



Best practices

Setting \$JAVA_HOME for Java SampleApp

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Contents

Setting \$JAVA_HOME for Java SampleApp	3
Set the Java path in the application profile	3
Set the Java path in run.sh	4
Notices	5
Trademarks	6

Setting \$JAVA_HOME for Java SampleApp

After following the steps in the Platform Symphony documentation to deploy the Java sample application, the application is not executed. The SIM log contains this message:

```
2013-11-14 03:42:26.032 GMT ERROR [30256:1126189408] sim.backend.ServiceBroker -
Code[S40004]: SimBasicSiAdaptor.cpp:1068 Domain <Application>: Failed to start the
service instance, service name
/opt/cluster_611/soam/deploy/SampleApplications/SOASamples/SampleServiceJava.v1/Runcom
.platform.symphony.samples.SampleApp.service.MyService.sh. The service startCmd
command specified in the Application Profile terminated unexpectedly with exit code:
127 State:Exit. In your Application Profile, verify if any of the following issues
exist:
- Ensure that any dependent libraries for your services can load.
- On Windows, if the startCmd includes arguments and file paths with spaces, ensure
that the startCmd is enclosed within double-quotation (&quot;) marks.
- On Unix, ensure that LD_LIBRARY_PATH is defined correctly.
For more information, refer to the Why won't my service start topic in the FAQs.
```

One possible reason for this error is that the service of the SampleApp cannot find an available JVM to run the Java service instance.

Set the Java path in the application profile

To resolve the problem, set the Java path in the \$PATH environment variable in the application profile. For example:

```
<Service>
  <osTypes>
    <osType name="all" ...>
      <!-- If your default environment does not point to the correct JRE,
           please add the directory that contains the Java binary to the
           PATH environment variable below.

           For example:
           <env name="PATH">/usr/bin/jdk1.5.0_04_x86/bin</env>

           This will append the directory you specify to the front of your existing
           $PATH environment variable.
      -->
      <env name="PATH">/usr/bin/jdk1.5.0_04_x86/bin</env>
    </osType>
  </osTypes>
</Service>
```

Set the Java path in run.sh

Check and modify *Runcom.platform.symphony.samples.SampleApp.service.MyService.sh*; set java path in the shell script. For example:

From:

```
java -classpath $JAVA_SDK_JARFILE:$SOAM_APP_JARFILES:$SOAM_APP_DEP_JARFILES  
$JVM_OPTIONS $SOAM_SERVICE_MAINCLASS
```

To:

```
JAVA_HOME=/usr/bin/jdk1.5.0_04_x86  
$JAVA_HOME/bin/java -classpath  
$JAVA_SDK_JARFILE:$SOAM_APP_JARFILES:$SOAM_APP_DEP_JARFILES $JVM_OPTIONS  
$SOAM_SERVICE_MAINCLASS
```

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