

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

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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 | |
| 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: ssh_exchange_identification: read: Connection reset by peer: Connection reset by peer |

过程分析

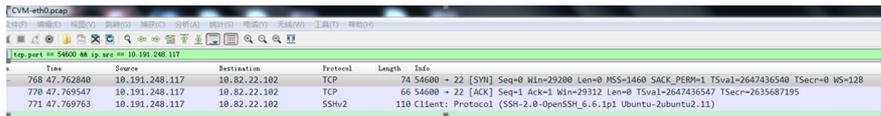
- 1、检查主机与CVM、集群CVK之间SSH及网络连通性是否正常；
- 2、查看cas.log日志打印，与前台报错一致，怀疑与组网中网络有关。

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2022-08-24 10:10:20 [ERROR] [http:io-8080-exec-26] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostCpuInfo] 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:io-8080-exec-59] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostCpuInfo] python /opt/bin/get-sysinfo.py result is <?xml version="1.0" encoding="utf-8"?>
2022-08-24 10:10:13 [ERROR] [http:io-8080-exec-59] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostCpuInfo] 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:io-8080-exec-59] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostCpuInfo] 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 10:10:14 [ERROR] [Cluster Request Processor Manager:] [com.virtual.plat.server.vm.ssh.SshHostTool::getHostCpuInfo] 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::getHostCpuInfo] 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 10:10:14 [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 10:10:19 [ERROR] [Cluster Request Processor Manager:] [com.virtual.plat.server.vm.ssh.SshHostTool::copy] /usr/bin/ncp: Stuck at read element 0/416427
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::getConn] java.io.IOException: read: Connection reset by peer
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
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager:] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::getConn] null
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager:] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::getConn] null
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager:] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::getConn] 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
2022-08-24 10:10:19 [ERROR] [Cluster Request Processor Manager:] [com.virtual.plat.server.vm.hypervisor.ConnectionManager::getConn] null
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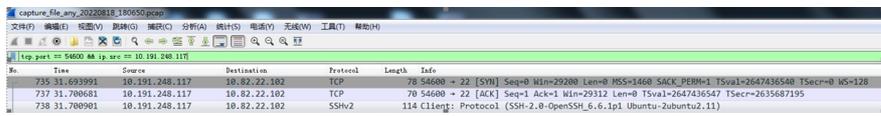
3、了解到，环境中CVM与CVK通过专线打通，不在同一个数据中心，测试报错CVK作为单独CVM集群，添加至集群中没有异常，添加成功，怀疑与网络相关。CVM与、CVK之间网络设备连接：CVM---运维核心交换机---运维管理区防火墙---总核心---广域网防火墙---CVK，分别从CVM、运维区防火墙、广域网防火墙、CVK依次进行抓包，根据抓包文件进行分析：

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。



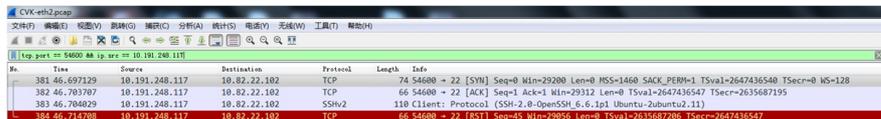
- (2) 运维区防火墙，收到的报文也是正常的。



(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。

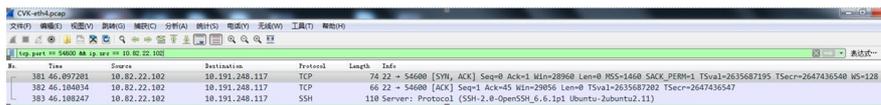


- (4) 在CVK的报文中也收到了RST报文。



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。



(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。



- (3) 运维区防火墙，也收到了RST报文



(4) CVM也收到了这个RST报文



The screenshot shows a network traffic analysis tool (Wireshark) displaying a packet capture. 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。

