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Metrics, Logs & Traces

What Does the Future Hold for Observability?

Frederic Branczyk

 fredbrancz

Tom Wilkie

 tom_wilkie

The Three Pillars

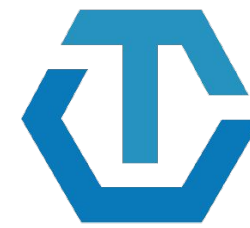
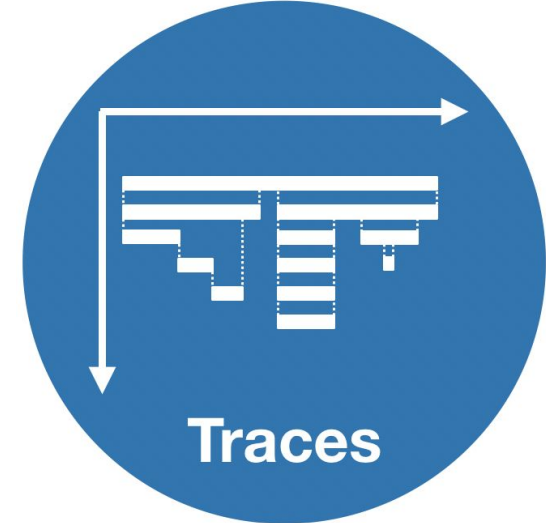
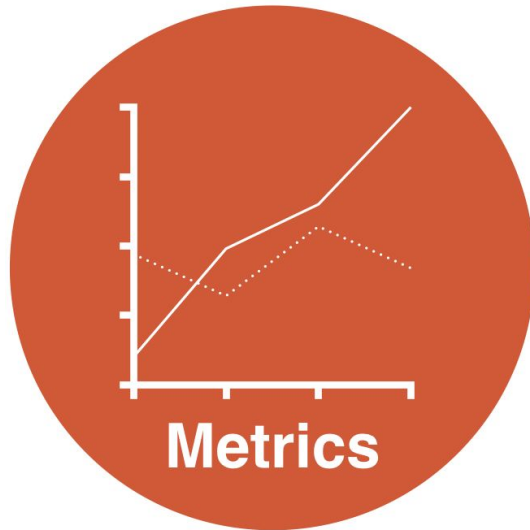


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The Three Pillars



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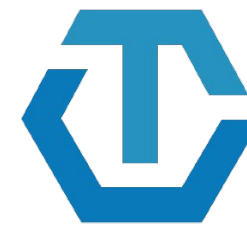
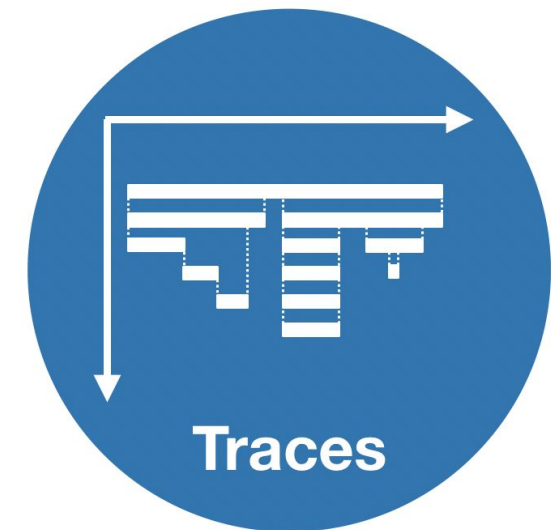


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Logs





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**Prediction #1: More correlation
between Pillars.**

