

A Practical Guide to Dashboarding



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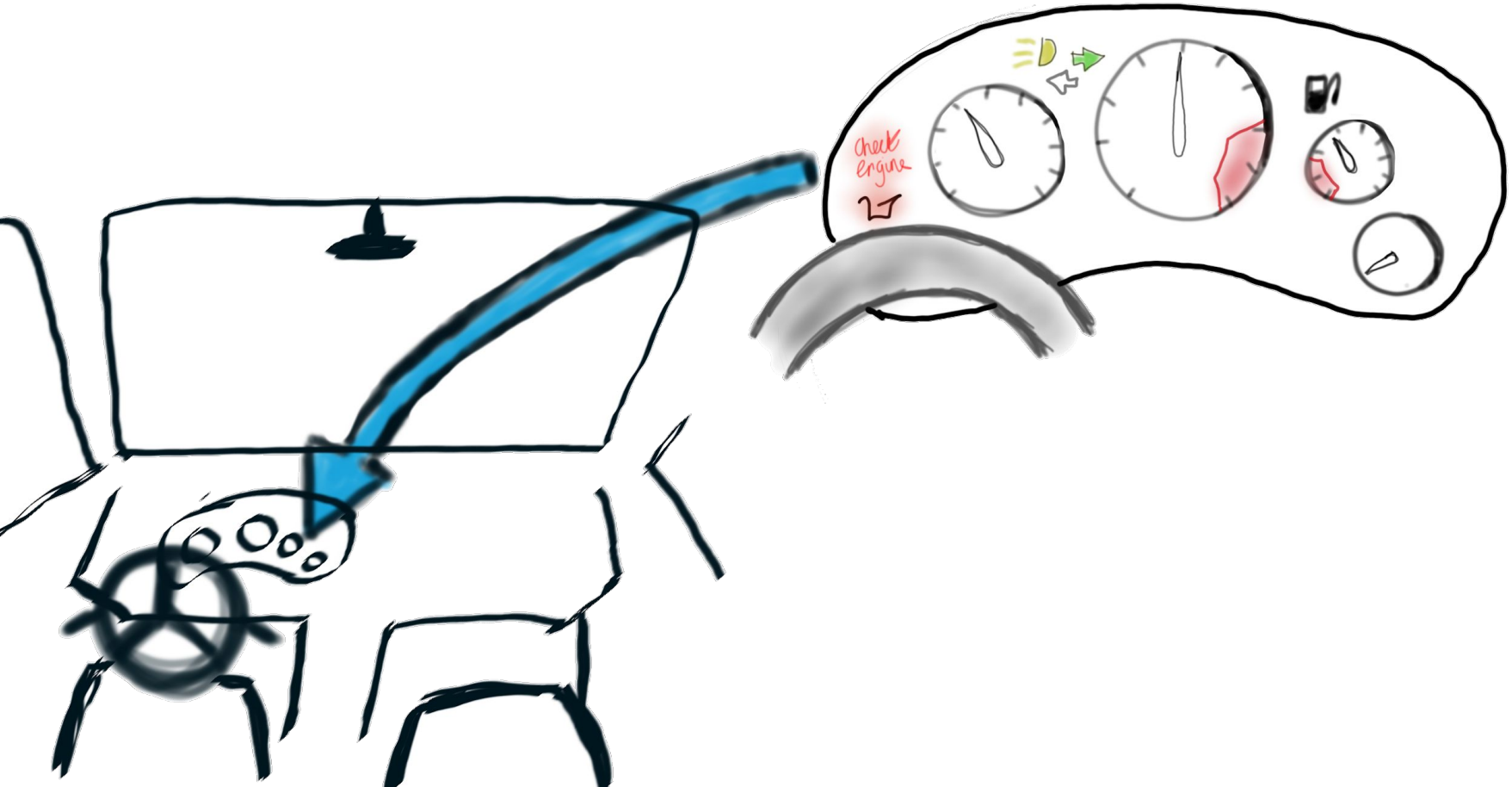
UNiDAYS

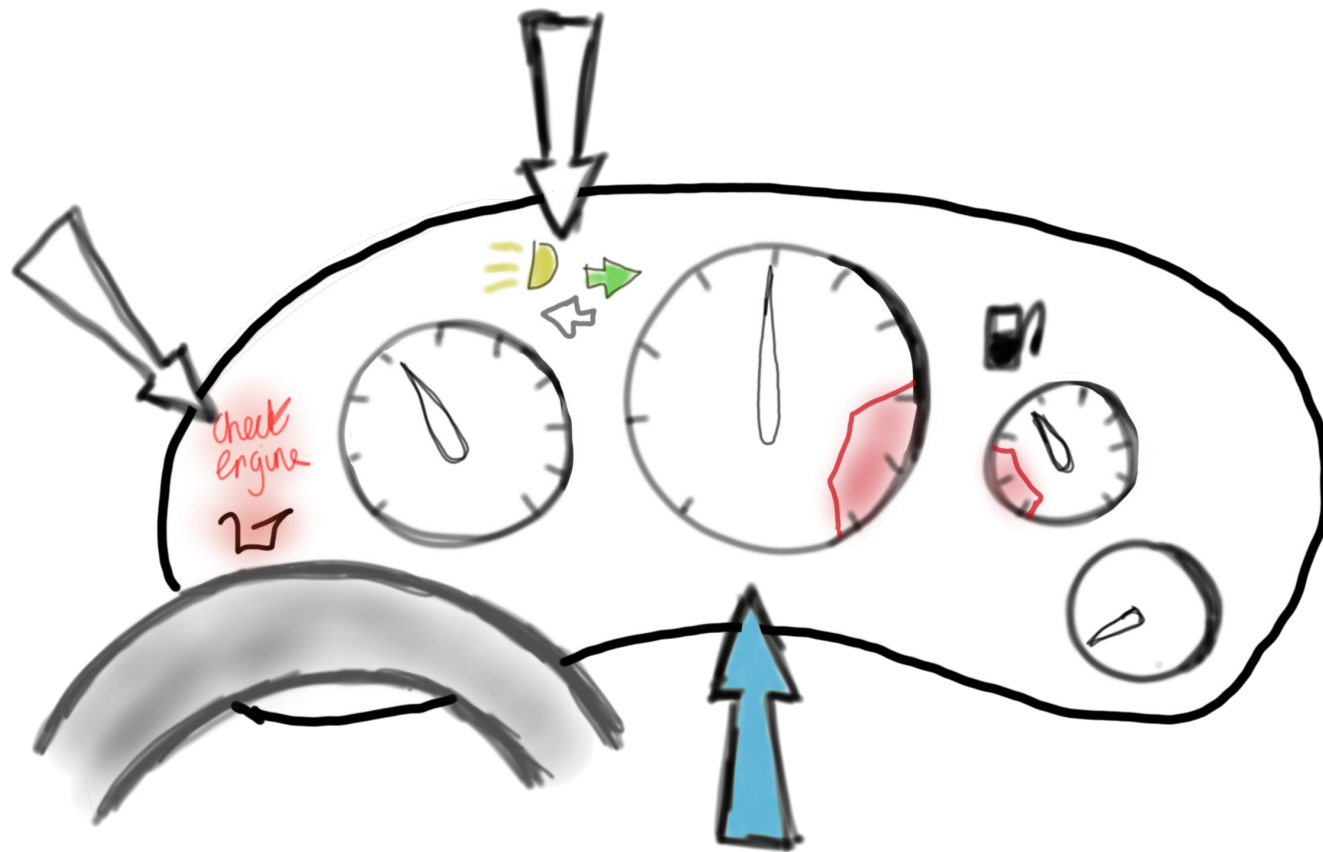
What Is A Dashboard & Why Should I Care?

