Nama : Farid Aziz Priyo F
Nim : L200180117
Kelas : E

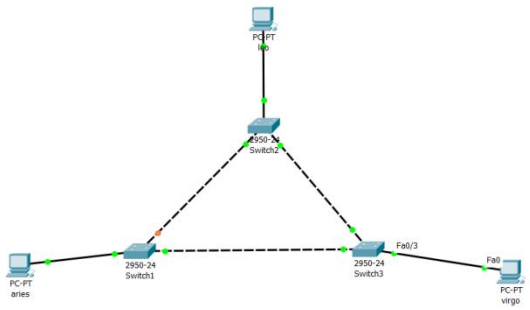
Praktikum

Jaringan Komputer

Kegiatan 1.

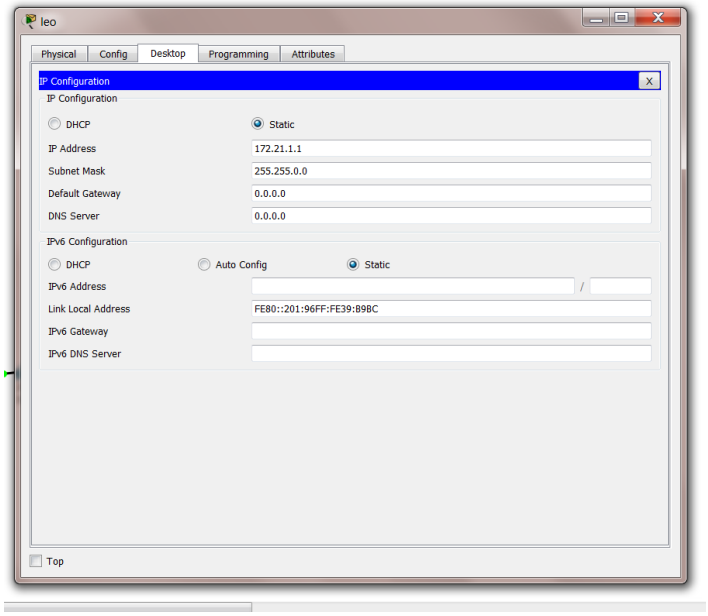
Topologi 1

Gambar rangkaian topologi

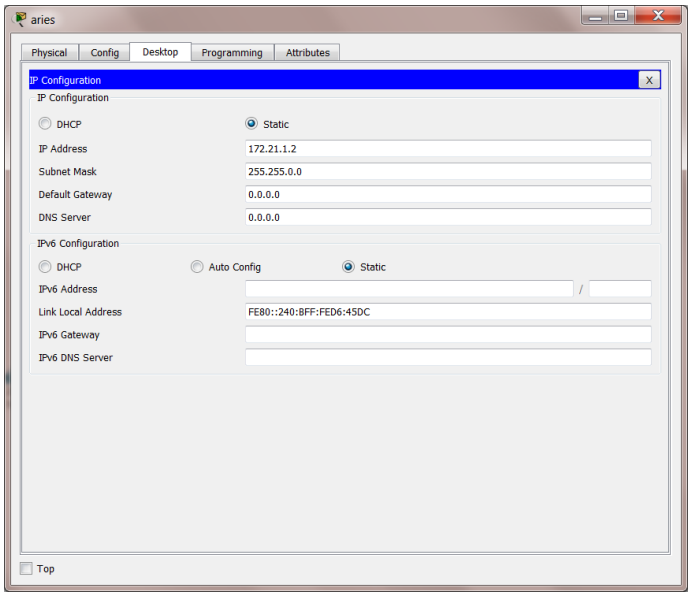


Konfirgurasi PC

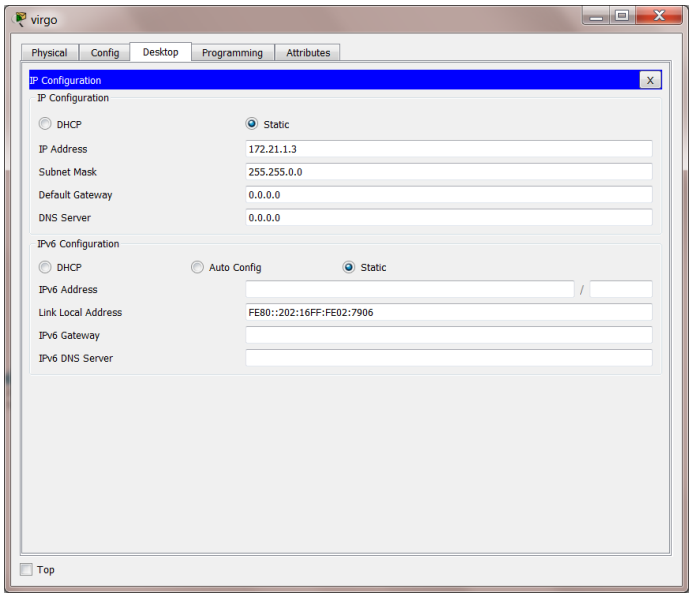
> Leo


leo
Physical
Config
Desktop
Programming
Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address
172.21.1.1
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::201:96FF:FE39:89BC
IPv6 Gateway
IPv6 DNS Server
Top

> Aries

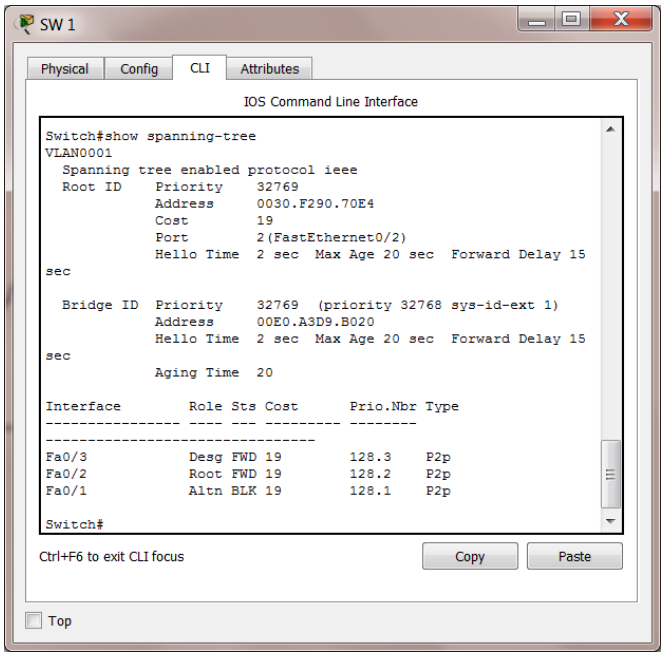

aries
Physical
Config
Desktop
Programming
Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address
172.21.1.2
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::240:BFF:FED6:45DC
IPv6 Gateway
IPv6 DNS Server
Top

> Virgo

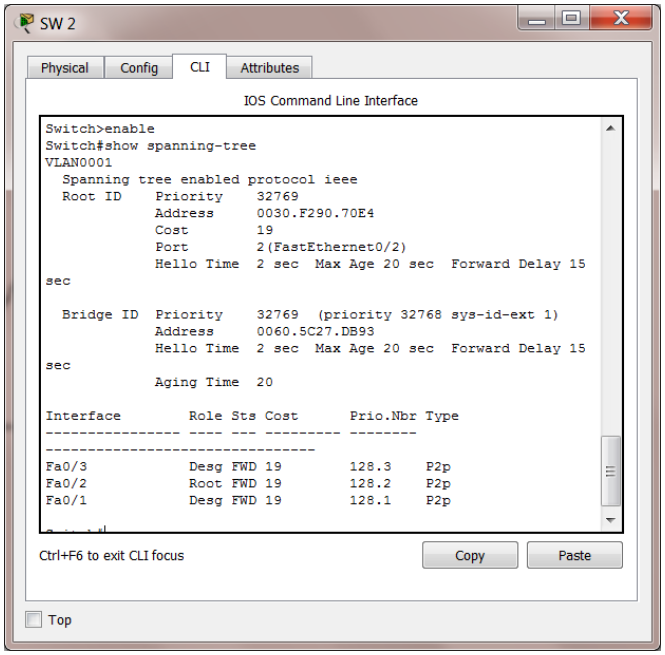


Melihat status STP masing – masing switch

> SW 1


SW 1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 0030.F290.70E4
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 00E0.A3D9.B020
Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
Aging Time 20
Interface Role Sts Cost Prio.Nbr Type
Fa0/3 Desg FWD 19 128.3 P2p
Fa0/2 Root FWD 19 128.2 P2p
Fa0/1 Altn BLK 19 128.1 P2p
Switch#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

