Metrics Driven Development

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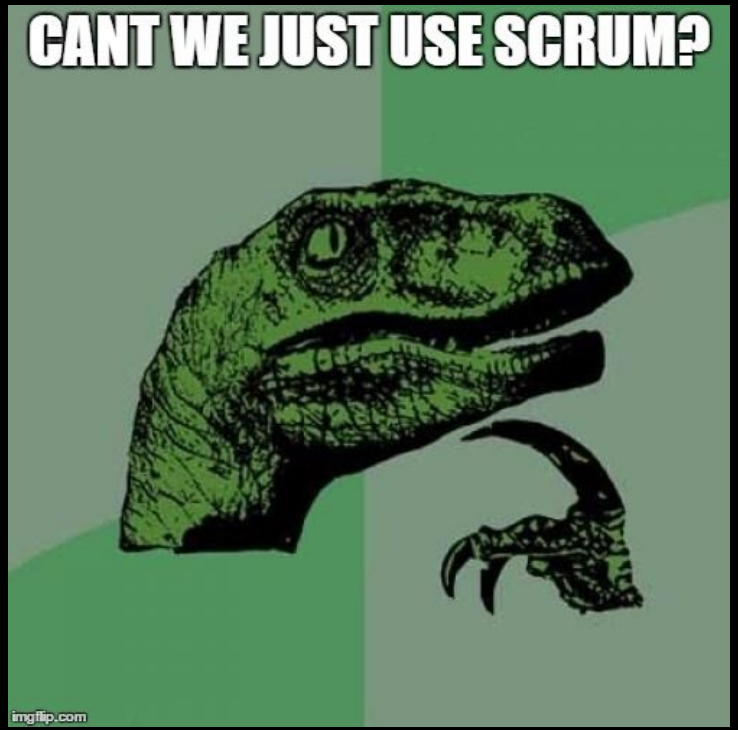
Events
CQRS
Samelamin
Cloud
Microservices
DDD
Monolithic
Docker
Commands
Distributed
Messages
WordItOut

Scrum?



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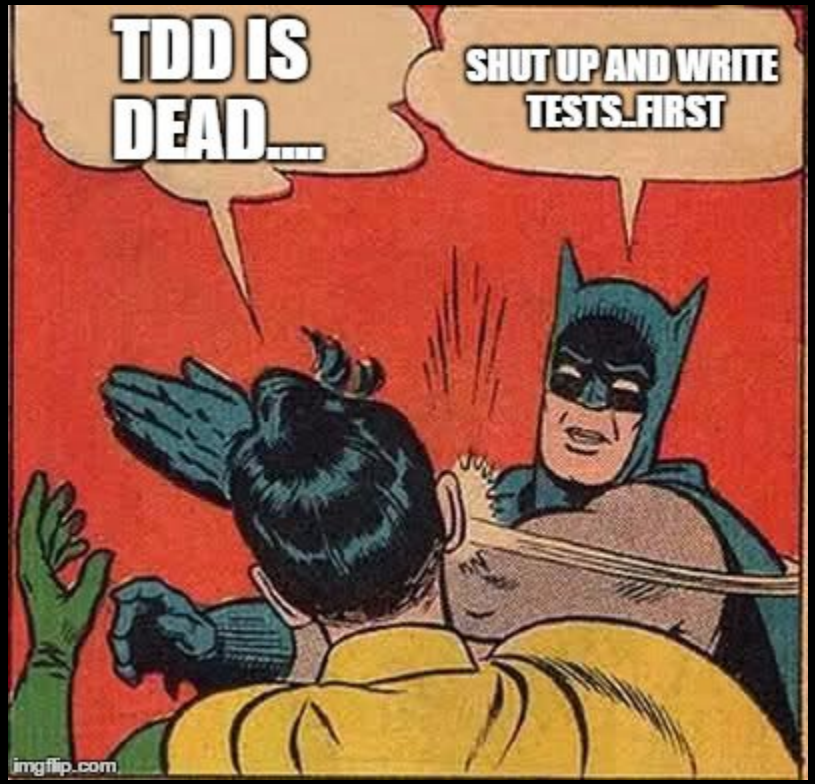
How about TDD?



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Maybe BDD?

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WTF is Metrics Driven Development?

