

Glassfish V3 Tools support

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JAZOON08

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



Agenda:

- > GlassFish V3 Tooling
 - Eclipse
 - NetBeans
- > OpenSolaris
 - Easy to try/use with VirtualBox (Free)
 - WebStack: Apache, PHP, MySQL
 - WebStack +mod_jk + GlassFish v2
 - WebStack + php/java bridge: PHP<---->GlassFish



GlassFish V3 Web Tier

- > Complete Java EE5 Web Tier support
 - JPA, JSP, JSTL, JSF, Servlet
- > And Extensions:
 - Jersey RestFul Web services
 - Cometd
 - EJBs inside a Web App....YES!!! No EJBModules Needed
 - Preview of Java EE 6



GlassFish V3: Eclipse Support

- > Eclipse support 3.3
 - <https://glassfishplugins.dev.java.net>
- > Download from “Add Server...” Button
- > Features
 - Register Runtime
 - Start/Stop/Debug GlassFish Runtime
 - All Java EE 5 APIs registered
 - All Java EE 5 DTDs and Schemas registered
 - Deploy, Undeploy all Dynamic Web Projects to GlassFish V3
 - JPA Tooling support (Register EclipseLink)
- > Prototype: GlassFish V3 OSGI modules running embedded inside the Eclipse IDE...



GlassFish V3 NetBeans support

- > For 6.1, get support via the Beta Update Center
- > For 6.5, V3 plugin is now part of the daily builds
- > Almost complete Java EE 5 tooling support
 - Register V3 runtime
 - Start, Stop, Debug
 - Web Project
 - JPA
 - JSF
 - JPA from DB, JSF from JPA
 - Jersey RestFul services
 - jMaki Ajax Support
 - No Profiling or HTTP monitoring (yet...)



GlassFish V3 NetBeans support

> New Features in NetBeans 6.1

- JavaScript editor
- JPA to JSF CRUD wizard
- Jersey RESTful services
- Including CRUD generator for jMaki AJAX Clients
- Spring support
- MySQL support
- Support for Popular Web APIs
- Drag and drop operations into a POJO, Servlet, JSP and RESTful web services
- Axis support
- JavaScript Debugger (preview)

>



GlassFish V3 NetBeans support

- > Comet Library registration
 - so you can use the Comet APIs in your Web App
- > EclipseLink library Registration
 - Next Release of TopLink
 - Will be the RI for EJB JPA in Java EE 6
- > All NetBeans JPA features supported



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

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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

