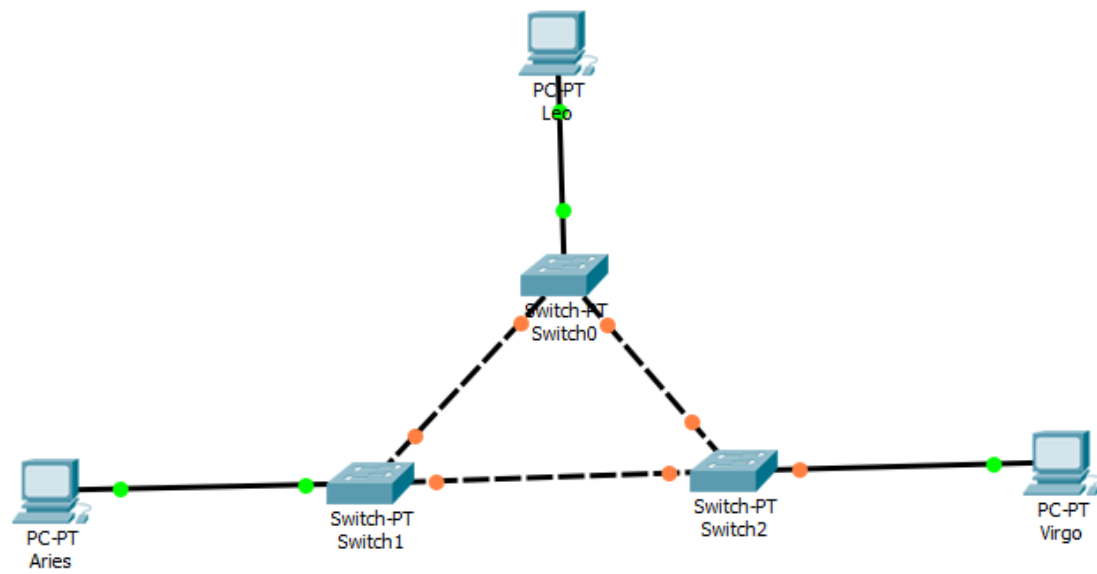


Nama = Nadhifah Chairunnisa

NIM = L200184137

## TOPOLOGI 1



## IP CONFIGURATION

Virgo

— □ ×

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ 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::2D0:FFFF:FE26:E3E5

IPv6 Gateway

IPv6 DNS Server

☐ Top

Aries

— □ ×

Physical Config Desktop Programming Attributes

IP Configuration X

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::290:CFF:FEBC:D729

IPv6 Gateway

IPv6 DNS Server

☐ Top

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::201:63FF:FE1D:B790

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

## SHOW SPANNING TREE

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set Tiled Background Viewport Environment: 00:17:30

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    000A.F309.DA6E
           Cost      15
           Port      2 (FastEthernet1/1)
           Hello Time 2 sec Max Age 20 sec Forward Delay 15
           sec

Bridge ID   Priority    32769 (priority 32768 sys-id-ext 1)
           Address    00D0.9714.88DC
           Hello Time 2 sec Max Age 20 sec Forward Delay 15
           sec

Aging Time  20

Interface   Role Sts Cost      Prio.Nbr Type
-----
Fa1/1       Root FWD 19        128.2   P2p
Fa0/1       Desg FWD 19        128.1   P2p
Fa2/1       Desg FWD 19        128.3   P2p

Switch>
```

Ctrl+F6 to exit CLI focus

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Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    000A.F309.DA6E
           Cost      15
           Port      2 (FastEthernet1/1)
           Hello Time 2 sec Max Age 20 sec Forward Delay 15
           sec

Bridge ID   Priority    32769 (priority 32768 sys-id-ext 1)
           Address    000A.F309.DA6E
           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
Fa2/1       Desg FWD 19        128.3   P2p
Fa1/1       Desg FWD 19        128.2   P2p

Switch>
```

Ctrl+F6 to exit CLI focus

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Switch2

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    000A.F309.DA6E
           Cost      15
           Port      2 (FastEthernet2/1)
           Hello Time 2 sec Max Age 20 sec Forward De
           sec

Bridge ID   Priority    32769 (priority 32768 sys-id-ext
           Address    00D0.D3D8.26C7
           Hello Time 2 sec Max Age 20 sec Forward De
           sec

Aging Time  20

Interface   Role Sts Cost      Prio.Nbr Type
-----
Fa0/1       Desg FWD 19        128.1   P2p
Fa1/1       Altn BLK 19        128.2   P2p
Fa2/1       Root FWD 19        128.3   P2p

