

The configuration about dynamic link aggregation on S5130 switchs and Ce ntOS 7

Servers Switches 唐勋 2020-12-18 Published

Network Topology

CentOS version

[tx@localhost ~]\$ cat /proc/version Linux version 3.10.0-1160.6.1.el7.x86_64 (mockbuild@kbuilder.bsys.centos.org) (gcc version 4.8.5 20150623 (Red H at 4.8.5-44) (GCC)) #1 SMP Tue Nov 17 13:59:11 UTC 2020

Switch model and version

```
[swl]dis version
H3C Comware Software, Version 7.1.070, Release 3506P02
Copyright (c) 2004-2019 New H3C Technologies Co., Ltd. All rights reserved.
H3C S5130-28S-PWR-EI uptime is 0 weeks, 0 days, 1 hour, 55 minutes
Last reboot reason : Cold reboot
Boot image: flash:/s5130ei_e-cmw710-boot-r3506p02.bin
Boot image version: 7.1.070, Release 3506P02
Compiled Dec 16 2019 11:00:00
System image: flash:/s5130ei_e-cmw710-system-r3506p02.bin
System image version: 7.1.070, Release 3506P02
Compiled Dec 16 2019 11:00:00
Feature image(s) list:
  flash:/s5130ei_e-cmw710-freeradius-r3506p02.bin, version: 7.1.070
  Compiled Dec 16 2019 11:00:00
Slot 1:
Uptime is 0 weeks,0 days,1 hour,55 minutes
S5130-28S-PWR-EI with 1 Processor
BOARD TYPE: S5130-28S-PWR-EI
DRAM: 1024M bytes
S12M bytes
 FLASH:
PCB 1 Version:
Bootrom Version:
CPLD 1 Version:
Release Version:
                                                 512M bytes
VER.B
147
002
                                                      H3C S5130-28S-PWR-EI-3506P02
 Patch Version :
Reboot Cause :
                                                        ColdReboot
  Reboot Cause : ColdRe
[SubSlot 0] 24GE+4SFP Plus
 Uptime is 0 weeks,0 days,1 hour,55 minutes

$5130-28S-PWR-EI with 1 Processor

BOARD TYPE: $5130-28S-PWR-EI

DRAM: 1024M bytes

FLASH: $12M bytes
  PCB 1 Version:
 Bootrom Version:
CPLD 1 Version:
                                                        147
                                                        002
 Release Version:
Patch Version :
Reboot Cause :
                                                        H3C S5130-28S-PWR-EI-3506P02
  [SubSlot 0] 24GE+4SFP Plus
```

1.In this case,I congfigure irf between the two switches.(You can refer to the configuration guide on of ficial website or you can skip this if you have only one switches).

2.congfigure link-aggregation.

[sw1]int bridge-aggregation 1

[sw1-bridge-aggregation1]link-aggregation mode dynamic

[sw1]int ten 1/0/25

[sw1-ten-gigabitethernet1/0/25]port link-a group 1

[sw1]int ten 2/0/25

[sw1-ten-gigabitethernet2/0/25]port link-a group 1

3.configure team in CentOS

3.1 check current device in the CentOS

```
[root@localhost tx]# nmcli connection show
       UUID
                                                   TYPE
NAME
                                                             DEVICE
ens1f0 61377788-8bb3-4ef1-84d4-cf578ce6b2b6 ethernet ens1f0
ens1f1 29ec96d4-elc1-4013-a651-8480acdb2987 ethernet ens1f1
virbr0 a3683f0e-8032-458f-a63c-le8370085169 bridge virbr0
enp61s0f0 f8d73fc4-2ee1-46ab-9014-3ab94fc2df1b ethernet --
enp61s0f1 7c240fa7-39d5-48c8-b55d-1a61cef72384 ethernet --
enp61s0f2 bdf62665-5ef0-4279-a261-408bfe19ba6e ethernet --
enp61s0f3 a22fd6aa-d488-4fb4-804f-9b874ec12651 ethernet --
```

3.2.create team0

[root@localhost tx]nmcli connection add type team con-name team0 ifname team0 config "{"runner":{" name":"lacp"}}"

3.3 configure ip and gateway for team0

```
[root@localhost Ltx]# nmcli connection modify team0 ipv4.addresses "192.168.128.1 23/24"
[root@localhost tx]# nmcli connection modify team0 ipv4.gateway "192.168.128.1"
[root@localhost tx]# nmcli connection modify team0 ipv4.method manual

3.4 add interface to team0

[root@localhost tx]# nmcli connection add type team-slave ifname enslf0 con-name team0-0 master team0

Connection 'team0-0' (43b3da10-6f55-41d1-b2b6-6979948b2141) successfully added.
[root@localhost tx]# nmcli connection add type team-slave ifname enslf1 con-name team0-1 master team0

Connection 'team0-1' (d68b249f-88da-46fc-8710-acc5ce313658) successfully added.
```

Key Configuration

1.check team0 configuration file

```
TEAM_CONFIG="{\"runner\": {\"name\": \"lacp\", \"tx_hash\": [\"eth\", \"ipv4\",
\"ipv6\"|}}'
PROXY METHOD=none
BROWSER ONLY=no
B00TPR0T0=none
DEFROUTE=yes
IPV4 FAILURE FATAL=no
I V6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
IPV6_ADDR_GEN_MODE=stable-privacy
NAME=team0
UUID=0959cdf4-6419-4f80-8bc1-3a99cf04c52b
DEVICE=team0
ONBOOT=yes
DEVICETYPE=Team
IPADDR=192.168.128.123
PREFIX=24
GATEWAY=192.168.128.1
```

2.check active device

```
[root@localhost network-scripts]# nmcli con sho
NAME
          UUID
                                                TYPE
                                                         DEVICE
team0
          0959cdf4-6419-4f80-8bc1-3a99cf04c52b
                                               team
                                                         team0
          a3683f0e-8032-458f-a63c-le8370085169 bridge
virbr0
                                                         virbr0
team0-0
          5294e6cb-34de-4772-a47d-9f6a8f7e5a3c
                                               ethernet ens1f0
team0-1
          889af404-e928-43cb-a214-c39c1331689d
                                               ethernet ens1f1
enp61s0f0 f8d73fc4-2ee1-46ab-9014-3ab94fc2df1b
                                               ethernet
enp61s0f1 7c240fa7-39d5-48c8-b55d-1a61cef72384 ethernet --
enp61s0f2 bdf62665-5ef0-4279-a261-408bfe19ba6e ethernet --
enp61s0f3 a22fd6aa-d488-4fb4-804f-9b874ec12651
                                               ethernet --
ens1f0
          61377788-8bb3-4ef1-84d4-cf578ce6b2b6
                                               ethernet
```

3.check port status on switch.All ports are selected to the bridge-aggreation.