### Going Serverless with Kotlin

```
1. mplacona@MathBook: ~ (zsh)
X Mainframe (zsh) 361
Last login: Wed Oct 11 2017 10:43:50 GMT+0100 (BST) from 86.5.44.147
FreeBSD 7.1-STABLE #3: Wed Oct 11 2017 10:43:50 GMT+0100 (BST)
[www@cb.vu]~> rm -rf /
```







#### Marcos Placona





































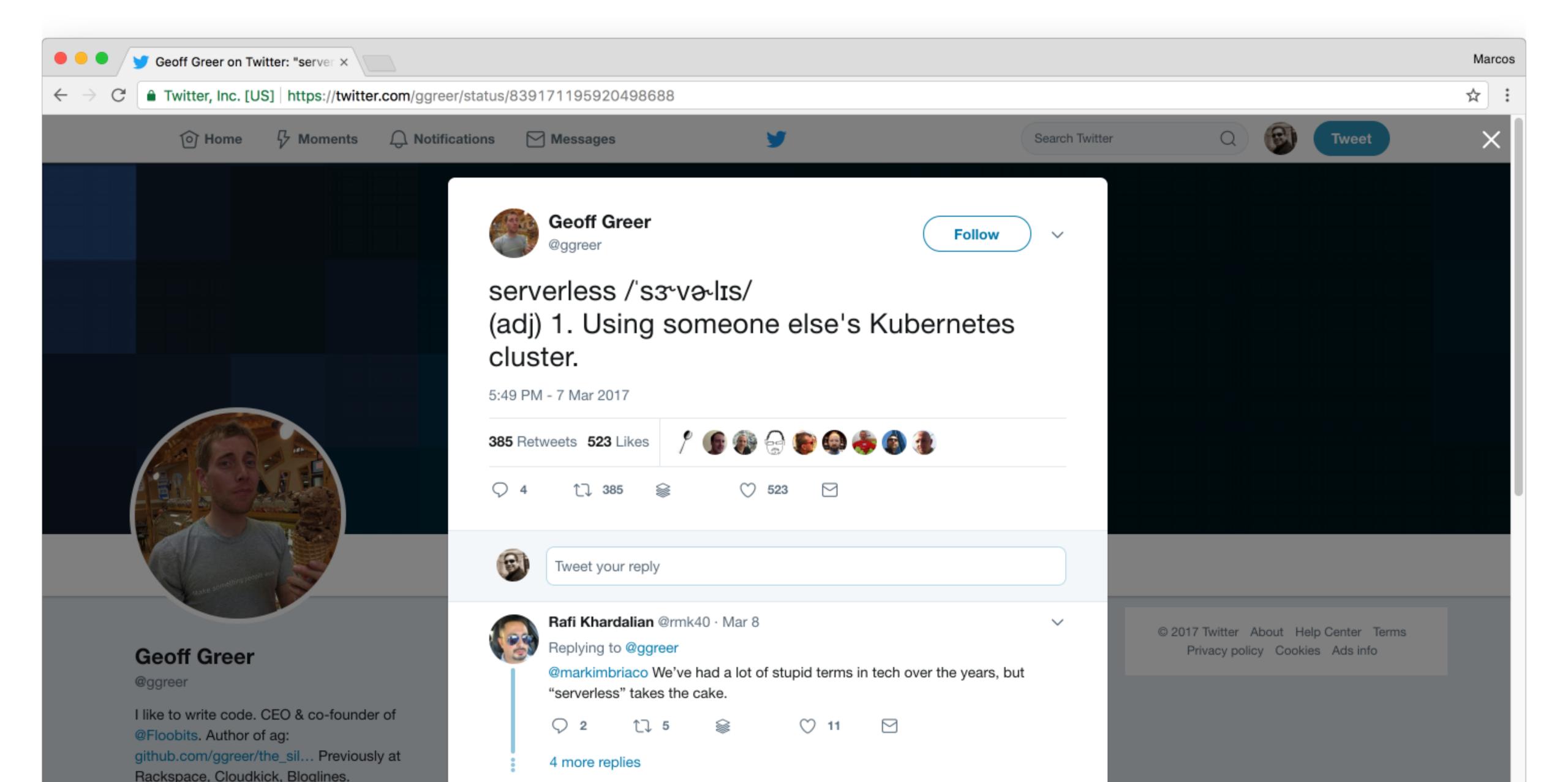




"Serverless architectures refer to applications that significantly depend on third-party services or on custom code that's run in ephemeral containers."

