

Microservices

AWS Lambda+API Gateway

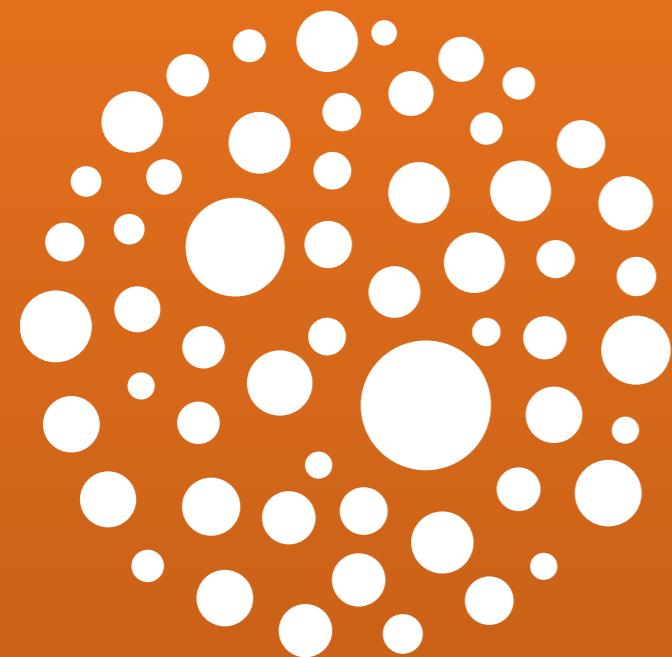
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CTO meetup
Barcelona, Nov. 27th, 2015







3scale

3scale.net/jobs

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"microservice architecture"
Search term

