LAPORAN PRAKTIKUM JARINGAN KOMPUTER MODUL 6 "SPANNING TREE PROTOCOL"



Oleh:

NAMA : Daffa Putra Alwansyah

NIM : L200190031

KELAS : A

PRODI : INFORMATIKA

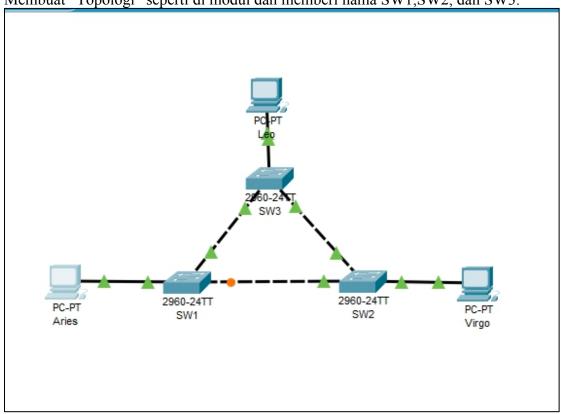
Fakultas Komunikasi dan Informatika Universitas Muhammadiyah Surakarta

C. Kegiatan Praktikum

1. Kegiatan 1. Topologi 1

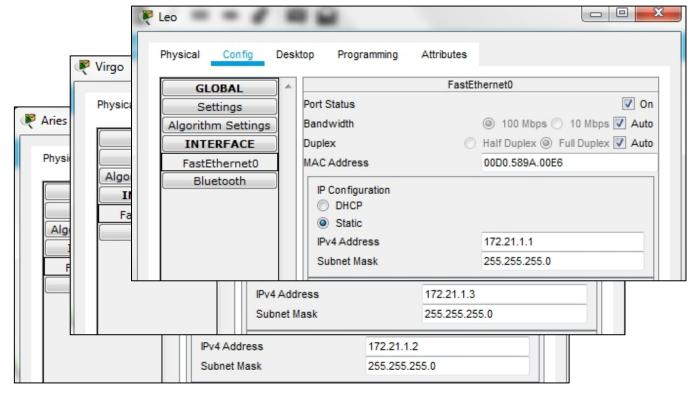
Tugas 1A

Membuat "Topologi" seperti di modul dan memberi nama SW1,SW2, dan SW3.



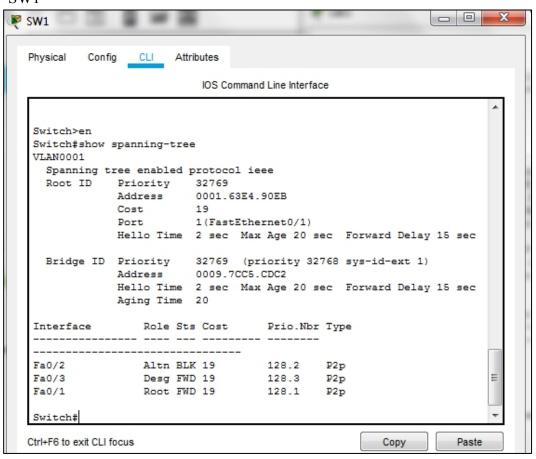
Tugas2A

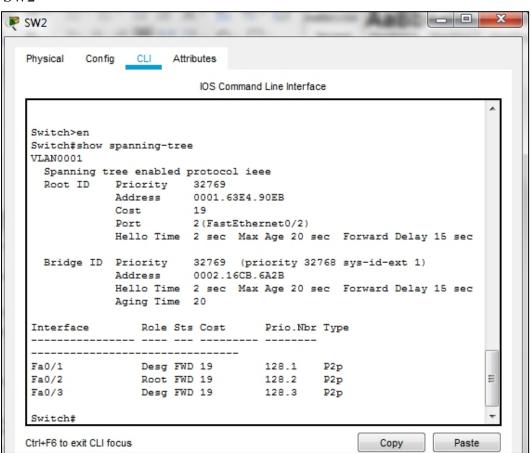
Konfigurasi alamat IP pada masing-masing PC, serta mengganti nama PC menjadi Leo, Aries dan Virgo.



