

知 MSR3600-NAT66配置不生效

NAT 魏敬贤 2024-10-29 发表

问题描述

nat66 场景测试不通，本端和对端v6 地址都是可以ping 通的，display nat66 session verbose 没有会话信息，debugging nat66 packet没有回显信息。

过程分析

无

解决方法

配置注意事项：

1. 映射后的地址不能跟接口地址在同一个网段
2. 需要映射的源地址有以下限制
 - l xxxx: xxxx: xxxx: **xxxx: xxxx: xxxx: xxxx** 第4段（标红部分）不能为全F
 - l 当48<前缀长度<112 bit时，第5/6/7/8段（标绿部分）不能为全F或者全0
3. 不要用本机地址作为源去进行ping测

举例说明：组网A-B-C，B为测试nat66的设备

A:

```
interface LoopBack10
```

```
ipv6 address DF14::FFFE:1:1:1:1A/128    (FFFF改成了FFFE)
```

```
#
```

```
interface Ten-GigabitEthernet3/0/2.30
```

```
vlan-type dot1q vid 30
```

```
ipv6 address 1000::1/64
```

```
#
```

```
ipv6 route-static 240E:699:101::50 128 1000::2
```

B:

```
interface Ten-GigabitEthernet3/0/2.30
```

```
vlan-type dot1q vid 30
```

```
ipv6 address 1000::2/64
```

```
#
```

```
interface Ten-GigabitEthernet3/0/0.30
```

```
nat66 prefix source DF14::FFFE:1:1:1:1A 128 3001::1  
128
```

```
vlan-type dot1q vid 30
```

```
ipv6 address 240E:699:101::10/64
```

```
#
```

```
ipv6 route-static DF14::FFFE:1:1:1:1A 128 1000::1
```

C:

```
interface Ten-GigabitEthernet0/0/0.30
```

```
vlan-type dot1q vid 30
```

```
ipv6 address 240E:699:101::50/64
```

```
#
```

```
ipv6 route-static 3001::1 128 240E:699:101::10
```

在A上ping测试

```
[MSR56-2]ping ipv6 -a DF14::FFFE:1:1:1A 240E:699:101::50
Ping6(56 data bytes) DF14::FFFE:1:1:1A --> 240E:699:101::50, press CTRL_C to break
56 bytes from 240E:699:101::50, icmp_seq=0 hlim=63 time=2.482 ms
56 bytes from 240E:699:101::50, icmp_seq=1 hlim=63 time=2.436 ms
56 bytes from 240E:699:101::50, icmp_seq=2 hlim=63 time=1.444 ms
56 bytes from 240E:699:101::50, icmp_seq=3 hlim=63 time=1.598 ms
56 bytes from 240E:699:101::50, icmp_seq=4 hlim=63 time=1.995 ms

--- Ping6 statistics for 240E:699:101::50 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip_min/avg/max/std-dev = 1.444/1.991/2.482/0.423 ms
```

在B上查看nat66会话

```
[MSR56-1]display nat66 session
Slot 0:
Total sessions found: 0

Slot 3:
Initiator:
  Source      IP/port: DF14::FFFE:1:1:1A/60319
  Destination IP/port: 240E:699:101::50/32768
  VPN instance/VLAN ID/Inline ID: -/-/-
  Protocol: IPV6-ICMP(58)
  Inbound interface: Ten-GigabitEthernet3/0/2.30

Total sessions found: 1
```