

组网及说明

iMC&U-Center进行dbman数据恢复后, 或者进行环境升级后, 出现jserver进程启动异常

问题描述

iMC&U-Center进行dbman数据恢复后, 或者进行环境升级后, 出现jserver进程启动异常

过程分析

查看jserver进程日志, 日志存放路径: /iMC/client/log/imcforeground.log, 日志中存在如下报错

```

2020-12-02 17:56:41 [ERROR] [main] [com.imc.bootstrap.ApplicationContextLocator:loadAllSvcContext] load spring config files error,
files=/bngpp/iMC/client/conf/esseAppContext.xml, /bngpp/iMC/client/conf/commonThirdpartyAppContext.xml, /bngpp/iMC/client/conf/desktopAppContext.xml,
/bngpp/iMC/client/conf/dnAppContext.xml, /bngpp/iMC/client/conf/platAppContext.xml, /bngpp/iMC/client/conf/platImAppContext.xml, /bngpp/iMC/client/conf/resAppContext.xml,
/bngpp/iMC/client/conf/topAppContext.xml, /bngpp/iMC/client/conf/netconfAppContext.xml, /bngpp/iMC/client/conf/bdAppContext.xml,
/bngpp/iMC/client/conf/wsdmshibrowserAppContext.xml, /bngpp/iMC/client/conf/qsncfgAppContext.xml, /bngpp/iMC/client/conf/iccconfAppContext.xml,
/bngpp/iMC/client/conf/bdAppContext.xml, /bngpp/iMC/client/conf/dataCenterAppContext.xml]
org.springframework.beans.factory.config.BeanDefinition$ReferenceException: Could not find class [com.imc.res.sms.mainFunction.SendMsg] for bean with name "SendMsg" defined in file
[/bngpp/iMC/client/conf/commonThirdpartyAppContext.xml]: nested exception is java.lang.ClassNotFoundException: com.imc.res.sms.mainFunction.SendMsg
at org.springframework.beans.factory.support.AbstractBeanFactory.resolveBeanClass(AbstractBeanFactory.java:1281)
at org.springframework.beans.factory.support.AbstractBeanFactory.predictBeanType(AbstractBeanFactory.java:975)
at org.springframework.beans.factory.support.AbstractBeanFactory.isFactoryBean(AbstractBeanFactory.java:1350)
at org.springframework.beans.factory.support.AbstractBeanFactory.isFactoryBean(AbstractBeanFactory.java:916)
at org.springframework.beans.factory.support.DefaultListableBeanFactory.preInstantiateSingletons(DefaultListableBeanFactory.java:614)
at org.springframework.context.support.AbstractApplicationContext.finishBeanFactoryInitialization(AbstractApplicationContext.java:932)
at org.springframework.context.support.AbstractApplicationContext.refresh(AbstractApplicationContext.java:479)
at com.imc.bootstrap.ApplicationContextLocator.<init>(ApplicationContextLocator.java:196)
at com.imc.bootstrap.ApplicationContextLocator.loadAllSvcContext(ApplicationContextLocator.java:129)
at com.imc.bootstrap.ApplicationContextLocator.getInstance(ApplicationContextLocator.java:194)
at com.imc.bootstrap.ApplicationContextLocator.getServiceInstance(ApplicationContextLocator.java:123)
at com.imc.bootstrap.IMCServer.load(IMCServer.java:301)
at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethod)
at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.base/java.lang.reflect.Method.invoke(Method.java:566)
at com.imc.bootstrap.ServerStartup.load(ServerStartup.java:722)
at com.imc.bootstrap.ServerStartup.start(ServerStartup.java:556)
at com.imc.bootstrap.BootstrapProcess(Bootstrap.java:429)
at com.imc.bootstrap.BootstrapProcess(Bootstrap.java:139)
at com.imc.bootstrap.Bootstrap.main(Bootstrap.java:149)
Caused by: java.lang.ClassNotFoundException: com.imc.res.sms.mainFunction.SendMsg
at java.base/java.net.URLClassLoader.findClass(URLClassLoader.java:473)
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:588)
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:521)
at org.springframework.util.ClassUtils.forName(ClassUtils.java:266)
at org.springframework.beans.factory.support.AbstractBeanDefinition.resolveBeanClass(AbstractBeanDefinition.java:419)
at org.springframework.beans.factory.support.AbstractBeanFactory.doResolveBeanClass(AbstractBeanFactory.java:1352)
at org.springframework.beans.factory.support.AbstractBeanFactory.resolveBeanClass(AbstractBeanFactory.java:1273)
... 20 more

```

以上报错说明jserver进程在启动过程中加载iMC/client/conf目录下的commonThirdpartyAppContext.xml文件时找不到名称为SendMsg类, 导致jserver进程启动异常, 则需确认现场是否有进行过定制开发, 增加了相应定制开发程序启动时所需要使用的jar包。也可通过查看文件iMC/client/conf/commonThirdpartyAppContext.xml内容进行确认, 未进行过定制开发的iMC环境中的xml文件内容如下:

```

[root@localhost conf]# cat commonThirdpartyAppContext.xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:context="http://www.springframework.org/schema/context"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd" default-lazy-init="true">

<description>定义并初始化 第三方短信平台实现类。</description>

<!-- 示例。请按照以下格式增加第三方短信平台的实现类。添加在下方。 -->
<!-- <bean id="test" class="com.h3c.imc.res.Test"></bean> -->

<!-- Area edited by the user. -->

```

查看现场的xml文件发现, 在被注释的示例行中间存在一行关于SendMsg类信息的定义, 则说明现场进行过定制开发, 后续需跟定制开发确认相应的jar包信息及jar包存放路径, 对应放置即可。也可通过注释符的方式将SendMsg类的定义注释掉, 进行临时规避, 注释方法则为在需要注释的行前后增加符号:

```

[root@localhost conf]# cat commonThirdpartyAppContext.xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:context="http://www.springframework.org/schema/context"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd" default-lazy-init="true">

<description>定义并初始化 第三方短信平台实现类。</description>

<!-- 示例。请按照以下格式增加第三方短信平台的实现类。添加在下方。 -->
<!-- <bean id="test" class="com.h3c.imc.res.Test"></bean> -->

<!-- <bean id="SendMsg" class="com.imc.res.sms.mainFunction.SendMsg"></bean> -->

<!-- Area edited by the user. -->
</beans>

```

解决方法

1. 跟定制开发确认相应的jar包信息及jar包存放路径, 对应放置即可
2. 通过注释符的方式将SendMsg类的定义注释掉, 进行临时规避, 注释方法则为在需要注释的行前后增加符号:
3. 若以上方法无法解决现场问题, 可将jserver进程日志反馈至技术支持中心进行问题定位