Prediction #1: Correlation

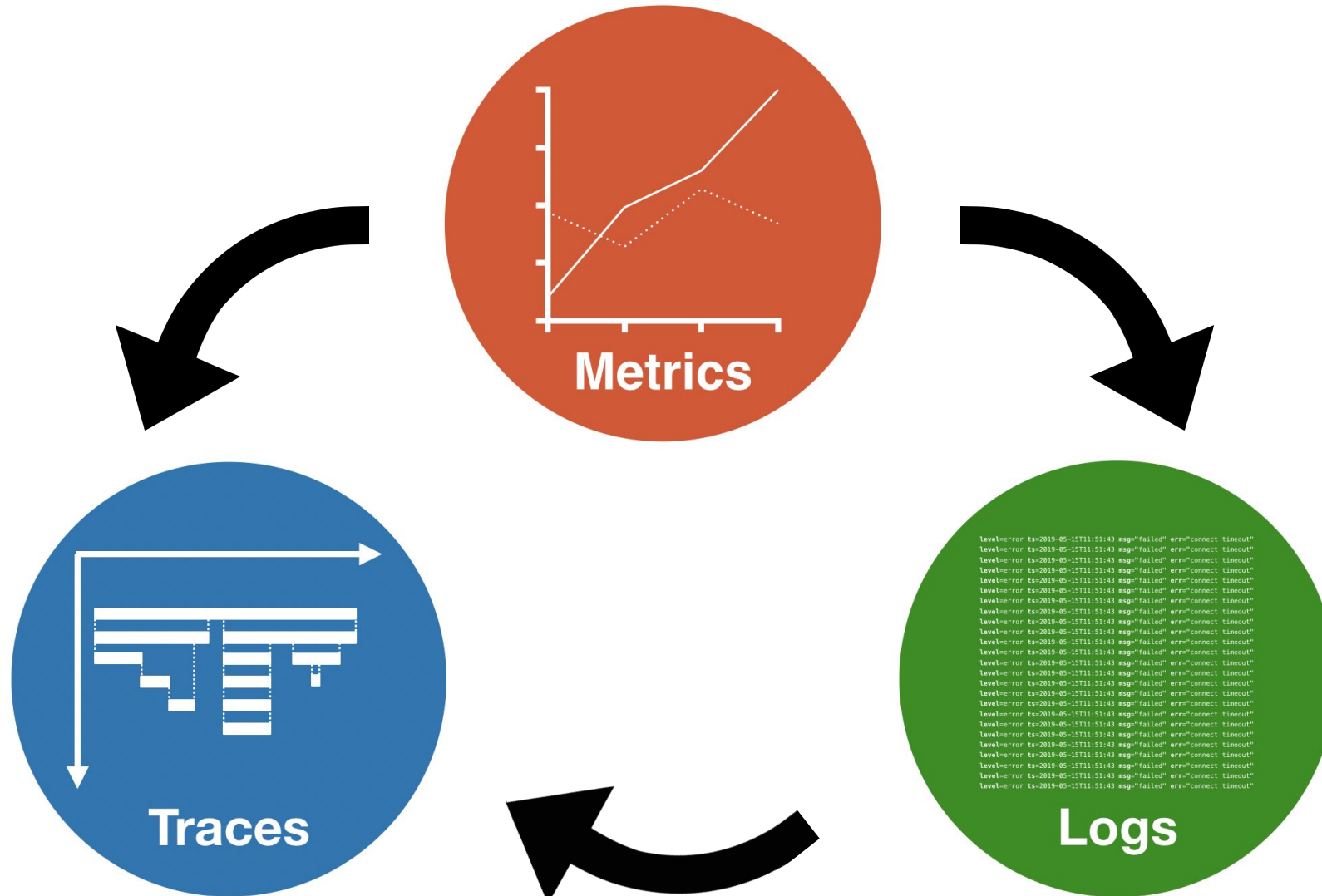


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Prediction #1: Correlation

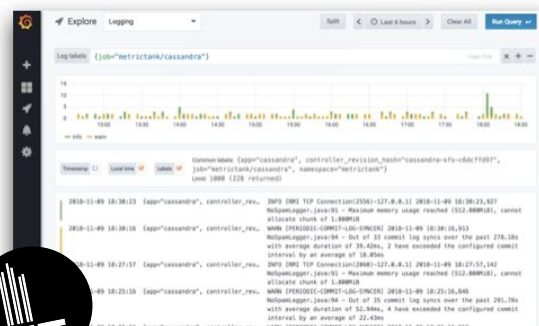
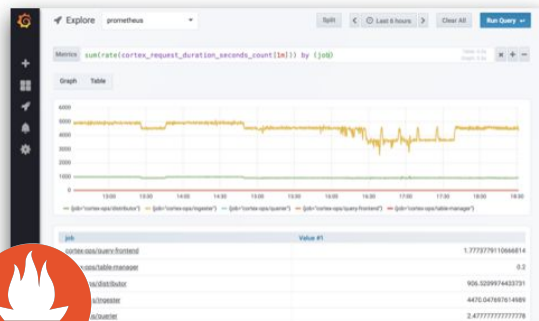
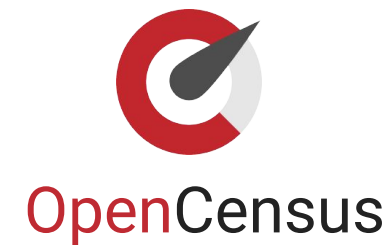
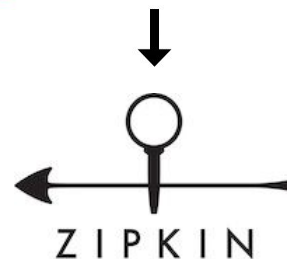


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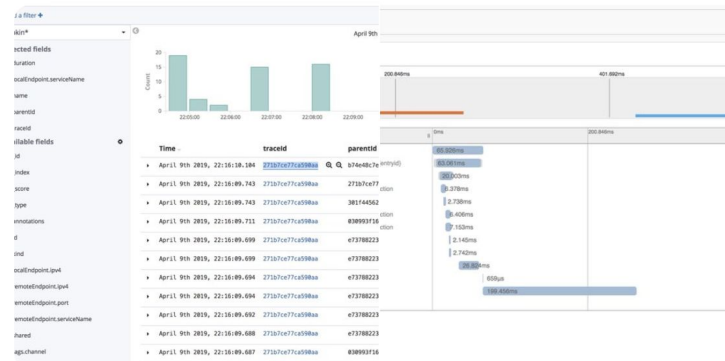
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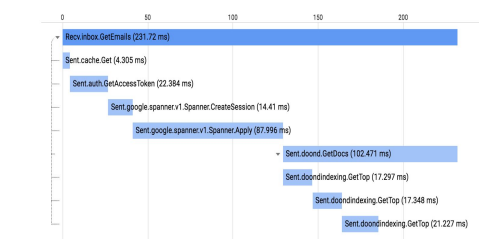