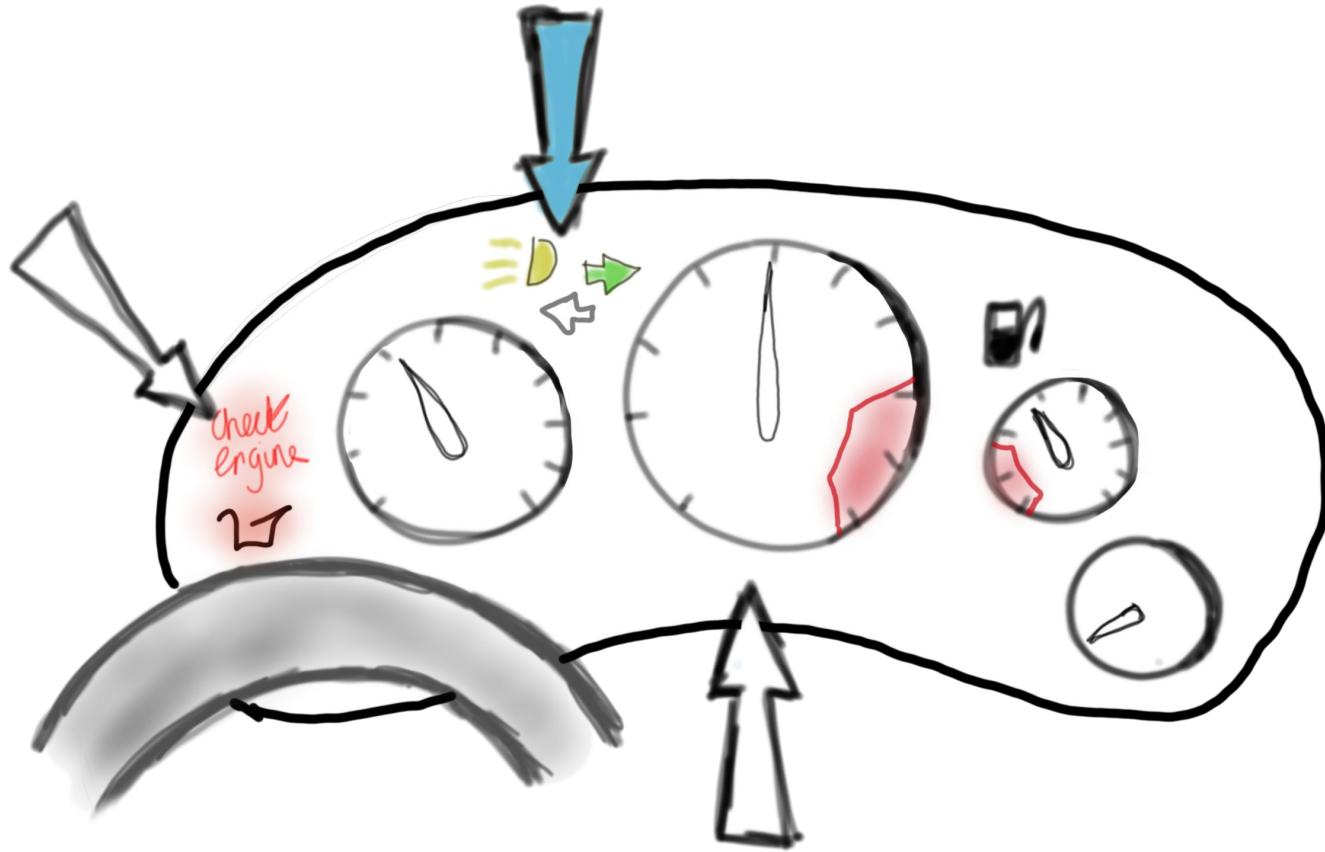


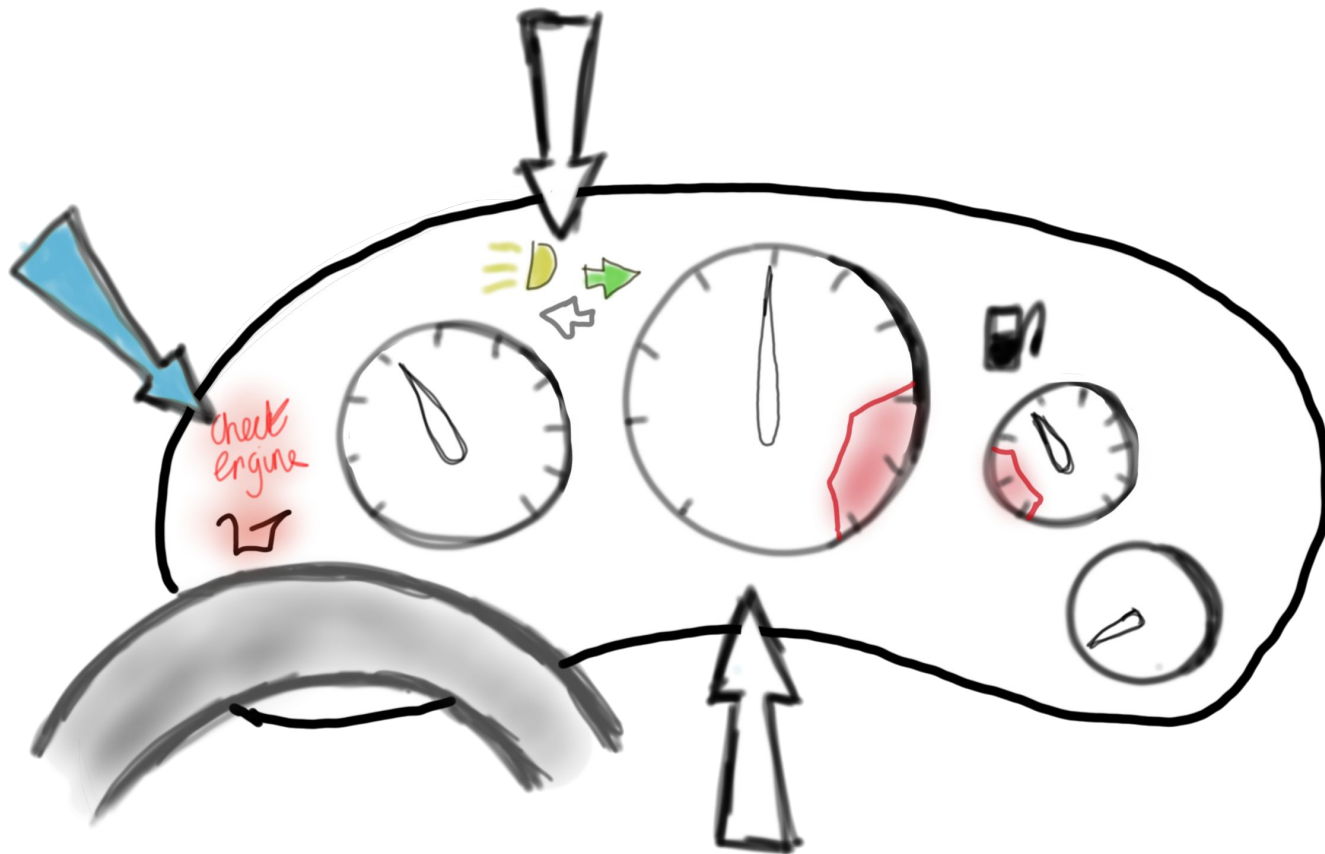


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Suggested Baselines





Metrics VS Diagnostics

- High level view
 - For assessing a system and spotting issues
 - Kept in present view
- Log analytics
 - For tracing and debugging
 - Used when fixing issues

