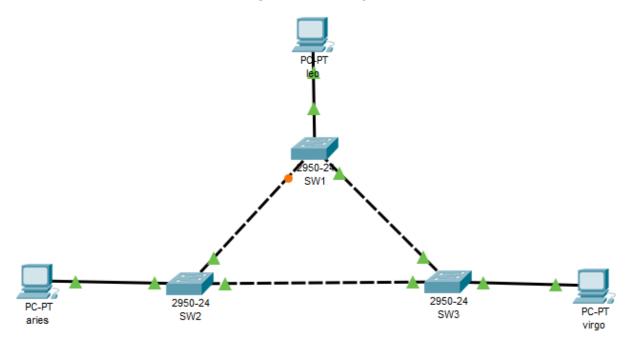
Nama: Titis Ulfa Mustikawati

NIM : L200170057

Kelas: B

MODUL VI SPANNING TREE PROTOCOL

KEGIATAN PRAKTIKUM 1



1. Langkah pembuatan topologi

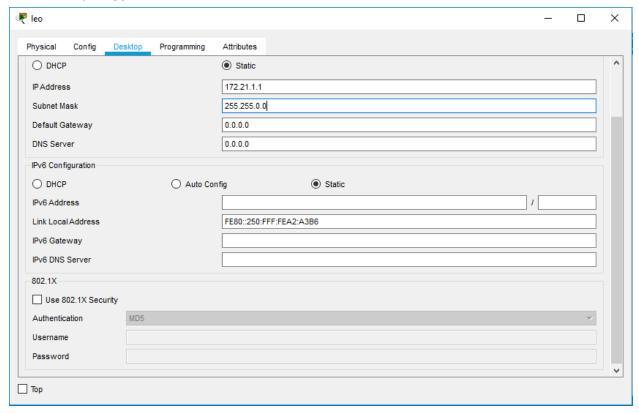
- a. Pilih switch 2950-24 lalu sisipkan pada layar dengan posisi sesuai dengan contoh gambar topologi 1
- b. Pilih pc-pt lalu sisipkan pada layar dengan posisi sesuai dengan contoh gambar
- c. Ubah nama pc dengan cara klik dua kali pada pc01, pc02, pc03 dengan nama leo, aries dan virgo
- d. Tarik kabel antara pc dan switch maupun switch dengan switch

2. Memberi nama switch

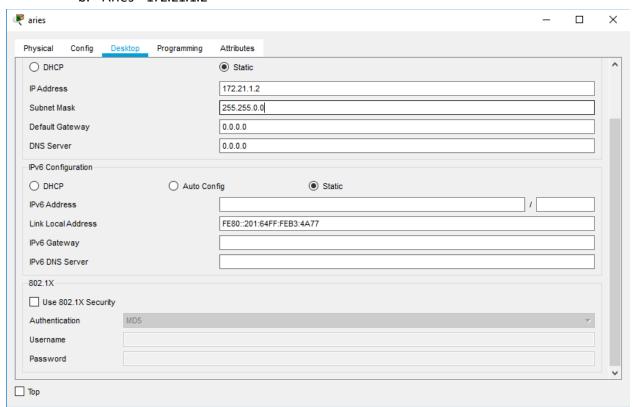
- a. Klik 2 kali pada switch0 dan ubah dengan nama SW1
- b. Klik 2 kali pada switch1 dan ubah dengan nama SW2
- c. Klik 2 kali pada switch2 dan ubah dengan nama SW3