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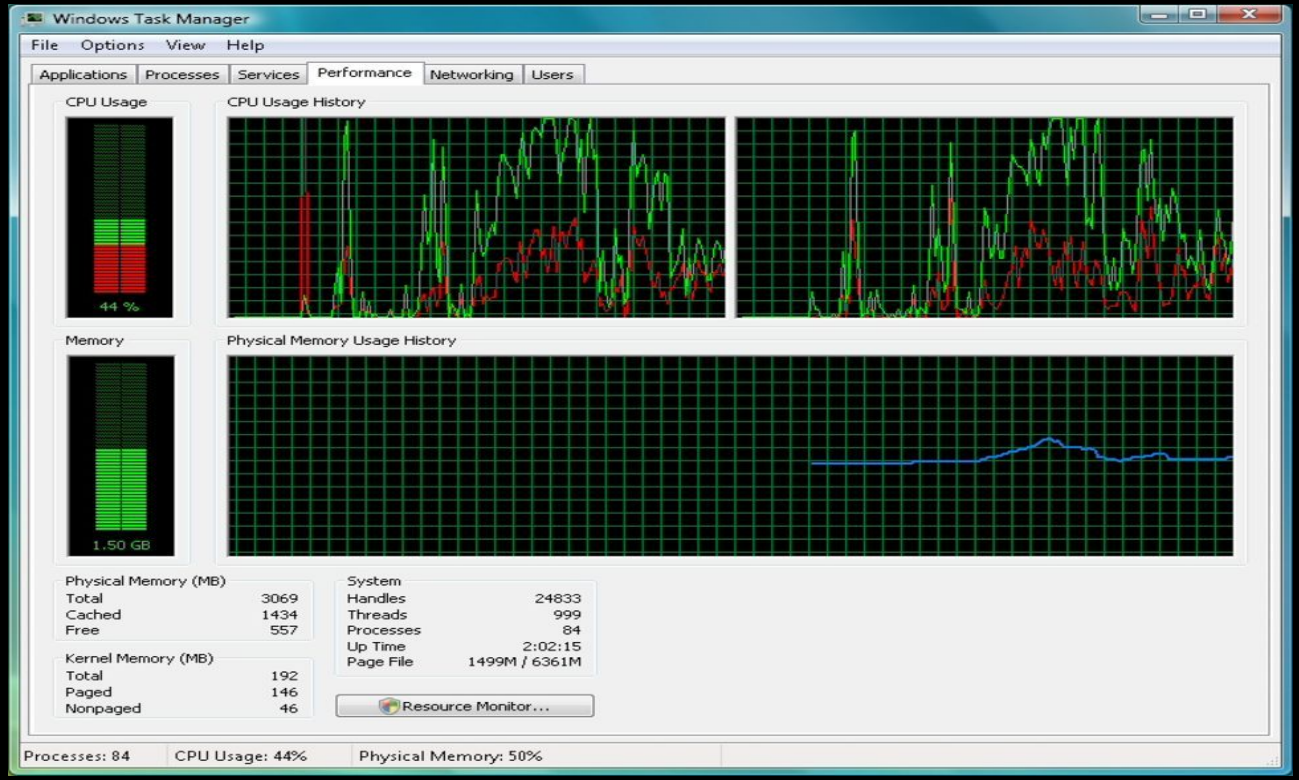
How are the servers running?



Sounds like an Ops job

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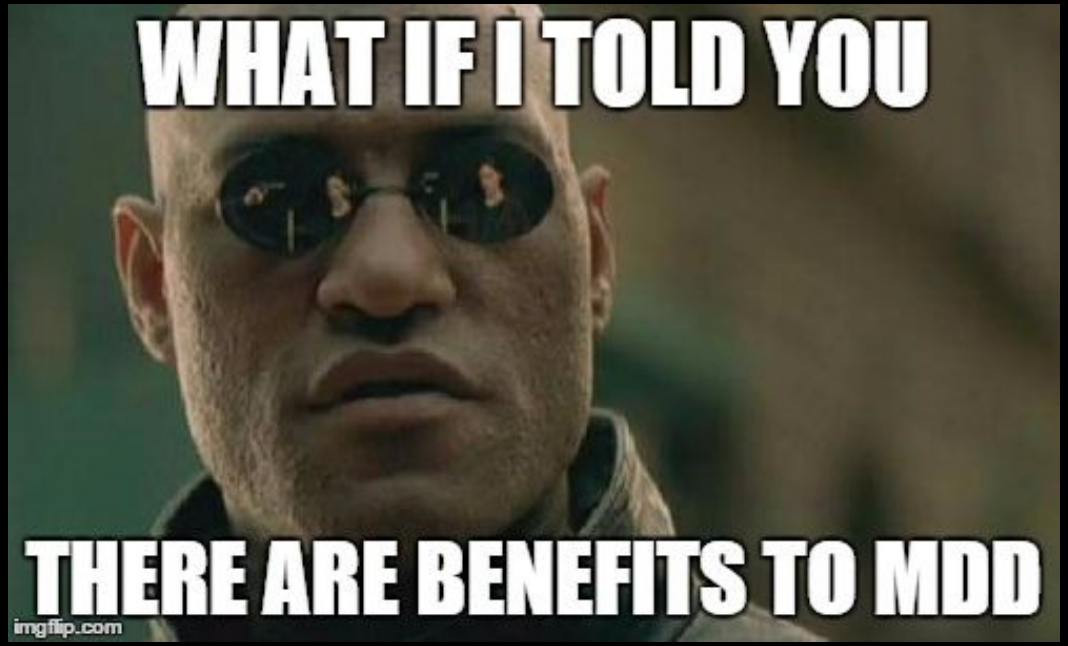
Engineers built it!

