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Kegiatan 1

The image displays two screenshots of the Cisco Packet Tracer interface, showing a network topology and a CLI window for configuring Spanning Tree Protocol (STP).

Network Topology: The topology consists of three switches (S1, S2, S3) connected in a triangle. S1 is connected to S2 and S3. S2 is connected to S1 and S3. S3 is connected to S1 and S2. Each switch has a PC connected to it. The switches are labeled with their IDs: S1 (2950-24), S2 (2950-24), and S3 (2950-24).

CLI Window (Switch S1): The CLI window shows the configuration for STP on Switch S1. The configuration is as follows:

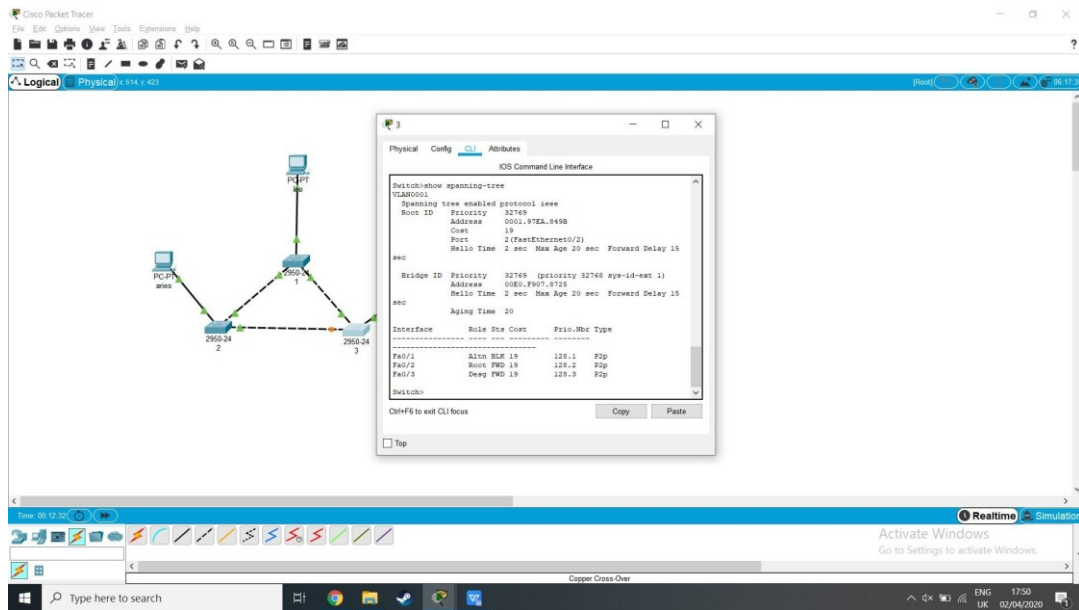
```
Switch>show spanning-tree
Switch S1
Spanning tree enabled protocol ieee
Root ID    Priority    32769
Address    0001.97EA.445B
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID   Priority    32769 (priority 32768 sys-id-ext 1)
Address     0001.97EA.445B
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20
Interface   Role Sts Cost Prio.Nbr Type
-----
Fa0/20      Desg FWD 19 128.2 P2p
Fa0/21      Desg FWD 19 128.3 P2p
Fa0/22      Root FWD 19 128.1 P2p
```

The CLI window also shows the configuration for STP on Switch S2 and S3. The configuration is as follows:

```
Switch>show spanning-tree
Switch S2
Spanning tree enabled protocol ieee
Root ID    Priority    32769
Address    0001.97EA.445B
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     0001.97EA.445B
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20
Interface   Role Sts Cost Prio.Nbr Type
-----
Fa0/20      Desg FWD 19 128.2 P2p
Fa0/21      Desg FWD 19 128.3 P2p
Fa0/22      Root FWD 19 128.1 P2p
```

