

某局点使用U-Center纳管HP DL580 G7 (iLO3) 显示未知问题

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组网及说明

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问题描述

使用U-Center纳管HP DL580 G7 (iLO3) 显示未知问题



过程分析

1、对于SSA纳管服务器显示未知问题，首先第一步需要排查的就是通过ipmitool工具连接测试下对应服务器，确认通过工具采集到的信息是否正常，如果通过ipmitool工具就连不上或者采集不到数据，那么就要先排查服务器本身是否开启了ipmi协议，以及对应的端口是否有放通。本例现场环境测试发现回显正常，截图如下：

```
171.txt 127.0.0.1_incforeground.log
1 C:\Users\Administrator\Desktop\ipmitool>ipmitool -I lanplus -H 192.168.1.100 -U
2 admin -P {password} shell
3 ipmitool> fru
4 FRU Device Description : Builtin FRU Device (ID 0)
5 Chassis Type : Rack Mount Chassis
6 Chassis Serial : CN725203GB
7 Board Mfg : HP
8 Board Product : ProLiant DL580 G7
9 Board Serial : CN725203GB
10 Board Part Number : B8C93A
11 Product Manufacturer : HP
12 Product Name : ProLiant DL580 G7
13 Product Part Number : B8C93A
14 Product Serial : CN725203GB
15
16 FRU Device Description : CPU 1 DIMM 1 (ID 112)
17 Memory Size : 0 MB
18 Memory Type : Unknown (0xb)
19 Voltage Intf : Unknown (0xb)
20 Error Detect/Cor : Unknown (0x8)
21 Manufacturer : Unknown (0x0)
22
23 FRU Device Description : CPU 1 DIMM 3 (ID 114)
24 Memory Size : 0 MB
25 Memory Type : Unknown (0xb)
26 Voltage Intf : Unknown (0xb)
27 Error Detect/Cor : Unknown (0x8)
28 Manufacturer : Unknown (0x0)
29
30 FRU Device Description : CPU 1 DIMM 6 (ID 117)
31 Memory Size : 0 MB
32 Memory Type : Unknown (0xb)
33 Voltage Intf : Unknown (0xb)
34 Error Detect/Cor : Unknown (0x8)
35 Manufacturer : Unknown (0x0)
36
37 FRU Device Description : CPU 1 DIMM 8 (ID 119)
38 Memory Size : 0 MB
39 Memory Type : Unknown (0xb)
40 Voltage Intf : Unknown (0xb)
```

2、对于ipmitool工具采集正常，但是获取数据有问题的就需要对应收集日志分析查看了，根据不同厂商服务器使用的不同协议，需要收集不同的信息，即：对于使用ipmi和rest方式的需要收集ipmitool的回显信息以及前台jsrver的debug日志，对应snmp的除了以上信息外还需要录制下设备mib。
注：

1) 目前服务器主要使用的协议有：ipmi、snmp、rest

2) 添加服务器时，所有服务器都会使用ipmi获取服务器上的厂商、产品名称、序列号（Product Manufacturer、Product Name、Product Serial）；添加完成后，采集数据才会根据不同的厂商选择不同的协议，例如：

* Ipmi: h3c自研的服务器、浪潮

* Snmp: 华为、IBM System x系列、联想System x系列、DELL

* Rest: hp、h3c贴牌hp的服务器（例如：H3C UIS R390 G2）

查看前台日志有如下报错：javax.net.ssl.SSLHandshakeException: Received fatal alert: handshake_failure

