

Nama : Nugroho Prihananto

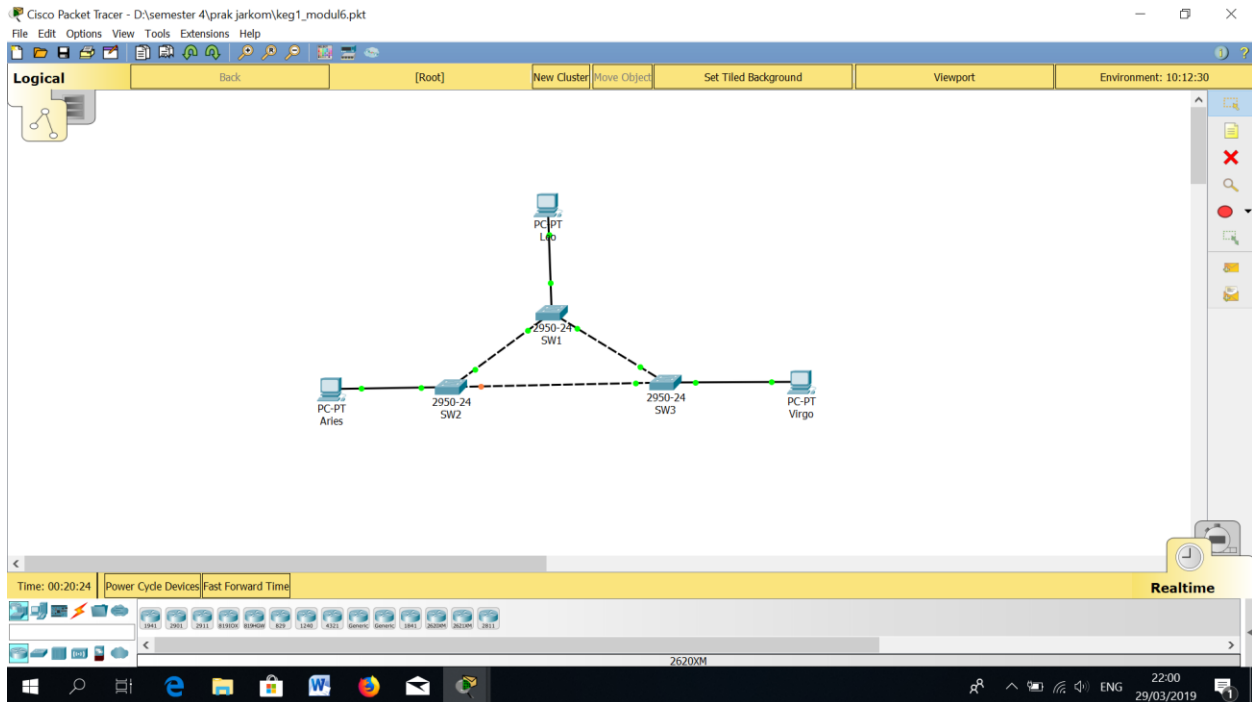
NIM : L200170186

Kelas : D

TUGAS MODUL 6

Topologi 1

Tugas 1A : Tulis langkah pembuatan topologi



- Menambahkan 3 switch 2950-24 dan menambahkan 3 PC
- Kemudian menghubungkan setiap switch dan PC dengan kabel.

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

- Masuk ke mode user dengan mengetik “enable”
- Untuk mengkonfigurasi harus ke mode global dengan cara mengetik “conf term”
- untuk mengganti nama switch dengan cara mengetik “hostname sw1,sw2,sw3”
- keluar dari mode global dengan mengetik “exit”

Cisco Packet Tracer - D:\semester 4\prak jarkom\keg1_module6.pkt

File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set Tiled Background Viewport Environment: 15:44:00