Services

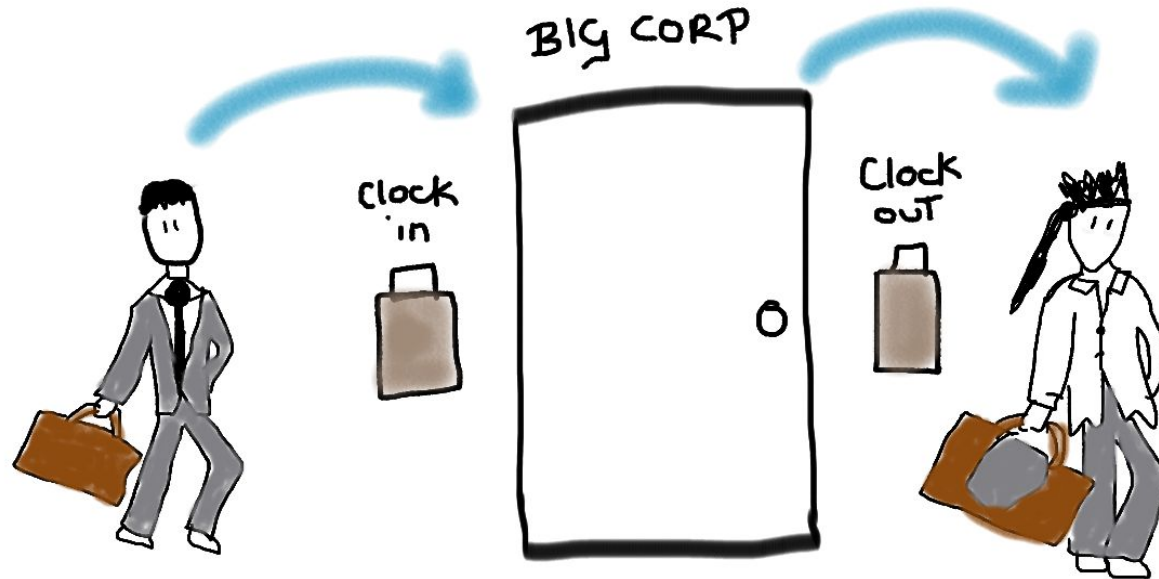


U.S.E



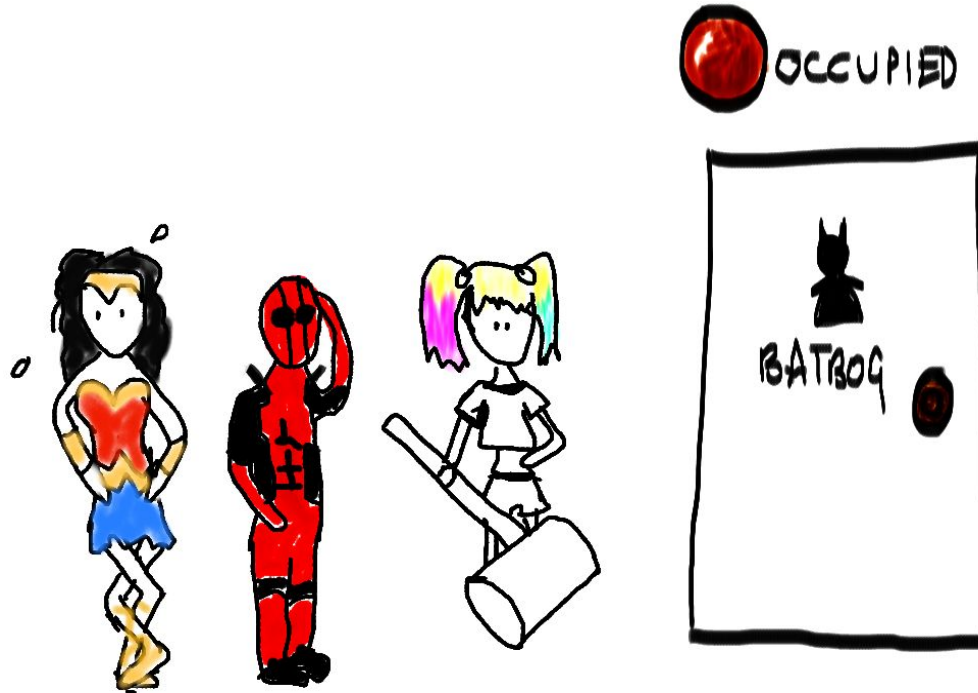


Utilisation



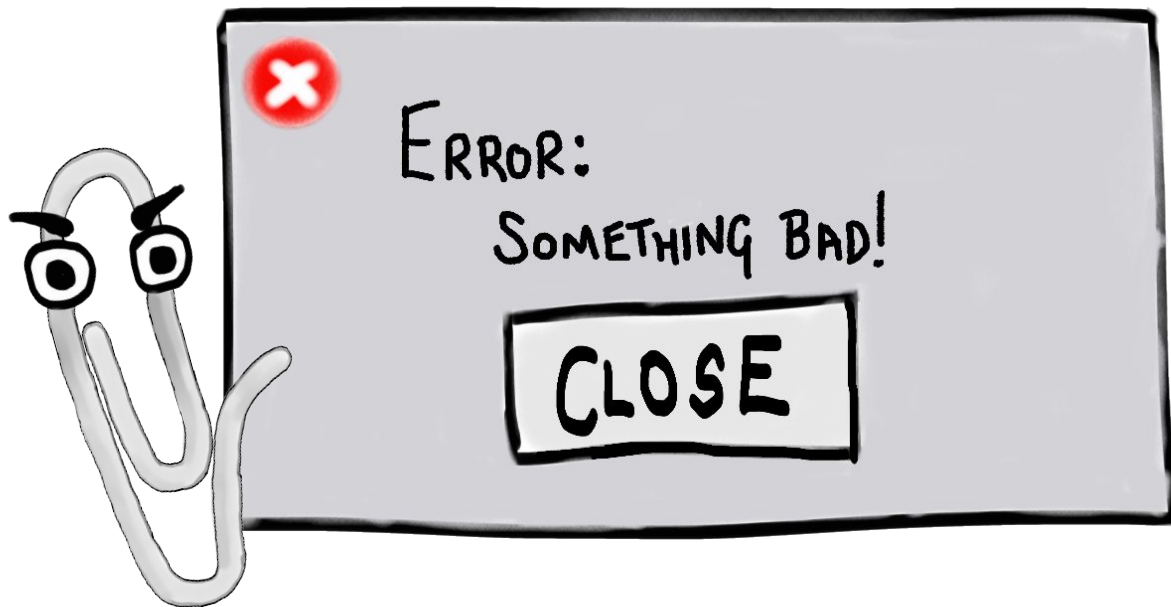


Saturation





Error



APIs





Four Golden Signals - Google

Traffic

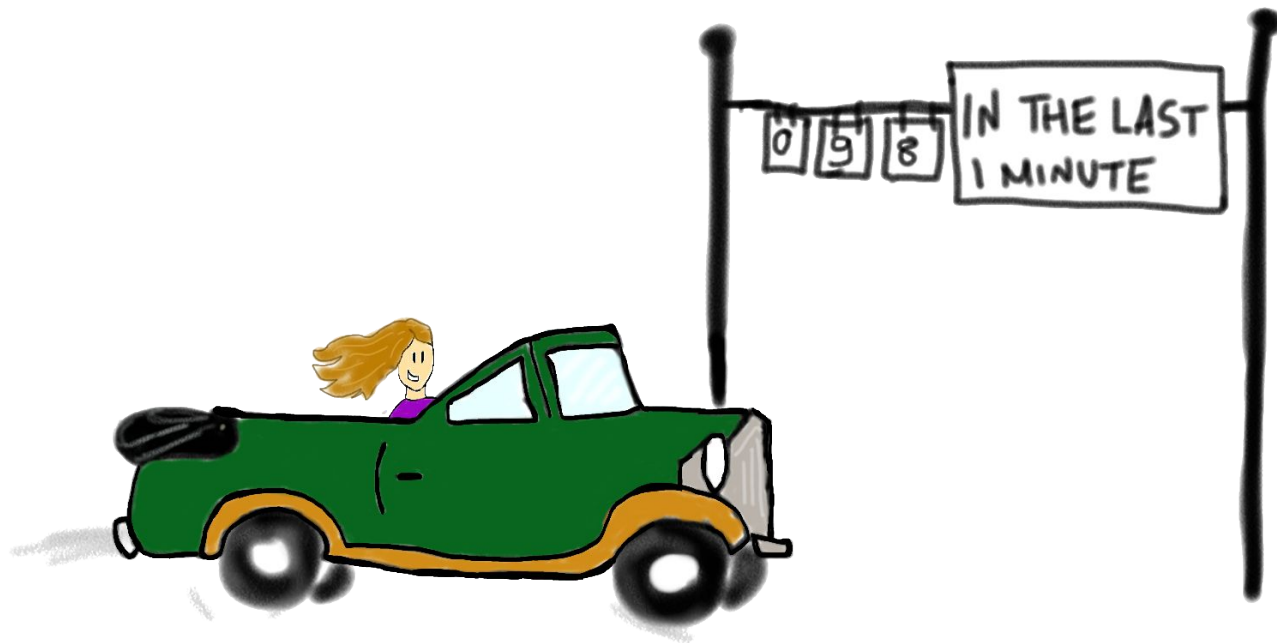
Error

Latency

Saturation



Four Golden Signals - Google

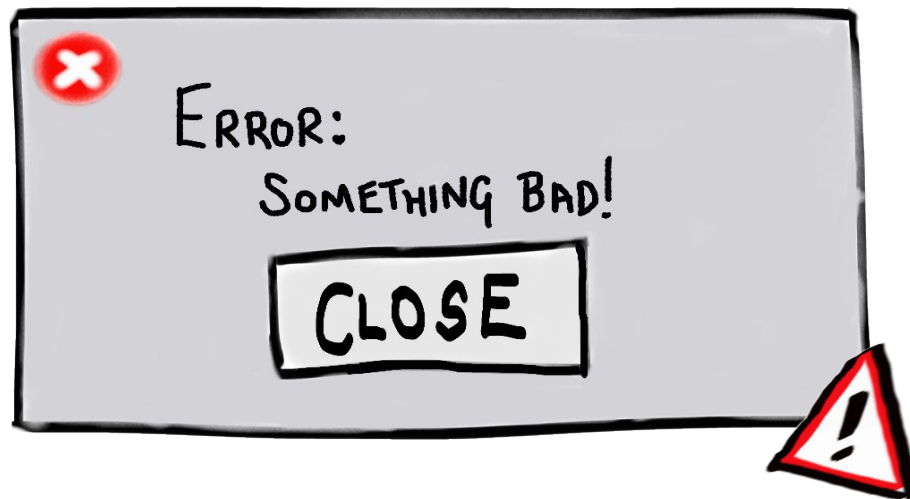


Traffic





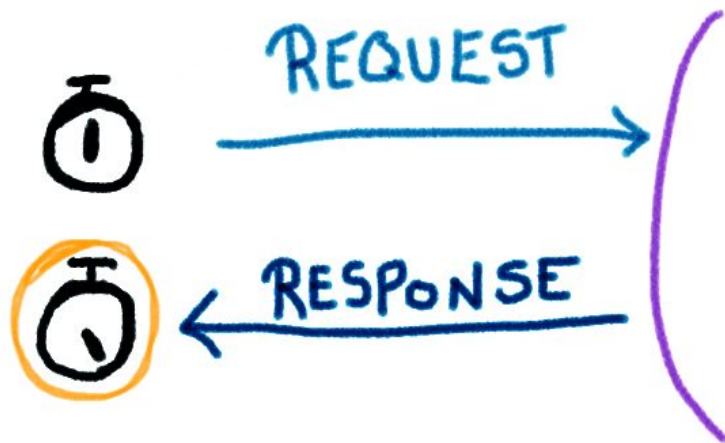
Four Golden Signals - Google



Error



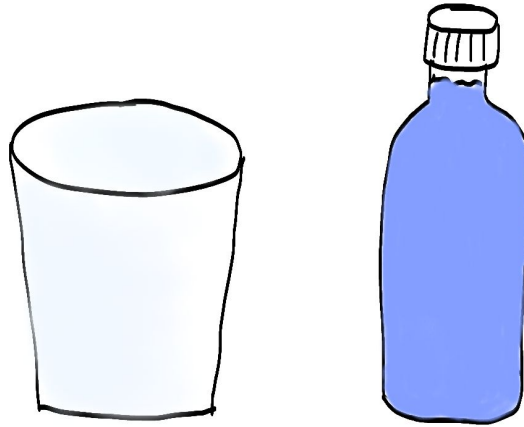
Four Golden Signals - Google



Latency



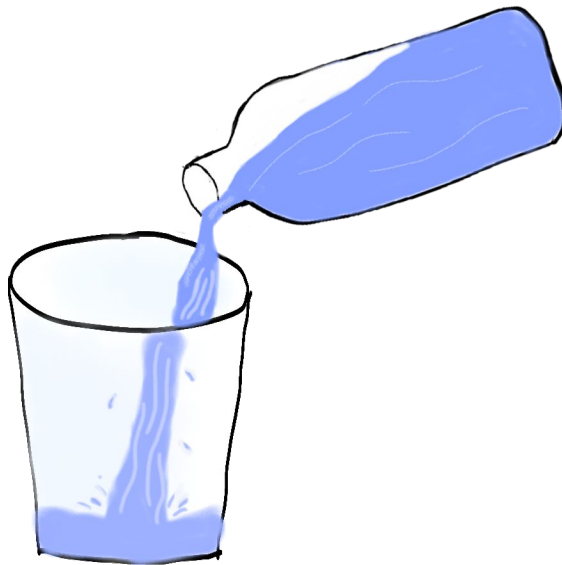
Four Golden Signals - Google



