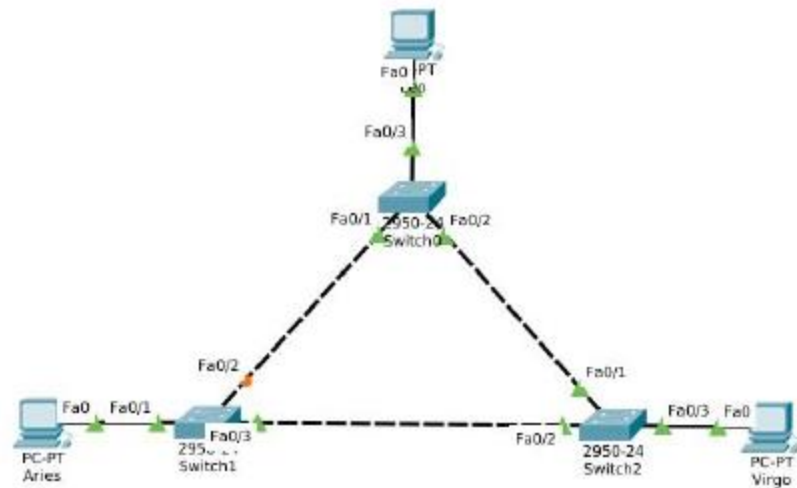


Nama : Kukuh Adhi Pratama  
NIM : L200174185  
Kelas : X  
Modul : BAB VI (Spanning Tree Protocol)

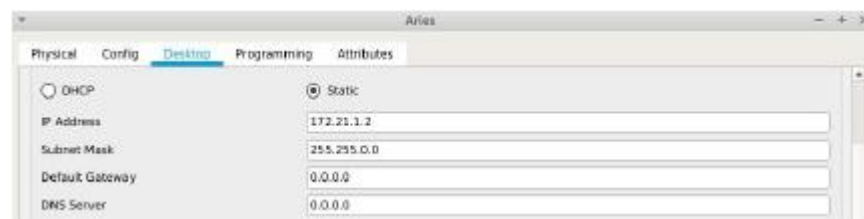
## 1. Kegiatan-1 (Topologi 1)

1. Menggunakan Packet Tracer buat topologi berikut ini dengan menggunakan switch Catalyst 2950.

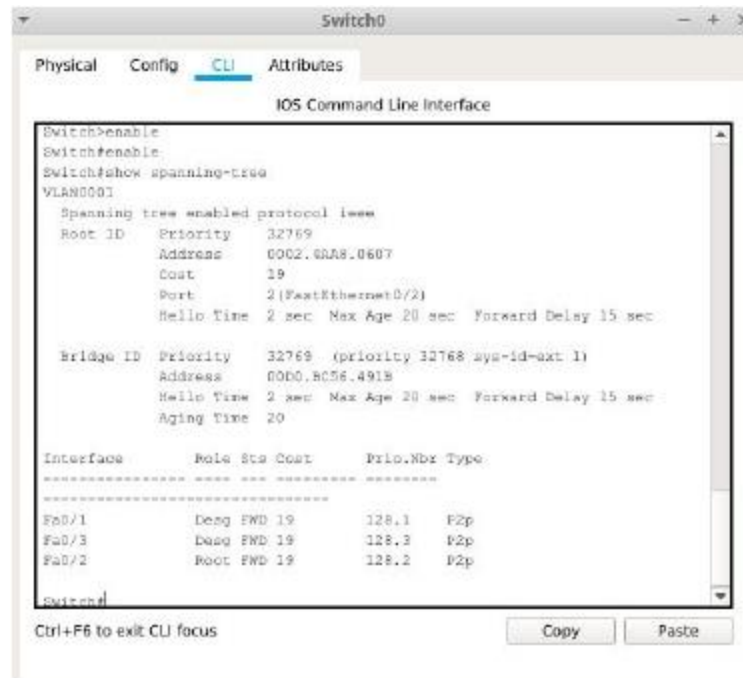


2. Konfigurasi masing-masing PC dengan IP :

- Leo = 172.21.1.1/24
- Aries = 172.21.1.2/24
- Virgo = 172.21.1.3/24



3. Pada mode user atau mode privileged, lihat status STP pada masing-masing switch. Langkah pengoperasian
  - ✓ Tekan Enter
  - ✓ Masuk mode privileged (Optional)
  - ✓ Ketik show spanning-tree