Benefits of MDD



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No More RDP!

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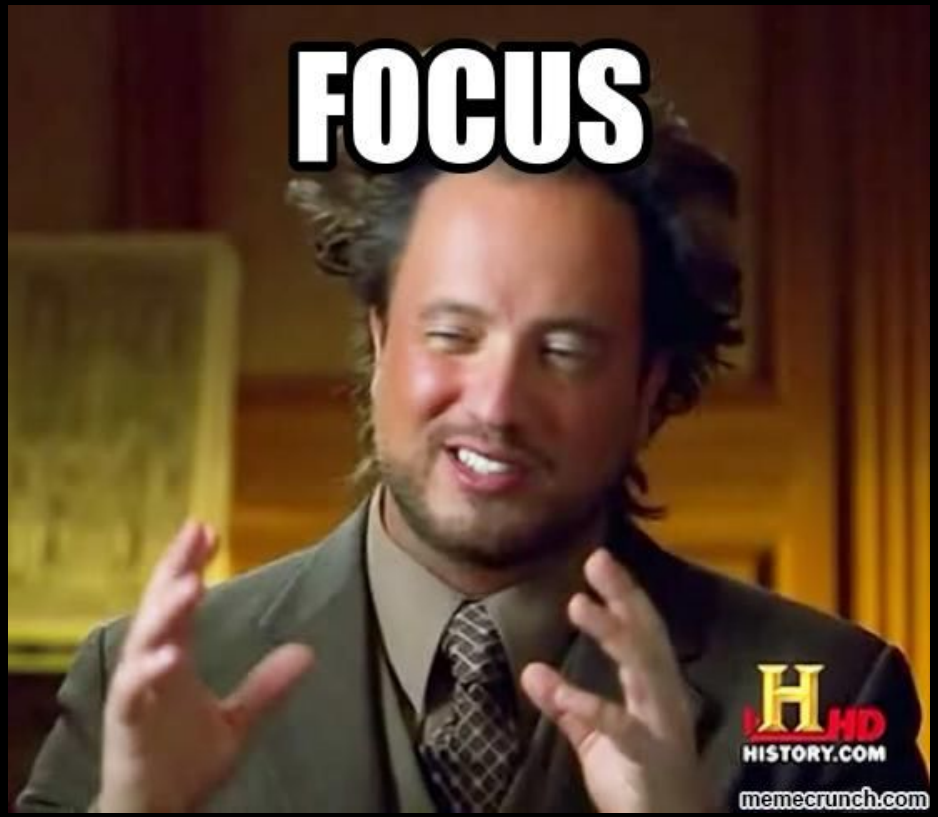
Focus on what matters!



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With metrics come freedom!

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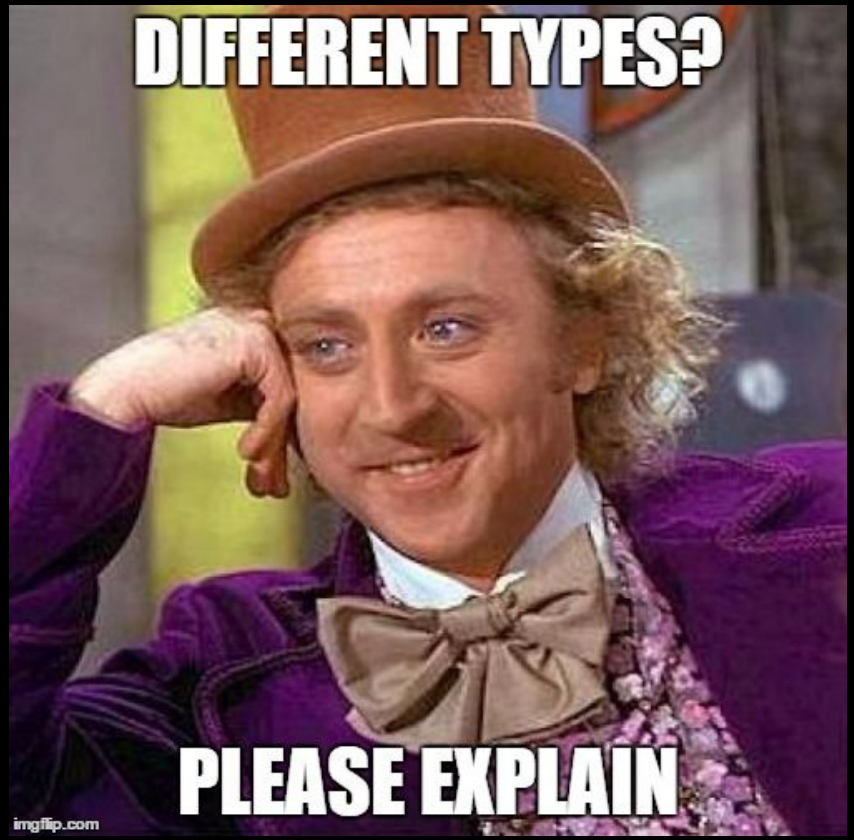
Types of Metrics



