

Servlet Tomcat Example

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Available as of Camel 2.7

This example is located in the `examples/camel-example-servlet-tomcat` directory of the Camel distribution. There is a `README.txt` file with instructions how to run it.

If you use maven then you can easily package the example from the command line:

```
mvn package
```

About

This example demonstrates how you can use [Servlet](#) to expose a http service in a Camel route.

Implementation

In the `web.xml` file in the `src/main/webapp/WEB-INF` folder the `CamelServlet` is defined. This is mandatory to do when using the [Servlet](#) component. Error rendering macro 'code': Invalid value specified for parameter 'java.lang.NullPointerException'

```
<web-app version="2.4" xmlns="http://java.sun.com/xml/ns/j2ee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd">

  <display-name>My Web Application</display-name>

  <!-- location of spring xml files -->
  <context-param>
    <param-name>contextConfigLocation</param-name>
    <param-value>classpath:camel-config.xml</param-value>
  </context-param>

  <!-- the listener that kick-starts Spring -->
  <listener>
    <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
  </listener>

  <!-- Camel servlet -->
  <servlet>
    <servlet-name>CamelServlet</servlet-name>
    <servlet-class>org.apache.camel.component.servlet.CamelHttpTransportServlet</servlet-class>
    <load-on-startup>1</load-on-startup>
  </servlet>

  <!-- Camel servlet mapping -->
  <servlet-mapping>
    <servlet-name>CamelServlet</servlet-name>
    <url-pattern>/camel/*</url-pattern>
  </servlet-mapping>

</web-app>
```

The route is a simple [Content Based Router](#) defined in the DSL XML as shown: Error rendering macro 'code': Invalid value specified for parameter 'java.lang.NullPointerException'

```

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

  <camelContext xmlns="http://camel.apache.org/schema/spring">

    <route id="helloRoute">
      <!-- incoming requests from the servlet is routed -->
      <from uri="servlet:hello"/>
      <choice>
        <when>
          <!-- is there a header with the key name? -->
          <header>name</header>
          <!-- yes so return back a message to the user -->
          <transform>
            <simple>Hi I am ${sysenv.HOSTNAME}. Hello ${header.name} how are you today?</simple>
          </transform>
        </when>
        <otherwise>
          <!-- if no name parameter then output a syntax to the user -->
          <transform>
            <constant>Add a name parameter to uri, eg ?name=foo</constant>
          </transform>
        </otherwise>
      </choice>
    </route>

  </camelContext>

</beans>

```

Running the example

This example runs in Apache Tomcat, so you will have to package the .war file and copy it to the `webapp` folder of Tomcat, which is the hot deploy folder.

There is a main page at: <http://localhost:8080/camel-example-servlet-tomcat> which has more instructions.

You can then use a web browser and send a request to the <http://localhost:8080/camel-example-servlet-tomcat/camel/hello> url.

See Also

- [Examples](#)
- [Servlet](#)
- [HTTP](#)