2 常见堆叠操作

关于本章

介绍堆叠的常见操作。

2.1 配置堆叠口

配置堆叠口就是在使用业务口组建堆叠时将业务口配置为堆叠成员口。

例如：将业务口XGE0/0/1配置为堆叠成员口。

V200R002之后的版本

```
<HUAWEI> system-view
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] port interface xgigabitethernet 0/0/1 enable   //将接口XGE0/0/1接口加入堆叠
口，使业务口变为堆叠成员口，一次可以加入多个
Warning: Enabling stack function may cause configuration loss on the interface. Continue? [Y/N]:y
Info: This operation may take a few seconds. Please wait.......
```

V200R002及之前的版本

```
<HUAWEI> system-view
[HUAWEI] stack port interface xgigabitethernet 0/0/1 enable   //配置接口XGE0/0/1为堆叠口
Warning: This operation will clear all configurations on these interfaces, continue? [Y/
N]:y
Info: This operation may take a few seconds. Please wait for a moment...
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] port member-group interface xgigabitethernet 0/0/1   //将接口XGE0/0/1加入堆叠
口
```

📖 说明

- 交换机一共支持两个堆叠口，分别是Stack-Port*n*/1和Stack-Port*n*/2，*n*表示交换机的堆叠ID。
- 业务口配置为堆叠成员口后，仅支持堆叠相关业务功能，其他业务功能不可用。接口下与堆叠不相关的命令会被屏蔽，仅保留**description（接口视图）**等接口基本命令。

2.2 修改堆叠口

将逻辑堆叠口stack-port0/1中的成员端口XGE0/0/1修改为XGE0/0/3。

V200R002之后的版本

```
<HUAWEI> system-view
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] shutdown interface xgigabitethernet0/0/1   //为避免环路，先将成员口设置为down
[HUAWEI-stack-port0/1] undo port interface xgigabitethernet0/0/1 enable   //将原来成员端口XGE0/0/1
退出堆叠口，恢复为业务口
[HUAWEI-stack-port0/1] port interface xgigabitethernet0/0/3 enable   //将接口XGE0/0/3设置为堆叠口
```

V200R002及之前的版本

```
<HUAWEI> system-view
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] undo port member-group interface xgigabitethernet 0/0/1   //将原来的堆叠口删
除
[HUAWEI-stack-port0/1] quit
[HUAWEI] undo stack port interface xgigabitethernet 0/0/1 enable   //将接口恢复为业务口
[HUAWEI] stack port interface xgigabitethernet 0/0/3 enable   //将接口XGE0/0/3使能为堆叠口
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] port member-group interface xgigabitethernet 0/0/3   //将接口加入堆叠口
```

2.3 删除堆叠口

删除堆叠口就是将业务口从堆叠口中退出，恢复为正常的业务口。

例如：将堆叠成员口XGE0/0/1从堆叠口中删除。

V200R002之后的版本
```
<HUAWEI> system-view
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] shutdown interface xgigabitethernet0/0/1   //为避免环路，先将成员口设置为down
[HUAWEI-stack-port0/1] undo port interface xgigabitethernet0/0/1 enable   //将成员端口XGE0/0/1退出
堆叠口，恢复为业务口
```

V200R002及之前的版本
```
<HUAWEI> system-view
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] undo port member-group interface xgigabitethernet 0/0/1   //将接口XGE0/0/1从
堆叠口中退出
[HUAWEI-stack-port0/1] quit
[HUAWEI] undo stack port interface xgigabitethernet 0/0/1 enable   //将接口XGE0/0/1恢复为业务口
```

2.4 查看堆叠配置

📖 说明

如果设备不支持堆叠功能，则下面命令将无法执行。

堆叠的配置不会记录在配置文件中，所以无法通过**display current-configuration**查看配置。

执行命令**display stack**可以查看堆叠系统的信息。

```
<HUAWEI> display stack
Stack mode: Service-port
Stack topology type: Link
Stack system MAC: 0000-1382-4569
MAC switch delay time: 10 min
Stack reserved VLAN: 4093
Slot of the active management port: 0
Slot    Role        MAC address      Priority  Device type
--------------------------------------------------------------
  0    Master       0018-82b1-6eb4   200
  1    Standby      0018-82b1-6eba   150
```

执行命令**display stack configuration**或**display stack current-configuration**可以查看堆叠的相关配置，以V200R012C00版本为例。

```
<HUAWEI> display stack configuration
*    : Invalid-
configuration

#    : Unsaved
configuration

--------------Configuration on slot 1
Begin---------------

stack
enable

stack slot 0 renumber
2

stack slot 2 priority
150

stack reserved-vlan
4093

stack timer mac-address switch-delay
10


interface stack-port
1/1

 *port interface XGigabitEthernet1/0/1 enable


interface stack-port
1/2

 #port interface XGigabitEthernet1/0/4
enable
--------------Configuration on slot 1 End----------------
```

