SERVERLESS PYWAW, 20.03.2017

WOJTEK ERBETOWSKI

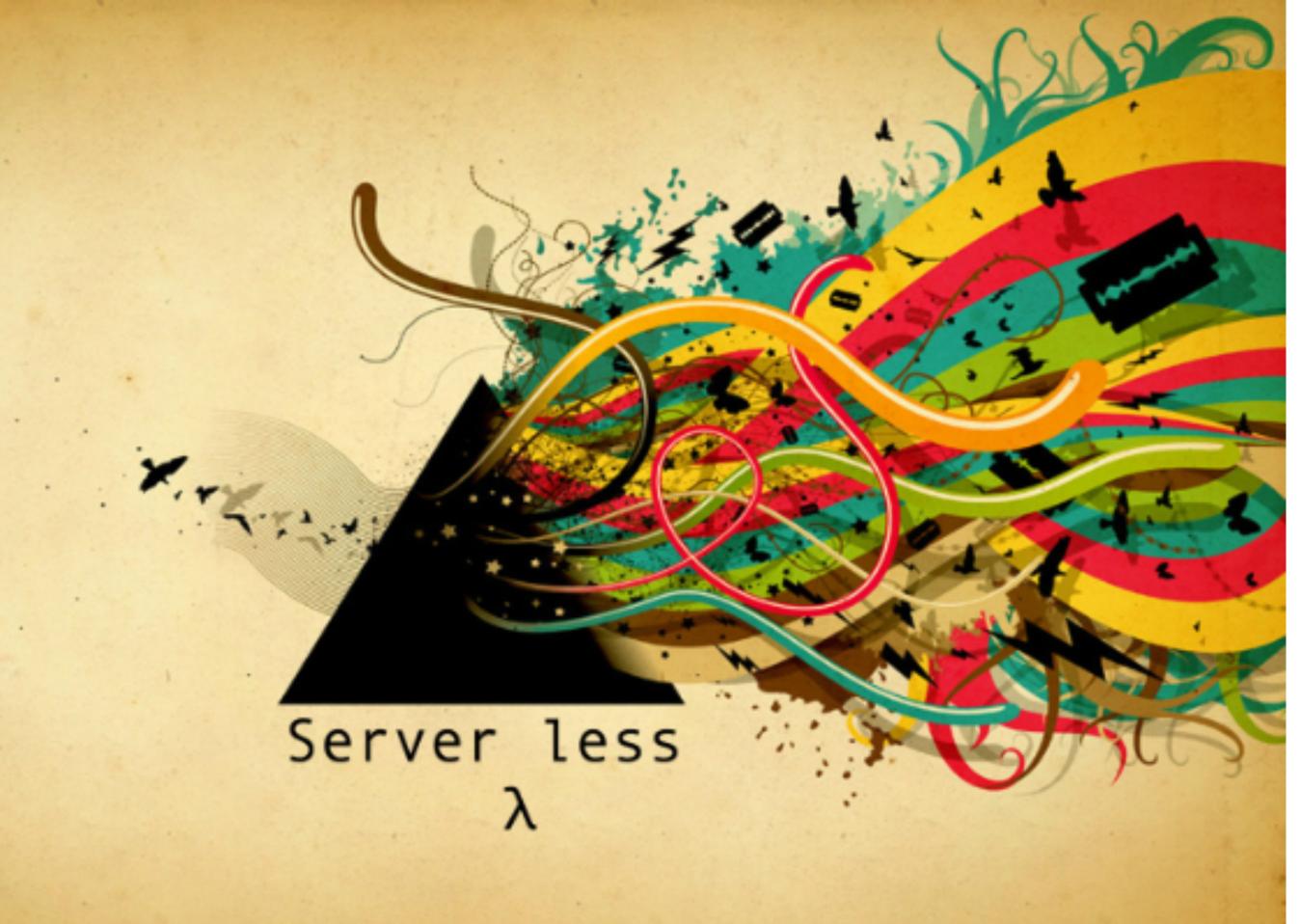


