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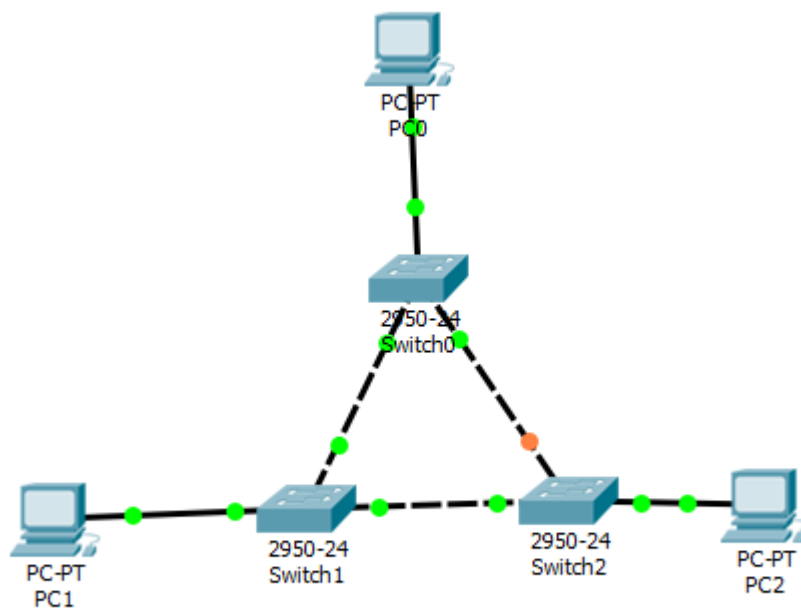
Kelas : C

Modul : VI

1.

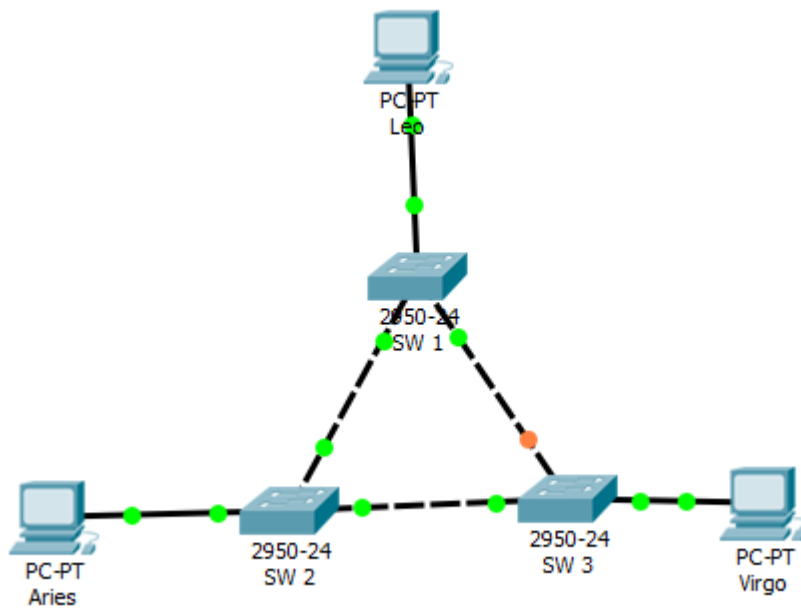
A. Langkah-langkah membuat topologi :

- Pilih switch 2950-24 sebanyak 3, dan diberi nama SW1,SW2,SW3
- Lalu pilih 3 pc yang di letakkan pada setiap sisi switch dan beri nama leo,aries,virgo.
- Hubungkan switch denngan pc dengan menggunakan kabel copper straight-through
- Hubungkan juga sesama switch dengan kabel copper straight-through



Gambar diatas adalah gambar topologi dengan 3 switch yang bertipe 2950-24. Dan terdapat 3 PC. Yaitu PC 0, PC1,PC2.

2.



Tugas 2A. Langkah memberi nama pada switch dengan cara mengeklik 2 kali pada daerah nama switch. Jadi pada PC0 menjadi Leo, pada PC1 diubah menjadi Aries, pada PC2 diubah menjadi Virgo.

3. Lalu masing-masing Pc diberi dengan alamat IP :

LEO

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	172.21.1.1
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

ARIES:

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	172.21.1.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

VIRGO:

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	172.21.1.3
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

4. Pada SW 1

4A.

```
Switch>en
Switch#conf t
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
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0000.0C7E.748A
             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     0090.2B8A.932D
             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          Root FWD 19       128.2    P2p
Fa0/3          Desg FWD 19       128.3    P2p

SW1#
```

```
Switch>en
Switch#conf t
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      0000.0C7E.748A
                  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      0000.0C7E.748A
                  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
Fa0/2                    Desg FWD 19           128.2    P2p

SW2#
```

```
Switch>en
Switch#conf t
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      0000.0C7E.748A
                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      00D0.97D6.6867
                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     P2p
Fa0/1          Root FWD 19        128.1     P2p
Fa0/3          Desg FWD 19        128.3     P2p

SW3#
```

4B.