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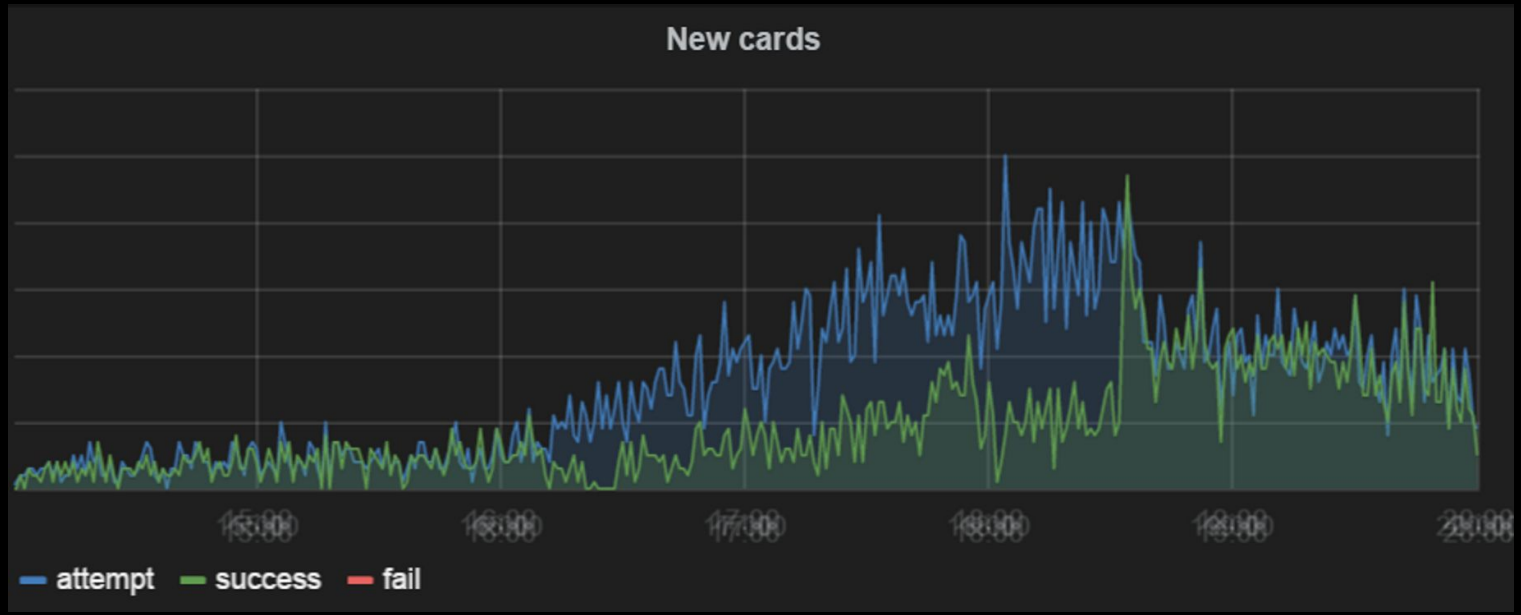
Business Metrics



