



CPE Year in Review

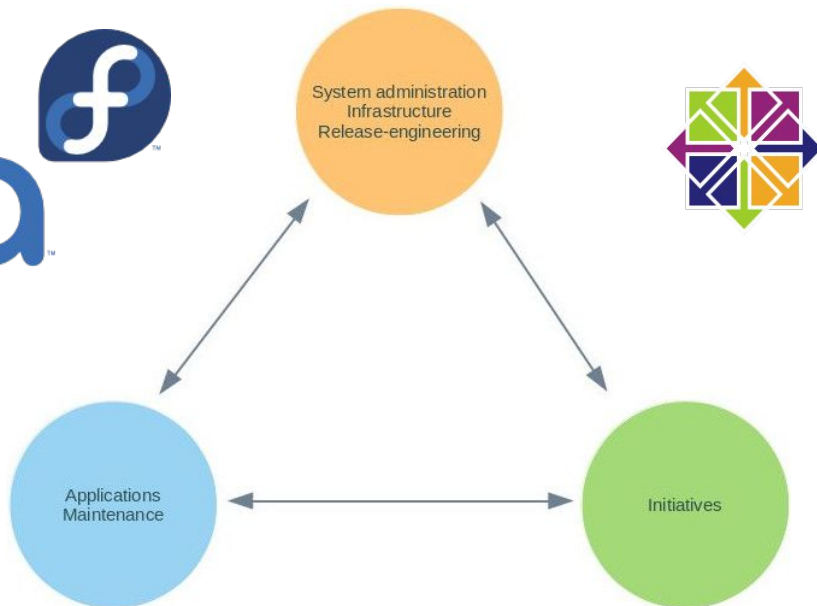
The Community Platform Engineering
Team

Leigh Griffin, Engineering Manager
Pierre-Yves Chibon, Technical Lead
Aoife Moloney, Product Owner



Our Scope

Mission Reminder



CentOS

Our New Logo:

Lots of Symbolism in it and with thanks to Mo Duffy and her creative ability :)

'go raibh maith agat Máirín'



Scope of Responsibility: Services

- Last Flock our scope was ~130 services that we had designated ownership of
- 56 Applications we designated as Run and Maintain
 - This means we are on the hook for bug fixes, upgrades, enhancements
- 35 Applications we Host only
 - We provide Power and Ping
 - We try and restart where we can
 - We have no domain knowledge of the Application
- Struggling to reduce that number because invariably it is useful to some people
- Difficult decisions will need to be made with the community over the coming year particularly as GDPR means we cannot gift the app to someone -- we lose the data

Scope of Responsibility: Infrastructure

- Fedora
 - 117 physical systems
 - 250 Virtual Systems
 - Multiple ex-VMs that are now OpenShift pods that are coming back online post colo
- CentOS
 - 147 physical servers
- CentOS CI
 - 278 physical servers
- Regular maintenance, patches, security updates, networking, backups, hardware upgrades, warranties.....

Team Composition

- Several new hires joined CPE in the past year
 - Expanded our Infra team with 2 new hires
 - Replaced team members in our development side
 - Product Owner role created
 - Expanded the management team to adjust to growing numbers
- Infra / Sys Admin: 5
- Releng: 2
- Software Engineering: 14
- Documentation: 1
- Intern: 1
- Agile Practitioner: 1
- Product Owner: 1
- Management (People): 3

Projects we Completed (Flock to Nest timeframe)

Projects & Their Community Value

- Rawhide Gating
 - Gate rawhide packages before they land in the buildroot
 - Fully automatic (when all goes well)
 - Multi-months (years?) effort
 - Multi-systems and teams
 - Fedpkg
 - Koji
 - Bodhi
 - Fedora CI
 - greenwave/waiverdb
 - Late 2019



Projects & Their Community Value

- Noggin
 - Replaces FAS2
 - FAS started in 2008
 - Python2 only
 - TurboGears 1
 - Runs in a RHEL6 container
 - Self-service/Community portal for FreeIPA
 - Modern:
 - FreeIPA for the backend
 - 2FA built-in
 - Python3, unit-tests, Flask, OpenShift...
 - Multi-months (work started in January)
 - Multi-teams (CPE, IPA)
 - Multi-communities (Fedora, CentOS, OpenSUSE)

