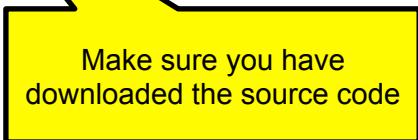




# Clickthrough – Fuse Integration

Kapil Shukla

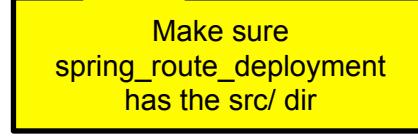
```
kapil@Kapils-MacBook-Air:fusion-integration$ ls  
LICENSE README.md eap/ pom.xml  
kapil@Kapils-MacBook-Air:fusion-integration$
```



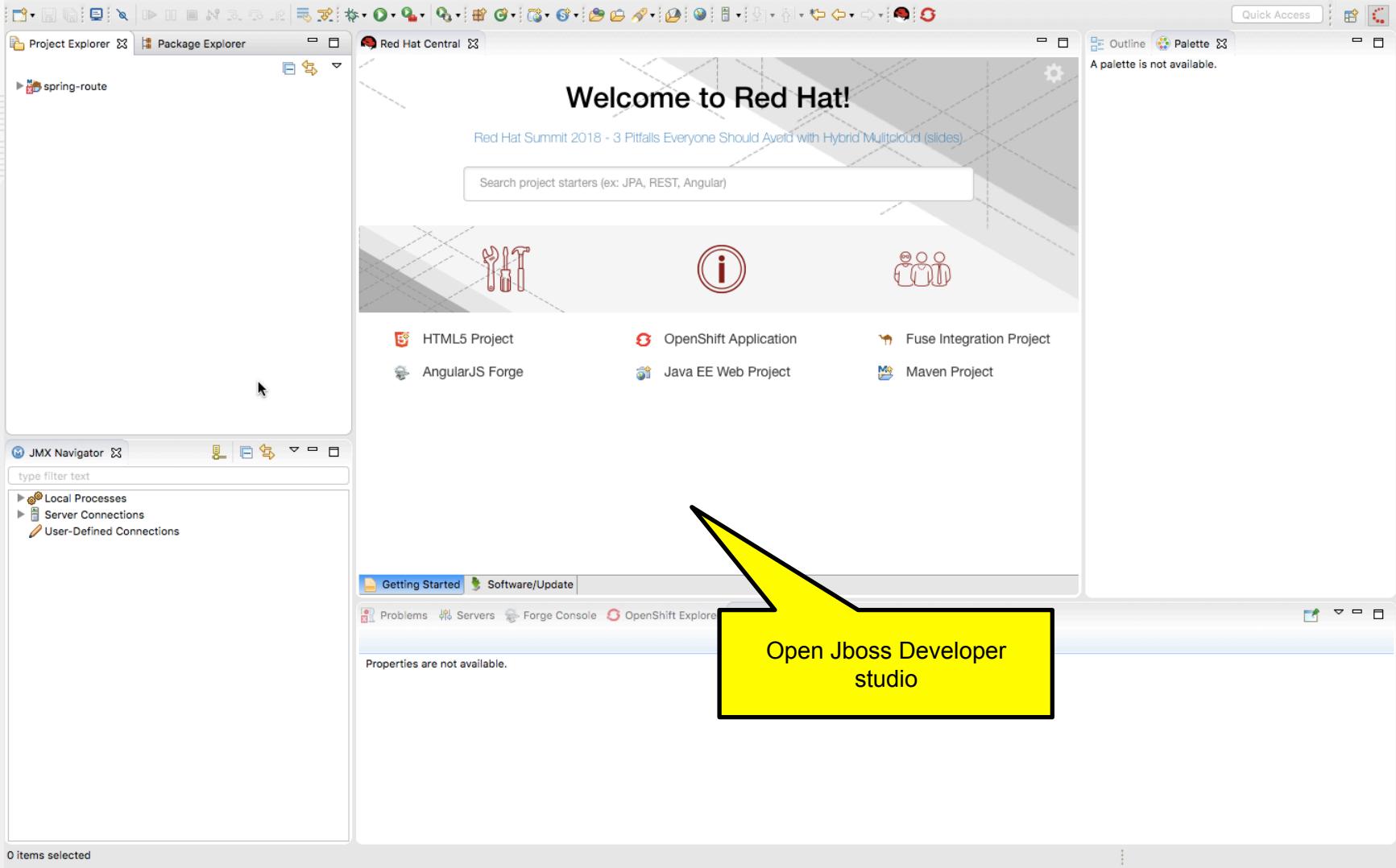
Make sure you have  
downloaded the source code

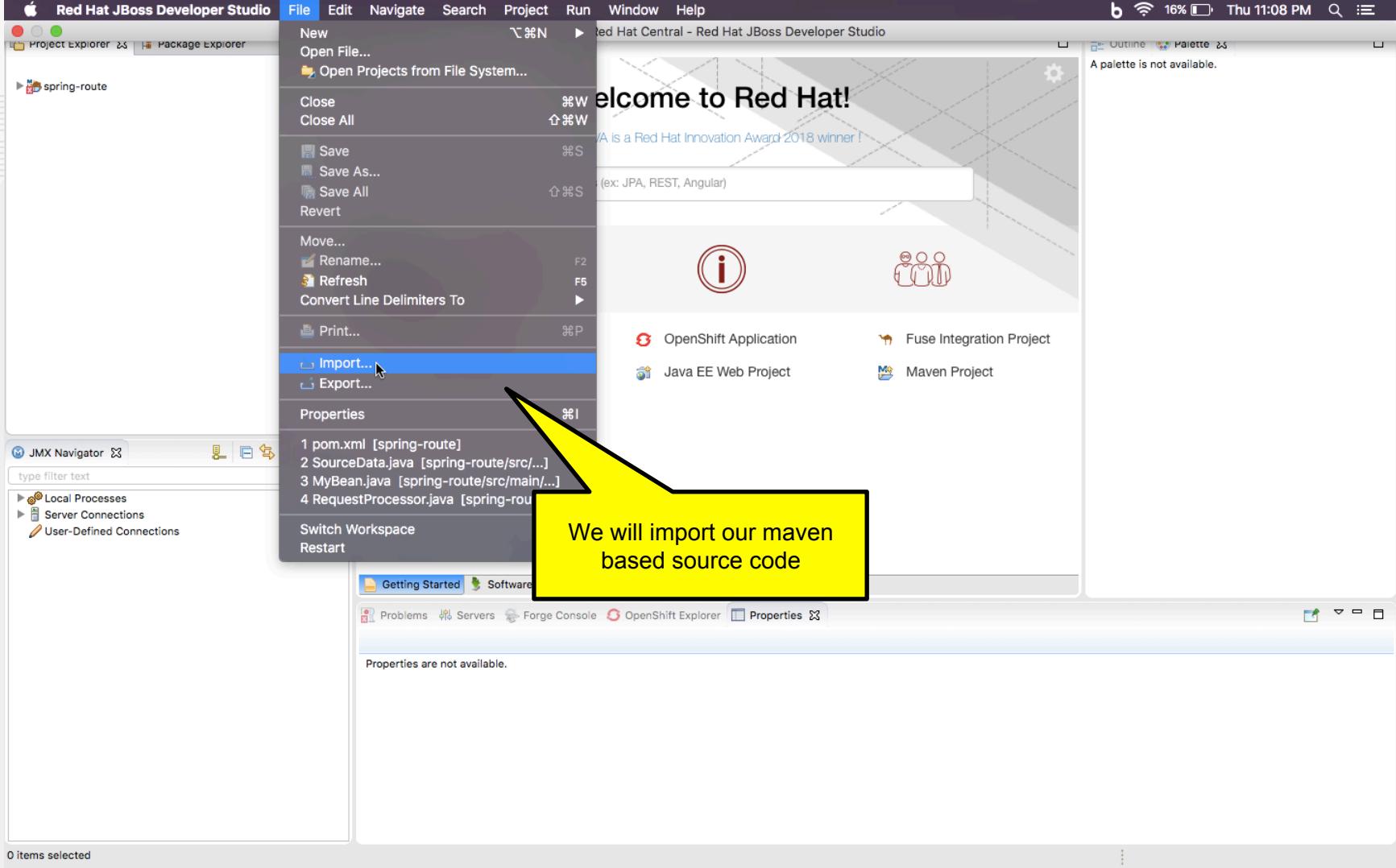
```
..._route_deployment — vim ..../parent/pom.xml    .../fuse/jboss-eap-6.4 — java * standalone.sh    ...tion/eap/spring_route_deployment — -bash    ~/workspace/spring-route — -bash    ...ownloads/github/fuse-integration — -bash
```

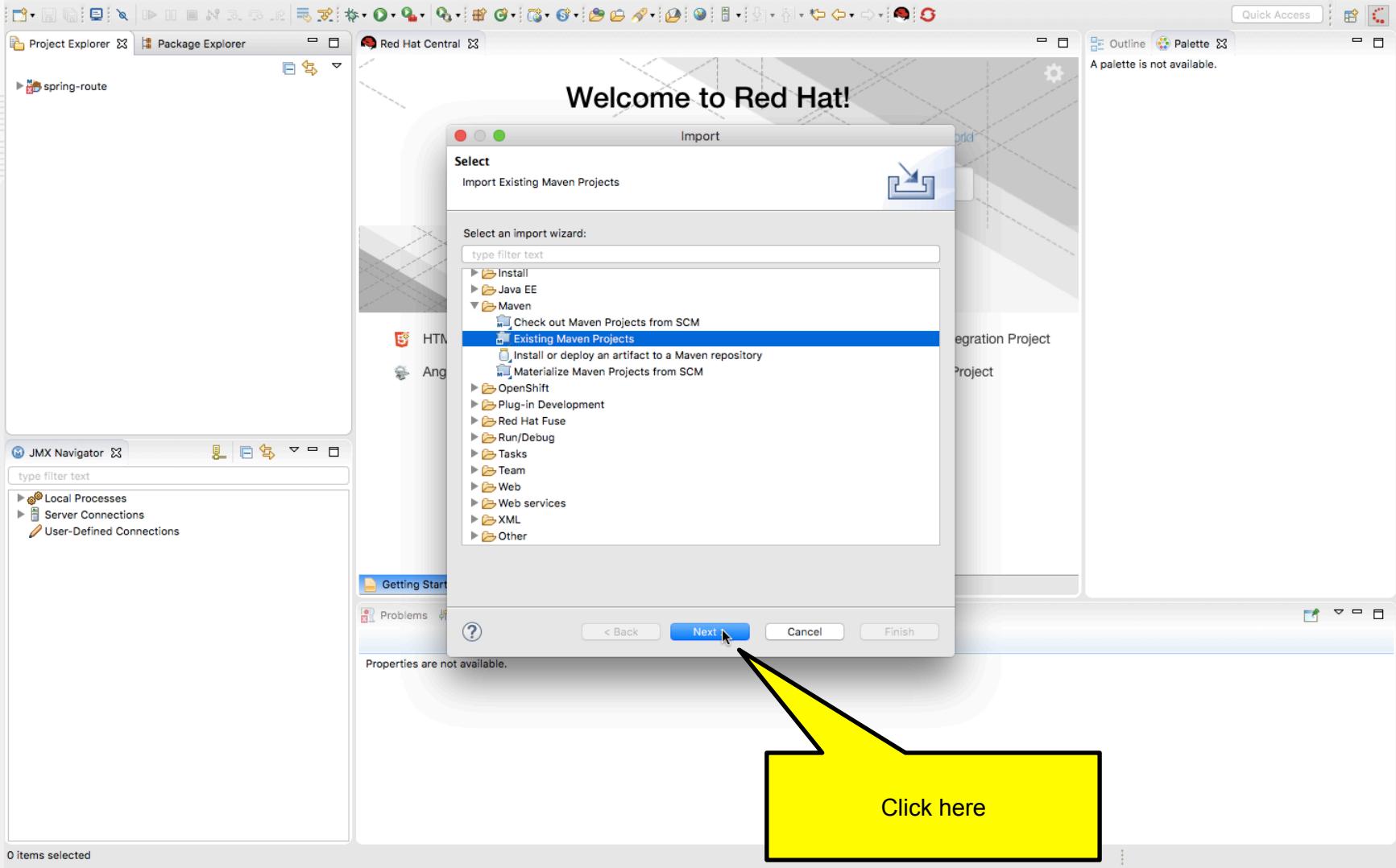
```
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$ ls eap/spring_route_deployment/  
README.md pom.xml      src/  
kapil@Kapils-MacBook-Air: fuse-integration$
```