Saturation



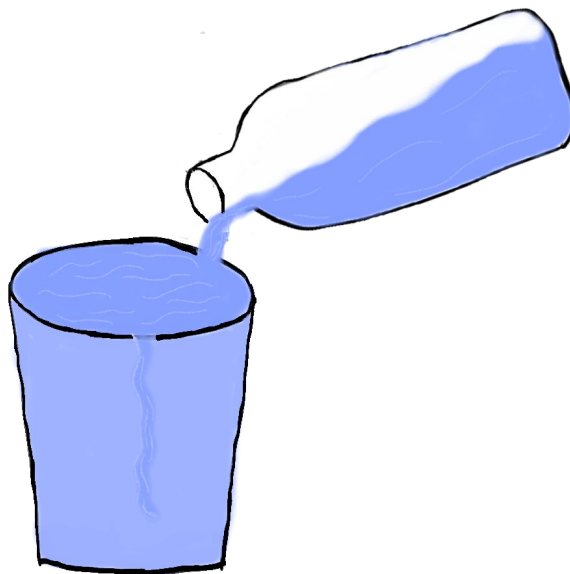
Four Golden Signals - Google



Saturation



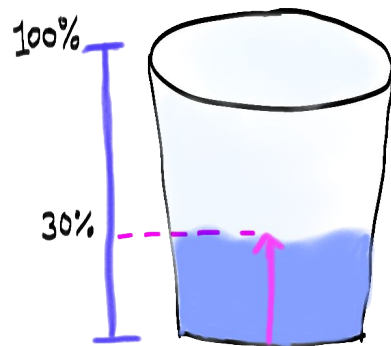
Four Golden Signals - Google



Saturation



Four Golden Signals - Google



Saturation



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R.E.D

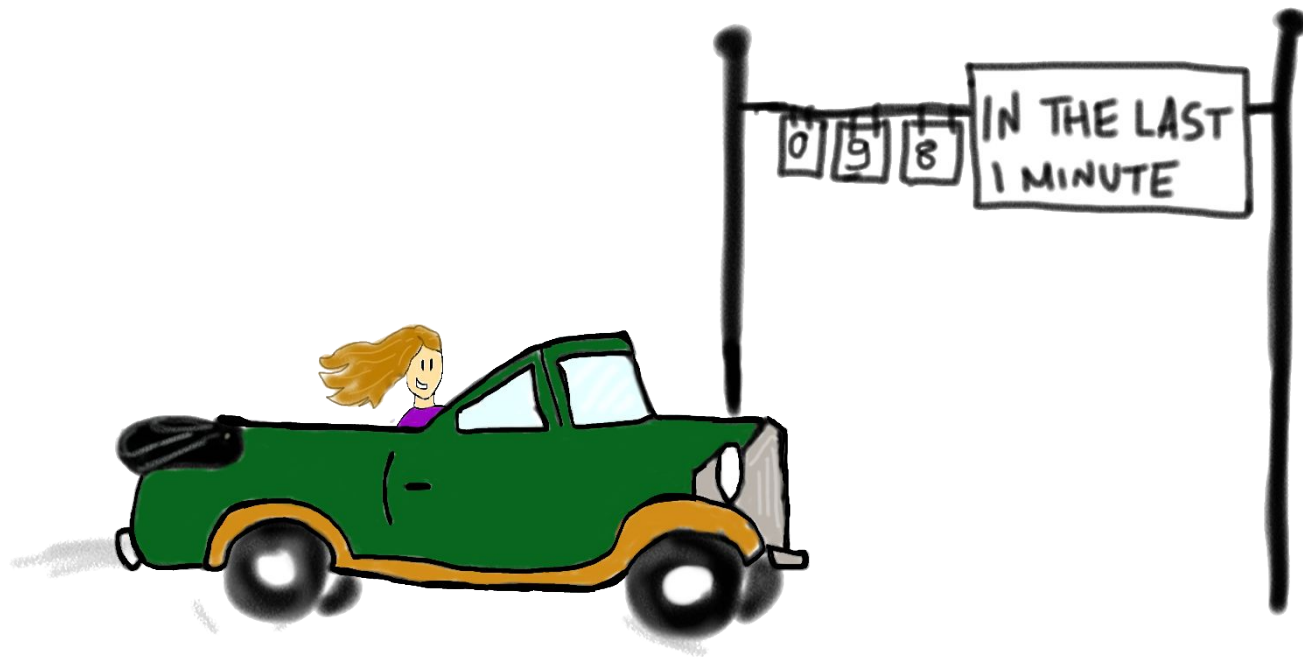
Rate

Error

Duration



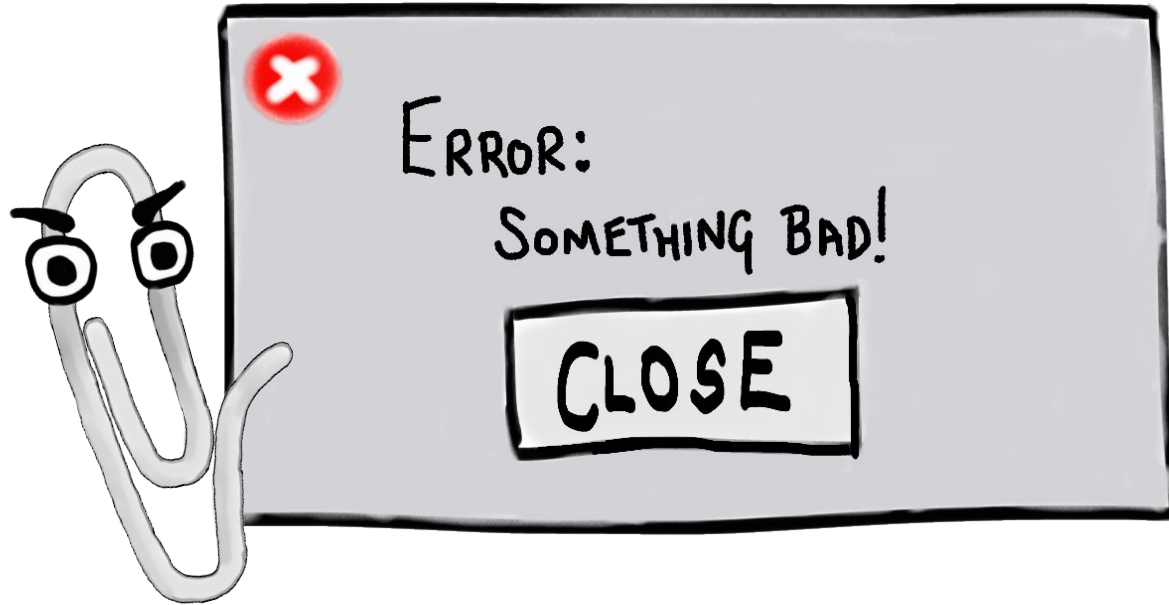
R.E.D



   Rate   



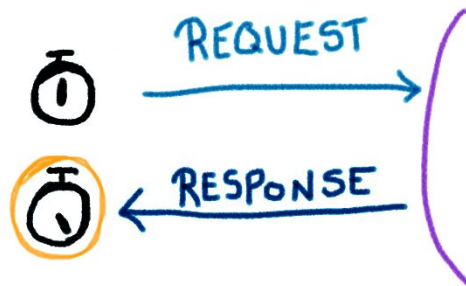
R.E.D



Error



R.E.D



Duration



Rate

Traffic

Error

Error

Duration

Latency

~~Saturation~~



Response API

Includes calls to the
servSTATSD

REQUEST

RESPONSE



