

# 聪明的软件管理器卫星(SSMS) 5.1.0安装在KVM基于内核失效

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## 简介

本文描述解决方案对发生的问题，当聪明的软件管理器卫星(SSMS) 5.1.0安装在包括Cisco Cloud服务平台的键盘/视频/鼠标(KVM)基于内核失效。

## 问题

安装通过控制台完成，并且用户界面(UI)可访问。

在CSSM注册安装过程时，被注意注册发生故障，当网络注册，以及人工登记，进行时。Tomcat版本验证，内核和Java虚拟机在KVM基于系统。注意JVM运行1.8.0\_102-b14和内核3.10.0-514.el7。和ESXI基于设置相比，内核运行3.10.0-862.14.4.el7和JVM 1.8.0\_191-b12。

```
[root@satellite bin]# ./version.sh
Using CATALINA_BASE: /opt/tc
Using CATALINA_HOME: /opt/tc
Using CATALINA_TMPDIR: /opt/tc/temp
Using JRE_HOME: /
Using CLASSPATH: /opt/tc/bin/bootstrap.jar:/opt/tc/bin/tomcat-juli.jar
Using CATALINA_PID: /opt/tomcat/temp/tomcat.pid
Server version: Apache Tomcat/9.0.1
Server built: Sep 27 2017 17:31:52 UTC
Server number: 9.0.1.0
OS Name: Linux
OS Version: 3.10.0-514.el7.x86_64
Architecture: amd64
JVM Version: 1.8.0_102-b14
JVM Vendor: Oracle Corporation
```

## 组件

平台：KVM根据内核

软件：经典之作5.1 ISO镜像

## 解决方案

步骤1.导航对cd/opt/tomcat/logs/。

步骤2.打开catalina.out日志并且查找在与CSSM的注册过程时发生的例外。

IAIK供应商IAIK-JCE是有一套API，并且能实现密码功能的Java加密算法分机。它用于为了支持附加安全性功能到JDK。LCS模块不能生成CSR请求文件的密钥对由于IAIK JAR文件的前不可用。

```
2019-05-15 20:35:01,604 [http-nio-8080-exec-9] INFO controller.LindosController - Invoked GET
/lcsSetupStatus
2019-05-15 20:35:01,606 [http-nio-8080-exec-9] INFO controller.LindosController - LCS Setup
Status = 0
2019-05-15 23:53:12,226 [http-nio-8080-exec-10] INFO controller.LindosController - Invoked GET
/lcsSetupStatus
2019-05-15 23:53:12,230 [http-nio-8080-exec-10] INFO controller.LindosController - LCS Setup
Status = 0
2019-05-15 23:53:12,241 [http-nio-8080-exec-1] INFO controller.LindosController - Invoked
/lcsSetup
2019-05-15 23:53:12,243 [http-nio-8080-exec-1] DEBUG controller.LindosController - Setup Status
= 0 (0=empty, 1=key/CSR generated, 2=Signer certs installed)
2019-05-15 23:53:12,243 [http-nio-8080-exec-1] DEBUG controller.LindosController - First time
setup invoked (ID element not present in JSON). CN=5fc62a80-59a0-0137-54ab-023a01ab3207
2019-05-15 23:53:12,243 [http-nio-8080-exec-1] DEBUG domain.LcsSignerSetup - In LcsSignerSetup
2019-05-15 23:53:12,244 [http-nio-8080-exec-1] DEBUG domain.LcsSignerSetup - Generating Key
Pair...
2019-05-15 23:53:12,244 [http-nio-8080-exec-1] ERROR error.RestResponseEntityExceptionHandler -
java.security.NoSuchProviderException: no such provider: IAIK
com.cisco.ias.lindos.data.domain.LcsSetupException: java.security.NoSuchProviderException: no
such provider: IAIK
at com.cisco.ias.lindos.data.domain.LcsSignerSetup.<init>(LcsSignerSetup.java:50)
at com.cisco.ias.lindos.web.controller.LindosController.setupLcs(LindosController.java:126)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke(Method.java:498)
at
org.springframework.web.method.support.InvocableHandlerMethod.invoke(InvocableHandlerMethod.java
:215)
at
org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerM
ethod.java:132)
at
org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHan
dle(ServletInvocableHandlerMethod.java:104)
at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandleM
ethod(RequestMappingHandlerAdapter.java:749)
at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleIntern
al(RequestMappingHandlerAdapter.java:690)
at
org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerM
ethodAdapter.java:83)
at org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:945)
at org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:876)
at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:961)
at org.springframework.web.servlet.FrameworkServlet.doPost(FrameworkServlet.java:863)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:660)
at org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:837)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:741)
at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:231
)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:166)
```

```
at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53)
at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:193)
)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:166)
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:199)
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:96)
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:140)
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:81)
at org.apache.catalina.valves.AbstractAccessLogValve.invoke(AbstractAccessLogValve.java:651)
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:87)
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:342)
at org.apache.coyote.http11.Http11Processor.service(Http11Processor.java:500)
at org.apache.coyote.AbstractProcessorLight.process(AbstractProcessorLight.java:66)
at org.apache.coyote.AbstractProtocol$ConnectionHandler.process(AbstractProtocol.java:754)
at org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.java:1376)
at org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java:49)
at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1142)
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:617)
at org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
at java.lang.Thread.run(Thread.java:745)
2019-05-15 23:53:12,254 [http-nio-8080-exec-2] INFO controller.LindosController - Invoked GET
/lcsSetupStatus
2019-05-15 23:53:12,256 [http-nio-8080-exec-2] INFO controller.LindosController - LCS Setup
Status = 0
```

