

知 CAS CVK免密失效导致连接主机失败

王叶挺 2022-01-12 发表

组网及说明

【软件版本】CAS E0535

问题描述

CVK主机前台状态显示为异常，连接主机时提示失败，任务报错“系统调用错误，错误码为38”。

级别	确认状态	告警来源	类型	告警信息
<input type="checkbox"/> 重要	未确认	主机"cvknode-1"(10.0.100.11)	其他异常告警	连接主机失败。
<input type="checkbox"/> 重要	未确认	主机"cvknode-2"(10.0.100.12)	其他异常告警	连接主机失败。
<input type="checkbox"/> 重要	未确认	主机"cvknode-3"(10.0.100.13)	其他异常告警	连接主机失败。

任务状态	任务描述	操作员
100%	连接主机"cvknode-1"失败。原因：系统调用失败（错误码为：38）。	admin

过程分析

后台cas.log中记录“Cannot recv data: Authorized users only”，说明用户认证存在问题。

```
2021-12-07 17:28:18 [ERROR] [Cluster Request Processor Manager] [com.virtual.plat.server.ClusterRequestProcessorImpl] null
com.virtual.common.AppException: (38 - 浏览器端基数据同步异常) 失败码: #错误码: [Cannot recv data: Authorized users only, All activity may be monitored and reported
Permission denied (publickey,password): Connection reset by peer
at com.virtual.plat.server.vm.util.ConnectHandler1.connectHost(vmo:1802) ~[vmo.jar:?]
at com.virtual.plat.server.host.HostHandler.a(vmo:1930) ~[vmo.jar:?]
at com.virtual.plat.server.host.HostHandler.connectHost(vmo:1896) ~[vmo.jar:?]
at com.virtual.plat.server.clusterRequestProcessor.run(vmo:440) [vmo.jar:?]
at java.lang.Thread.run(Thread.java:745) [?:1.8.0_111]
Caused by: com.virtual.plat.server.vmo.HypervisorException: Cannot recv data: Authorized users only. All activity may be monitored and reported
Permission denied (publickey,password): Connection reset by peer
```

尝试ssh至其他CVK，发现各节点之间的免密失效。

```
root@cvknode-1:/var/log/tomcat8# ssh cvknode-2
Authorized users only. All activity may be monitored and reported
root@cvknode-2's password:
Last login: Tue Dec 7 15:32:06 2021 from 10.0.100.11
root@cvknode-2:~# ssh cvknode-3
```

尝试重新生成新密钥：ssh-keygen -t rsa

```
root@cvknode-1:/etc# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
/root/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
6c:f9:8d:18:29:c9:6d:62:03:f6:20:19:69:ac:ed:98 root@cvknode-1
The key's randomart image is:
+--[ RSA 2048 ]-----+
|   ...   |
|  +O     |
| +O +    |
| . .o = + o |
| +   O S  |
|E . . * + o |
|           |
|   . . .   |
|           |
+-----+

```

拷贝密钥至其他节点：ssh-copy-id <其他节点IP>

但依旧存在免密失效的问题。

```
root@cvknode-1:/etc# ssh-copy-id 10.0.100.12
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
root@10.0.100.12's password:
Number of key(s) added: 1

Now try logging into the machine, with: "ssh '10.0.100.12'"
and check to make sure that only the key(s) you wanted were added.

root@cvknode-1:/etc# ssh cvknode-2
Authorized users only. All activity may be monitored and reported
root@cvknode-2's password:
```

解决方法

最终定位发现/root/.ssh/目录的root权限被更改

```
root@cvknode-2:~# ll -ah
total 28K
drwxr-xr-x  4 root root 4.0K Jun 17 16:34 ./
drwxr-xr-x 25 root root 4.0K Dec  7 19:33 ../
-rw-----  1 root root   60 Dec  7 19:33 .bash_history
-rw-r--r--  1 root root 3.1K Apr 19  2012 .bashrc
drwx-----  2 root root 4.0K Jun 17  2020 .cache/
-rw-r--r--  1 root root  140 Apr 19  2012 .profile
drwxr-xr-x  3 1000 1000 4.0K Dec  7 19:16 .ssh/
```

修改所有节点上的/root/.ssh/目录权限: chown root:root /root/.ssh/

各节点间免密恢复正常

```
root@cvknode-3:~# ssh cvknode-1
Warning: Permanently added 'cvknode-1' (ECDSA) to the list of known hosts.
Authorized users only. All activity may be monitored and reported
Last login: Tue Dec  7 19:37:14 2021 from 10.0.100.12
root@cvknode-1:~# ssh cvknode-3
Authorized users only. All activity may be monitored and reported
Last login: Tue Dec  7 19:38:29 2021 from 10.0.100.12
-bash: PROMPT_COMMAND: readonly variable
root@cvknode-3:~# █
```

此时连接CVK主机成功, 状态恢复正常。

任务名称	操作对象	任务状态	任务描述
连接主机'cvknode-3'	cvknode-3	100%	连接主机'cvknode-3'成功。