> SW 2


SW 2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 0030.F290.70E4
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 0060.5C27.DB93
Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
Aging Time 20
Interface Role Sts Cost Prio.Nbr Type
Fa0/3 Desg FWD 19 128.3 P2p
Fa0/2 Root FWD 19 128.2 P2p
Fa0/1 Desg FWD 19 128.1 P2p
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

> SW 3

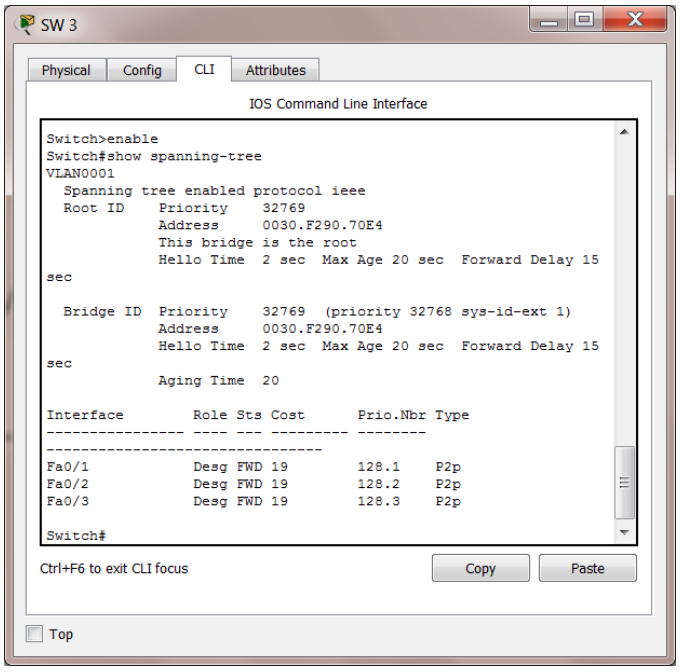


Table setiap switch

> SW 1

No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	00E0.A3D9.B020
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 2

No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0060.5C27.DB93
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 3

No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0030.F290.70E4
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

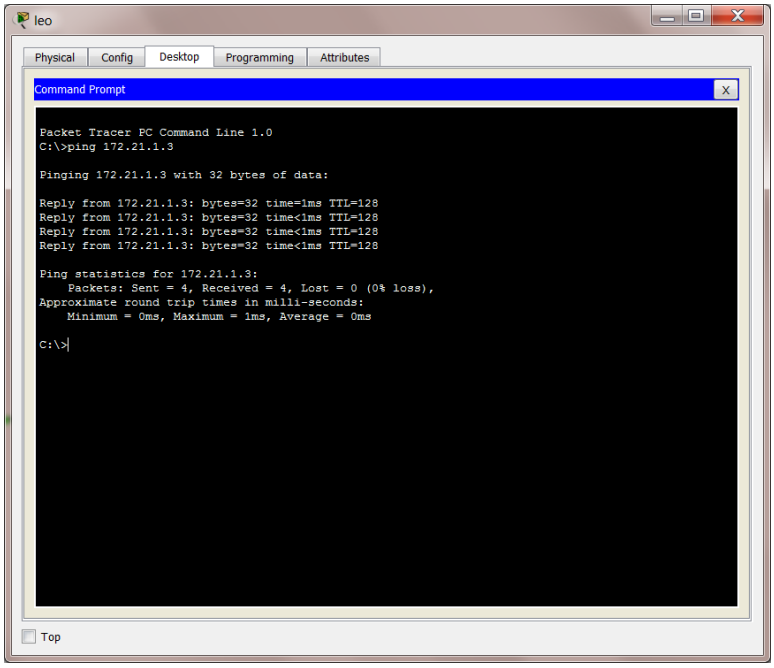
Menentukan

- Root bridge : SW 3
- Designated bridge : SW 1 dan SW 2
- Root port : SW1(Fa0/3), SW2(Fa0/2)
- Designated port : SW1(Fa0/1), SW2(Fa0/1 dan Fa0/3), SW3(Fa0/1, Fa0/2, dan Fa0/3)

