

Koji, the package building framework

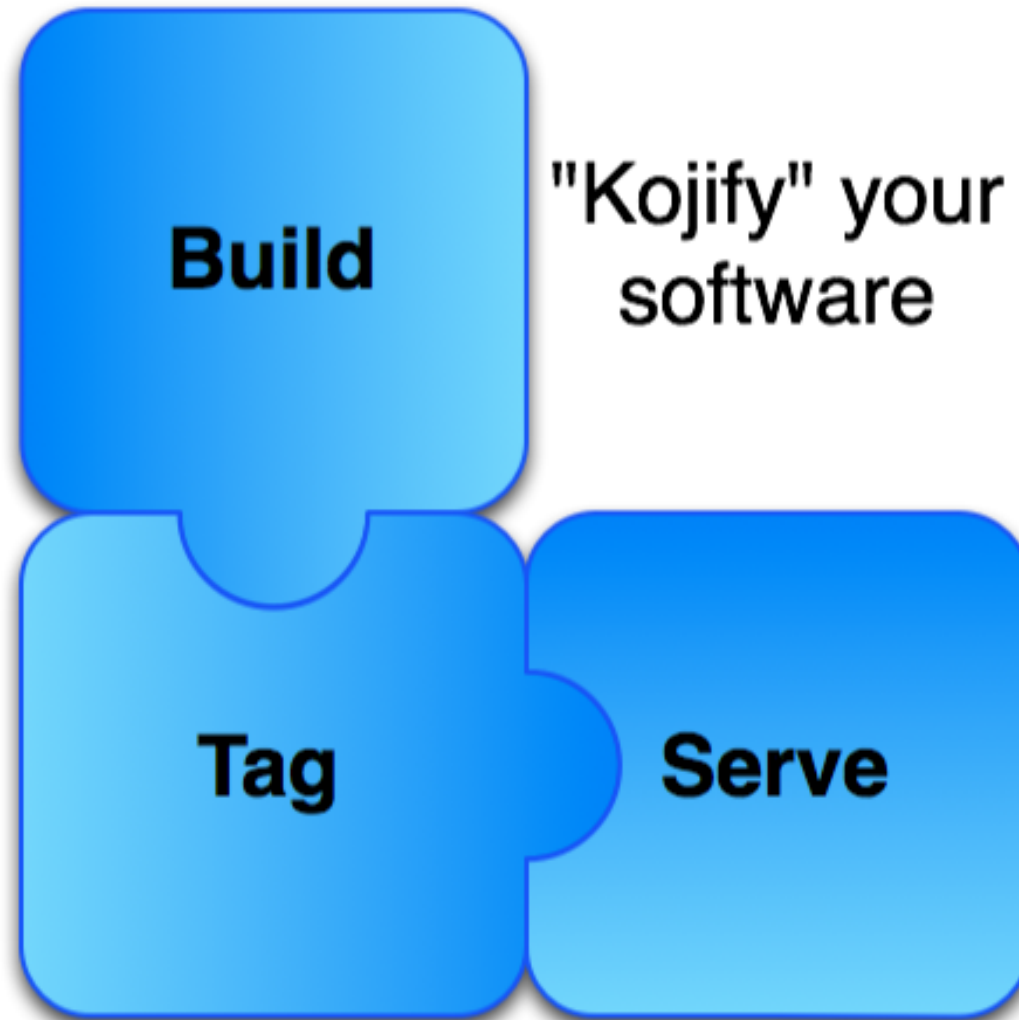
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Package building infrastructure done right 😊

- Clearly separated services that achieve one specific task
- Scalable according to the needs
- Supported by a large, active community

Build, tag, serve procedure



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Build

- Use of well known SCMs
- Submit a build task
- Let koji do its magic
 - Checks-out the SCM
 - Prepares the source RPM
 - Builds the package from SRPM

A blue, rounded rectangular button with a white border and a drop shadow. The word 'Build' is written in bold, black, sans-serif font in the center of the button.

Build

- Scratch builds
 - Test your build
- Mock build environment
 - Requirements in .spec file
- Build logging
 - Detailed logging
 - Build logs are available for future reference
- 1-click resubmit for failed tasks



- Trend ☺
- Types
 - Project/application specific
 - Rollout process specific
- Authorization
- Inheritance



- EGI JRA1 SAM case
 - Stage tags
 - Development tag
 - Testing tag
 - Release tag
 - Per release tag
 - Each SAM update

