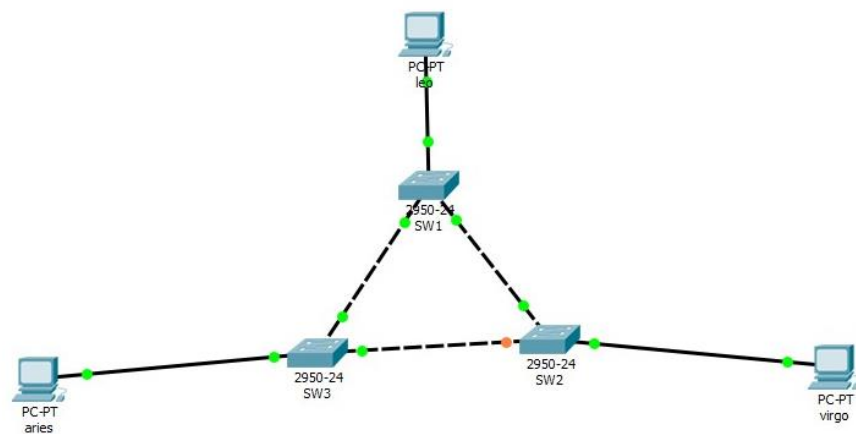


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NIM : L200180124
Kelas : C

MODUL 6

Kegiatan 1. Topologi 1

1a.