Switch0

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch>enable
Switch#enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0002.8RA8.0607
             Cost        19
             Port        2(FastEthernet0/2)
             Hello Time  2 sec Max Age 20 sec Forward Delay 15 sec

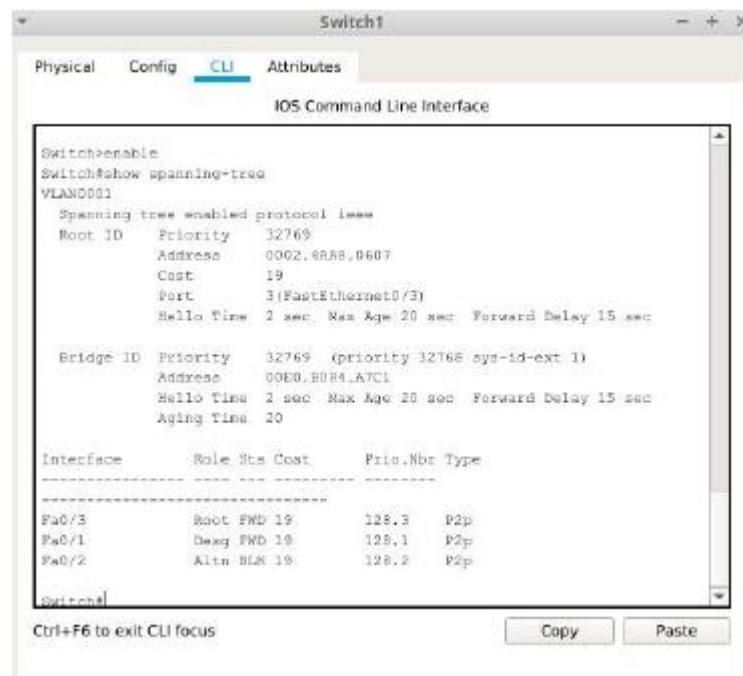
  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     00D0.8C56.491B
             Hello Time  2 sec Max Age 20 sec Forward Delay 15 sec
             Aging Time  20

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                  Root FWD 19        128.2   P2p
```

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste



Switch1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch>enable
Switch#enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0002.8RA8.0607
             Cost        19
             Port        3(FastEthernet0/3)
             Hello Time  2 sec Max Age 20 sec Forward Delay 15 sec

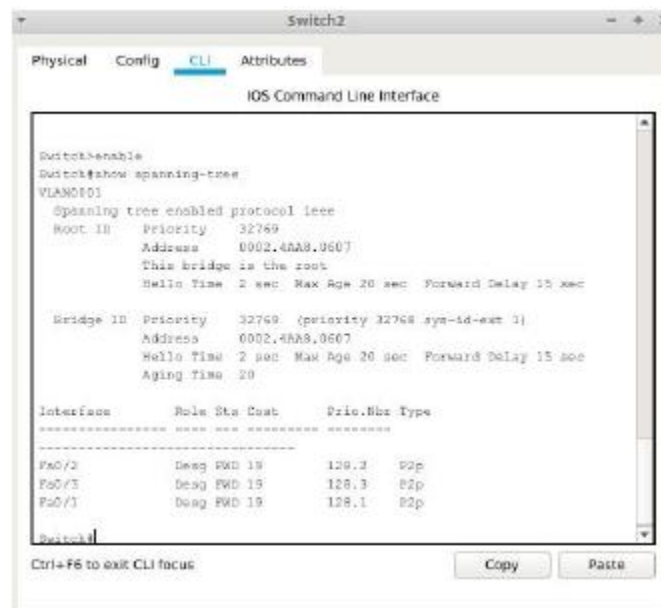
  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     00E0.B084.A7C1
             Hello Time  2 sec Max Age 20 sec Forward Delay 15 sec
             Aging Time  20

Interface              Role Sts Cost      Prio.Nbr Type
-----
Fa0/3                  Root FWD 19        128.3   P2p
Fa0/1                  Desg FWD 19        128.1   P2p
Fa0/2                  Altn BLK 19        128.2   P2p
```

