

Nama : Aris Rahmat Fatoni

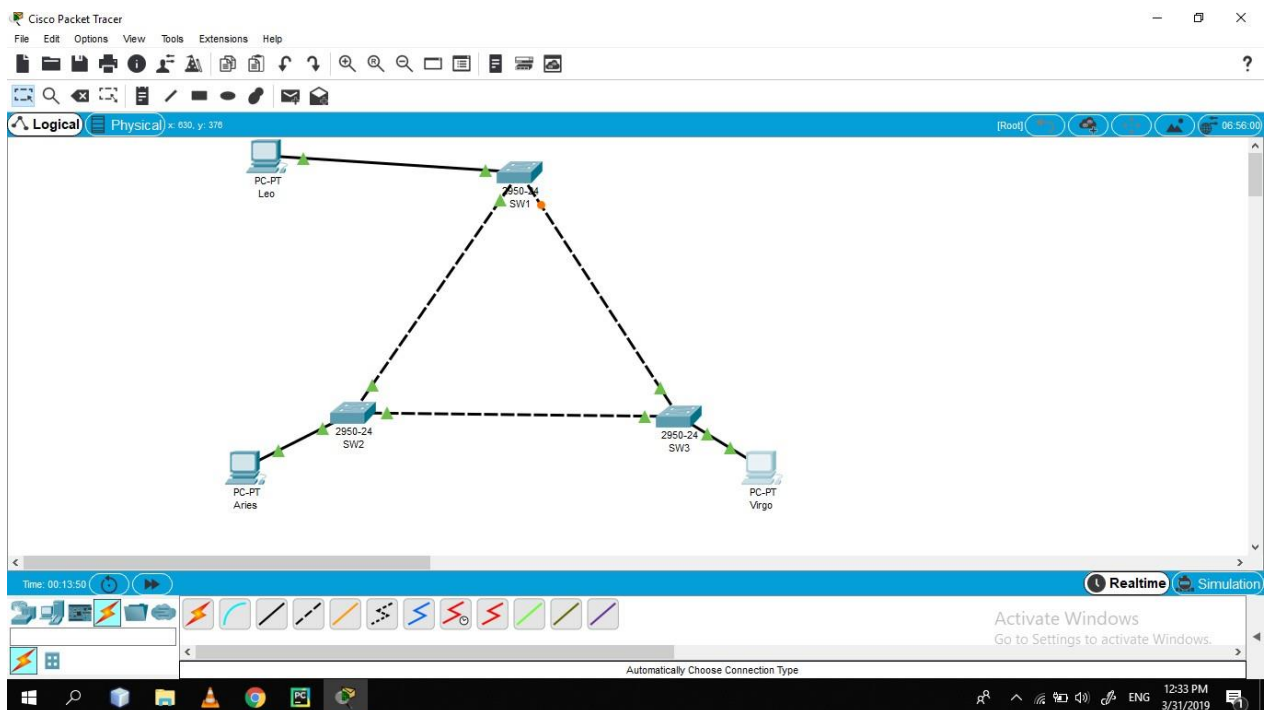
Nim : L200174081

Kelas : D

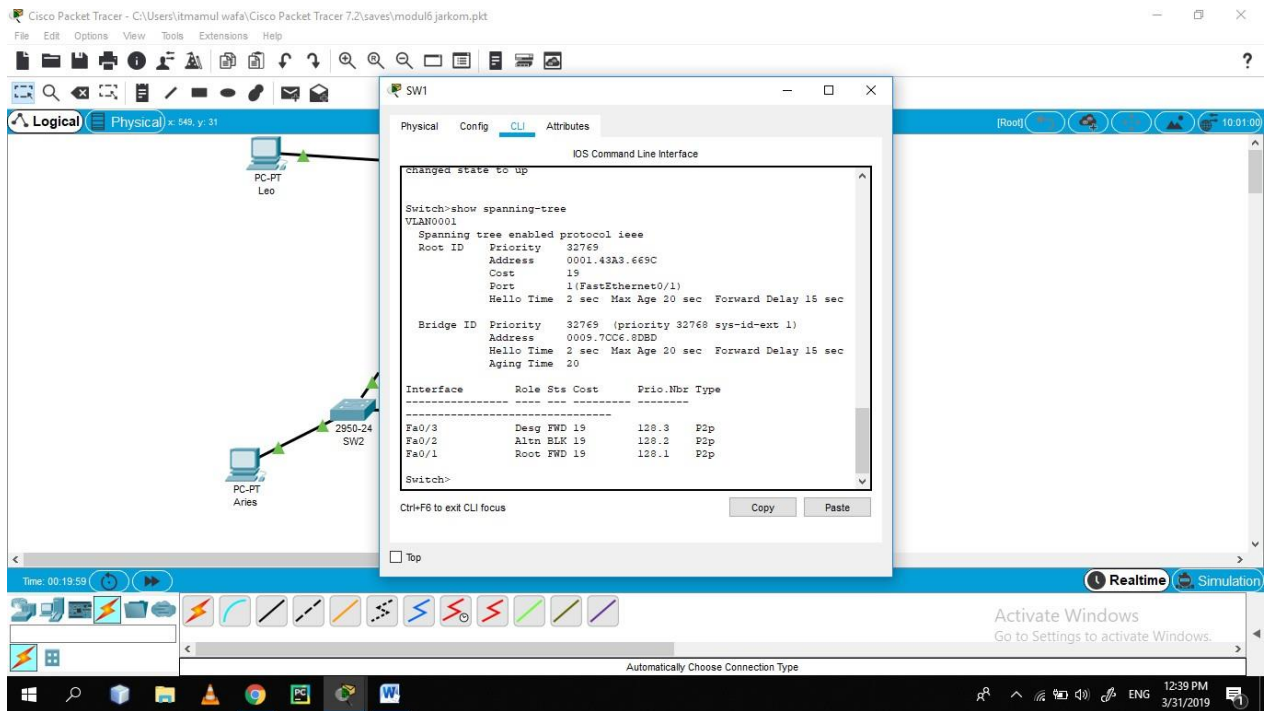
## Tugas Praktikum Jaringan Komputer Modul 6

### Kegiatan 1

1. Buatlah toologi dengan 3 switch dan 3 workstation
2. Lalu namai setiap switch dengan (SW1, SW2, SW3) dan Workstationnya diberi nama (Leo, Aries, Virgo).

