

### 问题描述

现场两台MSR36路由器做了VRRP，display vrrp查看vlan3各自状态都是Master  
正常情况一边是Master，一边是Backup

### 过程分析

查看1、2两台设备的vrrp状态，vlan1和vlan2正常，一主一备，vlan3异常，状态两边都是主，两个路由器vlan3之间能相互ping通，说明网络没问题

[1]dis vrrp

IPv4 Virtual Router Information:

Running mode : Standard

Total number of virtual routers : 3

Interface	VRID	State	Running Pri	Adver Timer	Auth Type	Virtual IP
Vlan1	100	Backup	90	100	Not supported	197.168.100.1
Vlan2	200	Master	110	100	Not supported	182.30.100.1
<b>Vlan3</b>	<b>208</b>	<b>Master</b>	<b>110</b>	<b>100</b>	<b>Not supported</b>	<b>182.28.100.1</b>

[2]dis vrrp

IPv4 Virtual Router Information:

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<b>Vlan3</b>	<b>208</b>	<b>Master</b>	<b>90</b>	<b>100</b>	<b>Not supported</b>	<b>182.28.100.1</b>

接着查看三个vlan接口的配置，发现都配置了包过滤

#

```
interface Vlan-interface3
```

```
packet-filter name in inbound
```

#

查看ACL的配置

发现vlan1和vlan2的ACL是deny了一些IP最后permit，vlan3的ACL是permit了一些IP最后是deny，查看rule规则，两个MSR36之间只放通了ICMP报文，怀疑是VRRP报文没有正常交互，现场测试了取消vlan3接口的包过滤，发现VRRP状态就正常了

```

#
acl number [redacted]
rule 5 deny ip source [redacted] destination [redacted]
rule 6 deny ip source [redacted] destination [redacted]
rule 7 deny ip source [redacted] destination [redacted]
rule 8 deny ip source [redacted] destination [redacted]
rule 30 deny ip source [redacted] destination [redacted]
rule 35 deny ip destination [redacted]
rule 40 deny ip destination [redacted]
rule 45 deny ip destination [redacted]
rule 50 deny ip destination [redacted]
rule 999 permit ip
#
acl number [redacted]
rule 5 deny ip source [redacted] destination [redacted]
rule 6 deny ip source [redacted] destination [redacted]
rule 10 deny ip source [redacted] destination [redacted]
rule 11 deny ip source [redacted] destination [redacted]
rule 20 deny ip destination [redacted]
rule 25 deny ip destination [redacted]
rule 30 deny ip destination [redacted]
rule 35 deny ip destination [redacted]
rule 999 permit ip
#
acl number [redacted]
rule 10 permit ip source [redacted] destination [redacted]
rule 20 permit ip source [redacted] destination [redacted]
rule 30 permit ip source [redacted] destination [redacted]
rule 40 permit ip source [redacted] destination [redacted]
rule 50 permit ip source [redacted] destination [redacted]
rule 60 permit ip source [redacted] destination [redacted]
rule 100 permit icmp source [redacted] destination [redacted]
rule 1000 deny ip
#

```

#### 解决方法

综上，设备上做了ACL包过滤的话，两个MSR36之间需要放通到固定组播地址224.0.0.18的VRRP报文，如下

```
rule 101 permit ip source 182.28.100.0 0.0.0.255 destination 224.0.0.18 0
```

加上之后，现场反馈vlan 3的VRRP状态正常了