PC-PT Aries 2950-24 SW1 2950-24 SW2 2950-24 SW3

SW1

Physical Config CLI Attributes

IOS Command Line Interface

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

Ctrl+F6 to exit CLI focus

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Top

Time: 00:31:26 Power Cycle Devices Fast Forward Time

Router-PT-Empty

22:11 29/03/2019

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File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set Tiled Background Viewport Environment: 15:53:30

PC-PT Aries 2950-24 SW2

SW2

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface FastEthernet0/1, changed
state to up
%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

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

Ctrl+F6 to exit CLI focus

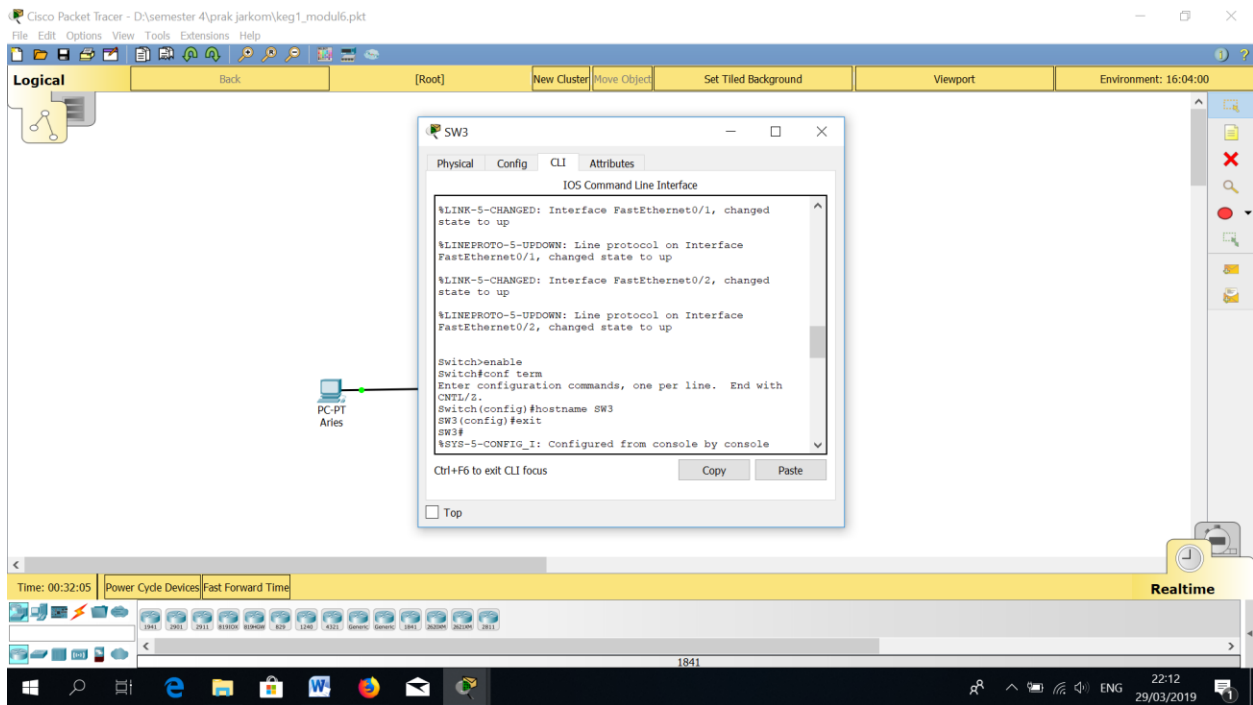
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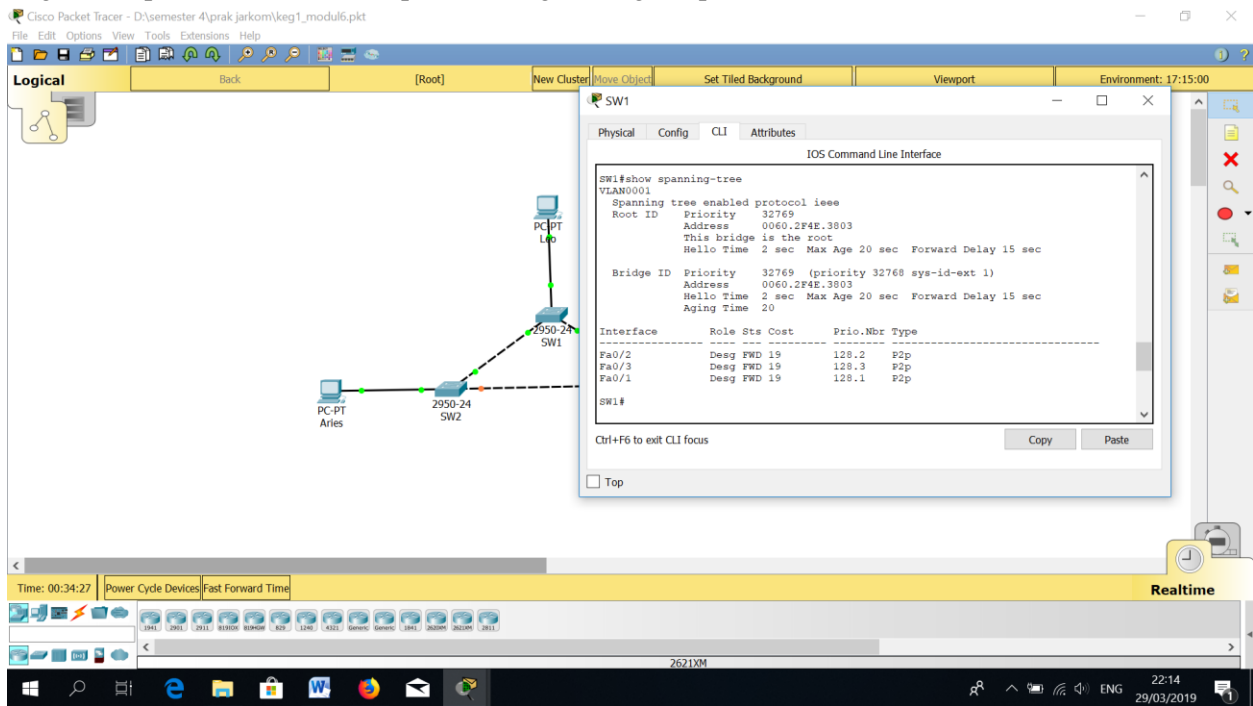
Time: 00:31:45 Power Cycle Devices Fast Forward Time

