

Nama : Yusuf Ade Putra Perdana

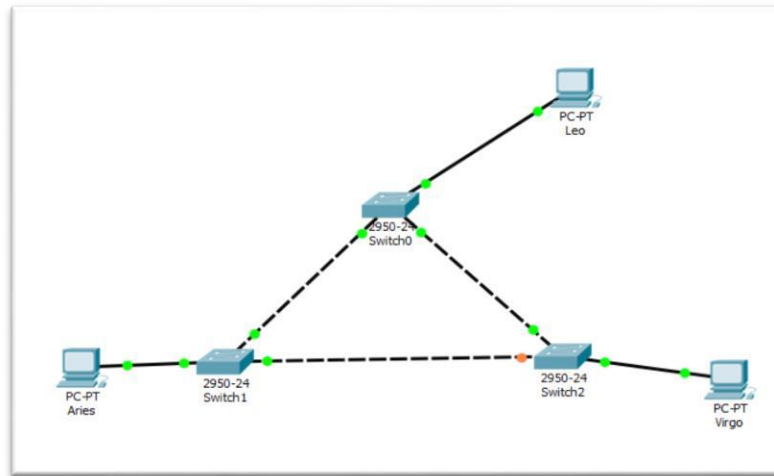
NIM : L200180169

Kelas : D

PRAKTIKUM JARINGAN KOMPUTER MODUL KE-6

KEGIATAN 1 :

Membuat rangkaian topologi menggunakan switch catalyst 2950



Terdapat 3 buah switch (SW0,SW1, dan SW2) dan juga 3 workstation (Leo, Aries, dan Virgo) .Setelah itu lakukan konfigurasi IP pada masing-masing PC :

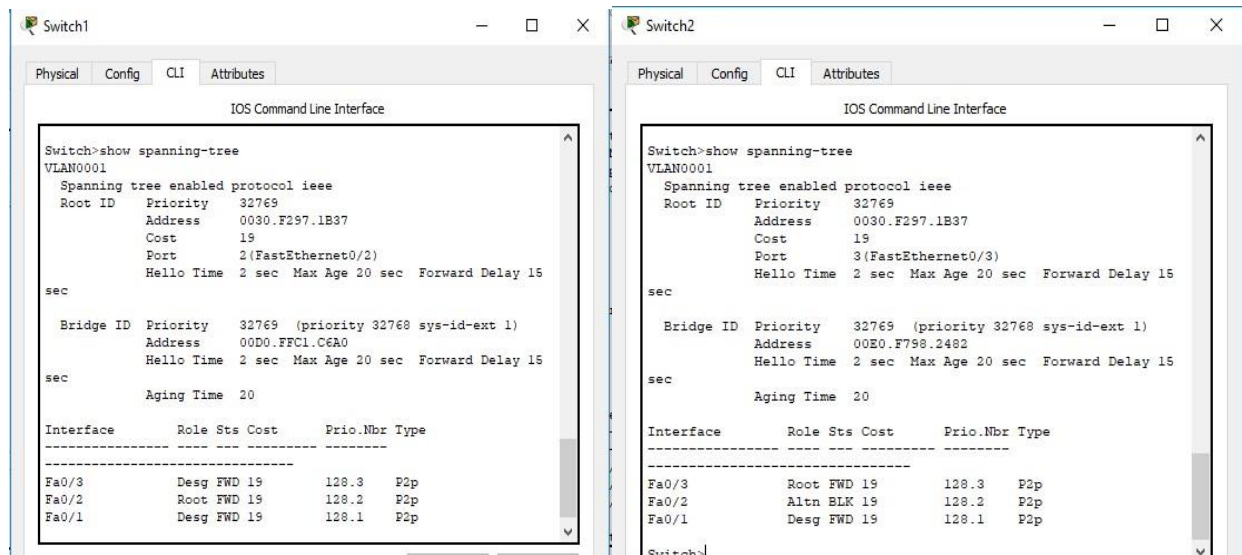
- Leo = 172.21.1.1/24
- Aries = 172.21.1.2/24
- Virgo = 172.21.1.3/24

Lakukan pengecekan spanning tree dengan perintah “ *show spanning-tree* ” pada switch :

