Extending native scripting environments with the Java Platform

Ludovic Chmpenois

Sun Microsystems

3280

JAZOON08

THE INTERNATIONAL **CONFERENCE** ON **JAVA** TECHNOLOGY
JUNE 23 - 26, 2008 **ZURICH**

Sun microsystems

ELCA

AGENDA

> Why PHP at a Java Conference?

> Mixing PHP and Java: Solutions

> Demo

> Conclusion

Why PHP at a Java Conference?

> PHP is big in Web 2.0
  – Yahoo, Flickr, Sugarcrm, Facebook, Technorati, WorkdPress, Joomla!, StockPhoto, Tagged,.....

> PHP is big in Open Source: Leader according to Forrester Wave
  – Quizz: Who has the most PHP committers?

> PHP is big in Entreprises
  – Ecommerce, CRM, Wikis, Bug Trackings, ...

> All large companies are using multiple languages
  – Asking for complete support: OS, Hardware, MiddleWare, Services

> Scalable Solutions:
  – OpenSolaris, Java, GlassFish, Apache, MySQL, PHP,...
  – Use 1 or more, mix and match, interop
  –

PHP Developers

> Growth Rate:
  – 1: PHP, 2: .Net, 3: Java

> Number:
  – 1: .Net, 2: Java, 3: PHP

> Developers and companies are asking for a PHP/Java Integration
  – Same Database
  – Same Web Services
  – Same Application: Hard to configure
  –

AGENDA

> Why PHP at a Java Conference?
> Mixing PHP and Java: Solutions
> Demo
> Conclusion

Mixing PHP and Java: Solutions

> At the DB or Web Services Level

  – MySQL, RestFull Web Services (JerSey)

> Bridge technologies

  – Zend Platform ($)

  – SourceForge PHP/Java Bridge LGPL Open Source

    ➔ Manual setup
    ➔ Easier with an integrated solution: WebStack

  –

PHP/Java Bridge: How to

> Get a WebStack installed
  - Easier with OpenSolaris: Apache, MySQL, PHP,...
> Get a Java Stack:
  - JDK, OpenJDK, Tomcat, GlassFish V2, V3 (all on OpenSolaris as well)
> Get the bridge and configure
> Restart Apache
> use new Java("javaClassName"); in PHP scripts
> Or use PHP in GlassFish Web Applications
> Get help via an IDE

  -

PHP Java Bridge

> XML Based network protocol

> Connect Native PHP engine to Java and Ecma 335 VM

> 50 times faster than local RPC via SOAP

> Faster, easier than JNI

> Each request-handling PHP process of a multi-process HTTP server communicates with a corresponding thread spawned by the VM

> In a J2EE environment, PHP and JSP session sharing

> A PHP crash does not crash the J2EE Application Server

Sun microsystems

ELCA

AGENDA

> Why PHP at a Java Conference?

> Mixing PHP and Java: Solutions

> Demo

> Conclusion

Demo

> OpenSolaris Indiana

> VirtualBox

> OpenSolaris WebStack

  – Apache, MySQL, PHP from IPS open repository

> GlassFish Application Server

> PHP-Bridge

> NetBeans IDE

  – For Java, For Java EE, for PHP, for MySQL, for you.

  –

Links

☐http://php-java-bridge.sourceforge.net/doc/

☐http://opensolaris.org/index.html

☐http://www.opensolaris.org/os/project/webstack

☐https://glassfish.dev.java.net/

☐http://www.netbeans.org

–

Ludovic Champenois

http://weblogs.java.net/blog/ludo/

Sun Microsystems

ludo@sun.com