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Kelas : X

KEGIATAN 1

Tugas 1A:

1. Pilih pada bagian Network Devices → Switches → pilih tipe 2950-24 → letakkan 3 switch
2. Pilih pada bagian End Devices → Generic Computer → letakkan 3 computer
3. Hubungkan dengan kabel. Pilih connections → pilih gambar petir lalu sambungan

Tugas 2A:

→ Switch 1

Switch>enable

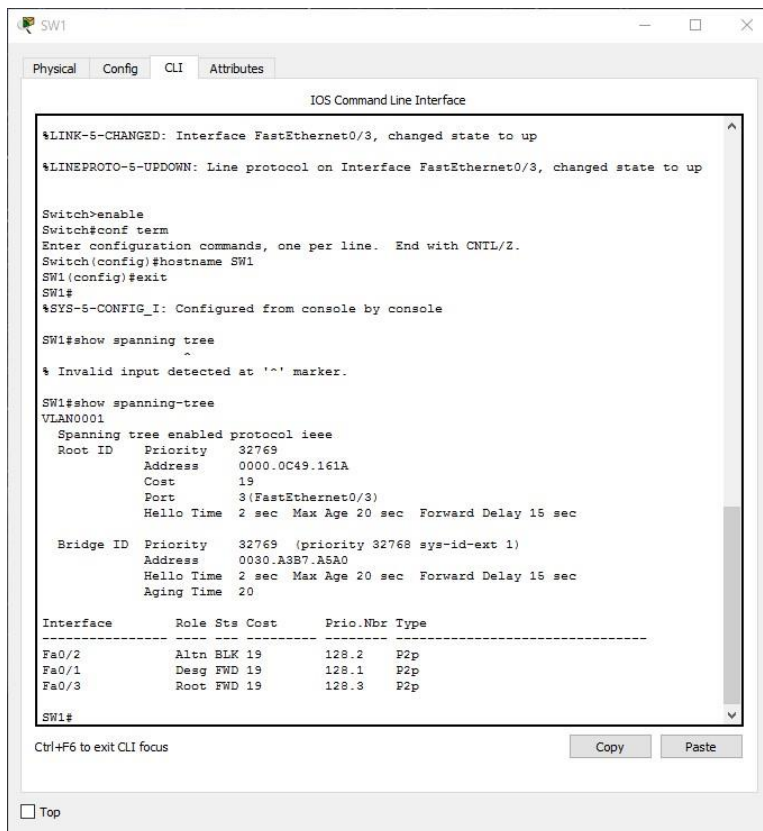
Switch#conf term

Switch(config)#hostname SW1 SW1(config)#

Begitupun dengan switch yang lain ***Tugas***

4A:

- SW1



```
SW1
Physical Config CLI Attributes
IOS Command Line Interface

$LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW1
SW1(config)#exit
SW1#
$SYS-5-CONFIG_I: Configured from console by console

SW1#show spanning tree
^
$ Invalid input detected at '^' marker.

SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0000.0C49.161A
              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    0030.A3B7.A5A0
              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    F2p
Fa0/1          Desg FWD 19        128.1    F2p
Fa0/3          Root FWD 19        128.3    F2p

SW1#
```

- SW2

```
SW2
Physical Config CLI Attributes
IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#exit
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    0000.0C49.161A
            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    0001.42D4.E166
            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
Fa0/2      Desg FWD 19    128.2 P2p

SW2#
```

-SW3

```
SW3
Physical Config CLI Attributes
IOS Command Line Interface

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
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    0000.0C49.161A
            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    0000.0C49.161A
            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

SW3#
```

Tugas 4B:

-SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0030.A3B7.A5A0
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

-SW2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0001.42D4.E166
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

- SW3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0000.0C49.161A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

Tugas 4C:

- root bridge: SW3

- designed bridge: SW2

- root port: SW1(fa 0/3) dan SW2(fa 0/3)

- designed port: SW1(fa 0/1), SW2(fa 0/1; fa 0/2), dan SW3(fa 0/1; fa 0/2; fa 0/3) ***Tugas 4D:***

