

H3C S3500-EA IPv6基础配置

一、组网需求：

Switch A和Switch B通过以太网端口直接相连，以太网端口属于VLAN2。分别在Switch A和Switch B上给VLAN接口2配置不同类型的IPv6地址，验证它们之间的互通性。其中EUI-64前缀为2001::/64，手工指定Switch A的全球单播网络地址为3001::1/64，Switch B的全球单播网络地址为3001::2/64。

二、组网图：



三、配置步骤：

(1) 设备A上的配置

```
# 使能交换机的IPv6转发功能。  
<SwitchA> system-view  
[SwitchA] ipv6  
# 配置VLAN接口2的自动链路本地地址。  
[SwitchA] interface vlan-interface 2  
[SwitchA-Vlan-interface2] ipv6 address auto link-local  
# 配置VLAN接口2的EUI-64地址。  
[SwitchA-Vlan-interface2] ipv6 address 2001::/64 eui-64  
# 手工指定VLAN接口2的全球单播地址。  
[SwitchA-Vlan-interface2] ipv6 address 3001::1/64  
# 允许VLAN接口2发布RA消息。  
[SwitchA-Vlan-interface2] undo ipv6 nd ra halt
```

(2) 设备B上的配置

```
# 使能交换机的IPv6转发功能。  
<SwitchB> system-view  
[SwitchB] ipv6  
# 配置VLAN接口2的自动链路本地地址。  
[SwitchB] interface vlan-interface 2  
[SwitchB-Vlan-interface2] ipv6 address auto link-local  
# 配置VLAN接口2的EUI-64地址。  
[SwitchB-Vlan-interface2] ipv6 address 2001::/64 eui-64  
# 配置VLAN接口2的全球单播地址。  
[SwitchB-Vlan-interface2] ipv6 address 3001::2/64
```

(3) 验证配置

```
# 显示Switch A的接口信息。  
[SwitchA-Vlan-interface2] display ipv6 interface vlan-interface 2  
Vlan-interface2 current state :UP  
Line protocol current state :UP  
IPv6 is enabled, link-local address is FE80::20F:E2FF:FE49:8048  
Global unicast address(es):  
    2001::20F:E2FF:FE49:8048, subnet is 2001::/64  
    3001::1, subnet is 3001::/64  
Joined group address(es):  
    FF02::1:FF00:1  
    FF02::1:FF49:8048  
    FF02::2  
    FF02::1  
MTU is 1500 bytes  
ND DAD is enabled, number of DAD attempts: 1  
ND reachable time is 30000 milliseconds  
ND retransmit interval is 1000 milliseconds  
Hosts use stateless autoconfig for addresses
```

```
# 显示Switch B的接口信息。
[SwitchB-Vlan-interface2] display ipv6 interface vlan-interface 2
Vlan-interface2 current state :UP
Line protocol current state :UP
IPv6 is enabled, link-local address is FE80::20F:E2FF:FE00:1
Global unicast address(es):
  2001::20F:E2FF:FE00:1, subnet is 2001::/64
  3001::2, subnet is 3001::/64
Joined group address(es):
  FF02::1:FF00:2
  FF02::1:FF00:1
  FF02::2
  FF02::1
MTU is 1500 bytes
ND DAD is enabled, number of DAD attempts: 1
ND reachable time is 30000 milliseconds
ND retransmit interval is 1000 milliseconds
Hosts use stateless autoconfig for addresses
# 从Switch A上分别Ping Switch B的链路本地地址、EUI格式的地址、全球单播地址。
如果配置正确，则三种类型的IPv6地址都可以Ping通。
```

四、配置关键点：

缺省S3500-EA系列交换机的工作在IPv4协议栈模式，此工作模式并不支持IPv6协议栈，如果需要运行IPv6协议栈，必须修改交换机的工作模式为dual-IPv4-IPv6并重启设备才能支持IPv6协议栈，其修改命令为switch-mode dual-ipv4-ipv6。