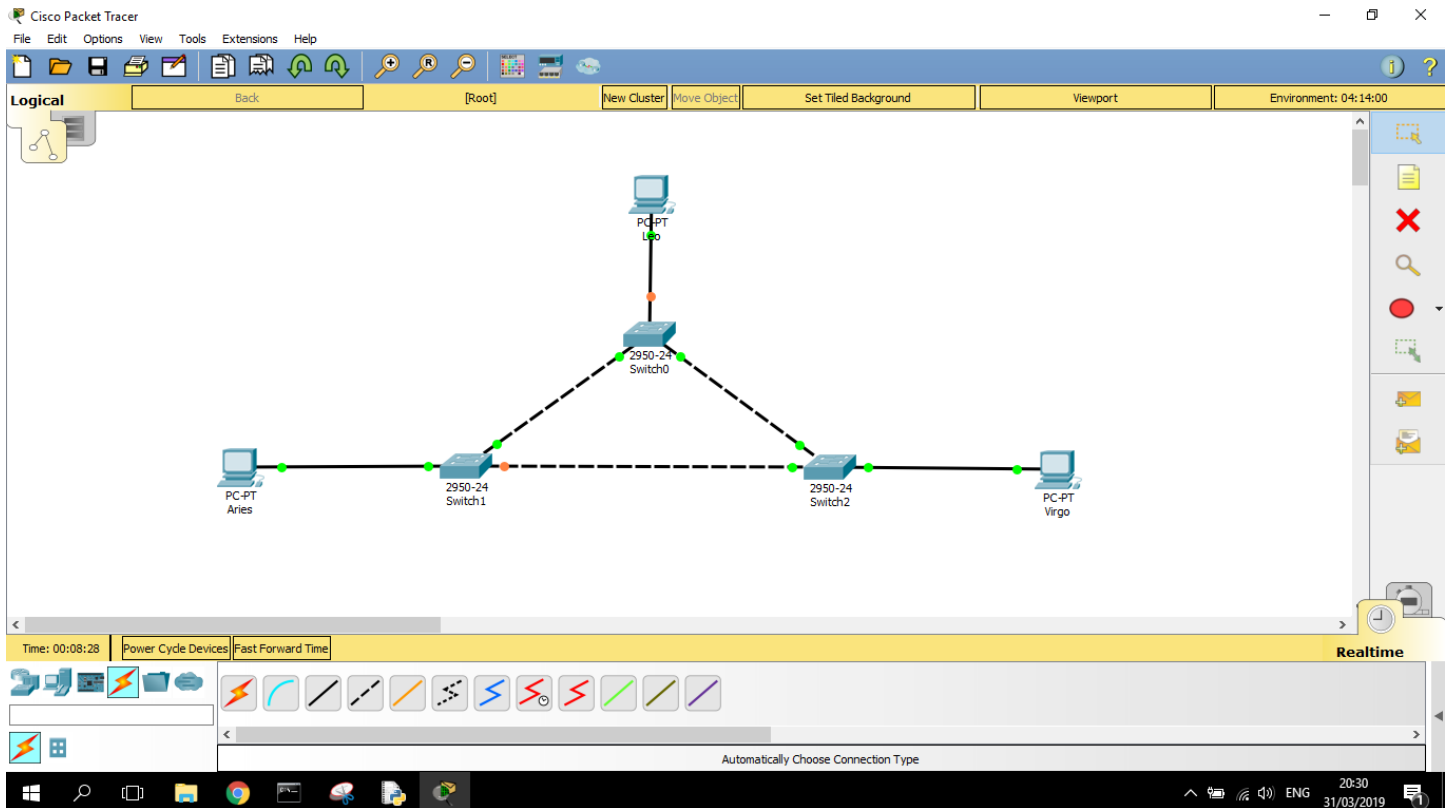


Nama : Alvian Harisnur
NIM : L200170132
Kelas : C
Modul : 6 (Spanning Tree Protocol)