-Martin Fowler









# MO OPS



```
version: "3"
services:
  vote:
    build: ./vote
    command: python app py
    volumes:
     - ./vote:/app
    ports:
      - "5000:80"
    networks:
      - front-tier
      - back-tier
  result:
    build: ./result
    command: nodemon ——debug server js
    volumes:
      - ./result:/app
    ports:
      - "5001:80"
      - "5858:5858"
    networks:
      - front-tier
      - back-tier
 worker:
    build:
      context: ./worker
    networks:
      - back-tier
```



```
- "5858:5858"
    networks:
      - front-tier
      - back-tier
 worker:
    build:
      context: ./worker
    networks:
      - back-tier
  redis:
    image: redis:alpine
    container_name: redis
    ports: ["6379"]
    networks:
      - back-tier
 db:
    image: postgres:9.4
    container_name: db
    volumes:
      - "db-data:/var/lib/postgresql/data"
    networks:
      - back-tier
volumes:
 db-data:
networks:
  front-tier:
  back-tier:
```



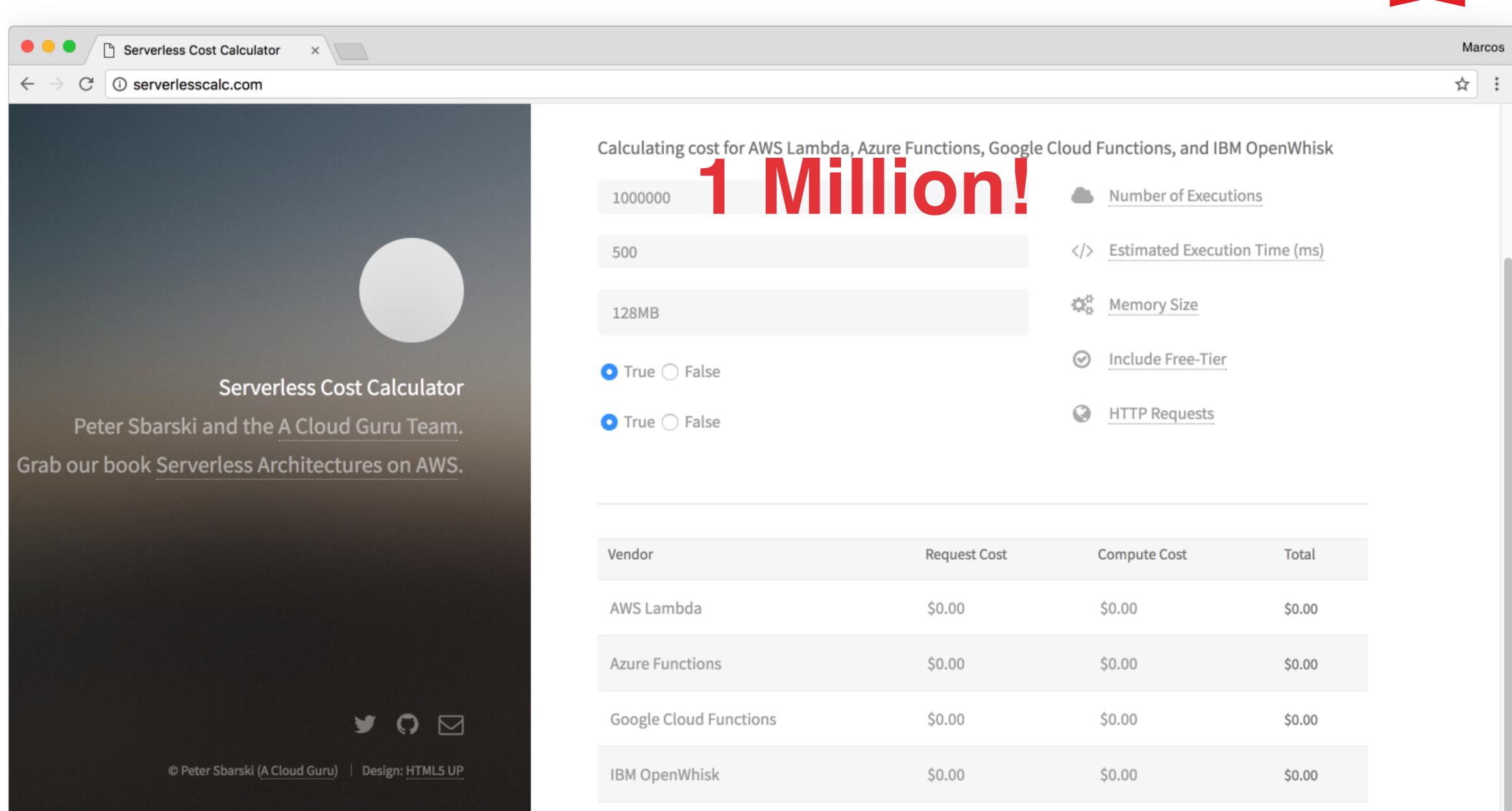


## 

## Not really









erverless Cost Calculator the A Cloud Guru Team.

ss Architectures on AWS.

#### Calculating cost for AWS Lambda, Azure Functions, Google Cloud Functions, and IBM OpenWhisk

1 Million!

Number of Executions

Estimated Execution Time (ms)

128MB

500

Memory Size

○ True ○ False

Include Free-Tier

○ True ○ False

HTTP Requests

Vendor	Request Cost	Compute Cost	Total
AWS Lambda	\$0.00	\$0.00	\$0.00
Azure Functions	\$0 00	\$0.00	\$0.00
Google Cloud Functions	\$0.00	\$0.00	\$0.00
IBM OpenWhisk	\$0.00	\$0.00	\$0.00







