

CONFIGURATION DU SPANNING TREE SUR LES SWITCHS :

Objectif :

Configurer les switches pour parer la maquette à une éventuelle coupure / rupture d'un lien.

Switch cœur :

```
SWCOEUR#conf t
Enter configuration commands, one per line. End with CNTL/Z
SWCOEUR(config)#spanning-tree mode pvst
SWCOEUR(config)#spanning-tree vlan 1,10,20,30,40,50,60,70,80,100 priority
SWCOEUR(config)#end
```

Switch RC :

```
Switch_RC#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch_RC(config)# spanning-tree mode pvst
Switch_RC(config)#spanning-tree vlan 1,10,20,30,40,50,60,70,80,100 priority
Switch_RC(config)#int fa0/24
Switch_RC(config-if)#switchport mode trunk
Switch_RC(config-if)#end
```

Switch 1^{er} :

```
Switch_1e#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch_1e(config)# spanning-tree mode pvst
Switch_1e(config)# spanning-tree vlan 1,10,20,30,40,50,60,70,80,100 priority
Switch_1e(config)#interface range fa0/23-24
Switch_1e(config-if-range)#switchport mode trunk
Switch_1e(config-if-range)#end
```

Switch 2^{ème} :

```
Switch_2eServ#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch_2eServ(config)# spanning-tree mode pvst
Switch_2eServ(config)# spanning-tree vlan 1,10,20,30,40,50,60,70,80,100 priority
Switch_2eServ(config)#interface gigabitEthernet 1/0/23
Switch_2eServ(config-if)#switchport mode trunk
Switch_2eServ(config-if)#end
```

VERIFICATION LA CONFIGURATION DES SWITCHS :

Switch cœur :

```
SWCOEUR#sh spanning-tree
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    24577
             Address    28ac.9ecc.fd00
             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    28ac.9ecc.fd00
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  300 sec

Interface                Role Sts Cost      Prio.Nbr Type
-----
Gi1/0/1                  Desg FWD 4         128.1    P2p
Gi1/0/2                  Desg FWD 4         128.2    P2p Peer(STP)
Gi1/0/3                  Desg FWD 4         128.3    P2p
```

Switch RC :

```
Switch_RC#sh sp
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    24577
             Address    28ac.9ecc.fd00
             Cost        4
             Port        25 (GigabitEthernet0/1)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address    a456.30aa.3780
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  300 sec

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/24                  Altn BLK 19         128.24    P2p Peer(STP)
Gi0/1                   Root FWD 4         128.25    P2p
```

Switch 1^{er} :

```
Switch_1e(config)#do sh sp
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    24577
             Address    28ac.9ecc.fd00
             Cost        4
             Port        25 (GigabitEthernet0/1)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address    203a.0726.9580
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  300 sec

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/23                  Altn BLK 19         128.23    P2p
Fa0/24                  Desg BLK 19         128.24    P2p
Gi0/1                   Root FWD 4         128.25    P2p
```

Switch 2^{ème} :

Switch_2eServ#sh sp

VLAN0001

Spanning tree **enabled** protocol rstp
Root ID Priority 24577
 Address 28ac.9ecc.fd00
 Cost 4
 Port 24 (GigabitEthernet1/0/24)
 Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
 Address 0077.8d70.ed00
 Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Aging Time 300 sec

Interface	Role	Sts	Cost	Prio.Nbr	Type
-----	-----	-----	-----	-----	-----
Gi1/0/23	Desg	FWD	19	128.23	P2p Peer(STP)
Gi1/0/24	Root	FWD	4	128.24	P2p