Quattor Maven Build Tools

C. Loomis (CNRS/LAL)

11th Quattor Workshop (CERN)
16-18 March 2011

Acknowledgements

- E. Ronchieri (CNAF)
  - Initial concepts, prototypes, and testing.

- L. Munoz (CERN)
  - Testing and documentation.

Configuration Modules

- Tools available:
  - Build plugins, configuration for full cfg. module
  - "Archetype" generation for new cfg. modules
  - Creates tarballs as well as RPMs

- Converting and creating cfg. modules
  - https://trac.lal.in2p3.fr/Quattor/wiki/Web/Using Maven

"Mavenified" Quattor Tools

- pan

- pan-templates
  - Creates tarballs of standard templates
  - Organization, build scripts need to be reviewed

- ncm-query & ncm-cdispd
  - Prototype build scripts in place
  - Need to only run rpm packaging when available

- Others to be done…

Making Releases

- "Magic" to do a release is easy:
  - mvn clean release:prepare release:perform
  - Builds, tags, uploads packages, makes "site", increments version

- Permissions
  - Write access to nexus repository for packages
  - Write access to SF website for "site" information

- Allow anyone from command line to make releases?

- Use continuous integration server for releases?

Continuous Integration

- Benefits:
  - "Instant" builds when new code is checked in
  - Regular builds of all software
  - Dashboard and history of builds
  - Can create "jobs" to perform releases
  - Known, reproducible build environment
- Downsides:
  - Another server to support (no SF option)
  - Need to manage identities

Discussion

- Release process
- Continuous integration server?
- Plans for converting cfg. modules
- Plans for converting other Quattor tools