



Goutham Veeramachaneni



@putadent





#### Me









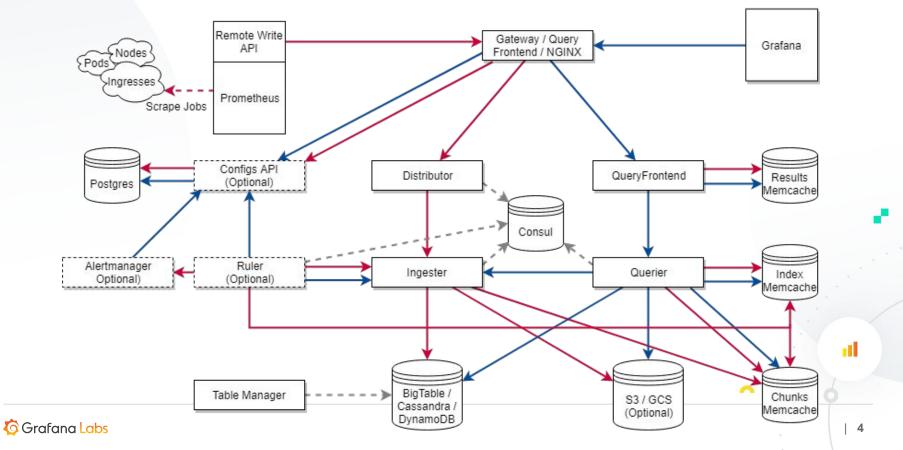


# Context

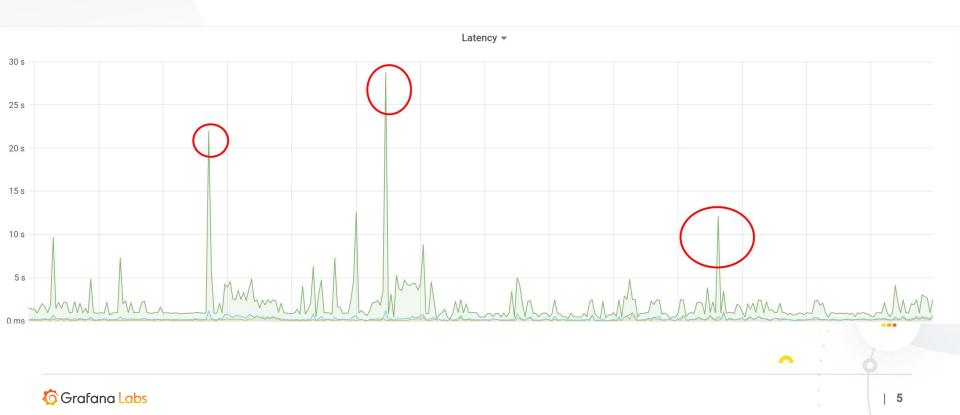
Debugging slow queries



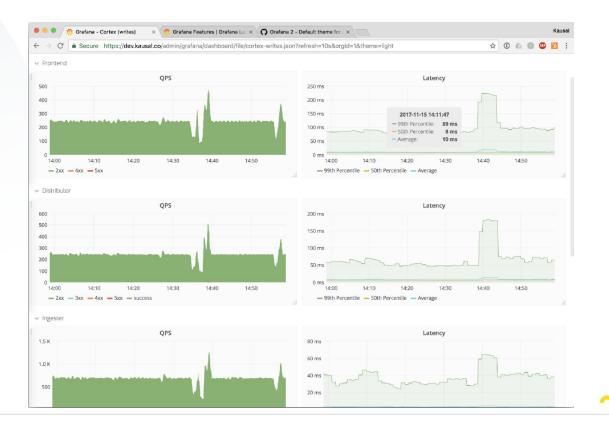
- - ➤ Control requests



# A few large queries are slow

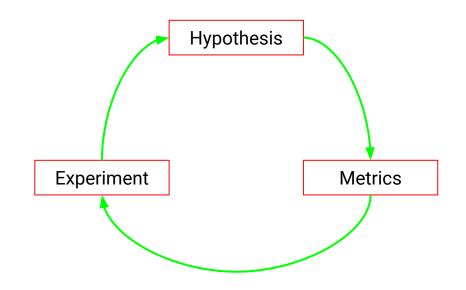


#### **RED Method**





#### Soooo whats slow?



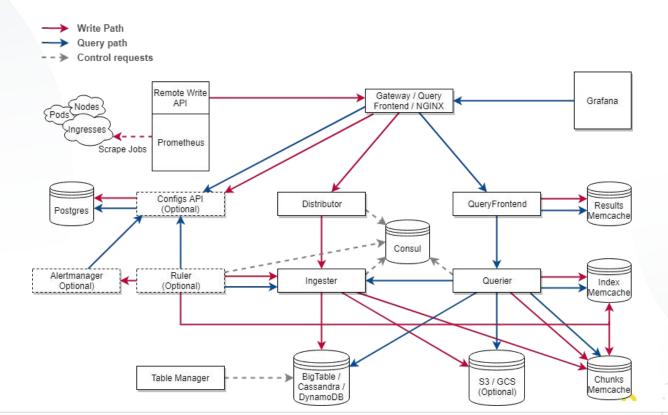


# Jaeger

Saving my arse since June 2018

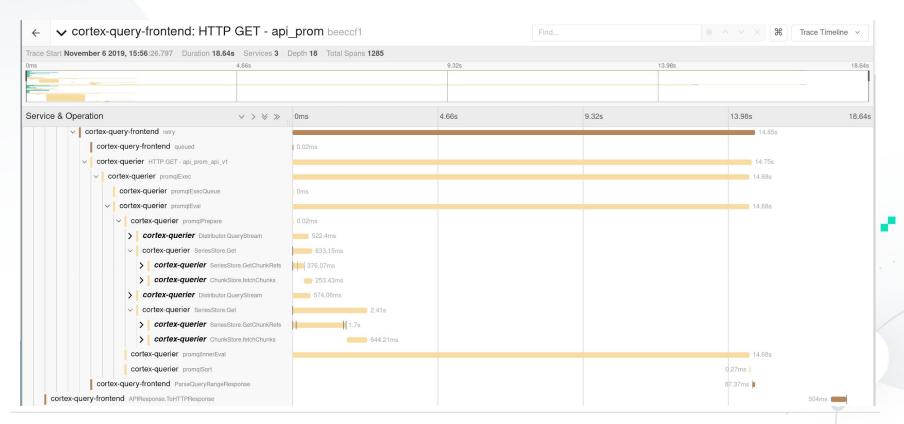


#### Soooo whats slow?





#### Soooo whats slow?

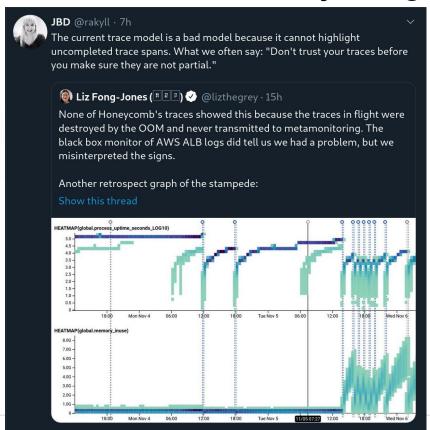