Projects & Their Community Value

- CentOS-Stream
 - Red Hat's effort to open its build pipeline
 - Multi-months (work started in fall 2019)
 - Multi-teams

Projects & Their Community Value

- DNF counting
 - Better statistics based on the `countme` value that dnf now sends (~once a week) when retrieving the repositories metadata.
- Fedora-messaging
 - A number of applications have been ported from fedmsg to fedora-messaging
 - Still some work to be done to add message schemas to them
 - Required to replace FMN
 - Required to upgrade datagrepper
- Toddlers
 - “A bunch of small programs running around”
 - Plugin-based fedora-messaging consumer
 - Sync people from FAS to bugzilla
 - Flag commits on successful build
 - Flags PRs on CI run
 - ...
 - (Sync Assignee/CC from dist-git to bugzilla)
 - Step forward in retiring fedmsg

Projects & Their Community Value

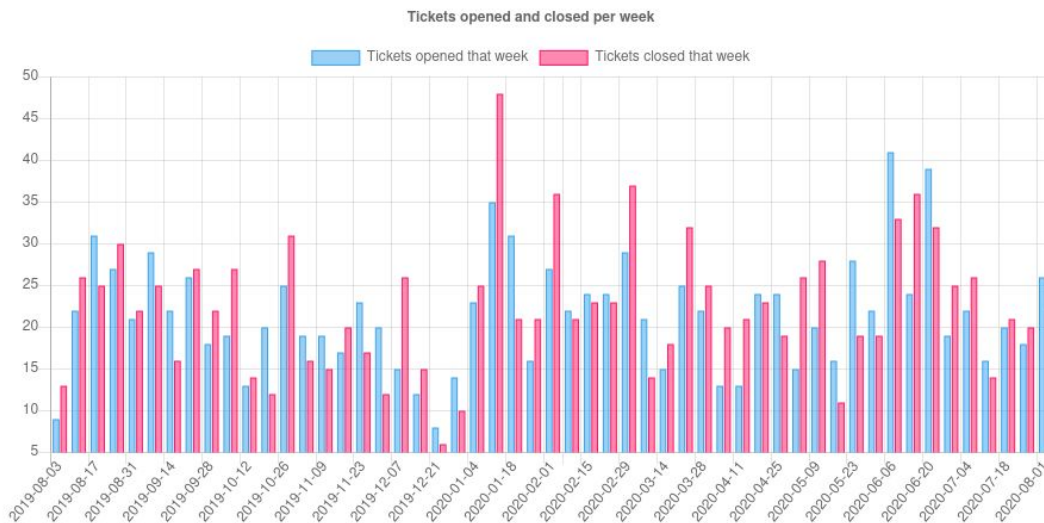
- EPEL8
 - Setting up the build environment
 - Build the initial buildroot
 - Initial work for Module support
- MBBOX
 - Module Build in a Box
- rpmautospec
 - Getting rid of changelog and release fields in spec files
- Monitor-gating
 - How well is the packager workflow working?
 - End-to-end testing
 - Involves more than 10 systems (fedpkg, dist-git, koji, bodhi, sigul, fedora-messaging, CI...)
 - Happy path

And Oh yeah... A Data Centre Move!