3. Konfigurasi pc dengan alamat ip

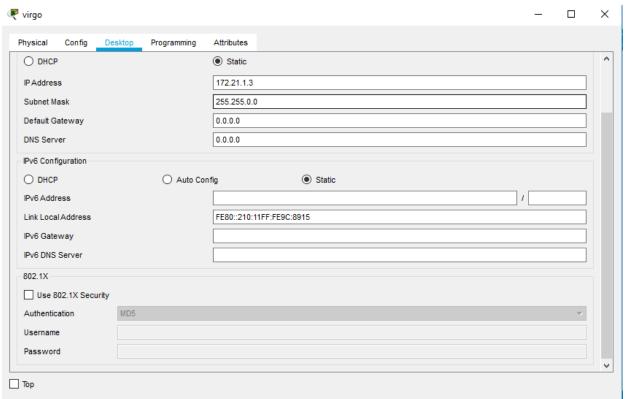
a. Leo = 172.21.1.1



b. Aries = 172.21.1.2

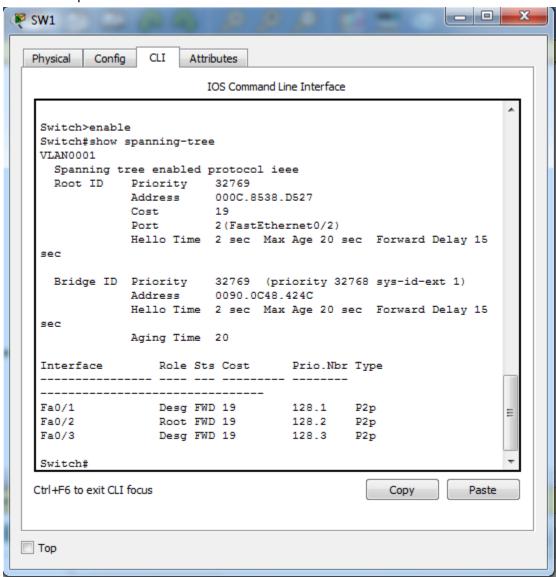


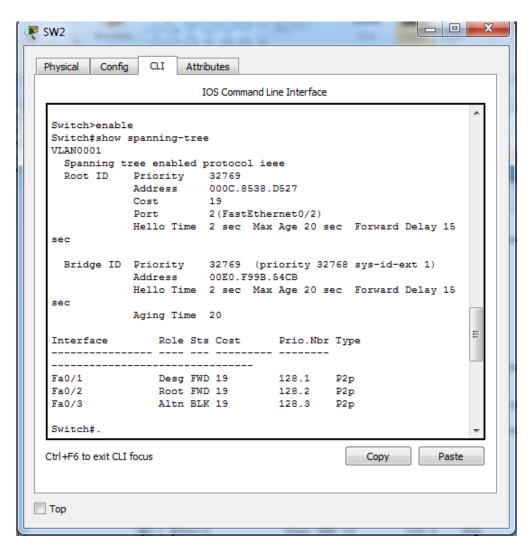
c. Virgo = 172.21.1.3

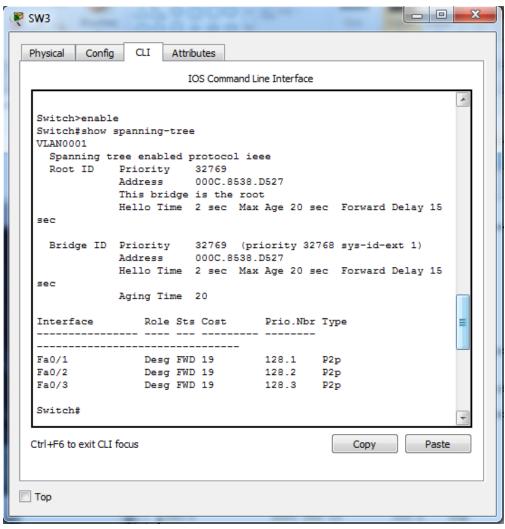


4. Melihat status STP pada switch

a. Tampilan status STP







b. Mengisi table

SW1

No	Variable	Nilai
1	Root ID	32769.000C.8538.D527
2	Priority	32769
3	MAC Adrress	000C.8538.D527
4	Bridge ID	32769.0090.0C48.424C
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW2

No	Variable	Nilai
1	Root ID	32769.000C.8538.D527
2	Priority	32769
3	MAC Adrress	000C.8538.D527
4	Bridge ID	32769.00E0.F99B.54CB
5	Cost (0/1;0/2;0/3)	19;19;19
6	HelloTime	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW3

No	Variable Nilai	
1	Root ID	32769.000C.8538.D527
2	Priority	32769
3	MAC Adrress	000C.8538.D527
4	Bridge ID	32769.000C.8538.D527
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

c. Switch dan port pada kondisi default

Root bridge = SW1
 Root port = SW2
 Designated bridge = SW3
 Designated port = -

d. Port pada kondisi default

■ Fordwarding = SW 1, SW 2 & SW 3 (fa 0/1, fa 0/2)