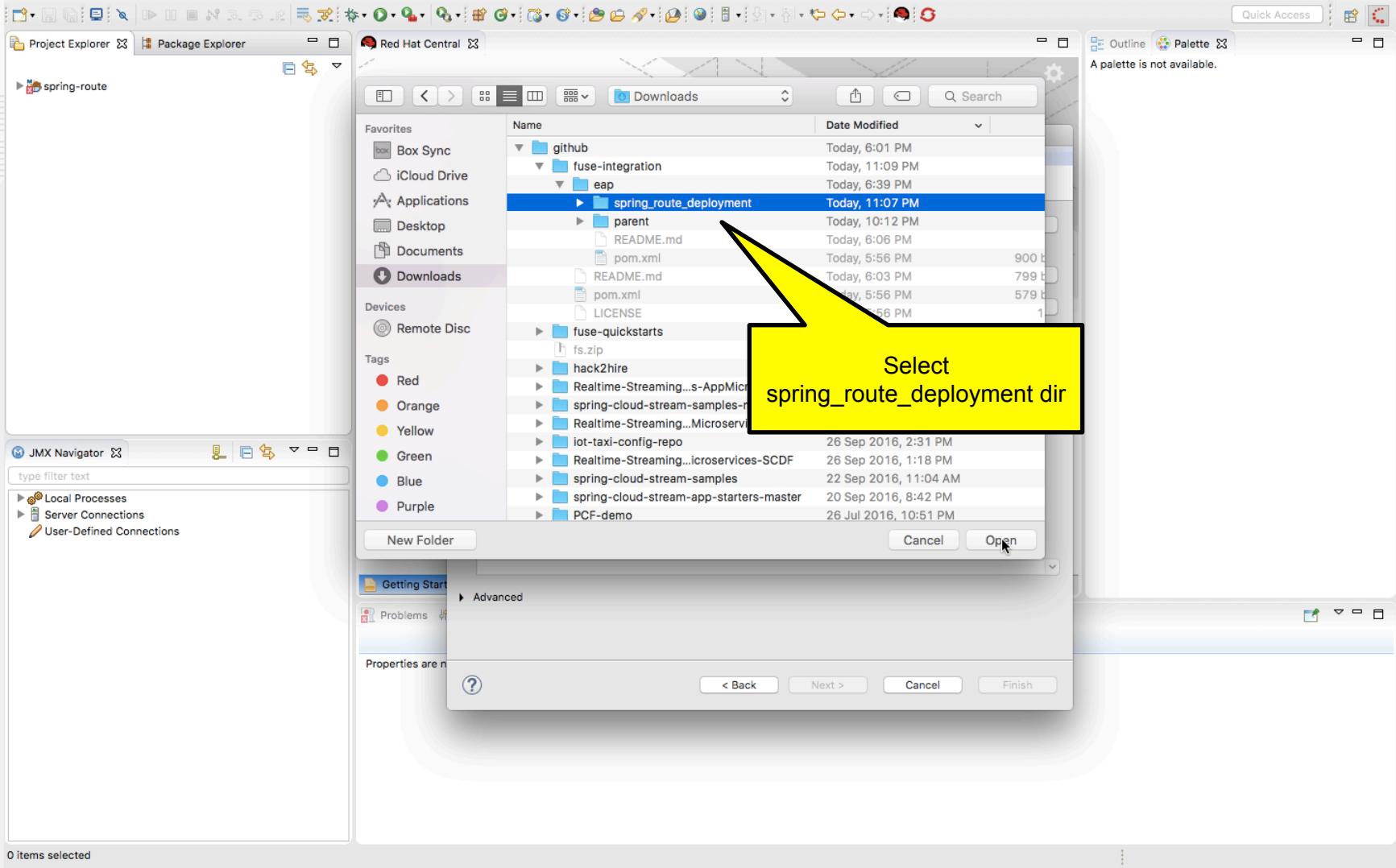


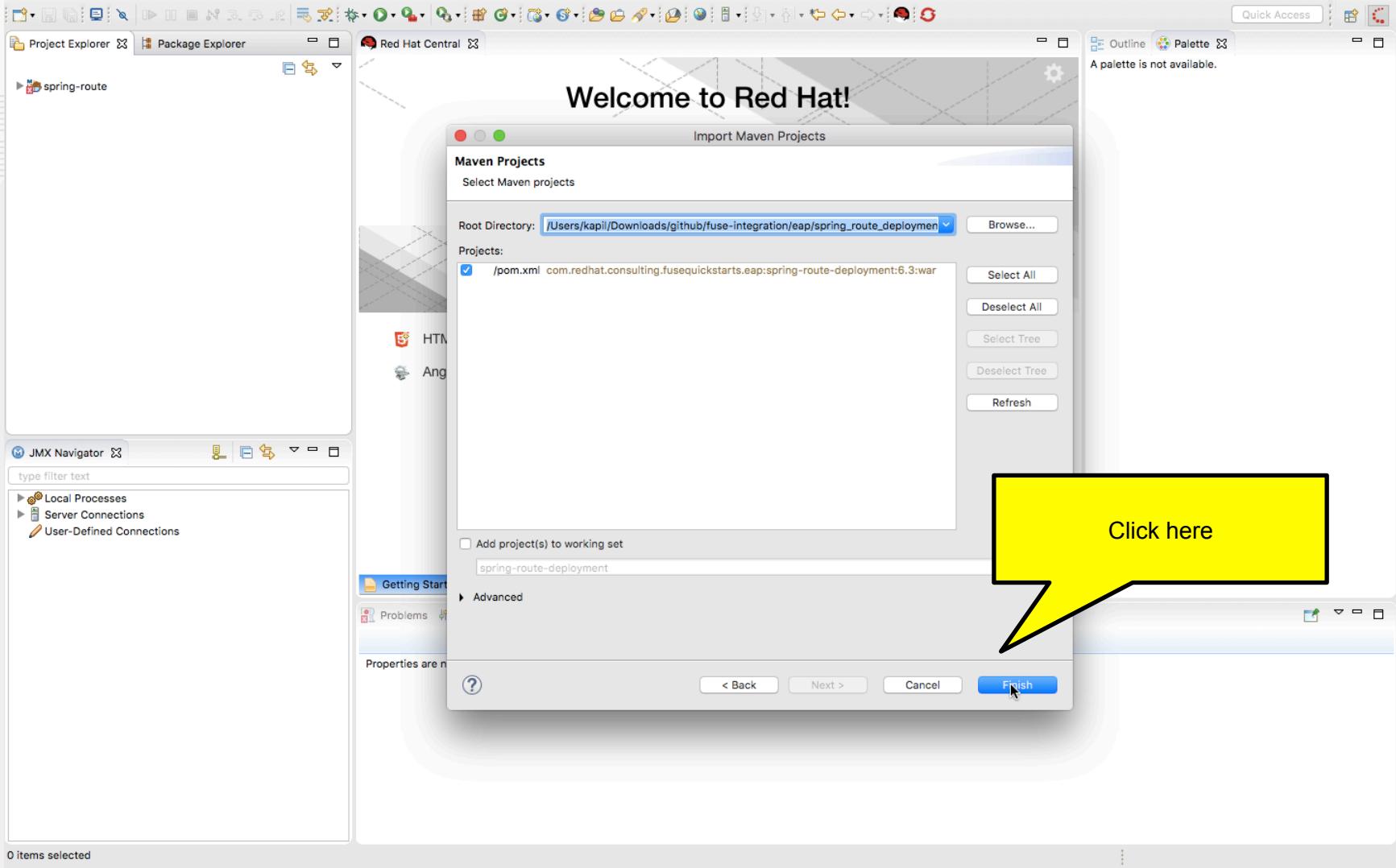
Make sure  
spring\_route\_deployment  
has the src/ dir