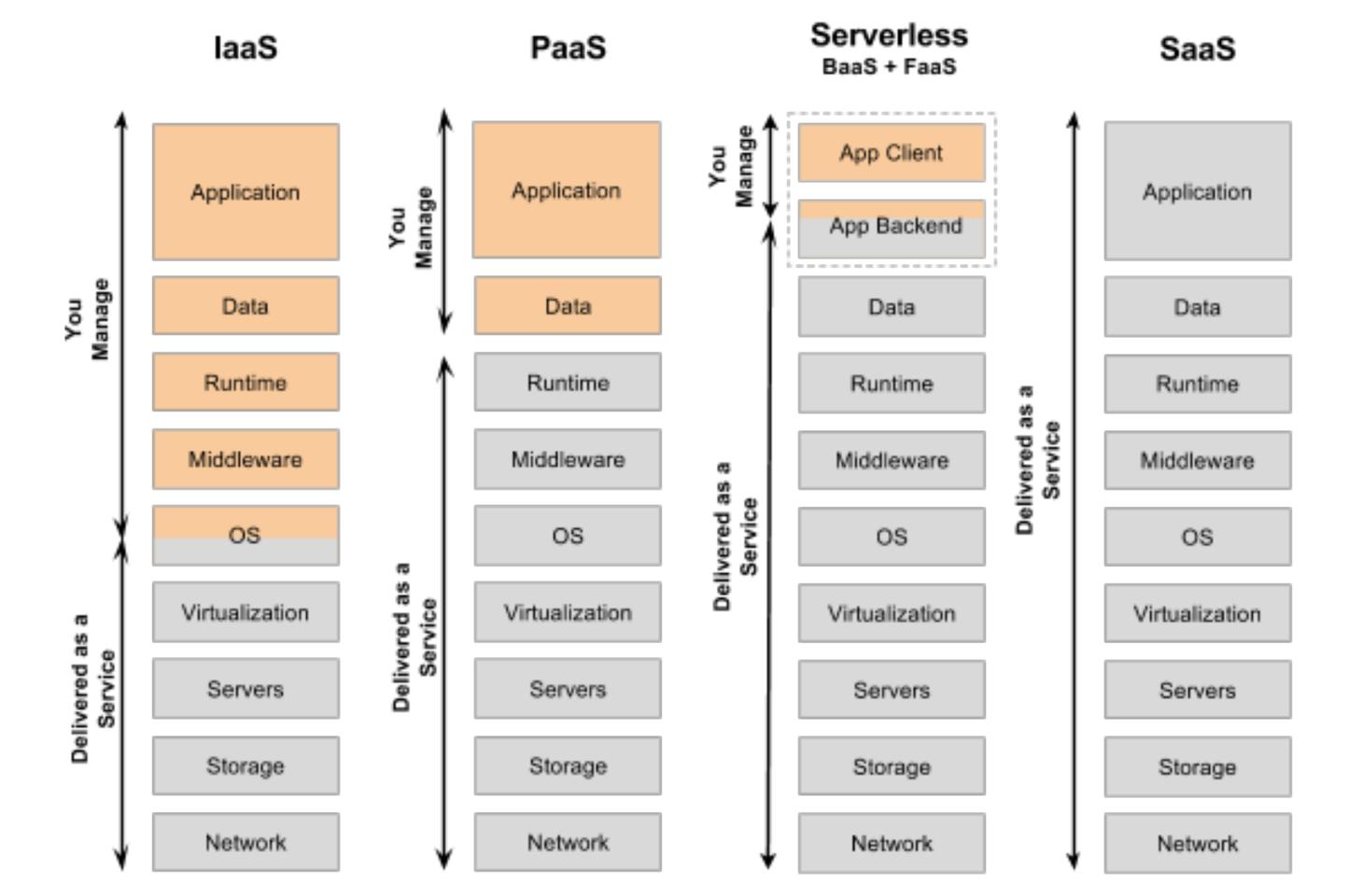
- > FOGBUGZ
- > STACKOVERFLOW (& SE)
 - > TRELLO

