

LAPORAN PRAKTIKUM JARINGAN KOMPUTER

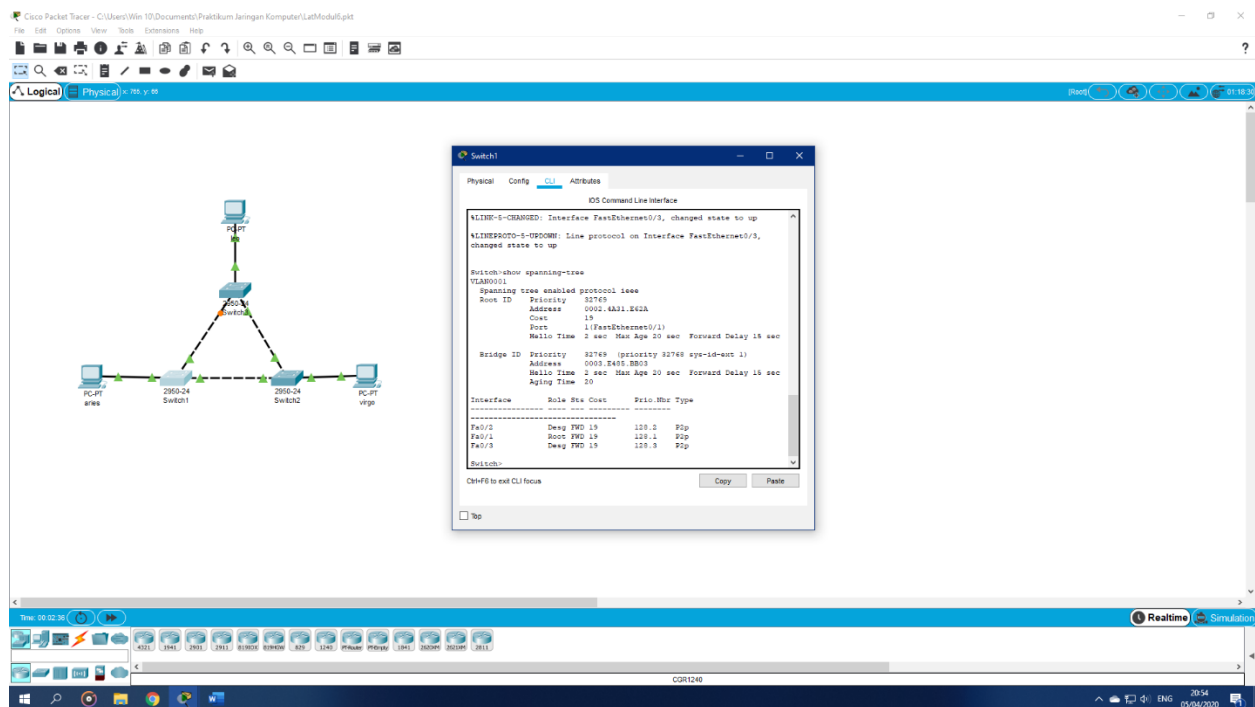
MODUL 5

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Kelas : A

Kegiatan 1. Topologi 1



Cisco Packet Tracer - C:\Users\Win 10\Documents\Praktikum Jaringan Komputer\LabModul6.pkt

File Edit Options View Tools Extensions Help

Logical Physical v6 v 62

Time: 00:01:16

Realtime Simulation

Switch2

IOS Command Line Interface

```
ALINE-1-CRAB002: Interface FastEthernet0/3, changed state to up
ALINE9020-1-09000W: Line protocol on Interface FastEthernet0/3,
changed state to up

Switch>show spanning-tree
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority
            32769
  Address    0002.4331.842A
  This bridge is the root
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

  Bridge ID Priority 32769 (priority 32769 sys-id-ext 1)
  Address    0002.4331.842A
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
  Aging Time 30

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

Switch>
```

Ctrl-F to exit CLI focus

Copy Paste

Yes

Time: 00:01:16

Realtime Simulation

05/04/2020

Cisco Packet Tracer - C:\Users\Win 10\Documents\Praktikum Jaringan Komputer\LabModul6.pkt

File Edit Options View Tools Extensions Help

Logical Physical v6 v 62

Time: 00:01:36

Realtime Simulation

Switch3

IOS Command Line Interface

```
ALINE-1-CRAB002: Interface FastEthernet0/3, changed state to up
ALINE9020-1-09000W: Line protocol on Interface FastEthernet0/3,
changed state to up

Switch>show spanning-tree
Switch>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority
            32769
  Address    0002.4331.842A
  Cost       19
  Port       21(FastEthernet0/2)
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

  Bridge ID Priority 32769 (priority 32769 sys-id-ext 1)
  Address    0090.1B0D.C165
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
  Aging Time 30

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

Switch>
```

Ctrl-F to exit CLI focus

Copy Paste

Yes

Time: 00:01:36

Realtime Simulation

05/04/2020

Tabel :

❖ SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0002.4A31.E62A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

❖ SW2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0002.4A31.E62A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	-
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

❖ SW3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0002.4A31.E62A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

Tugas 4C

Pada kondisi default tersebut mana saja.