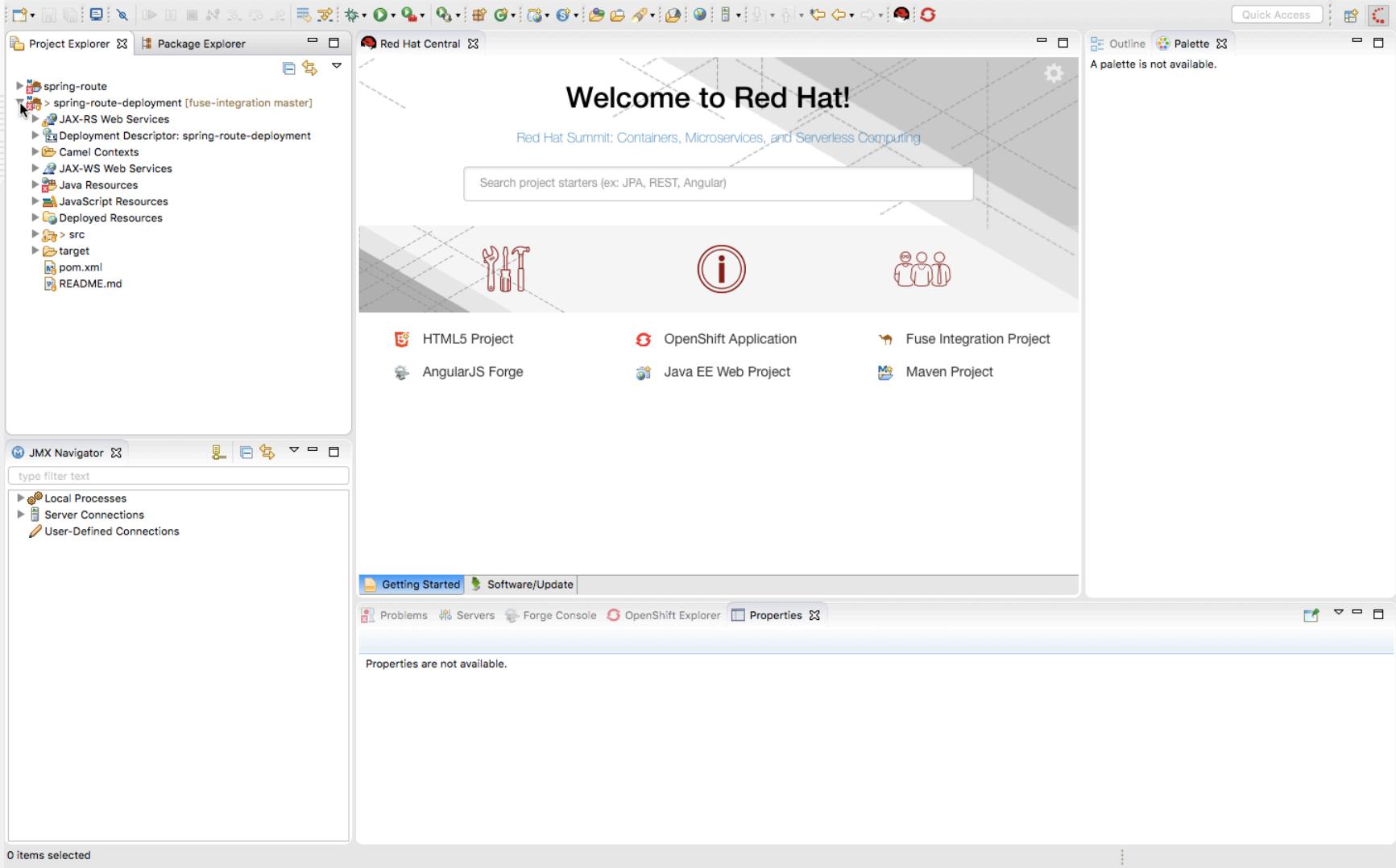


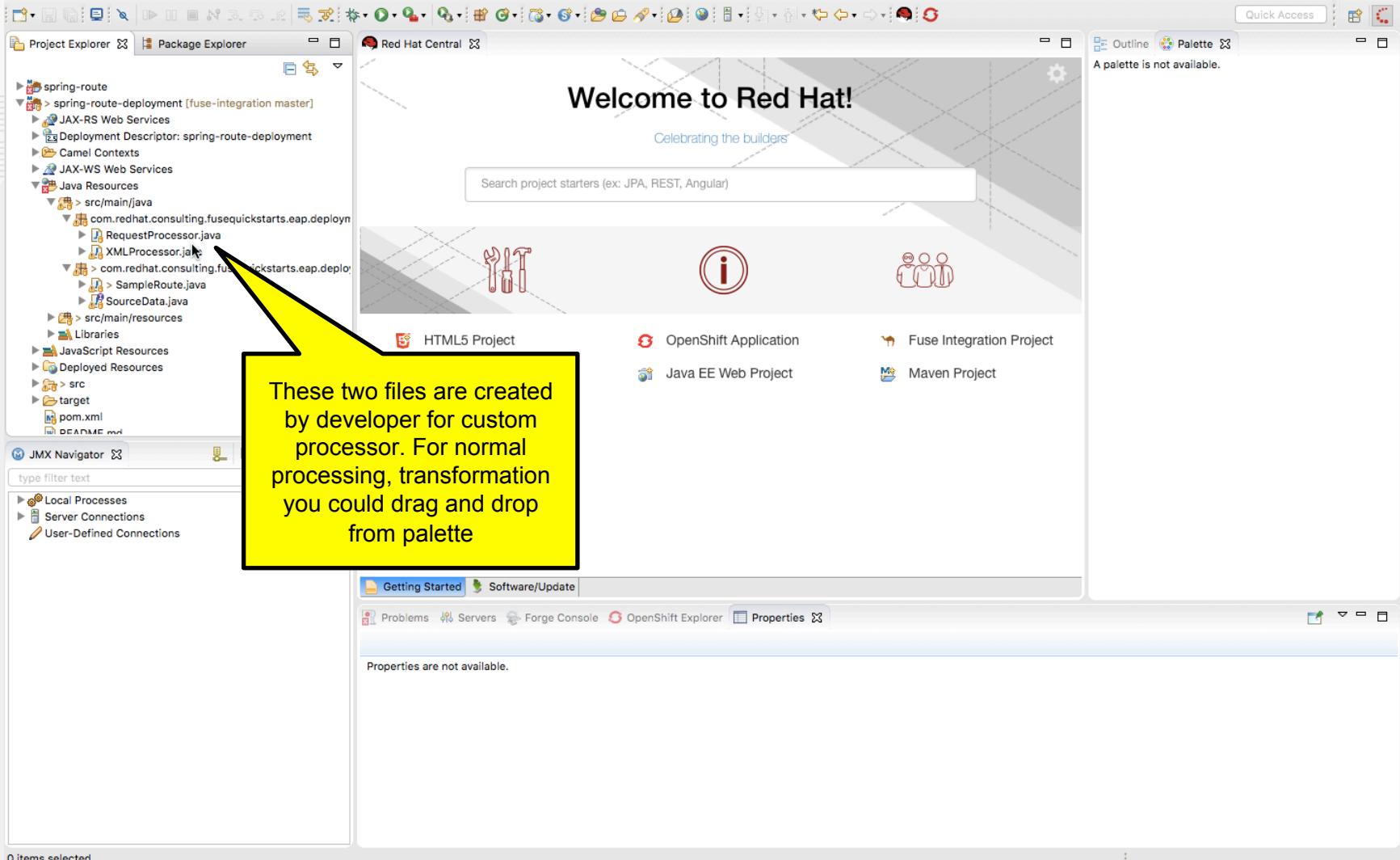


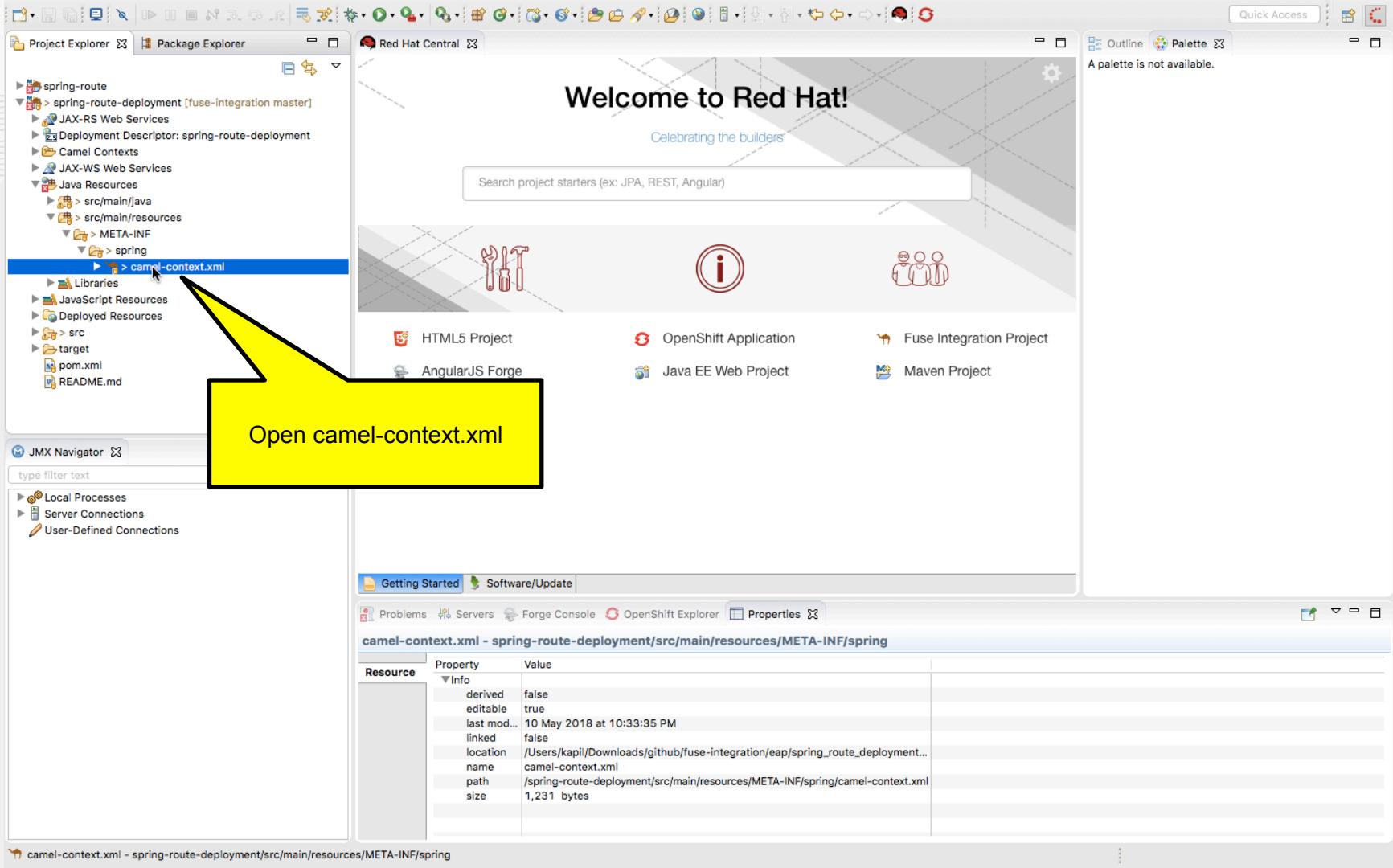


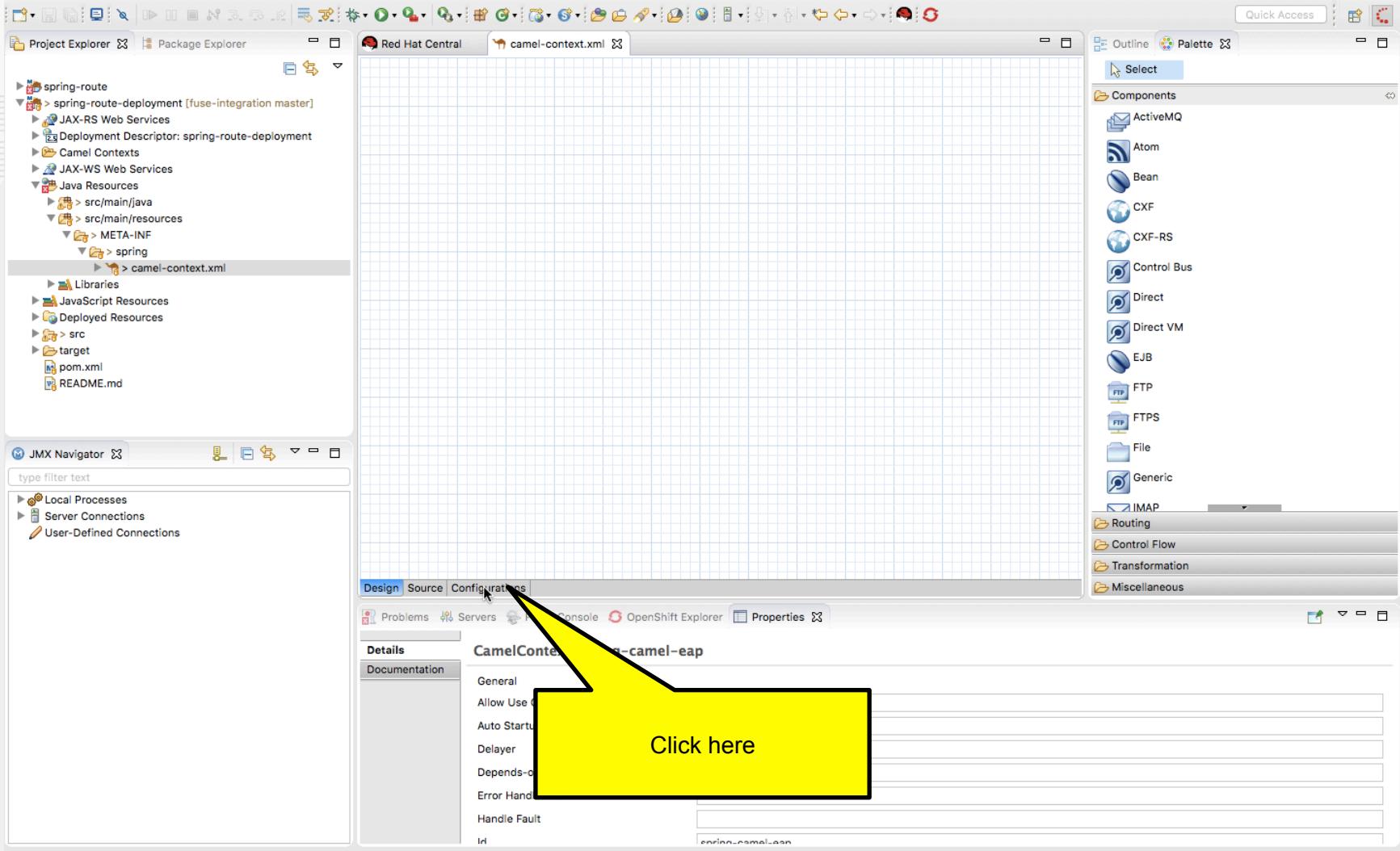


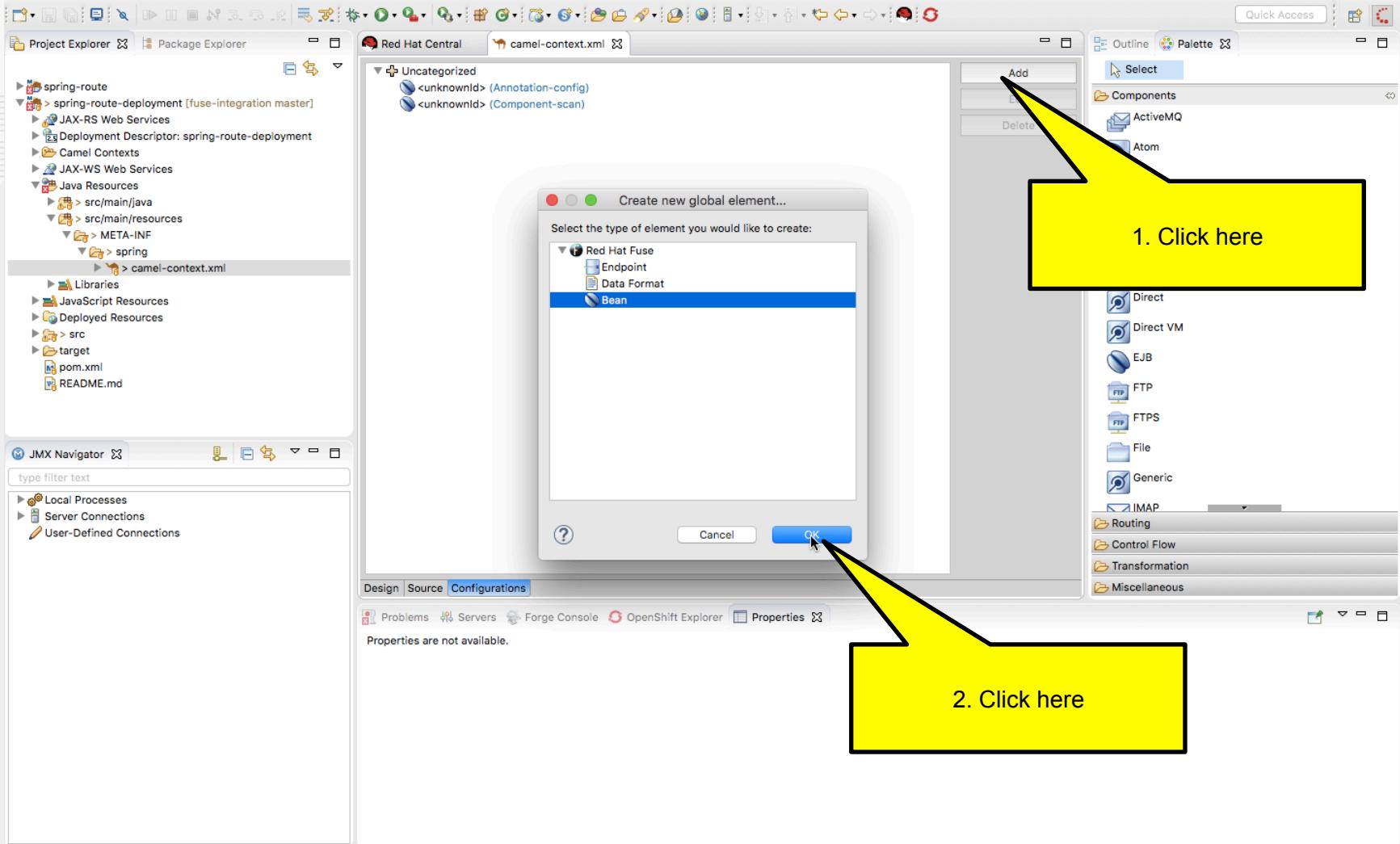


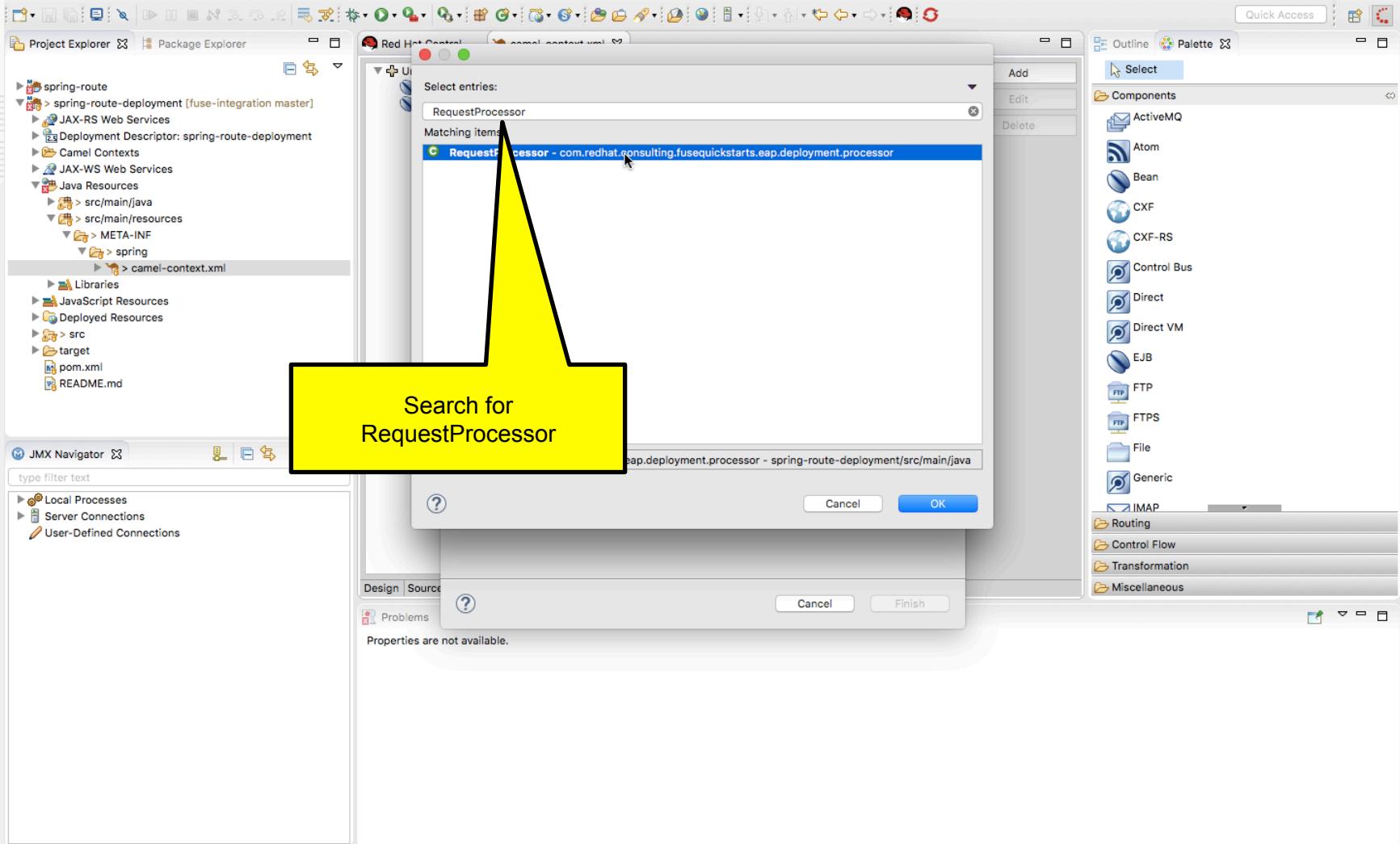


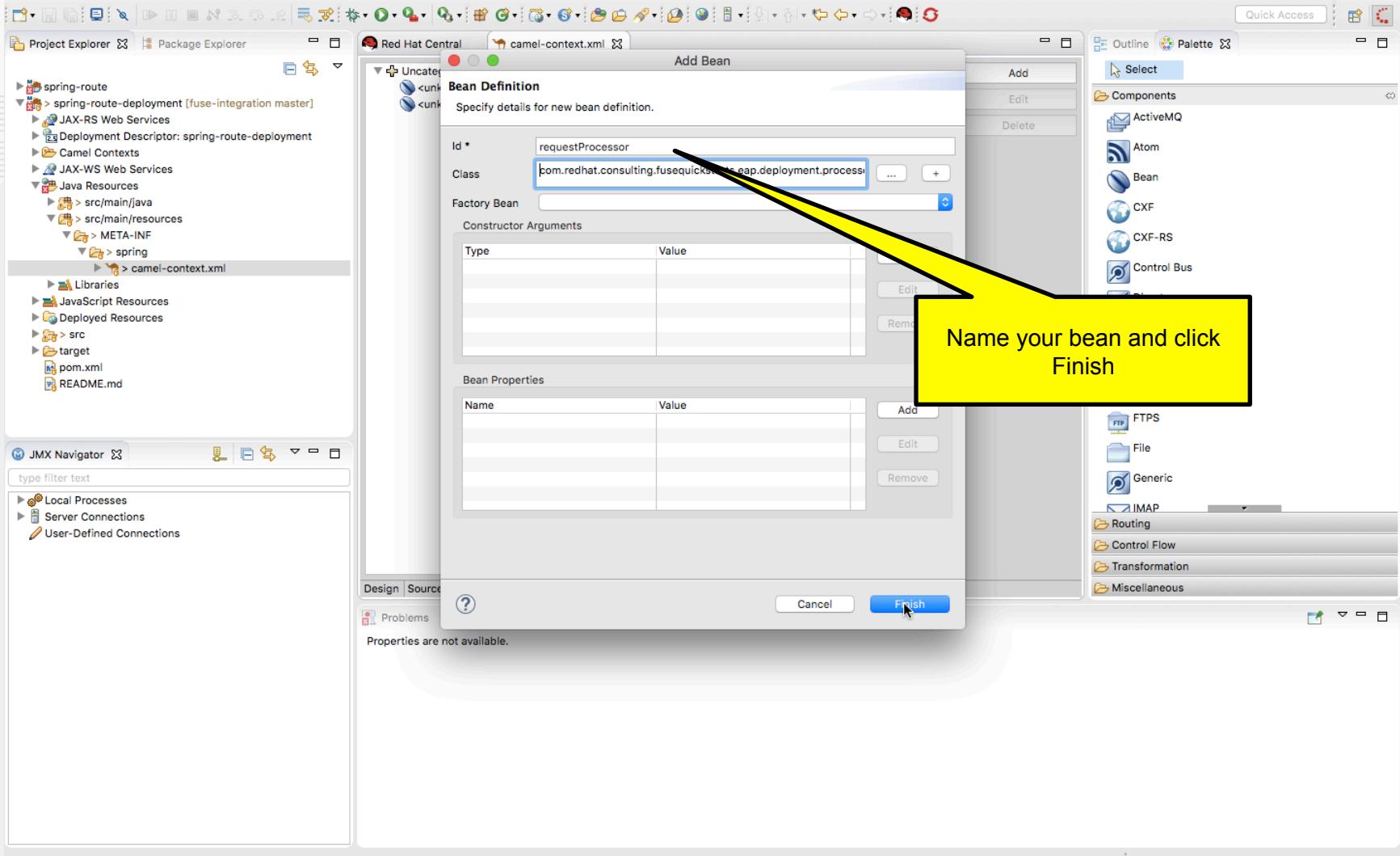


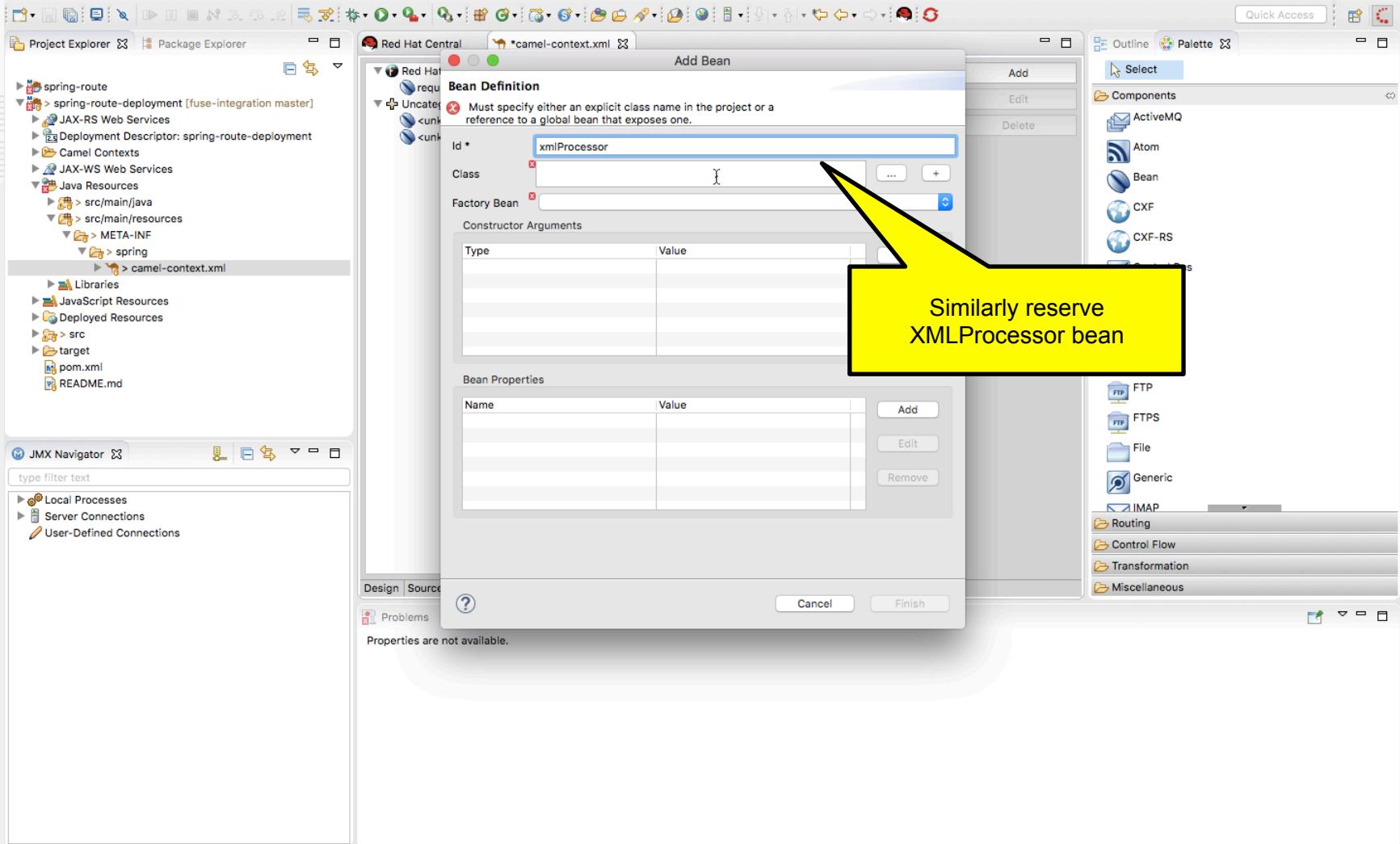


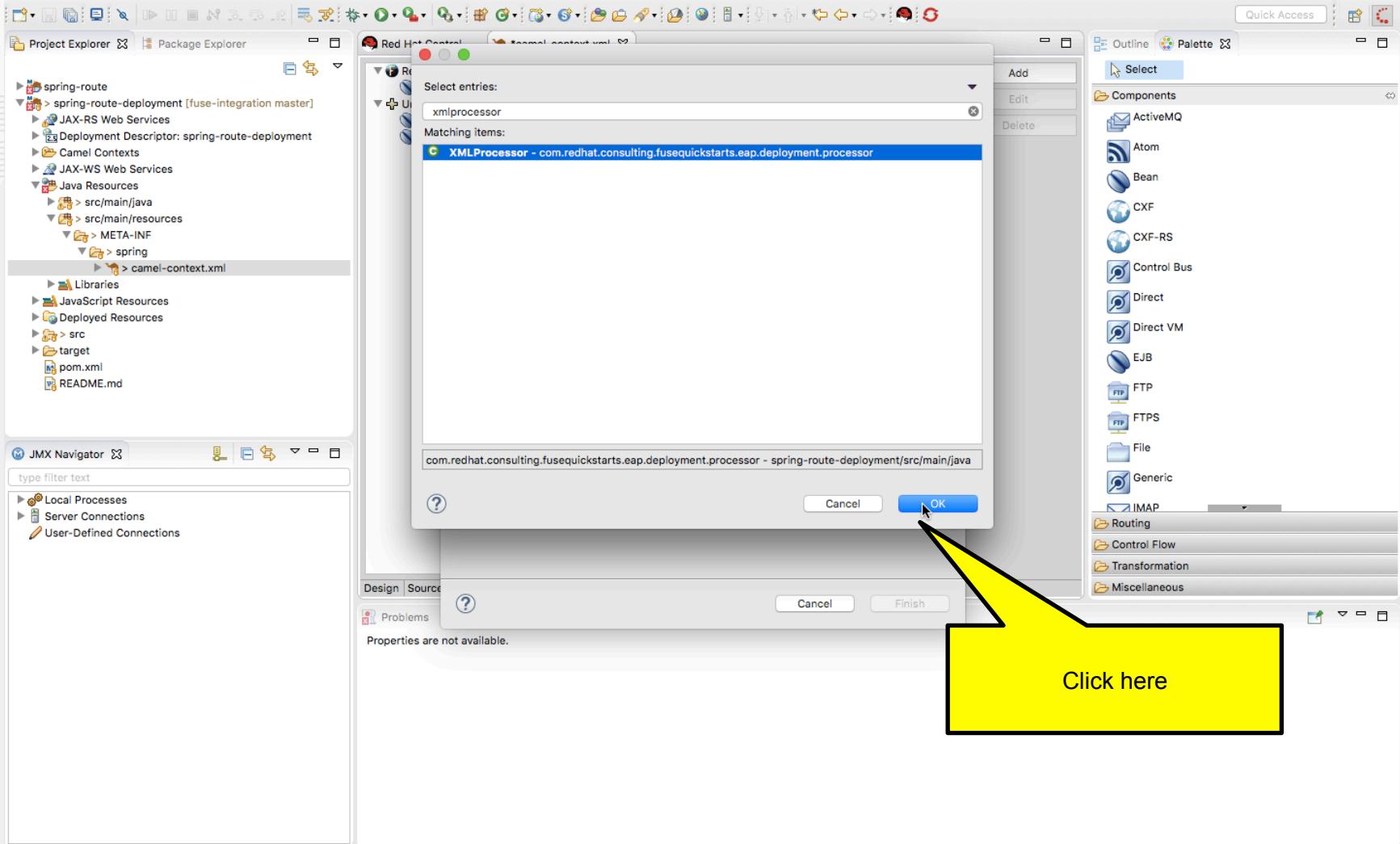


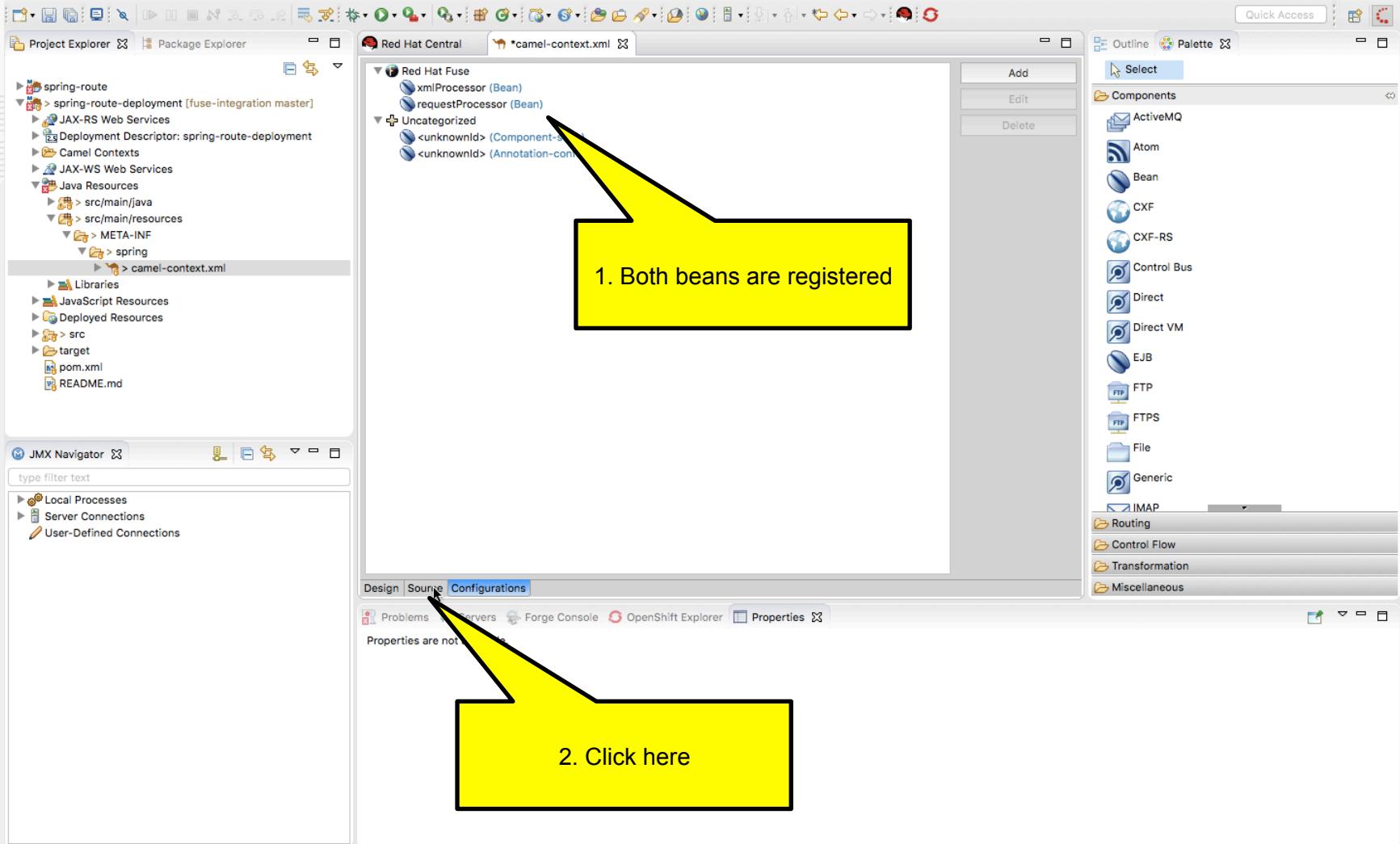












1. Both beans are registered

2. Click here

Quick Access

Project Explorer   Package Explorer

Red Hat Central \* camel-context.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:camel="http://camel.apache.org/schema/spring"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:cxf="http://camel.apache.org/schema/cxf"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.spring
<bean
    class="com.redhat.consulting.fusequickstarts.eap.deployment.processor.XMLProcessor"
    id="xmlProcessor" scope="singleton"/>
<bean
    class="com.redhat.consulting.fusequickstarts.eap.deployment.processor.RequestProcessor"
    id="requestProcessor" scope="singleton"/>
<!-- The context scan and annotation config elements allow the use of the Component annotation to pic
<context:annotation-config/>
