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V7系列交换机有状态IPv6跨网段互通配置案例

目录

1 配置需求或说明

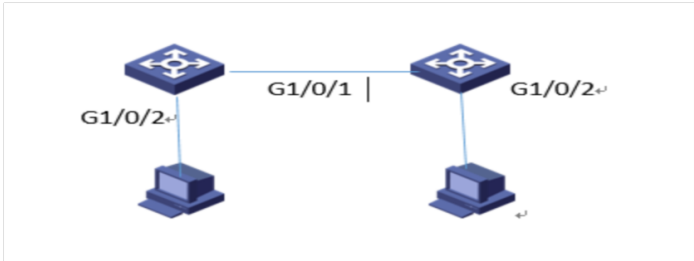
1.1 适用产品系列

本案例适用于如S5130-28F-WiNet、S5500V2-24P-WiNet、S5500V2-48P-WiNet等的V7交换机，需要交换机支持DHCPv6 Server功能，V5、V7交换机具体分类及型号可以参考“1.1 Comware V5、V7平台交换机分类说明”。

1.2 配置需求及实现的效果

交换机作为企业网络内部的网关设备，要实现两个不同网段的终端无状态IPv6上网，并可以互相访问。此案例中，局域网1的内网地址为2001::2/64，网关为2001::1/64，局域网2的内网地址为4001::2/64，网关为4001::1/64，内网PC使用链路本地地址上网。

2 组网图



3 配置步骤

3.1 配置SW1

手工指定VLAN接口1的全球单播地址并允许其发布RA消

息，关联地址池

```
<H3C>system-view
[H3C]interface Vlan-interface1
[H3C-Vlan-interface1]     ipv6     address
2001::1/64
[H3C-Vlan-interface1] undo ipv6 nd ra halt
[H3C-Vlan-interface1]  ipv6  dhcp  server
apply pool 1 allow-hint rapid-commit
[H3C-Vlan-interface1]  ipv6  nd  autoconfig
managed-address-flag
[H3C-Vlan-interface1]  ipv6  nd  autoconfig
other-flag
[H3C-Vlan-interface1] quit
```

手工指定VLAN接口2的全球单播地址并允许其发布RA消息

```
[H3C]interface Vlan-interface2
[H3C-Vlan-interface1]     ipv6     address
3001::1/64
[H3C-Vlan-interface1] undo ipv6 nd ra halt
```

配置DHCPV6地址池

```
[H3C]Ipv6 dhcp pool 1
```

```
[H3C-dhcp6-pool-1]network  2001::/64

[H3C-dhcp6-pool-1]gateway-list 2001::1

[H3C-dhcp6-pool-1]dns-server 1::1

[H3C-dhcp6-pool-1]quit
```

将接口1和vlan虚接口2关联

```
[H3C]interface GigabitEthernet1/0/1
[H3C-GigabitEthernet1/0/1]port access vlan
2
[H3C-GigabitEthernet1/0/1]quit
```

配置IPv6静态路由，该路由的目的地址为4001::/64，下一跳地址为3001::2。

```
[H3C] ipv6 route-static 4001:: 64 3001::2
```

3.2 配置SW2

手工指定VLAN接口2的全球单播地址并允许其发布RA消息，关联地址池

```
<H3C>system-view

[H3C]interface Vlan-interface2

[H3C-Vlan-interface2]     ipv6     address

3001::2/64

[H3C-Vlan-interface2] undo ipv6 nd ra halt

[H3C-Vlan-interface2]  ipv6  dhcp  server

apply pool 1 allow-hint rapid-commit

[H3C-Vlan-interface2]  ipv6  nd  autoconfig
```

```
managed-address-flag
[H3C-Vlan-interface2] ipv6 nd autoconfig
other-flag
[H3C-Vlan-interface2] quit
```

手工指定VLAN接口3的全球单播地址并允许其发布RA消息

```
[H3C]interface Vlan-interface3
[H3C-Vlan-interface3] ipv6 address
4001::1/64
[H3C-Vlan-interface3] undo ipv6 nd ra halt
```

配置DHCPV6地址池

```
[H3C]Ipv6 dhcp pool 1
[H3C-dhcp6-pool-1]network  4001::/64
[H3C-dhcp6-pool-1]gateway-list 4001::1
[H3C-dhcp6-pool-1]dns-server 1::1
[H3C-dhcp6-pool-1]quit
```

将接口1和vlan虚接口2关联

```
[H3C]interface GigabitEthernet1/0/1
[H3C-GigabitEthernet1/0/1]port access vlan
2
[H3C-GigabitEthernet1/0/1]quit
```

将接口2和vlan虚接口3关联

```
[H3C]interface GigabitEthernet1/0/2
[H3C-GigabitEthernet1/0/2]port access vlan
3
[H3C-GigabitEthernet1/0/2]quit
```

配置IPv6静态路由，该路由的目的地址为2001::/64，下一跳地址为3001::1。

```
[H3C] ipv6 route-static 2001:: 64 3001::1
```

3.3 保存配置

```
[H3C]save force
```

3.4 验证配置

配置完成后，hostA和hostC客户端可以互相访问。