

## 组网及说明

### 组网说明:

本案例采用H3C S5500与思科2960对接二层链路聚合的典型组网。

H3C S5500的版本信息如下:

```
<H3C>dis version
```

H3C Comware Platform Software

Comware Software, Version 5.20, Release 5206

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H3C S5500-58C-HI uptime is 0 week, 0 day, 0 hour, 5 minutes

H3C S5500-58C-HI with 2 Processors

1024M bytes SDRAM

4096K bytes Nor Flash Memory

512M bytes Nand Flash Memory

Hardware Version is REV.C

CPLD Version is 003

Bootrom Version is 211

[SubSlot 0] 48GE+4SFP+2SFP PLUS Hardware Version is REV.C

```
<H3C>
```

思科2960版本信息如下:

```
Switch#sh version
```

Cisco IOS Software, C2960S Software (C2960S-UNIVERSALK9-M), Version 12.2(55)SE2, RELEASE SOFTWARE (fc1)

Technical Support: <http://www.cisco.com/techsupport>

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Image text-base: 0x00003000, data-base: 0x01B00000

ROM: Bootstrap program is Alpha board boot loader

BOOTLDR: C2960S Boot Loader (C2960S-HBOOT-M) Version 12.2(53r)SE, RELEASE SOFTWARE (fc3)

Switch uptime is 35 minutes

System returned to ROM by power-on

System image file is "flash:/c2960s-universalk9-mz.122-55.SE2/c2960s-universalk9-mz.122-55.SE2.bin"

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cisco WS-C2960S-48TS-S (PowerPC) processor (revision D0) with 131072K bytes of memory.  
Processor board ID FOC1517Y1DJ

Last reset from power-on  
1 Virtual Ethernet interface  
1 FastEthernet interface  
50 Gigabit Ethernet interfaces  
The password-recovery mechanism is enabled.

512K bytes of flash-simulated non-volatile configuration memory.

Base ethernet MAC Address : 88:F0:77:74:CA:80  
Motherboard assembly number : 73-12424-06  
Power supply part number : 341-0327-03  
Motherboard serial number : FOC15151KT0  
Power supply serial number : LIT144432G1  
Model revision number : D0  
Motherboard revision number : A0  
Model number : WS-C2960S-48TS-S  
Daughterboard assembly number : 73-11933-04  
Daughterboard serial number : FOC151627Y8  
System serial number : FOC1517Y1DJ  
Top Assembly Part Number : 800-32452-03  
Top Assembly Revision Number : A0  
Version ID : V03  
CLEI Code Number : COMGK00ARC  
Daughterboard revision number : A0  
Hardware Board Revision Number : 0x01

Switch Ports Model	SW Version	SW Image
* 1 50 WS-C2960S-48TS-S	12.2(55)SE2	C2960S-UNIVERSALK9-M

Configuration register is 0xF

Switch#

#### 配置步骤

H3C S5500与思科2960分别使用交换机的1口和2口进行互联。

#### 配置关键点

H3C S5500链路聚合配置如下:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]int Bridge-Aggregation 1
[H3C-Bridge-Aggregation1]port link-type trunk
[H3C-Bridge-Aggregation1]port trunk permit vlan all
[H3C-Bridge-Aggregation1]quit
[H3C]int range GigabitEthernet 1/0/1 to GigabitEthernet 1/0/2
[H3C-if-range]port link-type trunk
[H3C-if-range]port trunk permit vlan all
[H3C-if-range]port link-aggregation group 1
[H3C-if-range]quit
```

思科2960链路聚合配置如下:

```
Switch(config)#interface port-channel 1
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan all
Switch(config-if)#exit
Switch(config)#int range gigabitEthernet 0/1-2
Switch(config-if-range)#switchport mode trunk
Switch(config-if-range)#switchport trunk allowed vlan all
Switch(config-if-range)#channel-group 1 mode on
Switch(config-if-range)#exit
```

查看思科2960的链路聚合状态:

Switch#show interfaces port-channel 1 status

```
Port Name      Status  Vlan  Duplex Speed Type
Po1           connected trunk  a-full a-1000
Switch#
```

Switch#show interfaces port-channel 1 etherchannel

```
Age of the Port-channel = 0d:00h:04m:19s
Logical slot/port = 5/1      Number of ports = 2
GC = 0x00000000      HotStandBy port = null
Port state = Port-channel Ag-Inuse
Protocol = -
Port security = Disabled
```

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	00	Gi0/1	On	0
0	00	Gi0/2	On	0

Time since last port bundled: 0d:00h:01m:59s Gi0/2

查看S5500链路聚合状态:

```
<H3C>dis link-aggregation verbose
Loadsharing Type: Shar -- Loadsharing, NonS -- Non-Loadsharing
Port Status: S -- Selected, U -- Unselected
Flags: A -- LACP_Activity, B -- LACP_Timeout, C -- Aggregation,
       D -- Synchronization, E -- Collecting, F -- Distributing,
       G -- Defaulted, H -- Expired
```

Aggregation Interface: Bridge-Aggregation1

Aggregation Mode: Static

Loadsharing Type: Shar

Port	Status	Priority	Oper-Key
GE1/0/1	S	32768	1
GE1/0/2	S	32768	1

<H3C>

至此，S5500与思科2960对接二层链路聚合典型组网配置案例已完成！