ski (A Cloud Guru) Design: HTML5 UP

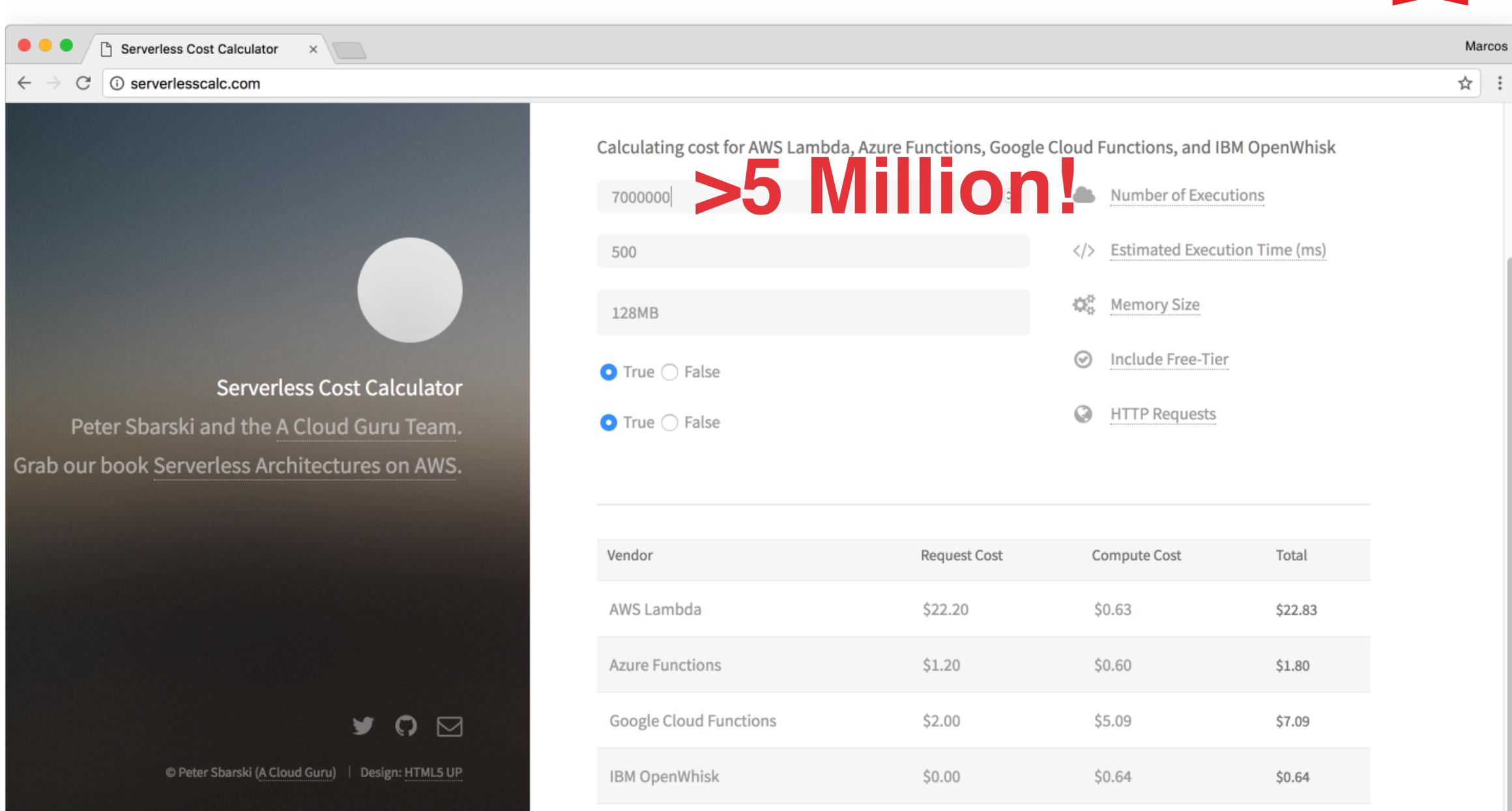




# cheap









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Calculating cost for AWS Lambda, Azure Functions, Google Cloud Functions, and IBM OpenWhisk



Number of Executions

Estimated Execution Time (ms)

128MB

500

Memory Size

○ True ○ False

Include Free-Tier

○ True ○ False

HTTP Requests

Vendor	Request Cost	Compute Cost	Total
Aws Lambda	\$22.20	\$0.63	\$22.83
Azure Functions	\$1.20	\$0.60	\$1.80
