



Maven Repository Manager

Keeping track of it all



Why?

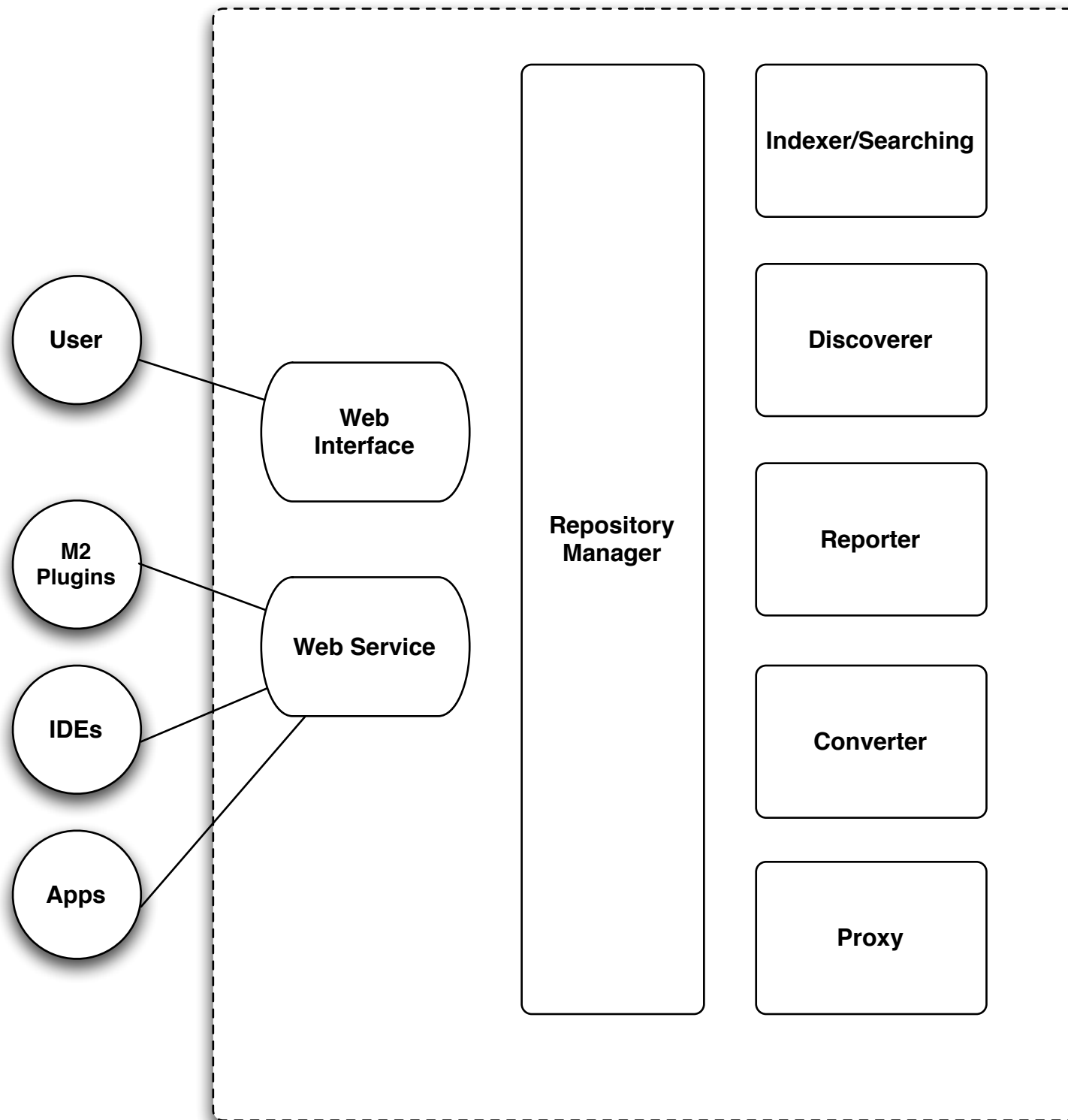
- A manageable view of the repository
 - Right now the predominant view is that provided by a web server
- Assistance in maintaining your repository
 - Modifying the repository is sometimes necessary and error prone when done manually
- Make it easy to maintain project metadata
 - Right now corrections to POMs are handled manually which is error prone
- Consolidate existing open source tools
 - Two proxy projects
 - Several search tools
 - We were supporting things we didn't write

Alternatives

- Jarhoo (slow, no longer free - \$2/wk!)
- Gauntlet (never went live)
- Maven Registry (Tim O'Brien, new)
- Maven.ozacc.com (out of date, m1 focus, been around for ages)
- CodeZoo, etc.
 - If we decide to add a project-centric approach rather than artifact-centric

Architecture

- Component-based
 - Uses Plexus
 - Easy to extend core functionality with new implementations of core component
 - Easy to extend via Plugins



Reports

- Repository Integrity
 - POM integrity
 - Checksums
- Dependency Analysis
 - Transitive closures
 - Graphing
- Artifact Specific reports
 - Maven Plugins
 - Archetypes
 - Plexus components

Synchronization

- Synchronize external repositories
 - This could be Ibiblio, or repositories provided by groups like Apache, Codehaus, JBoss
- Synchronize internal repositories
 - This could be repositories created by different departments or different teams
- Works with proxying capabilities to provide unified views of all repositories
 - Developers can point at one address
 - Like DNS for dependencies

Plugins

- Easy access to key components allows creation of custom functionality
- Uses the same plugin mechanism as Maven, Maven SCM, MavenWagon, and Continuum (1.1)

Possible Features

- Access control and workflow
- Channels approach (YUM)
- Assist build/QA teams with releases and testing with minimal Maven knowledge or developer intervention
- Advanced search capabilities
- Continuum integration
- RSS notifications
- Custom user dashboard