

知 CAS扩容主机添加CVK报错: Cannot recv data:ssh\_exchange\_identification:read:Connection reset by peer: Connection reset by peer

戴丽丽 2022-09-11 发表

问题描述

E0535H05 CAS扩容主机添加CVK报错: Cannot recv data:ssh\_exchange\_identification:read:Connection reset by peer: Connection reset by peer

完成时间	登录地址	操作分类	操作对象	操作描述	执行结果	失败原因
2022-08-24 11:02:01	10.10.10.10	主机动作	10.10.10.10	增加主机	失败	Cannot recv data: s...
2022-08-24 10:39:20	10.10.10.10	主机动作	10.10.10.10	增加主机	失败	Cannot recv data: s...
2022-08-24 10:38:21	10.10.10.10	主机动作	10.10.10.10	增加主机	成功	Cannot recv data: s...
2022-08-24 10:10:33	10.10.10.10	主机动作	10.10.10.10	增加主机	成功	Cannot recv data: s...

## 过程分析

1. 检查主机与CVM、集群CVK之间SSH及网络连通性是否正常；
2. 查看cas.log日志打印，与前台报错一致，怀疑与组网中网络有关。

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2022-08-24 10:10:20 [ERROR] [http:10-8080-exec-26] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:12 [ERROR] [Thread-2824] [com.virtual.common.ErrorStreamHandlerThread:] Authorized users only. All activity may be monitored and reported
2022-08-24 10:10:13 [ERROR] [http:10-8080-exec-59] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:13 [ERROR] [http:10-8080-exec-59] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:13 [ERROR] [Thread-2825] [com.virtual.common.ErrorStreamHandlerThread:]
2022-08-24 10:10:13 [ERROR] [http:10-8080-exec-59] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:13 [ERROR] [Thread:] [com.virtual.plat.server.RequestHandler:] RequestHandler: msg id is 0, waiting, countDown is 5
2022-08-24 10:10:18 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:14 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:14 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:14 [ERROR] [Thread-2831] [com.virtual.common.ErrorStreamHandlerThread:] Authorized users only. All activity may be monitored and reported
2022-08-24 10:10:18 [ERROR] [Thread-2836] [com.virtual.common.ErrorStreamHandlerThread:] Authorized users only. All activity may be monitored and reported
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::copy] scp /root/.ssh/hosts to 10.82.22.102:/etc/hosts failed.
2022-08-24 10:10:18 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::copy] [java.lang.StackOverflowError:0x01546427
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.util.ConnectHostUtil::connectHost] null
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::getHostInfo] qemussh://root@10.82.22.102/system/no_tty1
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.LibvirtExceptionMapper::mapException] Cannot recv data: ssh_exchange_identification: read: connection reset by peer: Connection reset by peer
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::getConnexion] null
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.ServerUtil::logApplication] Application Exception
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::connect] null
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.LibvirtExceptionMapper::mapException] Cannot recv data: ssh_exchange_identification: read: connection reset by peer: Connection reset by peer
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::getConnexion] null
2022-08-24 10:10:20 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:20 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:20 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:20 [ERROR] [Cluster Request Processor Manager :] [com.virtual.plat.server.ClusterRequestProcessor::run] null
  
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3. 了解到，环境中CVM与CVK通过专线打通，不在同一个数据中心，测试报错CVK作为单独CVM集群，添加至集群中没有异常，添加成功，怀疑与网络相关。CVM与、CVK之间网络设备连接：CVM---运维核心交换机---运维管理区防火墙---总核心---广域网防火墙---CVK，分别从CVM、运维区防火墙、广域网防火墙、CVK依次进行抓包，根据抓包文件进行分析：

分析CVM发送的数据报文，路径如下：

- (1) CVM发送的报文是正常的。

No.	Time	Source	Destination	Protocol	Length	Info
760	47.762840	10.191.248.117	10.82.22.102	TCP	74	54600 -> 22 [SYN] Seq=0 Min=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=2647436540 TSecr=0 WS=128
770	47.769547	10.191.248.117	10.82.22.102	TCP	66	54600 -> 22 [ACK] Seq=1 Ack=1 Min=29312 Len=0 TSval=2647436547 TSecr=2635687195
771	47.769763	10.191.248.117	10.82.22.102	SSHv2	110	Client: Protocol (SSH-2.0-OpenSSH_6.6.1p1 Ubuntu-Zubuntu2.11)

- (2) 运维区防火墙，收到的报文也是正常的。

No.	Time	Source	Destination	Protocol	Length	Info
735	31.693991	10.191.248.117	10.82.22.102	TCP	74	54600 -> 22 [SYN] Seq=0 Min=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=2647436540 TSecr=0 WS=128
737	31.780681	10.191.248.117	10.82.22.102	TCP	70	54600 -> 22 [ACK] Seq=1 Ack=1 Min=29312 Len=0 TSval=2647436547 TSecr=2635687195
738	31.780981	10.191.248.117	10.82.22.102	SSHv2	114	Client: Protocol (SSH-2.0-OpenSSH_6.6.1p1 Ubuntu-Zubuntu2.11)

