

Extending native scripting environments with the Java Platform

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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, Jomla!, StockPhoto, Tagged,.....
- > PHP is big in Open Source: Leader according to Forrester Wave
 - Quizz: Who has the most PHP committers?
- > PHP is big in Enterprises
 - E commerce, CRM, Wikis, Bug Tracking, ...
- > All large companies are using multiple languages
 - Asking for complete support: OS, Hardware, Middle Ware, Services
- > Scalable Solutions:
 - OpenSolaris, Java, GlassFish, Apache, MySQL, PHP,...
 - Use 1 or more, mix and match, inter op



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



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Mixing PHP and Java: Solutions

- > At the DB or Web Services Level
 - MySQL, Restful Web Services (Jersey)
- > Bridge technologies
 - Zend Platform (\$)
 - SourceForge PHP/ Java Bridge LGPL Open Source
 - ➔ Manual setup
 - ➔ Easier with a 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
- > 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 JEE environment, PHP and JSP session sharing
- > A PHP crash does not crash the JEE Application Server



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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://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>



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