

CCNA LAB 2-3: Spanning Tree Protocol (STP)

[ตั้งค่าที่ Ranet Core-SW (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

```
Ranet-CoreSW>en
Ranet-CoreSW#sh spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
   Address    0002.4A0B.19DB
   Cost       4
   Port       26(GigabitEthernet0/2)
   Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
   Address    0090.216A.C001
   Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
   Aging Time 20

Interface    Role Sts Cost    Prio.Nbr Type
-----
Gi0/1        Desg FWD 4      128.25 P2p
Gi0/2        Root FWD 4      128.26 P2p

Ranet-CoreSW#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Ranet-CoreSW(config)#spanning-tree vlan 1 root primary
Ranet-CoreSW(config)#
Ranet-CoreSW#
%SYS-5-CONFIG_I: Configured from console by console
Ranet-CoreSW#sh spanning-tree
VLAN0001
```

```
Spanning tree enabled protocol ieee
Root ID Priority 24577
    Address 0090.216A.C001
    This bridge is the root
    Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

```
Bridge ID Priority 24577 (priority 24576 sys-id-ext 1)
    Address 0090.216A.C001
    Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
    Aging Time 20
```

| Interface | Role | Sts | Cost | Prio. | Nbr | Type |
|-----------|------|-----|------|--------|-----|------|
| ----- | | | | | | |
| Gi0/1 | Desg | FWD | 4 | 128.25 | | P2p |
| Gi0/2 | Altn | BLK | 4 | 128.26 | | P2p |

```
Ranet-CoreSW#copy run start
```

```
Destination filename [startup-config]?
```

```
Building configuration...
```

```
[OK]
```

```
Ranet-CoreSW#
```

[ตั้งค่าที่ Ranet SW3 (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

```
Ranet-SW3>en
```

```
Ranet-SW3#sh spanning-tree
```

```
VLAN0001
```

```
Spanning tree enabled protocol ieee
```

```
Root ID Priority 24577
```

```
    Address 0090.216A.C001
```

```
    Cost 4
```

```
    Port 25(GigabitEthernet1/1)
```

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

```
Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
```

```
    Address 0002.4A0B.19DB
```

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

Aging Time 20

| Interface | Role | Sts | Cost | Prio. | Nbr | Type |
|-----------|------|-----|------|--------|-----|------|
| Gi1/1 | Root | FWD | 4 | 128.25 | | P2p |
| Fa0/1 | Desg | FWD | 19 | 128.1 | | P2p |

Ranet-SW3#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Ranet-SW3(config)#spanning-tree vlan 1 priority ?

<0-61440> bridge priority in increments of 4096

Ranet-SW3(config)#spanning-tree vlan 1 priority 61440

Ranet-SW3(config)#

Ranet-SW3#

%SYS-5-CONFIG_I: Configured from console by console

Ranet-SW3#sh spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 24577

Address 0090.216A.C001

Cost 4

Port 25(GigabitEthernet1/1)

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

Bridge ID Priority 61441 (priority 61440 sys-id-ext 1)

Address 0002.4A0B.19DB

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

Aging Time 20

| Interface | Role | Sts | Cost | Prio. | Nbr | Type |
|-----------|------|-----|------|--------|-----|------|
| Gi1/1 | Root | FWD | 4 | 128.25 | | P2p |
| Fa0/1 | Desg | FWD | 19 | 128.1 | | P2p |

Ranet-SW3#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

Ranet-SW3#

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(เมื่อรอสักครู่ จะพบว่า Blocked Port บน Ranet-SW2 เปลี่ยนมาเป็นพอร์ต Fa0/2 แทน เนื่องจากค่า Sender BridgeID ที่ได้รับจาก Ranet-SW3 เปลี่ยนแปลง)