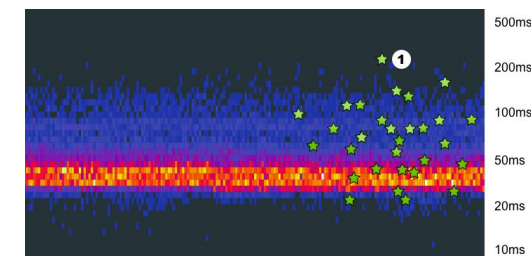
Toshiaki Maki
@making



Put a link from Kibana to Zipkin. Handy!



2:22 PM - 9 Apr 2019



<https://medium.com/observability/want-to-debug-latency-7aa48ecbe8f7>

Prediction #1: Correlation



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**Prediction #1: More correlation
between Pillars.**



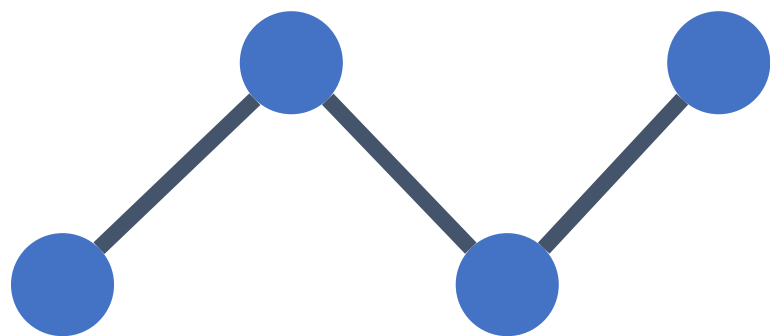
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Prediction #2: New Signals & New Analysis



