Let's integrate your project into Red Hat's ecosystem

RHEL, Fedora, open source, partners and contributors

Stef Walter
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Introduction

• Stef Walter
  ○ Senior Manager
• Tomas Tomecek
  ○ Principal Software Engineer
Why?

- Our partner and upstream projects are integrated together in a Linux distro.
- Neither partners nor upstream have immediate feedback on how rest of distro is affected.
Why? (cont’d)

- We all contribute back upstream individually.
- But the distribution itself is invisible in the workflow of those projects.
Why? (cont’d)

- Let's be clear: packaging software is not exciting.
- Having latest greatest bits integrated with the rest.
  - That's exciting!
Introducing: Packit Service

- Connect upstream projects with Red Hat's ecosystem.
- Build your upstream project for Fedora.
- Be informed right away that your change does not build in RHEL.
- Verify a change in the ecosystem.
- Automated delivery.
- RPM is the king.
- Available as an on-demand service or as a CLI tool.
Packit Service

● Current status: preview.
● We are looking for your feedback.
● Not ready for general usage, yet (we are sorry).
MORE PICTURES, PLEASE
Packit-as-a-Service

Packit (https://github.com/packit-service/packit) as a service.

Permissions

✓ Read access to code

✓ Read access to metadata

✓ Read and write access to issues and pull requests
GitHub Apps augment and extend your workflows on GitHub with commercial, open source, and homegrown tools.

- Packit Testing
- Packit-as-a-Service
TomasTomecek wants to merge 1 commit into packit-service:master from TomasTomecek:test

TomasTomecek commented just now

Signed-off-by: Tomas Tomecek ttomecek@redhat.com

Add more commits by pushing to the test branch on TomasTomecek/hello-world.

Some checks haven’t completed yet
1 pending check

packit/rpm-build Pending — The RPM build has started.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request or view command line instructions.

#redhat #rhsummit
Congratulations! The build has finished successfully.
You can install the built RPMs by following these steps:

- `sudo yum install -y dnf-plugins-core` on RHEL 8
- `sudo dnf install -y dnf-plugins-core` on Fedora
- `dnf copr enable packit/packit-service-hello-world-2`
- And now you can install the packages.

Please note that the RPMs should be used only in a testing environment.
Workshop

1. Build and deploy a change to your upstream project as an RPM for Red Hat Enterprise Linux 8.
2. Propose, build, deploy and validate a change to Fedora systemd.
First use case (RHEL)

- We have an upstream project.
- And we want to run it on Red Hat Enterprise Linux 8.
First use case (RHEL)

- https://github.com/packit-service/hello-world
- Please, send a PR!
First use case (RHEL)

● Once the builds are done, let’s deploy:
  ○ podman run --rm -ti registry.access.redhat.com/ubi8-dev-preview/ubi
  ○ cd /etc/yum.repos.d/
  ○ yum install -y hello
How did we do this?

- packit config
- spec file
Second use case (systemd)

- We'll start by looking at the systemd version we have in Fedora 29
Second use case (systemd)

- Let’s send the pull request now!
The future?

- Publish to GitHub marketplace.
- What would you like to see in future?
- What features are missing right now?
- Should RPM packaging be more seamless?
  - Are spec files meant to be easier to use?
Thank you for coming!

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