STATSD
SERVER



graphite

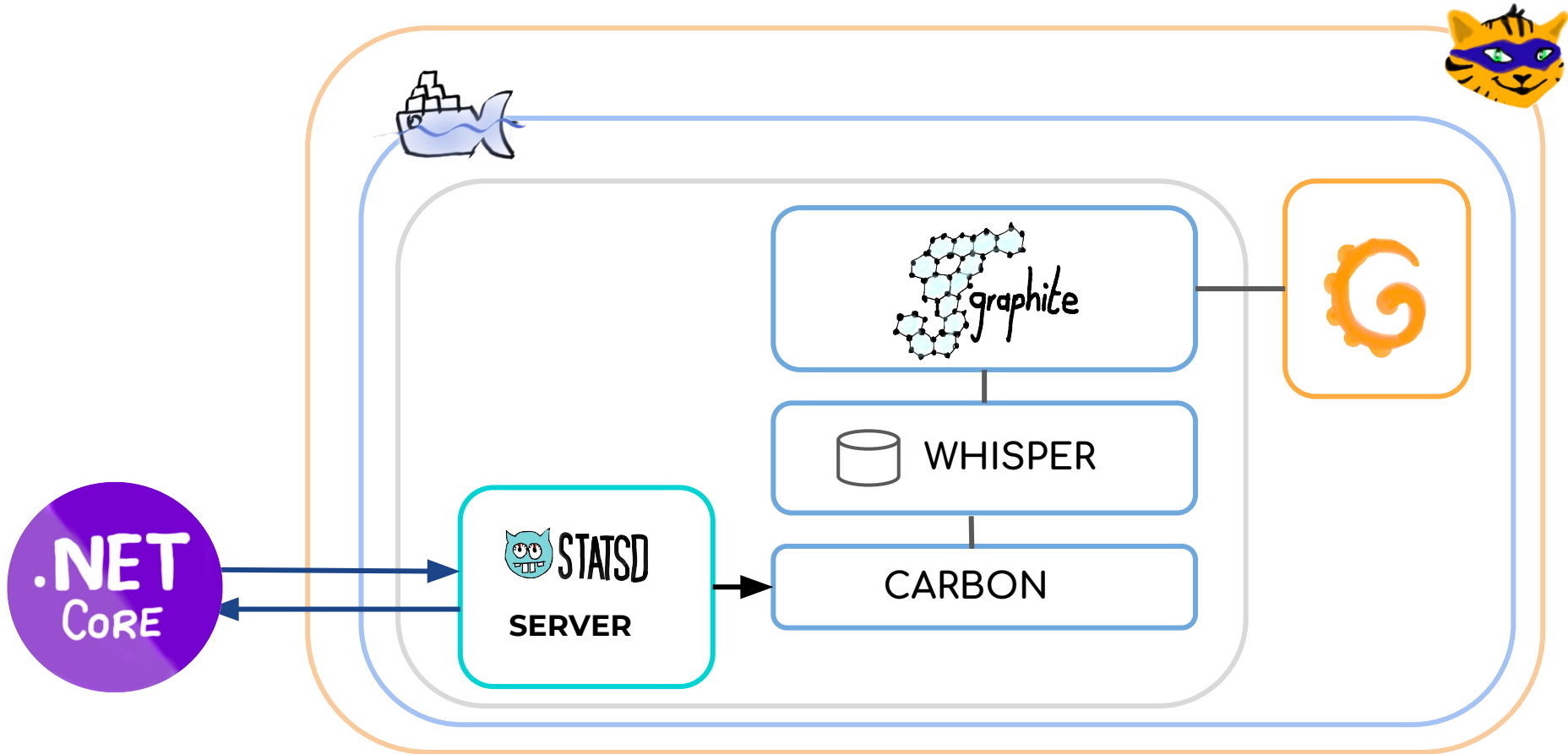




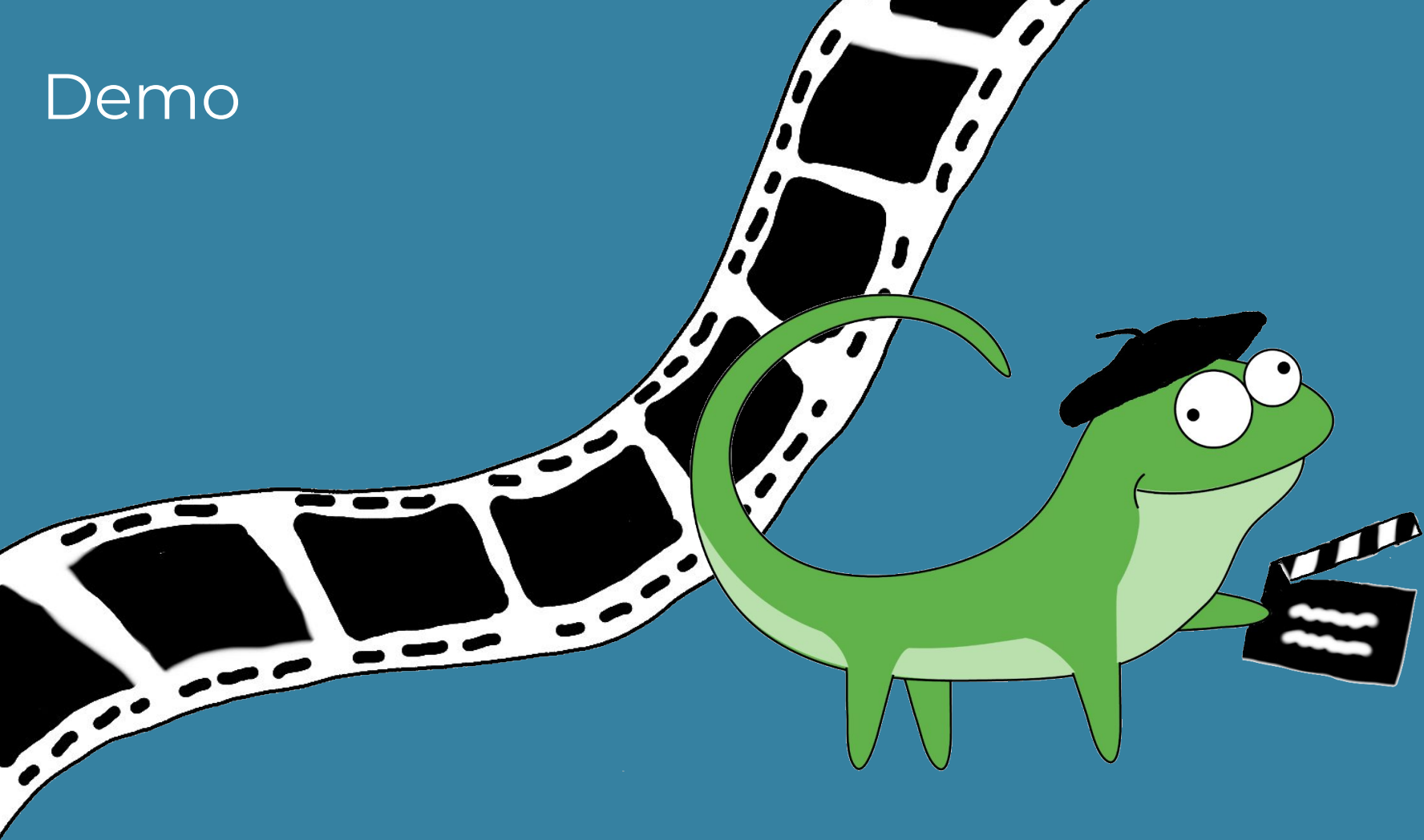
46 lines (40 sloc) | 1.3 KB

Raw Blame History

```
1 using JustEat.StatsD;
2 using Microsoft.AspNetCore.Builder;
3 using Microsoft.AspNetCore.Hosting;
4 using Microsoft.Extensions.Configuration;
5 using Microsoft.Extensions.DependencyInjection;
6
7 namespace response_api
8 {
9     public class Startup
10     {
11         public Startup(IConfiguration configuration)
12         {
13             Configuration = configuration;
14         }
15
16         public IConfiguration Configuration { get; }
17
