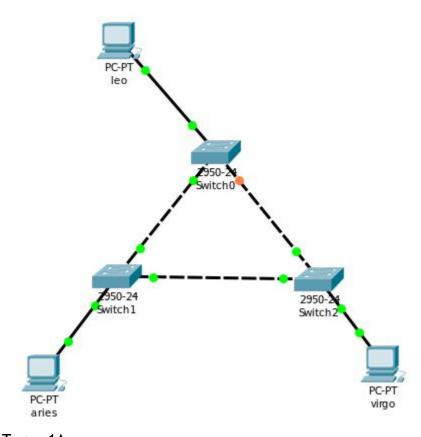
Laporan Praktikum Jaringan Komputer

NIM : L200180014

Nama : Andika Wirapala F. A.

Modul: 6

Kegiatan 1. Topologi 1

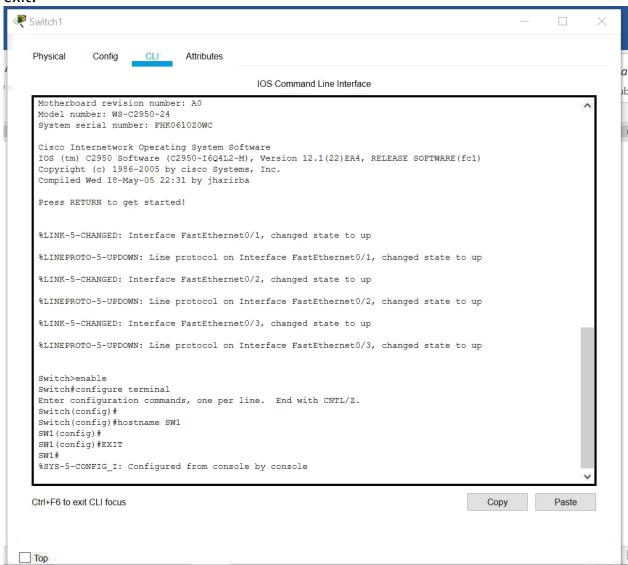


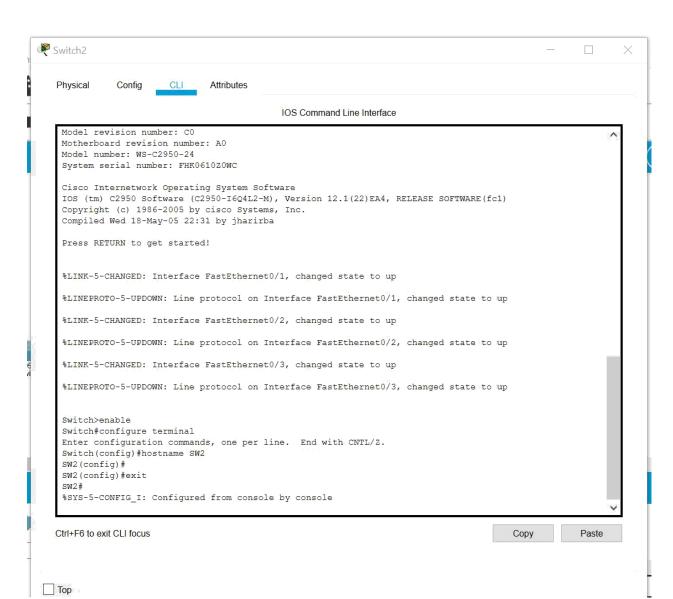
Tugas 1A

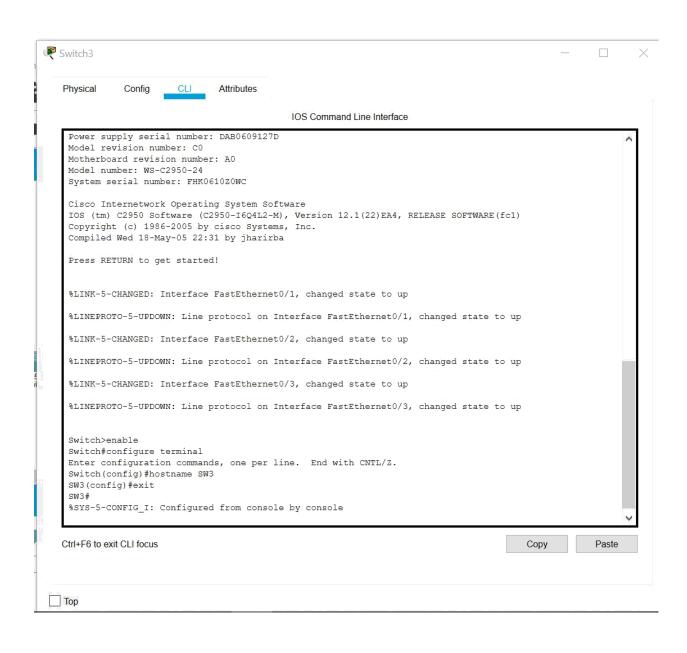
- a) Pilih pada bagian Network Device, switches, pilih tipe 2950-24, letakkan 3 switch, berikan nama SW1, SW2, SW3 pada masing-masing switch.
- b) Pilih pada bagian End Devic, PC, letakkan 3 komputer, berikan nama Aries, Leo dan Virgo pada masing-masing computer.
- c) Hubungkan dengan kabel.

Tugas 2A

Langkah-langkah pemberian nama masing-masing dengan SW1, SW2, dan SW3 dengan cara klik enable, ketik conf term, ketik hostname SW1/SW2/SW3 ketik exit.







