WORKING WITH MAVEN IN ECLIPSE

Fred Bricon / @fbricon

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FRED BRICON IS ...

- Developer at Red Hat JBoss
- Working on JBoss Tools and Developer Studio
- Committer on m2e
- Project Lead of m2e-wtp

ABOUT M2E

m2e is the official Maven Integration for Eclipse plugin

- integrates Apache Maven to Eclipse's incremental build
- provides tight JDT integration
- is a Platform/Framework for others to build upon

M2E FEATURES

- Wizards for importing or creating projects
- Provides a powerful POM editor
- Launch configurations (to run maven)
- Automatic download of java sources
- Access Maven repository indexes

CHALLENGES

- Eclipse Platform/IDE has oustanding limitations
 - single compilation classpath(test==main)
 - no nested project support
- Maven plugins are not -always- fit for incremental builds.
 - sometimes execution is irrelevant
 - poor performance in IDE
 - can cause resource leaks, infinite build loops

LIFECYCLE MAPPING

m2e looks for **interesting** Maven build phases what plugins can be executed?

During an incremental build, maven plugin execution can be:

- ignored
- executed
- delegated to an m2e connector

LIFECYCLE MAPPING - CONT'D

Lifecycle Mappings can be stored:

- inside pom.xml
- at the workspace level
- inside Eclipse (m2e) plugins
- inside Maven plugins

ABOUT M2E-WTP



aven Integration for Eclipse WTP

- m2e sub-project, graduated from incubator
- provides a bridge between Maven (m2e) and Eclipse WTP
- now included in the Java EE Kepler distribution

M2E-WTP FEATURES

- Provides Java EE (->7) project facet integration
- Dynamic War Overlay support
- Dynamic Web Resource filtering support
- Eclipse to Maven project conversion
- Optional JAX-RS, JSF, JPA configurators

DEMO TIME

Let's create our own continuous integration server!

M2E ECOSYSTEM

- m2e-tycho
 - Build Eclipse plugins / OSGi
- JBoss Tools / JBoss Developer Studio
 - CDI, Hibernate, Portlet, GWT configurators
 - Maven Profile Management UI
 - Jar -> Dependency conversion
- SpringSource/Grails Tools Suite
 - Groovy support
- and m2e-wro4j, m2e-scala and more...

ANY QUESTIONS?

LINKS

- https://www.eclipse.org/m2e/
- https://www.eclipse.org/m2e-wtp/
- Lifecycle mapping
- Maven war overlays
- Filtering web resources
- Bugzilla