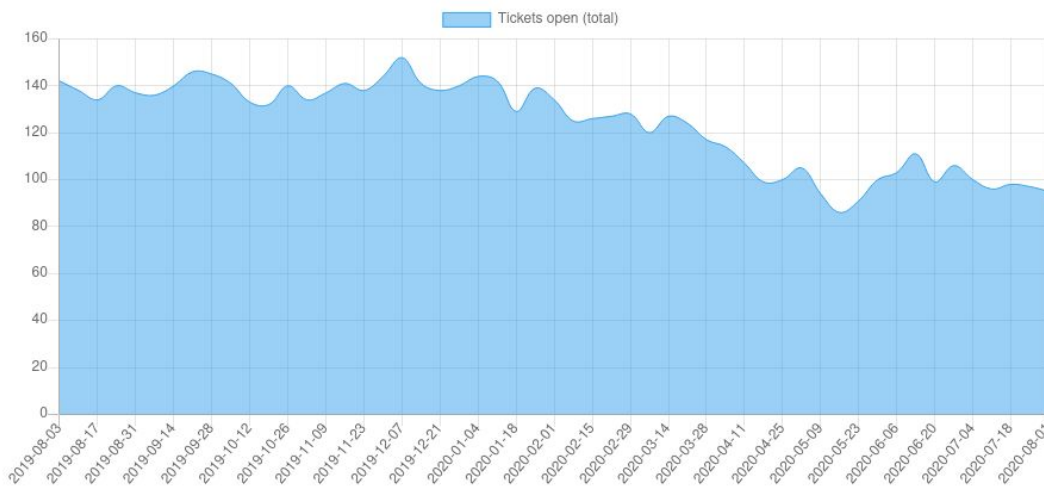
Some Fun Numbers

- 107 Servers Moved
- 76 Servers retired
- 31 affected services
- 23 weeks of moving
- 20 transit days
- 12 months of planning and executing
- 8 immediate team members from Red Hat IT and CPE
- 3 data centres
- 3 managers 'managing'
- 2 sys-admins holding down the fort
- 1 Product Owner praying
- And a partridge in a pear tree

And Oh yeah...
business as usual



Evolution of the number of open tickets over the last year



How to work with us

Why, Who, How?

WHY

- Create structure for the team by pre-planning our work
- Set expectations for our teams stakeholders
- Establish clear goals that our project teams can deliver on

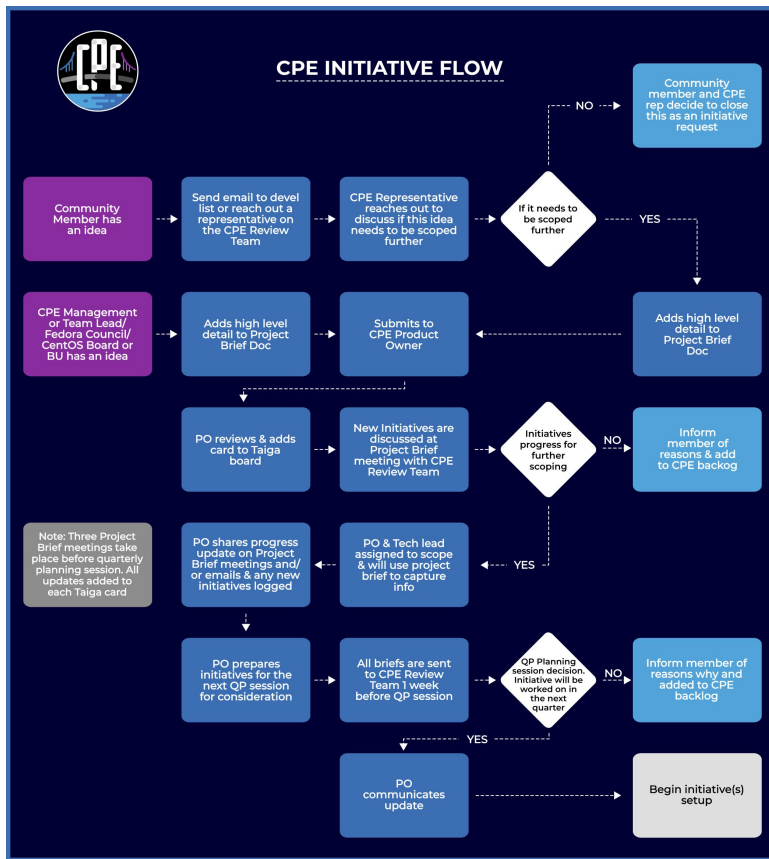
WHO

- CPE Review Team - Management, Team Leads, Product Owner
- Community Reps - Fedora & CentOS
- Business Rep - Red Hat

