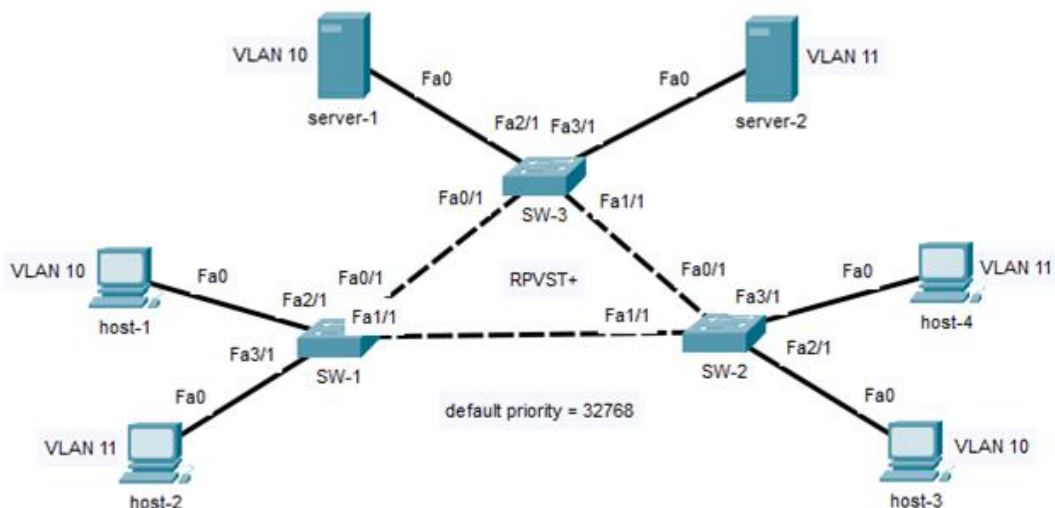


Root Bridge Selection

Lab Summary

Manually change the root bridge to SW-3 for VLAN 10 and VLAN 11 with the switch priority command.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: **root bridge selection.pkt**

Click on SW-2 icon and select *CLI* folder.

Step 1: Enter global configuration mode.

```
SW-2> enable
SW-2#
```

Step 2: Verify the root bridge for VLAN 10 and VLAN 11 is SW-2 (resize box).

```
SW-2# show spanning-tree vlan 10
SW-2# show spanning-tree vlan 11
```

Click on SW-3 icon and select *CLI* folder.

Step 3: Enter global configuration mode.

```
SW-3> enable
SW-3# configure terminal
```

Step 4: Configure priority 0 for VLAN 10 and VLAN 11 to assign root bridge.

```
SW-3(config)# spanning-tree vlan 10 priority 0
SW-3(config)# spanning-tree vlan 11 priority 0
SW-3(config)# end
SW-3# copy running-config startup-config
```

Step 5: Verify Lab

Verify the root bridge for VLAN 10 and VLAN 11 is now SW-3 and all interfaces are designated ports.

```
SW-3# show spanning-tree summary
```

```
SW-3# show spanning-tree vlan 10
```

```
VLAN0010
```

```
Spanning tree enabled protocol rstp
```

```
Root ID Priority 10
```

```
Address 0090.2149.B1D8
```

```
This bridge is the root
```

```
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

```
Bridge ID Priority 10 (priority 0 sys-id-ext 10)
```

```
Address 0090.2149.B1D8
```

```
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

```
SW-3# show spanning-tree vlan 11
```

```
VLAN0011
```

```
Spanning tree enabled protocol rstp
```

```
Root ID Priority 11
```

```
Address 0090.2149.B1D8
```

```
This bridge is the root
```

```
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

```
Bridge ID Priority 11 (priority 0 sys-id-ext 11)
```

```
Address 0090.2149.B1D8
```

```
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

```
Aging Time 20
```

Interface	Role	Sts	Cost	Prio.Nbr	Type
Fa3/1	Desg	FWD	19	128.4	P2p
Fa0/1	Desg	FWD	19	128.1	P2p
Fa1/1	Desg	FWD	19	128.2	P2p