+ Add term

Interest over time



News headlines

Forecast

2005

2007

2009

2011

2013

2015

</>

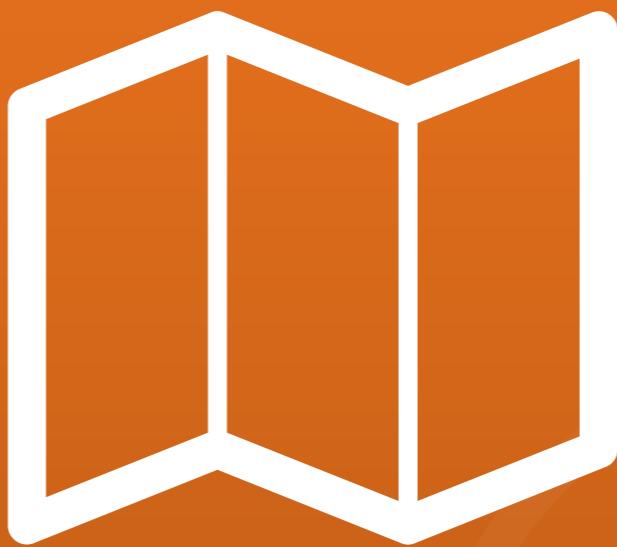
You are already doing
micro-services

You are already
(kind of)
doing micro-services



Braintree
A *PayPal* Company

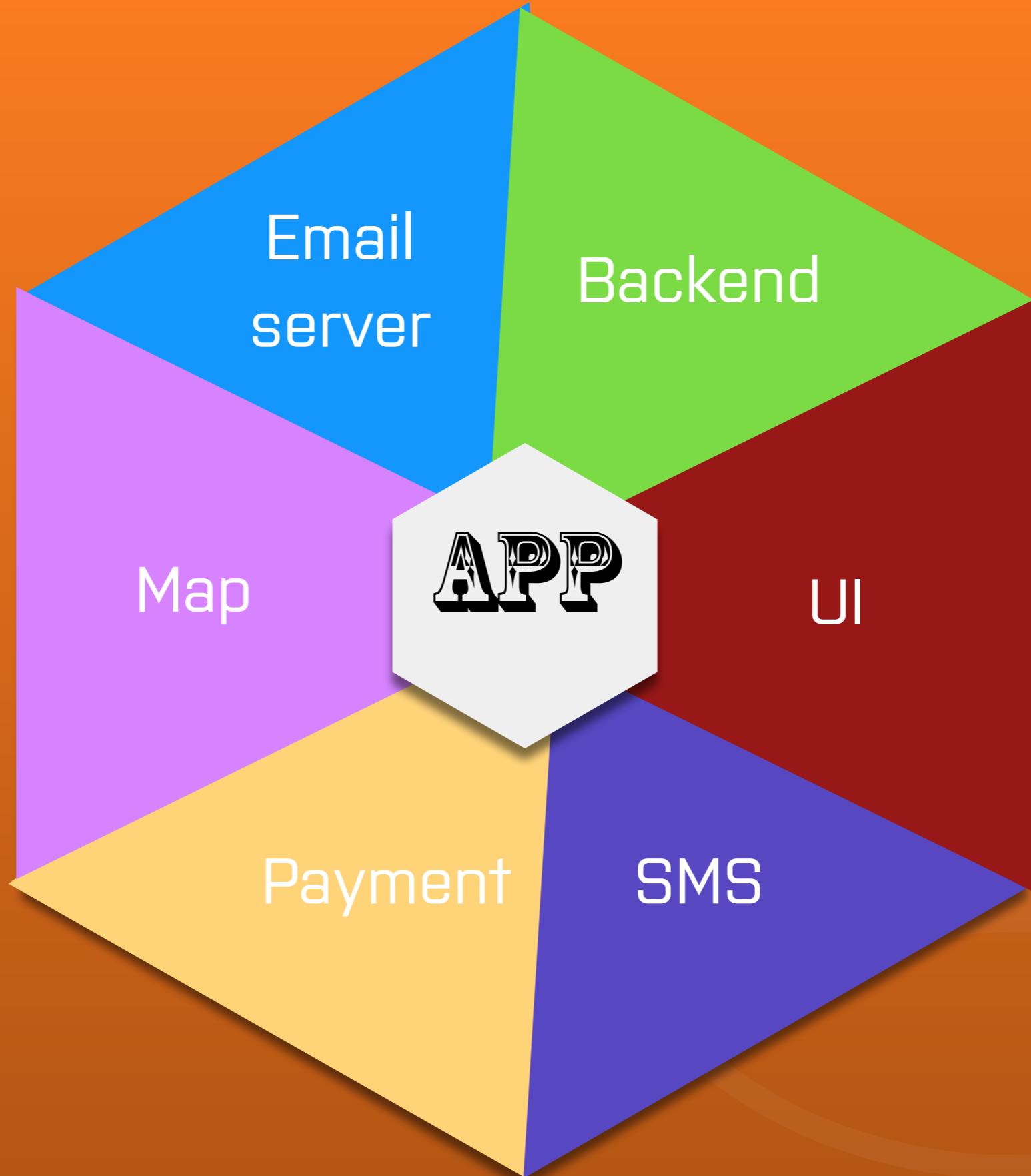
stripe



Google maps

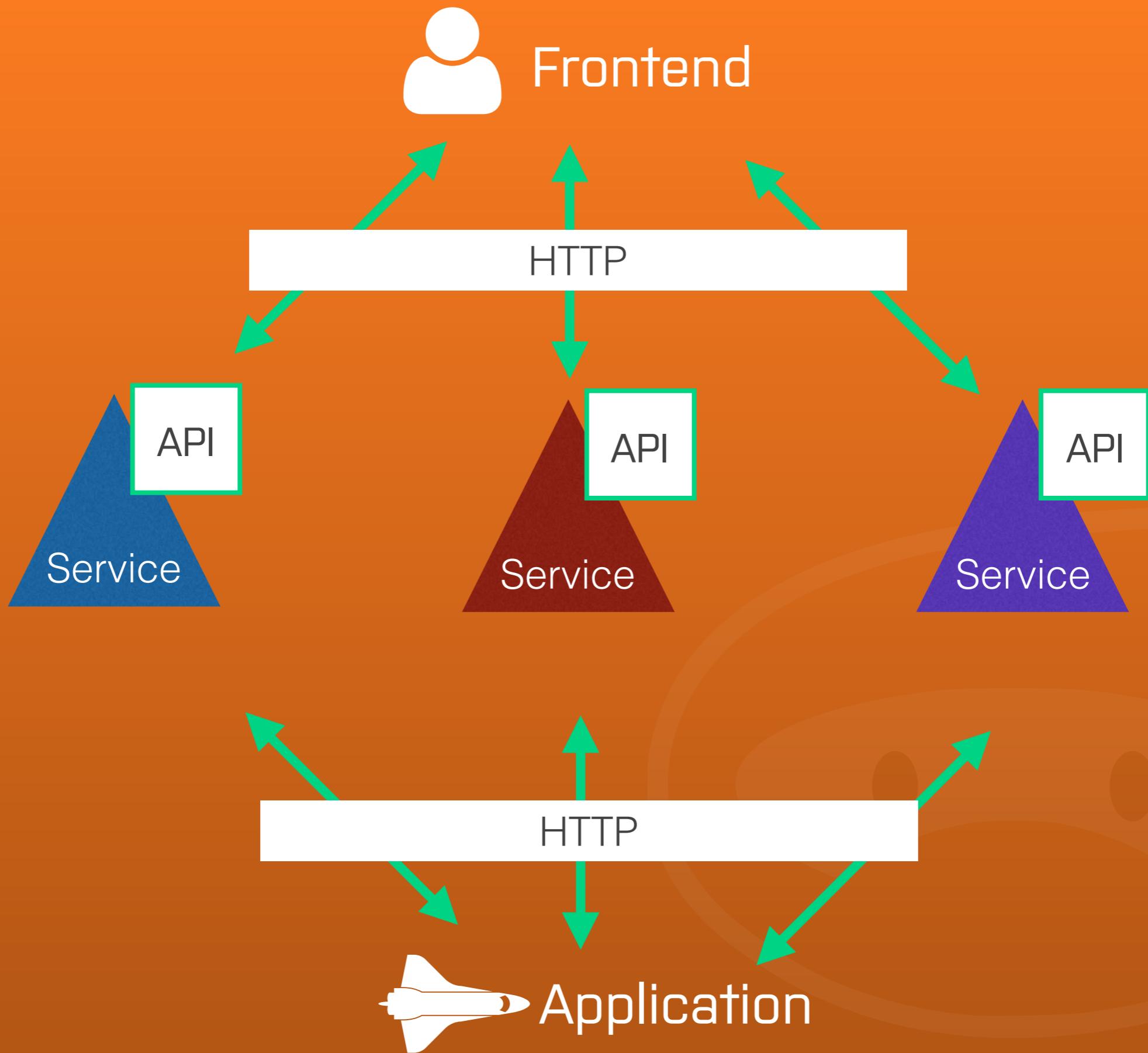