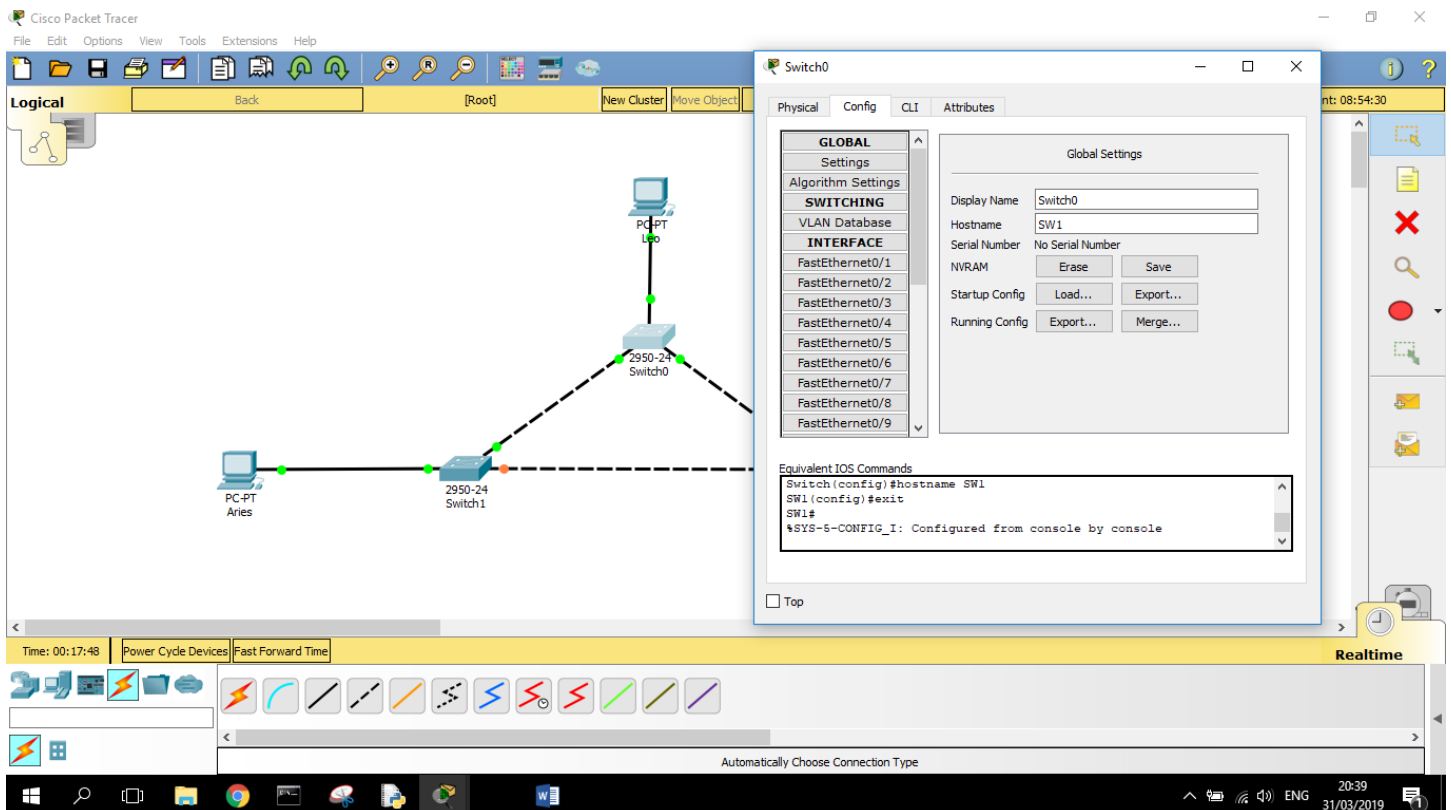
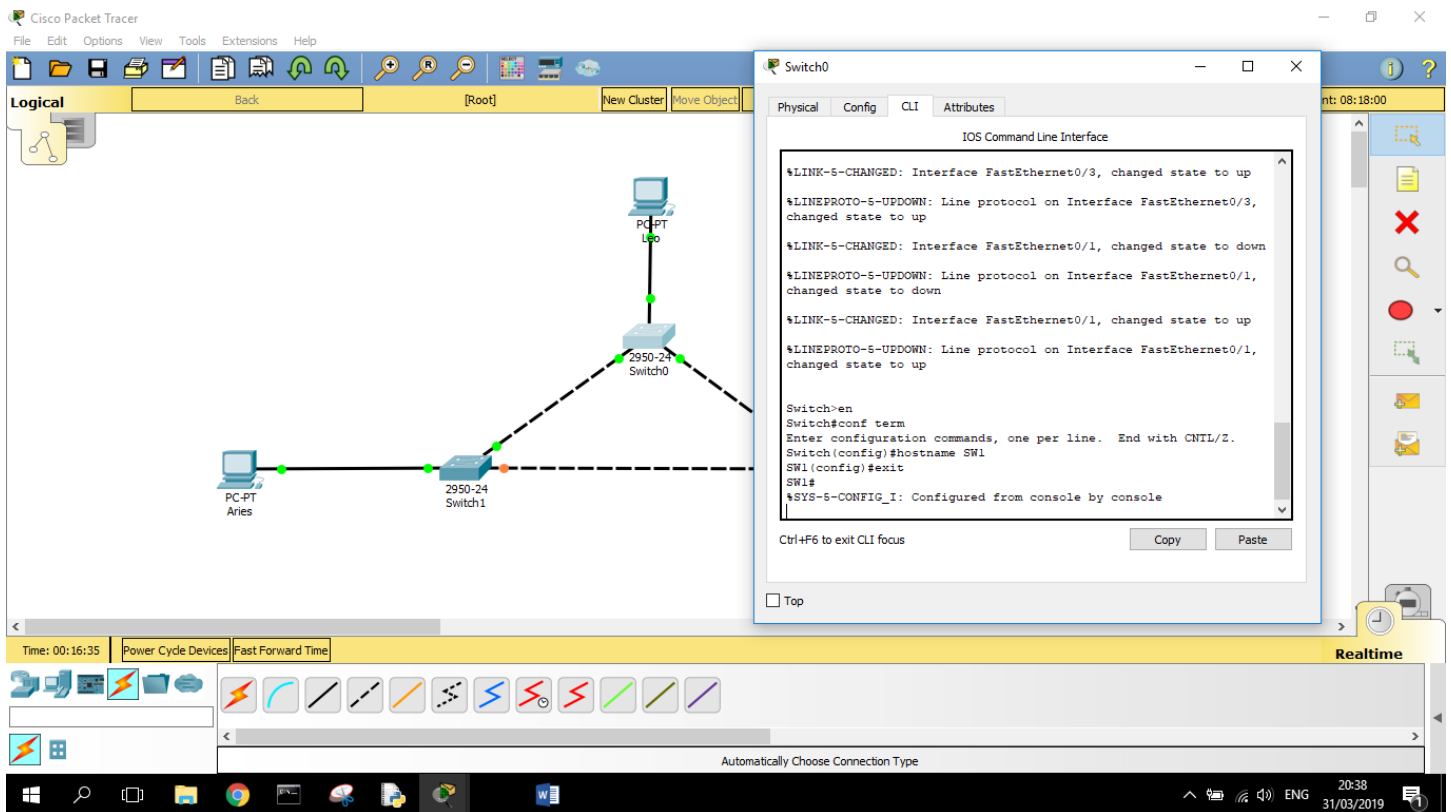
Kegiatan 1. Topologi 1

