

Monitoring Microservices the Right Way

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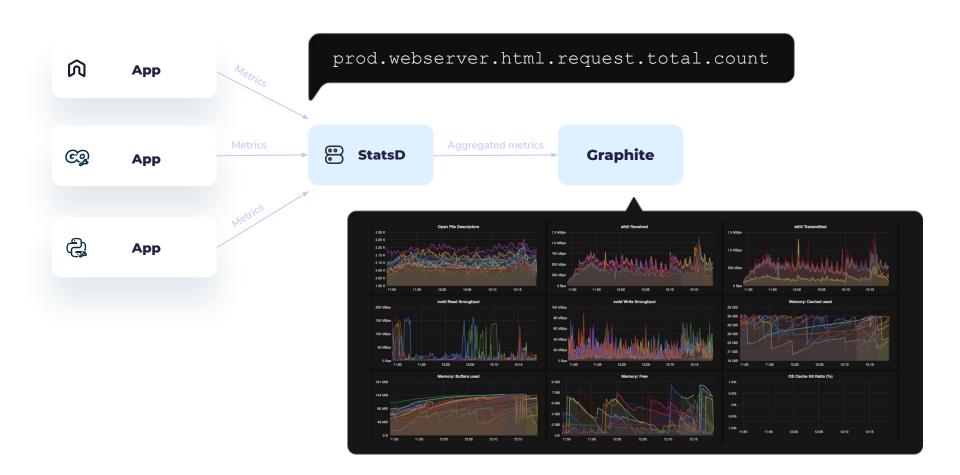
- Developer Advocate at Logz.io
- 20 years in the hi-tech industry
- Developer, architect, product
- CNCF advocate, meetup organizer
- Podcast: OpenObservability Talks