Kill the
monolith







Each service performs a single action

Services are independent

Easier to maintain

Easily scalable

Containerizable

**Micro
services are
language
agnostic**

1 micro
service

=

1 API

API frameworks



grape sinatra Rails API



django-rest flask eve



express hapijs fortunejs fortunejs



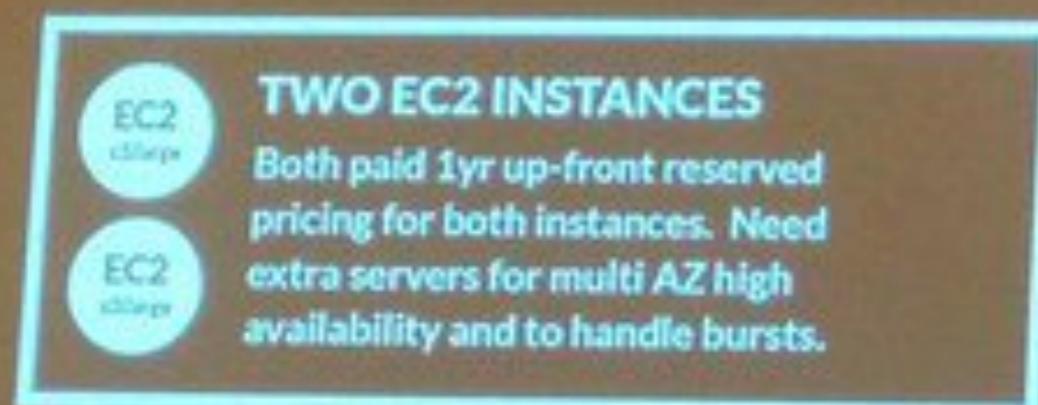
You don't