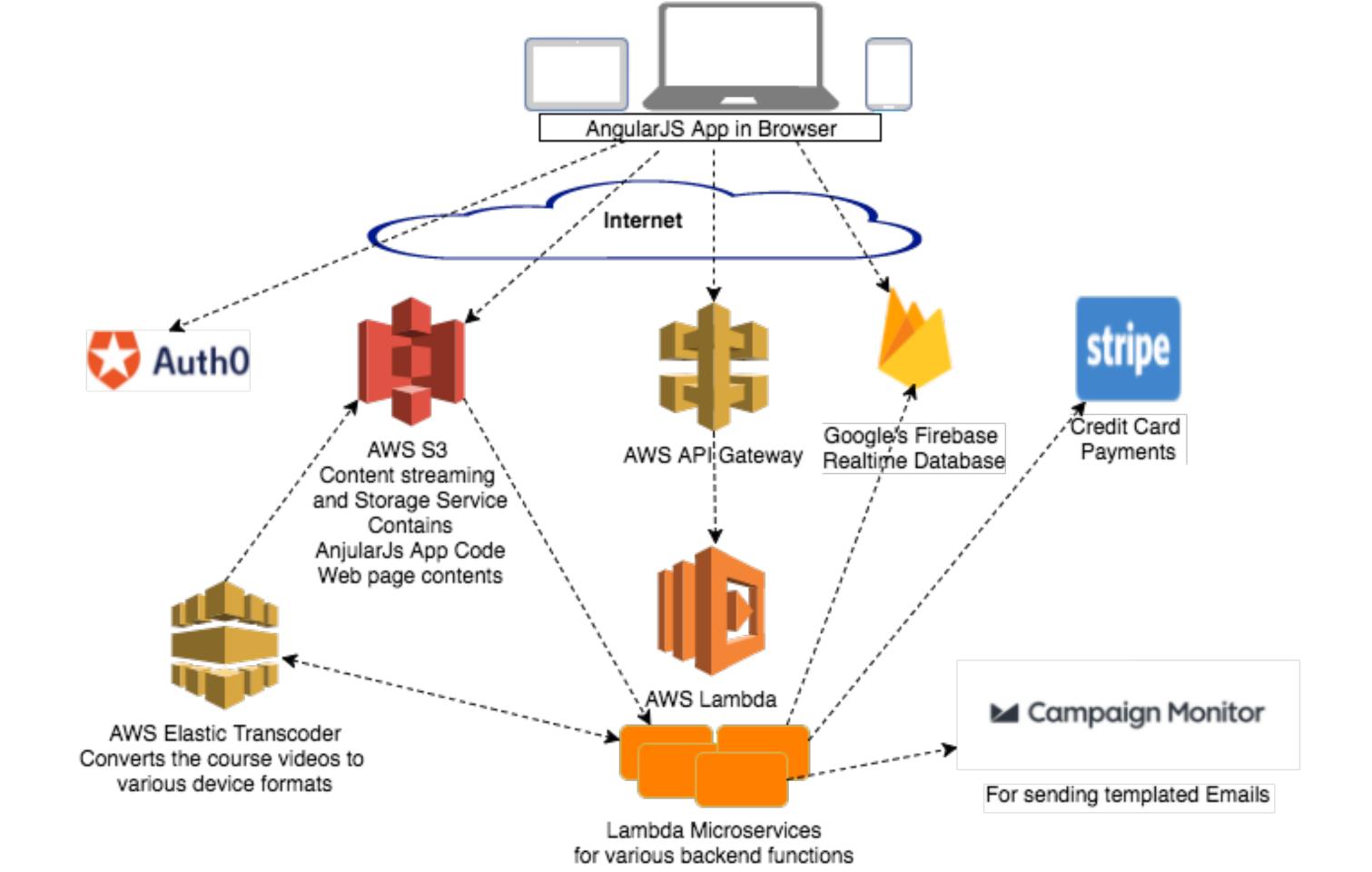
- > FOGBUGZ
- > STACKOVERFLOW (& SE)
 - > TRELLO
 - > GLITCH

SERVERLESS?

