



java.com.sun/javaone

Scripting in GlassFish Project BoF 5111



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Learn about Dynamic Languages and
associated Web frameworks development and
deployment in GlassFish

GOAL

Agenda

- State of GlassFish
- Ruby and Rails
- Groovy and Grails
- Python and Django
- JavaScript and Phobos
- End-to-end Demo (Tic Tac Toe)



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GlassFish Community

Open Source, Enterprise Ready & Extendable



- **GlassFish V3 Tech Preview 2 Available now!**

- Modular OSGi architecture – easy to deploy, Develop and Extend

- **GlassFish V2 – Production Ready**

- Fastest open source app server with Clustering, High Availability, Load Balancing
- Support for jMaki, Comet, Ajax, Ruby and Groovy

- **GlassFish ESB**

- Core SOA functions now embedded in GlassFish

- **GlassFish Communications App Server**

- SIP servlet technology for converged services

Always free to download, deploy and distribute

- **Enterprise and Mission Critical Support**

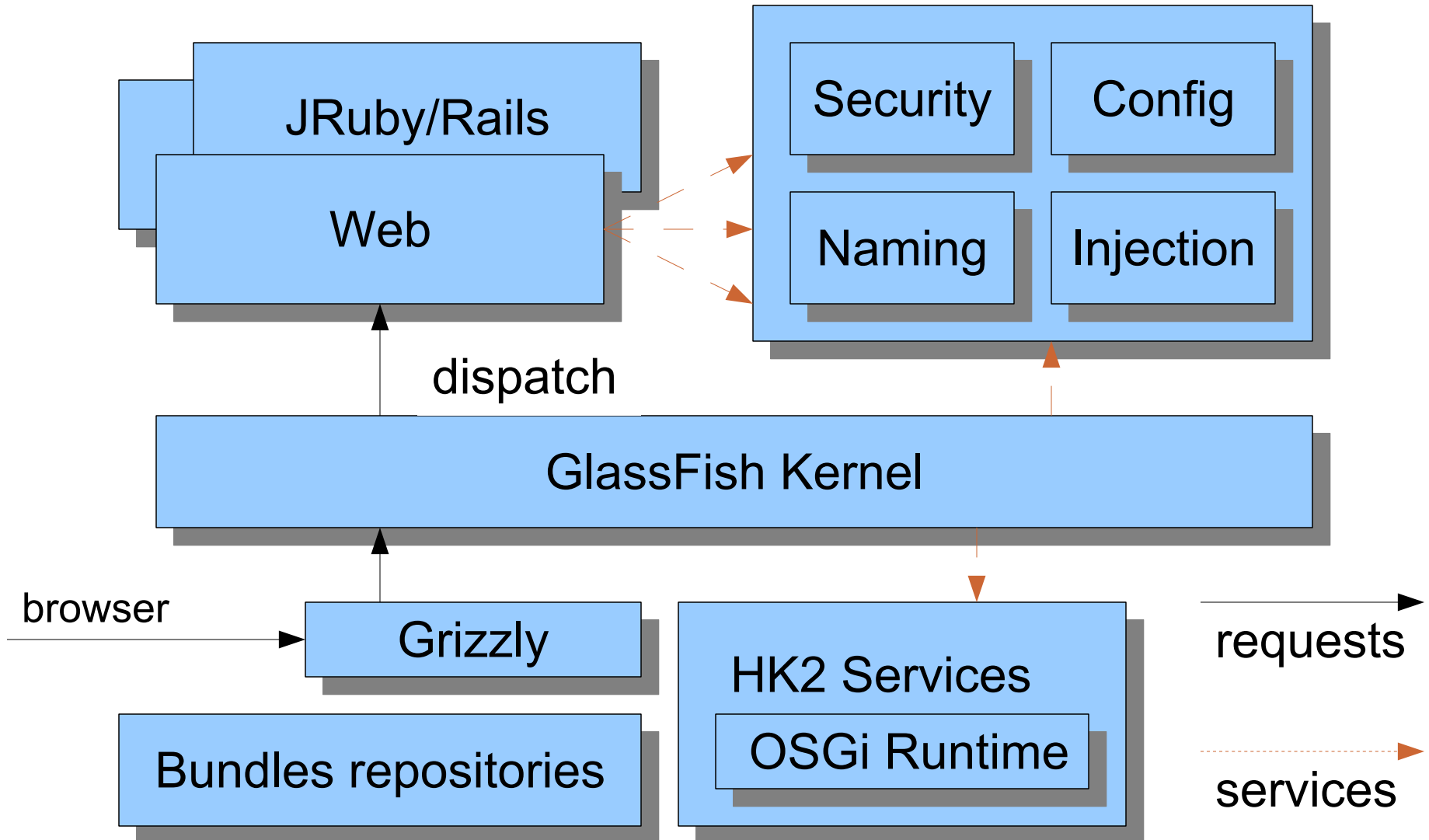
- sun.com/software/products/appsrvr

- **Tools Integration**

- NetBeans and Eclipse

glassfish.org

GlassFish v3 Runtime Architecture



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Ruby and Rails



- Ruby - a Dynamic-typed, pure OO language
 - 1.8.x is current, 1.9.0 in development to become 2.0
- Rails - a Web framework based on MVC pattern
 - Written in Ruby, Rails 2.0.2 released Dec 2007
 - Typical Deployment: Mongrel + Lighty or nginx or ...
- JRuby - Java implementation of Ruby language
 - Ruby 1.8.6 compliant
 - JRuby 1.1.1 released in Apr 2008
 - Native Threading, Solid Performance
- GlassFish - Robust development & deployment

Rails on GlassFish - How to get it ?