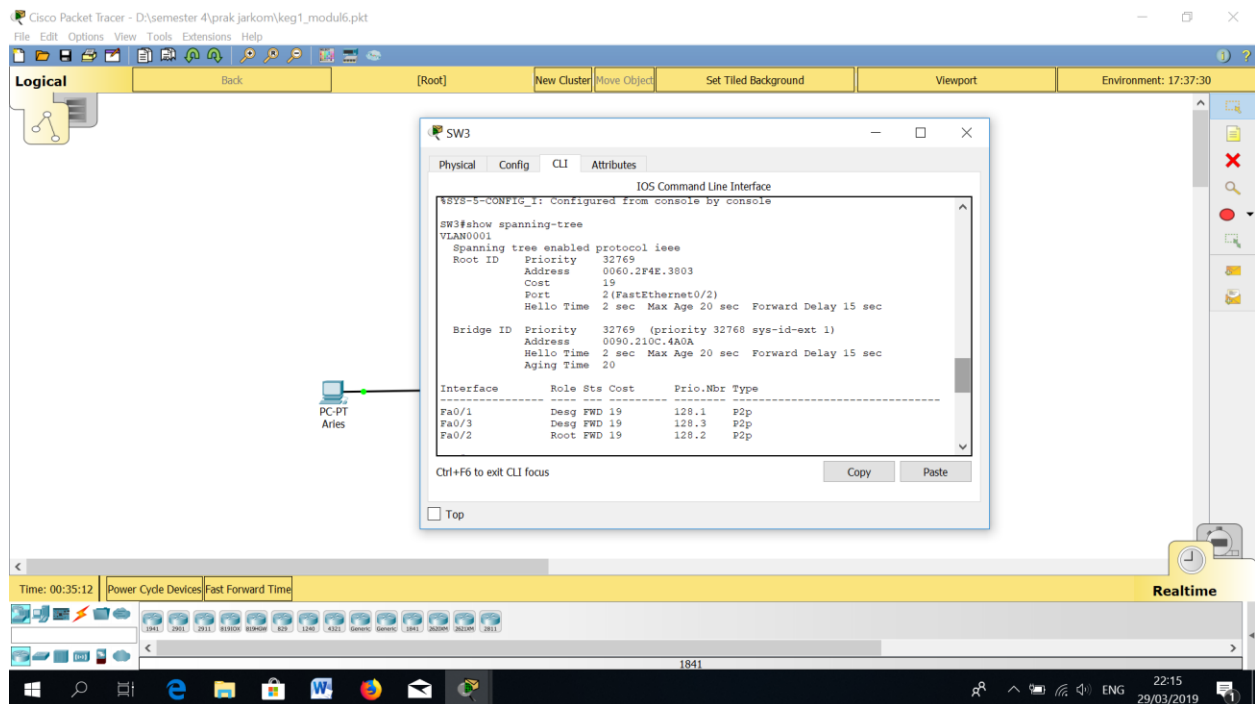
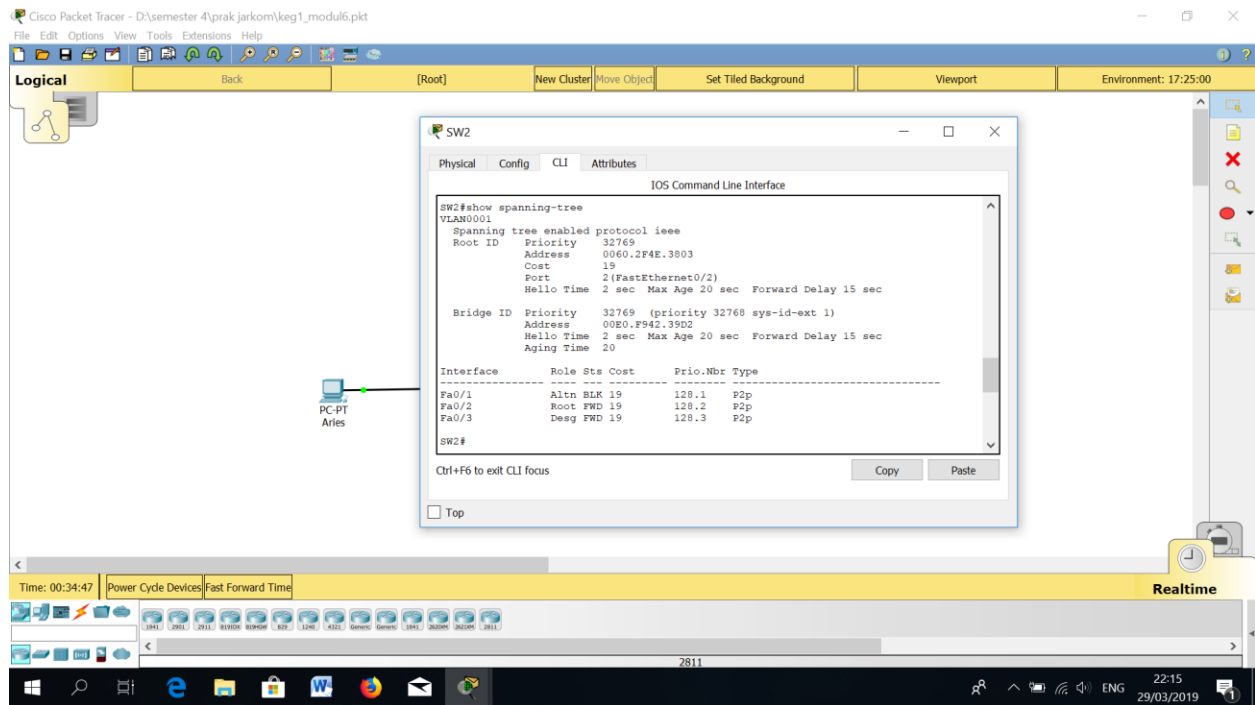
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22:12 29/03/2019