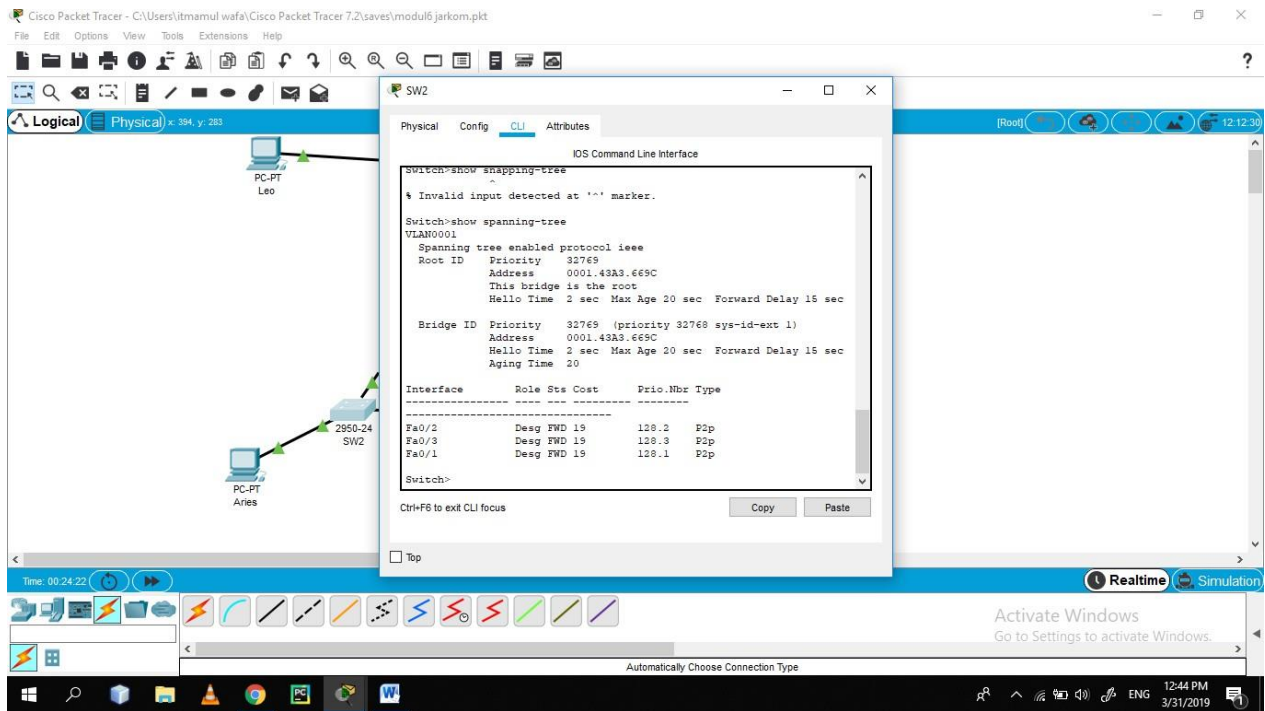


3. Selanjutnya setiap workstation diberi IP Address
  - a. Leo = 172.21.1.1/24
  - b. Aries = 172.21.1.2/24
  - c. Virgo = 172.21.1.3/24
4. Pada mode user atau mode privileged, lihatlah status STP
  - a. Switch 1



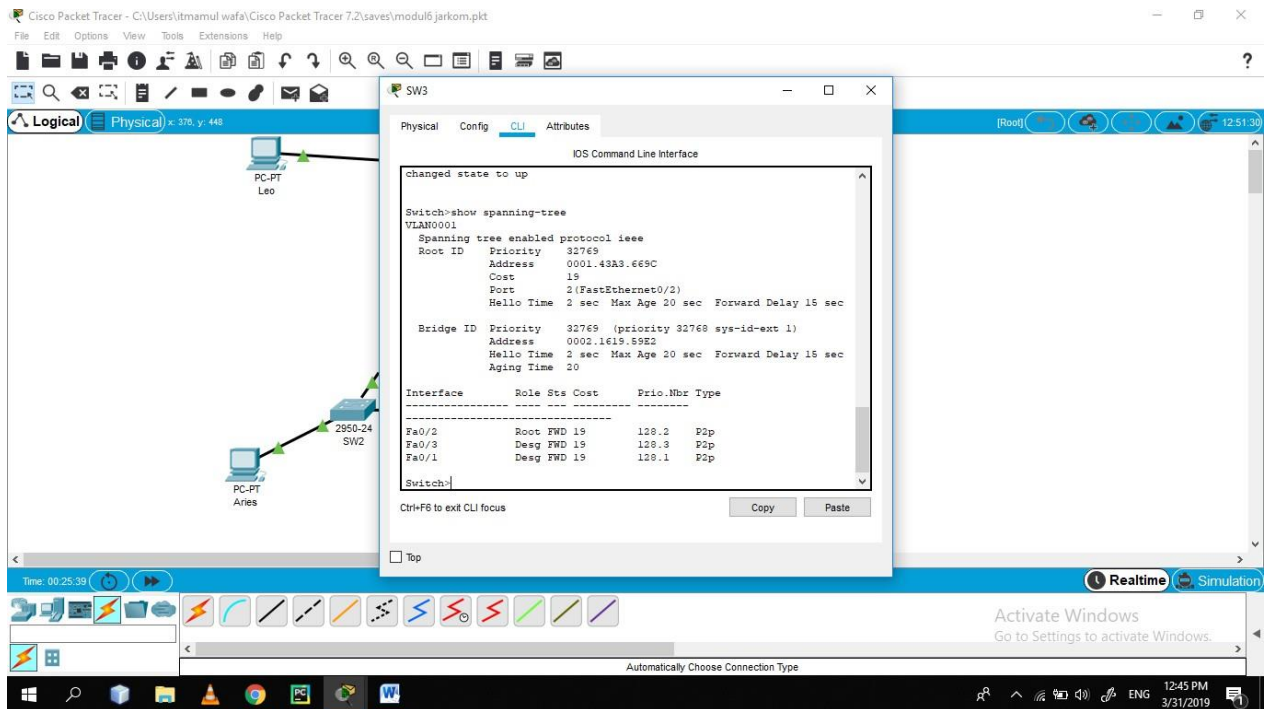
No	Variable	Nilai
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.43A3.669C
4	Bridge ID	
5	Cost (0/1; 0/2; 0/3)	19; 19; 19
6	Hello Time	2 sec
7	Max Age	20sec
8	Forward Delay	15 sec

b. Switch 2



No	Variable	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.43A3.669C
4	Bridge ID	
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 3



