

组网及说明

组网说明:

本案例采用H3C S5500与思科3750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3750的版本信息如下:

```
Switch#sh version
```

Cisco IOS Software, C3750 Software (C3750-IPSERVICES-M), Version 12.2(35)SE5, RELEASE SOFTWARE (fc1)

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Compiled Thu 19-Jul-07 19:15 by nachen

Image text-base: 0x00003000, data-base: 0x01280000

ROM: Bootstrap program is C3750 boot loader

BOOTLDR: C3750 Boot Loader (C3750-HBOOT-M) Version 12.2(25r)SEE4, RELEASE SOFTWARE (fc1)

Switch uptime is 21 minutes

System returned to ROM by power-on

System image file is "flash:c3750-ipservices-mz.122-35.SE5/c3750-ipservices-mz.122-35.SE5.bin"

cisco WS-C3750G-48TS (PowerPC405) processor (revision H0) with 118784K/12280K bytes of memory.

Processor board ID FOC1446Y09V

Last reset from power-on

1 Virtual Ethernet interface

52 Gigabit Ethernet interfaces

The password-recovery mechanism is enabled.

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

Base ethernet MAC Address : F0:25:72:81:F3:00

Motherboard assembly number : 73-10218-10

Power supply part number : 341-0107-01

Motherboard serial number : FOC14453BA2

Power supply serial number : AZS143207R7

Model revision number : H0

Motherboard revision number : A0

Model number : WS-C3750G-48TS-E

System serial number : FOC1446Y09V

Top Assembly Part Number : 800-27483-05

Top Assembly Revision Number : D0

Version ID : V07
CLEI Code Number : CMMAN00ARA
Hardware Board Revision Number : 0x09

Switch	Ports	Model	SW Version	SW Image
* 1	52	WS-C3750G-48TS	12.2(35)SE5	C3750-IPSERVICES-M

Configuration register is 0xF

Switch#

配置步骤

H3C S5500与思科3750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3750链路聚合配置如下:

```
Switch(config)#interface port-channel 1
Switch(config-if)#switchport trunk encapsulation dot1q
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan all
Switch(config-if)#exit
Switch(config)#int range gigabitEthernet 1/0/1-2
Switch(config-if-range)#switchport trunk encapsulation dot1q
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3750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#show interfaces port-channel 1 etherchannel
```

```
Age of the Port-channel = 0d:00h:05m:45s
Logical slot/port = 10/1      Number of ports = 2
GC = 0x00000000      HotStandBy port = null
Port state = Port-channel Ag-Inuse
Protocol = -
```

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	00	Gi1/0/1	On	0
0	00	Gi1/0/2	On	0

Time since last port bundled: 0d:00h:02m:33s Gi1/0/1

Switch#

查看S5500的链路聚合状态均为S:

<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
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GE1/0/1	S	32768	1
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GE1/0/2	S	32768	1
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<H3C>

至此，S5500与思科3750对接二层链路聚合典型组网配置案例已完成!