- Menjadi root bridge : SW2
- Menjadi designated bridge : SW3
- Menjadi root port : SW1(0/2), SW3(0/3)
- Menjadi designated port : SW3(0/3)

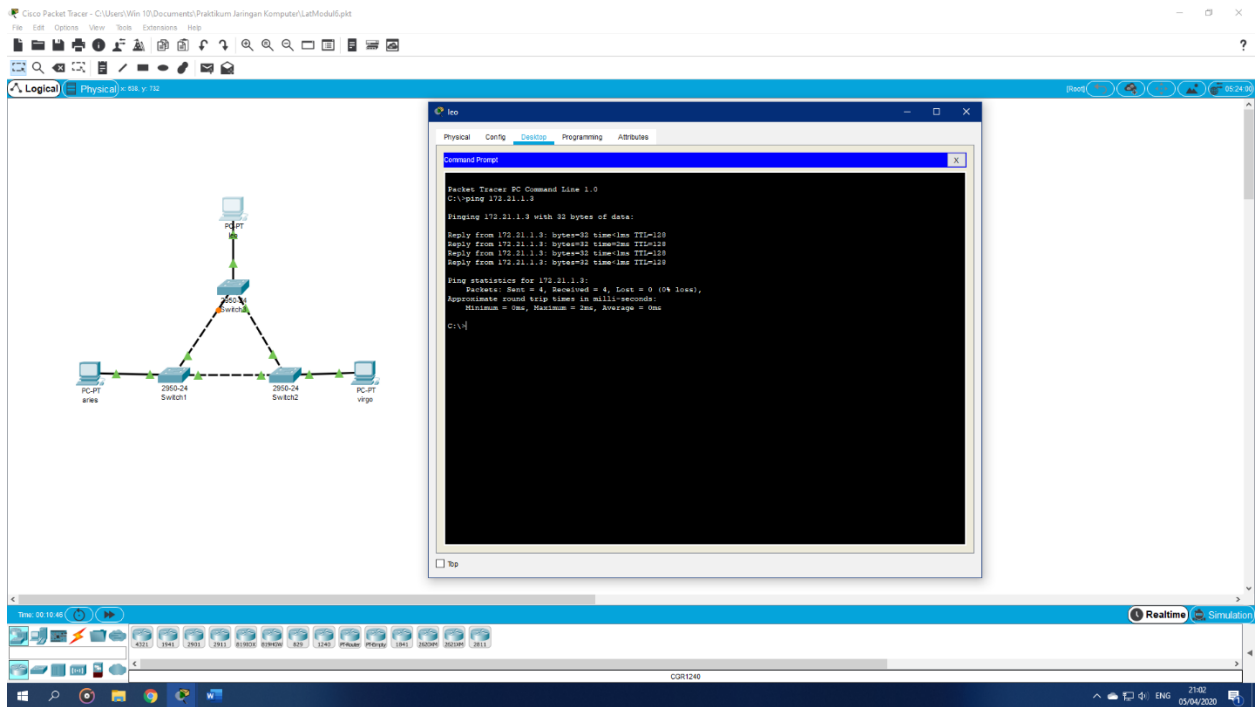
Tugas 4D

Pada kondisi default tersebut,dan port mana saja yang.

