

组网及说明

本案例采用H3C S6800与思科2960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

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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2960版本信息如下:

Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 12.2(50)SE5, RELEASE SOFTWARE (fc1)

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

Copyright (c) 1986-2010 by Cisco Systems, Inc.

Compiled Tue 28-Sep-10 13:44 by prod_rel_team

Image text-base: 0x00003000, data-base: 0x01400000

ROM: Bootstrap program is C2960 boot loader

BOOTLDR: C2960 Boot Loader (C2960-HBOOT-M) Version 12.2(44)SE5, RELEASE SOFTWARE (fc1)

anquanpingtai-ha-v4-1 uptime is 2 years, 44 weeks, 1 day, 11 hours, 18 minutes

System returned to ROM by power-on

System restarted at 23:37:34 UTC Wed Jul 19 2017

System image file is "flash:c2960-lanbasek9-mz.122-50.SE5/c2960-lanbasek9-mz.122-50.SE5.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.

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cisco WS-C2960G-48TC-L (PowerPC405) processor (revision H0) with 65536K bytes of memory.

Processor board ID FOC1520W692

Last reset from power-on

6 Virtual Ethernet interfaces

48 Gigabit Ethernet interfaces

The password-recovery mechanism is enabled.

64K bytes of flash-simulated non-volatile configuration memory.

Base ethernet MAC Address : 20:37:06:04:0C:00

Motherboard assembly number : 73-10300-12
Power supply part number : 341-0098-02
Motherboard serial number : FOC15200C86
Power supply serial number : DCA151090Q4
Model revision number : H0
Motherboard revision number : A0
Model number : WS-C2960G-48TC-L
System serial number : FOC1520W692
Top Assembly Part Number : 800-27071-06
Top Assembly Revision Number : D0
Version ID : V06
CLEI Code Number : COMB800BRA
Hardware Board Revision Number : 0x01

Switch Ports Model	SW Version	SW Image
* 1 48 WS-C2960G-48TC-L	12.2(50)SE5	C2960-LANBASEK9-M

Configuration register is 0xF

配置步骤

S6800的XGE1/1/7、XGE2/1/7端口分别与思科2960的G0/47、G0/48端口互联

配置关键点

S6800二层链路聚合的配置如下:

```
interface Bridge-Aggregation7
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 2 to 4094
quit
```

```
interface Ten-GigabitEthernet1/1/7
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 7
quit
```

```
interface Ten-GigabitEthernet2/1/7
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 7
quit
```

思科2960二层链路聚合配置如下:

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

```
interface GigabitEthernet0/47
switchport trunk allowed vlan 4,5,12,400
switchport mode trunk
channel-group 1 mode on
exit
```

```

interface GigabitEthernet0/48
switchport trunk allowed vlan 4,5,12,400
switchport mode trunk
channel-group 1 mode on
exit

```

查看S6800的链路聚合状态均为S:

```

dis link-aggregation verbose Bridge-Aggregation 7
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-Aggregation7

Aggregation Mode: Static

Loadsharing Type: Shar

Port	Status	Priority	Oper-Key
XGE1/1/7	S	32768	15
XGE2/1/7	S	32768	15

查看思科2960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:03m:05s
Logical slot/port = 2/1      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	Gi0/47	On	0
0	00	Gi0/48	On	0

```
Time since last port bundled: 65d:10h:10m:38s Gi0/47
```

```
Time since last port Un-bundled: 65d:10h:22m:25s Gi0/47
```

至此，S6800与思科2960对接二层链路聚合典型组网配置案例已完成!