Menentukan

- Keadaan fordwarding : SW1(Fa0/1 dan Fa0/3), SW2(Fa0/1 Fa0/2 Fa0/3), SW3(Fa0/1 Fa0/2 Fa0/3)
- Keadaan blocking : SW1 (Fa0/2)

Ping leo ke virgo

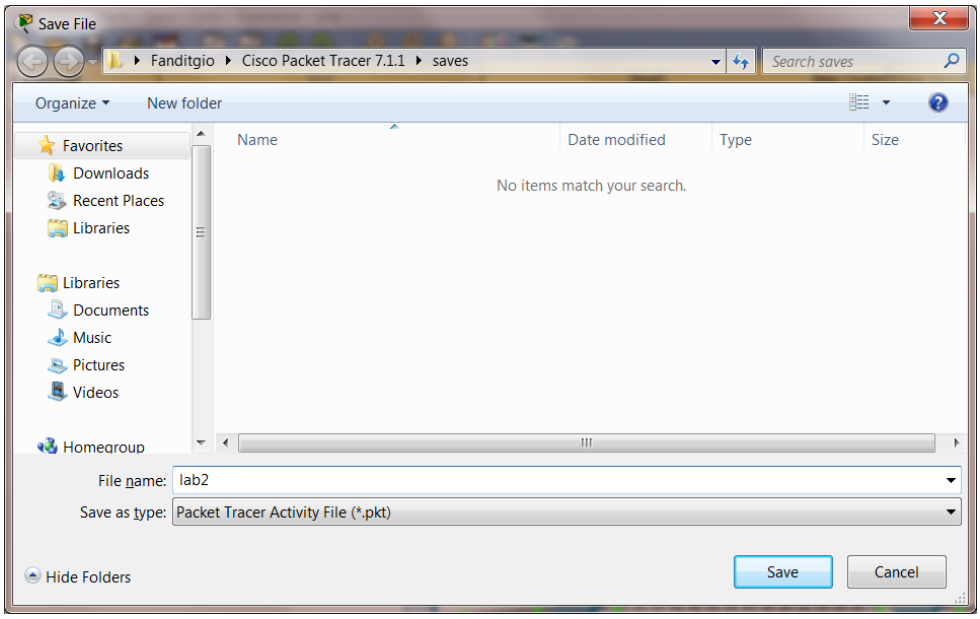


Langkah melakukan ping

- Klik PC leo
- Pilih tab desktop
- Pilih command prompt
- Ketikkan ping 172.21.1.3

Langkah menyimpan konfirgurasi jaringan

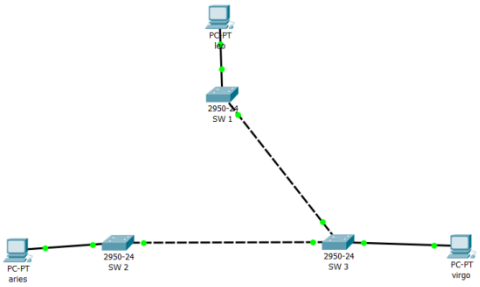
> Klik file
> Pilih Save As
> Beri nama lab2, ekstensi akan menyesuaikan dengan aplikasi yang kita gunakan



