

What is a service mesh?

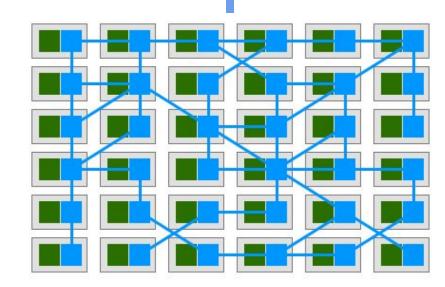




Control plane

Policy UI Metrics

Data plane



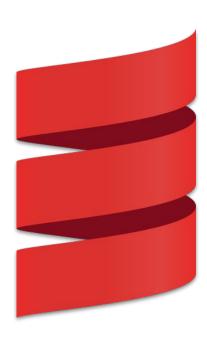
Linkerd 1.x





Europe 2019 -

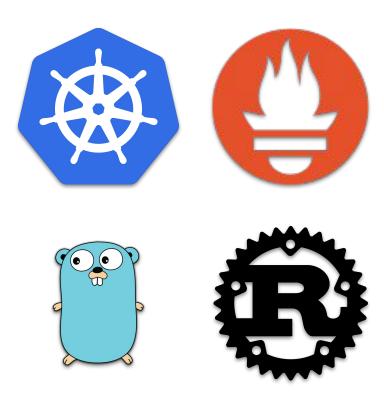




Linkerd 2.0

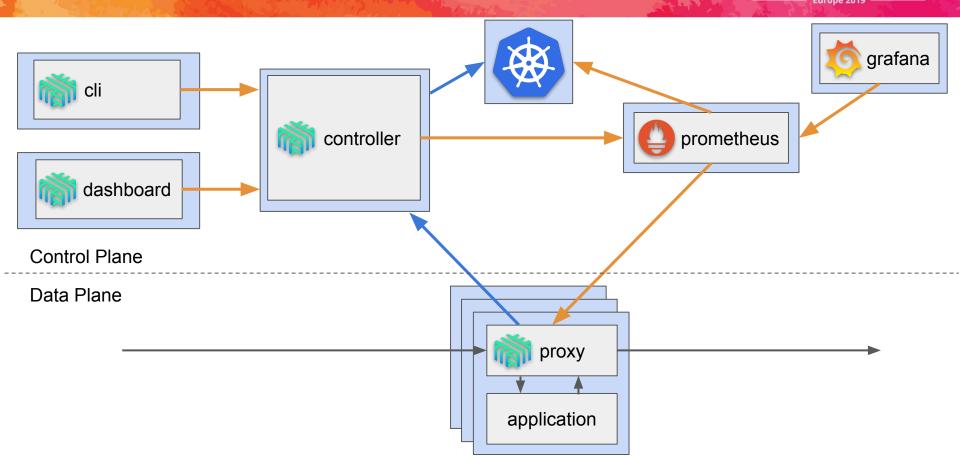






Linkerd 2.0





Linkerd Prometheus Endpoint



```
$ curl localhost:4191/metrics
request_total{tls="true",...} 123
response_total{tls="true",status_code="200",...} 123
response latency ms bucket{tls="true",...} 120
```

Quick Prometheus intro





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HTTP Get / Examp

Application
Example Metric:
Request Count

HTTP Get /metrics

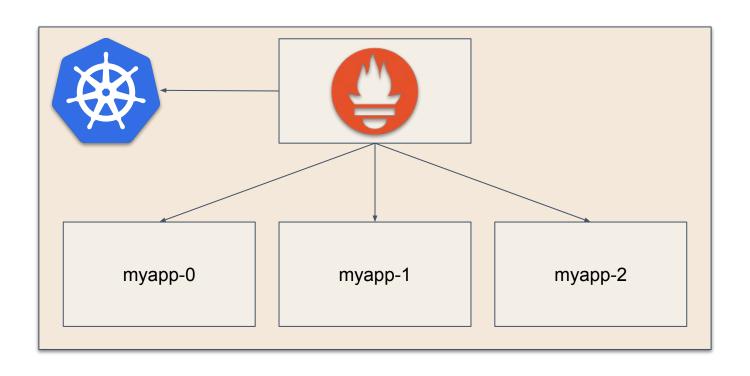
Prometheus

Application's Request Count

TO	T1	Т2	
0	2	2	

Typical monitoring setup





Most requested features?