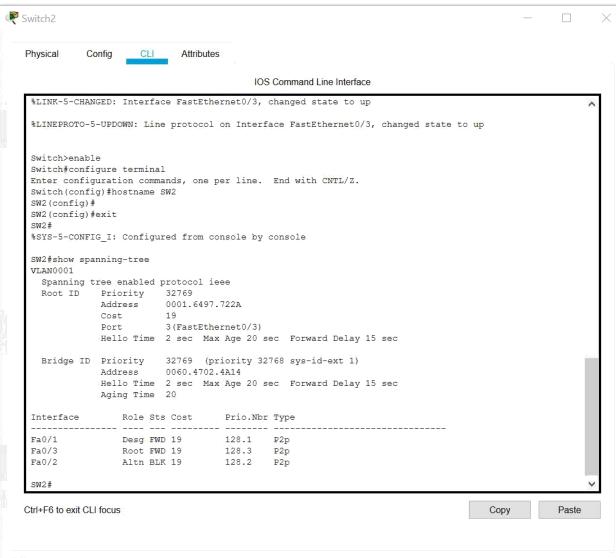


IOS Command Line Interface

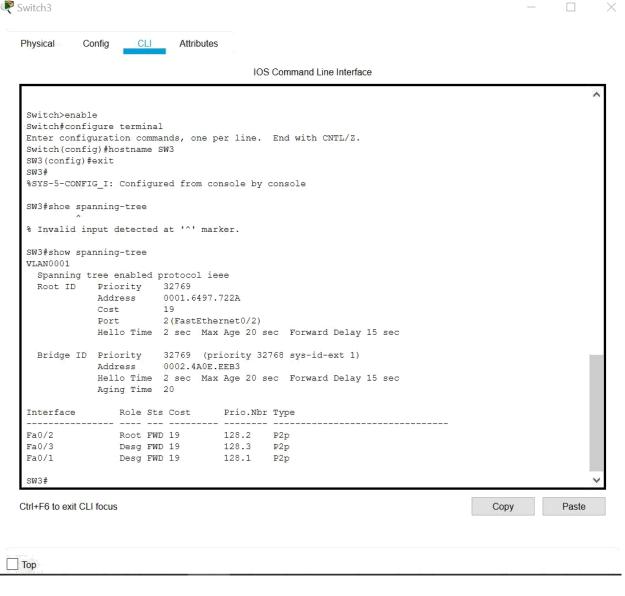
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
SW1#show spanning-tree
VLAN0001
 Spanning tree enabled protocol ieee
                        32769
0001.6497.722A
 Root ID
            Priority
            Address
            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 0001.6497.722A
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Aging Time 20
Interface
                Role Sts Cost
                                   Prio.Nbr Type
                                128.1
            Desg FWD 19
Desg FWD 19
Fa0/1
                                            P2p
Fa0/2
                                    128.2
                                             P2p
Fa0/3
                Desg FWD 19
                                    128.3
SW1#
```

Ctrl+F6 to exit CLI focus Copy Paste

Ton



Top



Tugas 4B Untuk tiap-tiap switch, isikan tabel berikut:

SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769 (priority 32768 sys-id-ext 1)
3	MAC Adrress	0001.6497.722A
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forwarrd Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769 (priority 32768 sys-id-ext 1)
3	MAC Adrress	0001.6497.722A
4	Bridge ID	32769
	Cost	
5	(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forwarrd Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769 (priority 32768 sys-id-ext 1)
