

FEDORA RAWHIDE PACKAGES GATING, FOR REAL!



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AGENDA

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- Glossary
- Why gating rawhide?
- The challenges
- State of the art
- Debugging
- Roadmap
- Surprise

GLOSSARY

- Rawhide
 - The, rolling, development version of Fedora
- Dist-git
 - A collection of git repositories (spec + patches)
 - the lookaside cache (sources)
- Koji
 - Fedora's build system
 - Builds are managed in tags
 - Side-tags
 - Tag based on another one and isolated from other tags



GLOSSARY (2)

- Bodhi
 - Fedora's update management system
- Fedora-messaging
 - A amqp based message-bus
- Robotsignatory
 - Message-bus-based application signing builds



WHY GATING RAWHIDE?

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- More stable rawhide
- Working composes
 - Quicker turn-around for beta-releases
- Faster update release

you break it, you fix it



THE CHALLENGE

- Make it happen
- Fit in in the existing tooling
- Interrupt as little as possible the packager's workflow
- False negatives



THE PLAN

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- Phased roll out
 - Single build update gating
 - Multi build updates gating
- Early user feedback

Polished UX



THE STATE OF THINGS

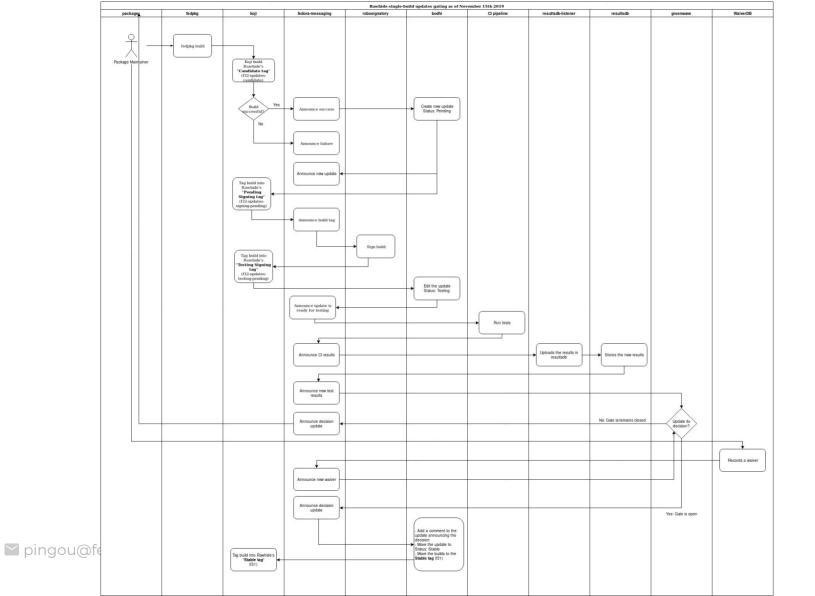
- Single build updates are gated in rawhide
- Multi builds updates are gated in rawhide





Single build gating

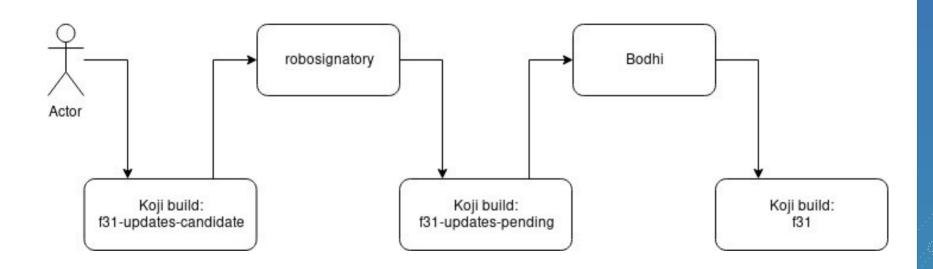






SINGLE BUILD GATING (SIMPLIFIED)



