

Gach: Doing the grunt work

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What all I have to make you sleep?

- Introduction
- Motivation
- Use cases
- Where it fits in Fedora ?
- Basic Design
- Scope
- Some cmdline demo ;)
- Questions ?



Introduction

- Review report
- Automate guidelines
- Current status:
 - * Targeted release: Fedora 11
 - * Percentage of completion: 15%
- Where: <http://fedorahosted.org/gach>
- How to get involved: Catch us!
 - rishi@fedoraproject.org
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Motivation

- High standards of packages
 - Ever increasing queue and repo size:
 - Estimate: with same speed we will beat debian in few years.
 - Less number of reviewers
 - Help reviewers
 - Grunt work – no one interested
- ““““<tibbs|h> Mother of god, the reviews just don't stop coming in.””””



Use cases

- * A newbie submitting a package wants to do an automated review on the Spec/SRPM that he/she is going to submit.
- * A reviewer wants to run a Spec/SRPM through the mundane steps of running them through RPMLint, building it in Mock/Koji, etc..
- * Maintainers, release engineers, derived distributors wants to audit an entire repository for packaging guideline violations, build failures, etc..



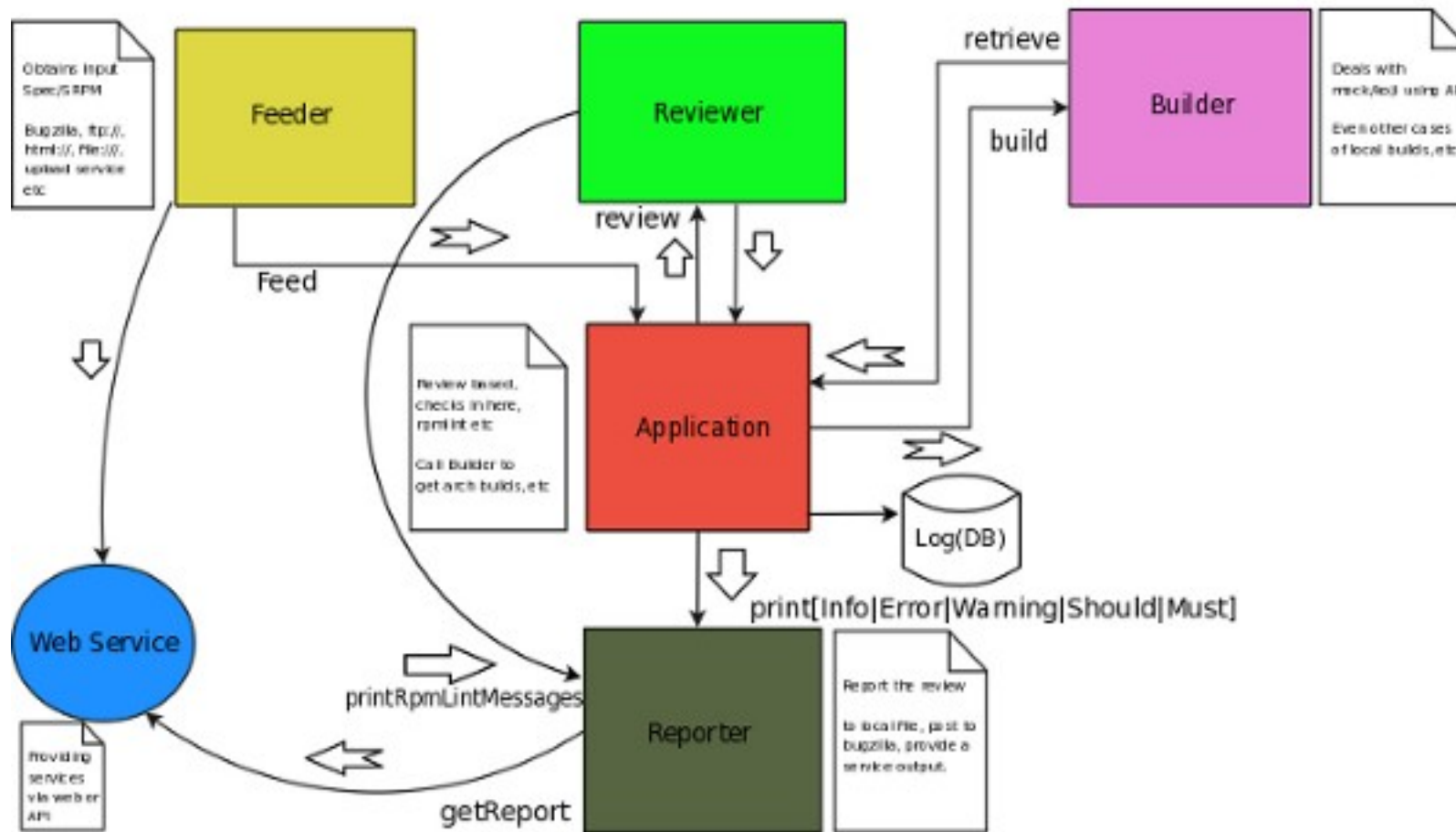
Where it fits into fedora ?

- Fedora services: Koji, bodhi, bugzilla, pkgdb
- Fedora programs:
 - * python-bugzilla,
 - * fedora-python,
 - * mock & rpmlint
- One more services ?



Basic Design

Review-o-Matic Architecture Diagram



Some details:

- Feeder
Interface to local m/c, bugzilla or via web
- Reporter
Output to local file, stdout, bugzilla, web or via any service
- `<Code>` Shift to terminal



Some details:

- Builder
Interface to koji or local mock
- Services
Fedora Service or some independent local services
- `<Code>` Shift to terminal



Some details:

- Application
 - * Manage whole workflow with Callbacks to check progress
 - * Provide a mechanism to skip
- Database
 - * Logging



Some details – Core Module:

- Reviewer (Main)
 1. Use rpmlint
 2. Other Checks:
 - * Checks based on RPM, SRPM, SPEC
 - * Hybrid Checks
- How to make Checks ?
 - * Independent of project ?
 - * Guidelines
- `<Code>` Shift to terminal



Where to put checks ?

- Rpmlint – yes you heard it right.
- If not possible here. In reviewer.
- `<Code>` -- shift to terminal for example Check

Scope

- Develop the workflow (status: 70% done)
- Writing Checks (status: 1% done)
- FESCo and community
- Fedora – actual scope



Why Gach ?

Ref: <https://www.redhat.com/archives/fedora-devel-list/2009-January/msg00329.html>

- > The problem is that the terribly named "ReviewOMatic" can't actually
- > automatically review anything; a human is still required.

“What is in a name? It can be changed.”

Question ?

Project Page: <https://fedorahosted.org/gach/>

Mailing List:

<https://fedorahosted.org/mailman/listinfo/gach>

Code:

<https://fedorahosted.org/review-o-matic/browser>

Rakesh Pandit

Fedora Package Maintainer

Developer (Gach, Inetutils, Openoffice, rpm etc)