

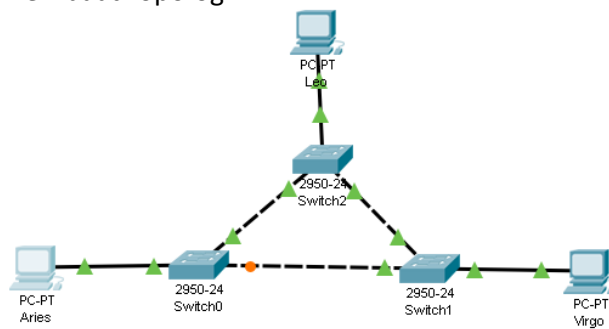
Nama : Fajar Nur Hidayat

NIM : L200170003

Kelas : A

Kegiatan 1

1. Membuat Topologi



2. Konfigurasi masing2 PC

Leo

Physical Config **Desktop** Programming Attributes

☐ 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::201:43FF:FE8B:A42A

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MDS

Username:

Password:

☐ Top

Aries

Physical Config **Desktop** Programming Attributes

☐ 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::20C:CFFF:FE50:36C1

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MDS

Username:

Password:

☐ Top

Virgo

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address: 172.21.1.3

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::20B:BEFF:FEC3:BE9B

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

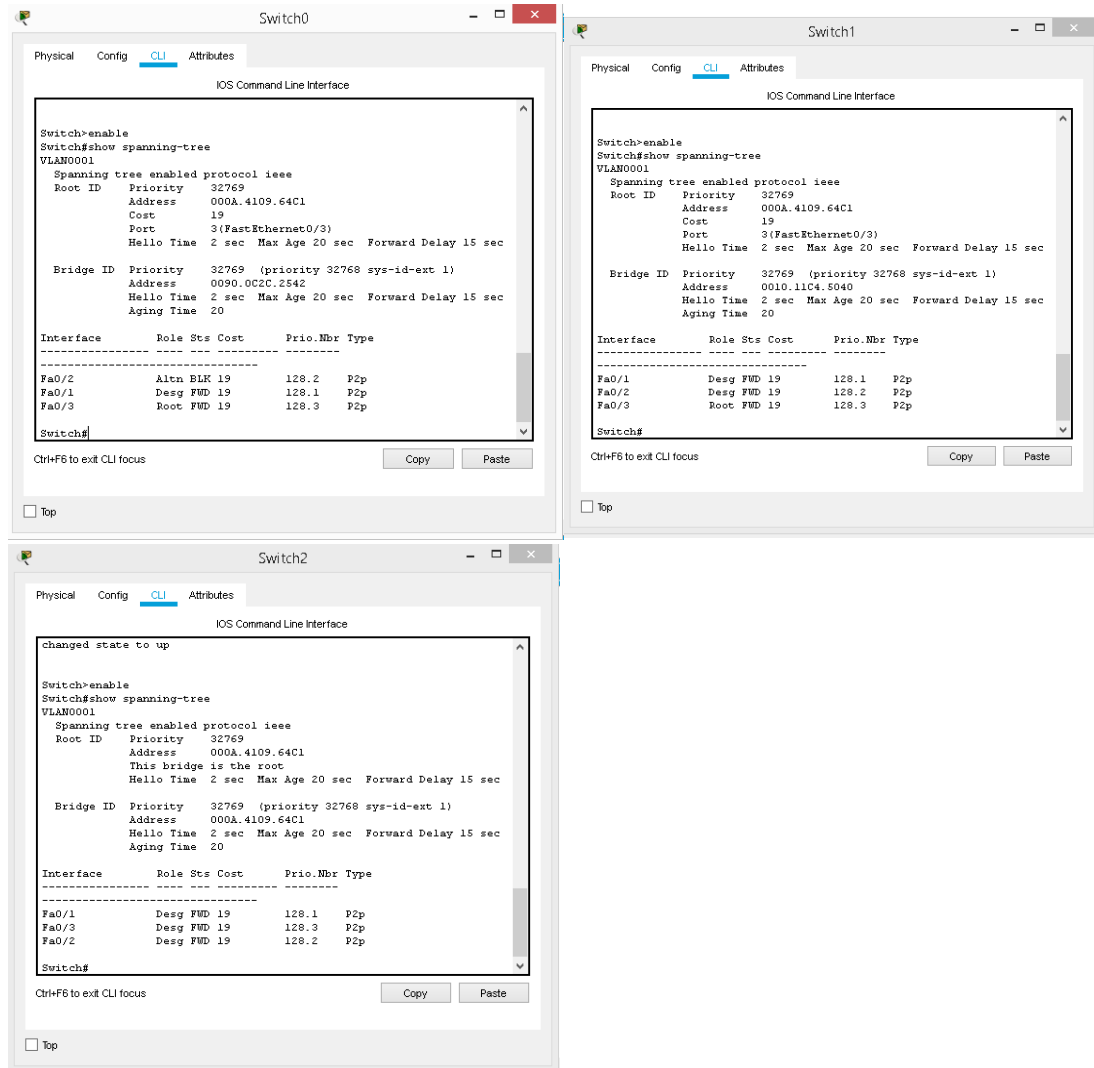
Authentication: MDS

Username:

Password:

☐ Top

3. Capture tampilan status switch



