

Spicing up JMX with Jolokia

Roland Huß
ConSol* Software





Roland Huß

- Java Developer since ever
- working in Munich @ ConSol*
- Open Source
 - Jolokia, Jmx4Perl and docker-maven-plugin
 - www.jolokia.org
 - ▶ labs.consol.de & rol4nd.de
- https://github.com/rhuss
- Chili Pepper Grower



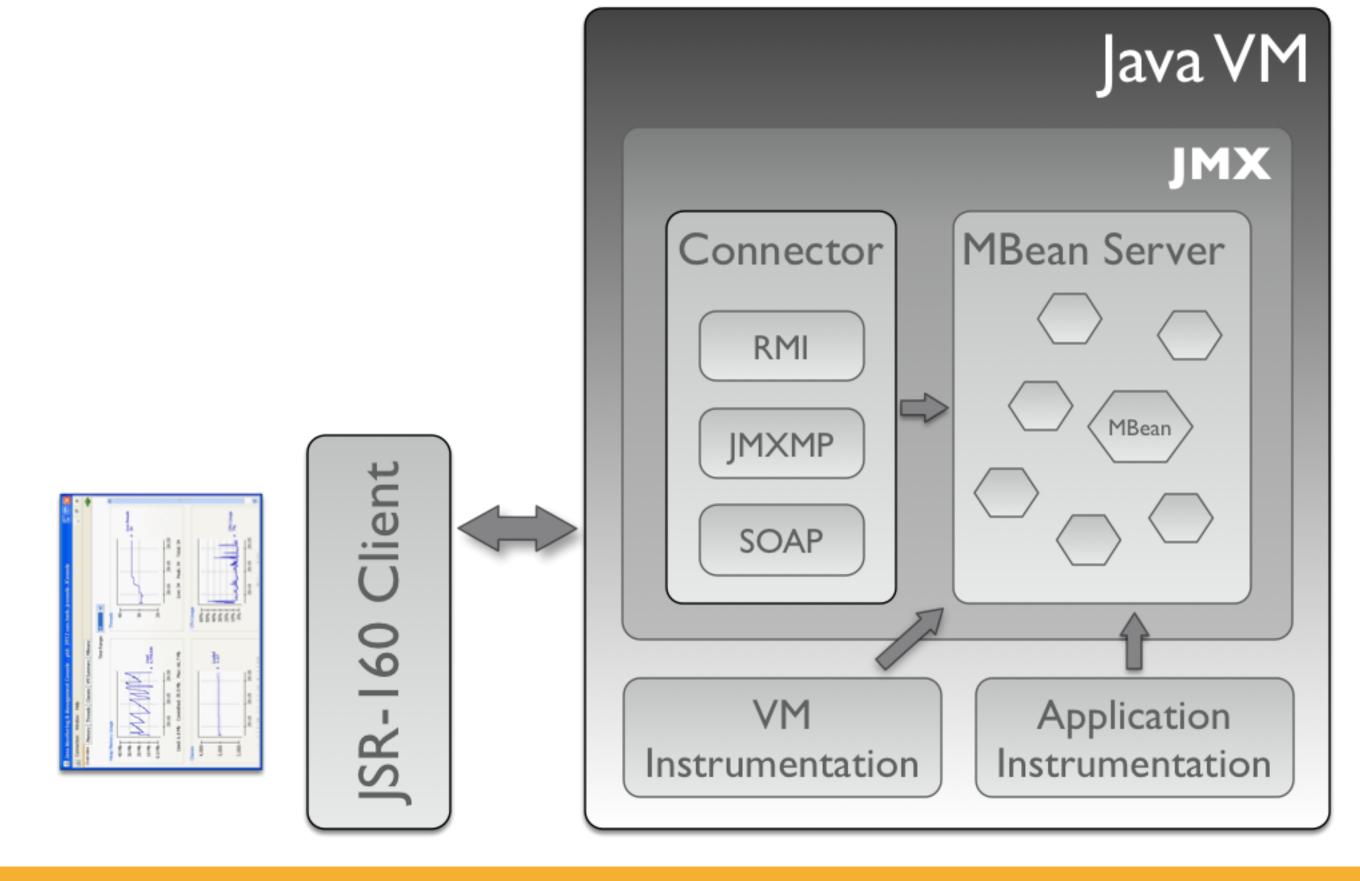


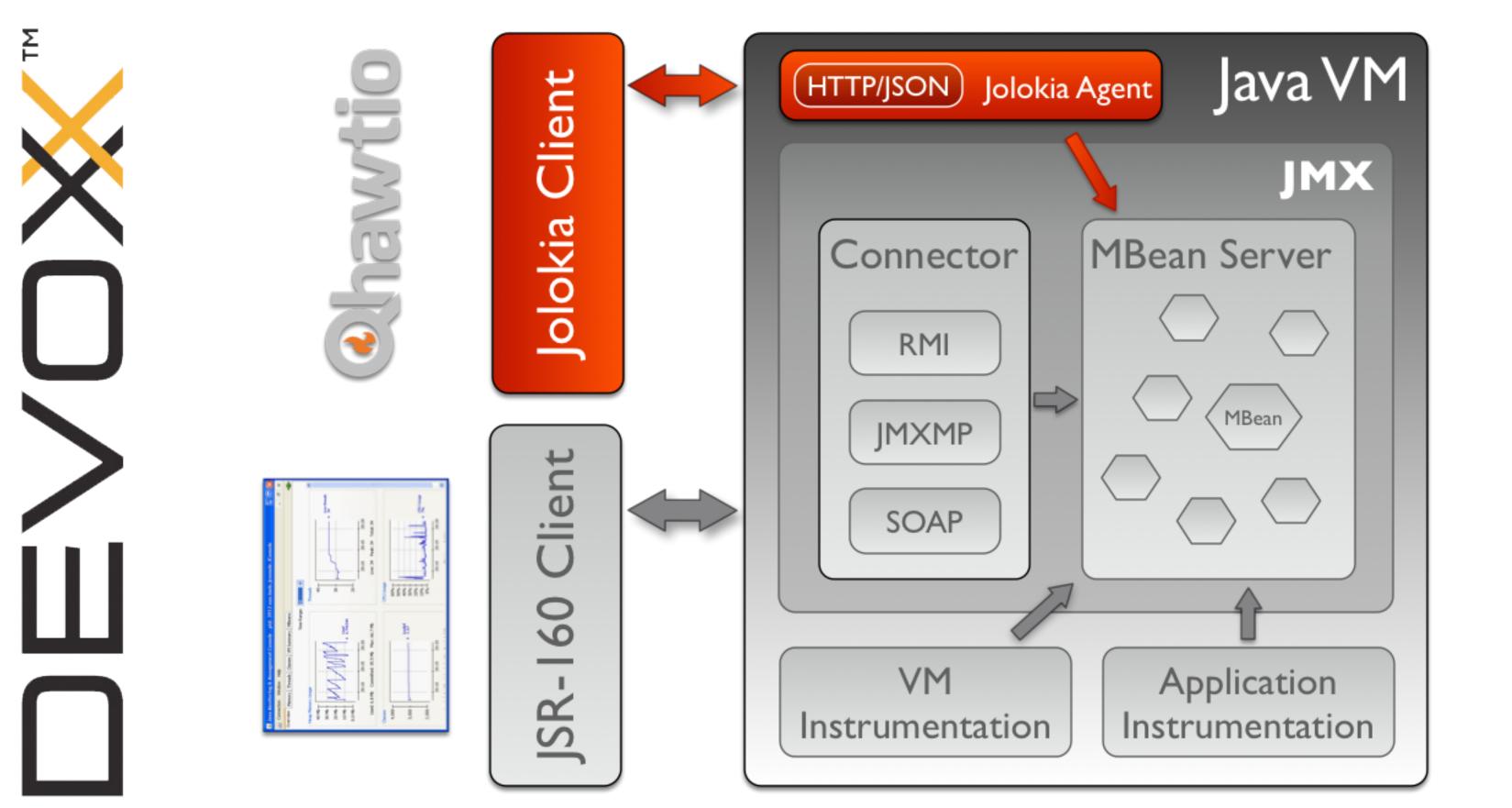


JMX

- Java Management Extensions (JSR-3, 2000)
 - Management: Configuration, Lifecycle Operations, ...
 - Monitoring: Memory Size, Connection Pools
- Available in every JVM
- JSR-160: JMX Remote API
 - Java only
 - Crossing firewall boundaries is very hard (RMI)
 - Security is "all-or-nothing"









Agents

JEE **OSGi** Mule



Who uses Jolokia?



- hawt.io
 - General purpose HTML5 Web Console



- Leading Open Source Message Broker
- fabric8
 - Open Source Integration Platform (part of JBoss Fuse)
- Spring XD
 - System for development of Big Data applications
- Spring Boot











Request Types

read	Reading of attributes
write	Writing of attributes
exec	Execution of operations
search	MBean search
list	MBean metadata
version	Version and server information



Demo



What else?

- Bulk Requests
- JSR-160 Proxy
- Fine grained security via XML policies
- Tooling with Jmx4Perl
- Client-Libs:
 - JavaScript, Java, Perl (maintained by Jolokia & Jmx4Perl)
 - Python, node.js, ... (others)



Jolokia 2.0

- JMX notifications
 - Polling
 - (WebSocket, Server Side Events, JMS,....)
- Role based security
- Modularization and Service Hooks
 - RequestDispatcher (JMX, Spring, ZooKeeper, JNDI,)
 - JSON serializer
 - Restrictor



Demo



Questions?



http://www.jolokia.org