

From Request to ROI: Tracking your Company's Investment in Open Source & Compliance

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Open FinTech Forum October 11, 2018



Comcast Open Source Program Office

Opened beginning of 2017
4 person team
Support 7k+ developers
Support ~150 project repos on
GitHub

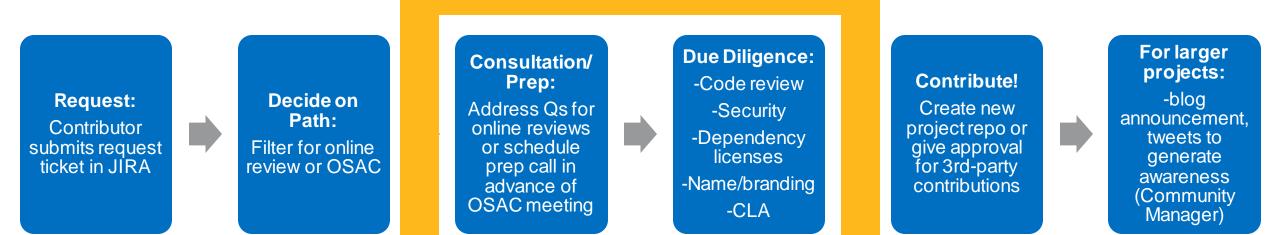


Members of Open Source Advisory Council

- •OSPO
- Legal
- Strategic IP/Patents
- Engineering
- Security



Open Source Contribution Request Flow





Pre-Approval Checkpoints

- √ Legal, Strategic IP part of OSAC
- √ Security code review part of OSAC; additional assessments as advised
- √ Compliance dependency check and license scans
- √ Naming, branding/logo

Post-Approval Checkpoints

- √ Repo creation (Github management)
- √ Repo Linter from TODO Group

What's the ROI?

- √ Releasing secure code
- √ Complying with license obligations
- √ Fostering better ecosystem for scanning tools, machine readability for our projects





Where engineers can help...

- Catching projects at the beginning is great, but what about projects that have been out there for years?
- How do we know which projects need attention or need help with attracting contributors?
- Looking at compliance from multiple angles helps us play catch up



Invest in review

- Invest in review as a way to improve our relationship with the OS community and be a good corporate citizen
- Make sure we have the correct licenses on existing OS projects (code of conduct, etc.)
- Make sure are internal projects are using the complying with our open source license policies





Metrics

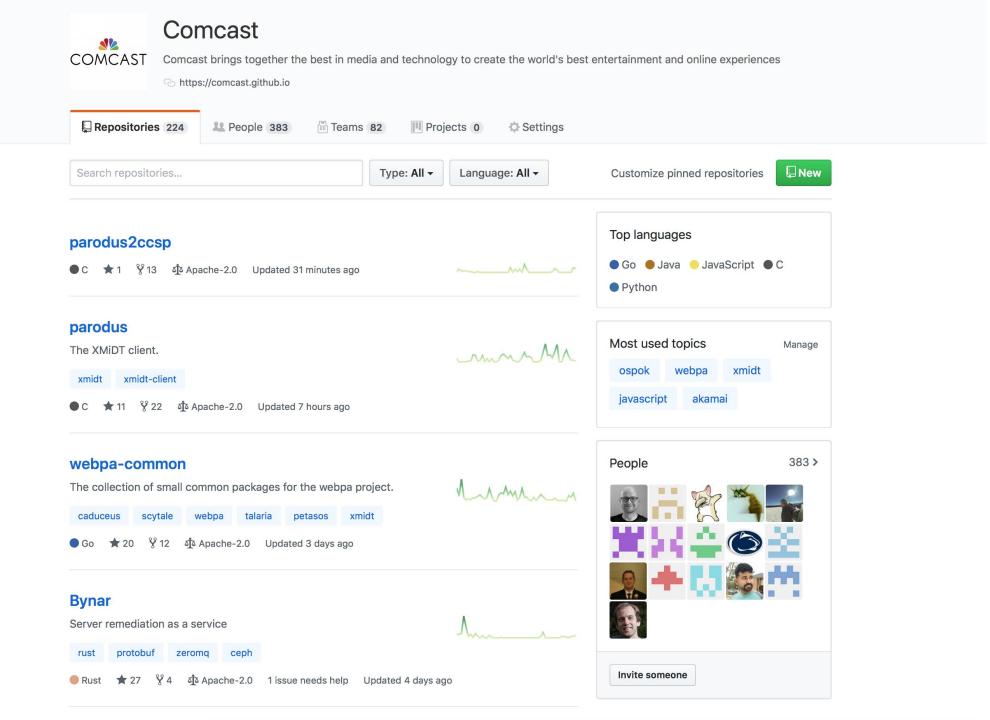
- Which projects are we contributing to?
- Are people outside of Comcast contributing to our projects?
- Which developers are actively contributing to open source projects?
- Which Comcast projects have an active community?

