

知 堆叠场景下NGFW开启会话同步功能后会话不一致问题

会话同步

outbound链路负载均衡

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组网及说明

不涉及

告警信息

不涉及

问题描述

某局点两台NGFW堆叠主备部署，下行为Reth接口，上行为二层跨框聚合配置最大选中数，业务实际是主备部署。

运行过程中发现主备设备会话数目不一致，差别较大。

设备也已经开启了会话同步功能。

```
[H3C-F1000-AK135]disp se sta su
Slot Sessions TCP    UDP    Rate    TCP rate  UDP rate
1  146718  142107  4545   4816/s   4718/s   95/s
2   148    85     35    33/s    29/s     1/s
```

```
#
session synchronization enable
session synchronization dns http
#
```

查看slot 2的会话，备份的会话基本都是一些本地发出或者到本机的会话。

```
<H3C-F1000-AK135>disp session ta ipv4 sl 2 ver
Slot 2:
Initiator:
  Source   IP/port: 221.12.166.112/6606
  Destination IP/port: 221.12.1.227/2048
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/
  Protocol: ICMP(1)
  Inbound interface: InLoopBack0
  Source security zone: Local
Responder:
  Source   IP/port: 221.12.1.227/6606
  Destination IP/port: 221.12.166.112/0
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/
  Protocol: ICMP(1)
  Inbound interface: Vlan-interface4012
  Source security zone: Untrust
State: INACTIVE
Application: ICMP
Rule ID: 3
Rule name: 1
Start time: 2023-05-02 11:58:32 TTL: 212s
Initiator->Responder:      0 packets      0 bytes
Responder->Initiator:      0 packets      0 bytes

Initiator:
  Source   IP/port: 113.12.181.168/9356
  Destination IP/port: 115.221.240.66/57413
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/
  Protocol: UDP(17)
  Inbound interface: Dialer1
  Source security zone: Untrust
Responder:
  Source   IP/port: 115.221.240.66/57413
  Destination IP/port: 113.12.181.168/9356
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/
  Protocol: UDP(17)
  Inbound interface: InLoopBack0
  Source security zone: Local
State: INACTIVE
Application: GENERAL_UDP
Rule ID: 4
Rule name: 2
Start time: 2023-05-06 15:04:48 TTL: 276s
Initiator->Responder:      0 packets      0 bytes
Responder->Initiator:      0 packets      0 bytes

Initiator:
  Source   IP/port: 183.167.205.250/52803
  Destination IP/port: 115.221.240.66/26881
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/
  Protocol: TCP(6)
  Inbound interface: Dialer1
  Source security zone: Untrust
Responder:
```

```

解决方法 Source IP/port: 115.221.240.66/26881
Destination IP/port: 183.167.205.250/52803
开启虚服务器的会话扩展信息备份功能
DS-Lite tunnel peer: -
VPN instance/VLAN ID/Inline ID: -/-
connection-sync enable命令用来开启虚服务器的会话扩展信息备份功能。
Protocol: TCP(6)
undo connection-sync enable命令用来关闭虚服务器的会话扩展信息备份功能。
Inbound interface: InLoopBack0
【命令】
Source security zone: Local
connection-sync enable
State: INACTIVE
undo connection-sync enable
Application: GENERAL_TCP
【缺省情况】
Rule ID: 4
虚服务器的会话扩展信息备份功能处于关闭状态。
Rule name: 2
【视图】
Start time: 2023-05-06 15:05:09 TTL: 298s
虚服务器视图
Initiator->Responder: 0 packets 0 bytes
【缺省用户角色】
Responder->Initiator: 0 packets 0 bytes
network-admin
mdc-admin
Initiator:
vsys-admin
Source IP/port: 49.234.25.245/49399
【使用指导】
Destination IP/port: 115.221.240.66/1234
H3C IP类型的虚服务器不支持本命令。
DS-Lite tunnel peer: -
【举例】
# 开启IP类型的虚服务器V3的会话扩展信息备份功能。
VPN instance/VLAN ID/Inline ID: -/-
Protocol: UDP(17)
<Sysname>system-view
Inbound interface: Dialer1
[Sysname] virtual-server vs3 type ip
Source security zone: Untrust
[Sysname-vs-ip-vs3] connection-sync enable
Responder:
Source IP/port: 115.221.240.66/1234
Destination IP/port: 49.234.25.245/49399
DS-Lite tunnel peer: -
VPN instance/VLAN ID/Inline ID: -/-
Protocol: UDP(17)
Inbound interface: InLoopBack0
Source security zone: Local
State: INACTIVE
Application: GENERAL_UDP
Rule ID: 4
Rule name: 2
Start time: 2023-05-06 15:04:47 TTL: 276s
Initiator->Responder: 0 packets 0 bytes
Responder->Initiator: 0 packets 0 bytes

```

对比 slot1大部分都是转发的报文。

```

<H3C-F1000-AK135>disp session ta ipv4 ver
Slot 1:
Initiator:
Source IP/port: 192.168.20.124/57721
Destination IP/port: 192.168.200.57/8080
DS-Lite tunnel peer: -
VPN instance/VLAN ID/Inline ID: -/-
Protocol: TCP(6)
Inbound interface: Reth12
Source security zone: Trust
Responder:
Source IP/port: 192.168.200.57/8080
Destination IP/port: 115.221.240.66/8104
DS-Lite tunnel peer: -
VPN instance/VLAN ID/Inline ID: -/-
Protocol: TCP(6)
Inbound interface: Dialer1
Source security zone: Untrust
State: TCP_SYN_SENT
Application: GENERAL_TCP
Rule ID: 1
Rule name: trust_untrsut
Start time: 2023-05-06 15:07:57 TTL: 20s
Initiator->Responder: 2 packets 104 bytes

```