<context:component-scan base-package="com.redhat.consulting.fusequickstarts.eap.deployment.route"/>
<camel:camelContext id="spring-camel-eap" xmlns="http://camel.apache.org/schema/spring">
    <contextScan/>
</camel:camelContext>
</beans>
```

Outline   Palette

Select

Components

- ActiveMQ
- Atom
- Bean
- CXF
- CXF-RS
- Control Bus
- Direct
- Direct VM
- EJB
- FTP
- FTPS
- File
- Generic

Routing

Control Flow

Transformation

Miscellaneous

JMX Navigator

Local Processes

Server Connections

User-Defined Connections

Design   Source   Configurations

Properties

Properties are not available.

beans/#text

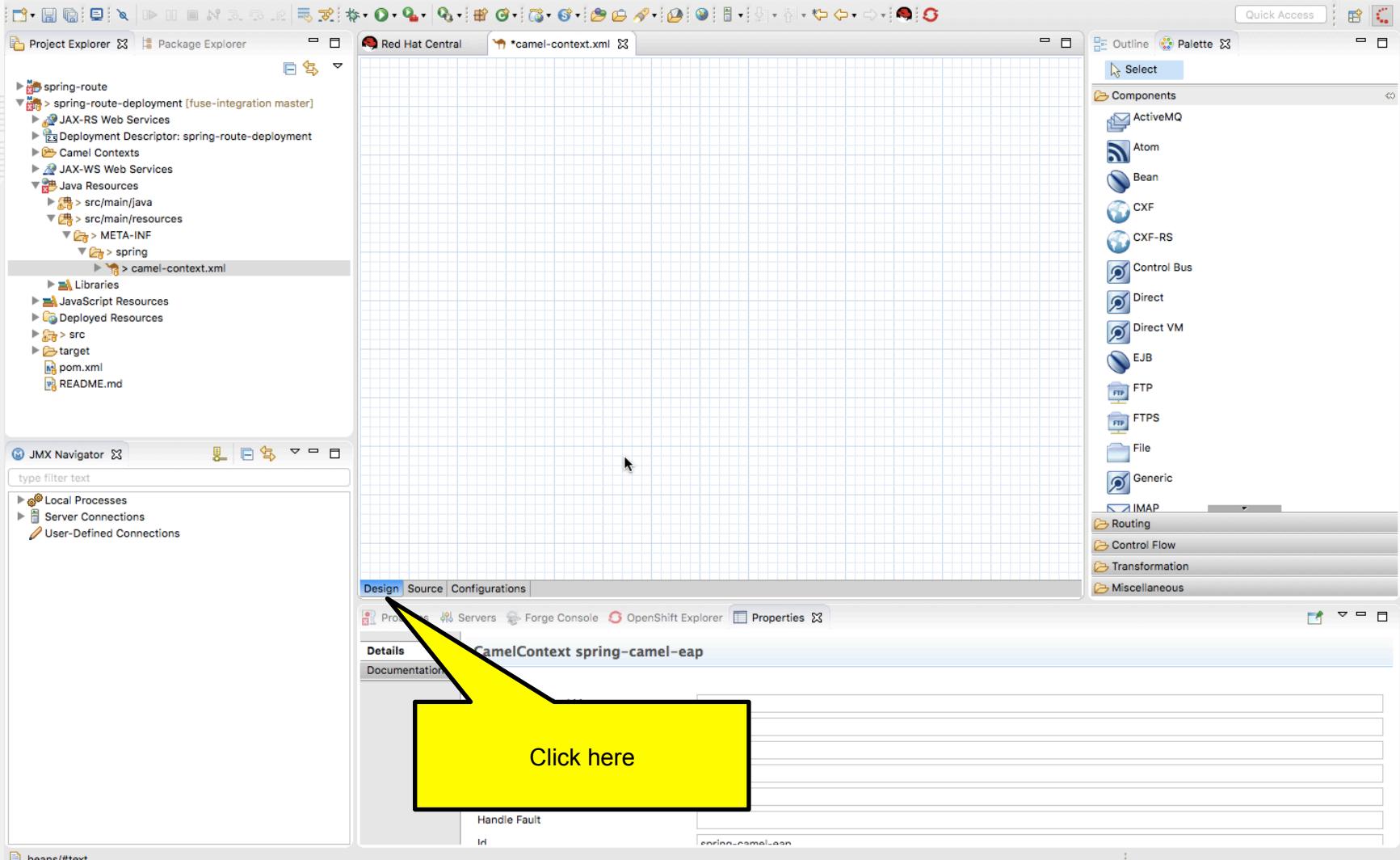
The screenshot shows the Red Hat JBoss Developer Studio interface with the 'Red Hat Central' perspective selected. The central workspace displays the XML file `camel-context.xml`. The code defines a Spring-based Camel context with various beans, including a `RequestProcessor` and a `SourceData` service. A specific section of the code is highlighted with a blue background:

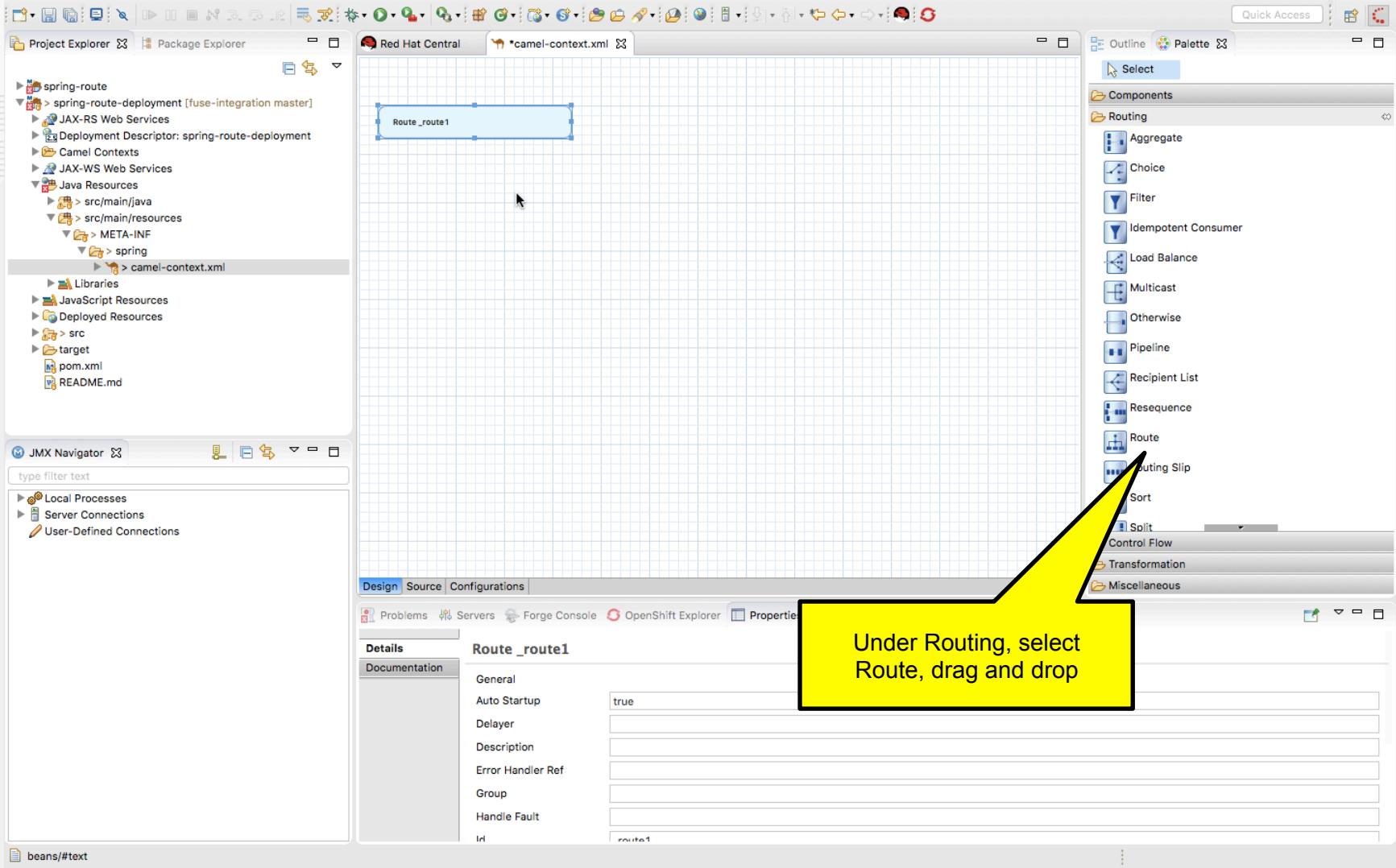
```
<!-- RS Client for requests to endpoint -->
<cxfrsClient address="http://freegeoip.net" id="rsClient"
    loggingFeatureEnabled="true"
    serviceClass="com.redhat.consulting.fusequickstarts.eap.deployment.route.SourceData"/>
```