Tugas 4A : pada kondisi default,capture masing-masing tampilan status STP switch (SW1,SW2,SW3)





Tugas 4B : untuk tiap switch, isikan tabel berikut:

SW 1

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0060.2F4E.3803
4	Bridge ID	

5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 2

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0060.2F4E.3803
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 3

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0060.2F4E.3803
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Tugas 4C : Pada kondisi default tersebut, switch dan port mana saja yang menjadi:

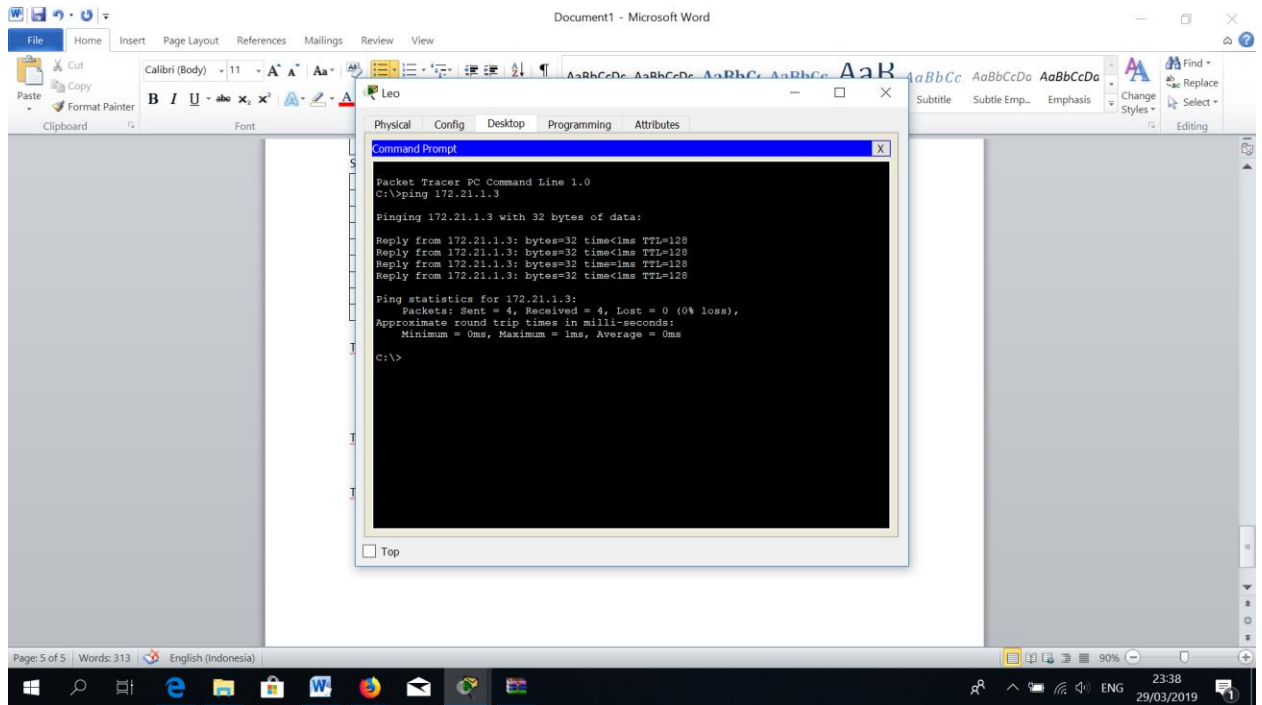
- menjadi root bridge: SW1 0/2 dan 0/2
- menjadi designated bridge: SW2 dan SW3 0/1 dan 0/1
- menjadi root port: SW2 0/2 dan SW3 0/2
- menjadi designated port: SW2 0/1 dan SW3 0/1