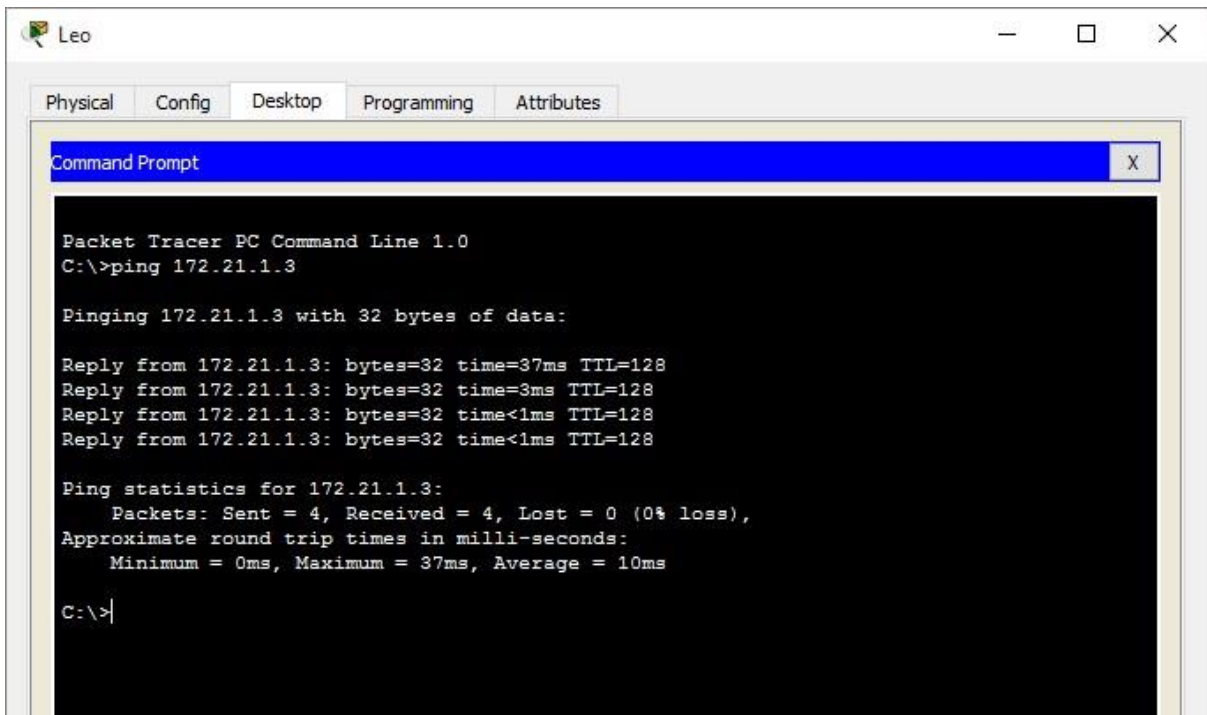
- forwarding:

- SW1(fa 0/1; fa 0/3)
- SW2(fa 0/1; fa 0/2; fa 0/3)

- SW3(fa 0/1; fa 0/2; fa 0/3) - blocking
- SW1(fa 0/2)

Tugas 5A:

1. Klik pada pc leo
2. Pilih tab desktop
3. Pilih command prompt
4. Tuliskan ping 172.21.1.3



```

Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=37ms TTL=128
Reply from 172.21.1.3: bytes=32 time=3ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 37ms, Average = 10ms

C:\>|
  
```

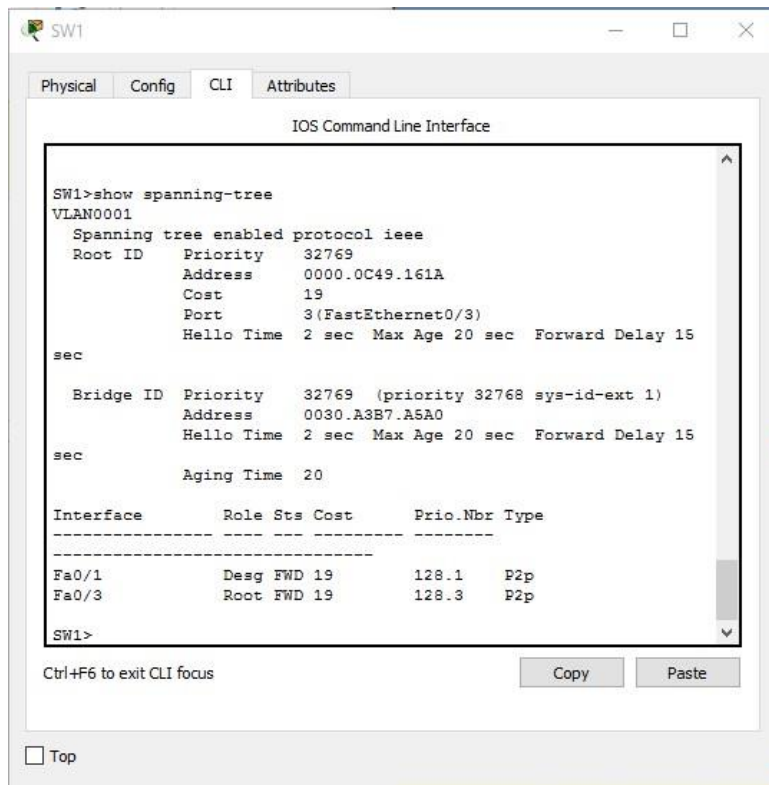
Tugas 6A:

1. Pilih file
2. Pilih save
3. Beri nama lab2 yang akan berkestensi sesuai aplikasi yang digunakan

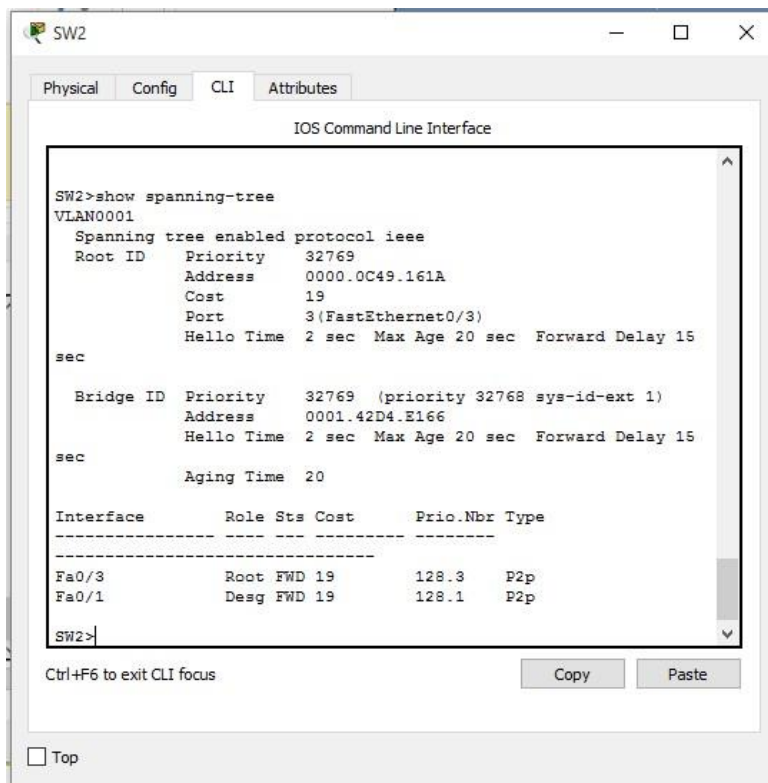
Kegiatan 2:

Tugas 9A:

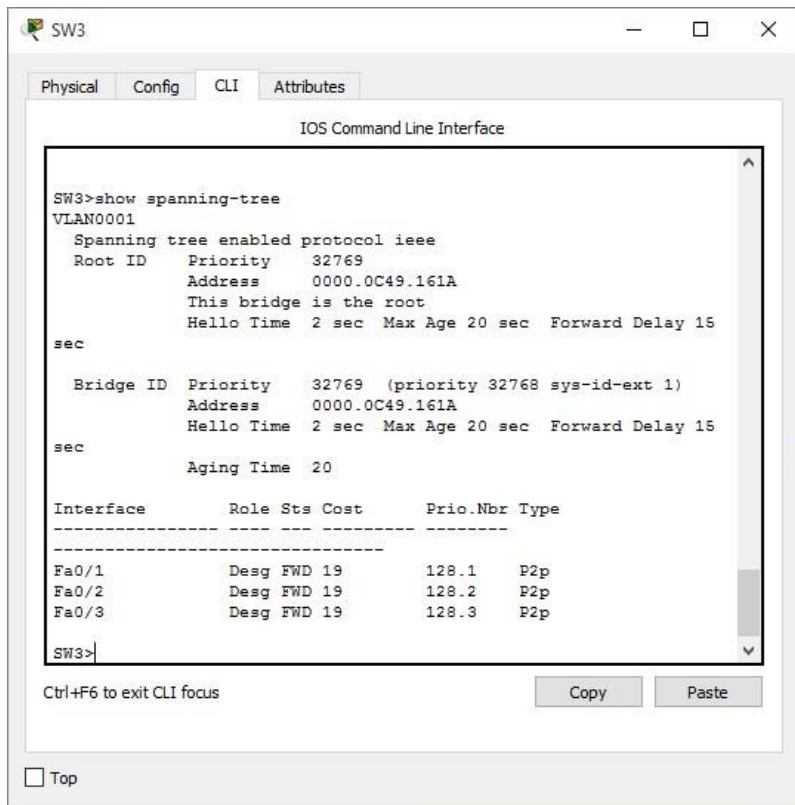
- SW1



-SW2



-SW3



-SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0030.A3B7.A5A0
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

-SW2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0001.42D4.E166
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

- SW3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Address	0000.0C49.161A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

- root bridge: SW3
- designed bridge: SW1, SW2
- root port: SW1(fa 0/3) dan SW2(fa 0/3)
- designed port: SW1(fa 0/1), SW2(fa 0/1), dan SW3(fa 0/1; fa 0/2; fa 0/3)

- forwarding:
 - SW1(fa 0/1; fa 0/3)
 - SW2(fa 0/1; fa 0/3)
 - SW3(fa 0/1; fa 0/2; fa 0/3)
- blocking: tidak ada yang terblock