Tugas 1A



Tugas 2A : Pemberian nama switch

SW1



SW2

The screenshot shows the Cisco Packet Tracer interface for configuring a switch named SW2. The 'Config' tab is active, displaying the 'Global Settings' section. The 'Display Name' is set to 'Switch1' and the 'Hostname' is set to 'SW2'. The 'Serial Number' is 'No Serial Number'. The 'NVRAM' section has 'Erase' and 'Save' buttons. The 'Startup Config' section has 'Load...' and 'Export...' buttons. The 'Running Config' section has 'Export...' and 'Merge...' buttons. The 'Equivalent IOS Commands' section shows the following commands:

```
Switch(config)#hostname SW2
SW2(config)#exit
SW2#
%SYS-5-CONFIG_I: Configured from console by console
```

The 'Physical' tab is also visible, showing the switch connected to two PC-PT devices: 'Aries' and 'Virgo'. The 'Logical' tab is on the left, and the 'Realtime' tab is on the right. The bottom status bar shows the time as 00:19:28 and the environment as 09:44:30.

SW3

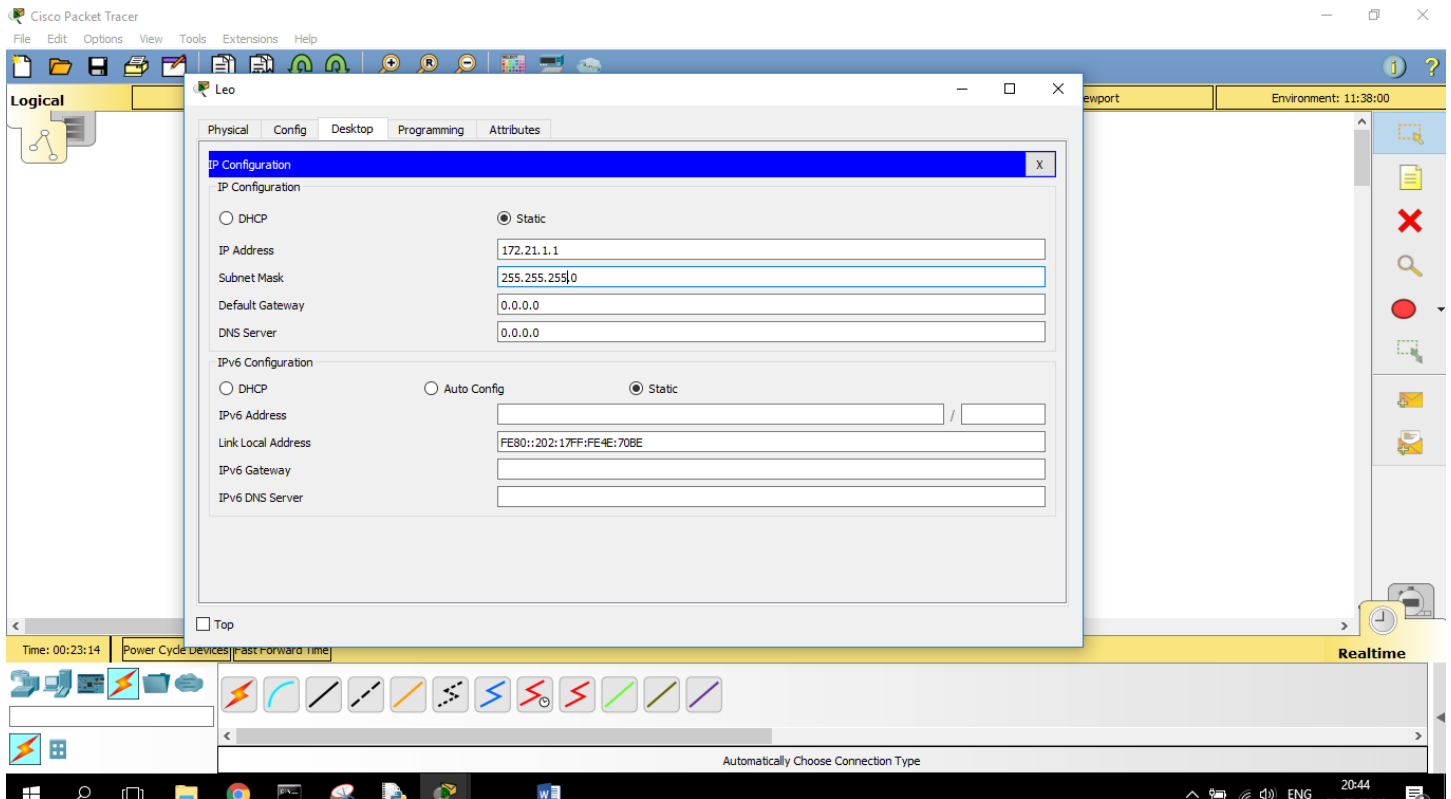
The screenshot shows the Cisco Packet Tracer interface for configuring a switch named SW3. The 'Config' tab is active, displaying the 'Global Settings' section. The 'Display Name' is set to 'Switch2' and the 'Hostname' is set to 'SW3'. The 'Serial Number' is 'No Serial Number'. The 'NVRAM' section has 'Erase' and 'Save' buttons. The 'Startup Config' section has 'Load...' and 'Export...' buttons. The 'Running Config' section has 'Export...' and 'Merge...' buttons. The 'Equivalent IOS Commands' section shows the following commands:

```
Switch(config)#hostname SW3
SW3(config)#exit
SW3#
%SYS-5-CONFIG_I: Configured from console by console
```

