shows the roles of the interfaces: Fa0/2 is an alternate (Altn) in a blocked (BLK) state, Fa0/3 is the root (Root) in a forwarding (FWD) state, and Fa0/1 is a designated (Desg) in a forwarding (FWD) state. All interfaces have a cost of 19 and are connected to the 128.x.x P2p network.

```
SW1#en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.9735.14A9
             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     00D0.9765.5291
             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 19           128.2    P2p
Fa0/3              Root FWD 19           128.3    P2p
Fa0/1              Desg FWD 19           128.1    P2p

SW1#
```

Ctrl+F6 to exit CLI focus

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SW2

IOS Command Line Interface

```
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.9735.14A9
             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     0002.17E3.292B
             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

SW2#
```

Ctrl+F6 to exit CLI focus

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 SW3

Physical Config CLI Attributes

IOS Command Line Interface

```
*SYS-S-CONFIG_1: Configured from console by console

SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.9735.14A9
             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     0001.9735.14A9
             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          Desg 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	0001.9633.4035
2	Priority	32769
3	Mac Address	0001.9633.4035
4	Bridge ID	0001.9633.4035
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	0001.9633.4035
2	Priority	32769
3	Mac Address	0003.E4C0.6B85
4	Bridge ID	0003.E4C0.6B85
