JUD Con

JBoss Users & Developers Conference

2012:Boston



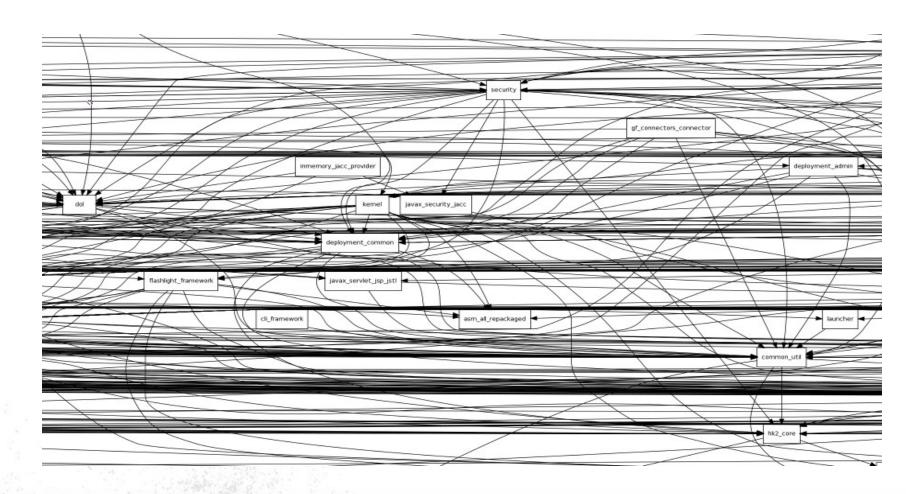
Tattletale

- What is Tattletale ?
- Enterprise archives
- JBoss Application Server 7
- Putting it all together
- Roadmap

Problems

- You are faced with a lot of Java archives and you don't know how they relate
- You need to know in which archive(s) a class is located or if it is missing from the class-path
- You need quick access to version identifiers and the OSGi status
- You need help with removing illegal API usage

Jar hell



Goals

- Help identify dependencies
 - within the project
 - on standard APIs
- Help getting an overview of all Java archives
 - which classes are provided
 - which classes are required
 - version information
- Help locate class information

Goals

- Generate reports that can help you improve the software quality of your project f.ex.
 - splitting your project into the right number of archives
 - removing black listed API usage
 - And all this without having access to the source code!!

Features

- Command line tool
 - java -jar tattletale.jar sourcedir outputdir
 - uses Javassist for its foundation
- Integrates with Apache Ant
 - <tattletale:report>
- Integrates with Apache Maven
 - tattletale-maven/report

Features

- Analyzer records
 - Archive information
 - Archive level dependencies
 - Package level dependencies
 - Class level dependencies
- Can resolve dependencies against standard profiles
 - JDK5, JDK6, EE5, EE6, Seam, CDI and Spring
- Ability to filter unwanted results from the reports

Reports

- Three categories of reports
 - Dependency
 - General
 - Archive
- Each report focus on a specific area
 - Severity: INFO, WARNING, ERROR
 - Status: GREEN, YELLOW, RED
 - Very easy to implement new reports
 - All reports are available in HTML

Dependency

- Class: Dependants, Depends On
- Package: Dependants, Depends On
- Jar: Dependants, Depends On
- Graphical Dependencies
- Transitive Dependants
- Transitive Depends On
- Circular Dependency

General

- Class Location
- OSGi
- Sealed information / Signed information
- Eliminate Jar files with different versions
- Invalid version / No version
- Multiple Jar files / Multiple Locations
- Unused Jar
- Black listed API
- JBoss AS7

Archive

- JAR
- WAR
- EAR

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Enterprise archives

- Tattletale reports for applications
 - -EAR
 - -WAR
- Remember to enable the profiles you are using
 - -EE5, EE6, ...

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JBoss Application Server 7

- Features
 - Unparalleled Speed
 - Modular Design
 - Exceptionally Lightweight
 - Elegant Administration
 - Strict Compliance
 - Easily Testable
 - First class, modern components
- JBoss Modules

Creating a shared module

- Create module structure
 - modules/com/acme/common/main
 - modules/com/acme/common/<slot>
- Copy resources to the directory
- Create module.xml which describes the module and its dependencies

module.xml

Declaring dependencies

- Linking our application to modules
- MANIFEST.MF
 - Dependencies: <module>[,<module>]*
- jboss-deployment-structure.xml
 - https://docs.jboss.org/author/display/AS71/Class+Loading+in+AS7

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Demo

- JBoss Application Server 7 QuickStarts
 - KitchenSink/EAR

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Roadmap

- Cover the enterprise archives
 - JBoss specific too
- XML format
 - HTML, PDF, ...
- Jenkins plugin
 - Initial release is out
 - Lead: Vaclav Tunka

JBoss Cake

- Extension developed by Red Hat Consulting
- Helps to migrate applications
 - Vendor to JBoss
 - JBoss to JBoss
- Custom reports
 - Vendor specific code (.java, .jsp, ...)
 - Deployment metadata

Links

- Latest: Tattletale 1.2.0.Beta2
- Homepage
 - http://www.jboss.org/tattletale
- Documentation
 - http://www.jboss.org/tattletale/docs
- Get involved through our forums
 - New reports
 - New enterprise archives

Links

- Git repository
 - https://github.com/jesperpedersen/tattletale
- Jenkins plugin
 - https://wiki.jenkins-ci.org/display/JENKINS/Tattletale+Plugin

Join our hack fest!

- Geek'ing out!
 - $-8.30 \text{ PM} \rightarrow 2.00 \text{ AM}$
 - Meet core JBoss developers and fellow hackers
 - Get a quick introduction to several projects
 - Start hacking on your issue of interest :)
 - Don't worry; I have enough tasks for you all!