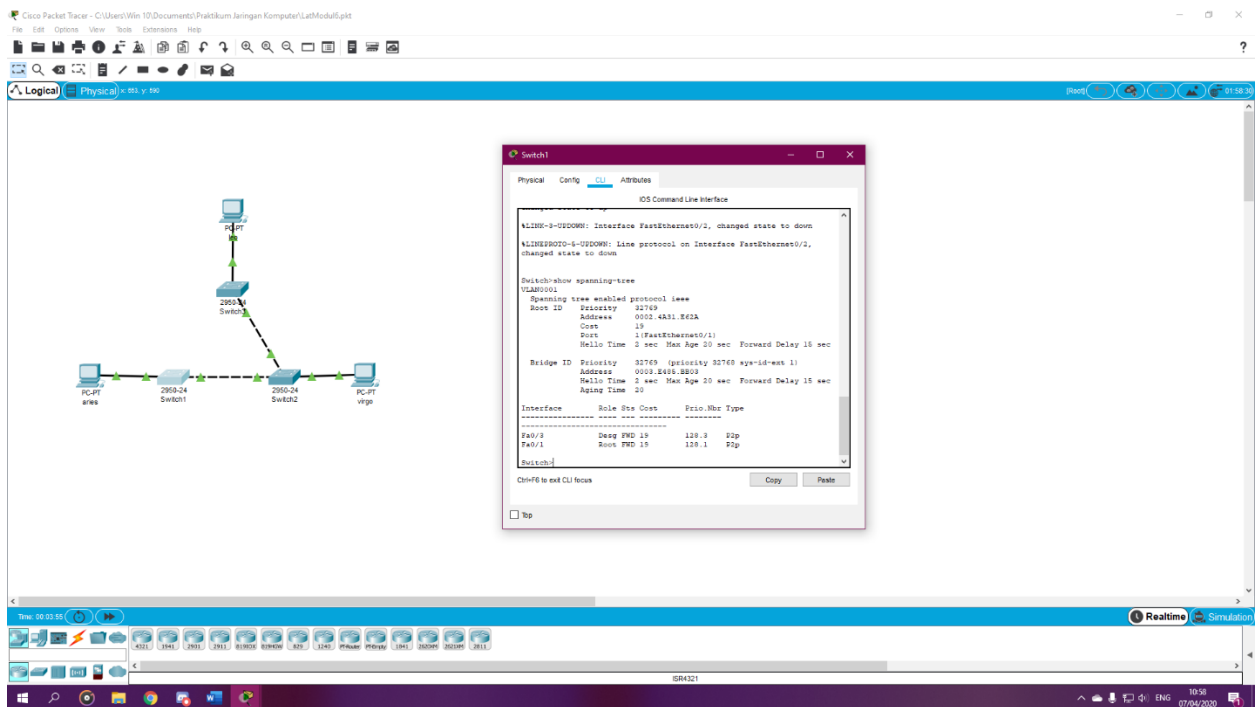
- Berada pada keadaan forwarding : SW1(0/1, 0/2), SW2(0/1, 0/2, 0/3), dan SW3(0/1, 0/2, 0/3)
- Berada pada keadaan blocking : SW1(fa 0/2)

Tugas 5A

Melakukan ping dari leo ke virgo



Kegiatan 2. Topologi 2



Cisco Packet Tracer - C:\Users\Win 10\Documents\Praktikum Jaringan Komputer\LabModul6.pkt

File Edit Options View Tools Extensions Help

Logical [Physical] x 97 v 977

Time: 00:04:17

Realtime Simulation

Switch2

IOS Command Line Interface

```
ALINE-1-CHANGED: Interface FastEthernet0/3, changed state to up
ALINEPOTD-1-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority
            32769
  Root ID    Address      0002.4311.843A
            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 0002.4311.843A
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 30

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

Switch#
```

Ctrl-F to exit CLI focus

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ISR4321

10:59 07/04/2020

Cisco Packet Tracer - C:\Users\Win 10\Documents\Praktikum Jaringan Komputer\LabModul6.pkt

File Edit Options View Tools Extensions Help

Logical [Physical] x 97 v 977

Time: 00:04:26

Realtime Simulation

Switch3

IOS Command Line Interface

```
ALINE-1-DOWN: Interface FastEthernet0/1, changed state to down
ALINEPOTD-1-DOWN: Line protocol on Interface FastEthernet0/1,
changed state to down

Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority
            32769
  Root ID    Address      0002.4311.843A
            Cost 19
            Port 11(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 0002.1B2D.C165
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 30

Interface    Role Sts Cost      Prio.Nbr Type
-----
Fa0/1       Root FWD 19        128.2 P2p
Fa0/3       Desg FWD 15        128.3 P2p

Switch#
```

Ctrl-F to exit CLI focus

☐ Top

ISR4321

10:59 07/04/2020

Tabel :

❖ SW1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0002.4A31.E62A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

❖ SW2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0002.4A31.E62A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	-
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

❖ SW3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0002.4A31.E62A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Fordward Delay	15 sec

Pada kondisi default tersebut mana saja.

- Menjadi root bridge : SW2
- Menjadi designated bridge : SW3
- Menjadi root port : SW1(0/2), SW3(0/3)
- Menjadi designated port : SW3(0/3)

Pada kondisi default tersebut,dan port mana saja yang.

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

Melakukan ping dari PC Leo ke PC Virgo

Cisco Packet Tracer - C:\Users\Win 10\Documents\Praktikum Jaringan Komputer\LatModul6.pkt

File Edit Options View Tools Extensions Help

Logical Physical PC Time 0:00 (Realtime Simulation)

```
graph LR
    PC[PC] --- S1[Switch]
    S1 --- S2[Switch]
    S2 --- S3[Switch]
    S3 --- PC2[PC]
```

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.9
Ping request could not find host 172.21.1.9. Please check the name and try again.
C:\>ping 172.21.1.9

Pinging 172.21.1.9 with 32 bytes of data:
Reply from 172.21.1.9: bytes=32 time=1ms TTL=128
Reply from 172.21.1.9: bytes=32 time=1ms TTL=128
Reply from 172.21.1.9: bytes=32 time=1ms TTL=128
Reply from 172.21.1.9: bytes=32 time=1ms TTL=128

Ping statistics for 172.21.1.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
```

Time: 01:04:20

Realtime Simulation

2901

10:59 07/04/2020