

H3C交换机与HP交换机MSTP互联典型配置

一 组网需求:

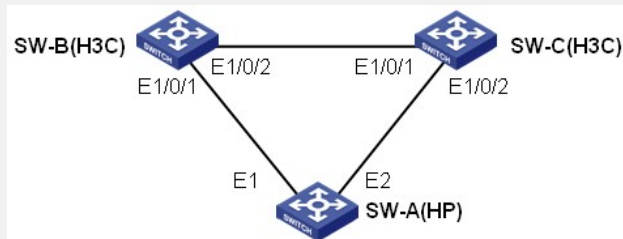
SW-B和SW-C为H3C交换机,充当核心层设备。SW-A为HP交换机,充当接入层设备分别双上联到SW-B和SW-C。三台交换机运行MSTP协议, SW-B为实例0和实例2的主根,实例1的备根; SW-C为实例1的主根,实例0和实例2的备根。不同的VLAN按照不同的生成树实例转发。

instance 0: VLAN 1

instance 1: VLAN 2

instance 2: VLAN 5

二 组网图:



三 配置步骤:

SW-A:

```

spanning-tree
spanning-tree config-name "abc"
spanning-tree instance 1 vlan 2
spanning-tree instance 2 vlan 5
vlan 1
  name "DEFAULT_VLAN"
  tagged 1-2
  exit
vlan 2
  name "VLAN2"
  tagged 1-2
  exit
vlan 5
  name "VLAN5"
  tagged 1-2
  exit
  
```

SW-B:

```

stp instance 0 root primary
stp instance 1 root secondary
stp instance 2 root primary
stp enable
stp region-configuration
  region-name abc
  instance 1 vlan 2
  instance 2 vlan 5
  active region-configuration
interface Ethernet1/0/1
  port link-type trunk
  port trunk permit vlan 1 to 2 5
interface Ethernet1/0/2
  port link-type trunk
  port trunk permit vlan 1 to 2 5
  
```

SW-C:

```

stp instance 0 root secondary
stp instance 1 root primary
stp instance 2 root secondary
  
```

```

stp enable
stp region-configuration
region-name abc
instance 1 vlan 2
instance 2 vlan 5
active region-configuration
interface Ethernet1/0/1
port link-type trunk
port trunk permit vlan 1 to 2 5
interface Ethernet1/0/2
port link-type trunk
port trunk permit vlan 1 to 2 5

```

四 结果验证:

SW-A(config)# show spanning-tree

```

Port  Type   | Cost  Priority State  |
-----|-----|-----|-----|
1    10/100TX | 200000 128   Forwarding |
2    10/100TX | 200000 128   Blocking  |

```

SW-A(config)# show spanning-tree instance 1

```

Port  Type   Cost  Priority Role   State
-----|-----|-----|-----|
1    10/100TX 200000 128   Alternate Blocking
2    10/100TX 200000 128   Root   Forwarding

```

SW-A(config)# show spanning-tree instance 2

```

Port  Type   Cost  Priority Role   State
-----|-----|-----|-----|
1    10/100TX 200000 128   Root   Forwarding
2    10/100TX 200000 128   Alternate Blocking

```

display stp brief

```

MSTID  Port          Role  STP State  Protection
-----|-----|-----|-----|
0      Ethernet1/0/1  DESI  FORWARDING  NONE
0      Ethernet1/0/2  DESI  FORWARDING  NONE
1      Ethernet1/0/1  DESI  FORWARDING  NONE
1      Ethernet1/0/2  ROOT  FORWARDING  NONE
2      Ethernet1/0/1  DESI  FORWARDING  NONE
2      Ethernet1/0/2  DESI  FORWARDING  NONE

```

display stp brief

```

MSTID  Port          Role  STP State  Protection
-----|-----|-----|-----|
0      Ethernet1/0/1  ROOT  FORWARDING  NONE
0      Ethernet1/0/2  DESI  FORWARDING  NONE
1      Ethernet1/0/1  DESI  FORWARDING  NONE
1      Ethernet1/0/2  DESI  FORWARDING  NONE
2      Ethernet1/0/1  ROOT  FORWARDING  NONE
2      Ethernet1/0/2  DESI  FORWARDING  NONE

```