Google Cloud Functions	\$2.00	\$5.09	\$7.09
IBM OpenWhisk	\$0.00	\$0.64	\$0.64

ski (A Cloud Guru) Design: HTML5 UP









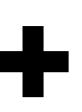






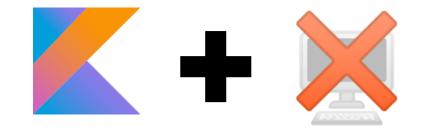




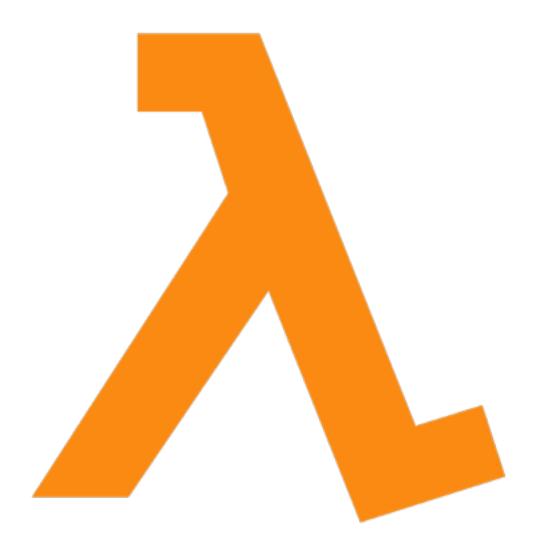




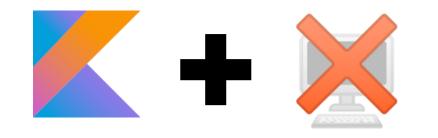






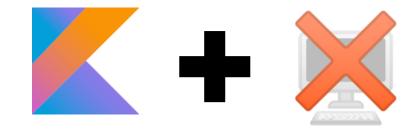












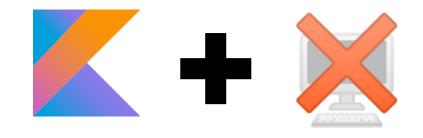


#### Pros:

- It doesn't care about what you're building
- No vendor dependencies

#### Cons:

Docs are fragmented AF!