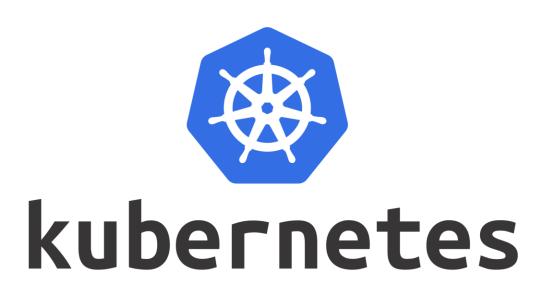


Metrics

- Use to showcase our work and activity in open source to leadership
- Involvement in CHAOSS community
 - -Presented our work at 2nd annual conference in Vancouver (colocated with the Open Source Summit)





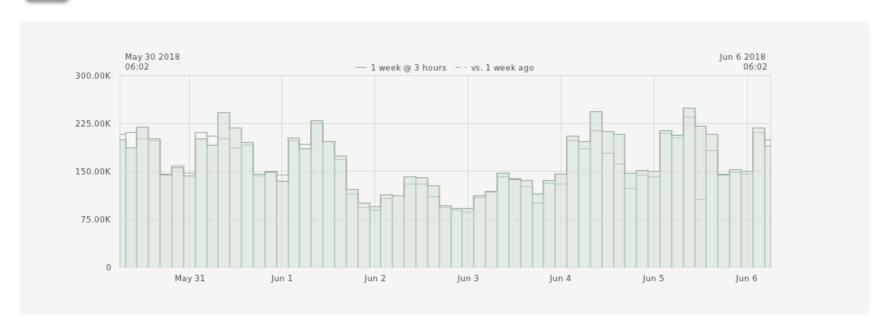








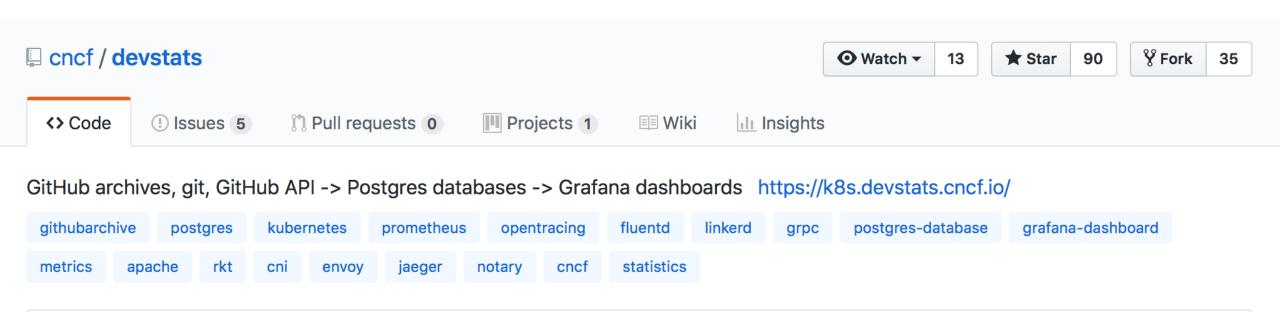




Open-source developers all over the world are working on millions of projects: writing code & documentation, fixing & submitting bugs, and so forth. GH Archive is a project to **record** the public GitHub timeline, **archive it**, and **make it easily accessible** for further analysis.

