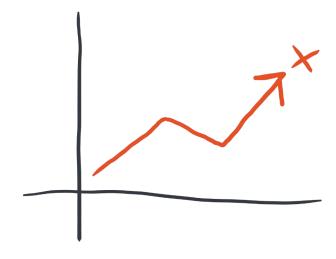
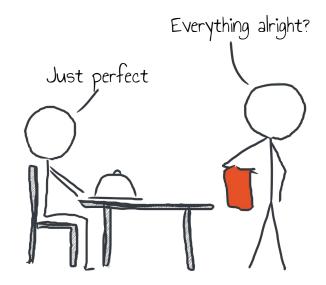
Service Level Objectives



It's the user experience that matters



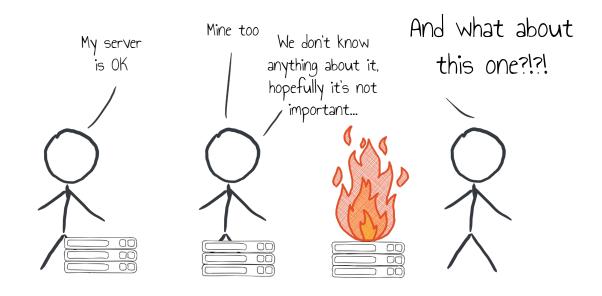
Define what you really want to guarantee

We need 100% uptime 24/7 over 365 days a year, any operation cannot take longer than 15 ms and there must be someone on call all the time!



Really? You know the service just generates greeting cards for a Mothers day once a year right?

Observe the service as a whole



Evaluate impact on the user as close as possible

We are happy you enjoyed the meal!

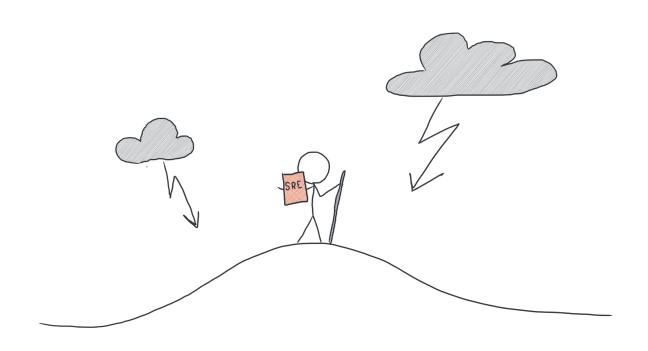
It was cold

Grale

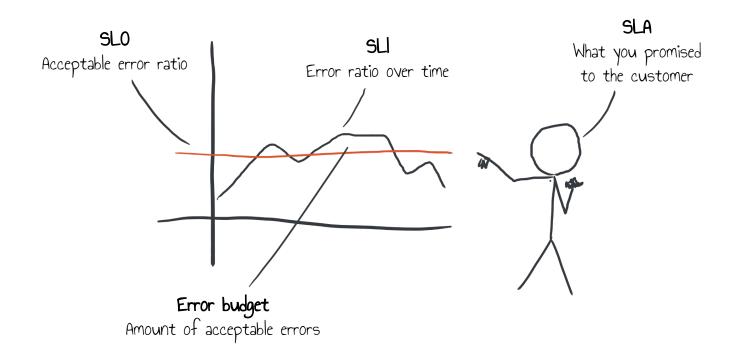
Great

He said great

SRE books from Google



Service Level Objectives terminology



Implementation using Prometheus

slo:error_ratio1h

```
sum(rate(http_requests_total{app="foo", status!~"5.."}[1h]))

/
sum(rate(http_requests_total{app="foo"}[1h])
```

Implementation using Prometheus

Multi-window burn rate alert

```
slo:error\_ratio1h\{app="foo"\} > (14.4*0.001) and slo:error\_ratio5m\{job="myjob"\} > (14.4*0.001)
```

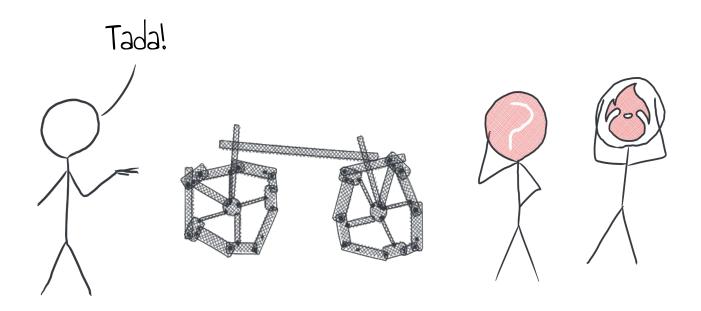
or

```
slo:error_ratio6h{job="myjob"} > (6*0.001)

and
slo:error_ratio3om{job="myjob"} > (6*0.001)
```

Burn rate is how fast you are budget error budget

Do not reinvent the wheel





Links

Pyrra

Sloth

slo-libsonnet

slo-exporter

<u>OpenSLO</u>