

组网及说明

本案例采用H3C S6800与思科3560对接二层链路聚合典型组网

H3C S6800版本信息如下:

```
H3C Comware Software, Version 7.1.045, Release 2418P05
Copyright (c) 2004-2015 Hangzhou H3C Tech. Co., Ltd. All rights reserved.
H3C S6800-4C uptime is 239 weeks, 4 days, 7 hours, 2 minutes
Last reboot reason : USER reboot
```

```
Boot image: flash:/s6800-cmw710-boot-r2418p05.bin
Boot image version: 7.1.045, Release 2418P05
  Compiled Jun 09 2015 12:06:42
System image: flash:/s6800-cmw710-system-r2418p05.bin
System image version: 7.1.045, Release 2418P05
  Compiled Jun 09 2015 12:06:42
```

思科3560版本信息如下:

```
sh version
Cisco IOS Software, C3560 Software (C3560-IPSERVICES-M), Version 12.2(35)SE5, RELEASE SO
FTWARE (fc1)
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Thu 19-Jul-07 18:15 by nachen
Image text-base: 0x00003000, data-base: 0x01300000
```

```
ROM: Bootstrap program is C3560 boot loader
BOOTLDR: C3560 Boot Loader (C3560-HBOOT-M) Version 12.2(25r)SEE4, RELEASE SOFTWARE
(fc1)
```

```
JMTJ-K-1 uptime is 2 years, 18 weeks, 9 hours, 23 minutes
System returned to ROM by power-on
System restarted at 01:44:59 UTC Fri Jan 19 2018
System image file is "flash:c3560-ipservices-mz.122-35.SE5/c3560-ipservices-mz.122-35.SE5.bin"
```

```
cisco WS-C3560G-48TS (PowerPC405) processor (revision F0) with 122880K/8184K bytes of memo
ry.
Processor board ID FOC1442Z4EH
Last reset from power-on
3 Virtual Ethernet interfaces
52 Gigabit Ethernet interfaces
The password-recovery mechanism is enabled.
```

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

```
Base ethernet MAC Address      : EC:C8:82:39:BD:80
Motherboard assembly number    : 73-10214-06
Power supply part number       : 341-0107-01
Motherboard serial number      : FOC1442737L
Power supply serial number     : AZS143501Q2
Model revision number          : F0
Motherboard revision number    : A0
Model number                   : WS-C3560G-48TS-E
System serial number           : FOC1442Z4EH
Top Assembly Part Number       : 800-27479-03
Top Assembly Revision Number   : A0
Version ID                     : V05
CLEI Code Number               : COMBG10BRA
Hardware Board Revision Number : 0x09
```

Switch	Ports	Model	SW Version	SW Image
* 1	52	WS-C3560G-48TS	12.2(35)SE5	C3560-IPSERVICES-M

Configuration register is 0xF

配置步骤

S6800的XGE1/2/15、XGE2/2/15端口分别与思科3560的G0/49、G0/50端口互联

配置关键点

S6800二层链路聚合配置如下：

```
interface Bridge-Aggregation8
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 2 to 4094
quit
```

```
interface Ten-GigabitEthernet1/2/15
port link-mode bridge
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 2 to 4094
stp root-protection
port link-aggregation group 8
quit
```

```
interface Ten-GigabitEthernet2/2/15
port link-mode bridge
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 2 to 4094
stp root-protection
port link-aggregation group 8
quit
```

思科3560二层链路聚合配置如下：

```
interface Port-channel1
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 4,5,12,400
switchport mode trunk
exit
```

```
interface GigabitEthernet0/49
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 4,5,12,400
switchport mode trunk
channel-group 1 mode on
exit
```

```
interface GigabitEthernet0/50
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 4,5,12,400
switchport mode trunk
channel-group 1 mode on
exit
```

查看S6800链路聚合的状态均为S：

```
dis link-aggregation verbose Bridge-Aggregation 8
Loadsharing Type: Shar -- Loadsharing, NonS -- Non-Loadsharing
Port Status: S -- Selected, U -- Unselected, I -- Individual
```

Flags: A -- LACP_Activity, B -- LACP_Timeout, C -- Aggregation,
D -- Synchronization, E -- Collecting, F -- Distributing,
G -- Defaulted, H -- Expired

Aggregate Interface: Bridge-Aggregation8

Aggregation Mode: Static

Loadsharing Type: Shar

Port	Status	Priority	Oper-Key
XGE1/2/15	S	32768	1
XGE2/2/15	S	32768	1

查看思科3560的链路聚合状态:

show interfaces port-channel 1 status

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

show interfaces port-channel 1 etherchannel

Age of the Port-channel = 856d:09h:25m:19s

Logical slot/port = 2/1 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	Gi0/49	On	0
0	00	Gi0/50	On	0

Time since last port bundled: 65d:10h:20m:21s Gi0/50

Time since last port Un-bundled: 65d:10h:32m:05s Gi0/50

至此, S6800与思科3560对接二层链路聚合典型组网配置案例已完成!