No	Variable	Nilai
1	Root ID	
2	Priority	32769
3	MAC Address	0001.43A3.669C
4	Bridge ID	
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

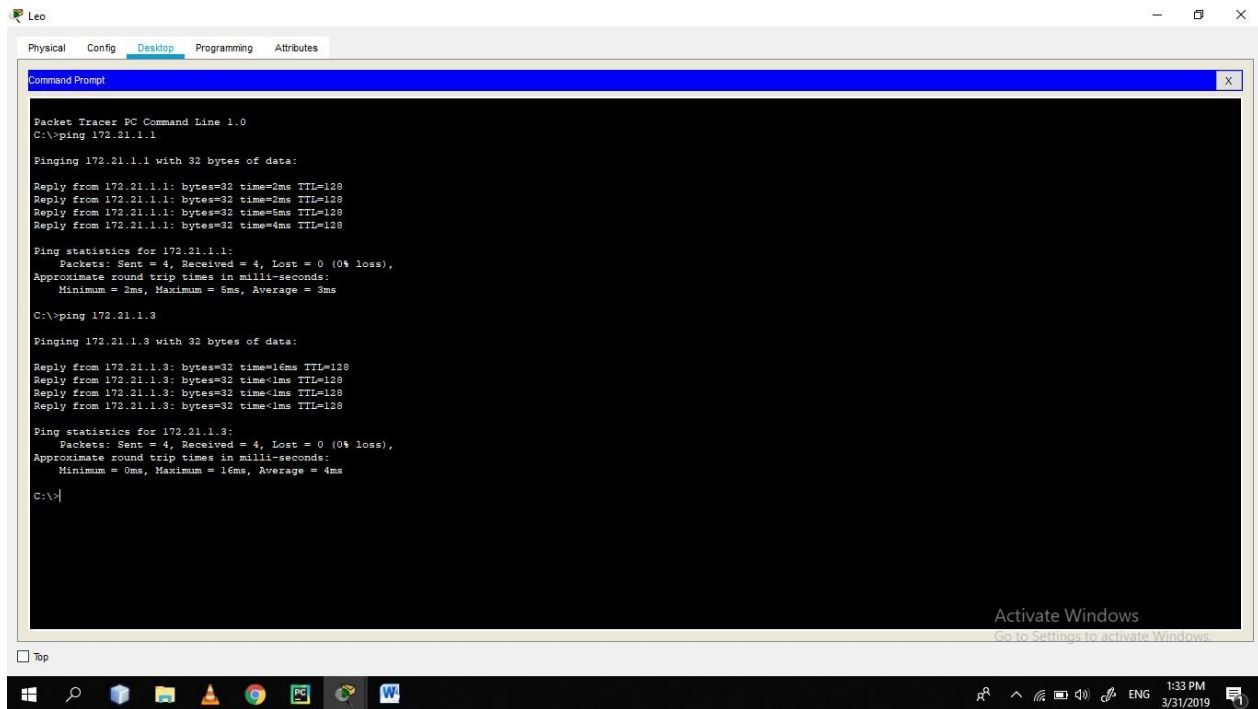
d. Pada kondisi default, Switch dan port mana saja yang:

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

e. Pada kondisi default, port mana saja yang :

- Berada pada keadaan forwarding :SW1(Fa 0/1; 0/3), SW2(Fa 0/1; 0/2; 0/3), SW3(Fa0/1; 0/2; 0/3)
- Berada pada keadaan blocking : SW1(Fa 0/2)

5. Ping dari Pc Leo ke PC Virgo



```
Packets Tracer PC Command Line 1.0
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=2ms TTL=128
Reply from 172.21.1.1: bytes=32 time=5ms TTL=128
Reply from 172.21.1.1: bytes=32 time=4ms TTL=128
Reply from 172.21.1.1: bytes=32 time=4ms TTL=128

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 5ms, Average = 3ms

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

C:\>
```