need servers



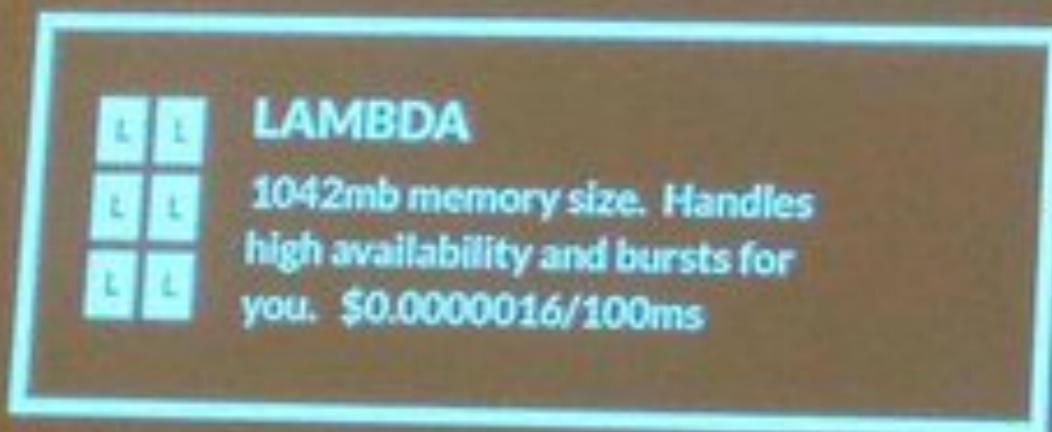
- 👍 Java, Python, or JS snippets
- 👍 scalable memory 128-1536MB
- 👍 can receive events from AWS services
- 👍 can call other Lambda functions
- 👍 don't need to code inline (.zip, S3)
- 👍 detailed logs and analytics
- 👎 needs AWS API gateway to be called from outside AWS

Why serverless AWS? It's cheaper...