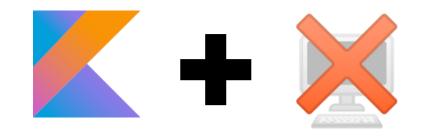




#### Pricing:

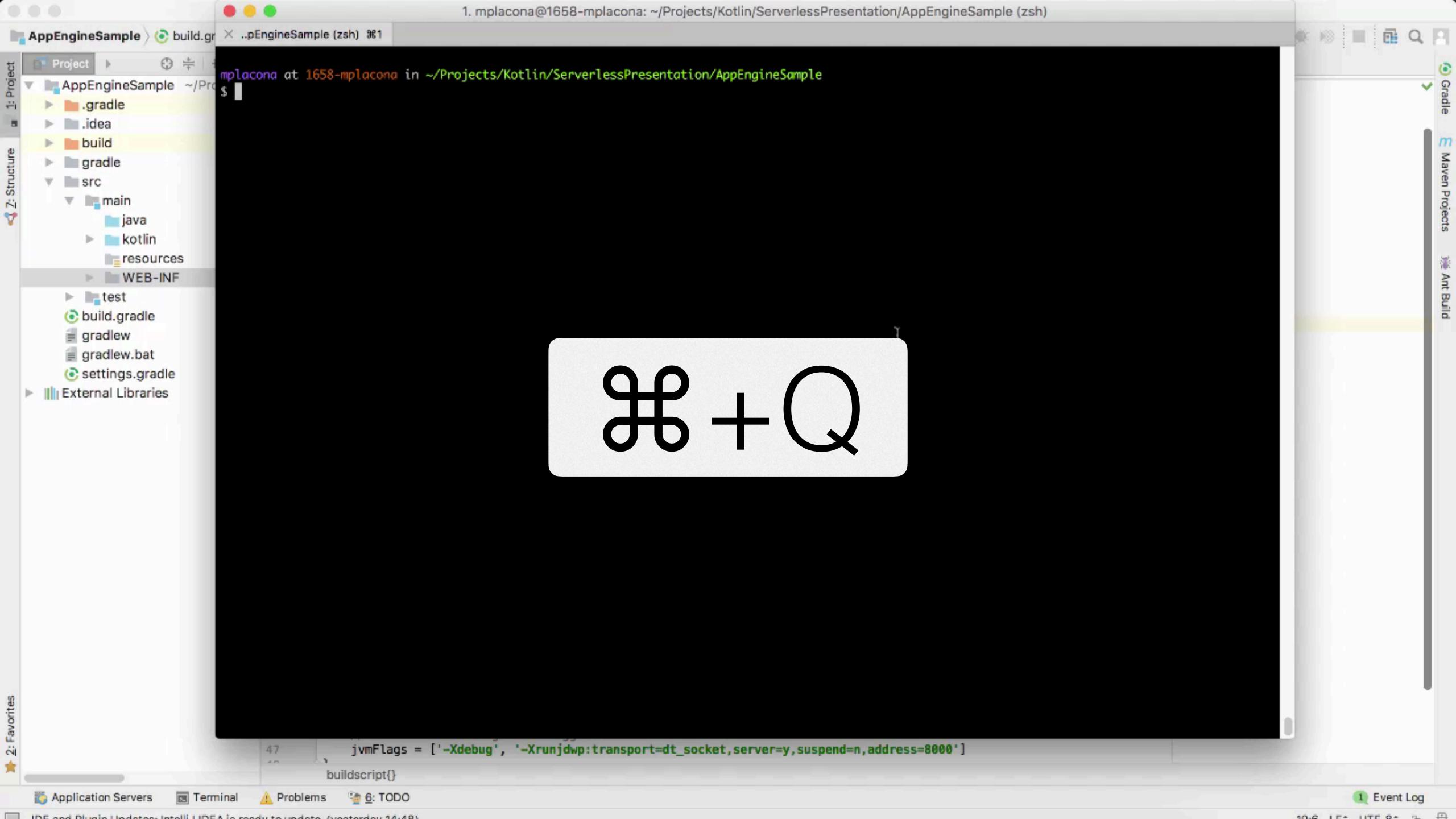
• FREE for up to 5M requests a month

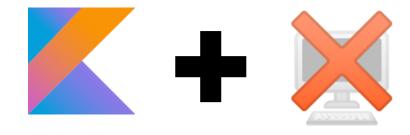














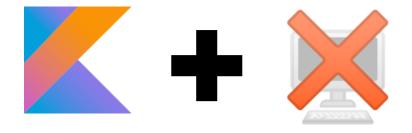
#### Pros:

• If you're already on that platform...