Kegiatan 2

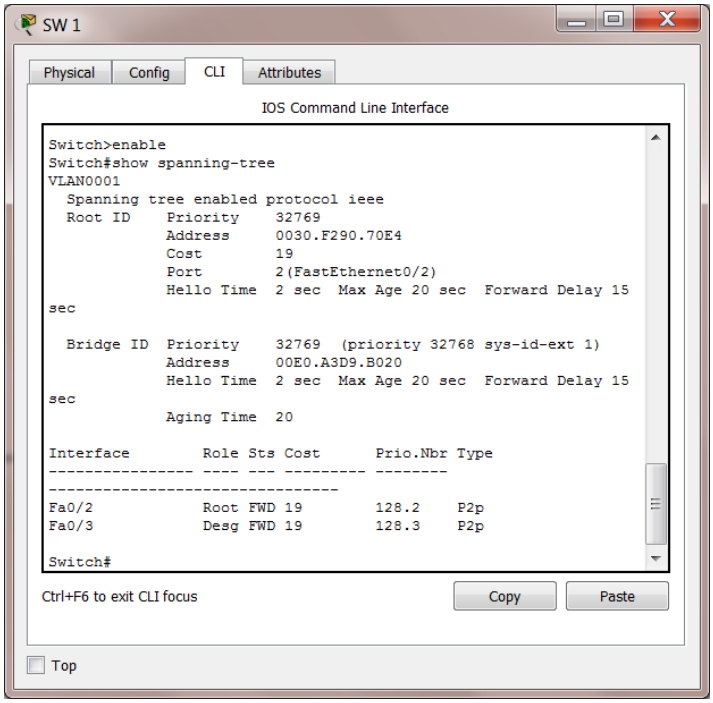
Topologi 2

Rangkaian topologi 2



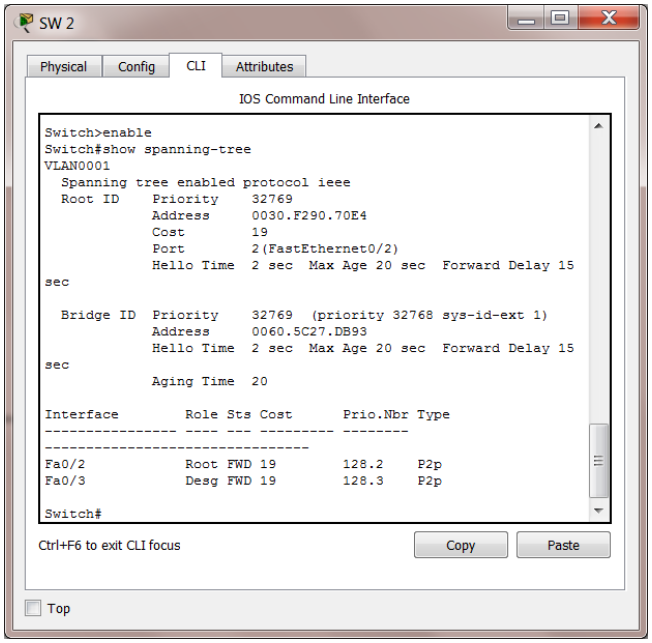
Status STP masing – masing switch

> SW 1



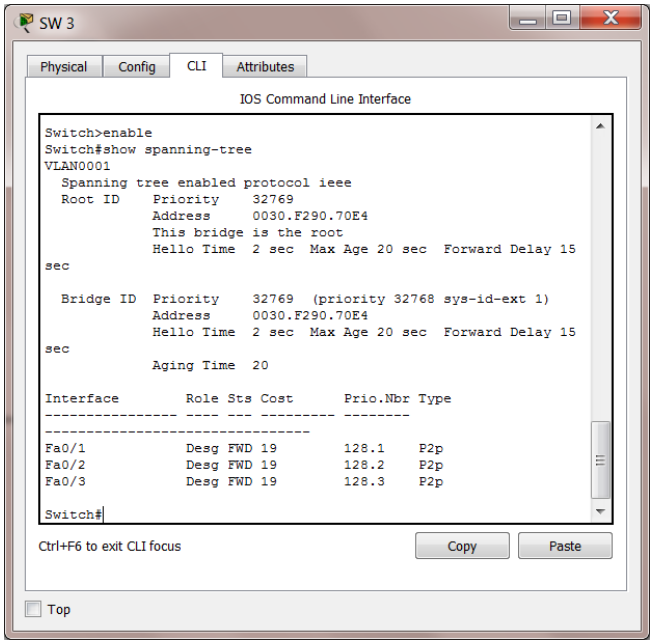
No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	00E0.A3D9.B020
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 2



No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0060.5C27.DB93
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