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	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

Tugas 4C:

Root bridge : SW1

Designated bridge : SW2

Root port : SW2 (Fa0/1), SW3(Fa0/1)

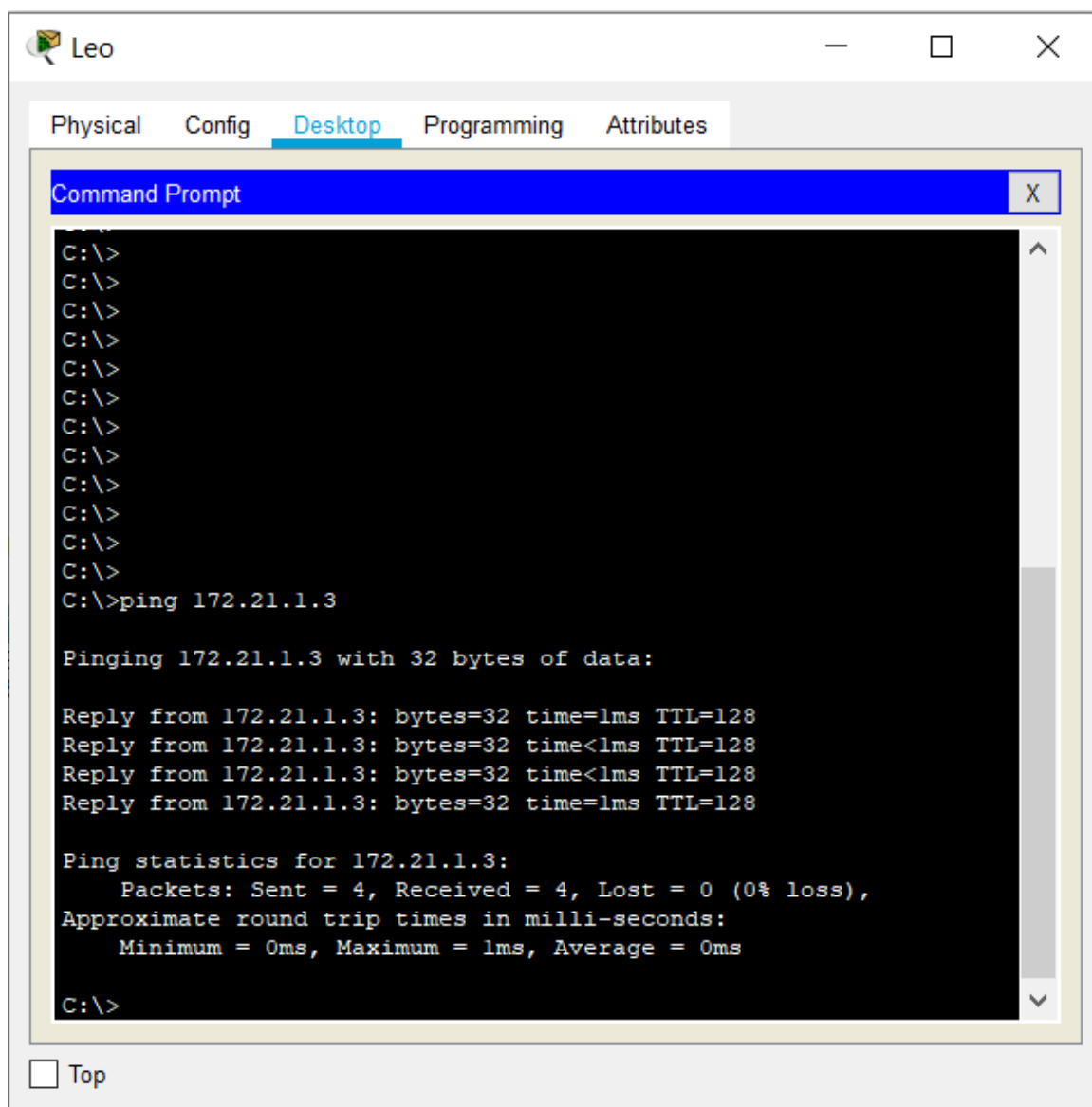
Designated port : SW1(Fa0/1;Fa0/2;Fa0/3), SW2(Fa0/2;Fa0/3), SW3(Fa0/3)

Tugas 4D:

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

Blocking : SW3(Fa0/3)

Tugas 5A :



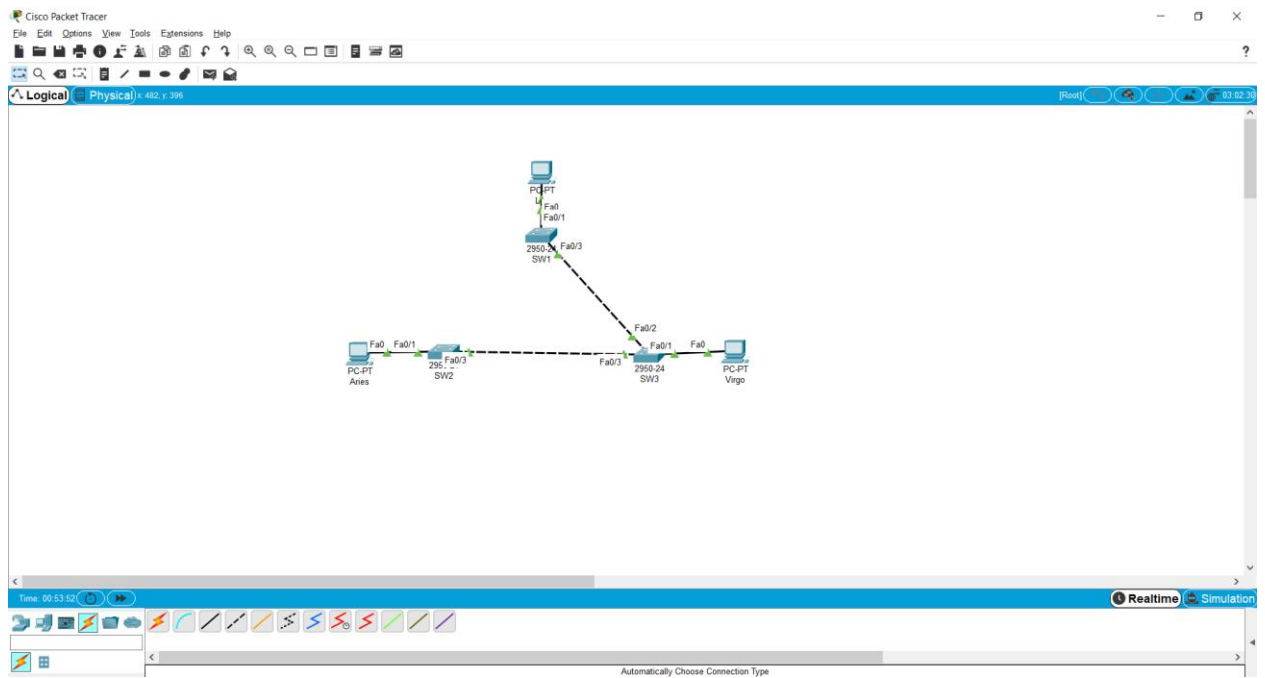
Tugas 6A :

SW > en

SW # write


Kegiatan 2

Topologi



Tugas 9A:

SW1

 SW1

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
SW1>en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.9735.14A9
             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     00D0.9765.5291
             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        128.3    P2p
Fa0/1          Desg FWD 19        128.1    P2p


SW1#
```

Ctrl+F6 to exit CLI focus

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 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     0001.9735.14A9
             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     0002.17E3.292B
             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#
```

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 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     0001.9735.14A9
             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     0001.9735.14A9
             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          Desg FWD 19        128.3    P2p

SW3#
```

Ctrl+F6 to exit CLI focus

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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 (Fa0/1), SW3(Fa0/2)

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

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

Blocking : None