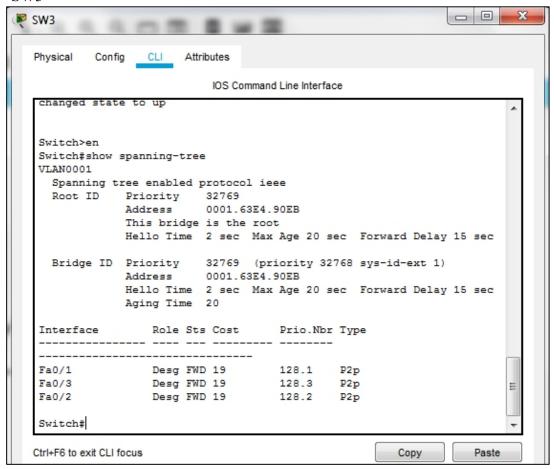
Tugas 4A

Melihat status STP pada masing-masing Switch, dengan masuk ke "*CLI*" > masuk ke mode privileged > ketik "*show spanning-tree*" pada SW1,SW2, dan SW3. -SW1





-SW3



Tugas 4B

Mengisi tabel pada tiap switch:

-SW1

No	Variabel	Nilai
1	Root ID	32769 : 0001.63E4.90EB
2	Priority	32769
3	MAC Adress	0009.7CC5.CDC2
4	Bridge ID	32769 : 0009.7CC5.CDC2
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

No	Variabel	Nilai
1	Root ID	32769 : 0001.63E4.90EB
2	Priority	32769
3	MAC Adress	0002.16CB.6A2B
4	Bridge ID	32769 : 0002.16CB.6A2B
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

-SW3

No	Variabel	Nilai
1	Root ID	32769 : 0001.63E4.90EB
2	Priority	32769
3	MAC Adress	0001.63E4.90EB
4	Bridge ID	32769 : 0001.63E4.90EB
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

Tugas 4C:

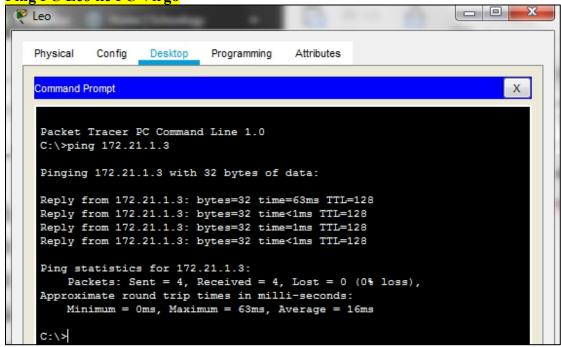
- Root bridge: SW3 (dapat dilihat "this bridge is the root").
- Designated bride: SW2 (dapat dilihat dari role "Desg,Root,Desg").
- Root port: SW1(Fa0/1) dan SW2(Fa0/2).
- Designated port : SW1(Fa0/3), SW2(Fa0/1;Fa0/3) dan SW3(Fa0/1;Fa0/2;Fa0/3).

Tugas 4D:

- Keadaan forwading : SW1(Fa0/1;Fa0/3), SW2(Fa0/1;Fa0/2;Fa0/3). dan SW3(Fa0/1;Fa0/2;Fa0/3) (dapat dilihat dari status "FWD").
- Keadaan blocking : SW1(Fa0/2) -> (dapat dilihat dari status "BLK").

Tugas 5A:

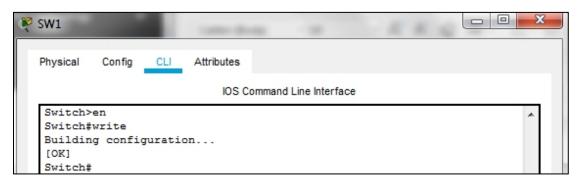
Ping PC Leo ke PC Virgo Leo



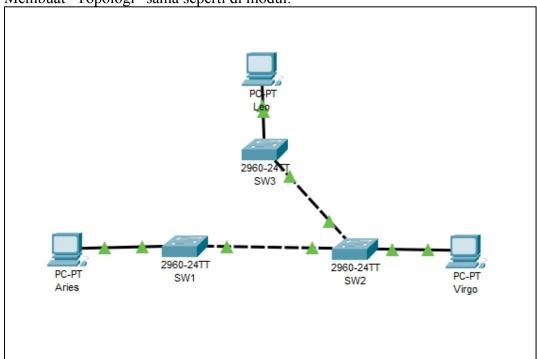
Masuk ke PC > Desktop > Command Prompt, lalu ketik "ping 172.21.1.3".