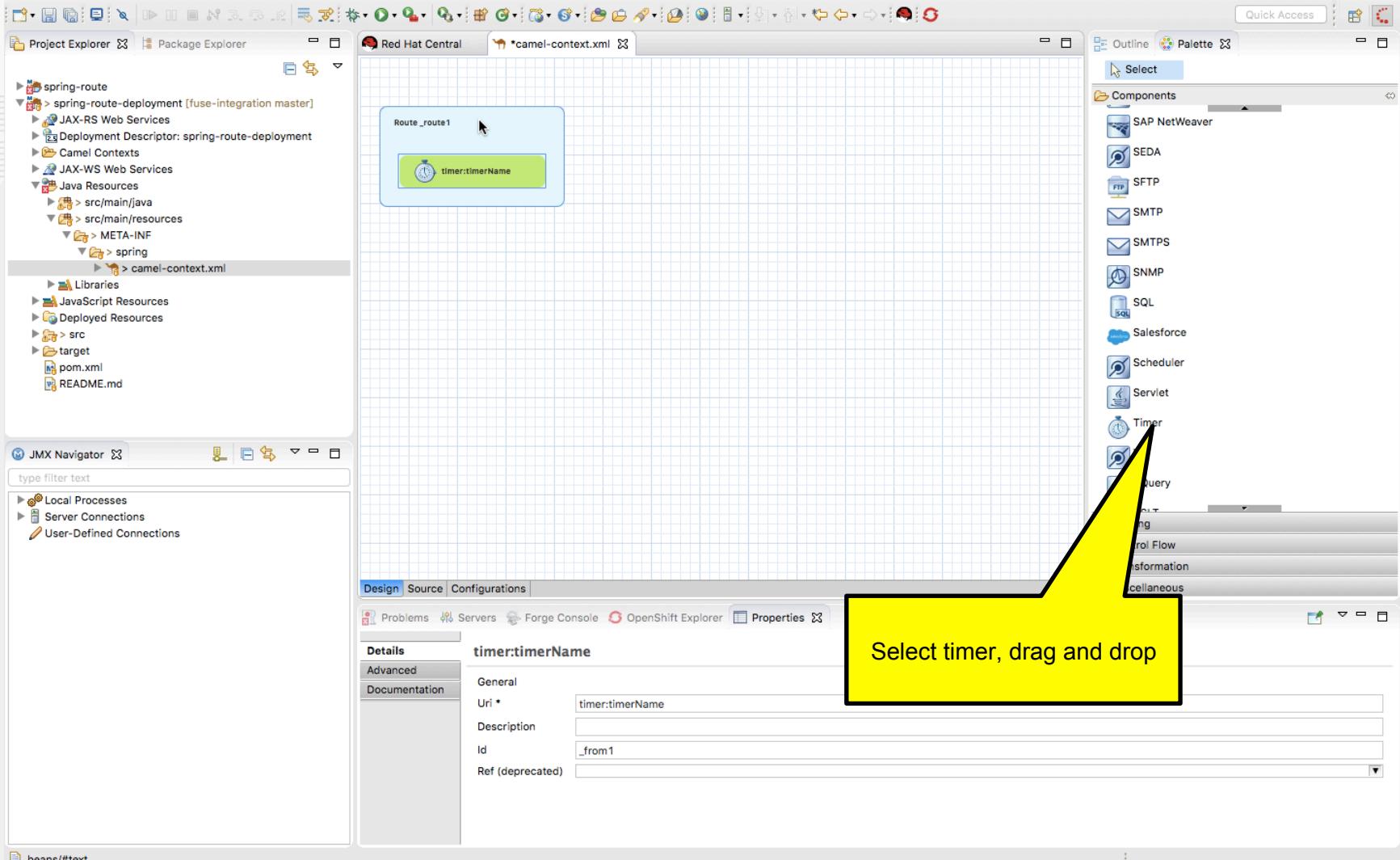
The right-hand side of the interface features the 'Palette' view, which is currently set to the 'Select' tab. The 'Components' section is expanded, showing a list of available components categorized under 'Routing', 'Control Flow', 'Transformation', and 'Miscellaneous'. Components listed include ActiveMQ, Atom, Bean, CXF, CXF-RS, Control Bus, Direct, Direct VM, EJB, FTP, FTPS, File, Generic, IMAP, Routing, Control Flow, Transformation, and Miscellaneous.

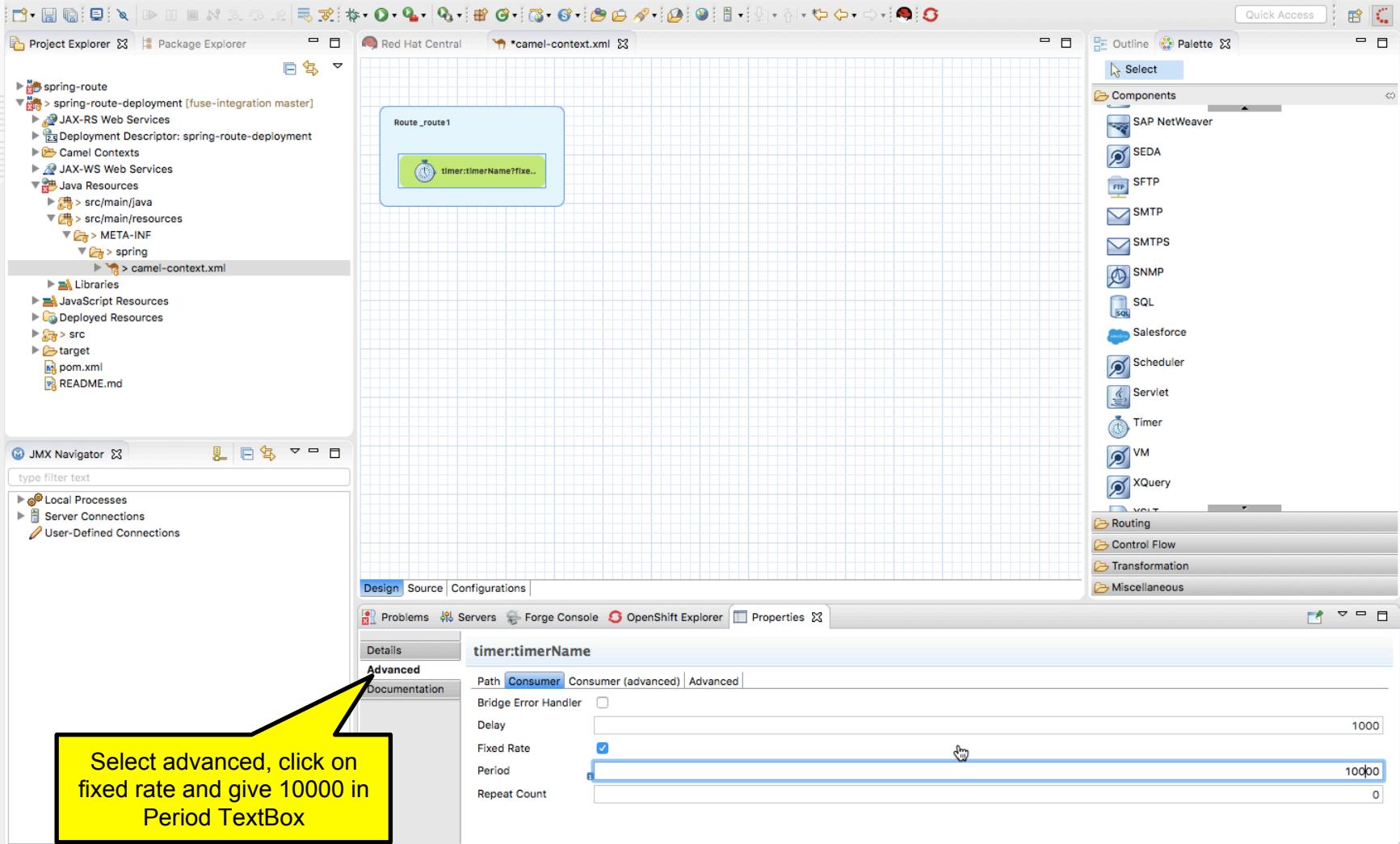
Register this

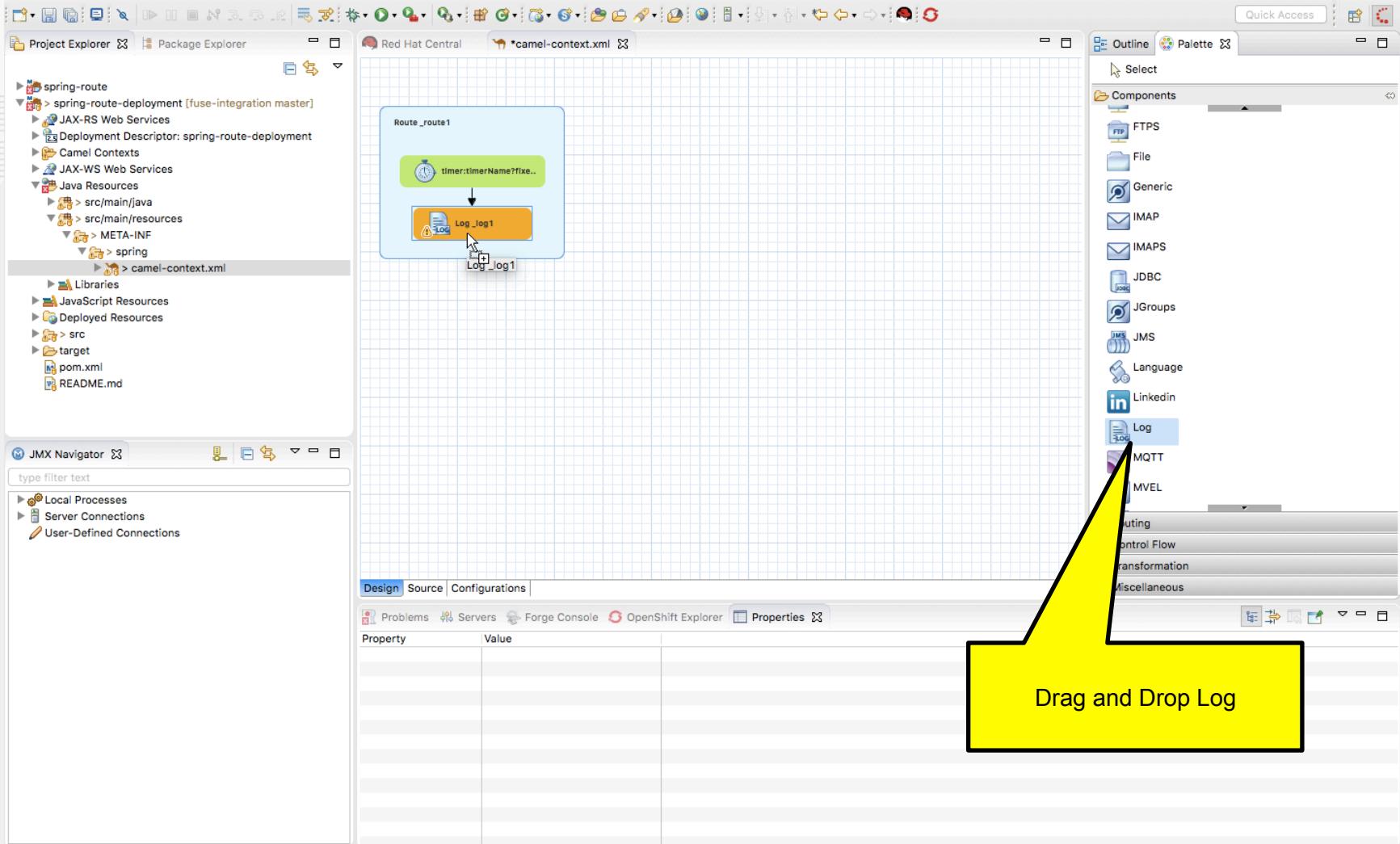
<!-- RS Client for requests to endpoint -->  
<cxfrsClient address="http://freegeoip.net" id="rsClient"  
    loggingFeatureEnabled="true"  
    serviceClass="com.redhat.consulting.fusequickstarts.eap.deployment.route.SourceData"/>











Project Explorer   Package Explorer   Red Hat Central   \*camel-context.xml

spring-route  
spring-route-deployment [fuse-integration master]  
JAX-RS Web Services  
Deployment Descriptor: spring-route-deployment  
Camel Contexts  
JAX-WS Web Services  
Java Resources  
src/main/java  
src/main/resources  
META-INF  
spring  
camel-context.xml  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
pom.xml  
README.md

Route \_route