Switch>
```

Ctrl+F6 to exit CLI focus

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Top

Automatically Choose Connection Type

ENG 1:25 PM

## SW1

No	Variable	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	000A.F309.DA6E

4.	Bridge ID	32769
5.	Cost (0/1; 0/2; 0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

#### SW2

No	Variable	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	000A.F309.DA6E
4.	Bridge ID	32769
5.	Cost (0/1; 0/2; 0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

#### SW3

No	Variable	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	000A.F309.DA6E
4.	Bridge ID	32769
5.	Cost (0/1; 0/2; 0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

#### TUGAS 4C

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

d) Designated port : SW1(Fa0/1), SW2(Fa0/1 dan Fa0/3), SW3(Fa0/1, Fa0/2, dan Fa0/3)

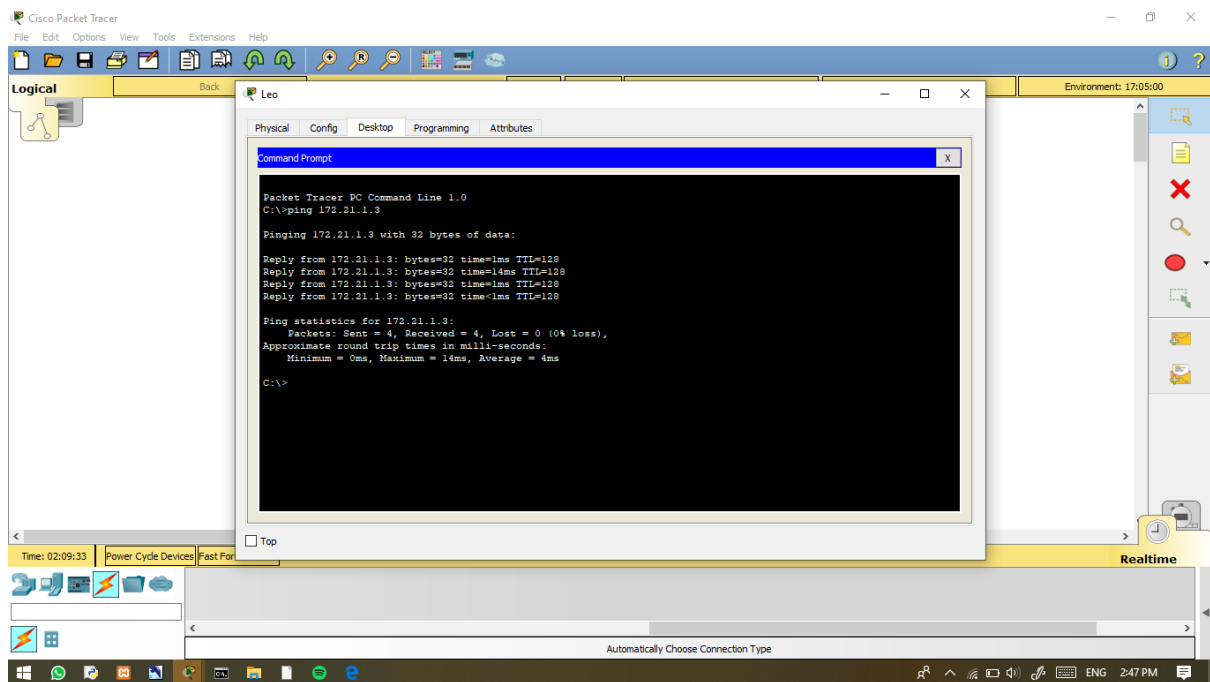
#### TUGAS 4D

a) Keadaan forwarding : SW1 (Fa0/1 dan Fa0/3) , SW2(Fa0/1 Fa0/2 Fa0/3), SW3(Fa0/1 Fa0/2 Fa0/3)

b) Keadaan blocking : SW1 (Fa0/2)

#### PING LEO KE VIRGO

1. Klik PC Leo
2. Pilih tab desktop
3. Pilih command prompt
4. Ketikkan ping 172.21.1.3



#### SIMPAN KONFIGURASI JARINGAN

1. Klik File
2. Pilih Save As
3. Beri nama lab2, ekstensi akan menyesuaikan dengan aplikasi yang kita gunakan



Cisco Packet Tracer - E:\UMS\semester 4\Prak JarKom\Modul\_6\lab2.pkt

File Edit Options View Tools Extensions Help

Logical Back Switch2 Viewport Environment: 22:39:30

PC-PT Aries

IOS Command Line Interface

