



某局点 S5560 S-EI ipv6 直连 ping 不通问题

IPv6

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2022-06-13 发表

组网及说明

设备直连

告警信息

暂无

问题描述

设备直连，在vlan 虚接口上配置 ipv6地址，直连ping 不通，带源ping 显示 invalid source IPV6 addresses

过程分析

一般带源ping, 有 invalid source IPV6 address , 说明本端配置的 ipv6地址未生效, 在设备上查看全球单播地址 为 TENTATIVE状态, 一般是地址冲突导致

```
<H3C>dis ipv6 interface Vlan-interface 140
```

```
Vlan-interface140 current state: UP Line protocol current state: UP
```

```
IPv6 is enabled, link-local address is FE80::72C6:DDFF:FE81:C253 [DUPLICATE]
```

```
Global unicast address(es): 240A:4021:900:8AF1:2FF::29, subnet is 240A:4021:900:8AF1:2FF::/80 [TENTATIVE]
```

```
Joined group address(es): FF02::1 FF02::2 FF02::1:FF00:29 FF02::1:FF81:C253
```

```
MTU is 1500 bytes
```

```
ND DAD is enabled, number of DAD attempts: 1 ND reachable time is 1200000 milliseconds ND retransmit interval is 1000 milliseconds Hosts use stateless autoconfig for addresses
```

在设备上开启debug 观察, 设备收到了自己发出去的NS报文:

```
*Jan 15 23:31:54:894 2013 H3C ND/7/ND_PACKET:
```

Sent NS packet:

```
Interface: Vlan140      First VLAN ID: 0  Second VLAN ID: 0
```

```
SrcEthMAC: 0000-0000-0000  SrcIP: ::
```

```
DstEthMAC: 0000-0000-0000  DstIP: ff02::1:ff81:c25a
```

```
LinkId: 0xffff  VsiIndex: 0xffffffff
```

```
*Jan 15 23:31:54:895 2013 H3C ND/7/ND_PACKET:
```

Received NS packet: //我们收到了自己发出去的报文, 说明组网内有环, 这就是为啥我们不管配置啥地址都冲突原因

```
Interface: Vlan140      First VLAN ID: 140  Second VLAN ID: 0
```

```
SrcEthMAC: 70c6-dd81-c25a  SrcIP: :: //查看这个源mac发现是本地接口mac地址
```

```
DstEthMAC: 3333-ff81-c25a  DstIP: ff02::1:ff81:c25a //这个mac是发出去的时候带的组播mac
```

```
LinkId: 0xffff  VsiIndex: 0xffffffff
```

解决方法

排查组网环路