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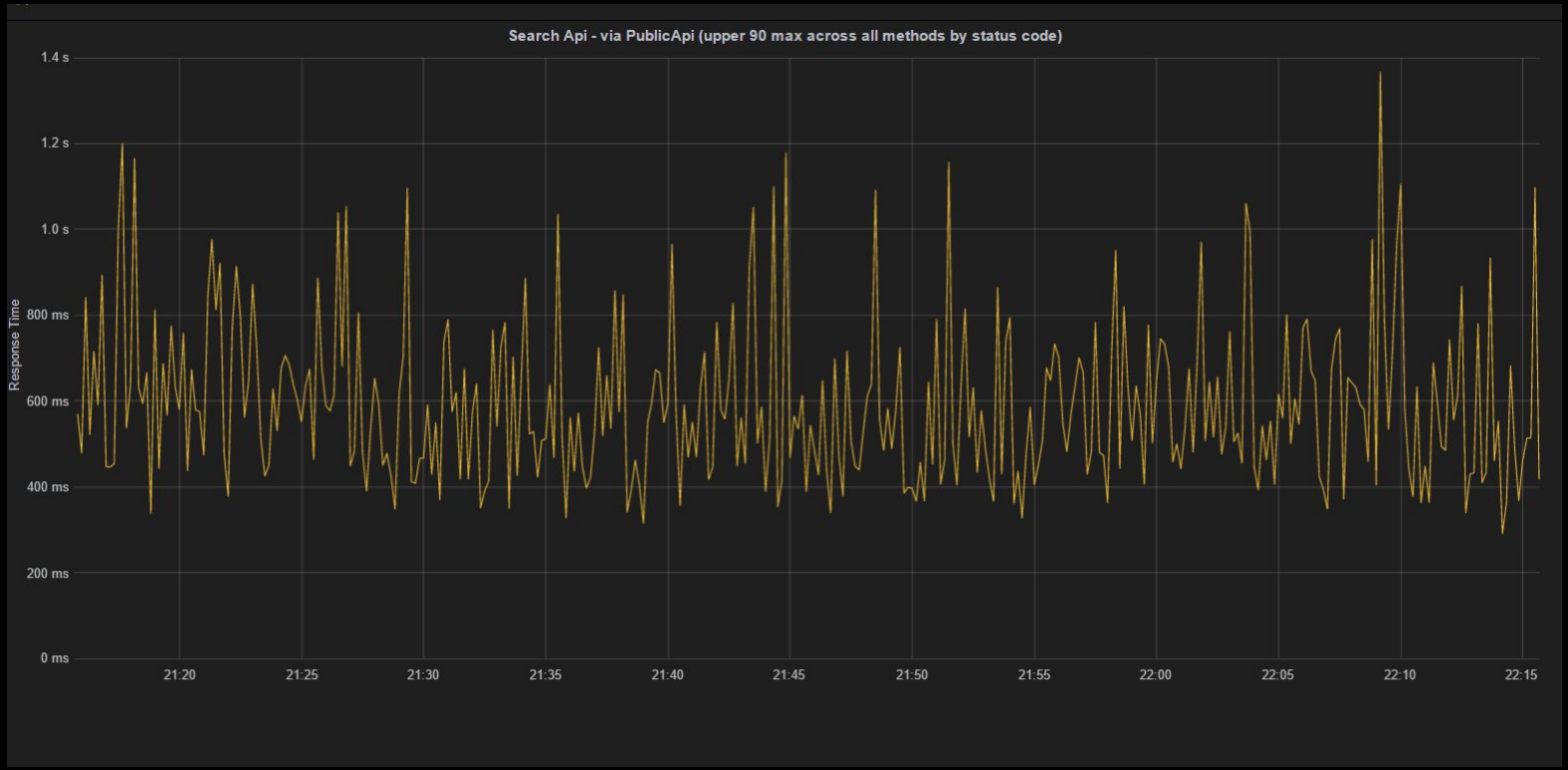
Application Metrics



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Infrastructure Metrics

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Follow the money!

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OK. Sounds good so how do we actually implement MDD

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Assign metrics to metric owners

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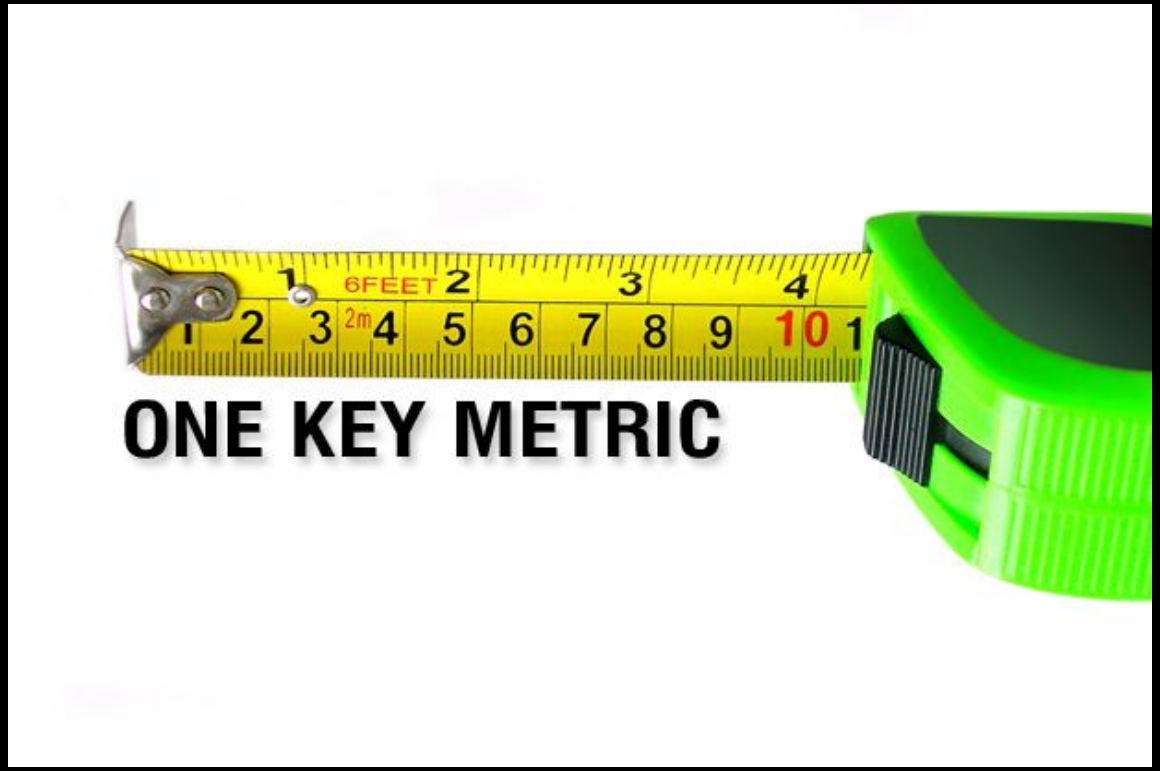
Start collecting metrics