Tugas 4D : pada kondisi default tersebut, dan nama saja yang:

- berada pada keadaan forwarding: SW1(0/2,0/3), SW2(0/1,0/2,0/3), SW3(0/1,0/2,0/3)
- berada pada keadaan blocking: SW2(0/1)

Tugas 5A : tuliskan langkah untuk melakukan ping (pc leo ke pc virgo)

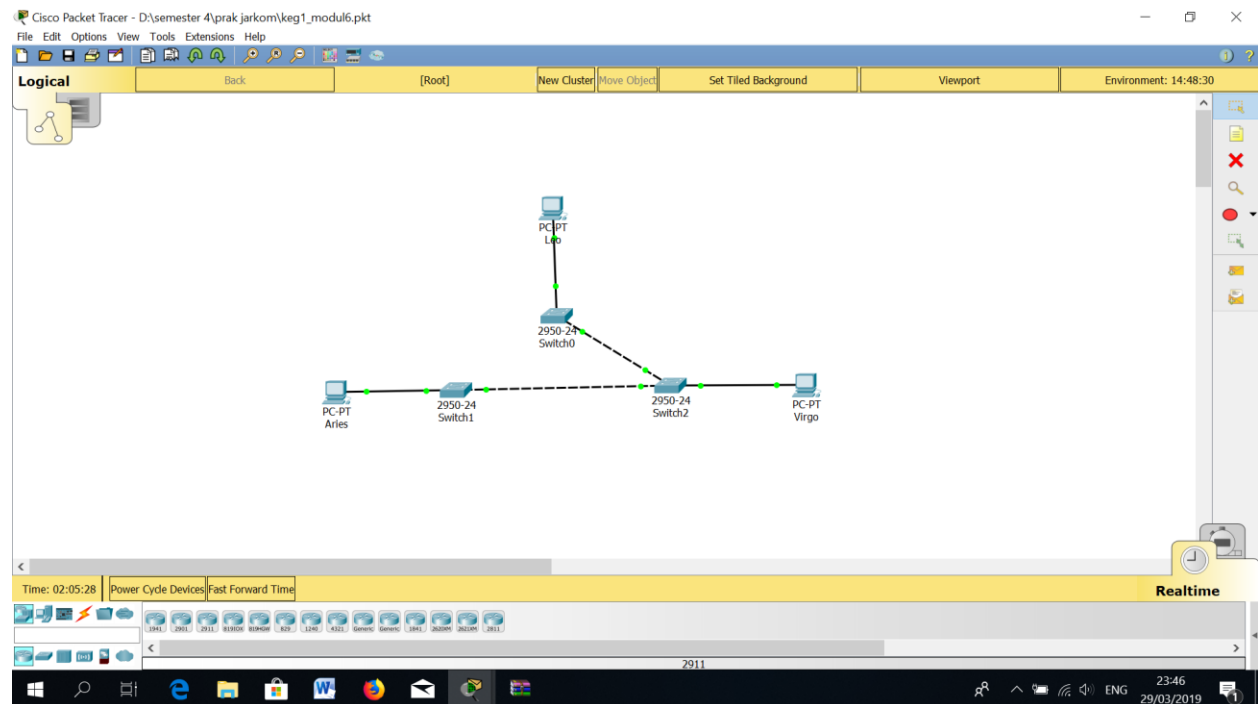
- klik pc leo bagian desktop buka command prompt
- ketik "ping 172.21.1.3" kemudian "enter"



Tugas 6A : Tulis langkah untuk menyimpan konfigurasi jaringan

- ketik “write” pada mode user

Topologi 2



Tugas 9A : kerjakan tugas seperti pada tugas langkah lab4

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File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set Tiled Background Viewport Environment: 17:15:30