这个报错是由于openjdk版本的安全性问题导致的。

```

201184 2020-11-23 12:57:53 [DEBUG] [http-nio-8080-exec-15] [com.lmc.filter.JmcExpiresFilter::getExpirationDate] No Expires configuration found for content-type [text/html;charset=GBK]
201187 2020-11-23 12:57:53 [DEBUG] [http-nio-8080-exec-18] [com.lmc.filter.JmcExpiresFilter::onBeforeWriteResponseBody] Request [/lmc/fault/accessMgrServletForBoard] with response status
201188 2020-11-23 12:57:53 [DEBUG] [Thread-61] [com.lmc.cim.dataCollect.DataCollectDispatcherDispatcherThread::run] -----DispatcherThread run devServerIdEntry-----null
201189 2020-11-23 12:57:53 [DEBUG] [Thread-61] [com.lmc.cim.dataCollect.DataCollectDispatcherDispatcherThread::run] -----DispatcherThread run getThreadCount-----0
201190 2020-11-23 12:57:53 [DEBUG] [Thread-61] [com.lmc.cim.dataCollect.DataCollectDispatcherDispatcherThread::run] The serverDevId size is zero, no server device need to collect data.
201191 [ERROR] [Thread-61] [com.lmc.cim.rest.Connection.executeWithDefaultRetry] Notice http request 1 connect, retry 1 times.
201192 java.net.ssl.SSLHandshakeException: Received fatal alert: handshake failure
201193 at java.base/sun.security.ssl.Alert.createSSLException(Alert.java:129)
201194 at java.base/sun.security.ssl.Alert.createSSLException(Alert.java:117)
201195 at java.base/sun.security.ssl.TransportContext.fatal(TransportContext.java:308)
201196 at java.base/sun.security.ssl.Alert$AlertConsumer.consume(Alert.java:279)
201197 at java.base/sun.security.ssl.TransportContext.dispatch(TransportContext.java:181)
201198 at java.base/sun.security.ssl.SSLTransport.decode(SSLTransport.java:144)
201199 at java.base/sun.security.ssl.SSLSocketImpl.decode(SSLSocketImpl.java:1152)
201200 at java.base/sun.security.ssl.SSLSocketImpl.readHandshakeRecord(SSLSocketImpl.java:1063)
201201 at java.base/sun.security.ssl.SSLSocketImpl.startHandshake(SSLSocketImpl.java:402)
201202 at org.apache.http.conn.ssl.SSLContextFactory.createLayeredSocket(SSLSocketFactory.java:573)
201203 at org.apache.http.conn.ssl.SSLContextFactory.connectSocket(SSLSocketFactory.java:557)
201204 at org.apache.http.conn.ssl.SSLContextFactory.connectSocket(SSLSocketFactory.java:414)
201205 at org.apache.http.impl.conn.DefaultClientConnectionOperator.openConnection(DefaultClientConnectionOperator.java:180)
201206 at org.apache.http.impl.conn.AbstractPoolEntry.open(AbstractPoolEntry.java:144)
201207 at org.apache.http.impl.conn.AbstractPoolConnAdapter.open(AbstractPoolConnAdapter.java:134)
201208 at org.apache.http.impl.client.DefaultRequestDirector.tryConnect(DefaultRequestDirector.java:610)
201209 at org.apache.http.impl.client.DefaultRequestDirector.execute(DefaultRequestDirector.java:445)
201210 at org.apache.http.impl.client.AbstrctHttpClient.doExecute(AbstrctHttpClient.java:83)
201211 at org.apache.http.impl.client.CloseableHttpClient.execute(CloseableHttpClient.java:83)
201212 at com.lmc.cim.rest.Connection.executeWithDefaultRetry(Connection.java:344)
201213 at com.lmc.cim.rest.Connection.executeWithDefaultRetry(Connection.java:309)
201214 at com.lmc.cim.rest.Connection.execute(Connection.java:130)
201215 at com.lmc.cim.rest.ConnectionUtils.sendRequest(ConnectionUtils.java:288)
201216 at com.lmc.cim.rest.ConnectionUtils.sendGet(ConnectionUtils.java:77)
201217 at com.lmc.cim.common.ServerMgrImpl.queryRemoteSyslog(ServerMgrImpl.java:3246)
201218 at com.lmc.cim.servers.funr.ServerInfoDataCollectImpl.handleRemoteSyslog(ServerInfoDataCollectImpl.java:1942)
201219 at com.lmc.cim.servers.funr.ServerInfoDataCollectImpl.handleInfoDataCollectImpl(ServerInfoDataCollectImpl.java:1017)
201220 at com.lmc.cim.servers.funr.ServerInfoDataCollectImpl.obtainAuditedInformation(ServerInfoDataCollectImpl.java:265)
201221 at com.lmc.cim.servers.ServerInfoBase$11.run(ServerInfoBase.java:1802)
201222 at java.base/java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:515)
201223 at java.base/java.util.concurrent.FutureTask.run(FutureTask.java:264)
201224 at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1128)
201225 at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:628)
201226 at java.base/java.lang.Thread.run(Thread.java:834)
201227 2020-11-23 12:57:53 [DEBUG] [pool-1091614-thread-1] [com.lmc.cim.rest.Connection.executeWithDefaultRetry] Execute http request 4 context 1 times. Done : false
201228 2020-11-23 12:57:53 [WARN ] [pool-1091614-thread-1] [com.lmc.cim.rest.Connection.execute]
201229 com.lmc.cim.client.exception.Timeout waiting for connection (1) Timeout waiting for connection.
201230 at com.lmc.cim.rest.Connection.executeWithDefaultRetry(Connection.java:344)

```

解决方法

添加HP iLO3服务器通过服务器资源里的增加按钮，选择ipmi+snmp增加

注销掉以下路径文件的内容，注销用“#”，画红框的每一行都注销掉，注销以后重启UCenter

路径：iMC\common\jre\conf\security\ java.security

```

654 # Example:
655 #jdk.tls.disabledAlgorithms=MD5, SSLv3, DSA, RSA keySize < 2048
656 jdk.tls.disabledAlgorithms=SSLv3, RC4, DES, MD5withRSA, DH keySize < 1024, \
657 EC keySize < 224, 3DES_EDE_CBC, anon, NULL
658
713 # Example:
714 #jdk.tls.legacyAlgorithms=DH_anon, DES_CBC, SSL_RSA_WITH_RC4_128_MD5
715 #
716 jdk.tls.legacyAlgorithms= \
717 K_NULL, C_NULL, M_NULL, \
718 DH_anon, ECDH_anon, \
719 RC4_128, RC4_40, DES_CBC, DES40_CBC, \
720 3DES_EDE_CBC
721

```

注：此方法对于绝大多数iLO3的服务器纳管显示未知问题都适用。