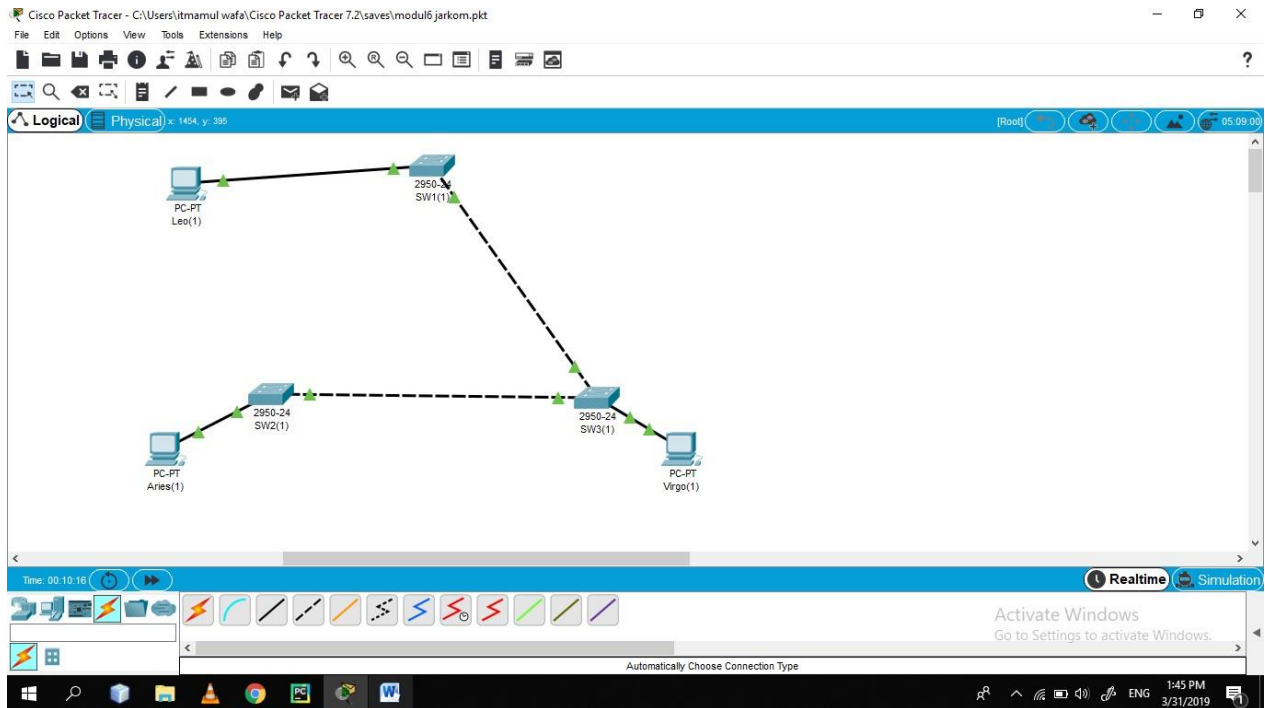
Pertama kita masuk ke desktop pada Pc Leo lalu pilih command prompt lalu ketikan 'ping 172.21.1.3', lalu tunggu prosesnya.

6. Langkah dalam penyimpanan konfigurasi jaringan yaitu;

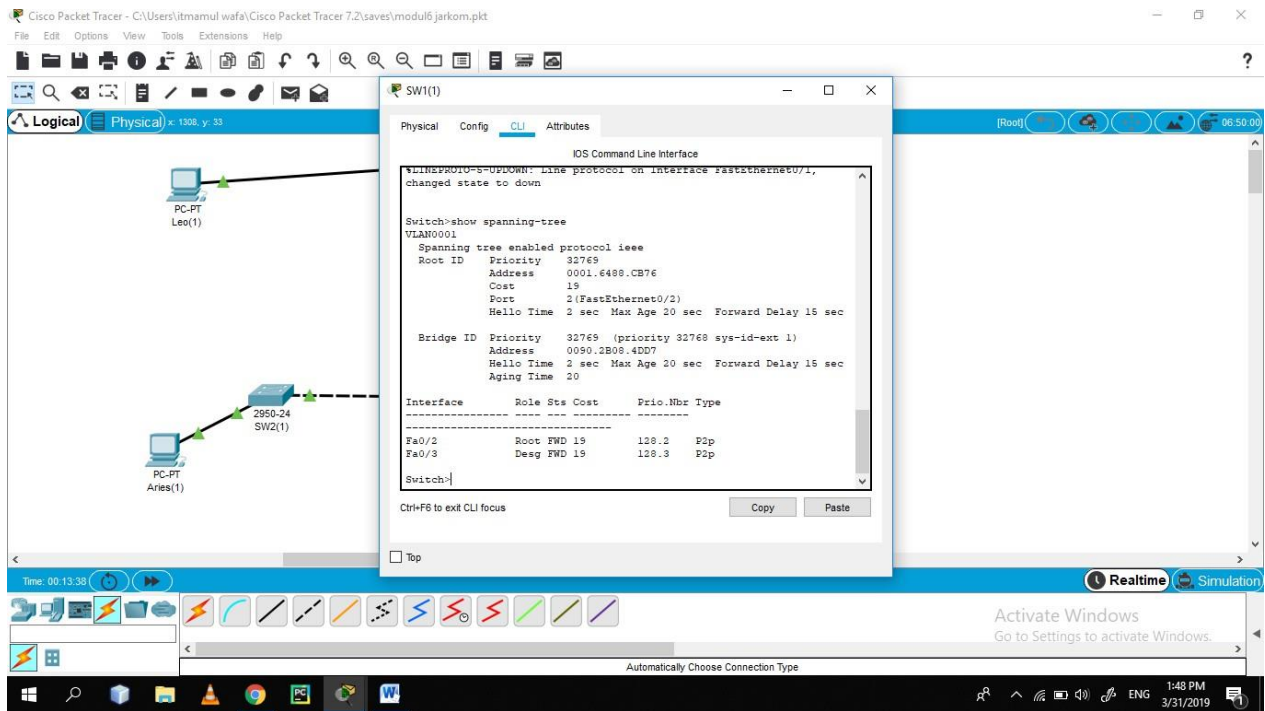
Pertama kita bisa langsung memilih pilihan distatus bar diatar, cari icon save. Yang kedua, adalah dengan cara memilih file lalu pilih save, setelah itu pilih tempat dan beri nama data tersebut.

