

H3C与HP交换机MSTP互联典型配置

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一 组网需求:

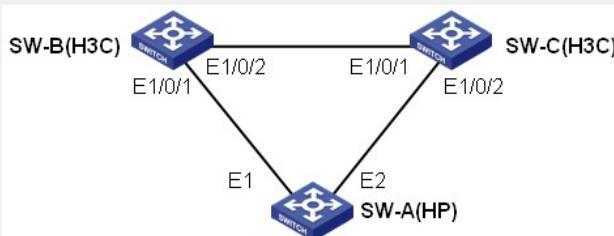
SW-B和SW-C为H3C交换机，充当核心层设备。SW-A为HP交换机，充当接入层设备分别双上联到SW-B和SW-C。三台交换机运行MSTP协议，SW-B为实例0和实例2的主根，实例1的备根；SW-C为实例1的主根，实例0和实例2的备根。不同的VLAN按照不同的生成树实例转发。

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