步骤3.安置需要的安全供应商在ClassPath; `cp /opt/tomcat/webapps/Lindos/WEB-INF/lib/iaik_jce-5.1.jar /usr/lib/jvm/java/jre/lib/ext/`。

第 4 步 : 保证瓶子由其他模块是可读的; `chmod o+r /usr/lib/jvm/java/jre/lib/ext/iaik_jce-5.1.jar`。

步骤5.临时变量的存储java.security文件路径  
; `java_security=/usr/lib/jvm/java/jre/lib/security/java.security`。

步骤6.增量现有供应商优先级由; `perl -pi -e 's/^security.provider. (\d+)/"security.provider"'. .. ($1+1)/e $java_security`。

步骤7.插入IAIK作为在列表的第一个供应商(请注释退出换行符)的斜线; `SED -i '/security.provider.2/i \`

`security.provider.1=iaik.security.provider.IAIK $java_security`。

步骤8.更改的重新启动Tomcat为了生效用命令; `systemctl重新启动Tomcat`。

步骤9.注册有CSSM的卫星 , 并且 , 当在卫星的注册完成 , UI不能重新启动。

步骤10.折叠用于在端口443和8443的传输层安全(TLS)连接的两x509证书为了满足保密性增强版电子邮件(PEM)格式; `折叠- w 64 /drbd/certs/rails_ssl.crt > /drbd/certs/rails_ssl_folded.crt && mv /drbd/certs/rails_ssl_folded.crt /drbd/certs/rails_ssl.crt`

`折叠- w 64 /drbd/certs/pi_ssl.crt > /drbd/certs/pi_ssl_folded.crt && mv /drbd/certs/pi_ssl_folded.crt /drbd/certs/pi_ssl.crt`。

**Note:**请勿执行这些命令折叠以及入住另外线路 , 他们破坏64编码的PEM cert。

步骤11.Start nginx; `systemctl启动nginx`。

**Note:**如果UI不能在同步以后出现，则归结于更新/替换的这些certs。所以，步骤8-10将必须被重复。

在您遵从这些步骤后，请访问UI，并且您能看到与CSSM和最终注册的发表物同步是成功。

您能看到库存和准许许可证从VA映射的部分。您能注册聪明的产品实例到卫星。