- Long term storage
- Global view
- Downsampling

Thanos





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Long term storage

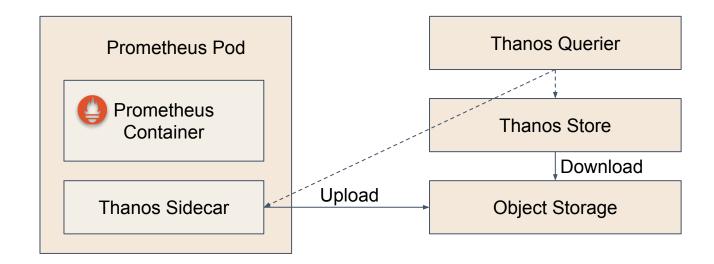
- Global view
- Downsampling
- Distributed Prometheus



Anatomy of Thanos

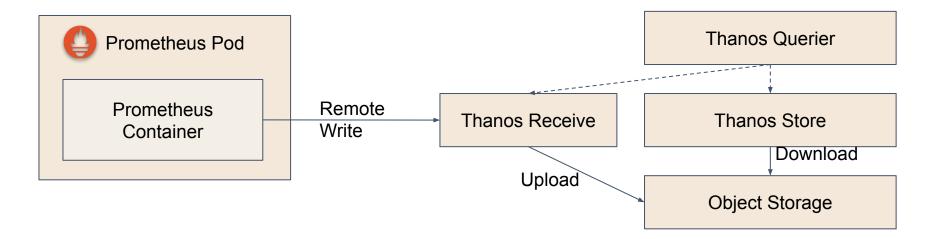








- New component
- Accepts remote-write from Prometheus
- http://bit.ly/thanos-receive-proposal





Architect to your need

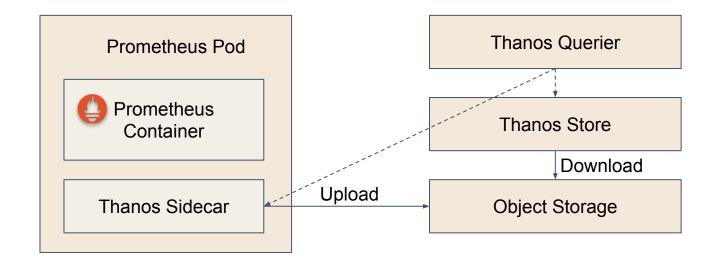


So Thanos = Multi cluster?

