

知 S5800-32F根据官网资料配置6TO4隧道后Tunnel接口不UP问题处理经验

IPv4 [zhiliao_5ilsv](#) 2019-10-30 发表

问题现象:

根据官网配置案例配置6TO4隧道发现Tunnel接口是Down的, 在查询Tunnel接口时发现接口报错: "service-loopback-group ID not set".

```
[SW1-102]dis inter Tunnel 0
Tunnel0 current state: DOWN
Line protocol current state: DOWN
Description: Tunnel0 Interface
The Maximum Transmit Unit is 64000
Internet protocol processing : disabled
Encapsulation is TUNNEL, service-loopback-group ID not set.
Tunnel source 100.1.1.1 (GigabitEthernet1/0/24), destination 100.1.1.2
Tunnel bandwidth 64 (kbps)
Tunnel protocol/transport IPv6/IP
Last clearing of counters: Never
Last 300 seconds input: 0 bytes/sec, 0 packets/sec
Last 300 seconds output: 0 bytes/sec, 0 packets/sec
  0 packets input, 0 bytes
  0 input error
  0 packets output, 0 bytes
  0 output error
```

过程分析:

查看官网案例发现案例中虽然配置了业务环回组, 但是**没有在Tunnel接口调用**, 导致Tunnel接口与业务环回组无法关联。

```
!
# 创建业务环回组1, 并配置服务类型为tunnel。
[SwitchA] service-loopback group 1 type tunnel
# 将接口GigabitEthernet1/0/3加入业务环回组1。
[SwitchA] interface GigabitEthernet 1/0/3
[SwitchA-GigabitEthernet1/0/3] port service-loopback group 1
[SwitchA-GigabitEthernet1/0/3] quit
# 创建模式为IPv6 over IPv4手动隧道的接口Tunnel0。
[SwitchA] interface tunnel 0 mode ipv6-ipv4
# 配置Tunnel0接口的IPv6地址。
[SwitchA-Tunnel0] ipv6 address 3001::1/64
# 配置Tunnel0接口的源接口为Vlan-interface100。
[SwitchA-Tunnel0] source vlan-interface 100
# 配置Tunnel0接口的目的端地址 ( Switch B的Vlan-interface100的IP地址 )。
[SwitchA-Tunnel0] destination 192.168.50.1
[SwitchA-Tunnel0] quit
# 配置从Switch A经过Tunnel0接口到IPv6 network 2的静态路由。
[SwitchA] ipv6 route-static 3003:: 64 tunnel 0
```

解决方法:

在Tunnel接口调用业务环回组

```
[SwitchA-Tunnel0] service-loopback-group 1
```