Koji and Pulp: The rpm Saga

A Tale Of rpm Packages and Repositories

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Today's Topics

1. Koji

   a) What is Koji?

   b) Why should we use Koji?

   c) How do I use it?

2. Pulp

   a) What is Pulp?

   b) Why should I use Pulp?

   c) How do I use Pulp?

3. CentOS has weird Errata Management!

Koji

What is Koji

- rpm building automation tool
- Central place to check out the logs
- Uses Mock, rpm-build, createrepo, yum
- Create a chroot for every build
- Used by Red Hat, Fedora Project, CERN etc.

Why Should We Use Koji

- Central view of build logs

- Packages stored and assigned to the builder

- Configurable repo for each tag

- Different for different teams

- Minimal pre-installed packages in mock

- Dependency resolution using yum

How do I use Koji

- Kojihub: write to file system, assign tasks

- Kojira: Repo admin, merge repos

- Kojid: Actual builder, runs mock, polls kojihub

- Kojiweb: The web frontend for logs and tasks

- Koji: CLI tool for managing tasks, users, repos

DEMO

Pulp

What is Pulp?

- Python app for repo management
- Can handle both on-site and online repos
- LDAP integration possible

Why Do I Use Pulp?

- Mirror Repos

- Manage erratas

- Push updates to all/a group of consumers

- Different repos for different consumers

- Remotely install packages

How Do I Use Pulp

No Weird Terminology here!

Let us go to DEMO

CentOS has WEIRD errata

- Traditional:
  - repomd.xml has updateinfo.xml.gz
  - updateinfo.xml.gz has location and info on errata
- CentOS:
  - Mailing List!
  - No Automation!
  - Do it Yourself

  Welcome centos-errata-builder.py ;)

Questions?

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