

Artifactory

maven repositories made easy

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- ▶ Introduction
- ▶ Enter maven
- ▶ maven repositories
- ▶ Artifactory features
- ▶ Artifactory in action
- ▶ Resources
- ▶ Q & A

- ▶ Software project development
 - ❖ compile
 - ❖ test
 - ❖ package
- ▶ Version control system
 - ❖ collaboration
 - ❖ release management
 - ❖ library distribution?

- ▶ Management for libraries is needed.

- ▶ Build management
 - ❖ building
 - ❖ testing
 - ❖ reporting
 - ❖ documenting

- ▶ Dependency management
 - ❖ central repository for dependent libraries

► Project Object Model (pom)

```
<?xml version="1.0" encoding="UTF-8"?>
<project>
  <modelVersion>4.0.0</modelVersion>
  <groupId>de.footprint.projects</groupId>
  <artifactId>my-project</artifactId>
  <version>1.0.0</version>
  <packaging>war</packaging>

  <dependencies>
    <dependency>
      <groupId>javax.xml.ws</groupId>
      <artifactId>jaxws-api</artifactId>
      <version>2.1-1</version>
    </dependency>
  </dependencies>
</project>
```

► Dependency tree:

```
de.footprint.projects:my-project:war:1.0.0
 \- javax.xml.ws:jaxws-api:jar:2.1-1:compile
    +- javax.xml.bind:jaxb-api:jar:2.1:compile
      | +- javax.xml.stream:stax-api:jar:1.0-2:compile
      | \- javax.activation:activation:jar:1.1:compile
    +- javax.xml.soap:saaj-api:jar:1.3:compile
    +- javax.annotation:jsr250-api:jar:1.0:compile
    \- javax.jws:jsr181:jar:1.0:compile
```

- ▶ `repo1.maven.org / repo2.maven.org`
 - ❖ Central maven repositories
 - ❖ Libraries have to be kept up-to-date by developers
 - ❖ Not all library versions may be available (yet)
 - ❖ Company intern libraries not available (and shouldn't be for public access)
 - ❖ Internet access needed

- ➔ Repository to provide internal and unavailable/pimped libraries needed

- ▶ Easy installation (Unix/Windows Service, WAR, Tomcat installation)
- ▶ User friendly admin interface
- ▶ maven artifacts management
 - ❖ UI upload
 - ❖ Auto generate POM
 - ❖ Nestable virtual repositories
 - ❖ Blocking of bad artifacts / bad checksums
 - ❖ Multi-format local imports
- ▶ Maven 1, 2 proxying

- ▶ Security
 - ❖ User / Group support
 - ❖ Role based access support
 - ❖ LDAP integration
 - ❖ Secured settings.xml passwords

DEMO

- ▶ Artifactory home:
<http://www.jfrog.org/products.php>

- ▶ Mailing list / Nabble:
<http://www.nabble.com/Artifactory-Users-f19964.html>

Questions welcome!