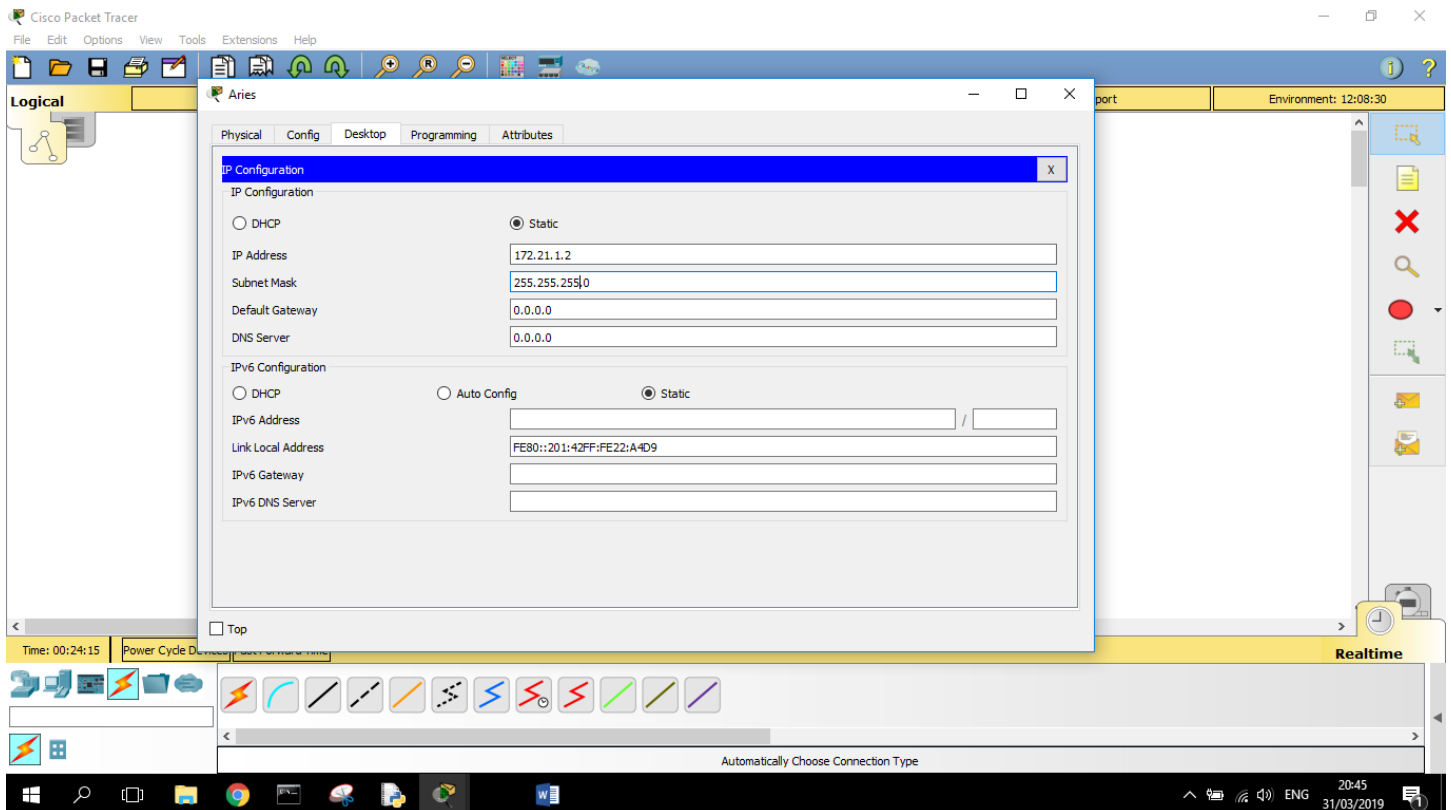
The 'Physical' tab is also visible, showing the switch connected to two PC-PT devices: 'Aries' and 'Virgo'. The 'Logical' tab is on the left, and the 'Realtime' tab is on the right. The bottom status bar shows the time as 00:20:15 and the environment as 10:08:00.