# Demo

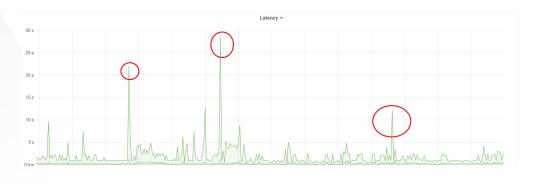


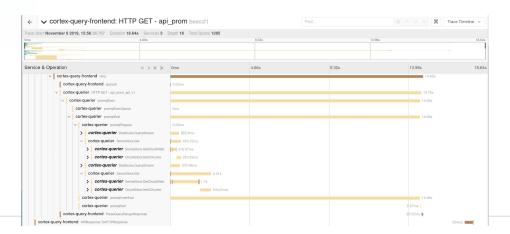
## Is Jaeger the solution to everything?





# My new flow

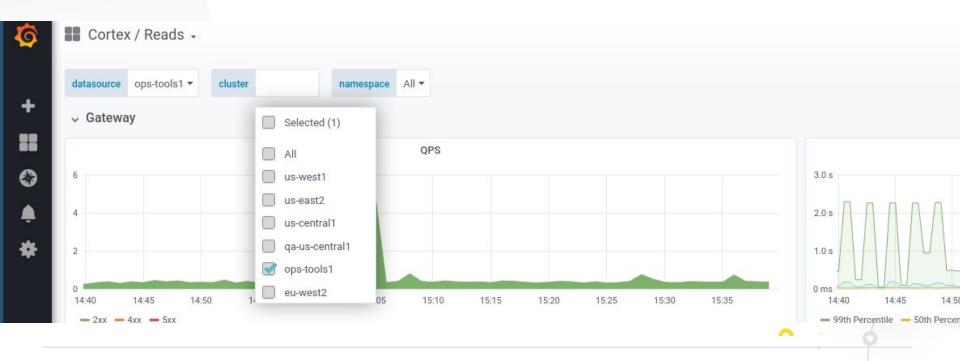






#### Per environment traces?

Several clusters but central jaeger



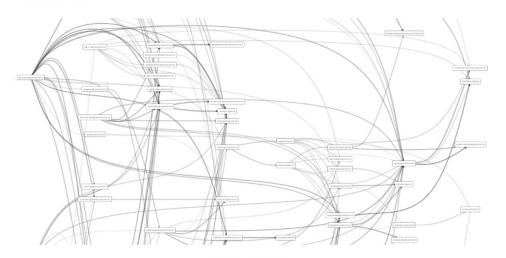
## **Enriching traces**

blog

Backstage Blog September 18th, 2018 Engineering Microservices

#### Using Kubernetes Pod Metadata to Improve Zipkin Traces

By Steve Conover



SoundCloud is built on hundreds of microservices. This creates many challenges, among them debugging latency issues across the services engaged in the completion



