

# If There Are No Metrics, Did It Even Happen?

## Tracking Open Source Contributions at Comcast

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# Comcast Open Source Program Office

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Opened beginning of 2017

Support 7k+ developers

Support 141 project repos on GitHub

4 person team





A collection of various hats is displayed against a dark background. The hats include a white straw hat, a red straw hat, a brown felt hat, a pink felt hat, a grey straw hat, and a white hat with large red floral patterns. A semi-transparent white circle is overlaid on the right side of the image, containing the text.

How do we  
quantify the work?



We needed a  
way to  
measure







Project health metrics can help us determine which projects are thriving.





Project health metrics can help us determine which ones may need attention.



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?





It was time to  
cross-collaborate.













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# Comcast

Comcast brings together the best in media and technology to create the world's best entertainment and online experiences

<https://comcast.github.io>

**Repositories** 245

**People** 385

**Teams** 81

**Projects** 0

**Settings**

Type: All ▾

Language: All ▾

Customize pinned repositories

**New**

## parodus

The XMIDT client.



[xmidt](#) [xmidt-client](#)

● C ★ 10 🍴 21 📄 Apache-2.0 Updated 7 hours ago

## talaria

The Webpa routing agent.



● Go ★ 4 🍴 4 📄 Apache-2.0 Updated 11 hours ago

## wdmp-c

C implementation of the WebPA Data Model Parser



[webpa](#) [webpa-client](#)

● C ★ 1 🍴 9 📄 Apache-2.0 Updated 12 hours ago

## webpa-common

The collection of small common packages for the webpa project.



[caduceus](#) [scytale](#) [webpa](#) [talaria](#) [petasos](#) [xmidt](#)

● Go ★ 18 🍴 10 📄 Apache-2.0 Updated 12 hours ago

### Top languages

● Go ● JavaScript ● C ● Java  
● Python

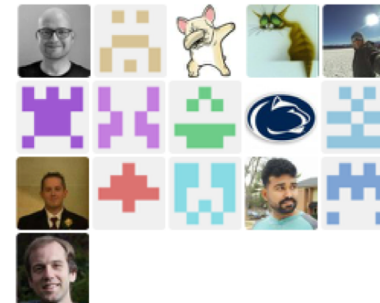
### Most used topics

[Manage](#)

[ospok](#) [webpa](#) [xmidt](#)  
[javascript](#) [akamai](#)

### People

385 >



[Invite someone](#)

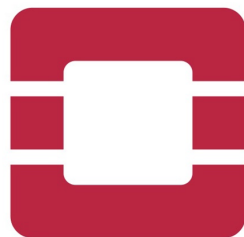




kubernetes



fluentd



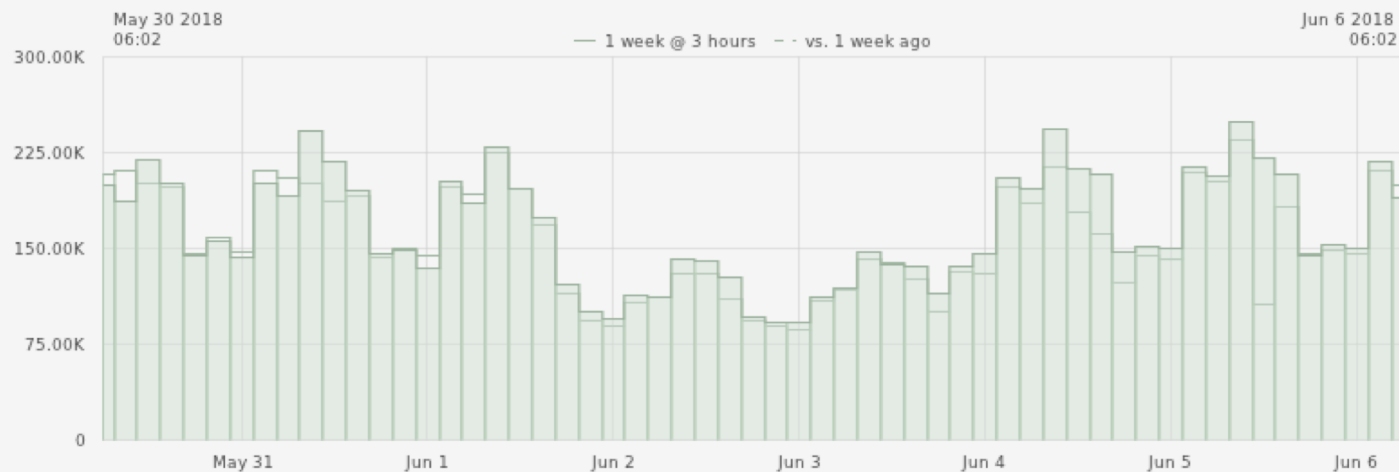
openstack®



Tools







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	<code>wget http://data.gharchive.org/2015-01-01-15.json.gz</code>
Activity for 1/1/2015	<code>wget http://data.gharchive.org/2015-01-01-{0..23}.json.gz</code>
Activity for all of January 2015	<code>wget http://data.gharchive.org/2015-01-{01..30}-{0..23}.json.gz</code>