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Sample Metric

Counter: uk.payments.attempts:1|c

Timer: uk.payments.attempts:34|ms

Gauge: uk.payments.cpu:47|g

Then, roughly:

```
var client = new UdpClient(_hostNameOrAddress, _port)
  { Client = { SendBufferSize = 0 } };
client.Client.SendPacketsAsync(data);
```

Don't measure everything! YAGNI

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Make future decisions based on metrics

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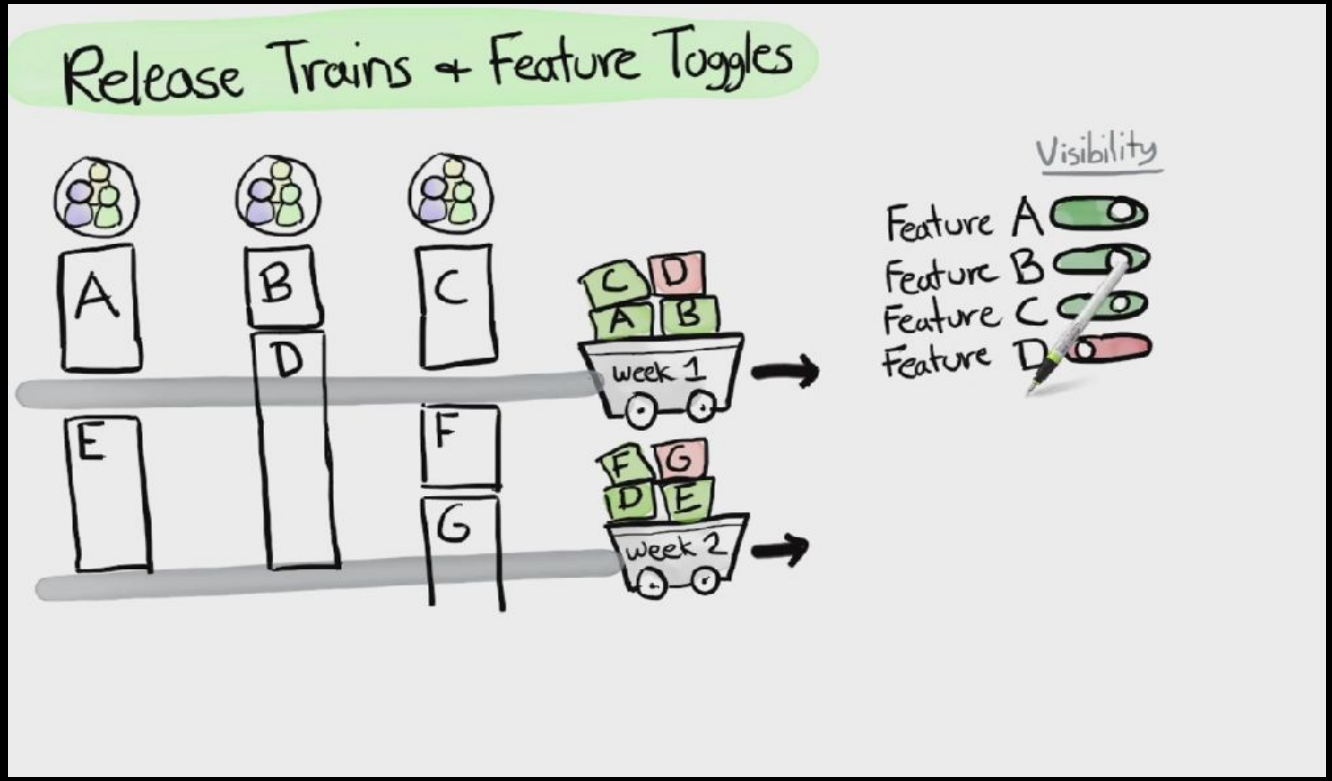
Useful Techniques

Feature Toggling



Alerts! Danger Danger!

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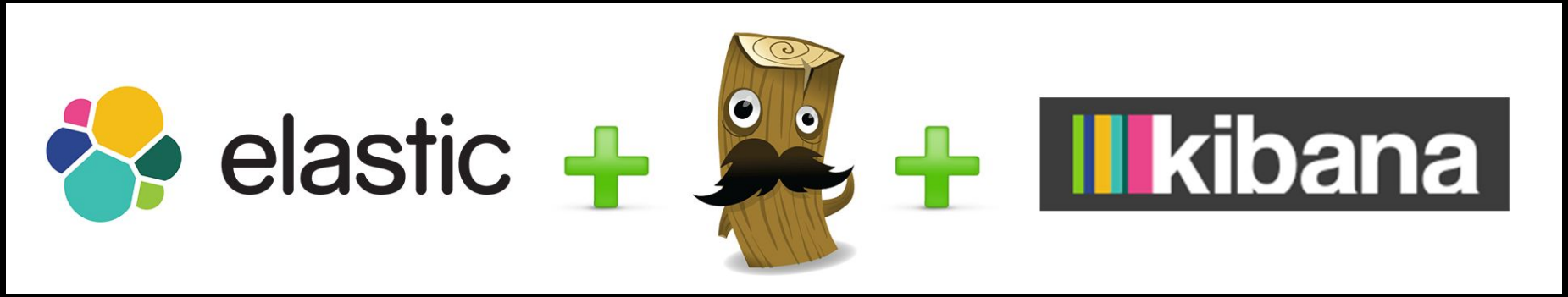
Single source of truth!