```
graph TD; T1[timer:timerName?fixe..] --> Log[Log]
```

JMX Navigator

Local Processes  
Server Connections  
User-Defined Connections

Design   Source   Configurations

Problems   Servers   Forge Console   OpenShift Explorer   Properties

Log

General

Message: \${body}

Description:

Id: log1

Log Name:

Logger Ref:

Logging Level: INFO

Marker:

Enter \${body} in Message

Outline   Palette   Select

Components

- FTPS
- File
- Generic
- IMAP
- IMAPS
- JDBC
- JGroups
- JMS
- Language
- LinkedIn
- Log
- MQTT
- MVEL

Routing

Control Flow

Transformation

Miscellaneous

The screenshot shows the Red Hat Fuse IDE interface. On the left, the Project Explorer displays a file named 'camel-context.xml' under the 'spring' directory. The main workspace shows a Camel route named 'Route \_route' with a timer component followed by a 'Log' component. Below the route, the 'Properties' view is open, showing the 'Log' configuration with the message placeholder '\$(body)'. A yellow callout box points to this placeholder with the text 'Enter \${body} in Message'. The right side of the interface contains the Outline and Palette panes, which list various Camel components like FTPS, File, Generic, etc.

Quick Access

Project Explorer   Package Explorer   Red Hat Central   \*camel-context.xml

spring-route  
spring-route-deployment [fuse-integration master]  
JAX-RS Web Services  
Deployment Descriptor: spring-route-deployment  
Camel Contexts  
JAX-WS Web Services  
Java Resources  
src/main/java  
src/main/resources  
META-INF  
spring  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
pom.xml  
README.md

Route \_route

```
graph TD; A[timer:timerName?fixe..] --> B[Log]; B --> C[Process _process1]
```

M JMX Navigator type filter text

Local Processes  
Server Connections  
User-Defined Connections

Design Source Configurations

Problems Servers Forge Console OpenShift Explorer Properties

Details Documentation

Process \_process1

General

Ref \*   
Description   
Id \_process1

Drag and drop Process

Outline Palette Select Components Log MQTT MVEL Mina2 Netty Netty HTTP Netty4 Netty4 HTTP POP3 POP3S Process Route Context Trans MISC

beans/#text

Project Explorer    Package Explorer    Red Hat Central    \*camel-context.xml

Quick Access

spring-route  
spring-route-deployment [fuse-integration master]  
JAX-RS Web Services  
Deployment Descriptor: spring-route-deployment  
Camel Contexts  
JAX-WS Web Services  
Java Resources  
src/main/java  
src/main/resources  
META-INF  
spring  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
pom.xml  
README.md

Route \_route

```
graph TD; T1[timer:timerName?fixe..] --> L1[Log]; L1 --> P1[Process _process1]
```

JMX Navigator

Local Processes  
Server Connections  
User-Defined Connections

Design   Source   Configurations

Problems   Servers   ForgeClient  
Details   Documentation

Process \_p  
requestProcessor  
defcf9bdcb4-565d-45e3-9ad2-e3a74674f801  
def06a4c1dd-f045-4d9c-813b-77cf094db4aa

General  
Ref \* requestProcessor  
Description

Select this drop down and select requestProcessor

Outline   Palette

Select

Components  
LinkerUI  
Log  
MQTT  
MVEL  
Mina2  
Netty  
Netty HTTP  
Netty4  
Netty4 HTTP  
POP3  
POP3S  
Process  
Quartz  
Quartz2

Routing  
Control Flow  
Transformation  
Miscellaneous

Quick Access

Project Explorer Package Explorer Red Hat Central \*camel-context.xml SampleRoute.java Outline Palette Select Components ActiveMQ Atom Bean CXF CXF-RS Control Bus The cxf component is used for JAX-RS REST services using Apache CXF. Direct Direct VM EJB FTP File Generic IMAP JMS

Route \_route

```
graph TD; A[timer:timerName?fixedRate=true&] --> B[Log_Log1]; B --> C[Process_process1]; C --> D[cxfrs:beanId:address]
```

JMX Navigator type filter text

Local Processes Server Connections User-Defined Connections

Design Source Configurations

Problems Servers Forge Console OpenShift Explorer Properties

Details Advanced Documentation

cxfrs:beanId:address

General

Uri \* cxfrs:beanId:address

Description

Id ..to1

Pattern

Ref (deprecated)

beans/camel:camelContext/#text

Drag and drop CXF-RS

Project Explorer   Package Explorer   Red Hat Central   \*camel-context.xml   SampleRoute.java

spring-route  
spring-route-deployment [fuse-integration master]  
JAX-RS Web Services  
Deployment Descriptor: spring-route-deployment  
Camel Contexts  
JAX-WS Web Services  
Java Resources  
src/main/java  
com.redhat.consulting.fusequickstarts.eap.deploy  
com.redhat.consulting.fusequickstarts.eap.deploy  
SampleRoute.java  
SourceData.java  
src/main/resources  
META-INF  
spring  
camel-context.xml  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
nmvml

Route \_route

```
graph TD; T1[timer:timerName?fixedRate=true&] --> L1[Log_log1]; L1 --> P1[Process_process1]; P1 --> C1[cxfrs:bean:rsClient]
```

JMX Navigator   type filter text

Local Processes  
Server Connections  
User-Defined Connections

Design   Source   Configurations

Problems   Servers   Forge Console   OpenShift Explorer   Properties

cxfrs:beanId:address

General

Uri \* **cxfrs:bean:rsClient**

Description

Id **\_to1**

Pattern

Ref (deprecated)

Outline   Palette   Select

Components

- ActiveMQ
- Atom
- Bean
- CXF
- CXF-RS
- Control Bus
- Direct
- Direct VM
- EJB
- FTP
- FTPS
- File
- Generic
- Routing
- Control Flow
- Transformation
- Miscellaneous

Change uri to "cxfrs:bean:rsClient"

Quick Access

Project Explorer Package Explorer Red Hat Central \*camel-context.xml

Outline Palette Select Components Mina2 Netty Netty HTTP Netty4 Netty4 HTTP POP3 POP3S Process Quartz Quartz2 RSS Restlet SAP NetWeaver Routing Control Flow Transformation Miscellaneous

Route \_route

```
graph TD; A[timer:timerName?fixedRate=true&] --> B[Log_log1]; B --> C[Process_process1]; C --> D[cxf:bean:rsClient]; D --> E[Process_process2]
```

JMX Navigator type filter text Local Processes Server Connections User-Defined Connections

Design Source Configurations Problems Servers Forge Console OpenShift Explorer Properties

Details Documentation

General Ref \* Description Id \_process2

Drag and drop Process

spring-route  
spring-route-deployment [fuse-integration master]  
JAX-RS Web Services  
Deployment Descriptor: spring-route-deployment  
Camel Contexts  
JAX-WS Web Services  
Java Resources  
src/main/java  
src/main/resources  
META-INF  
spring  
camel-context.xml  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
pom.xml  
README.md

Project Explorer    Package Explorer    Red Hat Central    \*camel-context.xml

Quick Access

spring-route  
spring-route-deployment [fuse-integration master]  
JAX-RS Web Services  
Deployment Descriptor: spring-route-deployment  
Camel Contexts  
JAX-WS Web Services  
Java Resources  
src/main/java  
src/main/resources  
META-INF  
spring  
camel-context.xml  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
pom.xml  
README.md

Route \_route

```
graph TD; A[timer:timerName?fixedRate=true&] --> B[Log_log1]; B --> C[Process_process1]; C --> D[cxfrs:bean:rsClient]; D --> E[Process_process2]
```

JMX Navigator

Local Processes  
Server Connections  
User-Defined Connections

Design Source Configurations

Problems Servers Forged

Details Documentation

Process \_p

General

Ref \*

xmlProcessor

rsClient

xmlProcessor

requestProcessor

option

Id

\_process2

Select

Components

Mina2  
Netty  
Netty HTTP  
Netty4  
Netty4 HTTP  
POP3  
POP3S  
Process  
Quartz  
Quartz2  
RSS  
Restlet  
SAP NetWeaver

Routing  
Control Flow  
Transformation  
Miscellaneous

Select xmlProcessor

Project Explorer   Package Explorer   Red Hat Central   \*camel-context.xml

Quick Access

spring-route  
  > spring-route-deployment [fuse-integration master]  
    JAX-RS Web Services  
    Deployment Descriptor: spring-route-deployment  
    Camel Contexts  
    JAX-WS Web Services  
Java Resources  
  src/main/java  
  src/main/resources  
    META-INF  
      spring  
      camel-context.xml  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
pom.xml  
README.md

JMX Navigator

Local Processes  
Server Connections  
User-Defined Connections

Route \_route1

```
graph TD; A[timer:timerName?fixedRate=true&] --> B[Log_log1]; B --> C[Process_process1]; C --> D[cxf:bean:rsClient]; D --> E[Process_process2]; E --> F[Log_log2]
```

Design   Source   Configurations

Properties

Log \_log2

General

Message

Description

Id  log2

Log Name

Logger Ref

Logging Level  INFO

Marker

Outline   Palette

Select

Components

- FTP
- FTPS
- File
- Generic
- IMAP
- IMAPS
- JDBC
- JGroups
- JMS
- Language
- LinkedIn
- Log  **Logs the defined message to the logger**
- MQTT
- Routing
- Control Flow
- Transformation
- Miscellaneous

Drag and drop Log

Project Explorer    Package Explorer    Red Hat Central    \*camel-context.xml

Quick Access

spring-route  
  > spring-route-deployment [fuse-integration master]  
    JAX-RS Web Services  
    Deployment Descriptor: spring-route-deployment  
    Camel Contexts  
    JAX-WS Web Services  
Java Resources  
  src/main/java  
  src/main/resources  
    META-INF  
      spring  
      camel-context.xml  
Libraries  
JavaScript Resources  
Deployed Resources  
src  
target  
pom.xml  
README.md

JMX Navigator type filter text

Local Processes  
Server Connections  
User-Defined Connections

Route \_route1