3	MAC Adrress	0001.6497.722A
4	Bridge ID	32769
	Cost	
5	(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forwarrd Delay	15 sec

Tugas 4C

Pada kondisi default tersebut mana saja.

Menjadi root bridge : SW2

Menjadi designates

bridge : SW3

• Menjadi root port : SW1(0/2), SW3(0/3)

• Menjadi designated port : SW3(0/3)

Tugas 4D

Pada kondisi default tersebut, dan port mana saja

- Berada pada keadaan forwarding : SW1(0/1, 0/2), SW2(0/1, 0/1, 0/1), dan SW3(0/1, 0/2, 0/3)
- Berada pada keadaan blocking : SW1(fa 0/2)

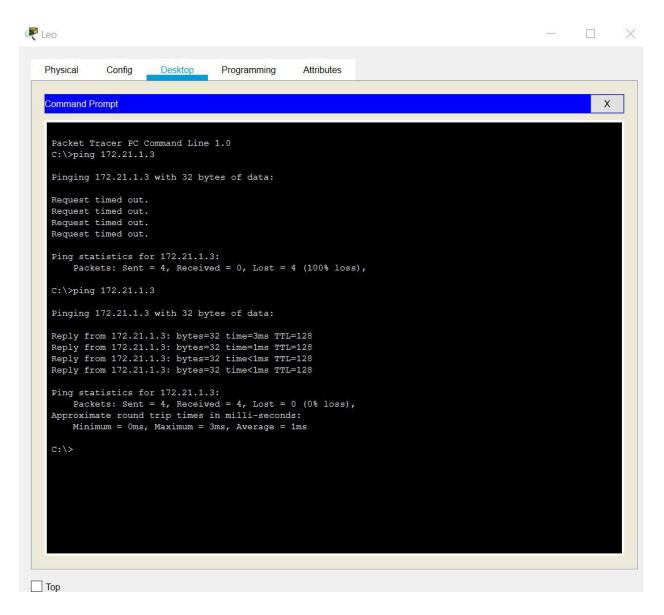
Tugas 5A

Langkah untuk melakukan perintah ping dari PC Leo ke PC Virgo

1) Klik pada PC Leo

- 2) Pilih tab desktop
- 3) Pilih command prompt

4) Ketik ping 172.21.1.3

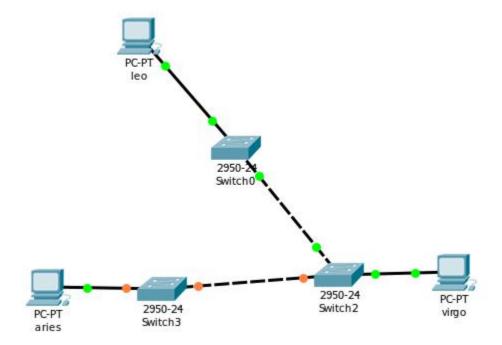


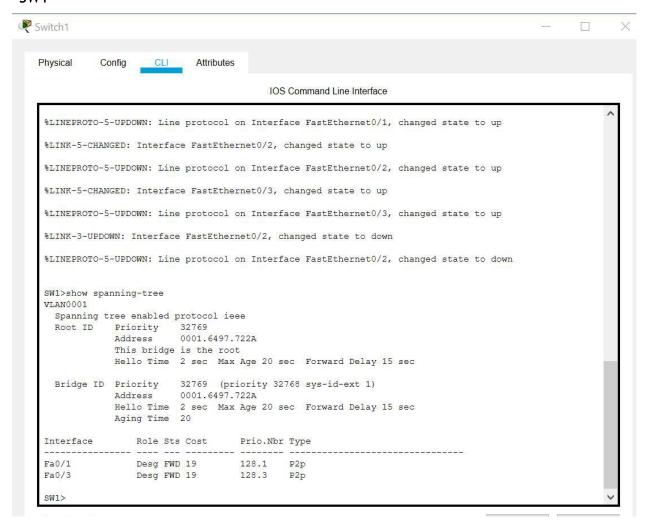
Tugas 6A

Langkah untuk menyimpan konfigurasi jaringan

- 1) Ketik CTRL + S
- 2) Beri nama lab2 yang akan bereksistensi sesuai aplikasi yang digunakan

Kegiatan 2. Topologi 2





No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769 (priority 32768 sys-id-ext 1)
3	MAC Adrress	0001.6497.722A
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forwarrd Delay	15 sec

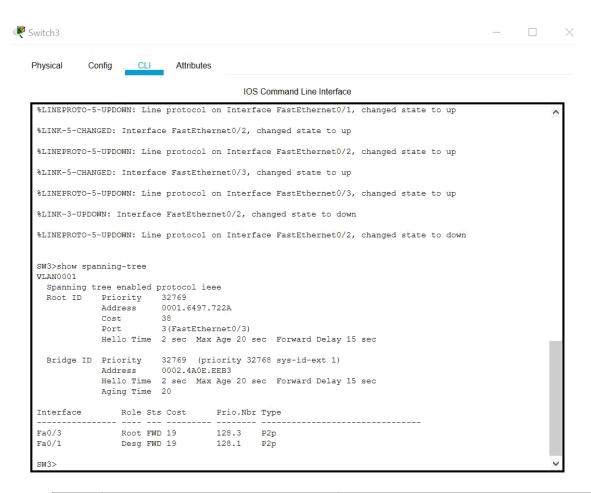


Physical Config CLI Attributes

IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up %LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up %LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up SW2>show spanning-tree VLAN0001 Spanning tree enabled protocol ieee Priority 32769 Root ID 0001.6497.722A Address 19 3 (FastEthernet0/3) Cost Port Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Bridge ID Priority 32769 (priority 32768 sys-id-ext 1) Address 0060.4702.4A14 Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Aging Time 20 Interface Role Sts Cost Prio.Nbr Type Root FWD 19 Desg FWD 19 Desg FWD 19 128.3 128.2 Fa0/3 P2p Fa0/2 P2p 128.1 Fa0/1 P2p SW2>

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769 (priority 32768 sys-id-ext 1)
3	MAC Adrress	0001.6497.722A
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forwarrd Delay	15 sec



No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769 (priority 32768 sys-id-ext 1)
3	MAC Adrress	0001.6497.722A
4	Bridge ID	32769
	Cost	
5	(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forwarrd Delay	15 sec

Pada kondisi default tersebut mana saja.

Menjadi root bridge : SW3

Menjadi designates

bridge : SW1

• Menjadi root port : SW1(0/), SW(0/3)

Menjadi designated port: SW1(0/1), SW2(0/1, 0/2), SW3(0/1)

Pada kondisi default tersebut, dan port mana saja

• Berada pada keadaan forwarding: SW1(0/1, 0/3), SW2(0/1, 0/3), dan

• SW3(0/1, 0/2, 0/3) Melakukan ping dari PC Leo ke PC Virgo