High visibility into platform

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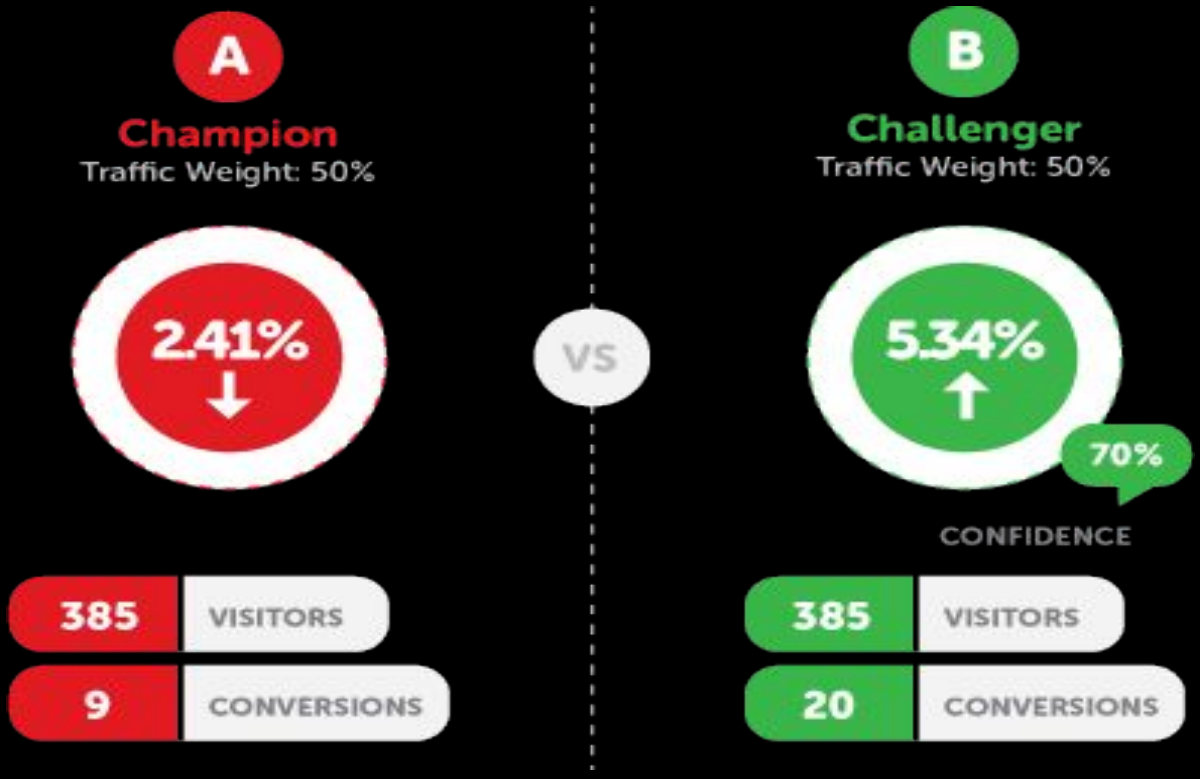
A / B Testing



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Share graphs with the business

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Options Options Options!

