



JBoss Fuse & Fuse Fabric

Robert Balent
Quality Assurance Engineer
rbalent@redhat.com

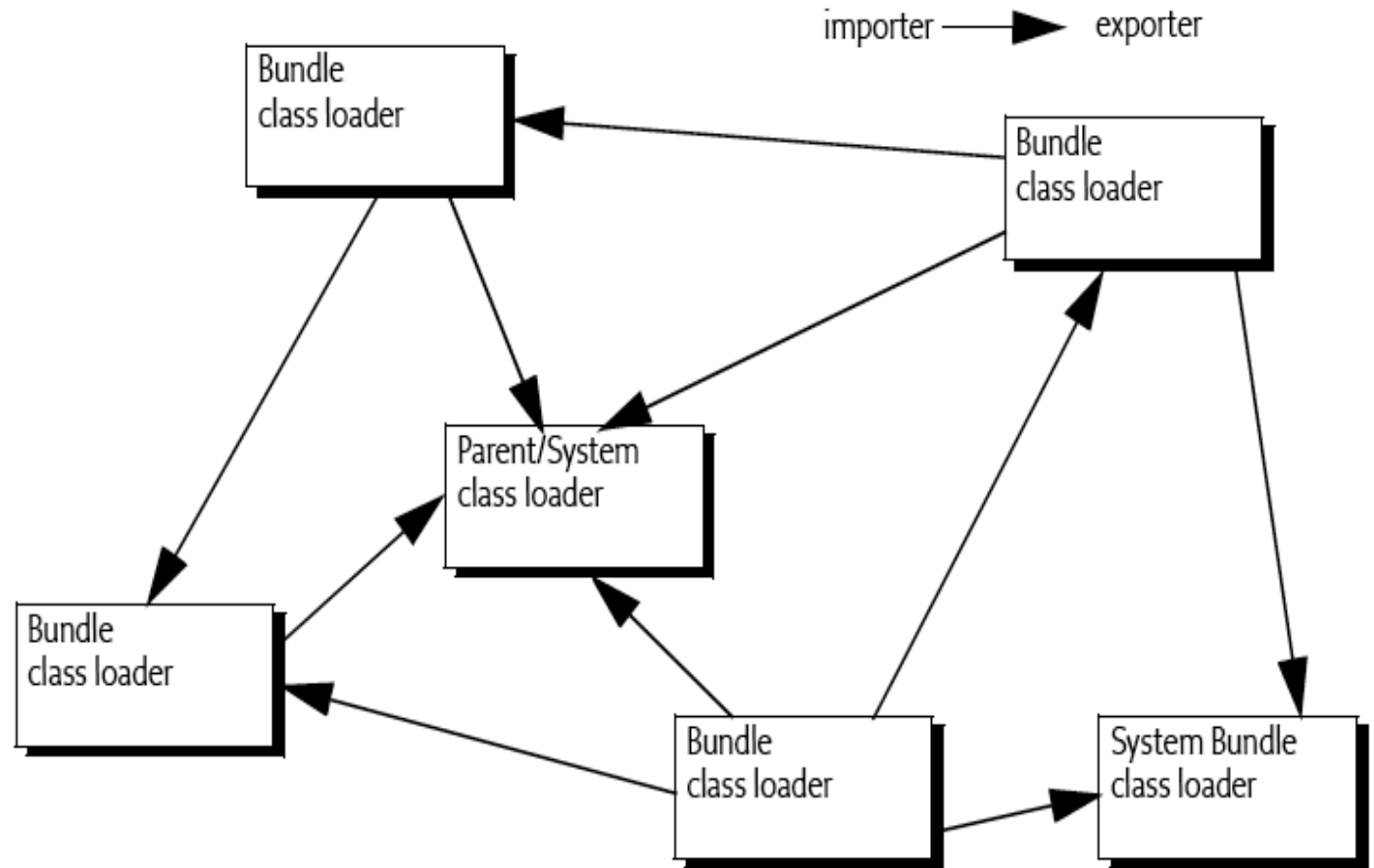


- **JBoss Fuse**
 - Overview
 - Apache Karaf
 - Apache Camel
 - Apache ActiveMQ
 - Apache CXF
- **Fuse Fabric**
 - Overview
 - Child containers
 - Profiles
- **Example**

 **JBoss**® JBoss Fuse – Overview
by Red Hat

- **Application server**
- **Integration**
- **Apache ServiceMix**
 - Apache Karaf
 - Apache Camel
 - Apache ActiveMQ
 - Apache CXF

- OSGi
- Bundle
- Feature
- Dependencies





Apache Camel

- **Components (120+)**
 - HTTP, CXF, Timer, File, ActiveMQ/JMS, Atom/RSS
 - XMPP, IRC, SQL, JDBC, Hibernate, JPA, EJB
- **Integration patterns**
 - Message routing
 - Splitting
 - Transforming
- **DSL**
 - Java DSL
 - XML DSL (Spring or OSGi Blueprint)
 - Groovy DSL
 - Scala DSL



Apache Camel – Java DSL

```
from("file:inputDirectory")
    .choice()
        .when(xpath("/order/city = 'brno'"))
            .to("file:outputDirectory/brnoDir")
        .otherwise()
            .to("file:outputDirectory/otherDir")
    .end();
```



Apache Camel – XML DSL

```
<route>
<from uri="file:inputDirectory"/>
<choice>
  <when>
    <xpath>/order/city = 'brno'</xpath>
    <to uri="file:outputDirectory/brnoDir"/>
  </when>
  <otherwise>
    <to uri="file:outputDirectory/otherDir"/>
  </otherwise>
</choice>
</route>
```



- **Messaging**
 - Broker
 - Client
- **Destinations**
 - Queue
 - Topic
- **Protocols**
 - AMQP, OpenWire, MQTT, Stomp
 - REST
 - RSS/ATOM
 - XMPP

- **Protocols**
 - SOAP
 - XML/HTTP
 - RESTful HTTP
 - CORBA
- **Transports**
 - HTTP
 - JMS
 - JBI



Fuse Fabric - Overview

- **Management system**
- **Server management**
 - Local
 - SSH Container
 - Cloud Container
- **Profile management**
 - Bundles
 - Features
 - Configuration
- **Agent**



JBoss[®] Container management

by Red Hat

- **Local container**
 - New process
 - Same host
- **SSH container**
 - Java
- **Cloud container**
 - Jclouds
 - Amazon EC2
 - Rackspace



Fabric Profiles & Agent

- **Profile**
 - Bundles
 - Features
 - Configuration
 - Hierarchical structure
- **Agent**
 - Apache Zookeeper
 - Distribute profiles



Example

Example



Questions



Ďakujem

- **Robert Balent**
 - rbalent@redhat.com
- **JBoss Fuse**
 - <http://www.jboss.org/products/fuse>
- **Fuse Fabric**
 - <http://fuse.fusesource.org/fabric/>
- **Apache Camel**
 - <http://camel.apache.org/>
- **Apache ActiveMQ**
 - <http://activemq.apache.org/>
- **Apache CXF**
 - <http://cxf.apache.org/>