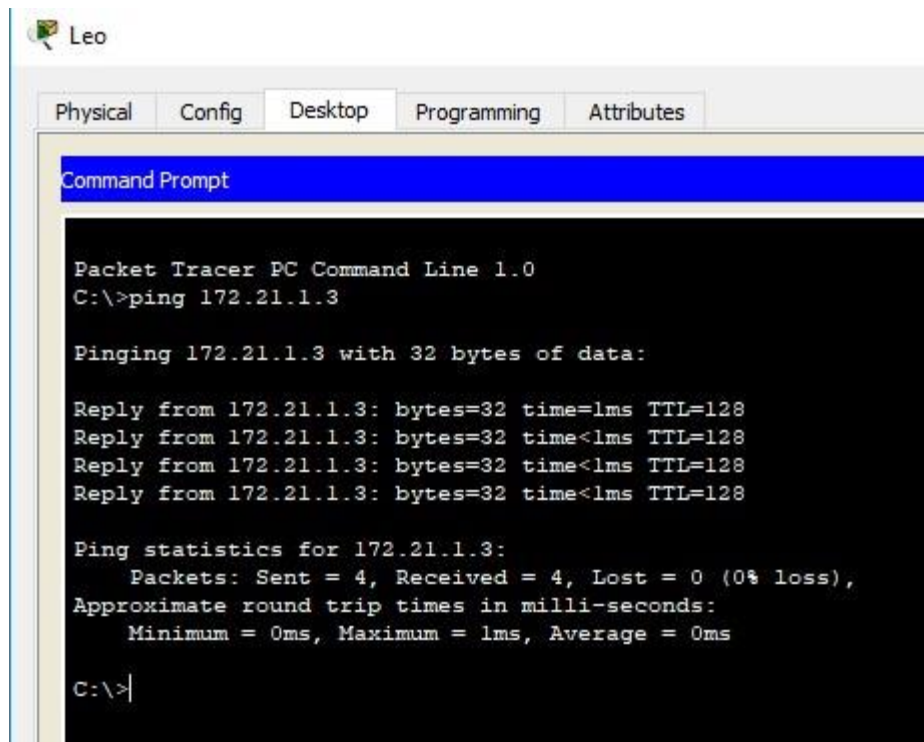
```
Switch0
Physical Config CLI Attributes
IOS Command Line Interface

Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    0030.F297.1B37
           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    0030.F297.1B37
           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
Fa0/3       Desg FWD 19      128.3    P2p
Fa0/1       Desg FWD 19      128.1    P2p
```

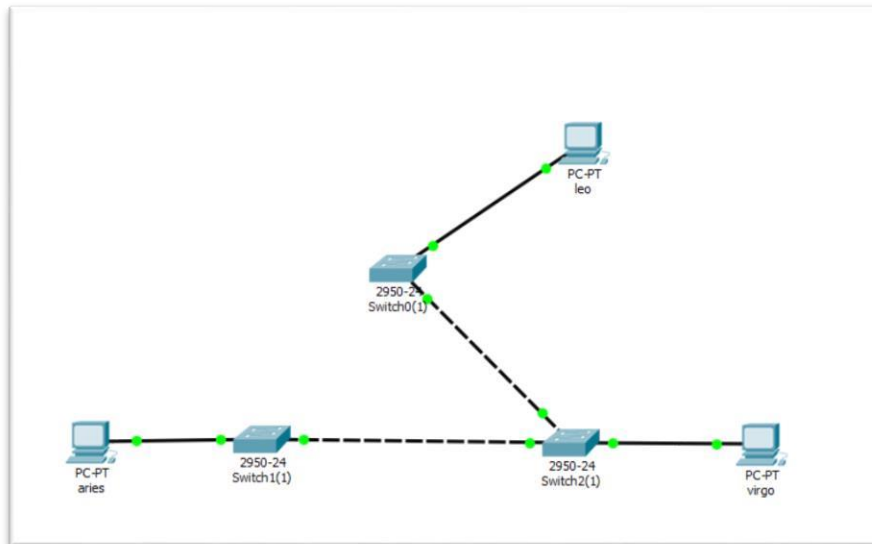


Melakukan test ping Leo-Virgo



KEGIATAN 2 :

Membuat rangkaian topologi menggunakan switch catalyst 2950 seperti pada kegiatan 1 tadi, tetapi SW0 dengan SW1 tidak terhubung.



Lakukan pengecekan spanning tree dengan perintah “ show spanning-tree ” pada switch :

```
Switch0(1)
Physical Config CLI Attributes
IOS Command Line Interface
changed state to down

Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 0001.960D.BA6A
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 0001.960D.BA6A
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

Switch>
```

```
Switch1(1)
Physical Config CLI Attributes
IOS Command Line Interface

Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 0001.960D.BA6A
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 0090.2197.E8A6
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

Switch>
```

```
Switch2(1)
Physical Config CLI Attributes
IOS Command Line Interface

Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 0001.960D.BA6A
Cost 15
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.F232.4D3B
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

Switch>
```

Melakukan test ping Leo-Virgo

```
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=1ms 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
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 = 1ms, Average = 0ms

C:\>|
```