```
graph TD; A[timer:timerName?fixedRate=true&] --> B[Log_log1]; B --> C[Process_process1]; C --> D[cxf:bean:rsClient]; D --> E[Process_process2]; E --> F[Log]
```

Design Source Configurations

Problems Servers Forge Console OpenShift Explorer Properties

Log \_log2

General

Message: \${body}

Description:

Id: \_log2

Log Name:

Logger Ref:

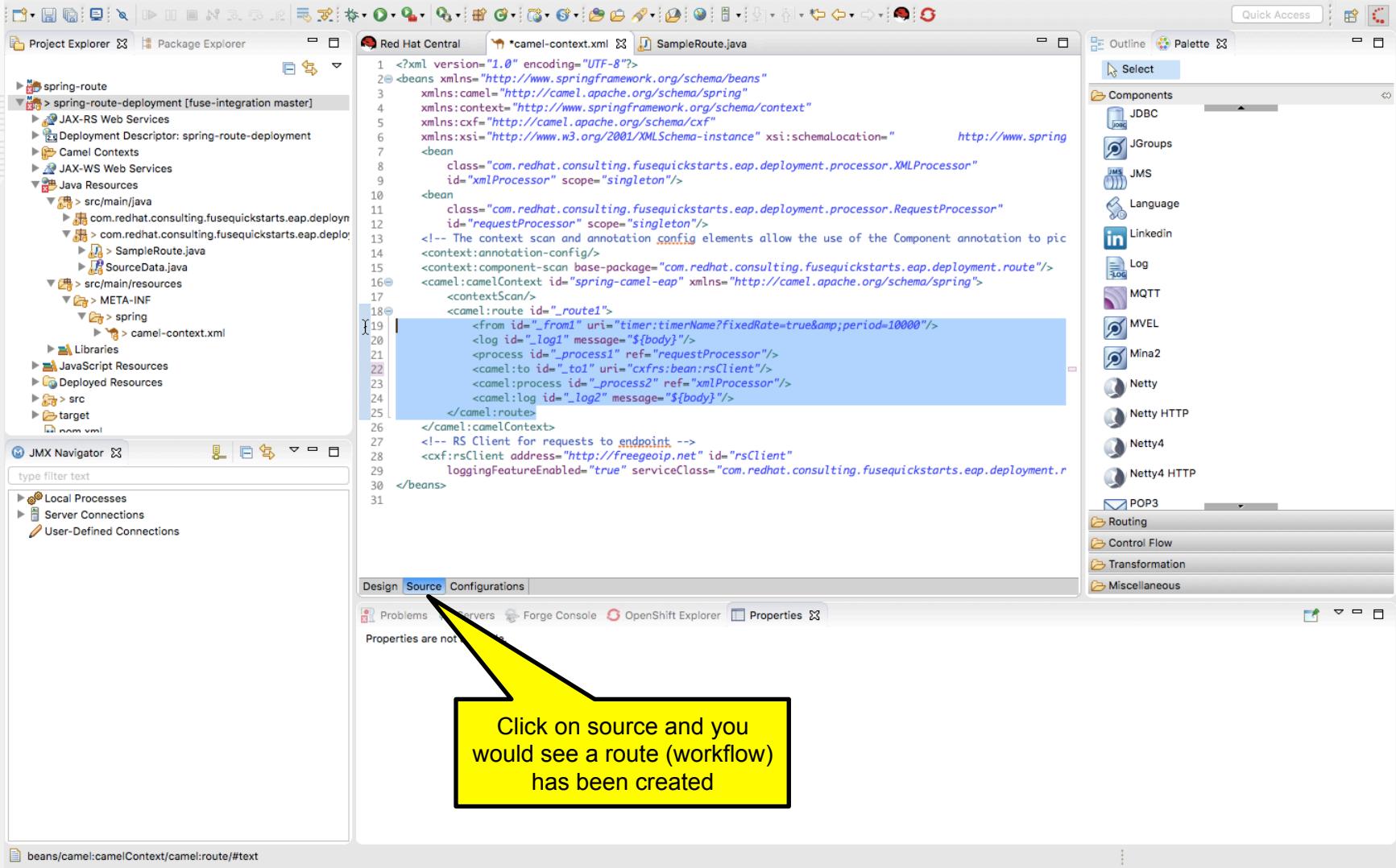
Logging Level: INFO

Marker:

Print the message as whatever comes from xmlProcessor by writing \$ {body}

Outline Palette Select Components

FTP  
File  
Generic  
IMAP  
IMAPS  
JDBC  
JGroups  
JMS  
Language  
LinkedIn  
Log  
MQTT  
MVEI  
Routing  
Control Flow  
Transformation  
Miscellaneous



The screenshot shows the Eclipse IDE interface with several open windows:

- Project Explorer**: Shows the project structure with nodes like "spring-route", "spring-route-deployment [fuse-integration master]", "JAX-RS Web Services", "Deployment Descriptor: spring-route-deployment", "Camel Contexts", "JAX-WS Web Services", and "Java Resources".
- Package Explorer**: Shows the package structure under "Java Resources".
- Red Hat Central**: Shows the file "SampleRoute.java" and "camel-context.xml".
- Outline**: Shows a list of components: JDBC, JGroups, JMS, Language, LinkedIn, Log, MQTT, MVEL, Mina2, Netty, Netty HTTP, Netty4, Netty4 HTTP, POP3, Routing, Control Flow, Transformation, and Miscellaneous.

The code editor displays the content of "SampleRoute.java":

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:camel="http://camel.apache.org/schema/spring"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:cxf="http://camel.apache.org/schema/cxf"
       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.xsd
                                         http://camel.apache.org/schema/spring http://camel.apache.org/schema/spring/spring-camel.xsd
                                         http://www.w3.org/2001/XMLSchema-instance http://www.w3.org/2001/XMLSchema-instance">
    <bean class="com.redhat.consulting.fusequickstarts.eap.deployment.processor.XMLProcessor" id="xmlProcessor" scope="singleton"/>
    <bean class="com.redhat.consulting.fusequickstarts.eap.deployment.processor.RequestProcessor" id="requestProcessor" scope="singleton"/>
    <!-- The context scan and annotation config elements allow the use of the Component annotation to pic
        <context:annotation-config/>
        <context:component-scan base-package="com.redhat.consulting.fusequickstarts.eap.deployment.route"/>
        <camel:camelContext id="spring-camel-eap" xmlns="http://camel.apache.org/schema/spring">
            <contextScan/>
            <camel:route id="_route1">
                <from id="_from1" uri="timer:timerName?fixedRate=true&period=10000"/>
                <log id="_log1" message="${body}"/>
                <process id="process1" ref="requestProcessor"/>
                <camel:to id="_to1" uri="cxf:bean:rsClient"/>
                <camel:process id="process2" ref="xmlProcessor"/>
                <camel:log id="_log2" message="${body}"/>
            </camel:route>
        </camel:camelContext>
        <!-- RS Client for requests to endpoint -->
        <cxf:rsClient address="http://freegeoip.net" id="rsClient" loggingFeatureEnabled="true" serviceClass="com.redhat.consulting.fusequickstarts.eap.deployment.r
    </beans>
```

The "Properties" view shows the following details for "SampleRoute.java":

Property	Value
derived	false
editable	true
last mod...	10 May 2018 at 10:24:08 PM
linked	false
location	/Users/kapil/Downloads/github/fuse-integration/eap/spring_route_deployment...
name	SampleRoute.java
path	/spring-route-deployment/src/main/java/com/redhat/consulting/fusequickstar...
size	1,667 bytes

A yellow callout box with the text "Open SampleRoute.java" is positioned in the bottom-left corner of the interface.

The screenshot shows the Eclipse IDE interface with several open windows:

- Project Explorer**: Shows the project structure with nodes like "spring-route", "spring-route-deployment [fuse-integration master]", "JAX-RS Web Services", "Deployment Descriptor: spring-route-deployment", "Camel Contexts", "JAX-WS Web Services", and "Java Resources".
- Red Hat Central**: A browser window showing camel-context.xml and SampleRoute.java.
- SampleRoute.java**: The Java code for the Camel route configuration. The code defines a class `SampleRoute` with a `configure()` method containing Camel routes. A yellow arrow points from the text "A developer could create a route via writing in java file" to this code.
- Outline**: A palette window indicating "A palette is not available."
- M JMX Navigator**: Shows local processes, server connections, and user-defined connections.
- OpenShift Explorer**: A palette window.

```
private final XMLProcessor xmlProcessor = new XMLProcessor();  
/**  
 * @Resource(mappedName = "java:/ConnectionFactory")  
 private ConnectionFactory connectionFactory;  
 */  
  
@Override  
public void configure() throws Exception {  
  
    /**  
     JmsComponent component = new JmsComponent();  
     component.setConnectionFactory(connectionFactory);  
     */  
  
    /**  
     from("timer://myEapTimer?fixedRate=true&period=10000")  
     .process(requestProcessor)  
     .to("cxfrs://bean://rsClient")  
     .process(xmlProcessor)  
     .log("Setting message to queue: ${body}");  
    */  
  
    /**  
     .to("jms:queue:eapJmsTestQueue?clientId=eapJmsProducerRoute");  
     */  
    from("jms:queue:eapJmsTestQueue?clientId=eapJmsConsumerRoute")  
    .routeId("eapJmsConsumerRoute")  
    .setBody().simple("Received Message: ${body}")  
    .log("Getting message from queue: ${body}");  
}  
}  
}  
}
```

A developer could create a route via writing in java file

The word 'cxfrs' is not correctly spelled

Writable

Smart Insert

42 : 13

The screenshot shows the Red Hat JBoss Developer Studio interface. On the left is the Project Explorer, displaying a workspace with several projects and their components. In the center is the Editor view, showing a Java file named `SampleRoute.java`. The code implements a Camel route using the JMS component. A large yellow callout points from the bottom left towards the `Properties` tab at the bottom of the editor. The `Properties` tab is currently selected, showing a table with two columns: `Property` and `Value`. At the bottom of the screen, there is a toolbar with various icons, and the status bar displays the text "Writable" and "Smart Insert".

```
private final XMLProcessor xmlProcessor = new XMLProcessor();  
/**  
 * @Resource(mappedName = "java:/ConnectionFactory")  
 private ConnectionFactory connectionFactory;  
 */  
  
@Override  
public void configure() throws Exception {  
  
    /**  
     JmsComponent component = new JmsComponent();  
     component.setConnectionFactory(connectionFactory);  
     */  
  
    /**  
     from("timer://myEapTimer?fixedRate=true&period=10000")  
     .process(requestProcessor)  
     .to("cxfrs://bean://rsClient")  
     .process(xmlProcessor)  
     .log("Setting message to queue: ${body}");  
     */  
  
    /**  
     .to("jms:queue:eapJmsTestQueue?clientId=eapJmsProducerRoute");  
     */  
    from("jms:queue:eapJmsTestQueue?clientId=eapJmsConsumerRoute")  
    .routeId("eapJmsConsumer")  
    .setBody().simple("Received Message: ${body}")  
    .log("Getting message from queue: ${body}");  
}  
}  
}  
}
```

Click Save All

Click the project and note down the location

Red Hat Central camel-context.xml SampleRoute.java

```
private final XMLProcessor xmlProcessor = new XMLProcessor();  
/**  
 * @Resource(mappedName = "java:/ConnectionFactory")  
 private ConnectionFactory connectionFactory;  
 */  
  
@Override  
public void configure() throws Exception {  
  
    /**  
     JmsComponent component = new JmsComponent();  
     component.setConnectionFactory(connectionFactory);  
     */  
  
    /**  
     from("timer://myEapTimer?fixedRate=true&period=10000")  
     .process(requestProcessor)  
     .to("cxf://bean://rsClient")  
     .process(xmlProcessor)  
     .log("Setting message to queue: ${body}");  
     */  
  
    /**  
     .to("jms:queue:eapJmsTestQueue?clientId=eapJmsProducerRoute");  
     */  
    from("jms:queue:eapJmsTestQueue?clientId=eapJmsConsumerRoute")  
    .routeId("eapJmsConsumer")  
    .setBody().simple("Received Message: ${body}")  
    .log("Getting message from queue: ${body}");  
}  
}  
}
```

Problems Servers Forge Console OpenShift Explorer Properties

spring-route-deployment

Property	Value
derived	false
editable	true
last mod...	10 May 2018 at 11:10:05 PM
linked	false
location	/Users/kapil/Downloads/github/fuse-integration/eap/spring_route_deployment
name	spring-route-deployment
path	/spring-route-deployment

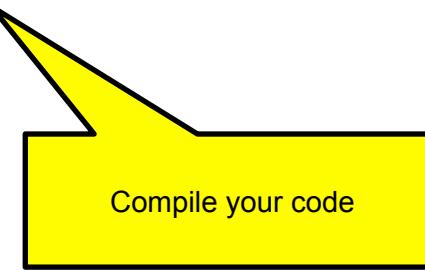
Outline Palette

A palette is not available.

```
..._route_deployment — vim ..../parent/pom.xml      .../fuse/jboss-eap-6.4 — java -jar standalone.sh      ...tion/eap/spring_route_deployment — -bash      ~workspace/spring-route — -bash      ...tion/eap/spring_route_deployment — -bash +
```

[kapil@Kapils-MacBook-Air: fuse-integration\$  
[kapil@Kapils-MacBook-Air: fuse-integration\$  
[kapil@Kapils-MacBook-Air: fuse-integration\$  
[kapil@Kapils-MacBook-Air: fuse-integration\$  
[kapil@Kapils-MacBook-Air: fuse-integration\$  
[kapil@Kapils-MacBook-Air: fuse-integration\$ ls eap/spring\_route\_deployment/  
 README.md pom.xml src/  
[kapil@Kapils-MacBook-Air: fuse-integration\$ pwd  
 /Users/kapil/Downloads/github/fuse-integration  
[kapil@Kapils-MacBook-Air: fuse-integration\$ cd eap/spring\_route\_deployment/  
[kapil@Kapils-MacBook-Air: spring\_route\_deployment\$  
kapil@Kapils-MacBook-Air: spring\_route\_deployment\$ ]

```
..._route_deployment — vim ..../parent/pom.xml      .../fuse/jboss-eap-6.4 — java -jar standalone.sh      ...tion/eap/spring_route_deployment — -bash      ~workspace/spring-route — -bash      ...tion/eap/spring_route_deployment — -bash +  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$  
[kapil@Kapils-MacBook-Air: fuse-integration$ ls eap/spring_route_deployment/  
 README.md pom.xml    src/  
[kapil@Kapils-MacBook-Air: fuse-integration$ pwd  
 /Users/kapil/Downloads/github/fuse-integration  
[kapil@Kapils-MacBook-Air: fuse-integration$ cd eap/spring_route_deployment/  
[kapil@Kapils-MacBook-Air: spring_route_deployment$  
[kapil@Kapils-MacBook-Air: spring_route_deployment$ ls  
 README.md pom.xml    src/    target/  
[kapil@Kapils-MacBook-Air: spring_route_deployment$ mvn clean install ]
```



Compile your code

```
..._route_deployment — vim ..../parent/pom.xml      .../fuse/jboss-eap-6.4 — java * standalone.sh      ...tion/eap/spring_route_deployment — -bash      ~/workspace/spring-route — -bash      ...tion/eap/spring_route_deployment — -bash +
```