## Kegiatan 2

- 1) Buatlah toologi dengan 3 switch dan 3 workstation
- 2) Lalu namai setiap switch dengan (SW1, SW2, SW3) dan Workstationnya diberi nama (Leo,Aries, Virgo).

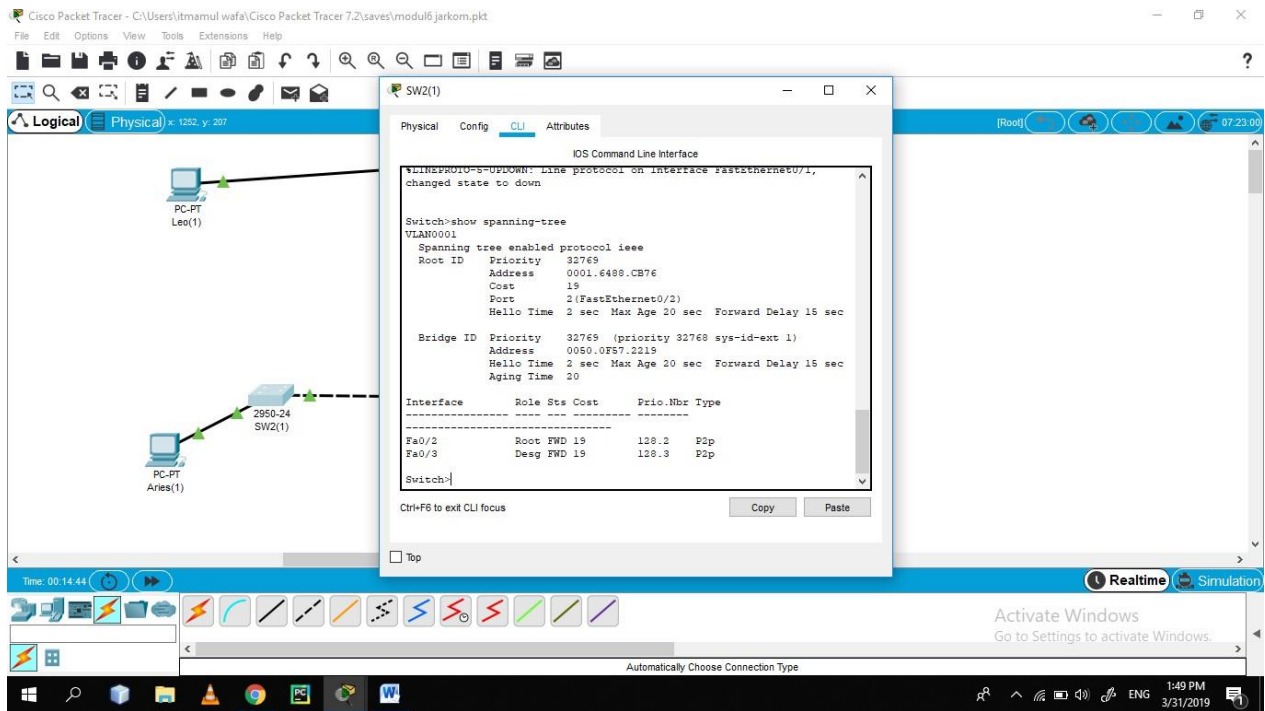


- 3) Selanjutnya setiap workstation diberi IP Address
  - d. Leo = 172.21.1.1/24
  - e. Aries = 172.21.1.2/24
  - f. Virgo = 172.21.1.3/24
- 4) Pada mode user atau mode privileged, lihatlah status STP
  - a. Switch 1



No	Variable	Nilai
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.6488.CB76
4	Bridge ID	