> SW 3

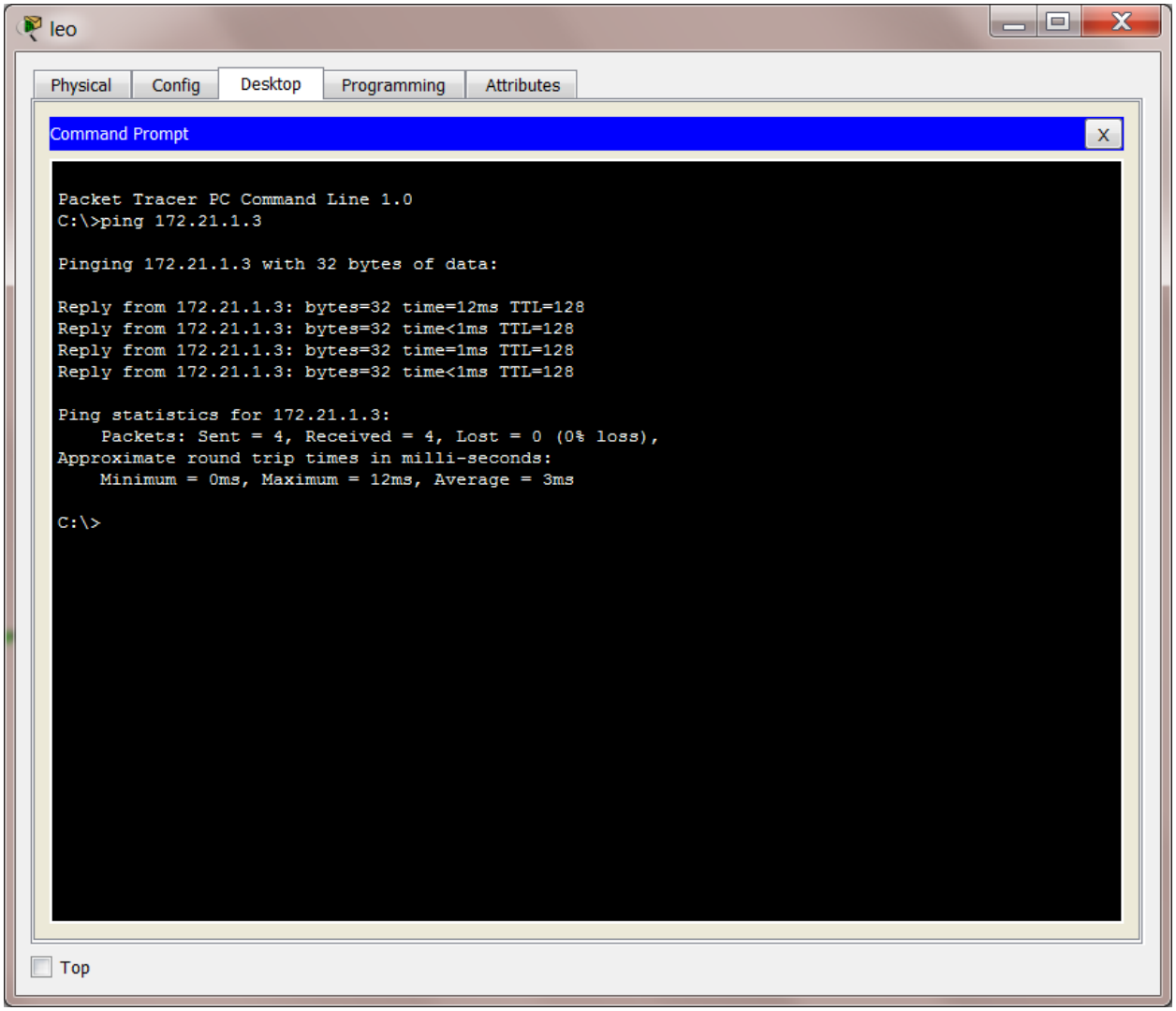


No	Variable	Value
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0030.F290.70E4
4.	Bridge ID	32769
5.	Cost	19
6.	Hello time	2 sec
7.	Max Age	20 sec
8.	Froward Delay	15 sec

Menentukan

- Root bridge : SW 3
- Designated bridge : SW 1 dan SW 2
- Root port : SW1(Fa0/2), SW2(Fa0/2)
- Designated port : SW1(Fa0/3), SW2(Fa0/3), SW3(Fa0/1, Fa0/2, Fa0/3)

Menentukan

- Keadaan fordwarding : SW1(Fa0/2 dan Fa0/3), SW2(Fa0/1 Fa0/2 Fa0/3), SW3(Fa0/1 Fa0/2 Fa0/3)
- Keadaan blocking : Tidak ada

Ping PC Leo ke Virgo