

Grafana Loki: Like Prometheus, but for logs.

Tom Wilkie, May 2019





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Previously: Kausal, Weaveworks, Google, Acunu, Xensource

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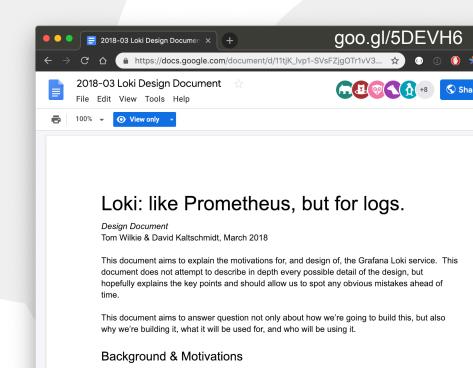




Loki is a horizontally-scalable, highly-available, multitenant log aggregation system inspired by Prometheus.

03/18	Project started
12/18	Launched at KubeCon US
12/18	#1 on HN for ~12hrs!
02/19	FOSDEM talk
03/19	Labels from logs
04/19	Lazy Queries; LogQL filtering
05/19	KubeCon EU: context, live tailing

https://github.com/grafana/loki



Intro

FOSDEM summary

What's New...

What's Next?

Demo





#0 Simple and cost effective to operate

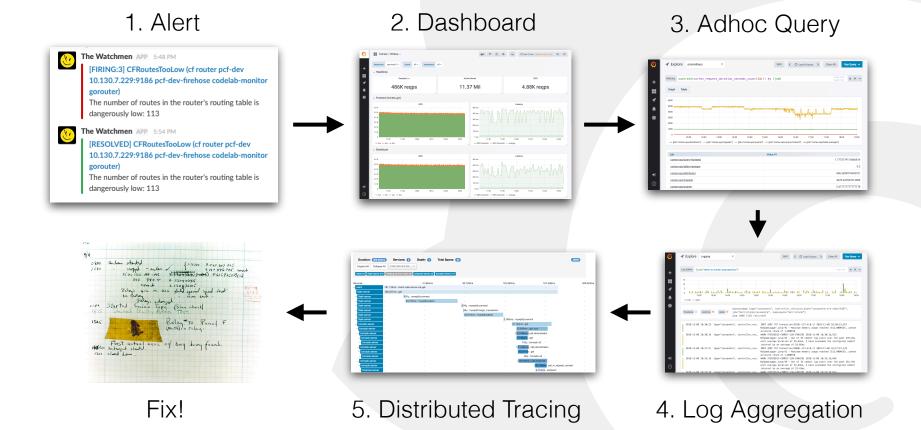
#1 Integrated with existing observability tools

#2 Cloud Native and Airplane Mode

Loki doesn't index the text of the logs, instead grouping entries into "streams" and indexing those with labels.

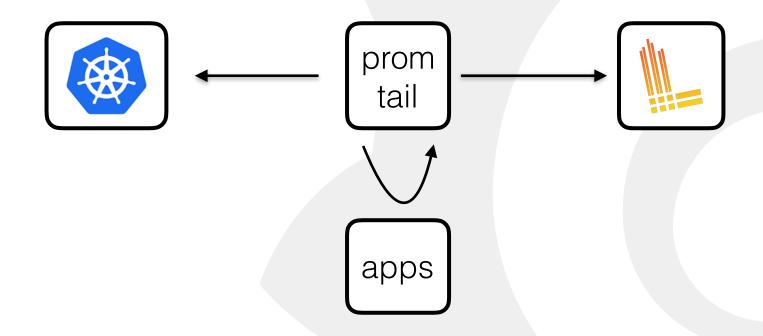
```
{job="frontend", env="dev"} => {
  time: "2018-01-31 15:41:04",
  line: "POST /api/prom/push HTTP/1.1 502 0"
}
```



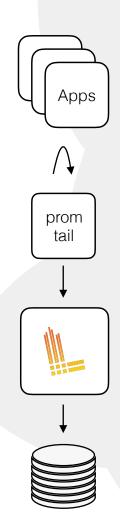


#1 Integrated



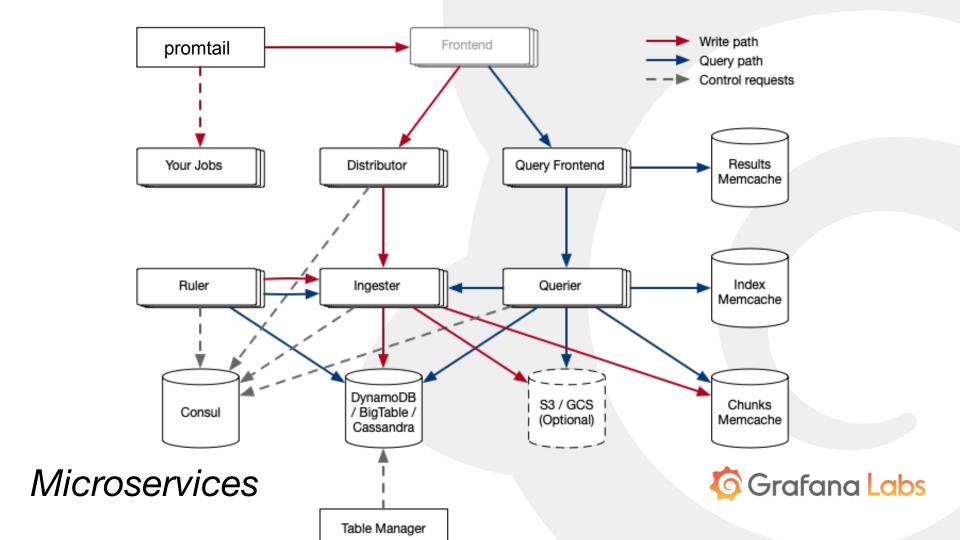






#3 Airplane Mode

Grafana Labs



#0 Simple and cost effective to operate

#1 Integrated with existing observability tools

#2 Airplane Mode and Cloud Native

Whats new?



LogQL Filter Chaining:

```
{job="app"} |= "/foo" !~ "/foo/bar"
```

Extracting Labels from Logs

Live Tailing, Context

Much more

Demo



Whats next?



sum(extract_value({job="app"}, "code=(\d+)", "\$1

LogQL Aggregations



Add alerts & rules using aggregations

Signature chaining for verifiability

Removing dependancy on NOSQL

Launch first beta in ~now



Thanks! Questions?

