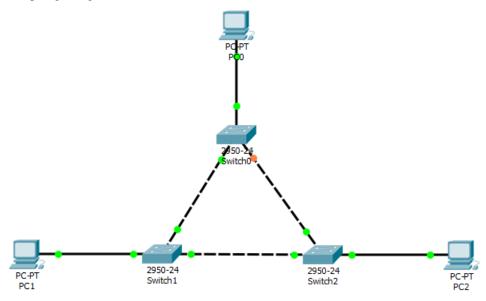
Nama : Ayasha Ninda Maharani

NIM : L200170143 Kelas : $C \rightarrow D$

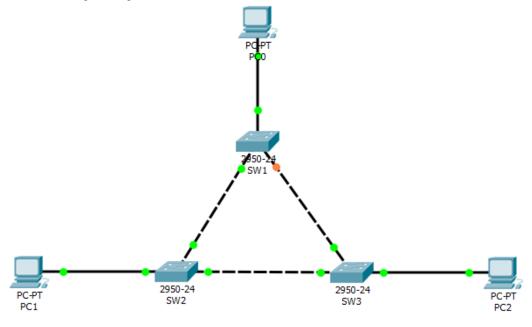
MODUL VI Spanning Tree Protocol

Kegiatan 1. Topologi 1

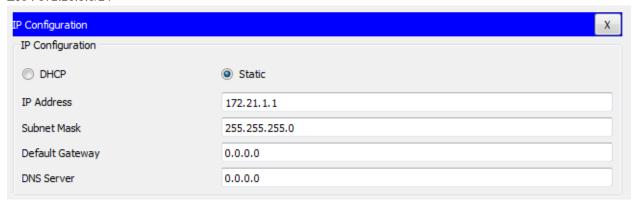
1. Membuat topologi dengan Packet Tracer



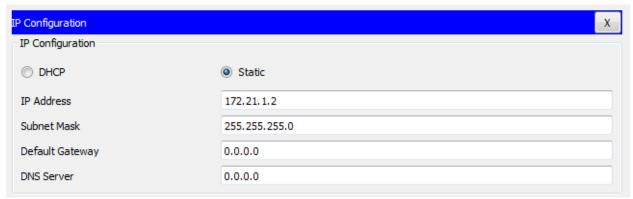
2. Memberi nama masing-masing switch.



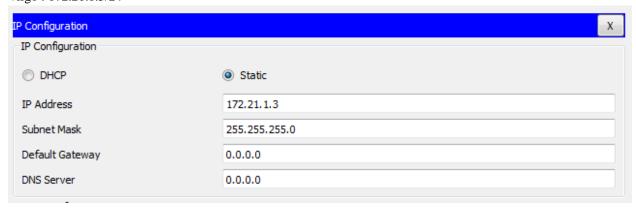
- 3. Mengkonfigurasi IP Address masing-masing PC
 - a. Leo: 172.21.1.1/24



b. Aries: 172.21.1.2/24



c. Virgo: 172.21.1.3/24



4. Melihat status STP masing-masing switch

a. SW 1

Switch>enable

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 000A.41BE.5456

Cost 19

Port 2(FastEthernet0/2)

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)

Address 0090.2195.DC82

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Aging Time 20

Interface	Role	Sts	Cost	Prio.Nbr	Type
Fa0/2	Root	FWD	19	128.2	P2p
Fa0/1	Desg	FWD	19	128.1	P2p
Fa0/3	Altn	BLK	19	128.3	P2p

Switch#

b. SW 2

Switch>enable

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 000A.41BE.5456 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 000A.41BE.5456

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

Switch#

c. SW 3

```
Switch>enable
Switch#shoe spanning-tree
% Invalid input detected at '^' marker.
Switch#show spanning-tree
VLAN0001
 Spanning tree enabled protocol ieee
 Root ID Priority 32769
         Address
                  000A.41BE.5456
         Cost
                  19
                  2(FastEthernet0/2)
          Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
                  0060.5CA5.8396
          Address
          Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
         Aging Time 20
                          Prio.Nbr Type
            Role Sts Cost
Interface
Fa0/1
            Desg FWD 19 128.1 P2p
           Root FWD 19
                          128.2 P2p
Fa0/2
            Desg FWD 19
Fa0/3
                          128.3 P2p
```

5. Melakukan Ping dari PC Leo ke PC Virgo.

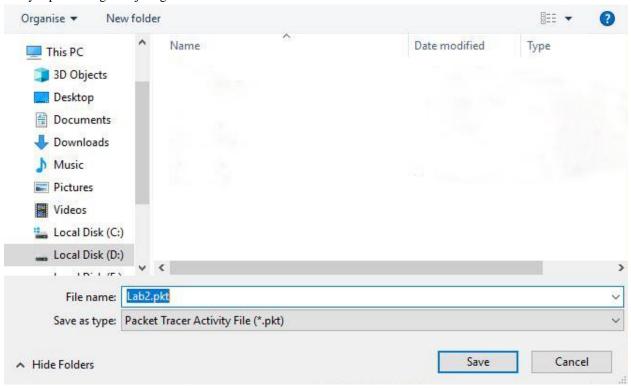
Switch#

```
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

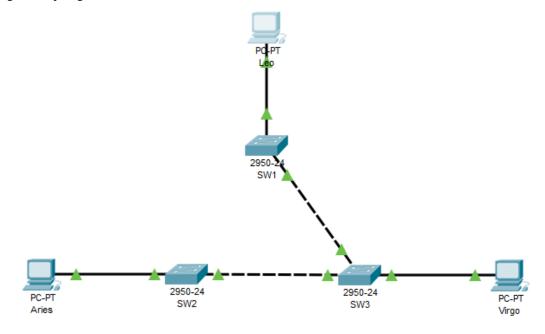
Reply from 172.21.1.3: bytes=32 time=16ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 16ms, Average = 4ms</pre>
```

6. Menyimpan konfigurasi jaringan



Kegiatan 2. Topologi 2

1. Mengubah topologi.



2. Melihat status STP masing-masing switch.

a. SW 1

Switch>enable

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 000A.41BE.5456

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 0090.2195.DC82

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#

b. SW 2

Switch>enable

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 000A.41BE.5456 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 000A.41BE.5456

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#

c. SW 3

```
Switch>enable
Switch#show spanning-tree
VLAN0001
 Spanning tree enabled protocol ieee
 Root ID
           Priority 32769
           Address
                      000A.41BE.5456
           Cost
                      19
                      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 0060.5CA5.8396
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
              Role Sts Cost
Interface
                               Prio.Nbr Type
Fa0/1
             Desg FWD 19 128.1 P2p
              Root FWD 19
Desg FWD 19
                               128.2 P2p
128.3 P2p
Fa0/2
Fa0/3
Switch#
```

3. Melakukan Ping dari PC Leo ke PC Virgo.

```
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=12ms 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 = 12ms, Average = 3ms
```