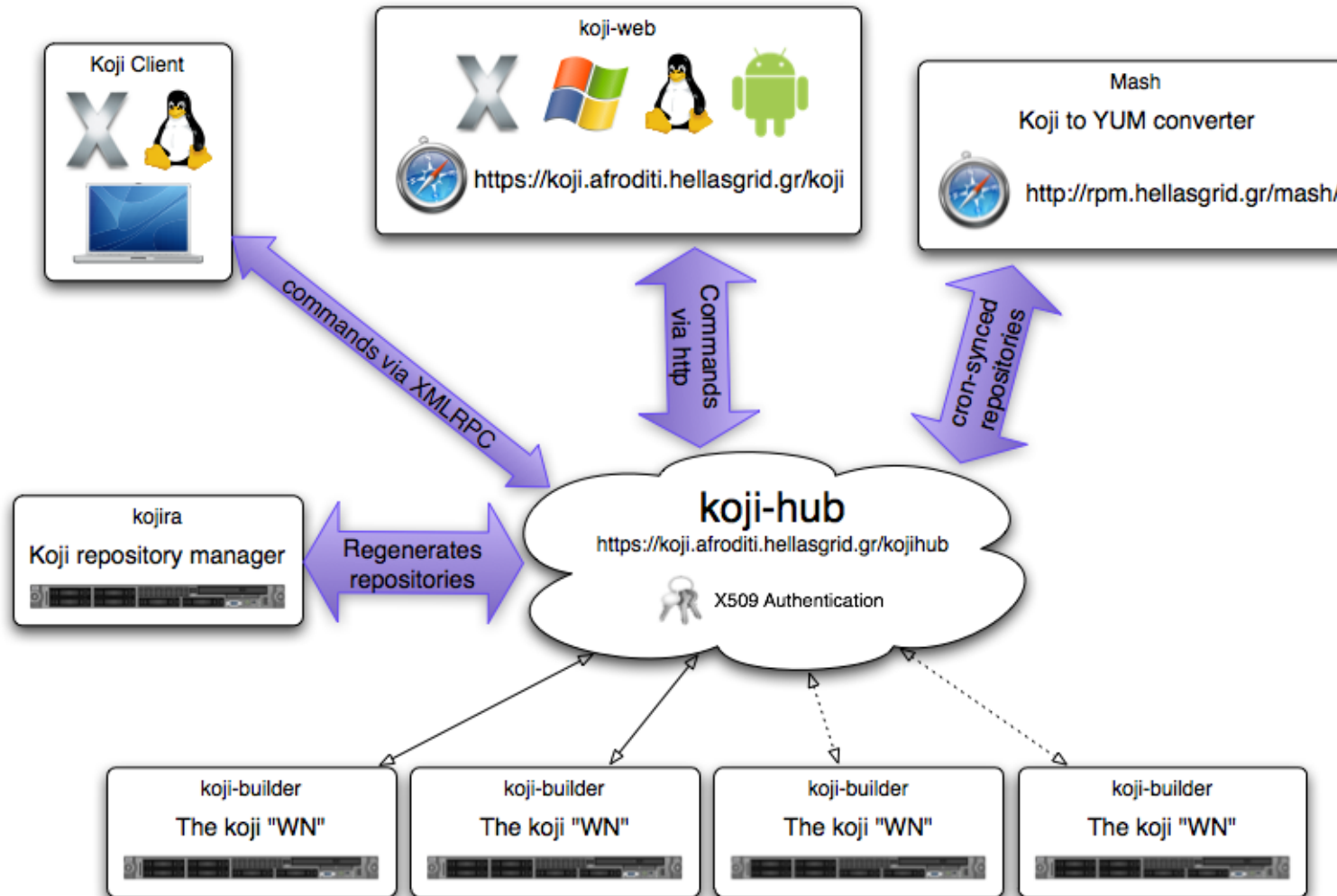


- Usable by default
 - YUM repositories for machines
 - Repoview for humans
 - SRPMs for developers
- Based on tags
 - No need for new grouping
 - Staged rollout
- Rsync it
 - Serve it yourself
 - Available on request basis



HellasGrid case

- Many package providers
- Source not always available
- Other build-tools in place
- Koji's solution
 - One tag per provider
 - Inheritance



- RPM based distributions
 - Fedora
 - Centos/SL(C)/RHEL
- Our current setup
 - Centos 4
 - Centos 5
 - Centos 6
 - Fedora 14

- Support more distributions
 - On request basis
- Package signing
- Deb package building and repository management

- Outside our community
 - Fedora / EPEL
 - Kolab Systems AG
 - Acoos France
 - Spacewalk
 - Amazon
 - TomTom
- In our community
 - EGI SAM
 - CERN
 - OSG
 - National Nanotechnology Network Grid (Russia)
 - Caltech

- Try it now
 - IGTF CA certificate
 - mail to: support@grid.auth.gr
 - Test tag for Centos5
- Use it for your project / product / group
 - Name / description
 - Needs
 - Supported OSes
 - tag policy
 - members



Thank you

For more info:

- Find me and our poster at the poster area
 - Don't forget to vote
- Mail us at support@grid.auth.gr