StoreAPI











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Prometheus Pod

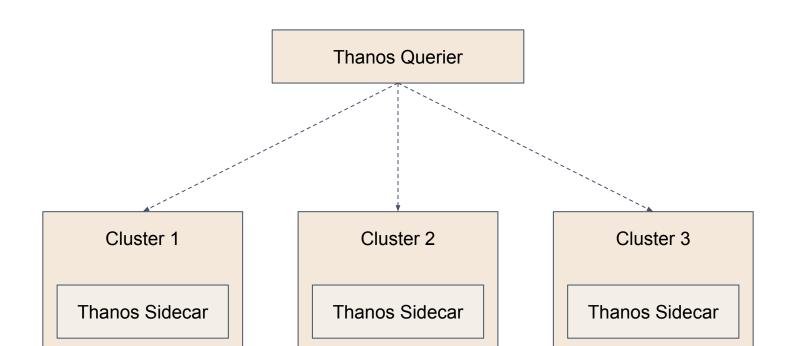
Thanos Sidecar

Thanos Querier

Thanos Store

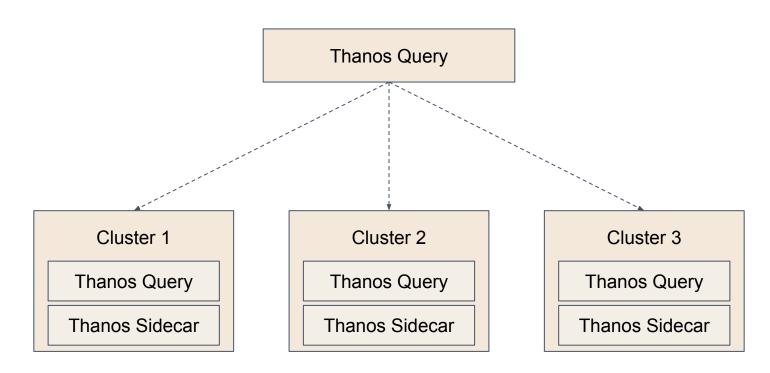












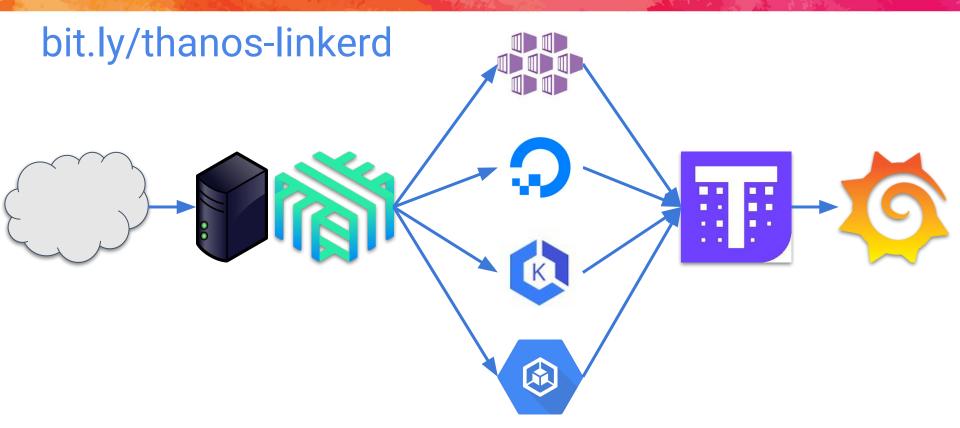


- Thanos is about deployment flexibility
- StoreAPI provides this flexibility
 - Each component exposes it
 - Stackable

Demo time!



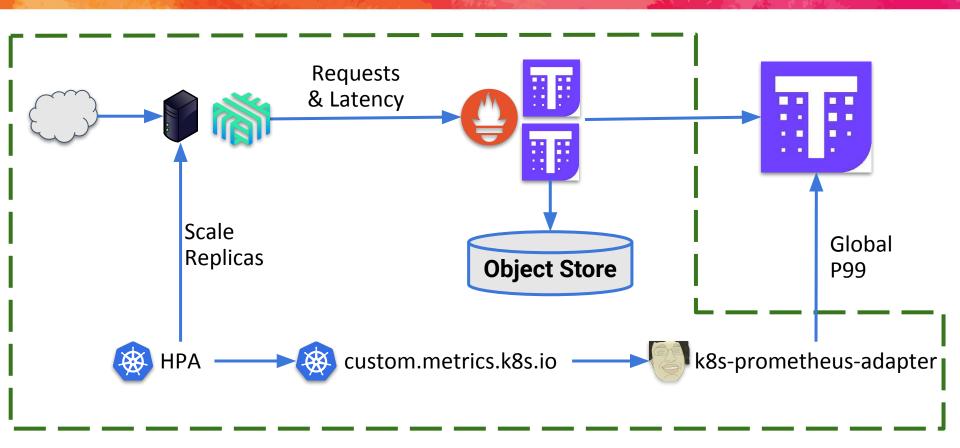




Autoscaling













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An open source service mesh and CNCF member project.



24+ months in production



3,000+ Slack channel members



10,000+ GitHub stars



100+ contributors



