● 如果堆叠成员端口带有*号，表示当前配置不生效，不生效的可能原因为：
  - 当前配置为没有生效的配置。
  - 堆叠成员端口为子卡上的接口，当前子卡不在位。
● 如果堆叠成员端口带有#号，表示当前配置是专用堆叠线缆自动生成但未执行**save stack configuration**或**save**命令把配置写入Flash。

执行命令**display stack port**可以查看堆叠口的配置，以V200R012C00业务口堆叠为例。

```
<HUAWEI> display stack port
*down : administratively
down

(r)   : Runts trigger error
```

```
down

(c)    : CRC trigger error
down

(l)    : Link-flapping trigger error
down
(m)    : Media mismatch trigger error
down
Logic Port          Phy Port                    Online
Status
---------------------------------------------------------------------

stack-port0/1       XGigabitEthernet0/0/1          present      down
```

2.5 使能和去使能堆叠

对于**S5700EI和S5700SI**设备，可以在系统视图下执行命令**stack enable**和**undo stack enable**使能和去使能堆叠。使能和去使能堆叠都需要重启设备才生效。

```
<HUAWEI> system-view
[HUAWEI] stack enable    //使能堆叠
Warning: All the configurations related to the slot ID will be lost after the stack function is
enabled. Continue?[Y/N]: y
Info: Stack configuration has been changed, and the device needs to restart to make the
configuration effective.
<HUAWEI> system-view
[HUAWEI] undo stack enable    //去使能堆叠
Warning: All the configurations related to the slot ID will be lost after the stack function is
enabled. Continue?[Y/N]: y
Info: Stack configuration has been changed, and the device needs to restart to make the
configuration effective.
```

对于除**S5700EI和S5700SI**之外支持堆叠的设备，堆叠功能默认使能，无法通过命令去使能。

可以通过删除堆叠口或拔掉堆叠线缆的方式取消堆叠。删除堆叠口的方法如下：

V200R002之后的版本

```
<HUAWEI> system-view
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] shutdown interface xgigabitethernet0/0/1    //为避免环路，先将成员口设置为down
[HUAWEI-stack-port0/1] undo port interface xgigabitethernet0/0/1 enable    //将成员端口XGE0/0/1退出
堆叠口，恢复为业务口
```

V200R002及之前的版本

```
<HUAWEI> system-view
[HUAWEI] interface stack-port 0/1
[HUAWEI-stack-port0/1] undo port member-group interface xgigabitethernet 0/0/1    //将接口XGE0/0/1从
堆叠口中退出
[HUAWEI-stack-port0/1] quit
[HUAWEI] undo stack port interface xgigabitethernet 0/0/1 enable    //将接口XGE0/0/1恢复为业务口
```

2.6 清除堆叠配置

对于**V200R011C10及之后版本的设备**，执行命令**reset stack configuration**可以清除堆叠相关配置。包括：交换机槽位号、堆叠优先级、堆叠保留VLAN、系统MAC切换时间、堆叠口配置、堆叠口速率配置。

```
<HUAWEI> system-view
[HUAWEI] reset stack configuration
Warning: This operation will clear all stack configurations and may lead to the loss of the slot
ID configuration and cause the device to reset immediately. Are you sure you want to continue? [Y/
N]: y
```

📖 说明

执行该命令后会导致原有堆叠系统分裂，设备重启。

不支持该命令。

对于V200R011C10之前版本的设备及，需要根据配置分别删除，配置删除后需要重启设备才生效。

- 恢复堆叠优先级：
  ```
  <HUAWEI> system-view
  [HUAWEI] stack slot 2 priority 100   //将2槽位号的优先级恢复为缺省值100
  ```

- 恢复槽位号：
  ```
  <HUAWEI> system-view
  [HUAWEI] stack slot 2 renumber 0   //将设备槽位号修改为0
  ```

- 恢复堆叠保留VLAN：
  ```
  <HUAWEI> system-view
  [HUAWEI] stack reserved-vlan 4093   //将堆叠保留VLAN恢复到缺省值4093
  ```

- 恢复系统MAC切换时间：
  ```
  <HUAWEI> system-view
  [HUAWEI] undo stack timer mac-address switch-delay
  ```

- 删除堆叠口

  V200R002之后的版本
  ```
  <HUAWEI> system-view
  [HUAWEI] interface stack-port 0/1
  [HUAWEI-stack-port0/1] shutdown interface xgigabitethernet0/0/1   //为避免环路，先将成员口设置为down
  [HUAWEI-stack-port0/1] undo port interface xgigabitethernet0/0/1 enable   //将成员端口XGE0/0/1退出堆叠口，恢复为业务口
  ```

  V200R002及之前的版本
  ```
  <HUAWEI> system-view
  [HUAWEI] interface stack-port 0/1
  [HUAWEI-stack-port0/1] undo port member-group interface xgigabitethernet 0/0/1   //将接口XGE0/0/1从堆叠口中退出
  [HUAWEI-stack-port0/1] quit
  [HUAWEI] undo stack port interface xgigabitethernet 0/0/1 enable   //将接口XGE0/0/1恢复为业务口
  ```