SW 1

No	Variabel	Nilai
1	Root ID	32769, 000A.4109.64C1
2	Priority	32769
3	Mac Address	000A.4109.64C1
4	Bridge ID	31769, 0090.0C2C.2542
5	Cost(0/1;0/2;0/3)	19,19,19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
	Role	Sts
Fa 0/1	Desg	FWD
Fa 0/2	Altn	BLK
Fa 0/3	Root	FWD

SW 2

No	Variabel	Nilai
1	Root ID	32769, 000A.4109.64C1
2	Priority	32769
3	Mac Address	000A.4109.64C1
4	Bridge ID	31769, 0010.11C4.5040
5	Cost(0/1;0/2;0/3)	19,19,19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
	Role	Sts
Fa 0/1	Desg	FWD
Fa 0/2	Desg	FWD
Fa 0/3	Root	FWD

SW 3

No	Variabel	Nilai
1	Root ID	32769, 000A.4109.64C1
2	Priority	32769
3	Mac Address	000A.4109.64C1
4	Bridge ID	31769, 000A.4109.64C1
5	Cost(0/1;0/2;0/3)	19,19,19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
	Role	Sts
Fa 0/1	Desg	FWD
Fa 0/2	Desg	FWD
Fa 0/3	Desg	FWD

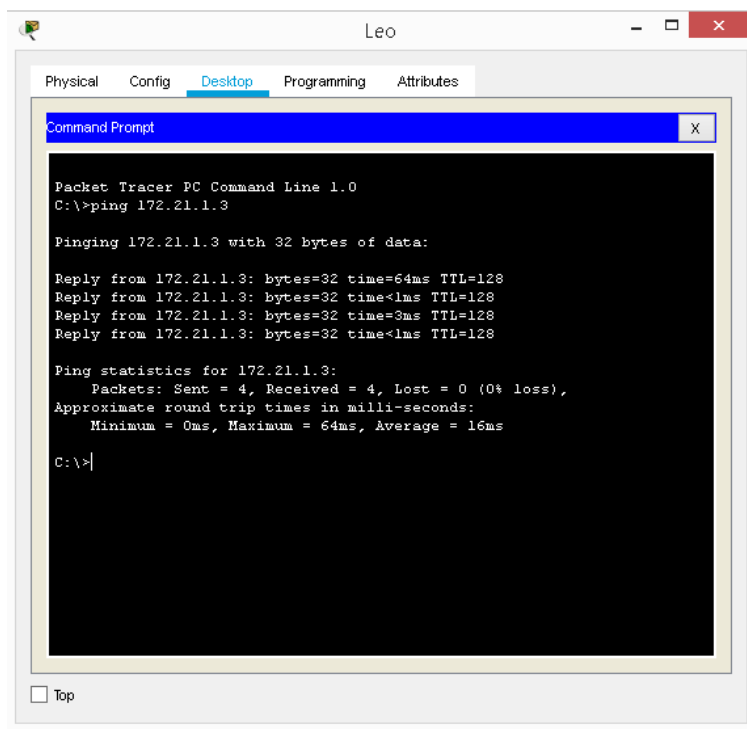
Tugas 4c pada kondisi default tersebut, Switch dan port mana saja yang