Pada SW 1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC address	0090.2B8A.932D
4	Bridge Address	32769
5	Cost(0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Pada SW 2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC address	0000.0C7E.748A
4	Bridge Address	32769
5	Cost(0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Pada SW 3 :

No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC address	00D0.97D6.6867
4	Bridge Address	32769
5	Cost(0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

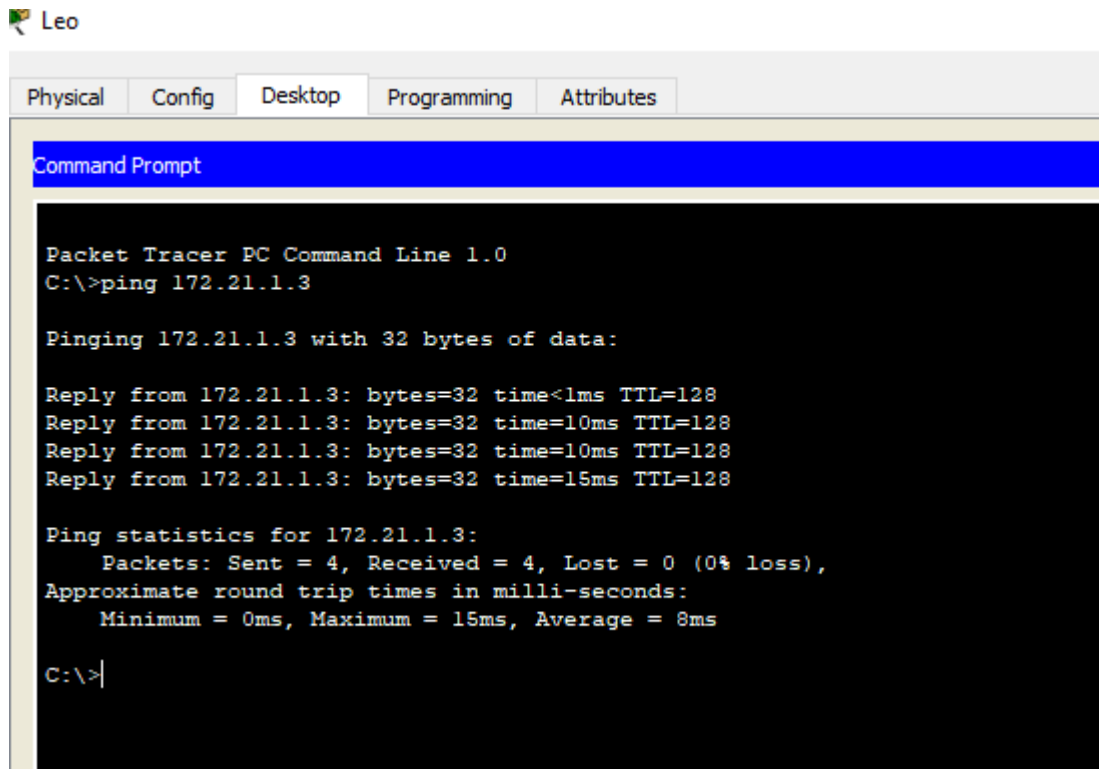
Tugas 4 C:

- Menjadi Root Bridge : SW 2
- Menjadi designated bridge: SW 1
- Menjadi root port : Sw1 0/2 dan SW 3 0/3
- Menjadi dsignated port : SW 1 0/3

Tugas 4 D:

- Berada pada keadaan Forwarding : SW 1 dan SW3
- Berada pada keadaan blocking : SW 3

5A. Ping pada 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<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=10ms TTL=128
Reply from 172.21.1.3: bytes=32 time=10ms TTL=128
Reply from 172.21.1.3: bytes=32 time=15ms TTL=128