2a. Mengubah nama Switch dengan mode user atau privilege

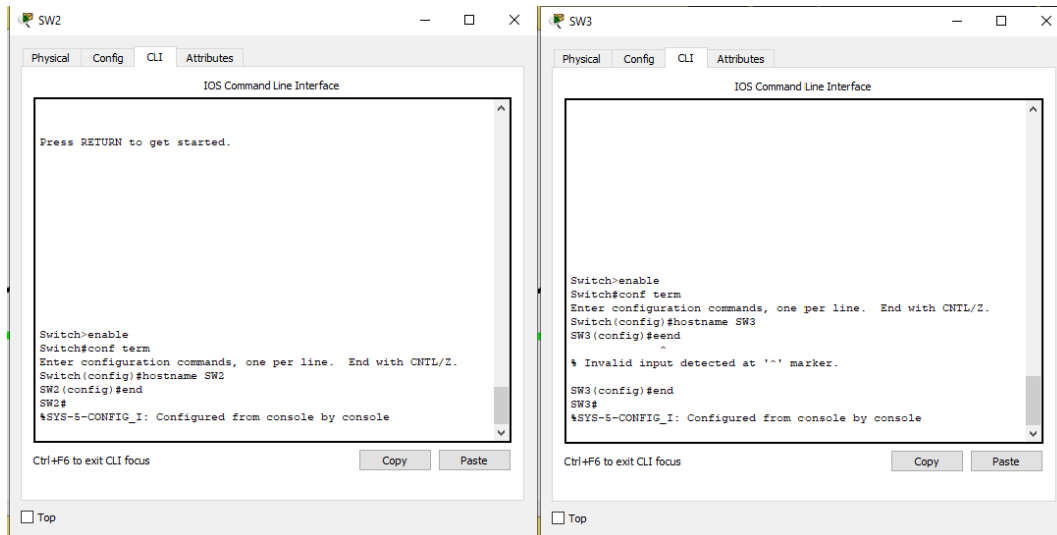
```
SW1
Physical Config CLI Attributes
IOS Command Line Interface
Press RETURN to get started.

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

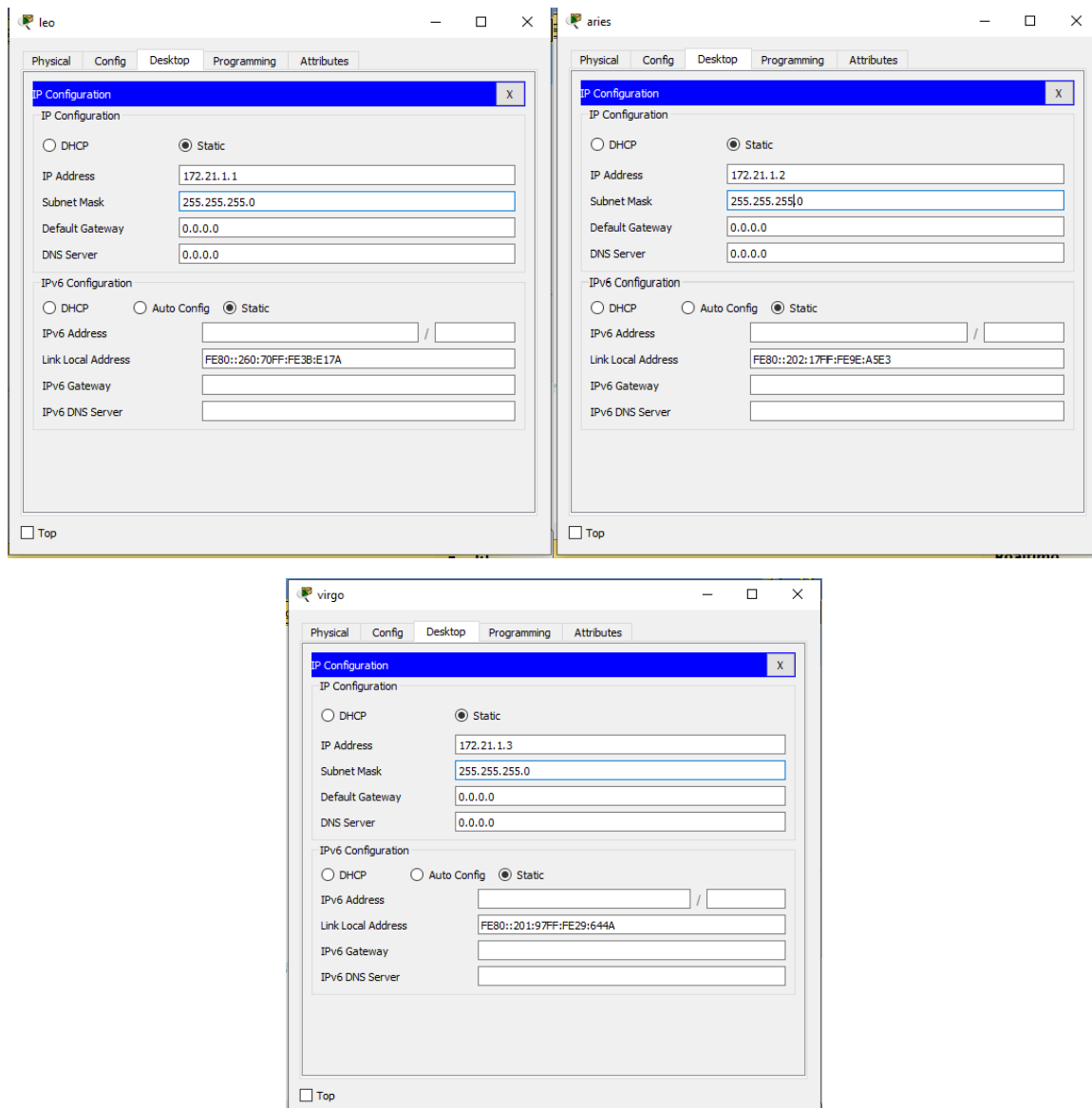
Ctrl+F6 to exit CLI focus

Copy Paste

Top



c. Konfigurasi PC



d.

SW1
Physical Config CLI Attributes

```

SW1#en
SW1#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority      32769
           Address     0010.11C3.1658
           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     0010.11C3.1658
           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

```

SW1#
Ctrl+F6 to exit CLI focus
Copy Paste

SW2
Physical Config CLI Attributes

```

SW2#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority      32769
           Address     0010.11C3.1658
           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     0060.70CC.E281
           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
Fa0/2     Altn BLK 19    128.2 P2p

```

SW2#
Ctrl+F6 to exit CLI focus
Copy Paste

SW3
Physical Config CLI Attributes