Prediction #2: New signals

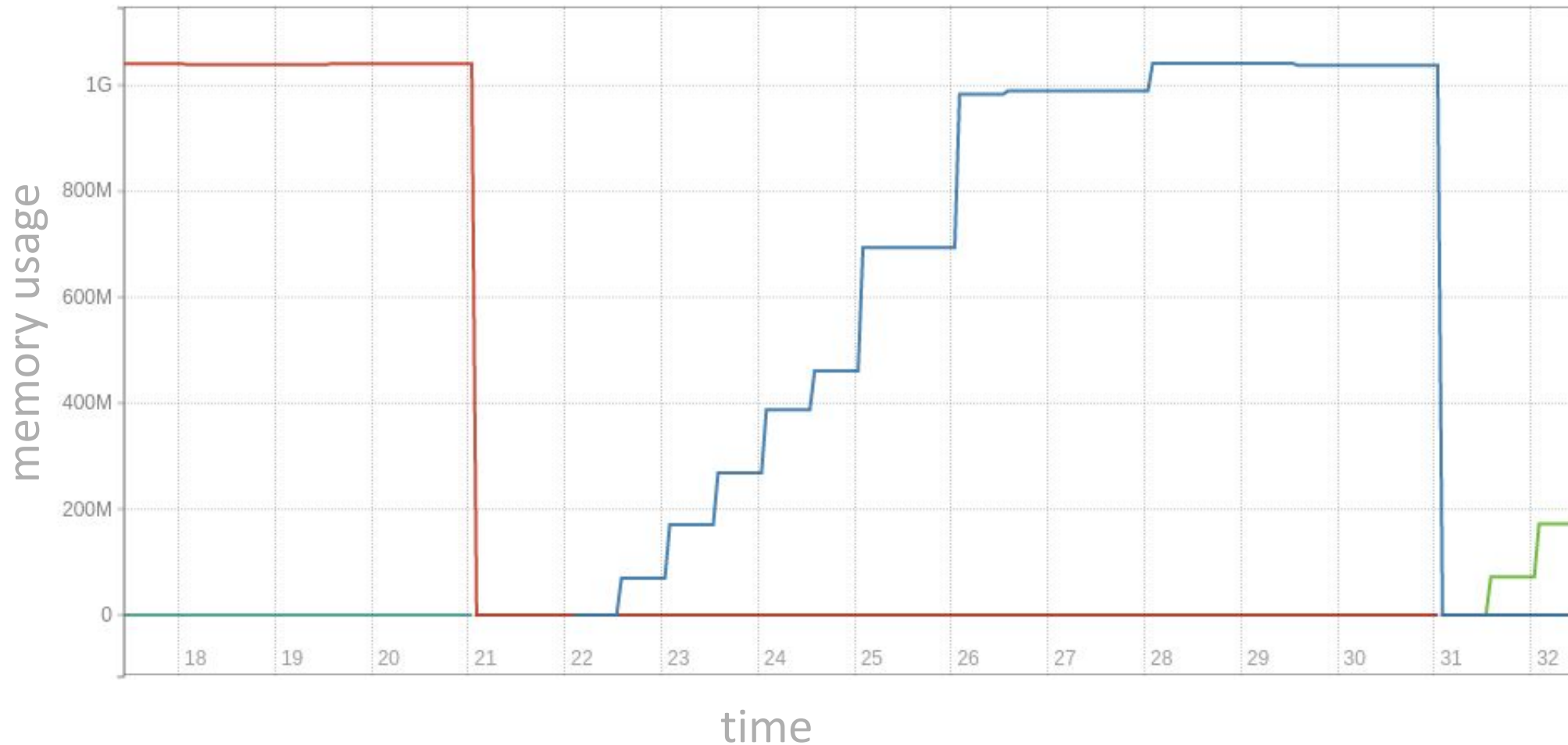


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Prediction #2: New signals



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Continuous Profiling of Go programs