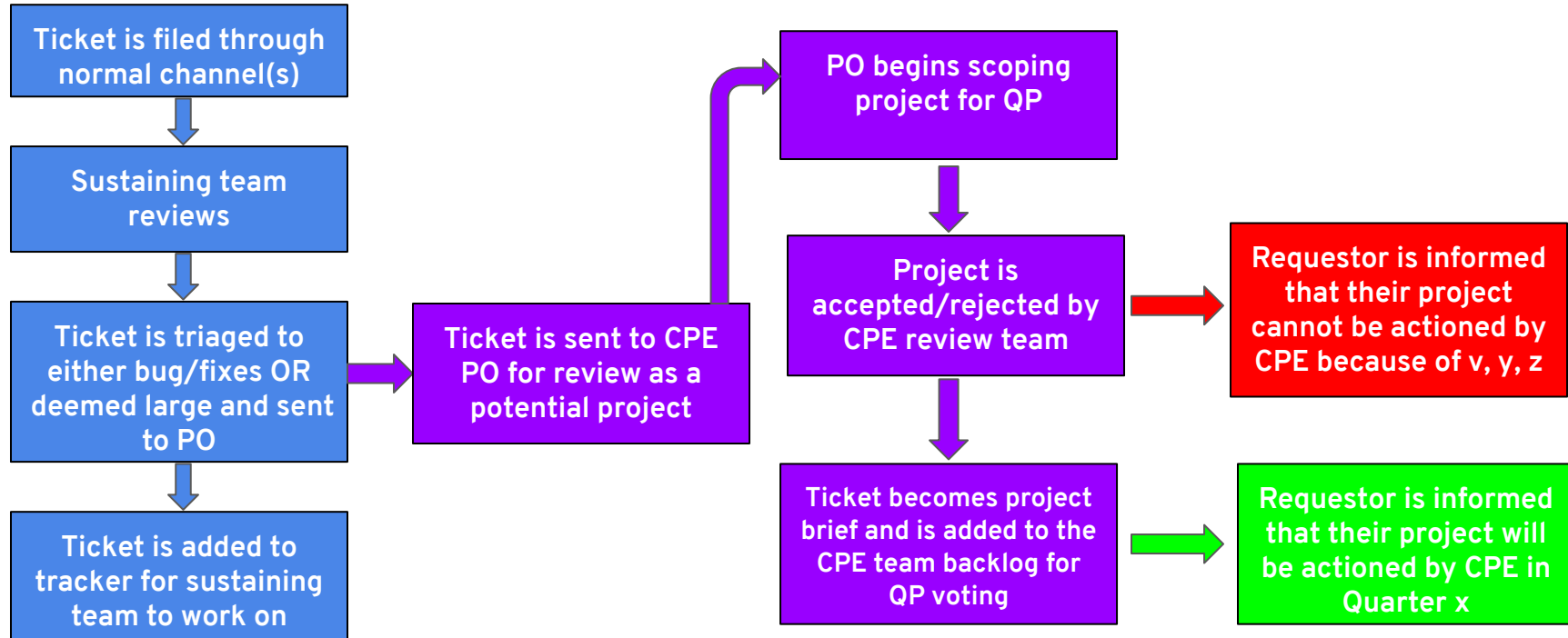
HOW

- Email - amoloney@redhat.com (for project requests)
- Open A Ticket - normal channels
- Message - #redhat-cpe or amoloney on Freenode
- Join my weekly office hours, Thursdays at 13:00 UTC #fedora-meeting1

CPE New Initiative Process



The Community Edit



Community feedback on the process so far

- Continue to communicate regularly on projects & updates
- Less acronyms & abbreviations in comms :)
- Publish team members timezone on docs.fpo/cpe to help define our ‘working hours’
- Publish the workflow diagram to docs.fpo/cpe and add filtered versions that are user specific
- Office Hours on IRC are a useful way to contact team Product Owner
- Public tracker for bugs

Key Dates for Your Diary!

August 30th - Complete our Survey (sent to devel, infra)

September 9th - New Initiative Submission Deadline

September 18th - CPE Quarterly Planning Session

September 30th - Quarter 3 ends

October 4th - Quarter 4 projects begin

Managing our Workload

- Tackling our Business as Usual / Lights on Work for Fedora
 - Currently it's taking >50% of the total available team
 - This leaves very little room to innovate and build new things
- Technical Debt focus for the upcoming year
 - Recent colo move almost killed our ability to service the project
 - Need to make hard decisions and retire applications
 - Need to reauthorize some key applications
- Getting more help on our workload
 - Help is always appreciated
 - <https://fedoraproject.org/wiki/Infrastructure/GettingStarted>
 - #redhat-cpe on Freenode
 - Join any of the weekly IRC meetings we are involved in


Better Communications

- Lessons were learned from the Gitforge ODF
 - Higher touch point on comms needed
 - More direct feedback with the Community and not through our stakeholders
- We have a survey we would love you to complete:
 - <https://fedoraproject.limequery.com/696793?lang=en>
- We want to involve you more in our comms and our planning
 - Let us know what is working
 - Let us know what we can improve on
 - Let's continue to work together


Open Q&A

Contact any of us with questions:

{lgriffin,amoloney,pingou}@redhat.com

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