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste



4. Untuk tiap switch, isikan table berikut :

#### SW 0

No	Variabel	Nilai	Role	Stat
1	Root ID	32769 : 0002.4AAB.0607	Desg	FWD
2	Priority	32769	Desg	FWD
3	MAC Address	0002.4AAB.0607	Root	FWD
4	Bridge ID	32769 : 00D0.BC56.491B		
5	Cost (0/1;0/2;0/3)	Fa0/1 --> 19, Fa0/2 --> 19, Fa03 --> 19		
6	Hello Time	2 Sec		
7	MaxAge	20 Sec		
8	Forward Delay	15 Sec		

#### SW 1

No	Variabel	Nilai	Role	Stat
1	Root ID	32769 : 0002.4AAB.0607	Root	FWD
2	Priority	32769	Desg	FWD
3	MAC Address	0002.4AAB.0607	Altn	BLK
4	Bridge ID	32769 : 00E0.B084.A7C1		
5	Cost (0/1;0/2;0/3)	Fa0/1 --> 19, Fa0/2 --> 19, Fa03 --> 19		
6	Hello Time	2 Sec		
7	MaxAge	20 Sec		
8	Forward Delay	15 Sec		

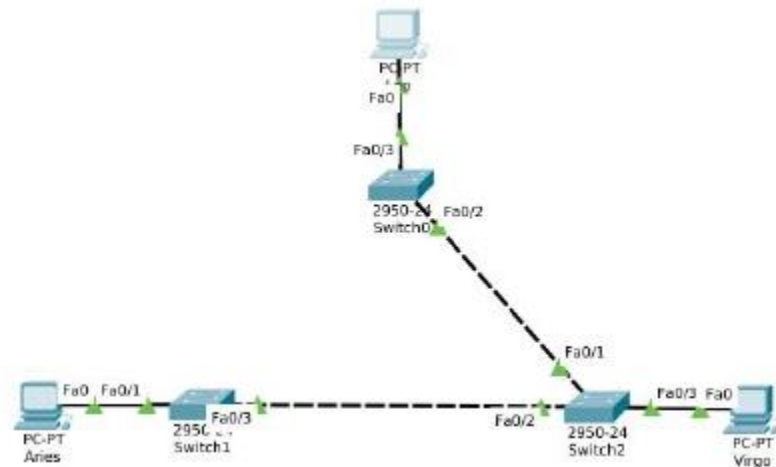
#### SW 2

No	Variabel	Nilai	Role	Stat
1	Root ID	32769 : 0002.4AAB.0607	Desg	FWD
2	Priority	32769	Desg	FWD
3	MAC Address	0002.4AAB.0607	Desg	FWD
4	Bridge ID	32769 : 0002.4AAB.0607		
5	Cost (0/1;0/2;0/3)	Fa0/1 --> 19, Fa0/2 --> 19, Fa03 --> 19		
6	Hello Time	2 Sec		
7	MaxAge	20 Sec		
8	Forward Delay	15 Sec		

- Root Bridge : SW 2
- Designated bride : SW 0
- Root Port : SW 1 Fa0/3, SW 2 Fa0/1
- Designated Port : SW 0 Fa0/1 Fa0/2, SW 1 Fa0/2, SW 2 Fa0/1 Fa0/2 Fa0/3
  
- Port yang berada pada keadaan forwarding :  
SW1(Fa 0/1;0/2;0/3) , SW2(Fa 0/1;0/2;0/3), dan SW3(Fa 0/1;0/3)
- Port yang berada pada keadaan blocking :  
SW3 (Fa 0/2)