Tugas 3A

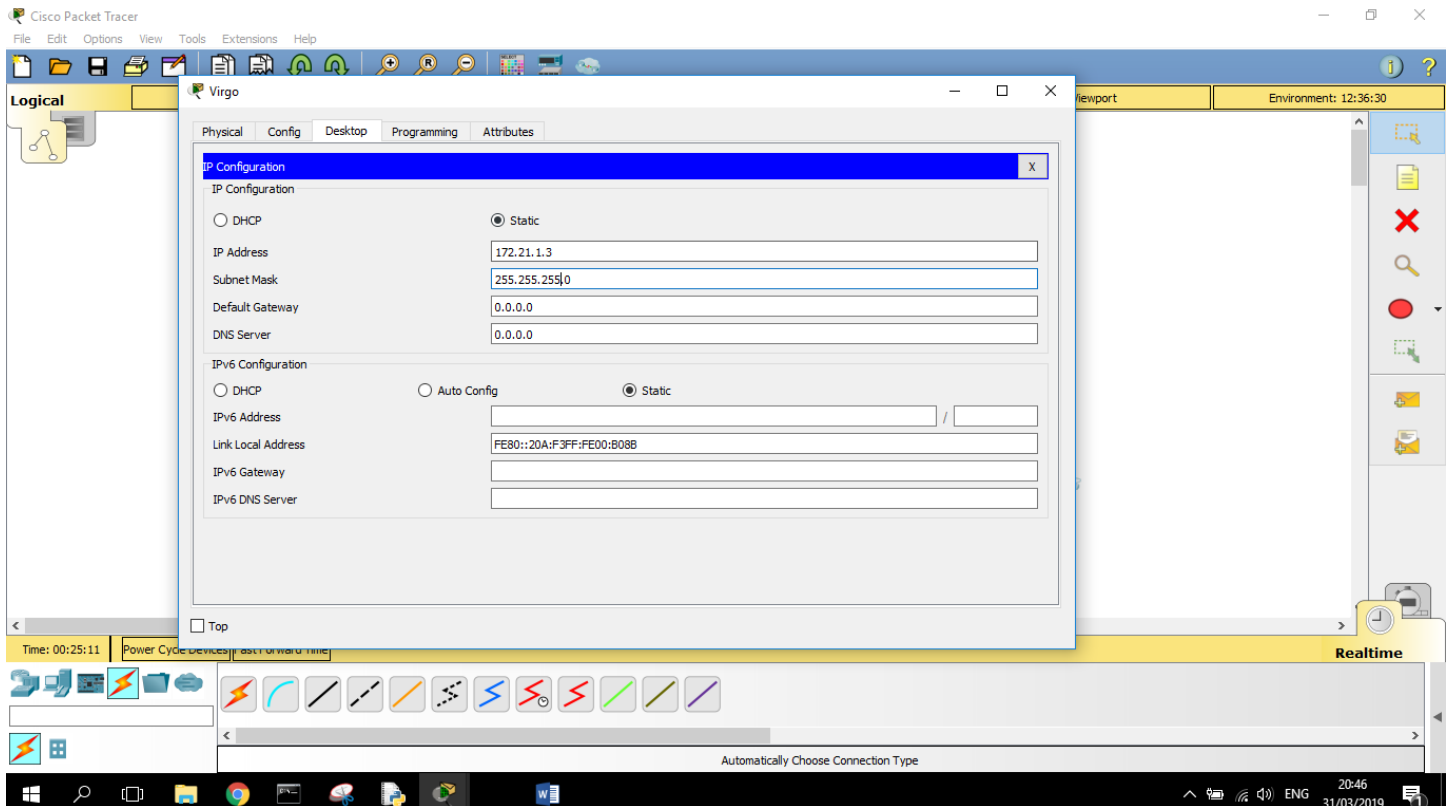
Konfigurasi IP pada PC Leo



Konfigurasi IP pada PC Aries



Konfigurasi IP pada PC Virgo



Tugas 4A

Status STP pada Switch 1

Time: 00:27:16 | Power Cycle Devices | Fast Forward Time

Environment: 13:39:30

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
SW1>en
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0090.21DE.B44E
             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     0090.21DE.B44E
             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
```

SW1#

Ctrl+F6 to exit CLI focus

Copy Paste

Top

PC-PT Aries

PC-PT Virgo

Automatically Choose Connection Type

20:48 31/03/2019

Status STP pada Switch 2

Time: 00:28:26 | Power Cycle Devices | Fast Forward Time

Environment: 14:14:30

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
SW2#en
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0090.21DE.B44E
             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     00D0.BAED.6AC3
             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      Altn BLK 19    128.3 P2p
```

SW2#

Ctrl+F6 to exit CLI focus

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Top

PC-PT Aries

PC-PT Virgo

Automatically Choose Connection Type

20:50 31/03/2019

Status STP pada Switch 3

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Back

Switch2

Physical Config CLI Attributes

IOS Command Line Interface

```
SW3#en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0090.21DE.B44E
             Cost        19
             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     00D0.EA30.4955
             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
```

SW3#

Ctrl+F6 to exit CLI focus

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PC-PT Aries

PC-PT Virgo

Time: 00:29:22 Power Cycle Devices Fast Forward Time

Realtime

Automatically Choose Connection Type

20:51 31/03/2019

Tugas 4B

SW1

No	Variabel	Nilai
1	Root ID	32769.0090.21DE.B44E
2	Priority	32769
3	MAC Address	0090.21DE.B44E
4	Bridge ID	32769.0090.21DE.B44E
5	Cost(0/1, 0/2, 0/3)	0/1 : 19 0/2 : 19 0/3 : 19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	32769.0090.21DE.B44E
2	Priority	32769
3	MAC Address	00D0.BAED.6AC9
4	Bridge ID	32769.00D0.BAED.6AC9
5	Cost(0/1, 0/2, 0/3)	0/1 : 19 0/2 : 19 0/3 : 19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	32769.0090.21DE.B44E
2	Priority	32769
3	MAC Address	00D0.BA30.4959
4	Bridge ID	32769.00D0.BA30.4959
5	Cost(0/1, 0/2, 0/3)	0/1 : 19 0/2 : 19 0/3 : 19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

