

知 某局点 S6850 M-LAG组网网关不响应arp问题

ARP 许家豪 2022-09-16 发表

问题描述

型号及版本: S6850 6555P01H37

问题描述: M-LAG+VRRP组网, 单挂一台服务器, 服务器学习不到VRRP虚地址arp, 删除空down的M-LAG口后可以学习到

过程分析

过程分析:

debug看两设备收发arp 正常, 设备上都能学习到服务器的arp

M-LAG-1 arp收发正常

行 2601: [20220823-10:44:46]*Aug 23 10:44:46:777 2022 RZ-6850-A3-403-1-9 ARP/7/ARP_RCV: Received an ARP message, operation: 1, sender MAC: 7cd9-a056-1264, sender IP: 10.96.248.34, target MAC: 0000-0000-0000, target IP: 10.96.248.1

行 2602: [20220823-10:44:46]*Aug 23 10:44:46:777 2022 RZ-6850-A3-403-1-9 ARP/7/ARP_SEND: Sent an ARP message, operation: 2, sender MAC: 0000-5e00-0164, sender IP: 10.96.248.1, target MAC: 7cd9-a056-1264, target IP: 10.96.248.34

行 2607: [20220823-10:44:48]*Aug 23 10:44:48:731 2022 RZ-6850-A3-403-1-9 ARP/7/ARP_RCV: Received an ARP message, operation: 1, sender MAC: 7cd9-a056-1264, sender IP: 10.96.248.34, target MAC: 0000-0000-0000, target IP: 10.96.248.1

行 2608: [20220823-10:44:48]*Aug 23 10:44:48:731 2022 RZ-6850-A3-403-1-9 ARP/7/ARP_SEND: Sent an ARP message, operation: 2, sender MAC: 0000-5e00-0164, sender IP: 10.96.248.1, target MAC: 7cd9-a056-1264, target IP: 10.96.248.34

M-LAG-2

行 1601: [20220823-10:44:48]*Aug 23 10:44:48:731 2022 RZ-6850-A3-403-1-10 ARP/7/ARP_RCV: Received an ARP message, operation: 1, sender MAC: 7cd9-a056-1264, sender IP: 10.96.248.34, target MAC: 0000-0000-0000, target IP: 10.96.248.1

行 1602: [20220823-10:44:48]*Aug 23 10:44:48:732 2022 RZ-6850-A3-403-1-10 ARP/7/ARP_RCV: Received an ARP message, operation: 2, sender MAC: 0000-5e00-0164, sender IP: 10.96.248.1, target MAC: 7cd9-a056-1264, target IP: 10.96.248.34

行 1606: [20220823-10:44:49]*Aug 23 10:44:49:276 2022 RZ-6850-A3-403-1-10 ARP/7/ARP_RCV: Received an ARP message, operation: 1, sender MAC: 7cd9-a056-1264, sender IP: 10.96.248.34, target MAC: 0000-0000-0000, target IP: 10.96.248.1

行 1607: [20220823-10:44:49]*Aug 23 10:44:49:277 2022 RZ-6850-A3-403-1-10 ARP/7/ARP_RCV: Received an ARP message, operation: 2, sender MAC: 0000-5e00-0164, sender IP: 10.96.248.1, target MAC: 7cd9-a056-1264, target IP: 10.96.248.34

抓包看 arp报文未从单挂口发出

334	2022-08-24	15:01:47.567419	Microsoft_f8:22:05	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.55
335	2022-08-24	15:01:47.743660	HuaweiTe_56:12:64	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.34
336	2022-08-24	15:01:48.379526	HuaweiTe_56:12:64	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.34
337	2022-08-24	15:01:48.569260	Microsoft_f8:22:05	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.55
338	2022-08-24	15:01:49.372836	HuaweiTe_56:12:64	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.34
339	2022-08-24	15:01:49.571377	Microsoft_f8:22:05	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.55
340	2022-08-24	15:01:50.573472	Microsoft_f8:22:05	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.55
341	2022-08-24	15:01:50.756263	HuaweiTe_56:12:64	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.34
342	2022-08-24	15:01:51.375145	HuaweiTe_56:12:64	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.34
343	2022-08-24	15:01:51.575399	Microsoft_f8:22:05	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.55
344	2022-08-24	15:01:52.380368	HuaweiTe_56:12:64	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.34
345	2022-08-24	15:01:52.577397	Microsoft_f8:22:05	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.55
346	2022-08-24	15:01:53.579456	Microsoft_f8:22:05	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.55
347	2022-08-24	15:01:53.579855	IETF-VRRP-VRID_64	Microsoft_f8:22:05	--	56 10.96.248.1 is at 00:00:5e:00:01:64
348	2022-08-24	15:01:53.770940	HuaweiTe_56:12:64	Broadcast	--	60 who has 10.96.248.1? Tell 10.96.248.34
349	2022-08-24	15:01:53.771488	IETF-VRRP-VRID_64	HuaweiTe_56:12:64	--	56 10.96.248.1 is at 00:00:5e:00:01:64
350	2022-08-24	15:02:03.059977	HuaweiTe_56:12:66	Microsoft_f8:22:00	--	60 who has 10.96.248.9? Tell 10.96.248.12

检查配置发现

IPP口没有配置 undo mac-address static source-check enable

配置空M-LAG口, VRRP虚mac在备设备上下发, 不配置的话, VRRP 不下发虚mac

配置空M-LAG口的情况下, 主设备回应的arp reply 报文走IPL链路到备上因为源mac检查被丢了

```
interface Bridge-Aggregation10
```

```
port link-type trunk
```

```
port trunk permit vlan all
```

```
link-aggregation mode dynamic
```

```
port drni intra-portal-port 1
```

解决方法

IPP口配置 `undo mac-address static source-check enable`即可