18         public void ConfigureServices(IServiceCollection services)
19         {
20             services.AddMvc();
21         }
22
23         public void Configure(IApplicationBuilder app, IHostingEnvironment env)
24         {
25             if (env.IsDevelopment())
26             {
27                 app.UseDeveloperExceptionPage();
28             }
29             var statsDConfig = new StatsDConfiguration{
30                 Host = "graphite"
31             };
32             var statsDPublisher = new StatsDPublisher(statsDConfig);
33
34             app.Use(async (context, next) =>
35             {
36                 using (var timer = statsDPublisher.StartTimer("thing"))
37                 {
38                     await next();
39                     timer.StatName = $"response-api.code.{context.Response.StatusCode}";
40                 }
41             });
42
43             app.UseMvc();
44         }
45     }
46 }
```



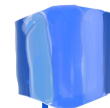
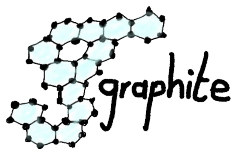
Demo





Task definition includes:

- Docker image
- Port mappings
- Environment variables
- Postgres endpoint
- Graphite address



Postgres



Whisper

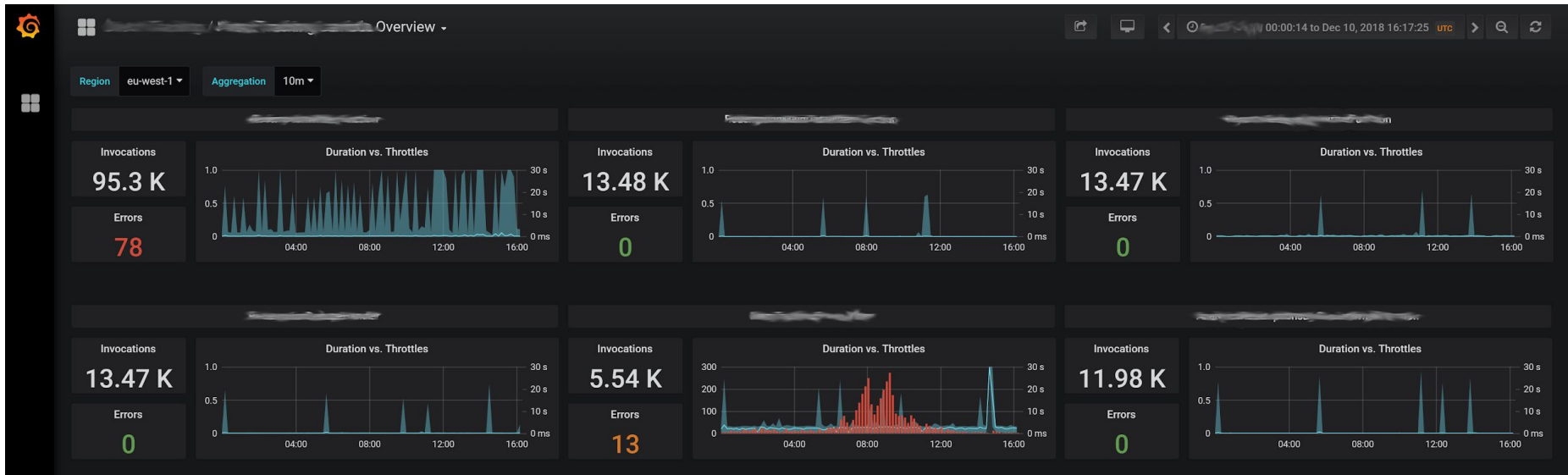


STATSD

Config

Do these metrics help you in real
life?