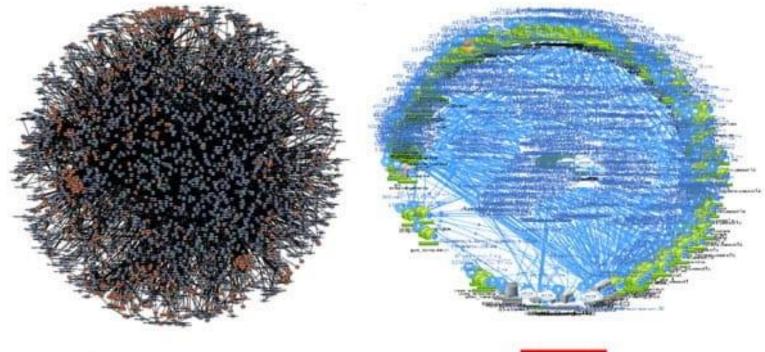








Microservices instead of a Monolith



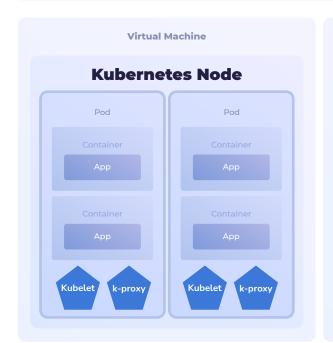


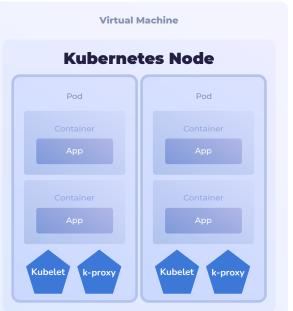


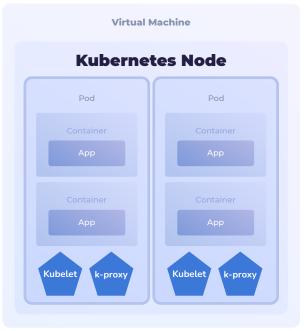


Cloud Native Architecture and Kubernetes



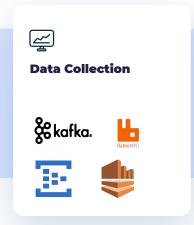






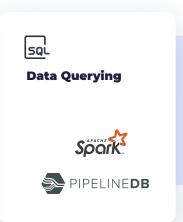


Open Source & Cloud Services





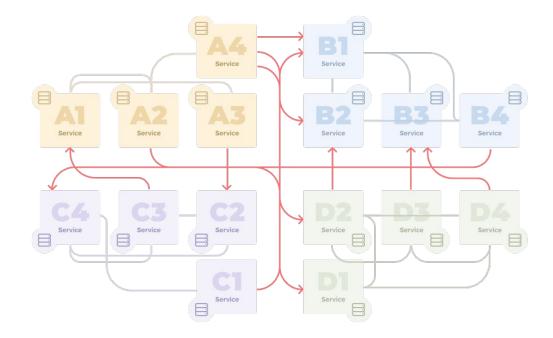






Challenges

- 1. Microservices
- 2. Cloud Native
- 3. 3rd Party OSS/Cloud







Flexible Querying over High Cardinality

prod.webserver.html.request.total

 \Rightarrow

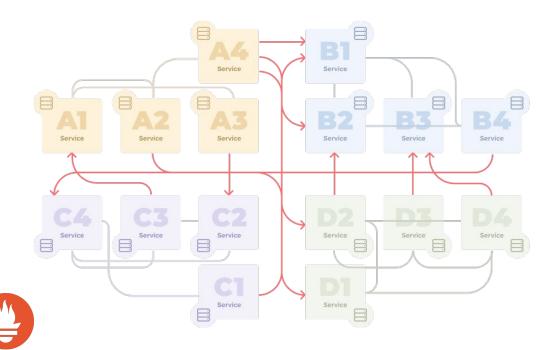
prod.node2.pod7.html.request.total

 \Rightarrow

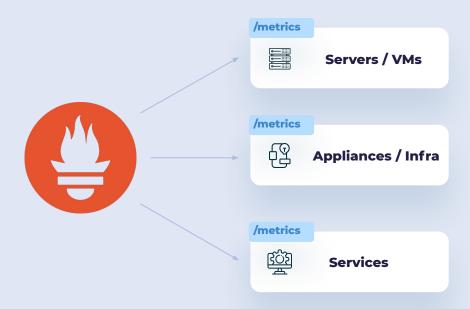
prod.nginx-service.html.request.total

 \Rightarrow

http_requests_total{env="prod",
service="nginx", server="pod7"}



Metric Scraping and Autodiscovery





Clustered Scalable Solution

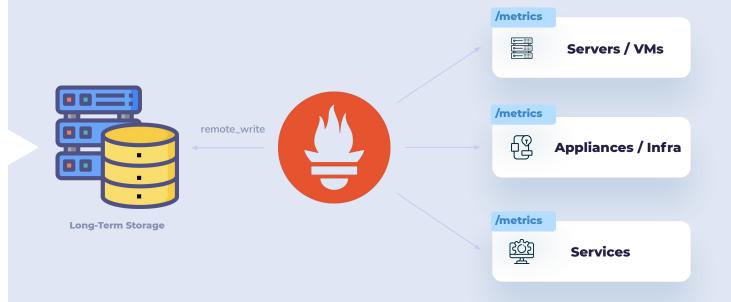








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Monitoring Microservices Requires

Flexible querying with high cardinality

Efficient metric scraping with autodiscovery

3

Scalability to handle large volume of metrics

Open source to the rescue: Prometheus, OpenMetrics, TSDB, K8s/CNCF ecosystem



For further information

- https://logz.io/blog/monitoring-microservices-best-practices/
- OpenObservability Talks podcast
- https://prometheus.io/
- https://openmetrics.io/
- Discussions on CNCF <u>slack</u> channels, gitter, mailing lists



Thanks

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