Tugas 6A

Lakukan perintah pada setiap Switch: Untuk menyimpan konfigurasi jaringan

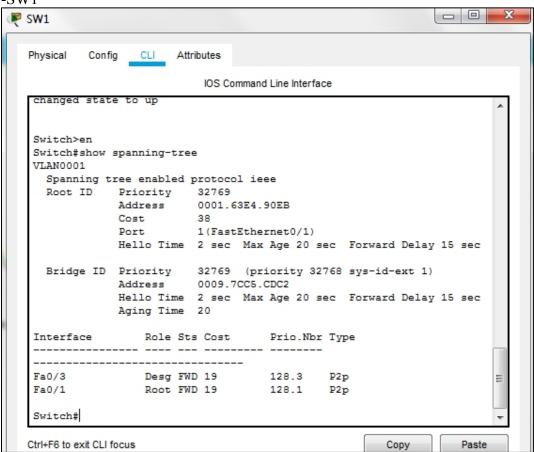


2. Kegiatan 2. Topologi 2 Membuat "Topologi" sama seperti di modul.

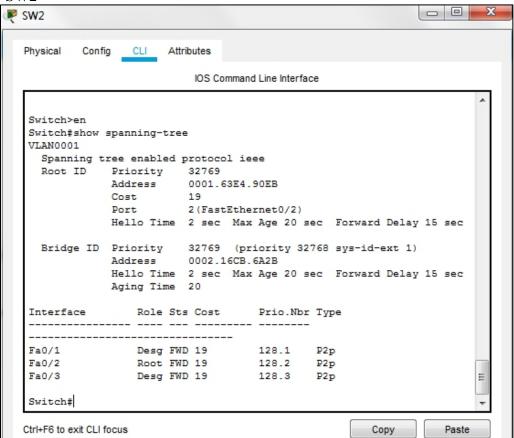


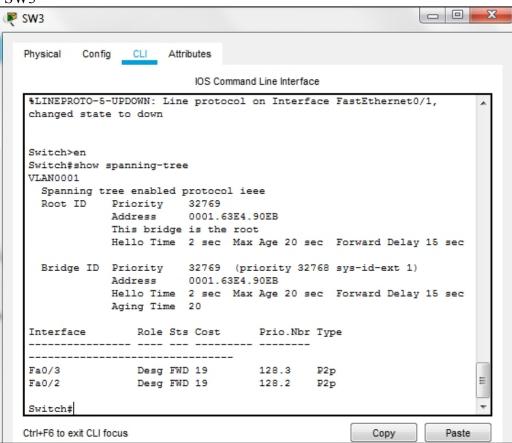
Tugas 9A

Melihat status STP pada masing-masing Switch, dengan masuk ke "CLI" > masuk ke mode privileged > ketik show spanning-tree pada SW1,SW2, dan SW3.



-SW2





Mengisi tabel pada masing-masing switch:

-SW1

No	Variabel	Nilai
1	Root ID	32769 : 0001.63E4.90EB
2	Priority	32769
3	MAC Adress	0009.7CC5.CDC2
4	Bridge ID	32769 : 0009.7CC5.CDC2
5	Cost(0/1;0/3)	19/19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

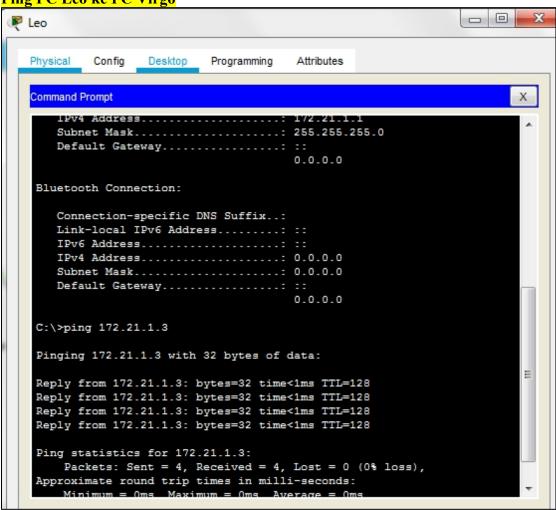
-SW2

No	Variabel	Nilai
1	Root ID	32769 : 0001.63E4.90EB
2	Priority	32769
3	MAC Adress	0002.16CB.6A2B
4	Bridge ID	32769 : 0002.16CB.6A2B
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

No	Variabel	Nilai
1	Root ID	32769 : 0001.63E4.90EB
2	Priority	32769
3	MAC Adress	0001.63E4.90EB
4	Bridge ID	32769 : 0001.63E4.90EB
5	Cost(0/2;0/3)	19/19
6	Hello Time	2 sec
7	Max Age	20 sec
8	Forward Delay	15 sec

- Root bridge: SW3 (dapat dilihat "this bridge is the root").
- Designated bride: SW2 (dapat dilihat dari role "Desg,Root.Desg").
- Root port: SW1(Fa0/1) dan SW2(Fa0/2).
- Designated port : SW1(Fa0/3), SW2(Fa0/1;Fa0/3) dan SW3(Fa0/2;Fa0/3).
- Keadaan forwading : SW1(Fa0/1;Fa0/3), SW2(Fa0/1;Fa0/2;Fa0/3). dan SW3(Fa0/2;Fa0/3) (dapat dilihat dari status "*FWD*").
- Keadaan blocking: None (Tidak ada).

<mark>Tugas :</mark> Ping PC Leo ke PC Virgo



Masuk ke PC > Desktop > Command Promp, lalu ketik "ping 172.21.3"

Tugas

Lakukan perintah pada setiap Switch:

