

Streaming Anomaly Detection for Big Data / Internet of Things

Adam Drake
FOSSAsia 20160319

@aadrake
<http://aadrake.com>

@aadrake #hacker

or

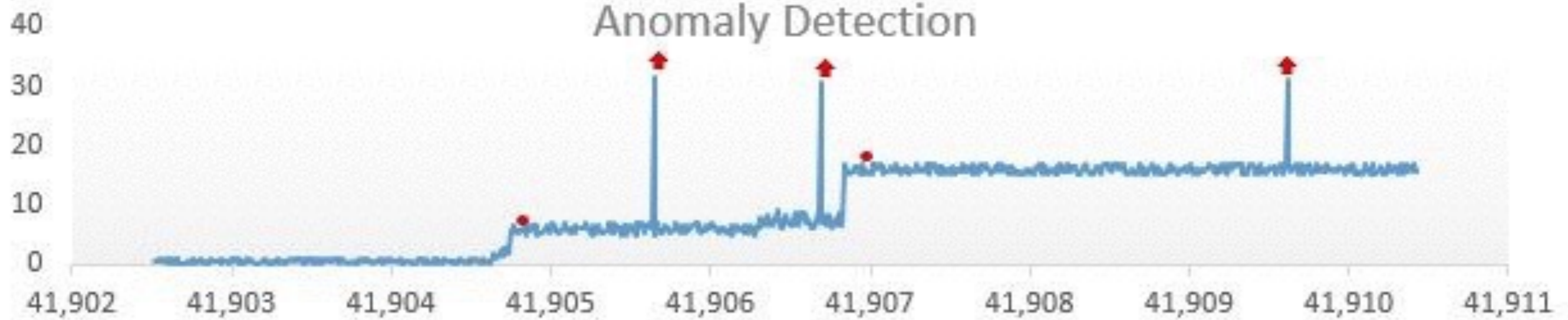
@aadrake #ThoughtLeader

Background

- Applied mathematics
- Startups
- Many industries

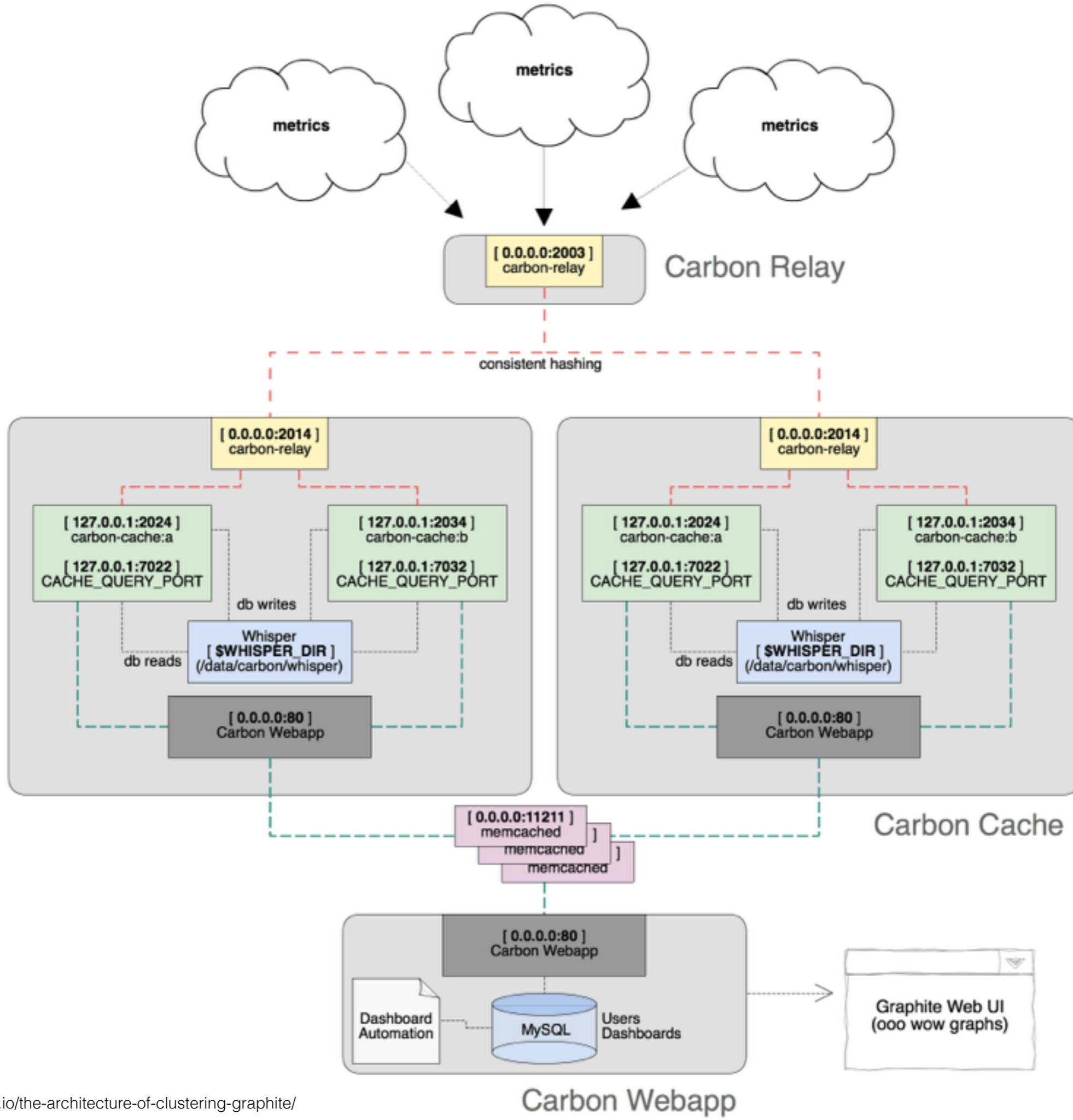
Time Series is the New Big Data