Tugas 4C

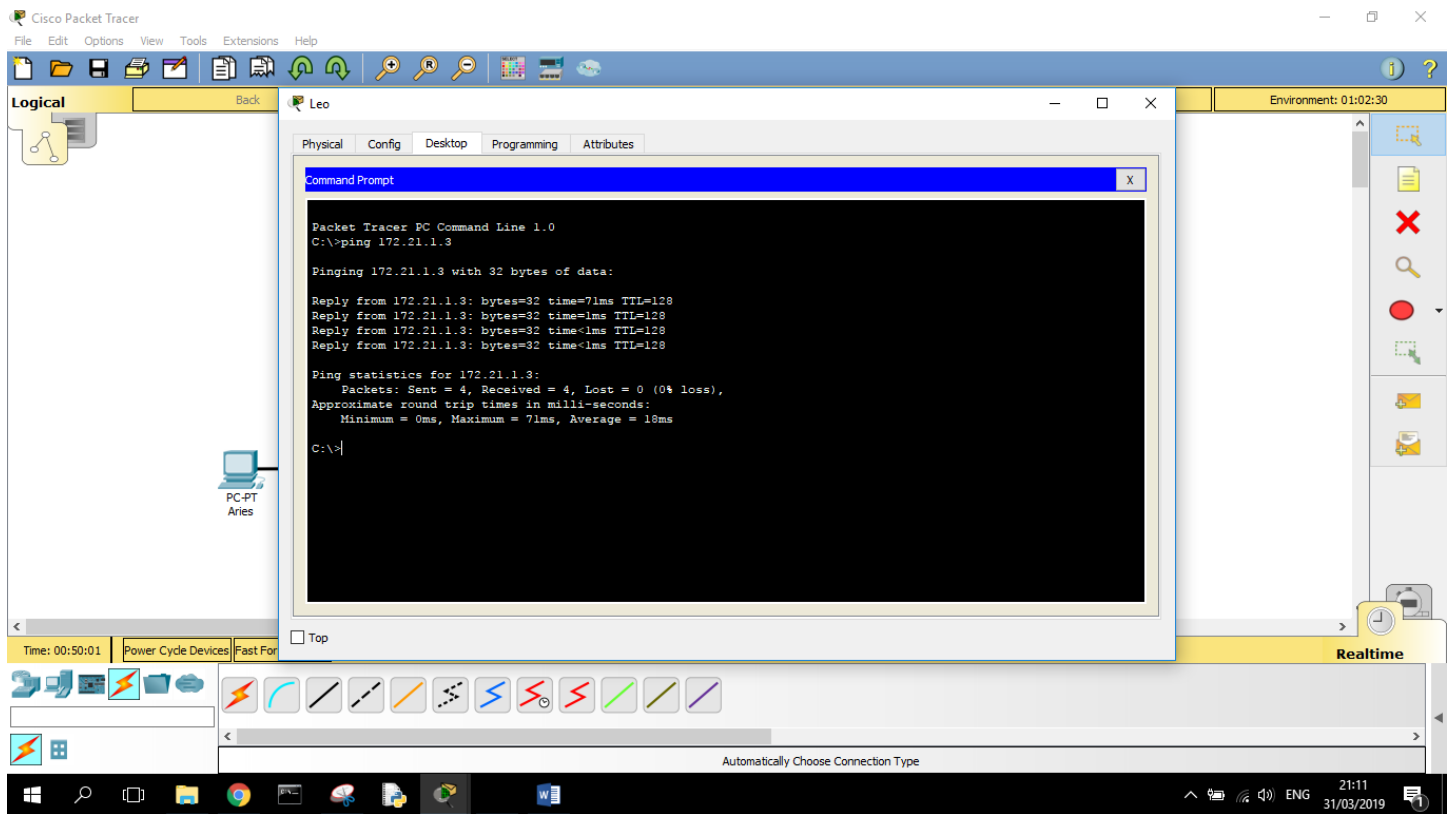
- Root Bridge : SW1
- Designated Bridge : SW2
- Root Port : Switch1 0/3 dan Switch2 0/3 - Designated Port : Switch 1 0/2

