



FOSS.IN/2005

Deploying J2EE Apps with Apache Geronimo

Srikrishnan Sundararajan
IBM India Software Labs
<srikrishnan@in.ibm.com>

Agenda

- **Overview of Apache, Geronimo**
- **Geronimo Architecture**
- **Deploying J2EE Apps**
- **Deployment tool**
- **Demo**

Intro to Apache Geronimo

- **From Apache Software Foundation**
- **Aim: J2EE 1.4 compliant App Server**
- **Made of Kernel, Library and tools**
- **Reuse from proven Open source projects**

Geronimo Composition

System Service	Specification	Open Source Project
Transactions	JTA	Geronimo
Security	JASS,JACC	Geronimo
Threading/Work		Geronimo
Web Container	Servlet/JSP	Jetty, Apache Tomcat
EJB Container	EJB	OpenEJB
Messaging	JMS	ActiveMQ
Mail	JavaMail,JAF	Geronimo
Web service Container	JAX-RPC,EWS	Geronimo, Axis
Naming	JNDI	Geronimo
Database	JDBC	Derby

Geronimo Architecture



Adapted from 'Architectural Overview of Apache Geronimo'
by Jeremy Boynes, Gluecode Software

Concept Mapping

- **Module**
- **Configuration**
- **Deployment plan**
- **Assembly**

Getting started with Geronimo

- **Download latest milestone release (M5)**
- **Installer**
- **Start the App server**
 - java -jar bin\server.jar
- **Deploy application**
 - java -jar deployer.jar deploy myapp.war

Deploying web application

- **Get/Create the war file**
- **Deploy the war file**
 - `java -jar jar/deploy.jar deploy myexample.war dplan.xml`
- **Invoke the web app through browser**
 - `http://hostname:8080/<context>/<app-name>`

Deployment tool – Deep Dive

- **java -jar deployer.jar deploy web-app.war**
- **java -jar deployer.jar list-modules**
- **java -jar deployer.jar stop MyApp**
- **java -jar deployer.jar list-modules --stopped**

Deployment tool – Deep Dive ... contd

- **java -jar deployer.jar redeploy web-app.war MyApp**
- **java -jar deployer.jar undeploy MyApp**
- **java -jar deployer.jar list-targets**

- **java -jar deployer.jar distribute web-app.war**

Demo/Screen shots

References

- <http://geronimo.apache.org/>
- <http://www-128.ibm.com/developerworks/opensource/top-projects/geronimo.html>
- www.gluecode.com
- **wiki.apache.org/geronimo**

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Thank you!

Srikrishnan Sundararajan
IBM India Software Labs
<srikrishnan@in.ibm.com>