■ Blocking = SW 3 fa 0/3

5. Ping pc leo ke pc virgo

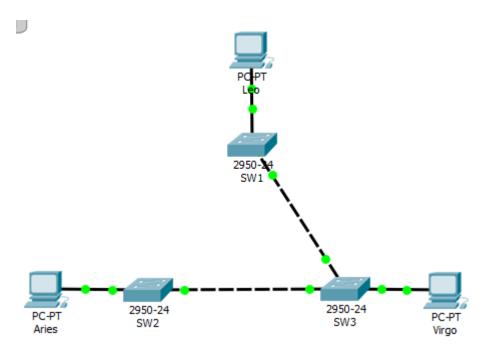
- a. Klik pada pc leo
- b. Pada desktop, pilih command prompt
- c. Ketikkan 'ping 172.21.1.3' lalu enter

```
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=11ms 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 = 11ms, Average = 2ms
C:\>
```

KEGIATAN PRAKTIKUM 2



1. Melihat status STP pada switch

a. Tampilan status STP

SW1

```
Switch>enable
Switch#show spanning-tree
VLAN0001
 Spanning tree enabled protocol ieee
 Root ID
           Priority 32769
                        000C.8538.D527
            Address
            Cost
                        19
            Port
                       1(FastEthernet0/1)
            Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
 Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 0090.0C48.424C
            Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
            Aging Time 20
               Role Sts Cost
                                 Prio.Nbr Type
                             128.3
128.1
                                                                 Ε
Fa0/3
               Desg FWD 19
                                          P2p
                                          P2p
Fa0/1
               Root FWD 19
Switch#
```

```
Switch>enable
Switch#show spanning-tree
VLAN0001
 Spanning tree enabled protocol ieee
 Root ID Priority 32769
             Address
                         000C.8538.D527
                         19
             Cost
                     2 (FastEthernet0/2)
             Port
             Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
 Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 00E0.F99B.54CB
Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
             Aging Time 20
Interface
                Role Sts Cost
                                    Prio.Nbr Type
              Desg FWD 19 128.1
                                            P2p
Fa0/1
                 Root FWD 19
Fa0/2
                                    128.2
                                             P2p
Switch#
```

SW3

```
Switch>enable
Switch#show spanning-tree
VLAN0001
 Spanning tree enables print
Root ID Priority 32769
Address 000C.8538.D527
             Address
                         19
             Cost
                          2(FastEthernet0/2)
              Port
             Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 00E0.F99B.54CB
             Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
             Aging Time 20
Interface
                 Role Sts Cost Prio.Nbr Type
                                128.1
128.2
             Desg FWD 19
Root FWD 19
                                              P2p
P2p
Fa0/1
Fa0/2
Switch#
```

b. Mengisi table

SW1

No	Variable	Nilai	Interface	Role	Status
1	Root ID	32769.000C.8538.D527	Fa 0/1	desg	Fwd
2	Priority	32769	Fa 0/2	Desg	fwd
3	MAC Adrress	000C.8538.D527			
4	Bridge ID	32769.0090.0C48.424C			
5	Cost (0/1;0/2;0/3)	19;19;19			
6	Hello Time	2 sec			
7	Max Age	20 sec			
8	Forward Delay	15 sec			

No	Variable	Nilai	Interface	Role	Status
1	Root ID	32769.000C.8538.D527	Fa 0/3	Root	Fwd
2	Priority	32769	Fa 0/2	Desg	fwd
3	MAC Adrress	000C.8538.D527			
4	Bridge ID	32769.00E0.F99B.54CB			
5	Cost (0/1;0/2;0/3)	19;19;19			
6	Hello Time	2 sec			
7	Max Age	20 sec			
8	Forward Delay	15 sec			

SW3

No	Variable	Nilai	Interface	Role	Status
1	Root ID	32769.000C.8538.D527	Fa 0/3	desg	fwd
2	Priority	32769	Fa 0/1	Root	Fwd
3	MAC Adrress	000C.8538.D527	Fa 0/2	Desg	fwd
4	Bridge ID	32769. 00E0.F99B.54CB			
5	Cost (0/1;0/2;0/3)	19;19;19			
6	Hello Time	2 sec			
7	Max Age	20 sec			
8	Forward Delay	15 sec			

d. Switch dan port pada kondisi default

■ Root bridge = SW1 & SW3

Root port = SW2
 Designated bridge = Designated port = -

e. Port pada kondisi default

■ Fordwarding = SW 1, SW 2 & SW 3 (fa 0/1, fa 0/2, fa 0/3)

■ Blocking = -

6. Ping pc leo ke pc virgo

- a. Klik pada pc leo / pc
- b. Pada desktop, pilih command prompt
- c. Ketikkan 'ping 172.21.1.3' lalu enter

```
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=11ms 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 = 11ms, Average = 3ms

C:\>
```