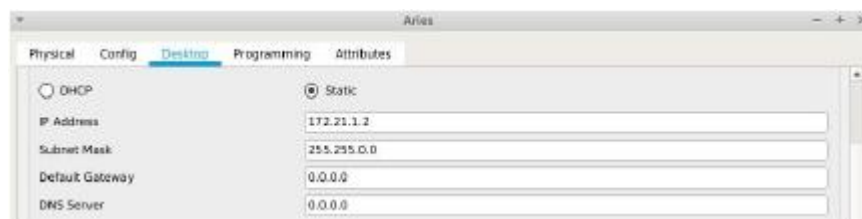
## 2. Kegiatan-2 (Topologi 2)

1. Menggunakan Packet Tracer buat topologi berikut ini dengan menggunakan switch Catalyst 2950.

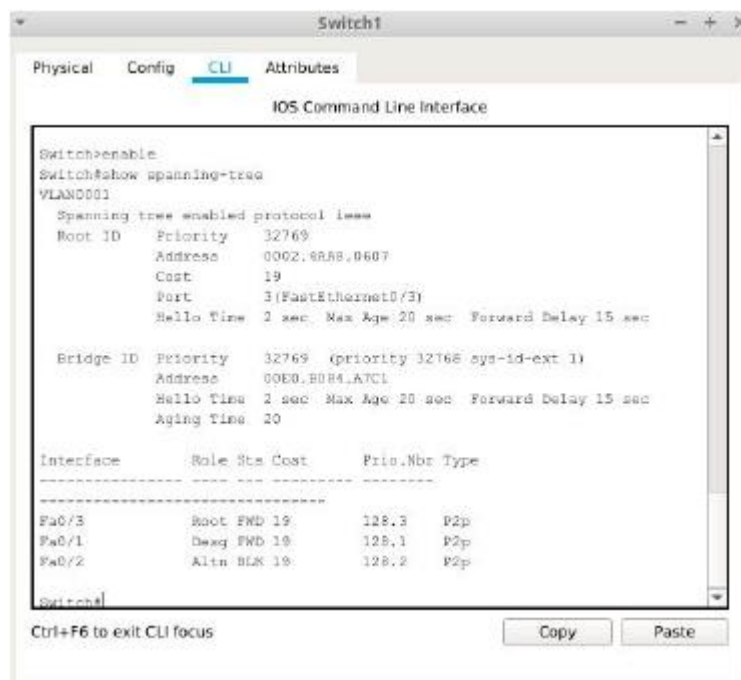
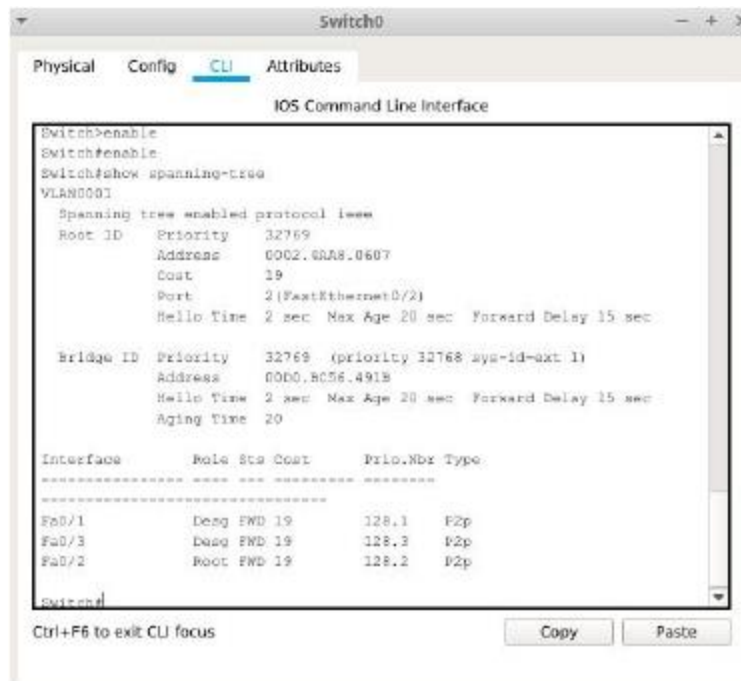