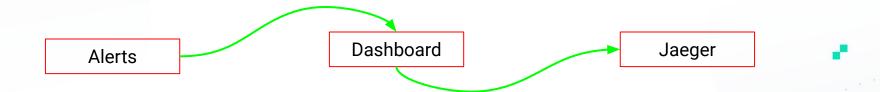
## **Enriching traces**

Just add namespace and clustername, use env vars

```
jaeger_mixin::
     if $._config.jaeger_agent_host == null
     then {}
     else
     container.withEnvMixin([
     container.envType.new('JAEGER_AGENT_HOST', $._config.jaeger_agent_host),
     container.envType.new('JAEGER_TAGS', 'namespace=%s,cluster=%s' % [$._config.namespace,
$._config.cluster]),
     container.envType.new('JAEGER_SAMPLER_MANAGER_HOST_PORT', 'http://%s:5778/sampling' %
$._config.jaeger_agent_host),
     ]),
```

#### Per environment traces?

Several clusters but central jaeger





## **Monitoring Jaeger with Prometheus**





# The Future

We're only scratching the surface



# **Exemplars: Seamless flow**



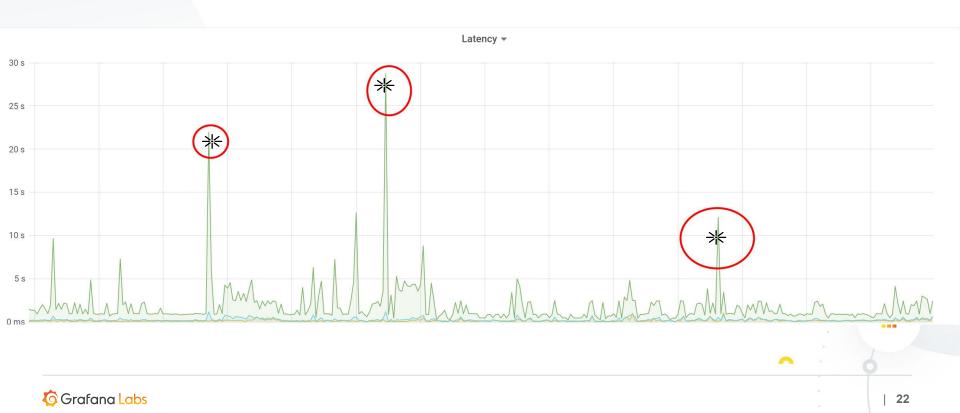


# **Exemplars: Seamless flow**





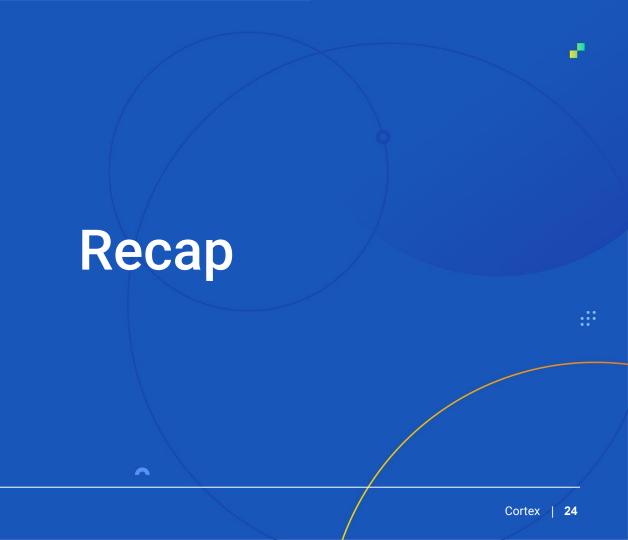
# **Exemplars: Seamless flow**



#### More future

- Grafana has tracing built in (Jaeger being first)
- Integrate the logs and traces and metrics
- Built in UI for visualising Prometheus queries
- Conprof





## Recap

Jaeger is awesome for debugging latency

Alerts —> Dashboard —> Jaeger, make sure the flow works

The jaeger\_mixin helps you tame Jaeger

Exemplars are coming!



# **Questions!** @putadent 966 Grafana Labs