(3) 广域网防火墙，突然多了一个RST报文（源IP地址是CVM，目的IP地址是CVK），从抓包文件看不出报文从哪里来的。

No.	Time	Source	Destination	Protocol	Length	Info
722	21.659277	10.191.248.117	10.82.22.102	TCP	74	54600 -> 22 [SYN] Seq=0 Min=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=2647436540 TSecr=0 WS=128
724	21.656684	10.191.248.117	10.82.22.102	TCP	66	54600 -> 22 [ACK] Seq=1 Ack=1 Min=29312 Len=0 TSval=2647436547 TSecr=2635687195
725	21.657175	10.191.248.117	10.82.22.102	SSHv2	110	Client: Protocol (SSH-2.0-OpenSSH_6.6.1p1 Ubuntu-Zubuntu2.11)
729	21.667915	10.191.248.117	10.82.22.102	TCP	66	54600 -> 22 [RST] Seq=45 Min=29056 Len=0 TSval=2635687206 TSecr=2647436547

- (4) 在CVK的报文上也收到了RST报文。

No.	Time	Source	Destination	Protocol	Length	Info
381	46.697129	10.191.248.117	10.82.22.102	TCP	74	54600 -> 22 [SYN] Seq=0 Min=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=2647436540 TSecr=0 WS=128
382	46.793787	10.191.248.117	10.82.22.102	TCP	66	54600 -> 22 [ACK] Seq=1 Ack=1 Min=29312 Len=0 TSval=2647436547 TSecr=2635687195
383	46.704029	10.191.248.117	10.82.22.102	SSHv2	110	Client: Protocol (SSH-2.0-OpenSSH_6.6.1p1 Ubuntu-Zubuntu2.11)
384	46.714708	10.191.248.117	10.82.22.102	TCP	66	54600 -> 22 [RST] Seq=45 Min=29056 Len=0 TSval=2635687206 TSecr=2647436547

分析CVK发送的数据报文，路径如下：

- (1) CVK发送的报文，是正常的。

No.	Time	Source	Destination	Protocol	Length	Info
381	46.697281	10.82.22.102	10.191.248.117	TCP	74	22 -> 54600 [SYN, ACK] Seq=0 Ack=1 Min=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=2635687195 TSecr=2647436540 WS=128
382	46.104034	10.82.22.102	10.191.248.117	TCP	66	22 -> 54600 [ACK] Seq=1 Ack=45 Min=29056 Len=0 TSval=2635687202 TSecr=2647436547
383	46.104247	10.82.22.102	10.191.248.117	SSH	110	Server: Protocol (SSH-2.0-OpenSSH_6.6.1p1 Ubuntu-Zubuntu2.11)

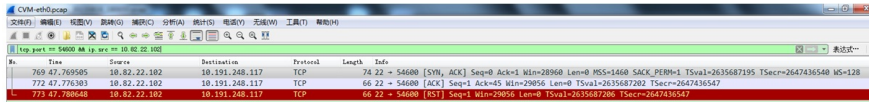
- (2) 广域网防火墙，突然多了一个RST报文（源IP地址是CVK，目的IP地址是CVM），从抓包文件看不出报文从哪里来的。

No.	Time	Source	Destination	Protocol	Length	Info
723	21.656747	10.82.22.102	10.191.248.117	TCP	74	22 -> 54600 [SYN, ACK] Seq=0 Ack=1 Min=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=2635687195 TSecr=2647436540 WS=128
726	21.663563	10.82.22.102	10.191.248.117	TCP	66	22 -> 54600 [ACK] Seq=1 Ack=45 Min=29056 Len=0 TSval=2635687202 TSecr=2647436547
727	21.667889	10.82.22.102	10.191.248.117	SSHv2	110	Server: Protocol (SSH-2.0-OpenSSH_6.6.1p1 Ubuntu-Zubuntu2.11)
728	21.667912	10.82.22.102	10.191.248.117	TCP	66	22 -> 54600 [RST] Seq=1 Min=29056 Len=0 TSval=2635687206 TSecr=2647436547

- (3) 运维区防火墙，也收到了RST报文

No.	Time	Source	Destination	Protocol	Length	Info
736	31.708951	10.82.22.102	10.191.248.117	TCP	74	22 -> 54600 [SYN, ACK] Seq=0 Ack=1 Min=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=2635687195 TSecr=2647436540 WS=128
739	31.707399	10.82.22.102	10.191.248.117	TCP	70	22 -> 54600 [ACK] Seq=1 Ack=45 Min=29056 Len=0 TSval=2635687202 TSecr=2647436547
720	31.671924	10.82.22.102	10.191.248.117	TCP	70	22 -> 54600 [RST] Seq=1 Min=29056 Len=0 TSval=2635687206 TSecr=2647436547

#### (4) CVM也收到了这个RST报文



The screenshot shows a network traffic capture in Wireshark. The selected packet is a TCP RST (Reset) packet. The packet list pane shows three packets:

No.	Time	Source	Destination	Protocol	Length	Info
769	47.269505	10.82.22.102	10.191.248.117	TCP	74	22 → 54600 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=2635687195 TSecr=2647436540 WS=128
772	47.276303	10.82.22.102	10.191.248.117	TCP	66	22 → 54600 [ACK] Seq=1 Ack=45 Win=29056 Len=0 TSval=2635687202 TSecr=2647436547
773	47.280601	10.82.22.102	10.191.248.117	TCP	60	22 → 28600 [RST] Seq=1 Win=29056 Len=0 TSval=2635687206 TSecr=2647436547

从上述抓包文件，大概率是广域网防火墙设备有问题，该设备在转发过程中，会突然多出一个RST报文，目前无法确定这个RST报文的来源，针对该设备进行排查。

#### 解决方法

经现场排查网络设备后，发现CVM与CVK之间的连接被其他厂商的入侵防御阻断导致。放开限制后添加CVK正常。