5	Cost (0/1; 0/2; 0/3)	-; 19; 19
6	Hello Time	2 sec
7	Max Age	20sec
8	Forward Delay	15 sec

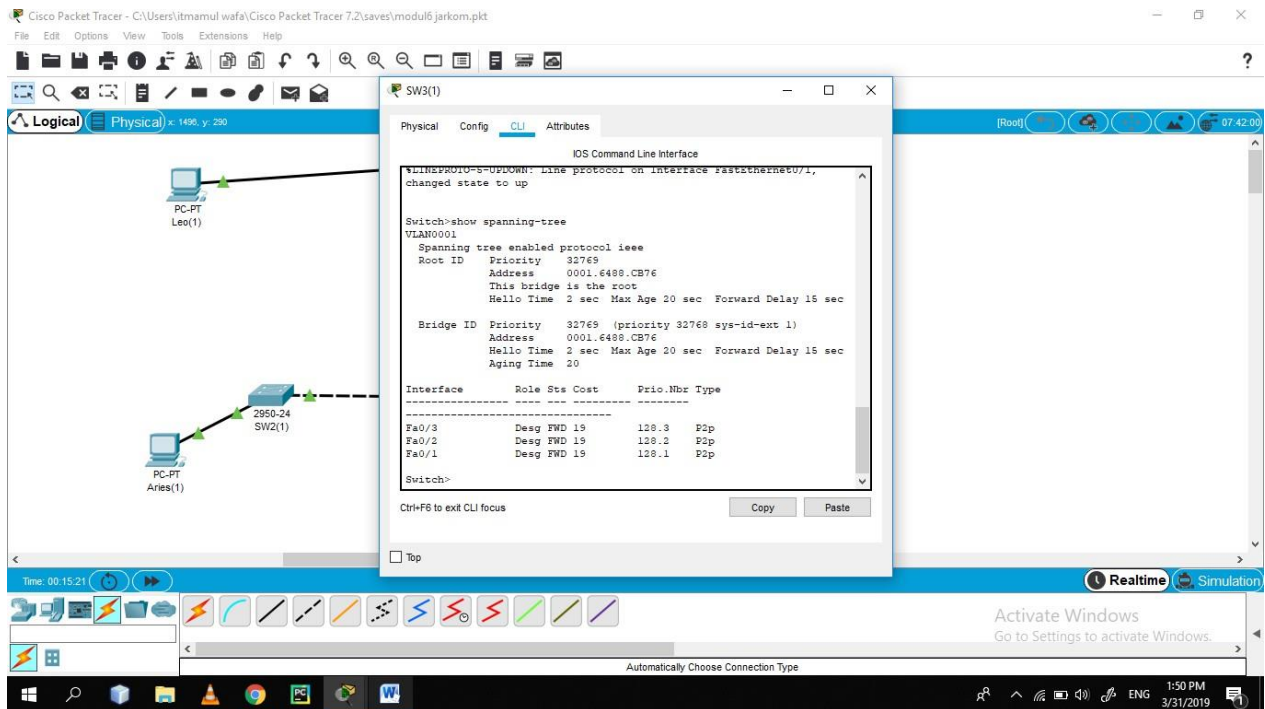
b. Switch 2



No	Variable	Nilai
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.6488.CB76
4	Bridge ID	
5	Cost (0/1; 0/2; 0/3)	-; 19; 19
6	Hello Time	2 sec
7	Max Age	20sec
8	Forward Delay	15 sec

c. Switch 3





No	Variable	Nilai
1	Root ID	
2	Priority	32769
3	MAC Adress	0001.6488.CB76
4	Bridge ID	
5	Cost (0/1; 0/2; 0/3)	19; 19; 19
6	Hello Time	2 sec
7	Max Age	20sec
8	Forward Delay	15 sec