JBD

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RESEARCH > PUBLICATIONS >

Google-Wide Profiling: A Continuous Profiling Infrastructure for Data Centers

<https://ai.google/research/pubs/pub36575>

<https://medium.com/google-cloud/continuous-profiling-of-go-programs-96d4416af77b>

Prediction #2: New analysis

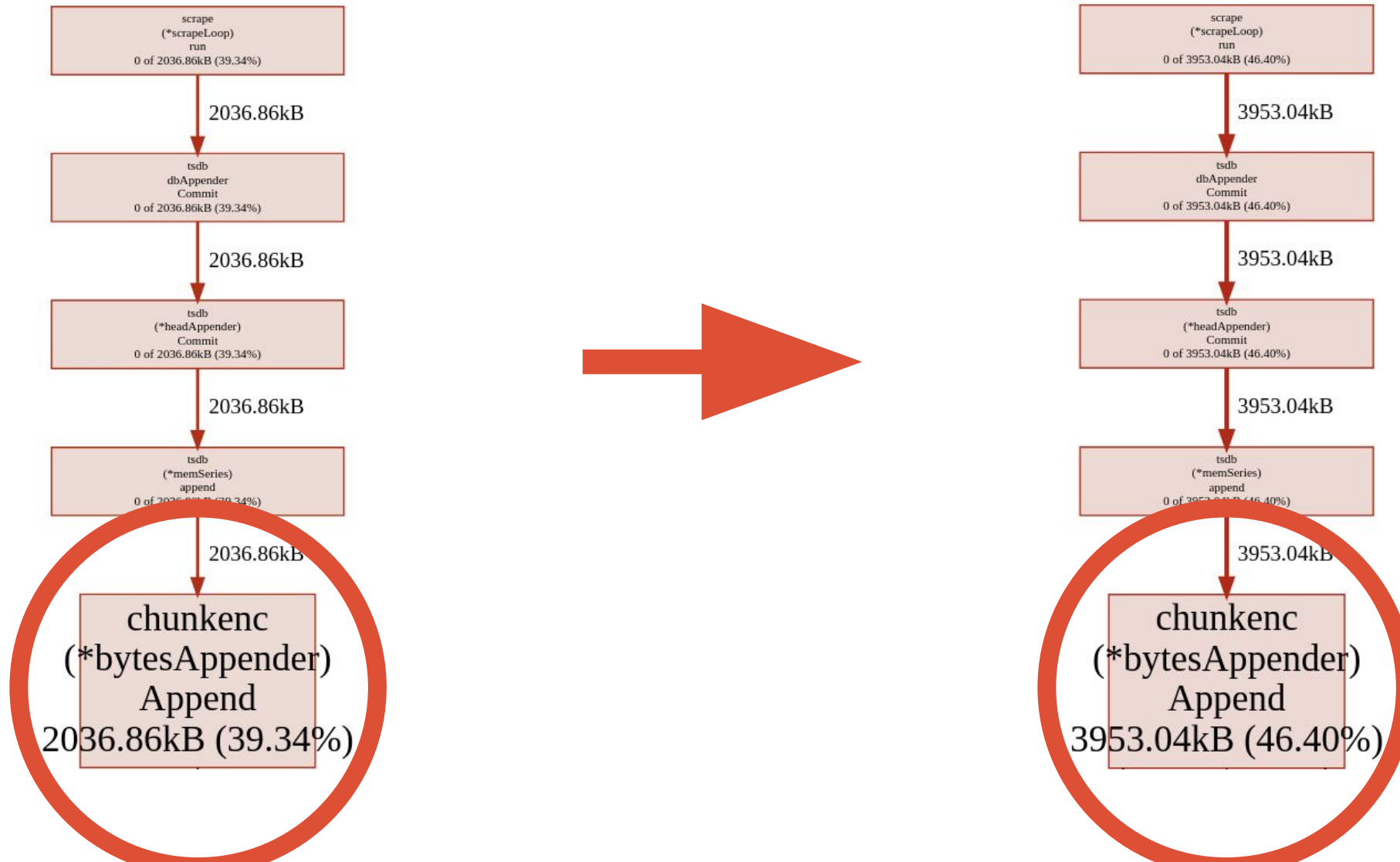


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Prediction #2: New Signals & New Analysis