GitHub provides 20+ event types, which range from new commits and fork events, to opening new tickets, commenting, and adding members to a project. These events are aggregated into hourly archives, which you can access with any HTTP client:

Query	Command
Activity for 1/1/2015 @ 3PM UTC	wget http://data.gharchive.org/2015-01-01-15.json.gz
Activity for 1/1/2015	wget http://data.gharchive.org/2015-01-01-{023}.json.gz
Activity for all of January 2015	wget http://data.gharchive.org/2015-01-{0130}-{023}.json.gz



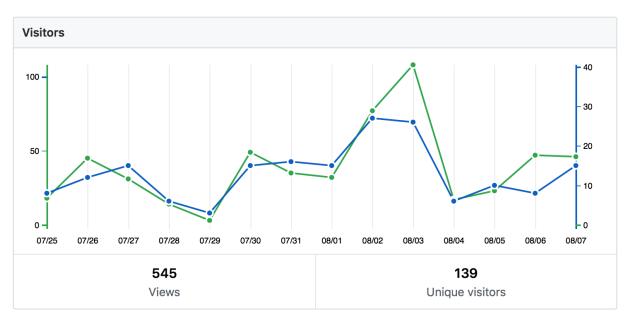




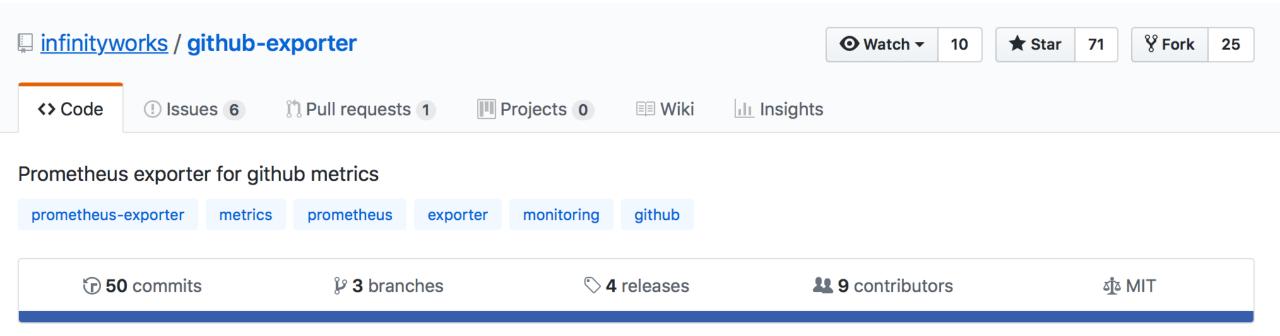




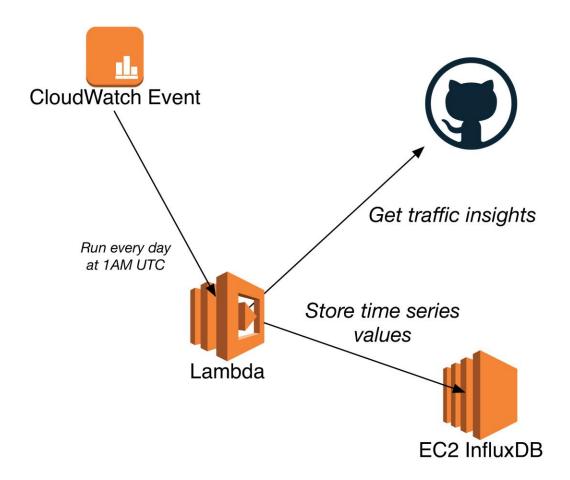


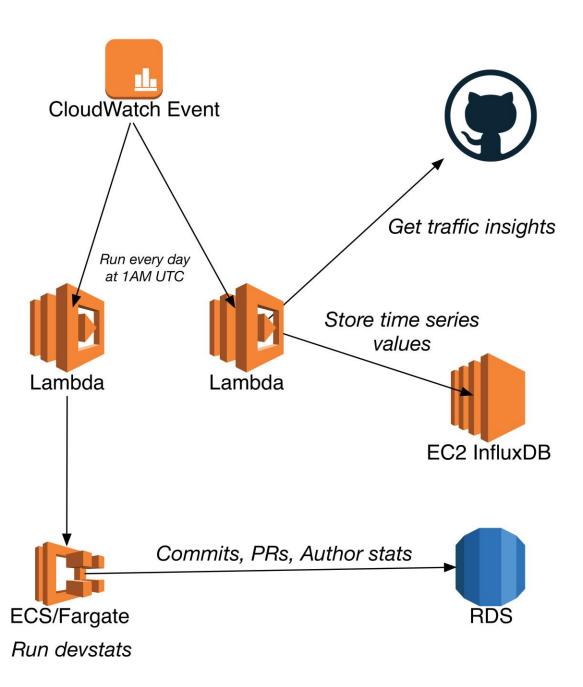


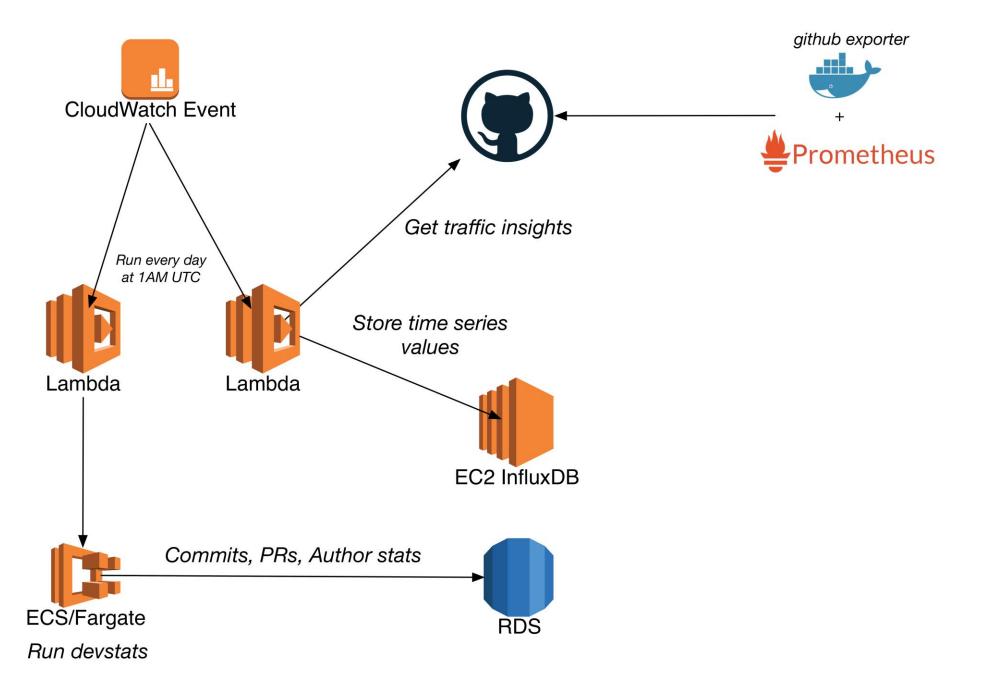


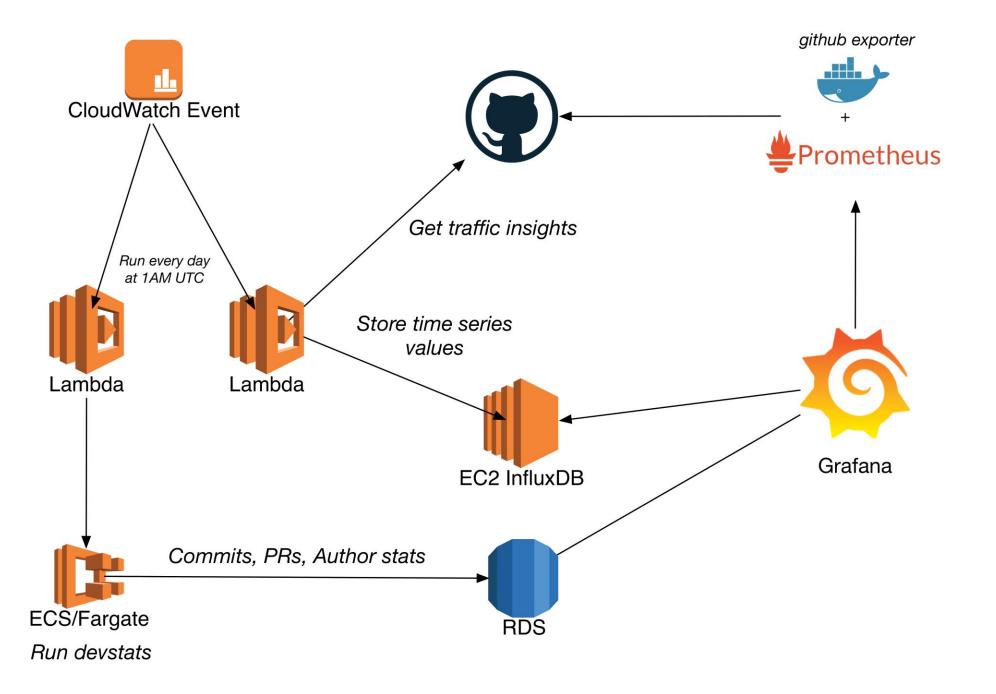












Resources



Repo Linter: https://github.com/todogroup/repolinter

 CHAOSS Community (Community Health Analytics Open Source) Software): https://chaoss.community