GitHub archives, git, GitHub API -> Postgres databases -> Grafana dashboards <https://k8s.devstats.cncf.io/>

githubarchive

postgres

kubernetes

prometheus

opentracing

fluentd

linkerd

grpc

postgres-database

grafana-dashboard

metrics

apache

rkt

cni

envoy

jaeger

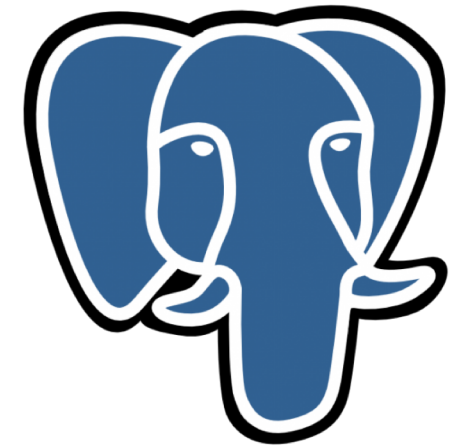
notary

cncf

statistics



# Grafana

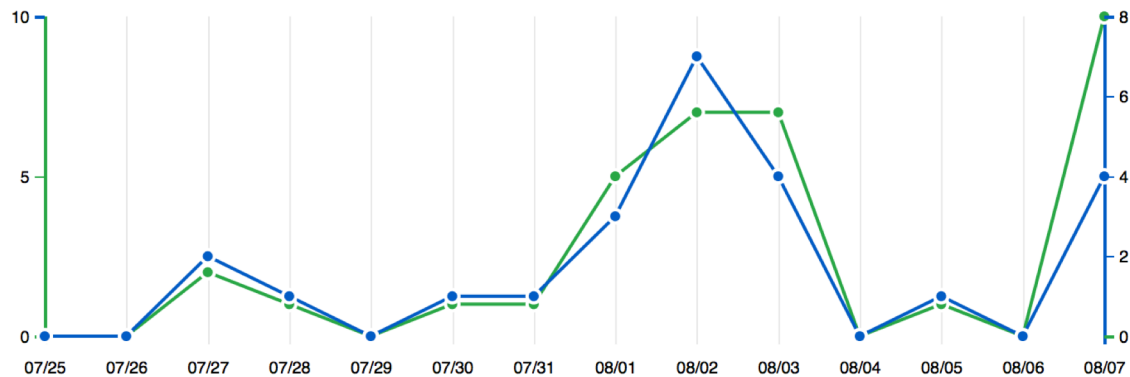


PostgreSQL



[Pulse](#)[Contributors](#)[Community](#)[Traffic](#)[Commits](#)[Code frequency](#)[Dependency graph](#)[Network](#)[Forks](#)

## Git clones



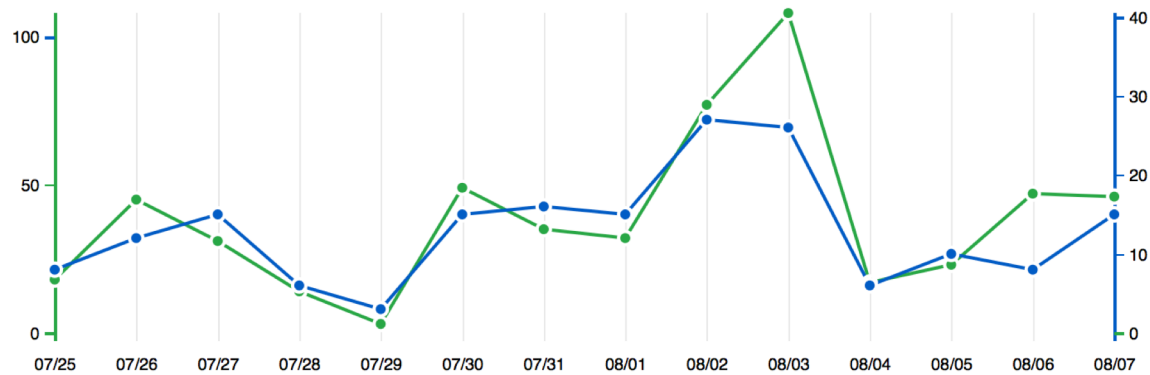
35

Clones

15

Unique cloners

## Visitors



545

Views

139

Unique visitors



Code

Issues 6

Pull requests 1

Projects 0

Wiki

Insights

## Prometheus exporter for github metrics

[prometheus-exporter](#)