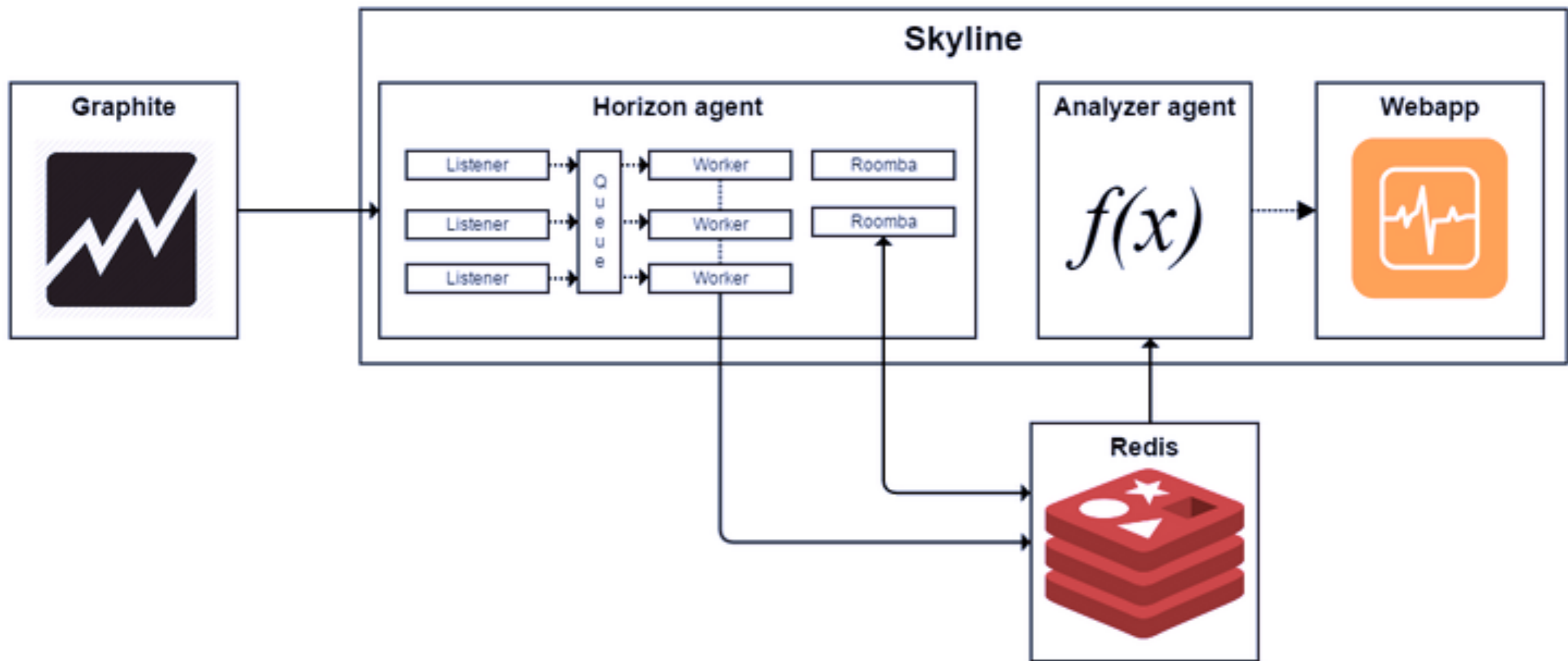
Anomaly Detection

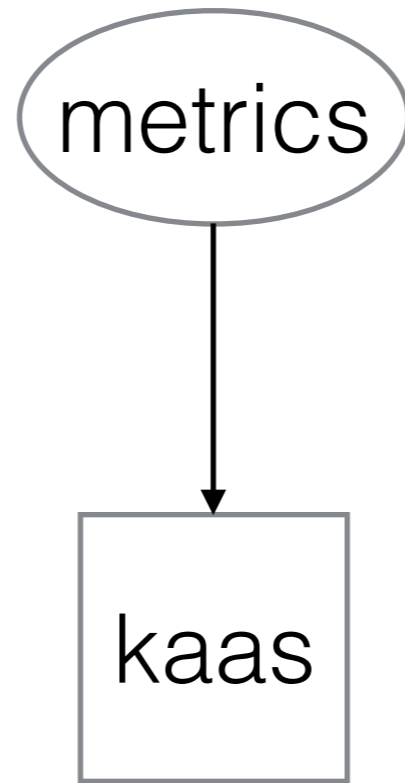


Graphite
Prometheus (SoundCloud)
Nagios
BreakoutDetection (Twitter)
Surus (Netflix)
Atlas (Netflix)
Skyline (Etsy)
Bosun (Stack Exchange)









DON'T DO THIS

$$M_{2,n} = M_{2,n-1} + (x_n - \bar{x}_{n-1})(x_n - \bar{x}_n)$$

$$s_n^2 = \frac{M_{2,n}}{n-1}$$

Anomaly Detection