The CLI window also shows the configuration for STP on Switch S3. The configuration is as follows:

```
Switch>show spanning-tree
Switch S3
Spanning tree enabled protocol ieee
Root ID    Priority    32769
Address    0001.97EA.445B
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     0001.97EA.445B
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20
Interface   Role Sts Cost Prio.Nbr Type
-----
Fa0/20      Desg FWD 19 128.2 P2p
Fa0/21      Desg FWD 19 128.3 P2p
Fa0/22      Root FWD 19 128.1 P2p
```



SW 1

| No | Variabel | Nilai |
|----|-------------------|----------------|
| 1 | Root ID | - |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.97EA.849B |
| 4 | Bridge ID | - |
| 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 |

SW 2

| No | Variabel | Nilai |
|----|-------------------|----------------|
| 1 | Root ID | - |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.97EA.849B |
| 4 | Bridge ID | - |
| 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 |

SW 3

| No | Variabel | Nilai |
|----|-------------------|----------------|
| 1 | Root ID | - |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.97EA.849B |
| 4 | Bridge ID | - |
| 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 |

SW 1

Fa0/1 = Designated
Fa0/2 = Designated
Fa0/3 = Designated

SW 2

Fa0/1 = Root
Fa0/2 = Designated
Fa0/3 = Designated

SW 3

Fa0/1 = Alternatif
Fa0/2 = Root
Fa0/3 = Designated

SW 1

Fa0/1 = Forward
Fa0/2 = Forward
Fa0/3 = Forward

SW 2

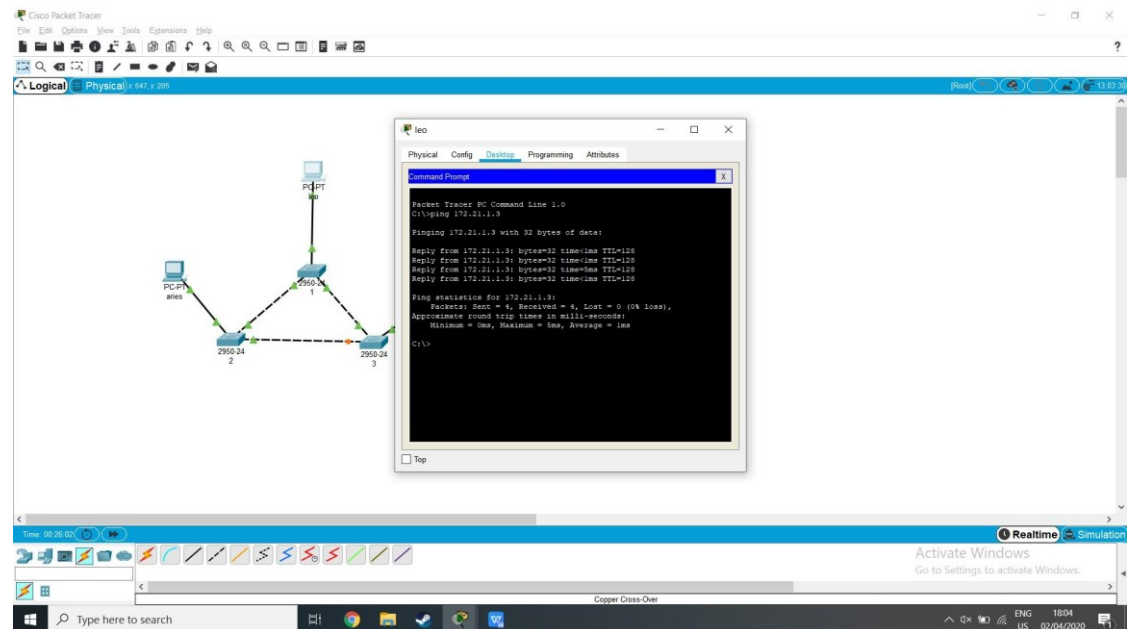
Fa0/1 = Forward
Fa0/2 = Forward
Fa0/3 = Forward