```

SW3#en
SW3#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority      32769
           Address     0010.11C3.1658
           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     0060.475B.AB15
           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     Root FWD 19    128.1 P2p

```

SW3#
Ctrl+F6 to exit CLI focus
Copy Paste

4b.

No	Variabel (SW1)	Nilai
1	Root ID	32769.0010.11C3.1658
2	Priority	32769
3	MAC Address	0010.11C3.1658
4	Bridge ID	32769.0010.11C3.1658
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

No	Variabel (SW2)	Nilai
1	Root ID	32769.0010.11C3.1658
2	Priority	32769
3	MAC Address	0060.70CC.E281
4	Bridge ID	32769.0060.70CC.E281
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

No	Variabel (SW3)	Nilai
1	Root ID	32769. 0010.11C3.1658
2	Priority	32769
3	MAC Address	0060.475B.AB15
4	Bridge ID	32769.0060.475B.AB15
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

4c.

- Menjadi root bridge : SW1
- Menjadi designated bridge : SW2 dan SW3
- Menjadi root port : SW2 : (Fa 0/1) dan SW3 : (Fa 0/1)
- Menjadi designated port : SW1 : (Fa 0/1, Fa 0/2, Fa 0/3); SW2 : (Fa 0/3); SW3 : (Fa 0/2, Fa 0/3)

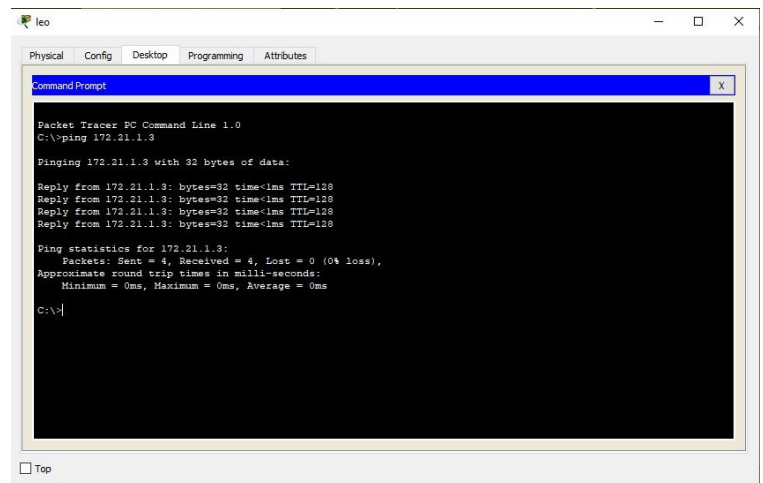
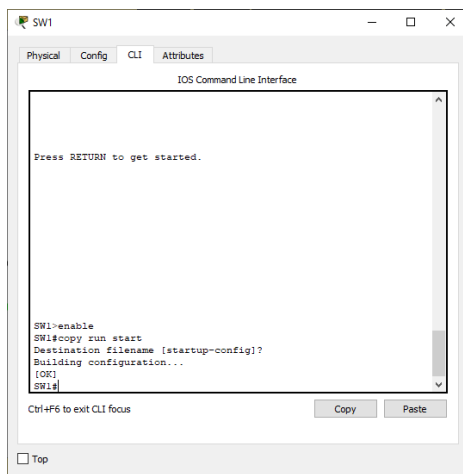
4d.

- Berada pada keadaan forwarding : SW1 : (Fa 0/1, Fa 0/2, Fa 0/3); SW2 : (Fa 0/1, Fa 0/3); SW3 : (Fa 0/1, Fa 0/2, Fa 0/3).
- Berada pada keadaan blocking : SW2 (Fa 0/2)

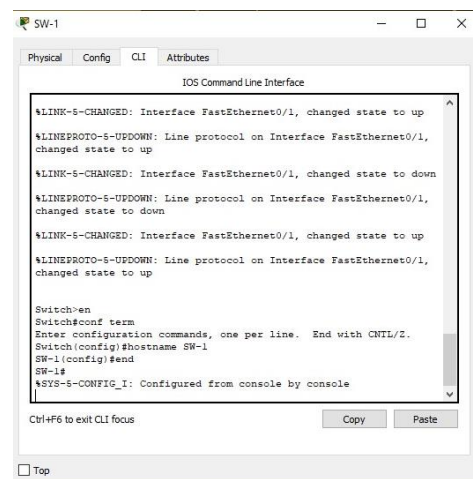
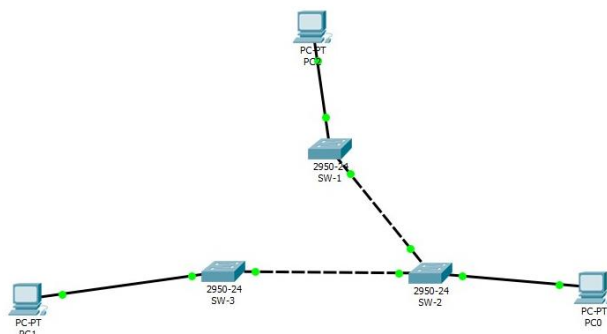
5a. Langkah pingging PC Leo ke PC Virgo

Masuk ke PC leo -> klik desktop -> pilih cmd -> ketik 'ping 172.21.1.3'.

6a.



Kegiatan 2. Topologi 2



Melihat status STP

The image displays three screenshots of Cisco IOS Command Line Interface (CLI) windows, each showing the output of the `show spanning-tree` command for a different switch (SW-1, SW-2, and SW-3). The windows are titled "SW-1", "SW-2", and "SW-3" respectively.

SW-1 Output:

```
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW-1
SW-1(config)#end
SW-1#
*SYS-5-CONFIG_I: Configured from console by console

SW-1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0001.6382.CE45
              Cost        38
              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    0009.7C59.9C25
              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
Fa0/1                    Root FWD 19      128.1    P2p
```

SW-2 Output:

```
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW-2
SW-2(config)#end
SW-2#
*SYS-5-CONFIG_I: Configured from console by console

SW-2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0001.6382.CE45
              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    00B0.A397.3567
              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
Fa0/2                    Root FWD 19      128.2    P2p
```

SW-3 Output:

```
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW-3
SW-3(config)#end
SW-3#
*SYS-5-CONFIG_I: Configured from console by console

SW-3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    0001.6382.CE45
              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    0001.6382.CE45
              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
Fa0/1                    Desg FWD 19      128.1    P2p
```

Table

No	Variabel (SW-1)	Nilai
1	Root ID	32769.0001.6382.CE45
2	Priority	32769
3	MAC Address	0009.7C93.9C25
4	Bridge ID	32769.0009.7C93.9C25
5	Cost(0/1; 0/2; 0/3)	19; 19; -
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

No	Variabel (SW-2)	Nilai
1	Root ID	32769.0001.6382.CE45
2	Priority	32769
3	MAC Address	00E0.A397.3567
4	Bridge ID	32769.00E0.A397.3567
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

No	Variabel (SW-2)	Nilai
1	Root ID	32769.0001.6382.CE45
2	Priority	32769
3	MAC Address	0001.6382.CE45
4	Bridge ID	32769.0001.6382.CE45
5	Cost(0/1; 0/2; 0/3)	19; 19; -
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

- Root bridge : SW - 3
- Designated bridge : SW - 2
- Root port : SW - 1 (Fa 0/1); SW - 2 (Fa 0/2)
- Designated port : SW - 1 (Fa 0/2); SW - 2 (Fa 0/1, Fa 0/3); SW - 3 (Fa 0/1, Fa 0/2)
- Forwarding : SW - 1 (Fa 0/1, Fa 0/2); SW - 2 (Fa 0/1, Fa 0/2, Fa 0/3); SW - 3 (Fa 0/1, Fa 0/2)
- Blocking : tidak ada

Menyimpan konfig