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

VLINPROT-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down

```
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0060.2F4E.3803
              This bridge is the root
              Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
    Bridge ID  Priority    32769 (priority 32769 sys-id-ext 1)
              Address    0060.2F4E.3803
              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

SW1#
```

Ctrl+F6 to exit CLI focus

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Time: 02:10:22 Power Cycle Devices Fast Forward Time Realtime

2911

23:51 29/03/2019

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Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
down
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0060.2F4E.3803
              Cost        38
              Port        1(FastEthernet0/1)
              Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
    Bridge ID  Priority    32769 (priority 32769 sys-id-ext 1)
              Address    00E0.F942.39D2
              Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
              Aging Time 20

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

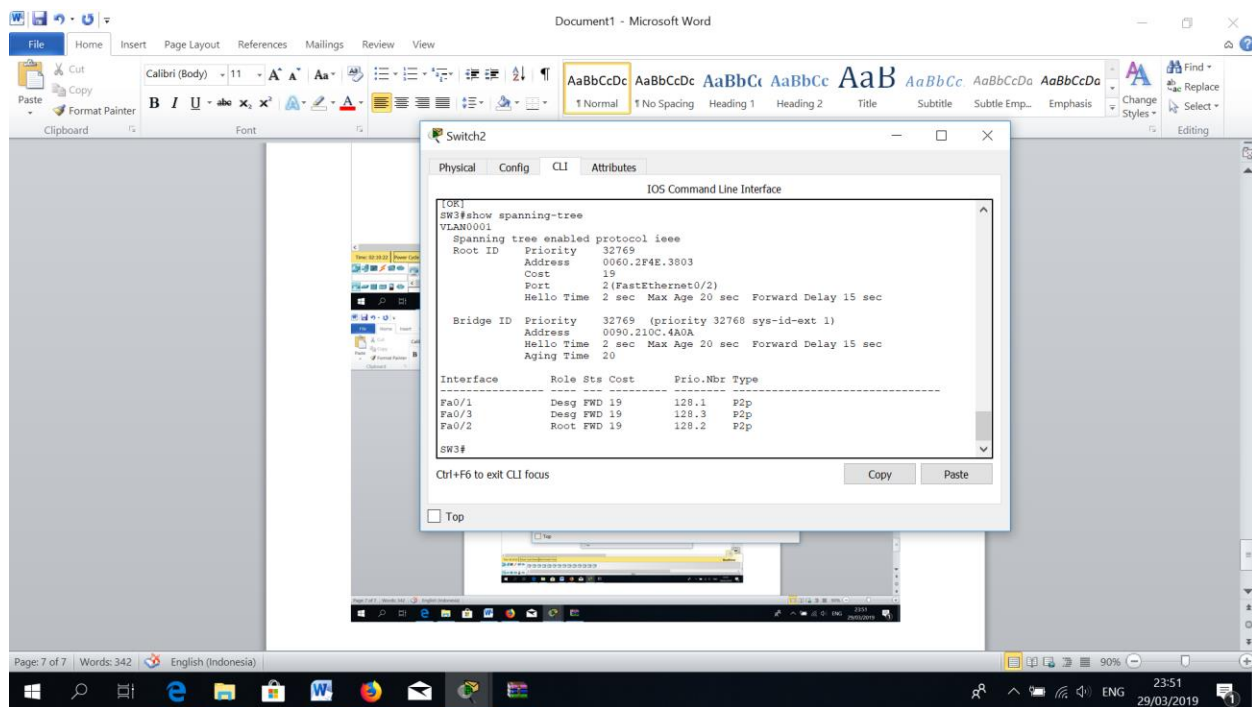