SW 3

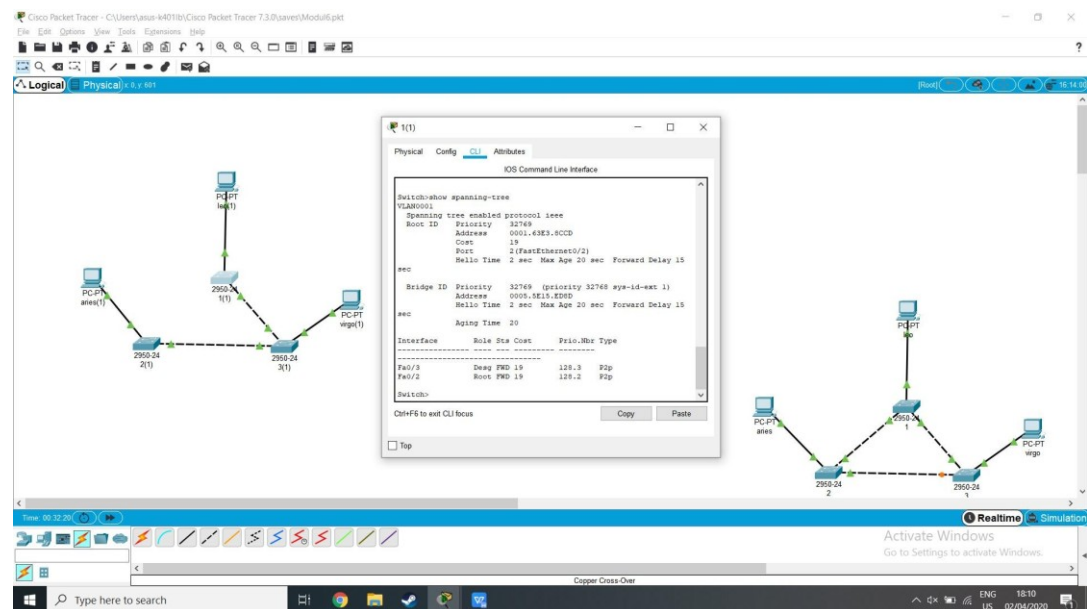
Fa0/1 = Block

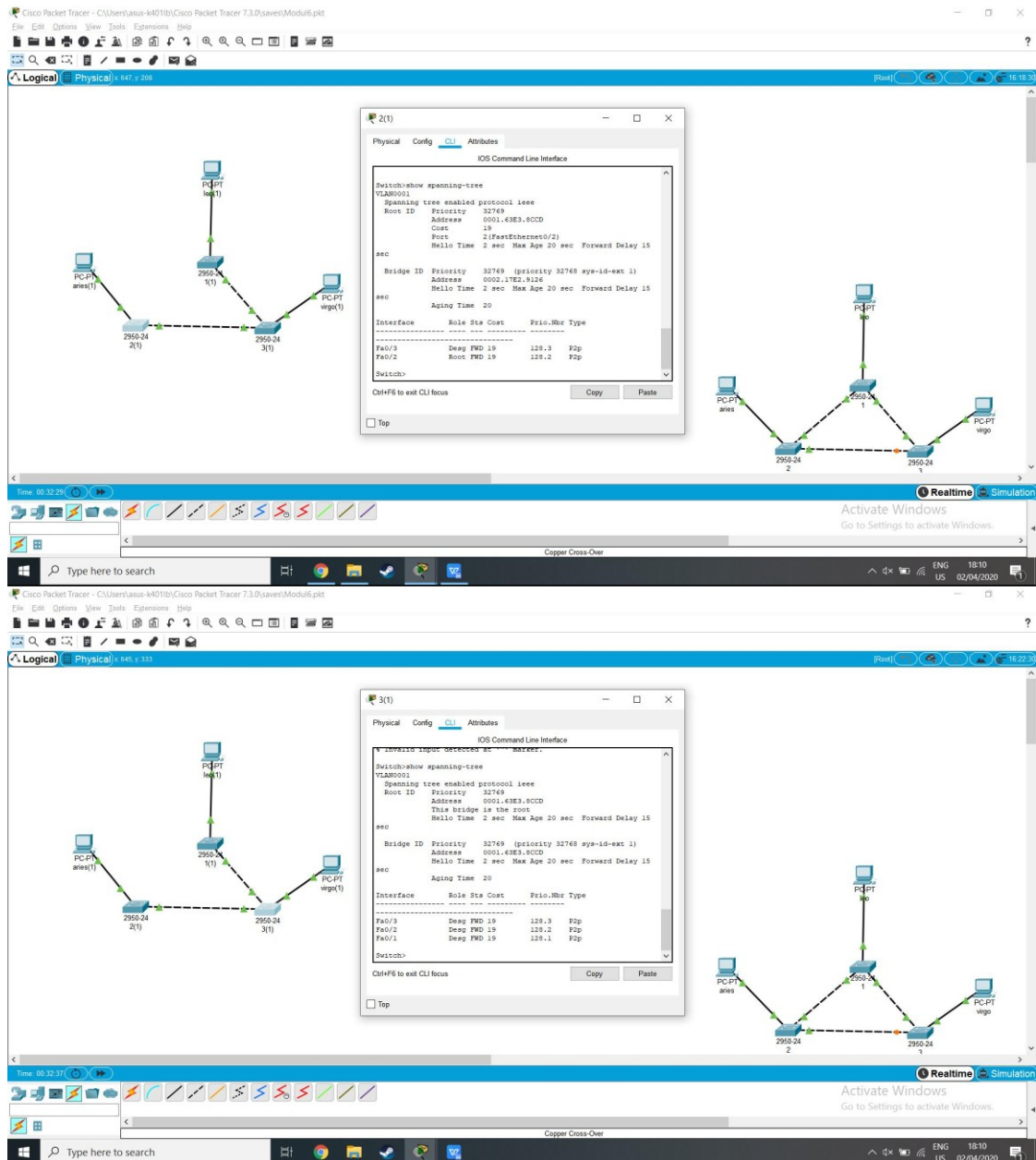
Fa0/2 = Forward

Fa0/3 = Forward



Kegiatan 2





SW 1

| No | Variabel | Nilai |
|----|---------------|----------------|
| 1 | Root ID | - |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.63E3.8CCD |
| 4 | Bridge ID | - |
| 5 | Cost(0/2;0/3) | 19;19 |
| 6 | Hello Time | 2 Sec |
| 7 | MaxAge | 20 Sec |
| 8 | Forward Delay | 15 Sec |

SW 2

| No | Variabel | Nilai |
|----|---------------|----------------|
| 1 | Root ID | - |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.63E3.8CCD |
| 4 | Bridge ID | - |
| 5 | Cost(0/2;0/3) | 19;19 |
| 6 | Hello Time | 2 Sec |
| 7 | MaxAge | 20 Sec |
| 8 | Forward Delay | 15 Sec |

SW 3

| No | Variabel | Nilai |
|----|-------------------|----------------|
| 1 | Root ID | - |
| 2 | Priority | 32769 |
| 3 | MAC Address | 0001.63E3.8CCD |
| 4 | Bridge ID | - |
| 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 |

SW 1

Fa0/2 = Root

Fa0/3 = Designated

SW 2

Fa0/2 = Root

Fa0/3 = Designated

SW 3

Fa0/1 = Designated

Fa0/2 = Designated

Fa0/3 = Designated

SW 1

Fa0/2 = Forward

Fa0/3 = Forward

SW 2

Fa0/2 = Forward

Fa0/3 = Forward

SW 3

Fa0/1 = Forward

Fa0/2 = Forward

Fa0/3 = Forward