[INFO] [INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ spring-route-deployment ---  
[INFO] Nothing to compile - all classes are up to date  
[INFO]  
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ spring-route-deployment ---  
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!  
[INFO] skip non existing resourceDirectory /Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/src/test/resources  
[INFO]  
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ spring-route-deployment ---  
[INFO] No sources to compile  
[INFO]  
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ spring-route-deployment ---  
[INFO] No tests to run.  
[INFO] Skipping execution of surefire because it has already been run for this configuration  
[INFO]  
[INFO] --- maven-war-plugin:2.5:war (default-war) @ spring-route-deployment ---  
[INFO] Packaging webapp  
[INFO] Assembling webapp [spring-route-deployment] in [/Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/target/spring-route-deployment-6.3]  
[INFO] Processing war project  
[INFO] Copying webapp resources [/Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/src/main/webapp]  
[INFO] Webapp assembled in [90 msec]  
[INFO] Building war: /Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/target/spring-route-deployment-6.3.war  
[INFO]  
[INFO] <<< jboss-as-maven-plugin:7.6.Final:deploy (deploy-app) < package @ spring-route-deployment <<<  
[INFO]  
[INFO] --- jboss-as-maven-plugin:7.6.Final:deploy (d  
[INFO] ---  
[INFO] BUILD SUCCESS  
[INFO]  
[INFO] Total time: 9.300 s  
[INFO] Finished at: 2018-05-10T23:28:35+08:00  
[INFO] Final Memory: 26M/181M  
[INFO]

Make sure build is successful

kapil@Kapils-MacBook-Air:~/spring\_route\_deployment\$

```
..._route_deployment — vim ..../parent/pom.xml      .../fuse/jboss-eap-6.4 — java * standalone.sh      ...tion/eap/spring_route_deployment — -bash      ~/workspace/spring-route — -bash      ...tion/eap/spring_route_deployment — -bash
```

[INFO]  
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ spring-route-deployment ---  
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!  
[INFO] skip non existing resourceDirectory /Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/src/test/resources  
[INFO]  
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ spring-route-deployment ---  
[INFO] No sources to compile  
[INFO]  
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ spring-route-deployment ---  
[INFO] No tests to run.  
[INFO] Skipping execution of surefire because it has already been run for this configuration  
[INFO]  
[INFO] --- maven-war-plugin:2.5:war (default-war) @ spring-route-deployment ---  
[INFO] Packaging webapp  
[INFO] Assembling webapp [spring-route-deployment] in [/Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/target/spring-route-deployment-6.3]  
[INFO] Processing war project  
[INFO] Copying webapp resources [/Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/src/main/webapp]  
[INFO] Webapp assembled in [90 msecs]  
[INFO] Building war: /Users/kapil/Downloads/github/fuse-integration/eap/spring\_route\_deployment/target/spring-route-deployment-6.3.war  
[INFO]  
[INFO] <<< jboss-as-maven-plugin:7.6.Final:deploy (deploy-app) <<<  
[INFO] --- jboss-as-maven-plugin:7.6.Final:deploy (deploy-app) <<<  
[INFO]  
[INFO] BUILD SUCCESS  
[INFO]  
[INFO] Total time: 9.300 s  
[INFO] Finished at: 2018-05-10T23:28:35+08:00  
[INFO] Final Memory: 26M/181M  
[INFO]

Target directory should have this war file

```
kapil@Kapils-MacBook-Air:~/spring_route_deployment$ ls target  
classes/          maven-status/  
maven-archiver/    spring-route-deployment-6.3/  
kapil@Kapils-MacBook-Air:~/spring_route_deployment$
```

localhost:9990/console/App.html#deployments

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Messages: 10 | Red Hat Access | Search | admin

Home Deployments Configuration Runtime Administration

DEPLOYMENTS

## Deployments

Currently deployed application components

### Available Deployments

Filter:

Add Remove En/Disable Replace

hawtio-wildfly-1.4.0.redh ... ✓
redhat-branding.war ✓
switchyard-bpel-console-s ... ✓
switchyard-bpel-console.war ⚡

Open Deployments in EAP console. Click Add button

Deployment

Name: switchyard-bpel-console.war

Runtime Name: switchyard-bpel-console.war

Need Help?

2.5.5.Final-redhat-1 ▲ Tools Settings

localhost:9990/console/App.html#deployments

javax/ws/rs/BeanParam

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Home Deployment

DEPLOYMENTS

Deployments

Currently deployed applications

Available Deployments

Devices

Filter:

Remote Disc

Media

Music

Photos

Movies

Tags

Deployment

Name:

Runtime Name:

Cancel Next >

Message: 10 - Red Hat JBoss EAP 6.4.0.GA

Search admin

Favorites

Name

Date Modified

github

fuse-integration

ear

spring\_route\_deployment

target

spring-route...ent-6.3.war

maven-archiver

spring-route...loyment-6.3

classes

maven-status

pom.xml

README.md

src

parent

README

pom.xml

README.md

pom.xml

LICENSE

Cancel Open

Need Help?

Select the war file

Name	Date Modified
spring-route...ent-6.3.war	Today, 11:28 PM
maven-archiver	Today, 11:28 PM
spring-route...loyment-6.3	Today, 11:28 PM
classes	Today, 11:28 PM
maven-status	Today, 11:28 PM
pom.xml	Today, 5:56 PM
README.md	Today, 5:56 PM
src	Today, 5:56 PM
parent	Today, 10:12 PM
README	Today, 6:06 PM
pom.xml	Today, 5:56 PM
README.md	Today, 6:03 PM
pom.xml	Today, 5:56 PM
LICENSE	Today, 5:56 PM

localhost:9990/console/App.html#deployments

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Messages: 10 | Red Hat Access | Search | admin

Home Deployments Configuration Runtime Administration

DEPLOYMENTS

Deployments

Currently deployed application components

Available Deployments

Filter:

hawtio-wildfly-1.4.0.redh ...  
redhat-branding.war  
switchyard-bpel-console-s ...  
switchyard-bpel-console.war

Step1/2: Deployment Selection

Please choose a file that you want to deploy.

Browse... spring-route-deployment-6.3.war

En/Disable Replace

Need Help?

Click here

Cancel Next >

2.5.5.Final-redhat-1

Tools Settings

localhost:9990/console/App.html#deployments

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Messages: 10 | Red Hat Access | Search | admin

Home Deployments Configuration Runtime Administration

DEPLOYMENTS

Deployments

Currently deployed application components

Available Deployments

Filter:

- hawtio-wildfly-1.4.0.redh ...
- redhat-branding.war
- switchyard-bpel-console-s ...
- switchyard-bpel-console.war

Deployment

Name:

Runtime Name:

Step 2/2: Verify Deployment Names

Name:

Runtime Name:

Enable:

Need Help?

En/Disable Replace

Click here

Cancel Save

Need Help?

2.5.5.Final-redhat-1

Tools Settings

localhost:9990/console/App.html#deployments

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Messages: 10 | Red Hat Access | Search | admin

Home Deployments Configuration Runtime Administration

DEPLOYMENTS

## Deployments

Currently deployed application components.

### Available Deployments

Filter:

Add Remove En/Disable Replace

- hawtio-wildfly-1.4.0.redh ... ✓
- redhat-branding.war ✓
- spring-route-Deployment-6 ...
- switchyard-bpel-console- ... ✓
- switchyard-bpel-console.war

Deployment

Name: spring-route-Deployment-6.3.war

Runtime Name: spring-route-Deployment-6.3.war

Need Help?

Make sure your deployment appears here

2.5.5.Final-redhat-1 Tools Settings

```
..._route_deployment - vim ..../parent/pom.xml .../fuse/jboss-eap-6.4 -- java * standalone.sh ...tion/eap/spring_route_deployment -- -bash ~workspace/spring-route -- -bash ...tion/eap/spring_route_deployment -- -bash
```

<CountryName>Australia</CountryName>  
<RegionCode>VIC</RegionCode>  
<RegionName>Victoria</RegionName>  
<City>Research</City>  
<ZipCode>3095</ZipCode>  
<TimeZone>Australia/Melbourne</TimeZone>  
<Latitude>-37.7</Latitude>  
<Longitude>145.1833</Longitude>  
<MetroCode>0</MetroCode>  
</Response>

22:26:57,160 INFO [org.apache.camel.impl.DefaultShutdownStrategy] (ServerService Thread Pool -- 328) Graceful shutdown of 1 route  
s completed in 1 seconds

22:26:57,175 INFO [org.apache.camel.spring.SpringCamelContext] (ServerService Thread Pool -- 328) Apache Camel 2.17.0.redhat-6301  
87 (CamelContext: spring-camel-eap) uptime 1 minute

22:26:57,175 INFO [org.apache.camel.spring.SpringCamelContext] (ServerService Thread Pool -- 328) Apache Camel 2.17.0.redhat-6301  
87 (CamelContext: spring-camel-eap) is shutdown in 1 minutes

22:26:57,176 INFO [org.springframework.beans.factory.support.DefaultListableBeanFactory] (ServerService Thread Pool -- 328) Destroying  
singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@5b0777fc: defining beans [org.springfram  
ework.context.annotation.internalConfigurationAnnotationProcessor,org.springfram  
ework.context.annotation.internalRequiredAnnotationProcessor,org.springfram  
ework.context.annotation.internalCommonAnnotationProcessor,requestProcessor,xmlProcessor,anotherSampleRoute,sampleRoute,\_to2,\_to1,template,consumerTemplate,spring-camel-eap:beanPostProcessor,spring-camel-eap,rsClient,org.springframework.context.annotation.ConfigurationClassPostProcessor.importAwareProcessor]; root of factory hierarchy

22:26:57,263 INFO [org.jboss.as.server.deployment] (MSC service thread -6.3.war (runtime-name: spring-route-deployment-6.3.war) in 1120ms  
- 4) JBAS015877: Stopped deployment spring-route-deployment-6.3.war  
- 48) JBAS015858: Undeployed "spring-route-deployment-6.3.war"

22:26:57,272 INFO [org.jboss.as.server] (HttpManagementService-thread-1) JBAS014901: Content removed from location /Users/kapil/Downloads/fuse/jboss-eap-6.4/standalone/data/content/f3/fb26570016756a9903fffd88ee03b21603b04d/content

23:29:12,568 INFO [org.jboss.as.repository] (HttpManagementService-threads - 50) JBAS014901: Content removed from location /Users/kapil/Downloads/fuse/jboss-eap-6.4/standalone/data/content/dc/cce9c01d18ec36acd10f12a8f2b4f3c293b102/content

23:30:35,108 INFO [org.jboss.as.repository] (HttpManagementService-threads - 51) JBAS014900: Content added at location /Users/kapil/Downloads/fuse/jboss-eap-6.4/standalone/data/content/dc/cce9c01d18ec36acd10f12a8f2b4f3c293b102/content

Check your EAP server logs for successful deployment

localhost:9990/console/App.html#deployments

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Messages: 10 | Red Hat Access | Search | admin

Home Deployments Configuration Runtime Administration

DEPLOYMENTS

## Deployments

Currently deployed application components.

Available Deployments

Filter:

Add Remove En/Disable Replace

- hawtio-wildfly-1.4.0.redh ... ✓
- redhat-branding.war ✓
- spring-route-deployment-6 ... ⚡
- switchyard-bpel-console- ... ✓
- switchyard-bpel-console.war

Deployment

Name: spring-route-deployment-6.3.war

Runtime Name: spring-route-deployment-6.3.war

Need Help?

Select your deployment and then click on En/Disable button on right

2.5.5.Final-redhat-1 ▲ Tools Settings

localhost:9990/console/App.html#deployments

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Home Deployments Configuration Runtime Administration

DEPLOYMENTS

## Deployments

Currently deployed application components.

Available Deployments

Filter:

hawtio-wildfly-1.4.0.redh ...	✓
redhat-branding.war	✓
spring-route-deployment-6	...
switchyard-bpel-console-s ...	✓
switchyard-bpel-console.war	✗

Add Remove En/Disable Replace

Are you sure?

Enable spring-route-deployment-6.3.war ?

Cancel Confirm

Deployment

Name: spring-route-deployment-6.3.war

Runtime Name: spring-route-deployment-6.3.war

Need Help?

2.5.5.Final-redhat-1

Tools Settings

localhost:9990/console/App.html#deployments

RED HAT JBOSS' ENTERPRISE APPLICATION PLATFORM 6.4.0.GA

Messages: 10 | Red Hat Access | Search | admin

Home Deployments Configuration Runtime Administration

DEPLOYMENTS

## Deployments

Currently deployed application components.

### Available Deployments

Filter:

- hawtio-wildfly-1.4.0.redh ... ✓
- redhat-branding.war ✓
- spring-route-deployment-6 ... ⚡
- switchyard-bpel-console-s ... ✓
- switchyard-bpel-console.war ⚡

Add Remove En/Disable Replace

Please wait

Your request is being processed ...

Deployment

Name: spring-route-deployment-6.3.war

Runtime Name: spring-route-deployment-6.3.war

Need Help?

2.5.5.Final-redhat-1

Tools Settings

```
..._route_deployment — vim ..../parent/pom.xml .../fuse/jboss-eap-6.4 — java * standalone.sh ...tion/eap/spring_route_deployment — bash ~/workspace/spring-route — bash ...tion/eap/spring_route_deployment — bash
```

Headers: {CF-RAY=[418d816b913d320a-SIN], connection=[keep-alive], Content-Length=[547], content-type=[application/xml], Date=[Thu, 10 May 2018 15:40:39 GMT], Server=[cloudflare], Set-Cookie=[\_\_cfduid=dc11a19c4b9c09e9ac25c100c20ba27601525966839; expires=Fri, 10-May-19 15:40:39 GMT; path=/; domain=.freegeoip.net; HttpOnly], Vary=[Origin], X-Database-Date=[Wed, 02 May 2018 08:00:28 GMT]}

Payload: <Response>

<DeprecationMessage>This API endpoint is deprecated and will stop working on July 1st, 2018. For more information please visit: https://github.com/apilayer/freegeoip#readme</DeprecationMessage>

<IP>1.1.1.1</IP>

<CountryCode>AU</CountryCode>

<CountryName>Australia</CountryName>

<RegionCode>VIC</RegionCode>

<RegionName>Victoria</RegionName>

<City>Research</City>

<ZipCode>3095</ZipCode>

<TimeZone>Australia/Melbourne</TimeZone>

<Latitude>-37.7</Latitude>

<Longitude>145.1833</Longitude>

<MetroCode>0</MetroCode>

</Response>

---

23:40:38,860 INFO [ \_route1] (Camel (spring-camel-eap) thread #0 - timer://timerName) <Response>

<DeprecationMessage>This API endpoint is deprecated and will stop working on July 1st, 2018. For more information please visit: https://github.com/apilayer/freegeoip#readme</DeprecationMessage>

<IP>1.1.1.1</IP>

<CountryCode>AU</CountryCode>

<CountryName>Australia</CountryName>

<RegionCode>VIC</RegionCode>

<RegionName>Victoria</RegionName>

<City>Research</City>

<ZipCode>3095</ZipCode>

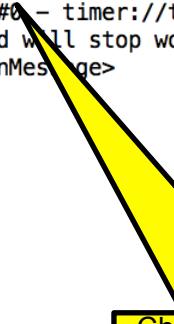
<TimeZone>Australia/Melbourne</TimeZone>

<Latitude>-37.7</Latitude>

<Longitude>145.1833</Longitude>

<MetroCode>0</MetroCode>

</Response>



Check your logs ... every 10 seconds a request is made to <http://freegeoip.net> and the response is printed



# THANK YOU



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[facebook.com/redhatinc](https://facebook.com/redhatinc)



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[twitter.com/RedHatNews](https://twitter.com/RedHatNews)



[youtube.com/user/  
RedHatVideos](https://youtube.com/user/RedHatVideos)



[red.ht/red-hat-shares](https://red.ht/red-hat-shares)