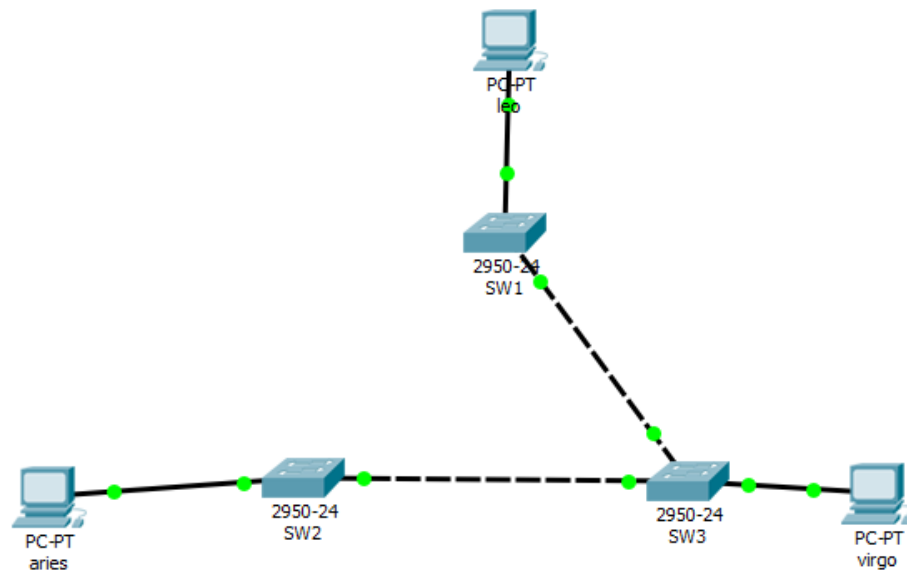
Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 15ms, Average = 8ms

C:\>|
```

6A.

- Pilih folder pada file
- Pilih save, kemudian beri nama lab 2.nwc

Kegiatan 2:



Alamat Ip pada Leo :

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	172.21.1.1
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

Aries :

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	172.21.1.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

Virgo :

IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	172.21.1.3
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

Tugas 9 A:

SW 1 :

```
Switch>en
Switch#conf t
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
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0030.A3AA.6531
             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.A3AA.6531
             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

SW1#
```

SW2 :

Pada SW 1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC address	0030.A3AA.6531
4	Bridge Address	32769
5	Cost(0/1;0/2)	19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Pada SW 2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC address	00D0.BC83.E999
4	Bridge Address	32769
5	Cost(0/1;0/2)	19;19;
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Pada SW 3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	-
3	MAC address	00D0.9759.1ECE
4	Bridge Address	32769
5	Cost(0/2;0/1;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

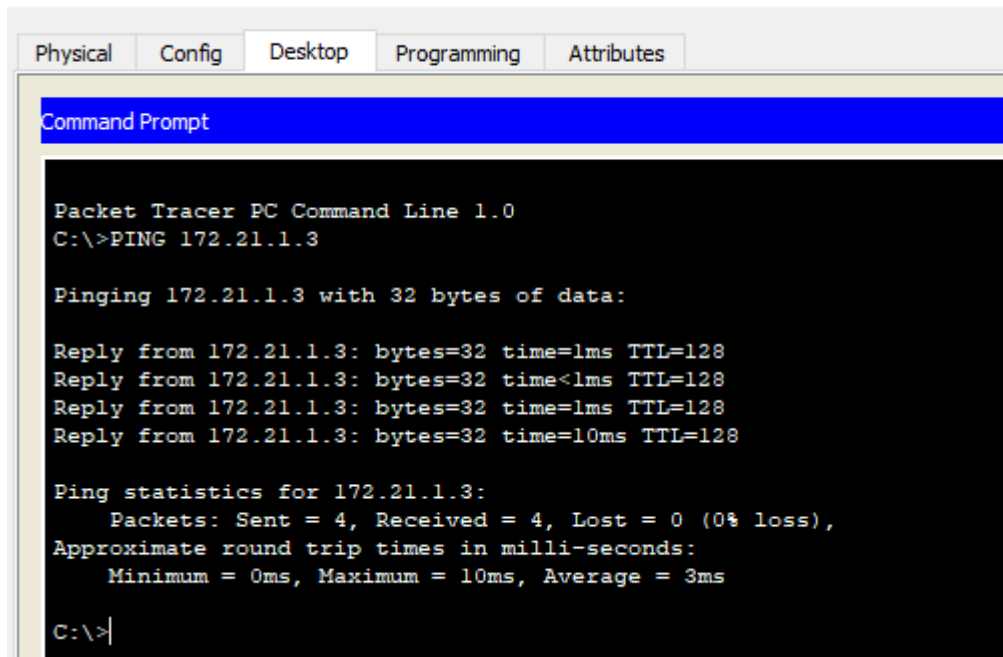
- Menjadi designated bridge: SW 2
- Menjadi root port : -
- Menjadi dsignated port : -

Tugas 4 D:

- Berada pada keadaan Forwarding : -
- Berada pada keadaan blocking : -

PING antara Leo dan Virgo

leo



The screenshot shows a Packet Tracer PC Command Line window for a device named 'leo'. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with 'Desktop' selected. The Command Prompt area displays the output of a ping command to 172.21.1.3. The output shows four successful replies with varying times (1ms, <1ms, 1ms, 10ms) and a TTL of 128. Ping statistics indicate 4 packets sent, 4 received, 0% loss, and an average round trip time of 3ms.

```
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=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=10ms 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 = 10ms, Average = 3ms

C:\>
```