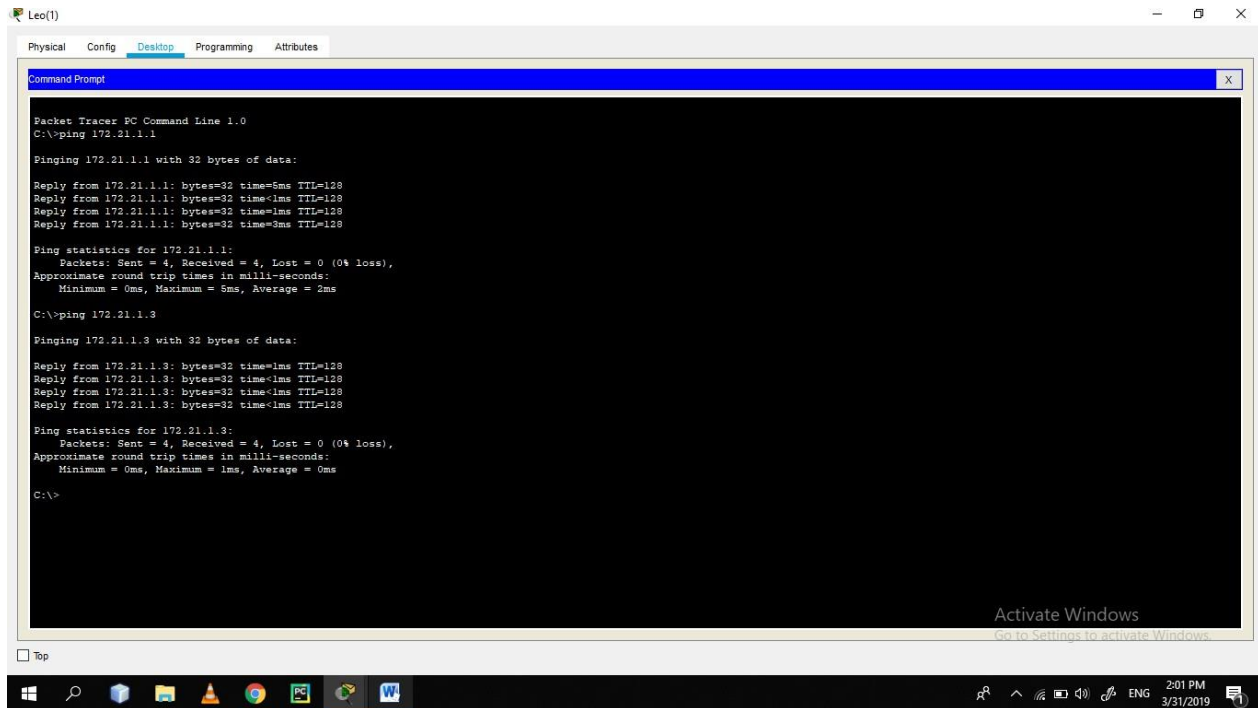
d. Pada kondisi default, Switch dan port mana saja yang:

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

e. Pada kondisi default, port mana saja yang :

- Berada pada keadaan forwarding :SW1(Fa 0/1; 0/3), SW2(Fa 0/1; 0/2; 0/3), SW3(Fa0/1; 0/2; 0/3)
- Berada pada keadaan blocking : tidak ada

## 5) Ping dari Pc Leo ke PC Virgo



The screenshot shows a Packet Tracer PC Command Line 1.0 window for PC Leo. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with Desktop selected. The Command Prompt shows the following output:

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=5ms TTL=128
Reply from 172.21.1.1: bytes=32 time<1ms TTL=128
Reply from 172.21.1.1: bytes=32 time<1ms TTL=128
Reply from 172.21.1.1: bytes=32 time=3ms TTL=128

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 2ms

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<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 = 1ms, Average = 0ms

C:\>
```

The taskbar at the bottom shows the Windows Start button, search icon, and several application icons. The system tray on the right shows the date and time as 2:01 PM on 3/31/2019, along with network and volume icons.

Pertama kita masuk ke desktop pada Pc Leo lalu pilih command prompt lalu ketikan 'ping 172.21.1.3', lalu tunggu prosesnya.