Tugas 4D

- Keadaan Forwarding : Switch1 dan Switch2
- Keadaan Blocking : Switch 2

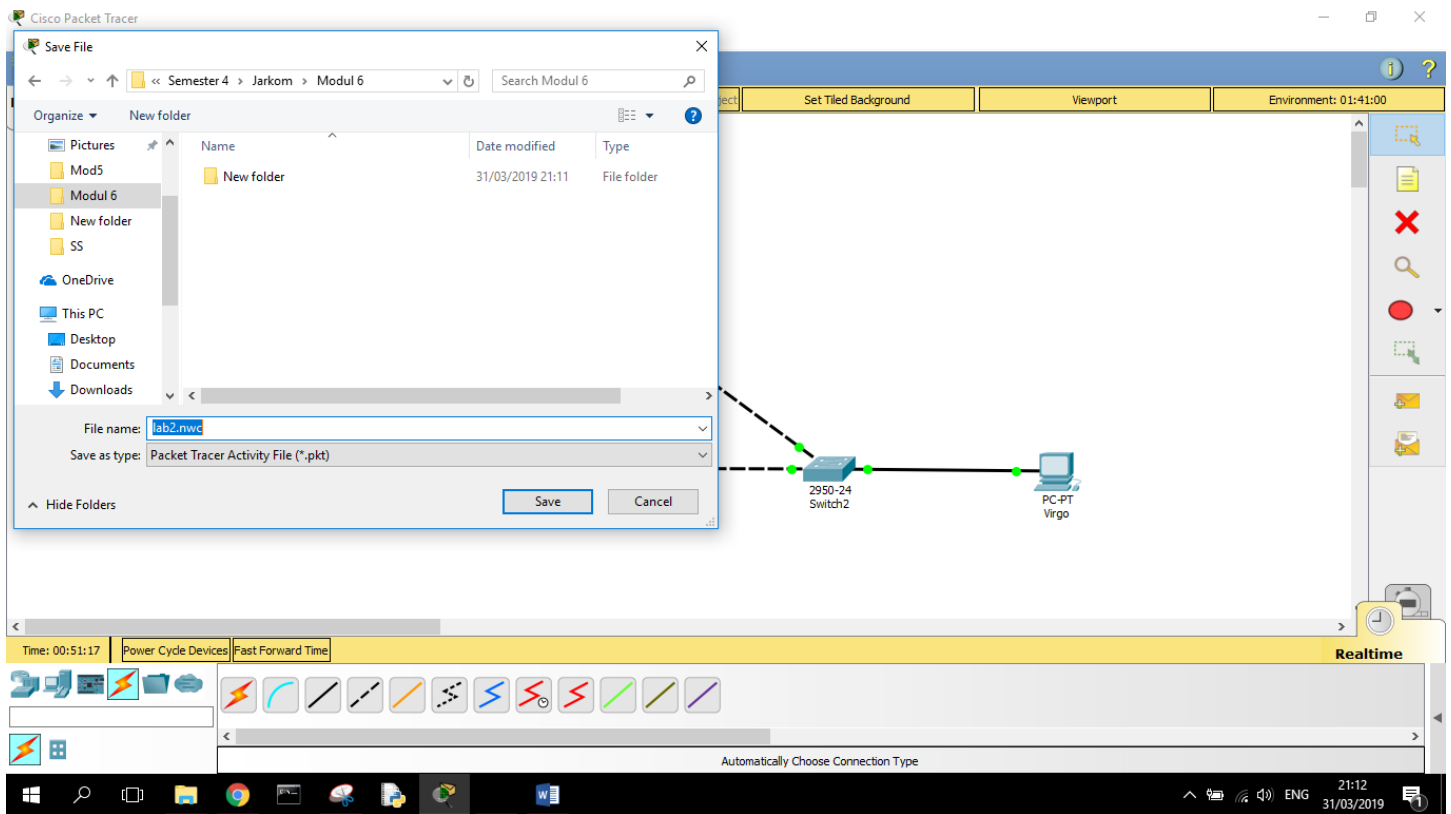
Tugas 5A

Lakukan ping dari PC Leo ke Virgo



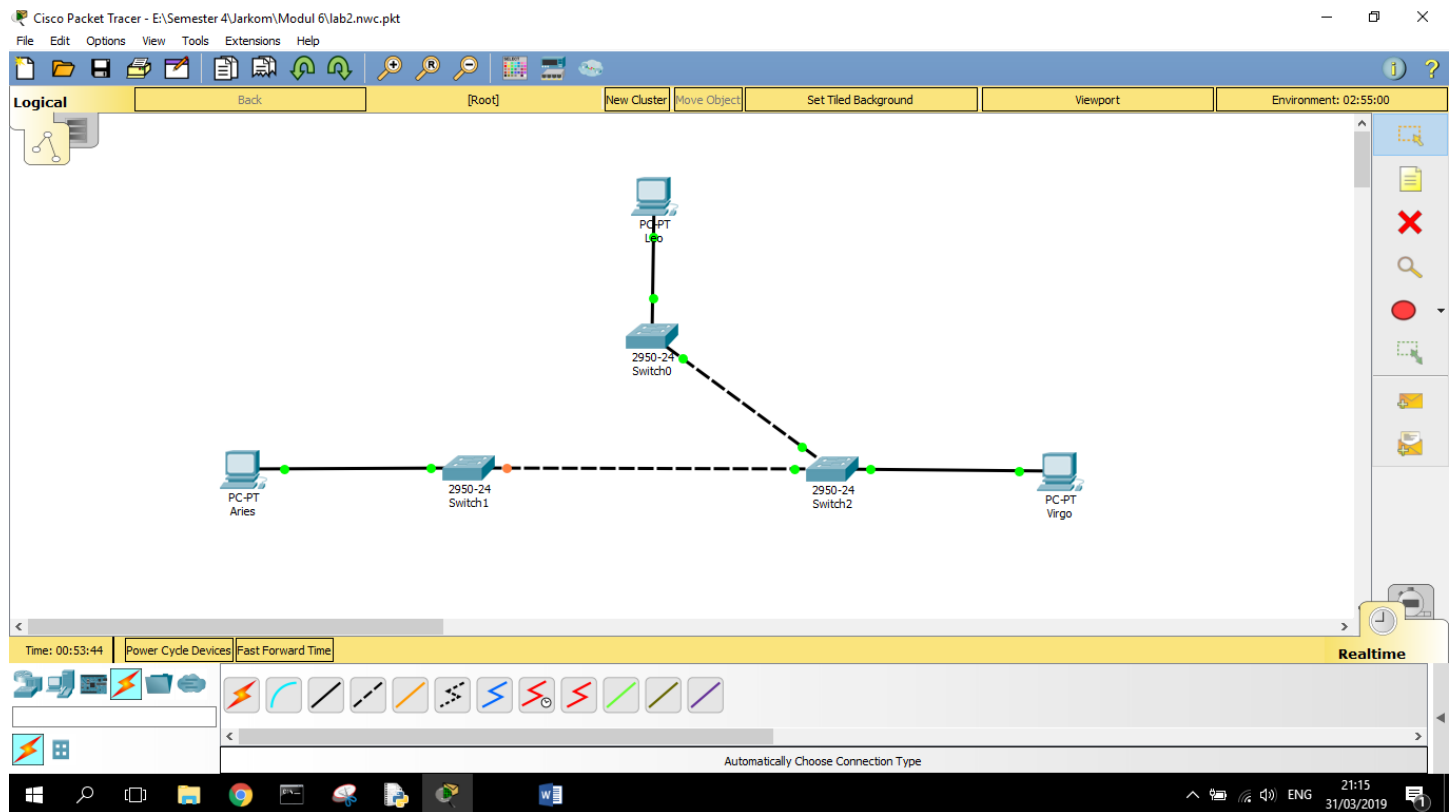
Tugas 6A

Simpan konfigurasi jaringan dengan nama “lab2.nwc”