- Menjadi root bridge : SW 3 , SW 2
- Menjadi Designated bridge : SW 3 , SW 2
- Menjadi root port : SW 2 , SW 1
- Menjadi Designated port : SW 3, SW 2

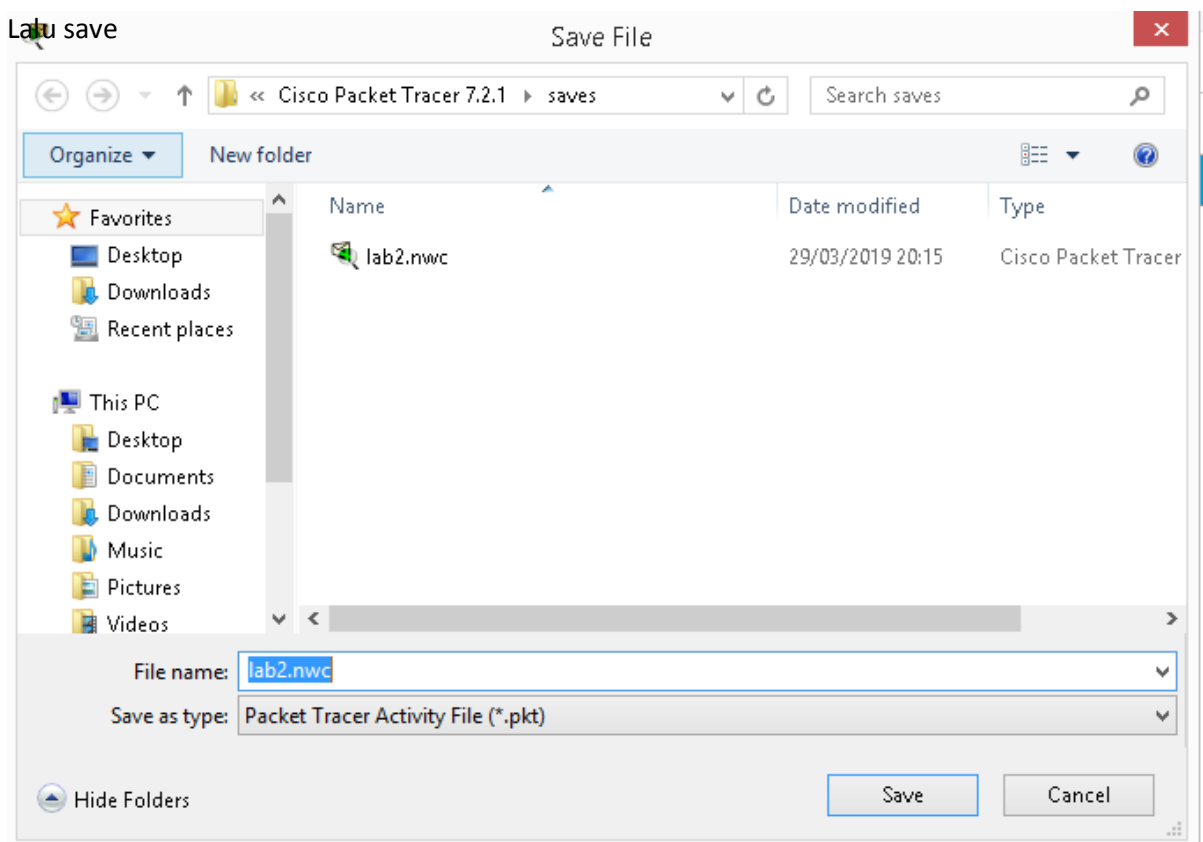
Tugas 4d pada kondisi default tersebut, port mana saja yang