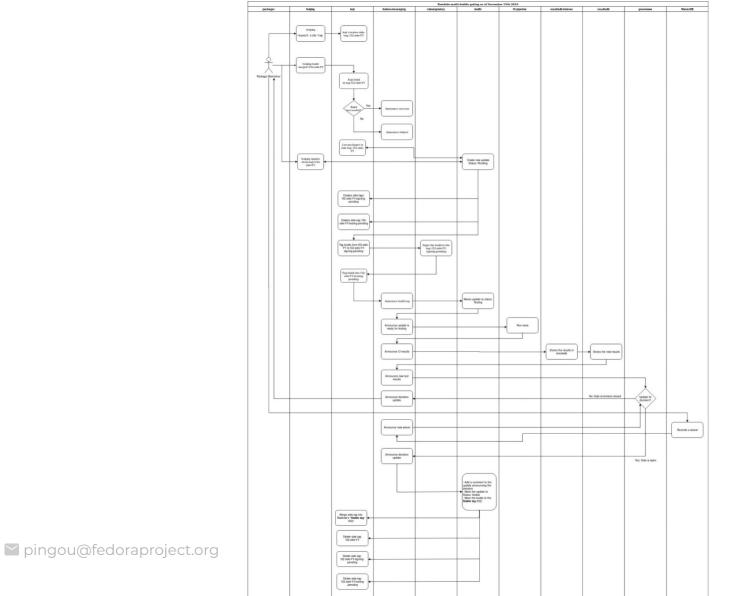






Multi-builds gating

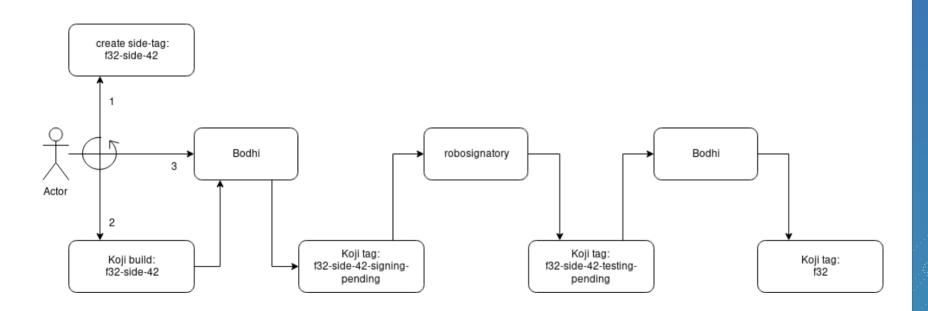






MULTI-BUILDS GATING (SIMPLIFIED)

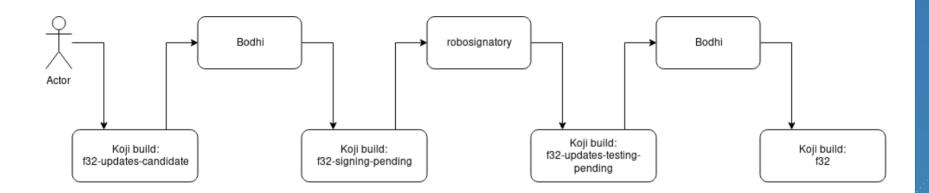






SINGLE BUILD GATING (SIMPLIFIED - UPDATED)

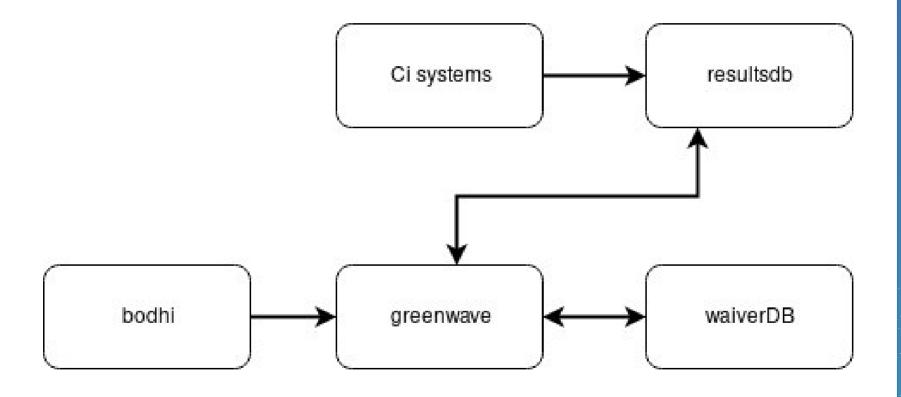






THE GATING DECISION FLOW







DEBUGGING

- Check the koji tags
 - ``koji buildinfo <nvera>``
 - -updates-candidate / side-tag
 - Single build only / Multi builds only
 - -signing-pending
 - Waiting on robosignatory
 - -testing-pending
 - Waiting on the CI system / Gated



DEBUGGING (2)

- Check the state of the update in bodhi
 - Pending == Not signed
 - Testing == Tests are running/Gated
 - Stable



USER FEEDBACK

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- # of emails from bodhi
 - 5 to 3 for single-build rawhide updates
- New UI in bodhi 5.0
 - Copy/paste build(s)
 - Builds list should be space delimited
 - Still some performance issues when querying koji for builds
- Disable comments on stable updates
 - Reverted



ROADMAP

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- Optimize testing and reporting test results for groups (multi-builds updates)
- Better test suite
 - rpminspect
 - Reverse-dependency testing
 - Install/Upgrade/Downgrade...
 - Impact on composes
- Distro-level testing



ROADMAP (2)

- Regular canary testing
 - Single build update
 - Multi-build update
- Mass-rebuilds
 - Signing builds



SURPRISE!

On-demand side-tag



SURPRISE!

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- On-demand side-tag
 - For rawhide but not only!
 - fedpkg chain-build works for stable releases!



THANK YOU

ANY QUESTIONS?

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