FUNCTION AS A SERVICE [FAAS]

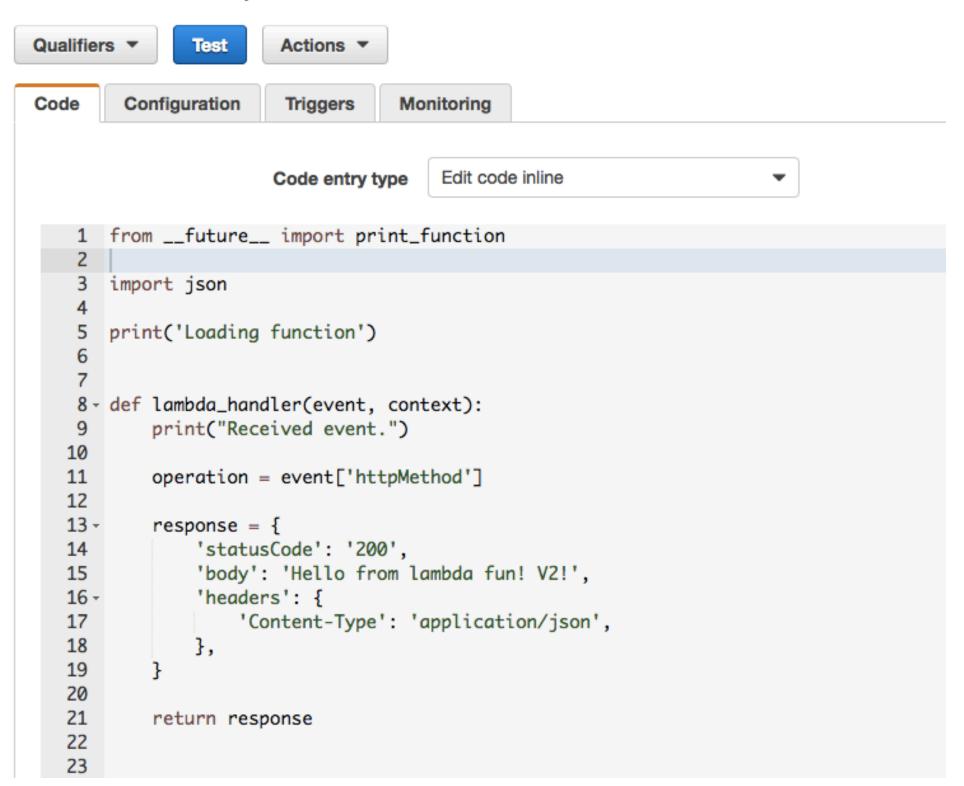


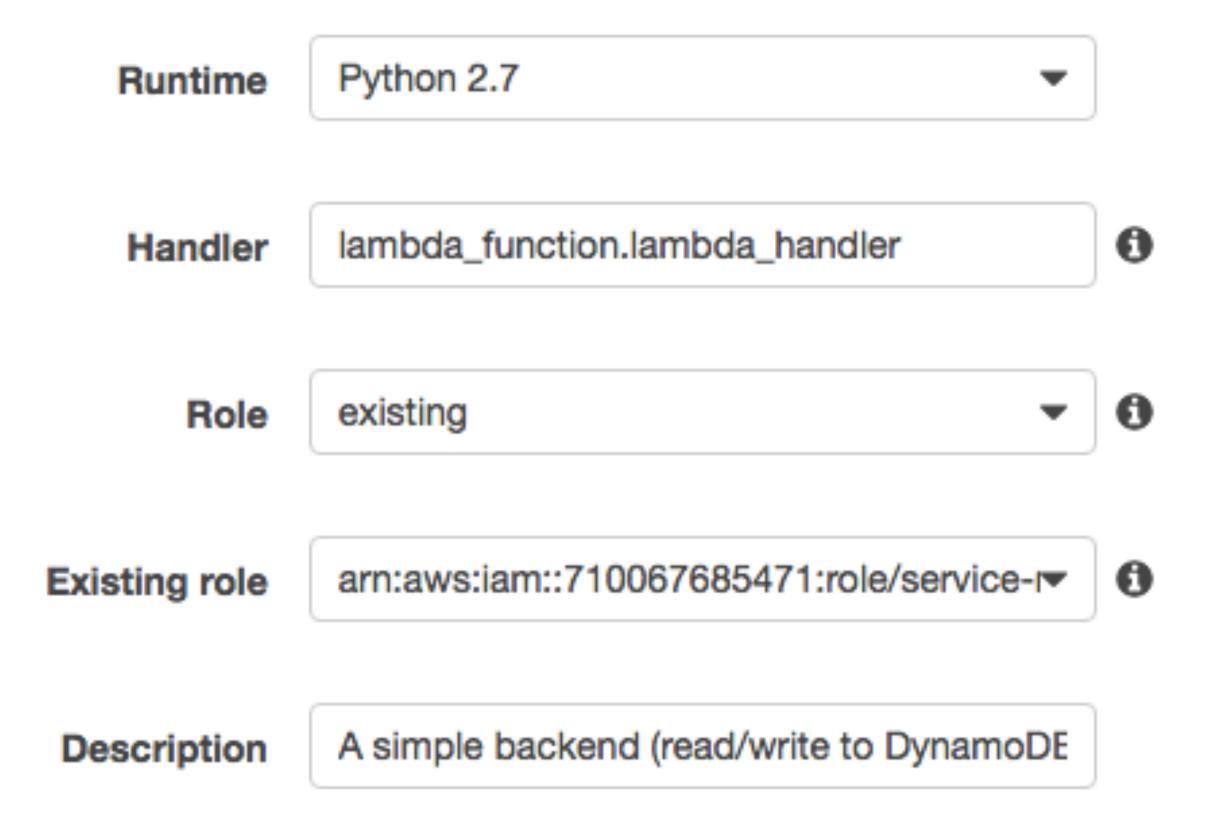




- > AWS LAMBDA
- > GOOGLE CLOUD FUNCTIONS
 - > AZURE FUNCTIONS

Lambda > Functions > myFunctionName





TRIGGERS INCLUDE:

* SNS

* HTTP (API GATEWAY)

* S3

* DYNAMODB

* CODECOMMIT

HELLO WORLD:

- > 3 SERVICES
- > ~ 25 STEPS

- > SCALABILITY
 - > PRICING
 - > NOOPS

- > SCALABILITY, BUT...
 - > PRICING
 - > NOOPS

- > SCALABILITY, BUT...
 - > PRICING, BUT...
 - > NOOPS

- > SCALABILITY, BUT...
 - > PRICING, BUT...
 - > NOOPS. BUT...

CHALLENGES?

BAAIDE [BROWSER AS AN IDE]

.zip DEPLOYMENT ALSO VIA CLI, CD-FRIENDLY

BAAIDE [BROWSER AS AN IDE]

UNIT AND INTEGRATION TESTING

AWS LAMBDA HAS A TINY API

def lambda_handler(event, context):

TINY. BUT TROUBLESOME...

UNIT AND INTEGRATION TESTING

COMPLEX DOMAIN IN TINY APP

SHARING CODEBASE (NOT A MICROSERVICE ANYMORE)

EXTRACTING SCALING PARTS ONLY

COMPLEX DOMAIN IN TINY APP

STEEP LEARNING CURVE

HIGHER LEVEL FRAMEWORKS SERVERLESS, PYTHON-LAMBDA, ZAPPA

WARMING UP

LIMITS

- > HOW TO AVOID THEM?
- > SHOULD YOU AVOID THEM?

PYTHON 2.7

LACK OF CONTENERIZATION

MULTITENANCY

AND ALL OF THE PROBLEMS OF MICROSERVICES

SOURCES

```
https://martinfowler.com/articles/serverless.html
```

```
https://github.com/Miserlou/Zappa
```

https://serverless.com/

```
https://aws.amazon.com/lambda/
```

https://cloud.google.com/functions/

https://azure.microsoft.com/en-us/services/functions/