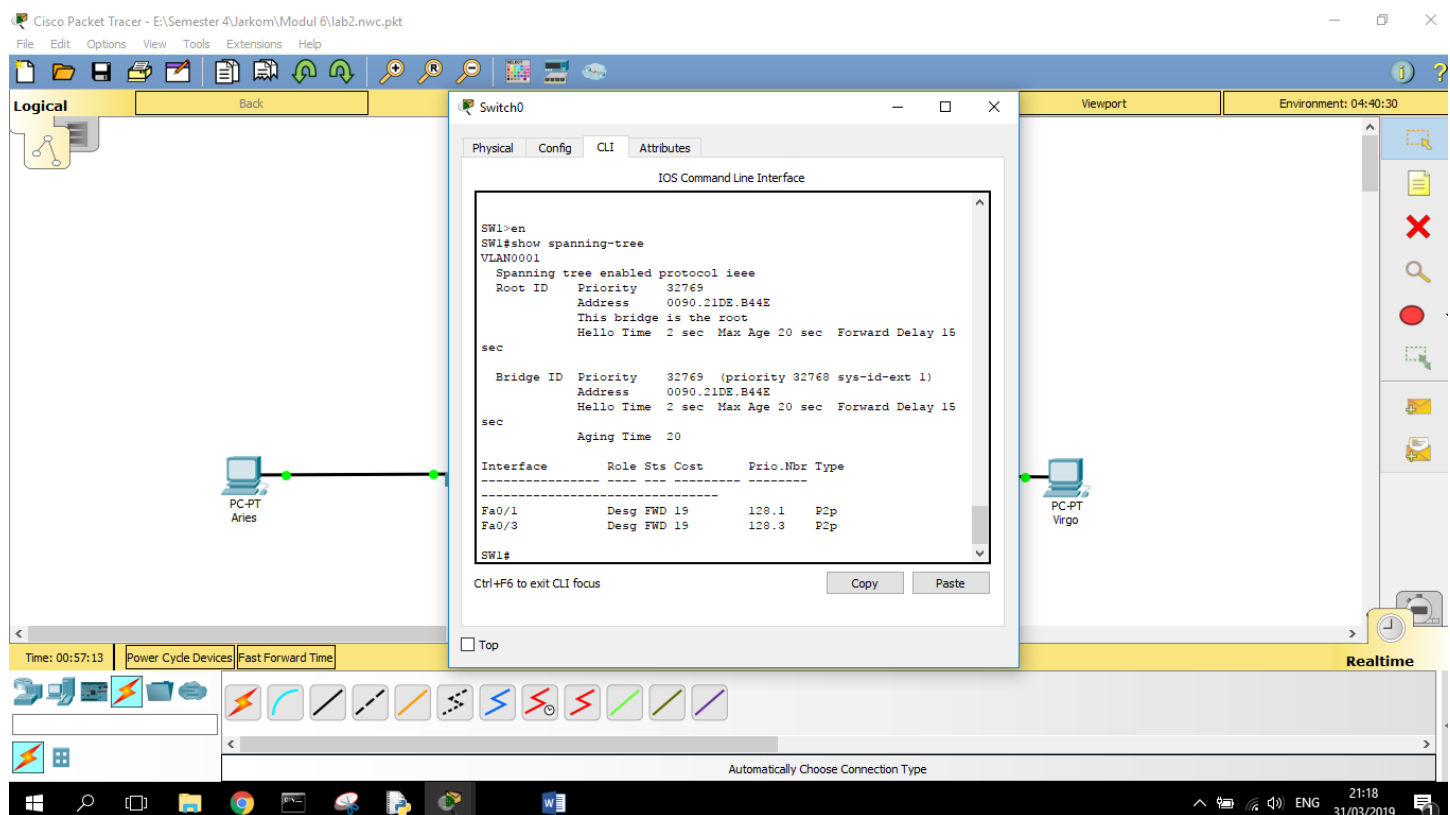


Kegiatan 2. Topologi 2.

Bentuk Topologi diubah



Status STP pada SW1



Status STP pada SW2

Cisco Packet Tracer - E:\Semester 4\Jarkom\Modul 6\lab2.nwc.pkt

File Edit Options View Tools Extensions Help

Logical Back Switch1 Viewport Environment: 05:24:30

Physical Config CLI Attributes

IOS Command Line Interface

```
SW2>en
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0090.21DE.B44E
             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     00D0.BAED.6AC9
             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
```

SW2#

Ctrl+F6 to exit CLI focus

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Time: 00:58:41 Power Cycle Devices Fast Forward Time

Realtime

Automatically Choose Connection Type

21:20 31/03/2019

Status STP pada SW3

Cisco Packet Tracer - E:\Semester 4\Jarkom\Modul 6\lab2.nwc.pkt

File Edit Options View Tools Extensions Help

Logical Back Switch2 Viewport Environment: 05:44:30

Physical Config CLI Attributes

IOS Command Line Interface

```
SW3>en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0090.21DE.B44E
             Cost        19
             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     00D0.BA30.4959
             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
```

SW3#

Ctrl+F6 to exit CLI focus

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Time: 00:59:21 Power Cycle Devices Fast Forward Time

Realtime

Automatically Choose Connection Type

21:21 31/03/2019

SW1

No	Variabel	Nilai
1	Root ID	32769.0090.21DE.B44E
2	Priority	32769
3	MAC Address	0090.21DE.B44E
4	Bridge ID	32769.0090.21DE.B44E
5	Cost(0/1, 0/2, 0/3)	0/1 : 19 0/2 : 19 0/3 : 19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	32769.0090.21DE.B44E
2	Priority	32769
3	MAC Address	00D0.BAED.6AC9
4	Bridge ID	32769.00D0.BAED.6AC9
5	Cost(0/1, 0/2, 0/3)	0/1 : 19 0/2 : 19 0/3 : 19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	32769.0090.21DE.B44E
2	Priority	32769
3	MAC Address	00D0.BA30.4959
4	Bridge ID	32769.00D0.BA30.4959
5	Cost(0/1, 0/2, 0/3)	0/1 : 19 0/2 : 19 0/3 : 19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

Ping PC Leo ke Virgo