SW2#
```

Ctrl+F6 to exit CLI focus

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SW 1

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0060.2F4E.3803
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 2

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0060.2F4E.3803
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW 3

No	Variabel	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0060.2F4E.3803
4	Bridge ID	
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec

7	MaxAge	20 sec
8	Forward Delay	15 sec

Pada kondisi default tersebut, switch dan port mana saja yang menjadi:

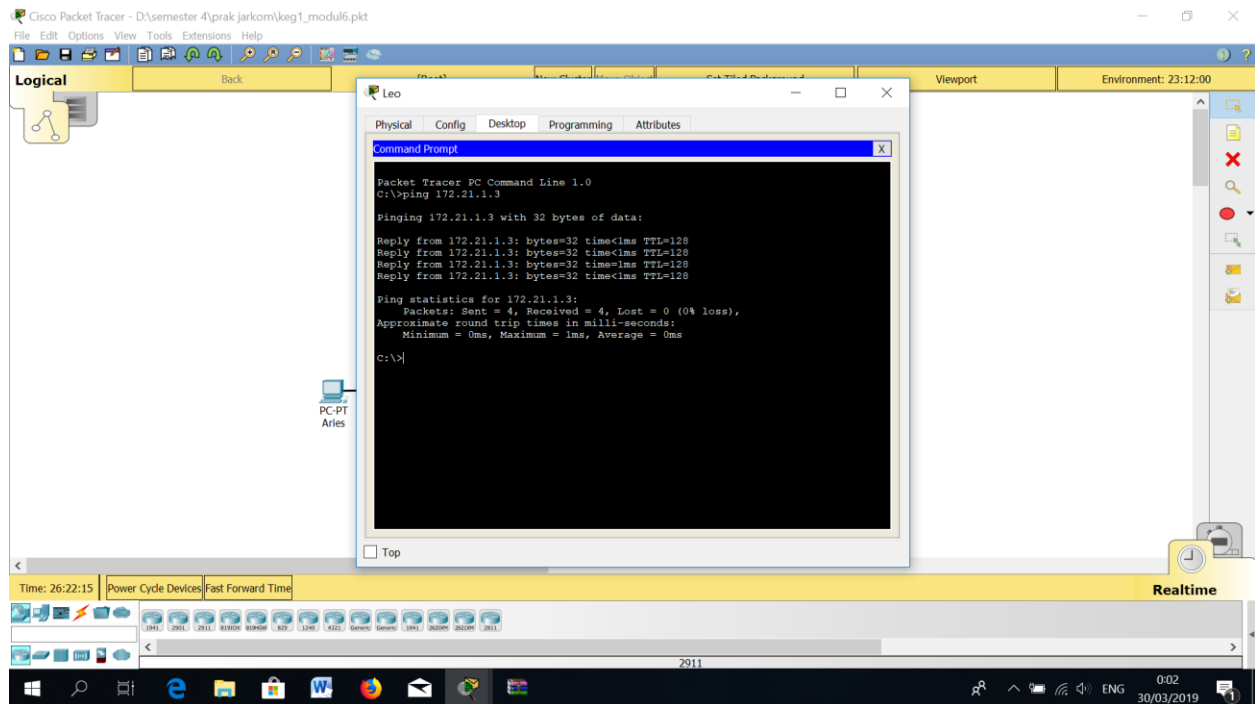
- menjadi root bridge: SW1 0/1 dan 0/2
- menjadi designated bridge: SW2 dan SW3 0/1 dan 0/1
- menjadi root port: SW2 0/1 dan SW3 0/2
- menjadi designated port: SW2 0/1 dan SW3 0/1

pada kondisi default tersebut, dan nama saja yang:

- berada pada keadaan forwarding: SW1(0/1,0/3),SW2(0/1,0/3),SW3(0/1,0/2,0/3)
- berada pada keadaan blocking: tidak ada blocking

tuliskan langkah untuk melakukan ping (pc leo ke pc virgo)

- klik pc leo bagian desktop buka command prompt
- ketik “ping 172.21.1.3” kemudian “enter”



Tulis langkah untuk menyimpan konfigurasi jaringan

- ketik “write” pada mode user