[metrics](#)

[prometheus](#)

[exporter](#)

[monitoring](#)

[github](#)

 50 commits

 3 branches

 4 releases

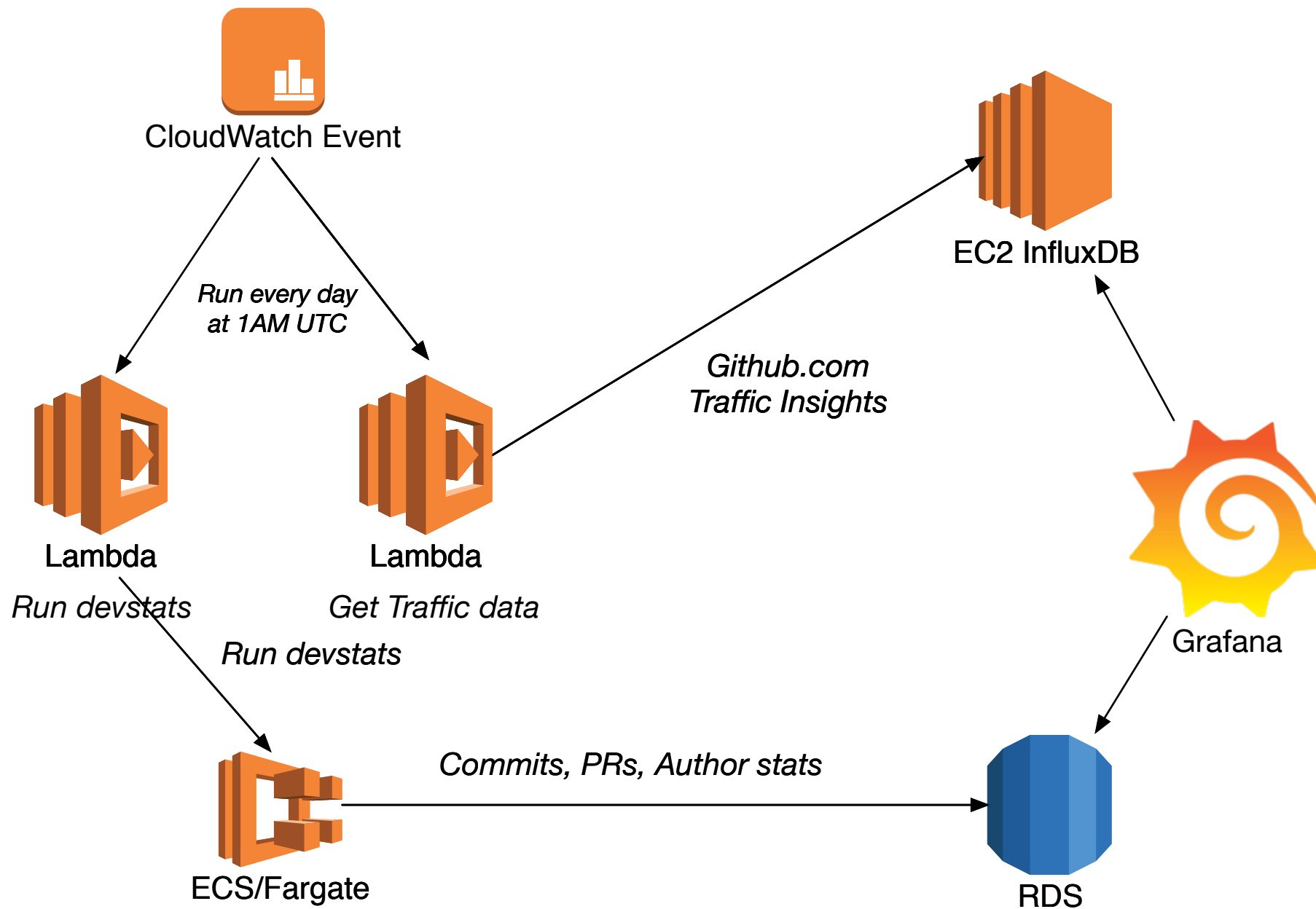
 9 contributors

 MIT



# Prometheus





Thank  
you!

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