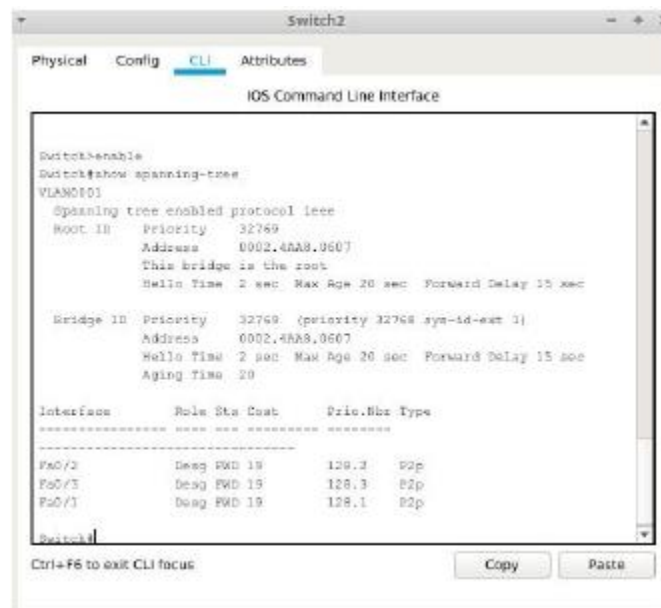
2. Konfigurasi masing-masing PC dengan IP :

- Leo = 172.21.1.1/24
- Aries = 172.21.1.2/24
- Virgo = 172.21.1.3/24



4. Pada mode user atau mode privileged, lihat status STP pada masing-masing switch. Langkah pengoperasian
  - ✓ Tekan Enter
  - ✓ Masuk mode privileged (Optional)
  - ✓ Ketik show spanning-tree





5. Untuk tiap switch, isikan table berikut :

#### SW 0

No	Variabel	Nilai	Role	Stat
1	Root ID	32769 : 0002.4AAB.0607	Desg	FWD
2	Priority	32769	Desg	FWD
3	MAC Address	0002.4AAB.0607	Root	FWD
4	Bridge ID	32769 : 00D0.BC56.491B		
5	Cost (0/1;0/2;0/3)	Fa0/1 --> 19, Fa0/2 --> 19, Fa03 --> 19		
6	Hello Time	2 Sec		
7	MaxAge	20 Sec		
8	Forward Delay	15 Sec		

#### SW 1

No	Variabel	Nilai	Role	Stat
1	Root ID	32769 : 0002.4AAB.0607	Root	FWD
2	Priority	32769	Desg	FWD
3	MAC Address	0002.4AAB.0607	Altn	BLK
4	Bridge ID	32769 : 00E0.B084.A7C1		
5	Cost (0/1;0/2;0/3)	Fa0/1 --> 19, Fa0/2 --> 19, Fa03 --> 19		
6	Hello Time	2 Sec		
7	MaxAge	20 Sec		
8	Forward Delay	15 Sec		

#### SW 2

No	Variabel	Nilai	Role	Stat
1	Root ID	32769 : 0002.4AAB.0607	Desg	FWD
2	Priority	32769	Desg	FWD
3	MAC Address	0002.4AAB.0607	Desg	FWD
4	Bridge ID	32769 : 0002.4AAB.0607		
5	Cost (0/1;0/2;0/3)	Fa0/1 --> 19, Fa0/2 --> 19, Fa03 --> 19		
6	Hello Time	2 Sec		
7	MaxAge	20 Sec		
8	Forward Delay	15 Sec		

- Root Bridge : SW 2
- Designated bride : SW 0
- Root Port : SW 1 Fa0/3, SW 2 Fa0/1
- Designated Port : SW 0 Fa0/1 Fa0/2, SW 1 Fa0/2, SW 2 Fa0/1 Fa0/2 Fa0/3
  
- Port yang berada pada keadaan forwarding :  
SW1(Fa 0/1;0/2;0/3) , SW2(Fa 0/1;0/2;0/3), dan SW3(Fa 0/1;0/3)
- Port yang berada pada keadaan blocking :  
SW3 (Fa 0/2)