

How to run Camel in a osgi container

Run Camel With ServiceMix Kernel

Apache [ServiceMix Kernel](#) is a small OSGi based runtime which provides a lightweight container onto which various bundles can be deployed. Now you can deploy your route rule into it to leverage the power of OSGi.

Other guides

For further details see the [ServiceMix Kernel Quick Start Guide](#) and this [great tutorial on using Camel in any OSGi container](#).

An example: to convert ServiceMix Kernel into an Apache Camel route container, we type these commands in the kernel's console to install the basic required bundles:

```
osgi install -s mvn:org.apache.geronimo.specs/geronimo-activation_1.1_spec/1.0.2
osgi install -s
mvn:org.apache.servicemix.specs/org.apache.servicemix.specs.stax-api-1.0/1.1.0
osgi install -s
mvn:org.apache.servicemix.specs/org.apache.servicemix.specs.jaxb-api-2.1/1.1.0
osgi install -s
mvn:org.apache.servicemix.bundles/org.apache.servicemix.bundles.jaxb-impl/2.1.6_1
```

And these commands for the Camel related bundles:

```
osgi install -s mvn:org.apache.camel/camel-core/1.5.0
osgi install -s mvn:org.springframework/spring-tx/2.5.5
osgi install -s mvn:org.apache.camel/camel-spring/1.5.0
osgi install -s mvn:org.apache.camel/camel-osgi/1.5.0
```

This will get the bundles from a local or remote Maven repository, install and start them. Once this is done, you can just create a simple XML file containing the route definitions in the deploy and kernel's file monitor will install and deploy them. You can check the log file with the `log d` command and to see the route in action.

```
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="
    http://www.springframework.org/schema/beans
      http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
    http://activemq.apache.org/camel/schema/spring
      http://activemq.apache.org/camel/schema/spring/camel-spring.xsd">

  <camelContext xmlns="http://activemq.apache.org/camel/schema/spring">
    <route>
      <from uri="timer://myTimer?fixedRate=true&period=2000"/>
      <to uri="log:demo?showBodyType=false"/>
    </route>
  </camelContext>

</beans>
```

See Also

- [ServiceMix Kernel quick start guide](#)
- [Great tutorial on OSGi with Camel](#)