```
Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    000B.F309.DA6E
           Cost        19
           Port        3(FastEthernet2/1)
           Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
           Address    00D0.D328.26C7
           Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
           Aging Time  20
Interface Role Sts Cost Prio.Mbr Type
-----
Fa0/1     Desg FWD 19   128.1 P2p
Fa1/1     Desg FWD 19   128.2 P2p
Fa2/1     Root FWD 19   128.3 P2p
Switch>
```

Ctrl+F6 to exit CLI focus

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Time: 02:20:39 Power Cycle Devices Fast Forward Time

Realtime

Automatically Choose Connection Type

Cisco Packet Tracer - E:\UMS\semester 4\Prak JarKom\Modul\_6\lab2.pkt

File Edit Options View Tools Extensions Help

Logical Back Switch1 Viewport Environment: 22:42:30

PC-PT Aries

IOS Command Line Interface

```
changed state to down

Switch>show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
           Address    000A.F309.DA6E
           Cost        19
           Port        3(FastEthernet2/1)
           Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
           Address    00D0.D328.26C7
           Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
           Aging Time  20
Interface Role Sts Cost Prio.Mbr Type
-----
Fa0/1     Desg FWD 19   128.1 P2p
Fa2/1     Desg FWD 19   128.3 P2p
Switch>
```

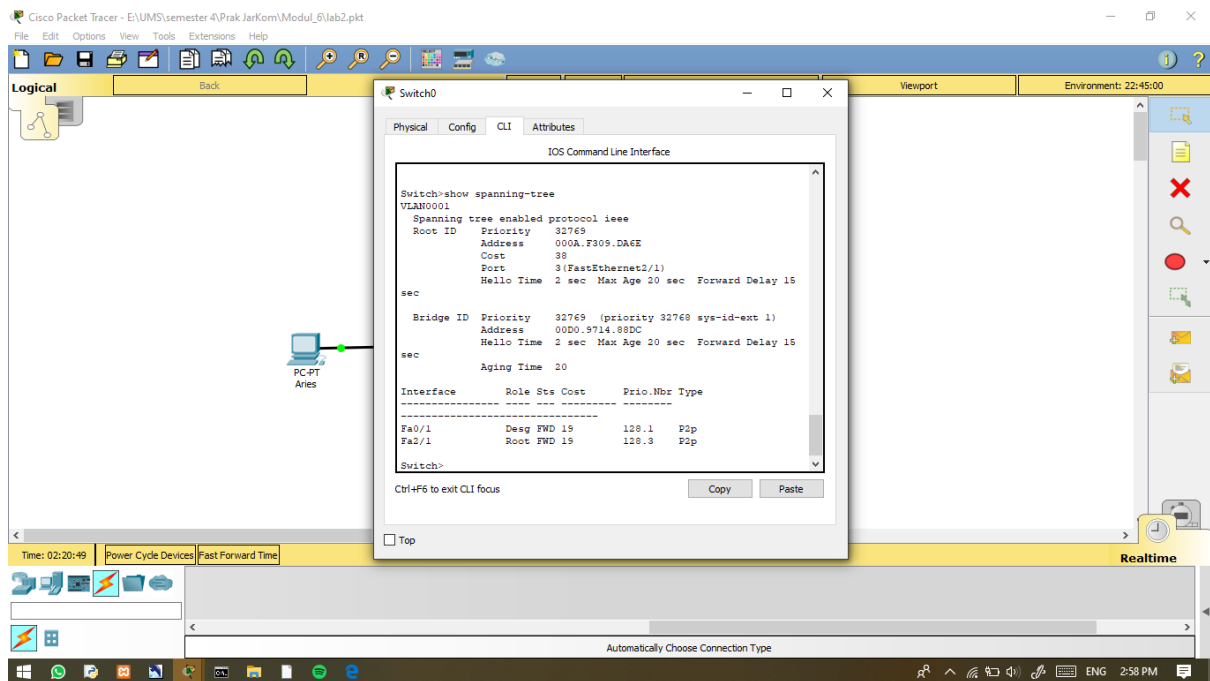
Ctrl+F6 to exit CLI focus

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Time: 02:20:44 Power Cycle Devices Fast Forward Time

Realtime

Automatically Choose Connection Type



## SW1

No	Variable	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	000D0.9174.88DC
4.	Bridge ID	32769
5.	Cost (0/1; 0/2; 0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

## SW2

No	Variable	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	000A.F309.DA6E
4.	Bridge ID	32769
5.	Cost (0/1; 0/2; 0/3)	19



6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

#### SW3

No	Variable	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	00D0.D328.26C7
4.	Bridge ID	32769
5.	Cost (0/1; 0/2; 0/3)	19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

#### TUGAS 4C

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

#### TUGAS 4D

- a) Keadaan forwarding : SW1 (Fa0/2 dan Fa0/3) , SW2(Fa0/2 Fa0/3), SW3(Fa0/1 Fa0/2 Fa0/3)
- b) Keadaan blocking : tidak ada

#### PING LEO KE VIRGO