Scenario: 16000 request/day @ 200ms avg = 3,200,000ms/day



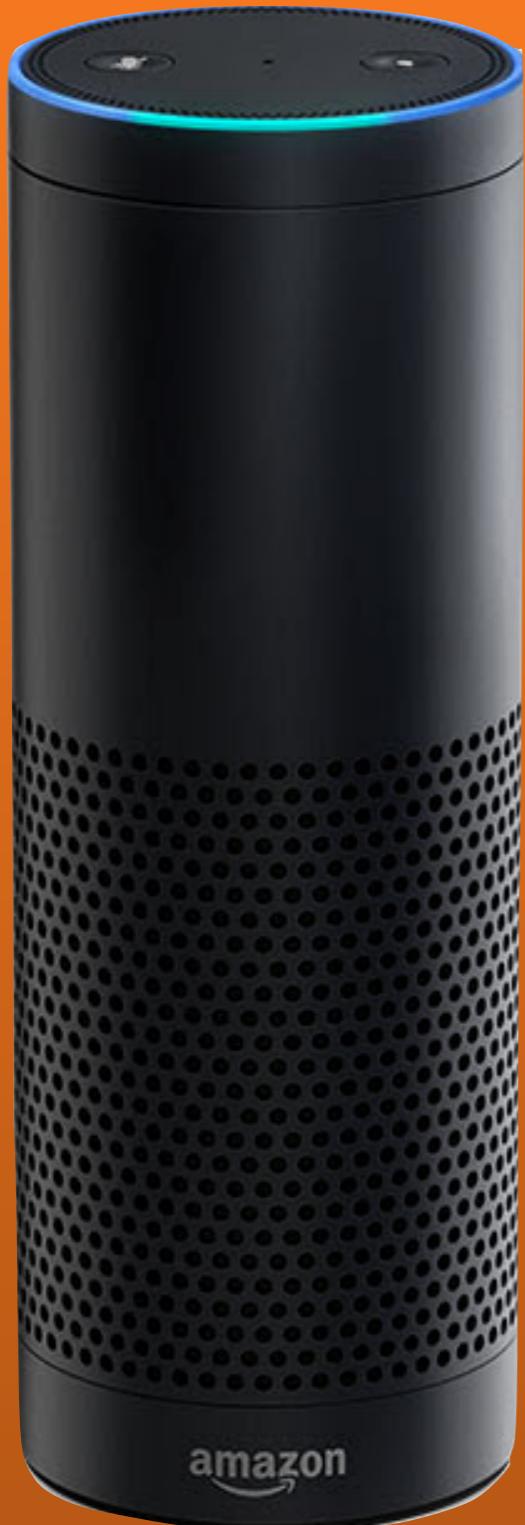
\$2.97/day

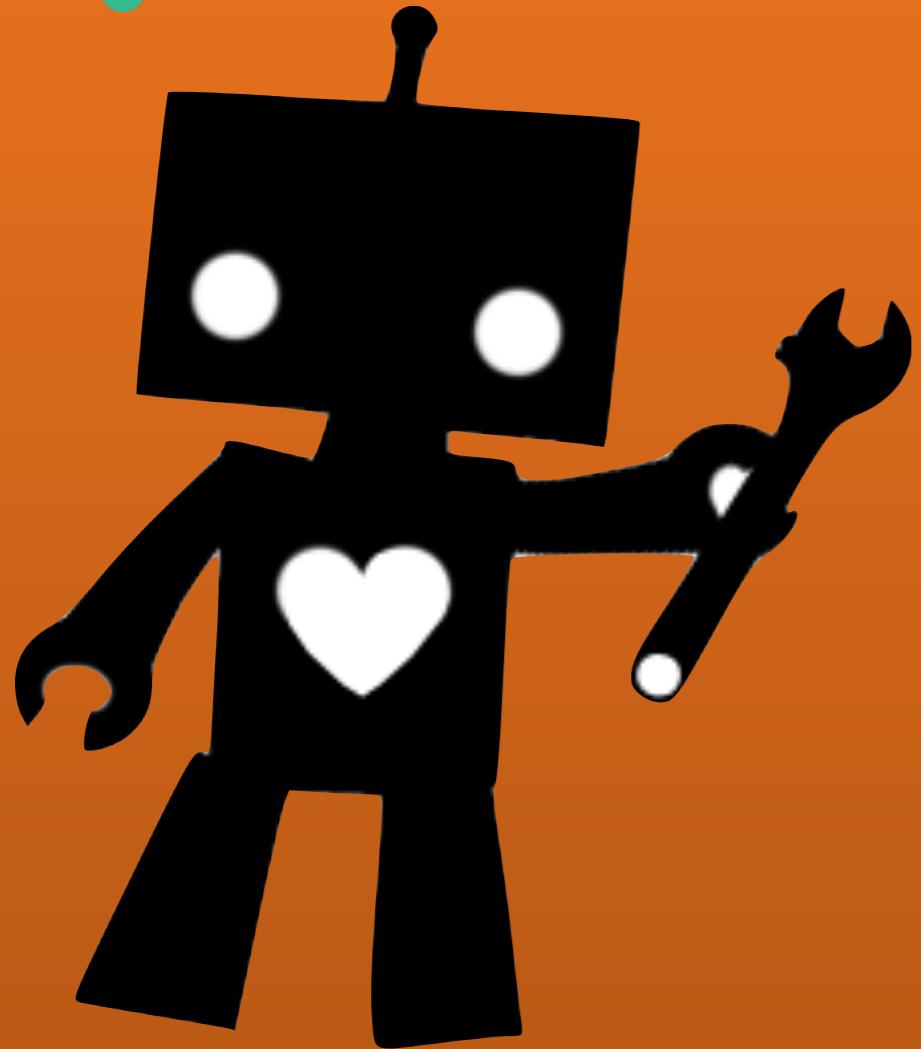


\$0.05/day

Let's hack!