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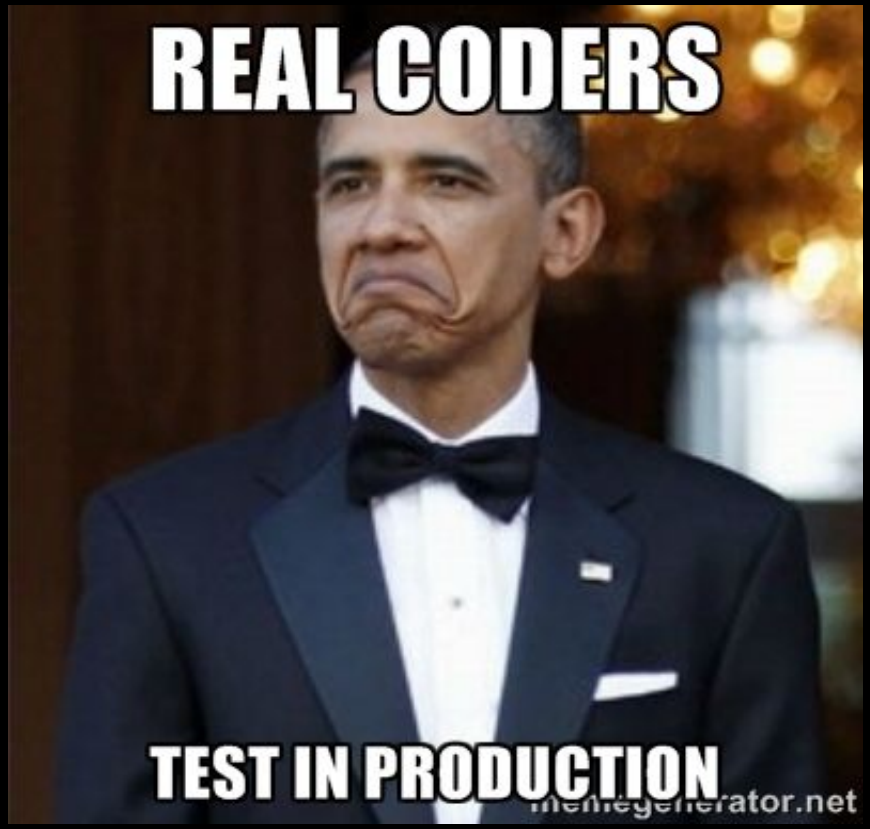
DDOS yourself to prove you can take it!



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Scalability / Capacity planning

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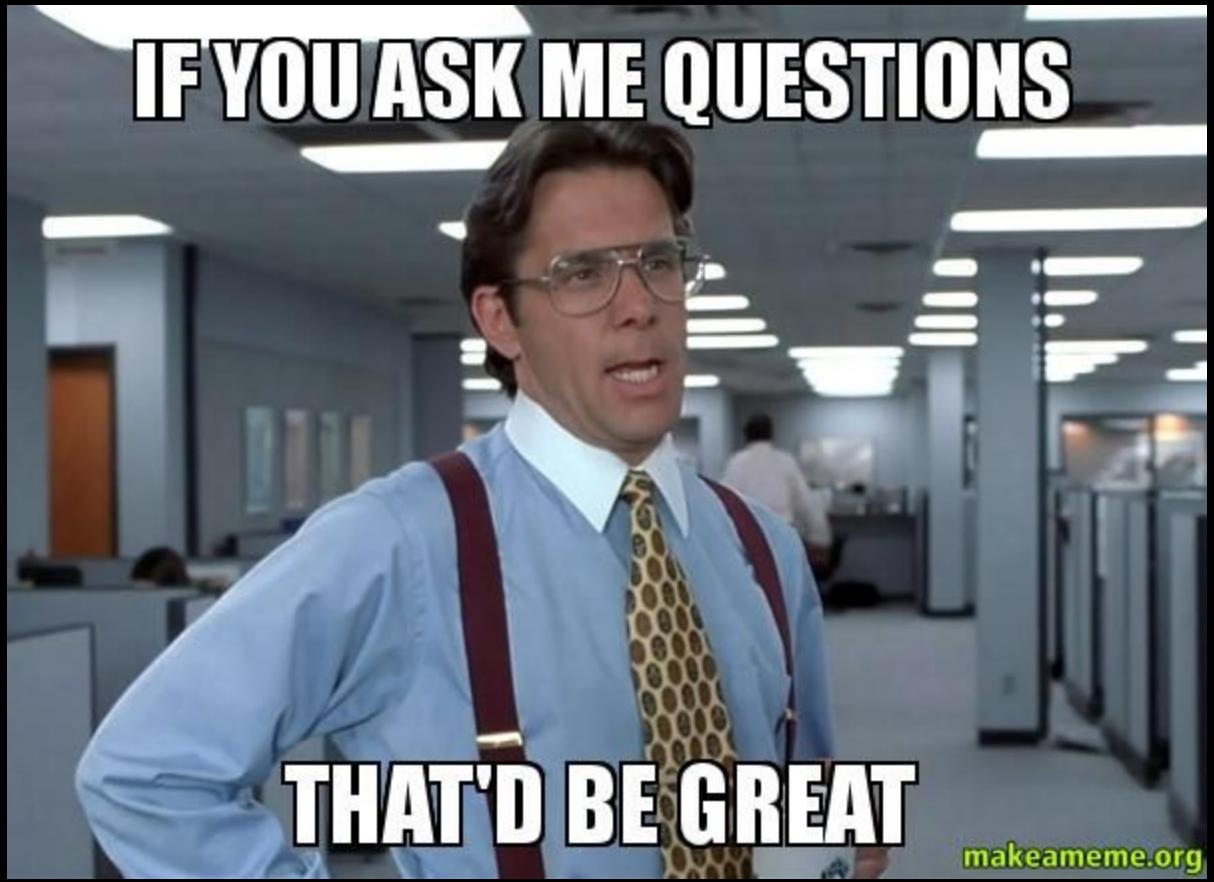
DEMO TIME!



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are hiring! Come talk to me if you want to know more….

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