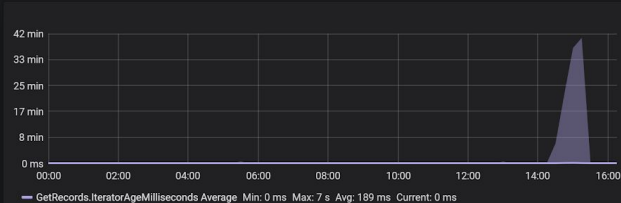
CloudWatch / AWS Kinesis



now/d to now-1m utc Refresh every 5m

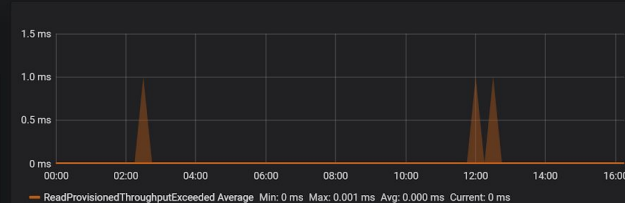
Avg. Iterator Age

199.01
ms



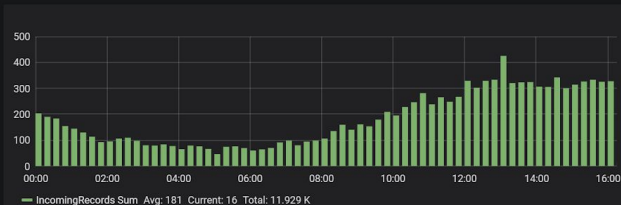
GetRecord Throttles

0



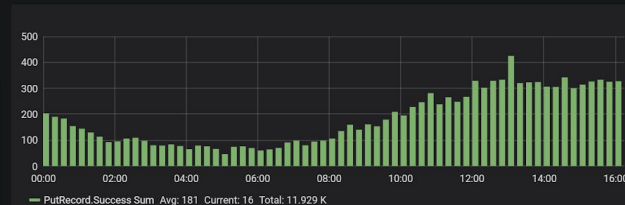
Incoming Records

11.93 K

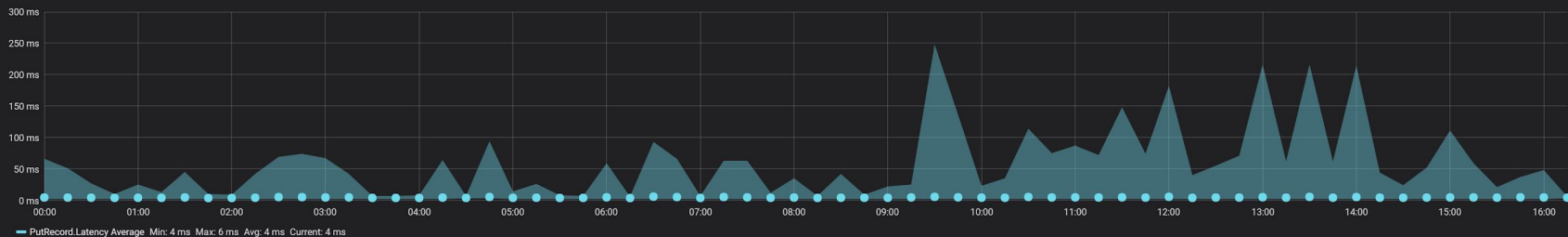


PutRecord Success

11.93 K



PutRecord Latency



Where Can I Learn More?



These slides and resources will be made available on my be.notist page after this session:

<https://noti.st/jesspwhite>

The link to which will be shared on Twitter @JessPWhite



Tom Wilkie -The Red Method: How To Instrument Your Services

- [Talk from Influx Days](#)
- [Slides From GrafanaCon EU](#)

Brendan Greg -The USE Method

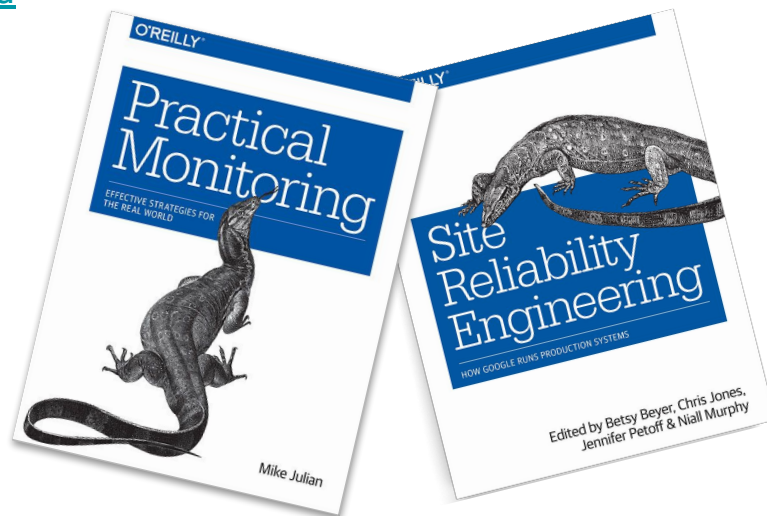
- [Article on USE Method](#)

Google SRE Book

- [Book available online](#)
- [Other google SRE resources](#)

Extra

- [I also occasionally blog](#)





HEY!
TECH
CHATTER...

MORE EQUALLY
AWESOME
CHATTER!





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DDD East Midlands

DDD East Midlands is an inclusive, not-for-profit technology conference that celebrates the unique tech, talent and companies that the East Midlands has to offer. This event is run by community members to promote collaboration and the amazing tech community that has already grown in the East Midlands.

This conference follows these DDD principles:

- The event is hosted on a Saturday so that attendees do not have to take time from work.
- Tickets to attend the event are free.
- All talk submissions are anonymous.
- There is a democratic selection process for talks involving attendees voting for what they want to see.
- The event is arranged with the community in mind.

To find out more, see our [About Page](#). If you are interested in sponsoring the event email sponsor@ddeastmidlands.com

Important Dates





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Thank you for listening