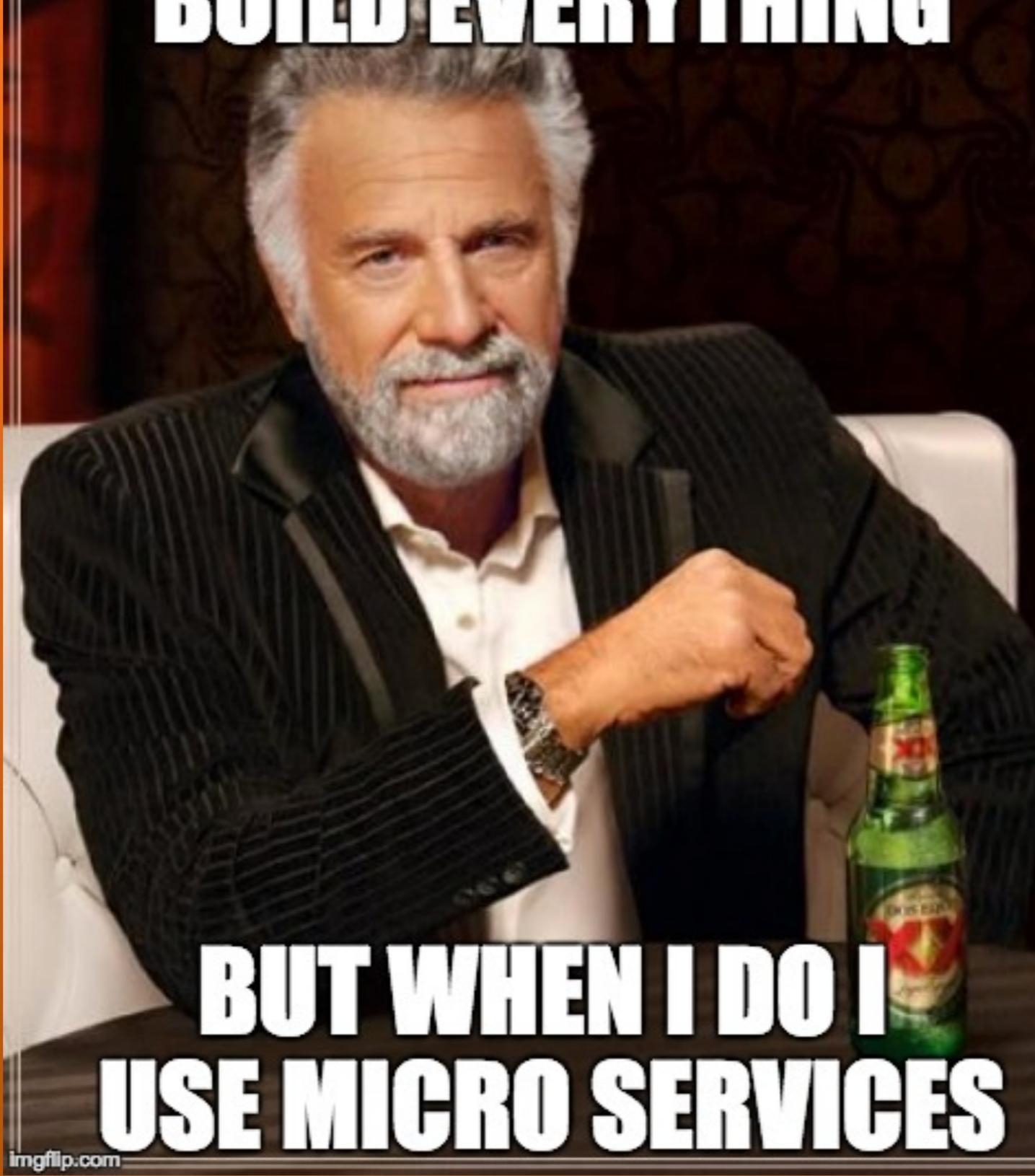
**serverless
micro-services
could be the next thing**





**what
would you
build?**

I DONT ALWAYS
BUILD EVERYTHING



BUT WHEN I DO I
USE MICRO SERVICES



Microservices



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