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Prediction #3: Rise of Index-free Log Aggregation

Prediction #3: Index-free Logs



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bletchley punk

@alicegoldfuss

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just give me log files and grep, I am dying

6:32 PM - 5 Apr 2018

Prediction #3: Index free logs



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OK Log

<https://github.com/oklog/oklog>

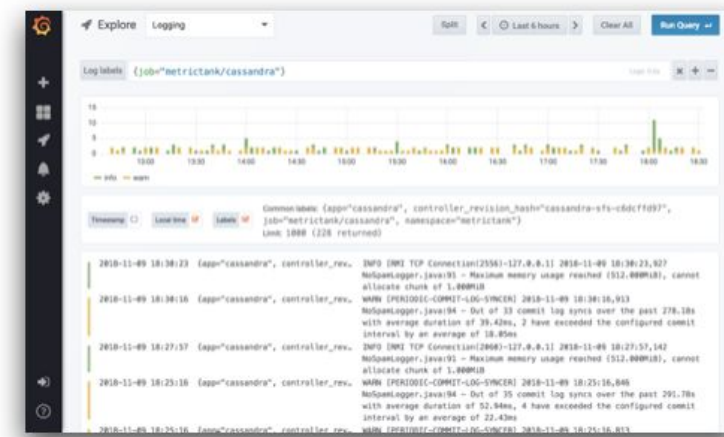
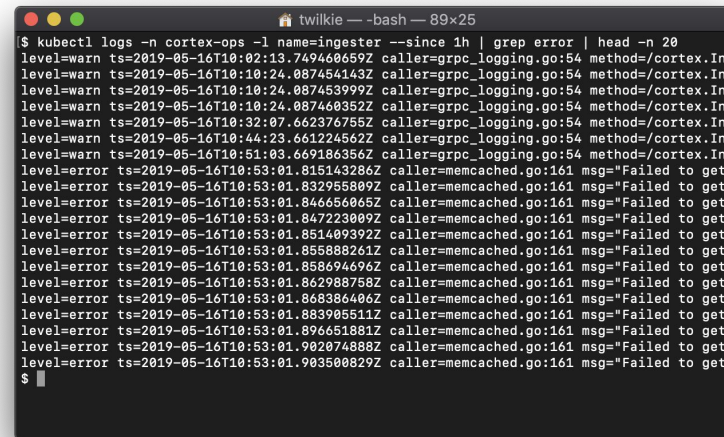
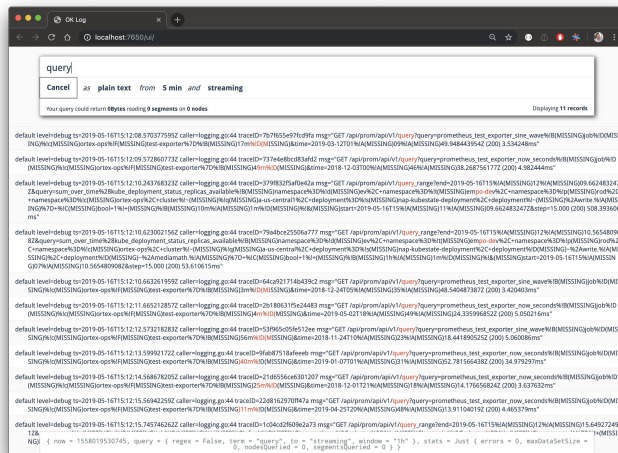


kubectl logs



Grafana loki

<https://github.com/grafana/loki>





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Prediction #3: Rise of Index-free Log Aggregation

Future of Observability



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- 1. More correlation between Pillars**
- 2. New Signals & New Analysis**
- 3. Rise of Index-free Log Aggregation**

Future of Observability



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Thank you!