GlassFish v3 Gem

```
jruby -S gem install glassfish
```

Rails on GlassFish - How to get it ?

Update Center

```
./updatetool
```

The software needed for this command (updatetool) is not installed.

Would you like to install the software now?

(y/n):

Rails on GlassFish - How to deploy ?

GlassFish v3 Gem

```
jruby -S glassfish_rails <APP>
```

Rails on GlassFish - How to deploy ?

Directory-based Deployment

CLI or NetBeans

Rails on GlassFish - How to deploy ?

WAR-based Deployment

GlassFish v2 (Warbler gem)

Why Rails on GlassFish ?

- Java EE is tested platform
 - Co-host Java EE and Rails applications
- One-command, One-instance, One-process
 - “Green” alternative
- Database Connection Pooling
- OOTB Clustering, High Availability and Session Failover

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Grails on GlassFish

- Supported on GlassFish v2 and v3
 - Update Center Module
 - Grails 1.0.2, Groovy 1.5.4
- GlassFish v3 embedded with Grails
 - Unzip grails-glassfish-v3-overlay.zip on grails installation
 - Just run `grails run-app-gf`
- Groovy in JSF
 - Create JSF components in Groovy
 - Just code, save and refresh

Grails with GlassFish JSF and Groovy

DEMO

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Django on Glassfish

- Jython community is back
 - Frank Wierzbicki is on top of it
- Plan on integrating Django with GlassFish v2 and v3
 - Initial work is encouraging
 - Currently Django support comes through modjy and Jython
 - Tighter integration with GlassFish v3 in progress
 - Twisted, Grizzly

Django on GlassFish

DEMO

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JavaScript and Phobos

- Light-weight application framework
- Running on the Java platform
- Deploy to any Servlet container
- Current focus is JavaScript
- NetBeans integration

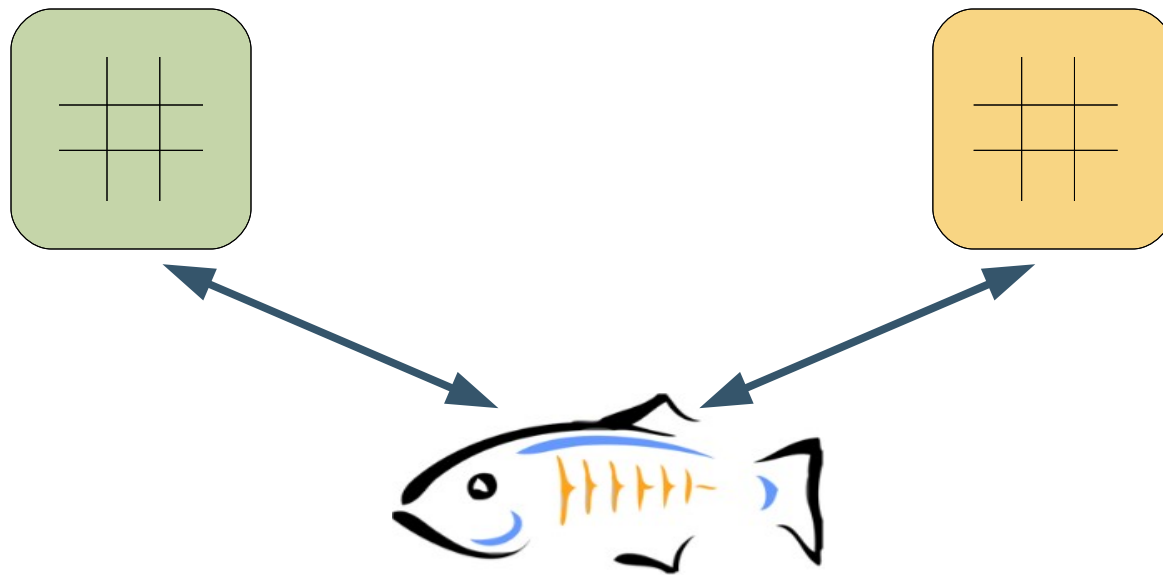
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End-to-end Demo (Tic Tac Toe)

- Multi-player game
- Played over Internet
- Using GlassFish Comet



Tic Tac Toe

DEMO

For More Information

- Scripting in GlassFish Booth (#135)
- Scripting in GlassFish Home
 - glassfish-scripting.dev.java.net
- GlassFish
 - glassfish.dev.java.net
- NetBeans IDE
 - netbeans.org
- WebTier Alias & Forum
 - webtier@glassfish.dev.java.net
 - <http://forums.java.net/jive/forum.jspa?forumID=138>

THANK YOU



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