

组网及说明

本案例采用H3C S5820与思科2960对接二层链路聚合典型组网

H3C S5820版本信息如下:

```
H3C Comware Software, Version 7.1.045, Release 2418P06
Copyright (c) 2004-2015 Hangzhou H3C Tech. Co., Ltd. All rights reserved.
H3C S5820V2-48S uptime is 240 weeks, 3 days, 2 hours, 10 minutes
Last reboot reason : USER reboot
```

思科2960版本信息如下:

```
do sh ve
Cisco IOS Software, C2960S Software (C2960S-UNIVERSALK9-M), Version 12.2(55)SE2, RELEAS
E SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2011 by Cisco Systems, Inc.
Compiled Tue 11-Jan-11 02:23 by prod_rel_team
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)
```

```
SCW-T-1 uptime is 1 year, 30 weeks, 4 days, 18 hours, 16 minutes
System returned to ROM by power-on
System restarted at 18:29:43 UTC Mon Oct 22 2018
System image file is "flash:/c2960s-universalk9-mz.122-55.SE2/c2960s-universalk9-mz.122-55.SE2.
bin"
```

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

```
cisco WS-C2960S-48TS-S (PowerPC) processor (revision D0) with 131072K bytes of memory.
Processor board ID FOC1517Y1E2
Last reset from power-on
3 Virtual Ethernet interfaces
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:C3:80
Motherboard assembly number    : 73-12424-06
Power supply part number       : 341-0327-03
Motherboard serial number      : FOC15151KUK
Power supply serial number     : LIT144432FT
```

Model revision number : D0
Motherboard revision number : A0
Model number : WS-C2960S-48TS-S
Daughterboard assembly number : 73-11933-04
Daughterboard serial number : FOC1516245W
System serial number : FOC1517Y1E2
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

配置步骤

S5820的XGE1/0/41、XGE2/0/41分别与思科2960的G0/49、G0/50互联

配置关键点

S5820二层链路聚合配置如下:

```
interface Bridge-Aggregation41
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 2 to 4094
quit
```

```
interface Ten-GigabitEthernet1/0/41
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 41
quit
```

```
interface Ten-GigabitEthernet2/0/41
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 41
quit
```

思科2960二层链路聚合配置如下:

```
interface Port-channel1
switchport trunk allowed vlan 2,3,12,400
switchport mode trunk
exit
```

```
interface GigabitEthernet0/49
switchport trunk allowed vlan 2,3,12,400
switchport mode trunk
channel-group 1 mode on
exit
```

```
interface GigabitEthernet0/50
switchport trunk allowed vlan 2,3,12,400
switchport mode trunk
channel-group 1 mode on
exit
```

查看S5820的链路聚合状态:

```
dis link-aggregation verbose Bridge-Aggregation 41
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-Aggregation41

Aggregation Mode: Static

Loadsharing Type: Shar

Port	Status	Priority	Oper-Key
XGE1/0/41	S	32768	10
XGE2/0/41	S	32768	10

查看思科2960链路聚合的状态:

```
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 status
```

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

```
SCW-T-1#show interfaces port-channel 1 e
```

```
SCW-T-1#show interfaces port-channel 1 etherchannel
```

```
Age of the Port-channel = 579d:18h:20m:02s
```

```
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	Gi0/49	On	0
0	00	Gi0/50	On	0

```
Time since last port bundled: 60d:11h:41m:49s Gi0/49
```

```
Time since last port Un-bundled: 60d:12h:13m:13s Gi0/49
```

至此，S5820与思科2960对接二层链路聚合典型组网配置案例已完成!