- Berada pada keadaan Forwarding : SW 3, SW 2
- Berada pada keadaan Blocking : SW 1

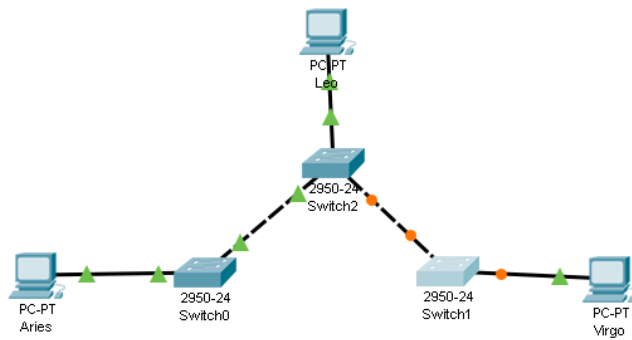
ping pc Leo ke Virgo



Labu save



Kegiatan 2



Konfigurasi IP

Leo

Physical Config **Desktop** Programming Attributes

☐ 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::201:43FF:FE8B:A42A

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

Aries

Physical Config **Desktop** Programming Attributes

☐ 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::20C:0FFF:FE50:36C1

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

Virgo

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address: 172.21.1.3

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::20B:BEFF:FE33:BE9B

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

Keadaan Switch

Switch0

Physical

Config

CLI

Attributes

IOS Command Line Interface

changed state to down

Switch>enable

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 000A.4109.64C1

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 0090.0C2C.2542

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 Root FWD 19 128.3 P2p

Switch#

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top

Switch1

Physical

Config

CLI

Attributes

IOS Command Line Interface

changed state to up

Switch>enable

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 000A.4109.64C1

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 000C.CF69.18E8

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

Fa0/2 Root FWD 19 128.2 P2p

Switch#

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top

Switch2

Physical

Config

CLI

Attributes

IOS Command Line Interface

changed state to up

Switch>enable

Switch#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 000A.4109.64C1

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 000A.4109.64C1

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 Desg FWD 19 128.2 P2p

Switch#

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top

SW 1

No	Variabel	Nilai
1	Root ID	32769, 000A.4109.64C1
2	Priority	32769
3	Mac Address	000A.4109.64C1
4	Bridge ID	31769, 0090.0C2C.2542
5	Cost(0/1;0/2;0/3)	19,19,19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
	Role	Sts
Fa 0/1	Desg	FWD
Fa 0/3	Root	FWD

SW 2

No	Variabel	Nilai
1	Root ID	32769, 000A.4109.64C1
2	Priority	32769
3	Mac Address	000A.4109.64C1
4	Bridge ID	31769, 000C.CF69.18E8
5	Cost(0/1;0/2;0/3)	19,19,19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
	Role	Sts
Fa 0/1	Desg	FWD
Fa 0/2	Root	FWD

SW 1

No	Variabel	Nilai
1	Root ID	32769, 000A.4109.64C1
2	Priority	32769
3	Mac Address	000A.4109.64C1
4	Bridge ID	31769, 000A.4109.64C1
5	Cost(0/1;0/2;0/3)	19,19,19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec
	Role	Sts
Fa 0/1	Desg	FWD
Fa 0/2	Desg	FWD

Fa 0/3	Desg	FWD
-----------	------	-----

Tugas 4c pada kondisi default tersebut, Switch dan port mana saja yang

- Menjadi root bridge : SW 3 ,
- Menjadi Designated bridge : SW 3
- Menjadi root port : SW 2 , SW 1
- Menjadi Designated port : SW 1, SW 2

Tugas 4d pada kondisi default tersebut, port mana saja yang

- Berada pada keadaan Forwarding : SW 3, SW 2, SW 1
- Berada pada keadaan Blocking : Tidak Ada

Ping PC Leo ke Virgo