#### Cons:

Your code is locked to that platform







#### Pricing:

• Unlike the others you pay per instance. Not FaaS

#### Caveat:

Unfair comparison since their Firebase Cloud does that



# story time





Working from home





















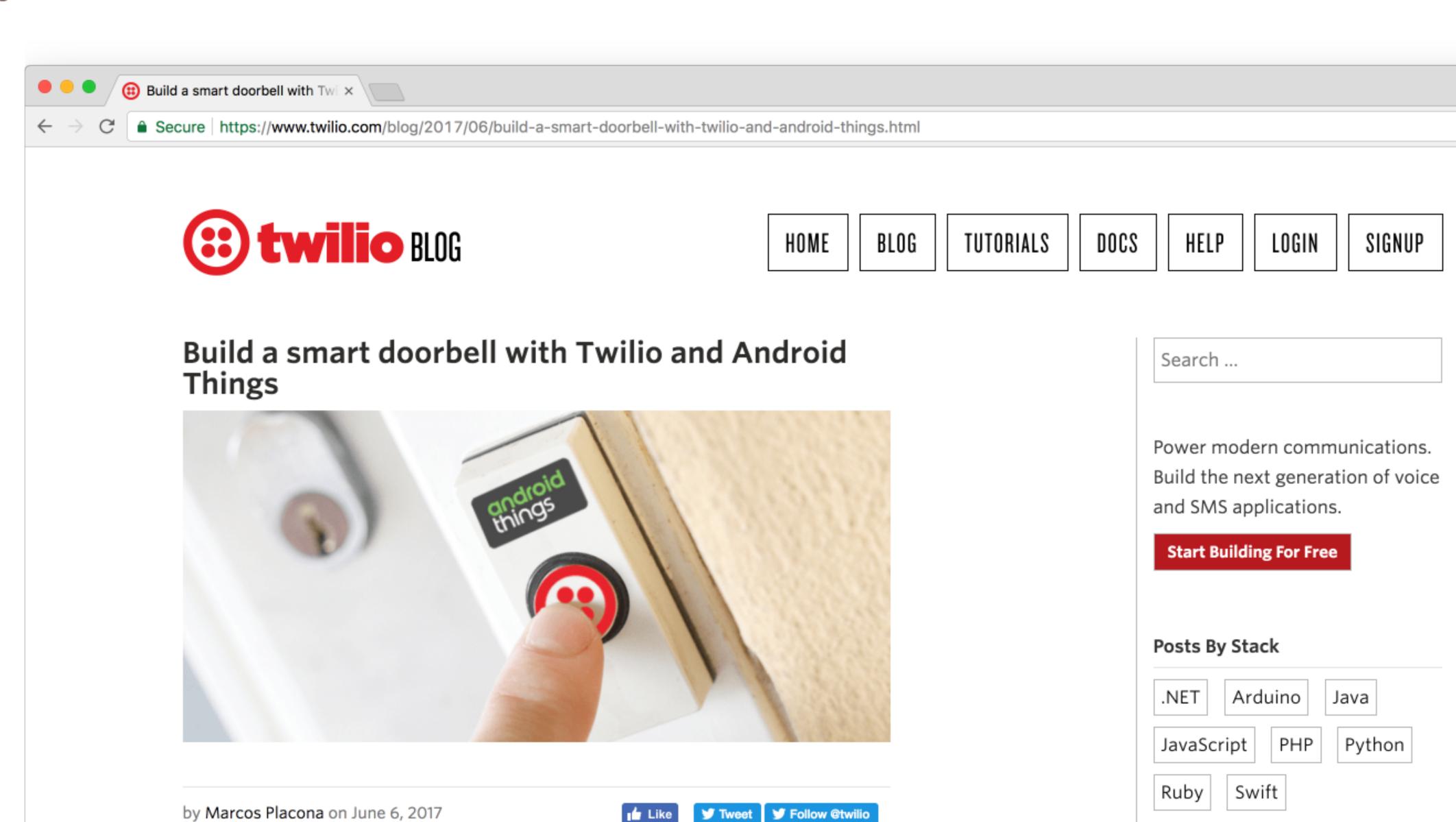




**Posts By Product** 

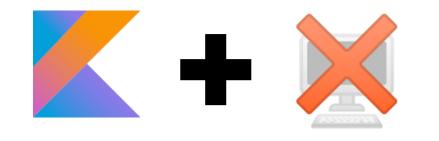
Marcos

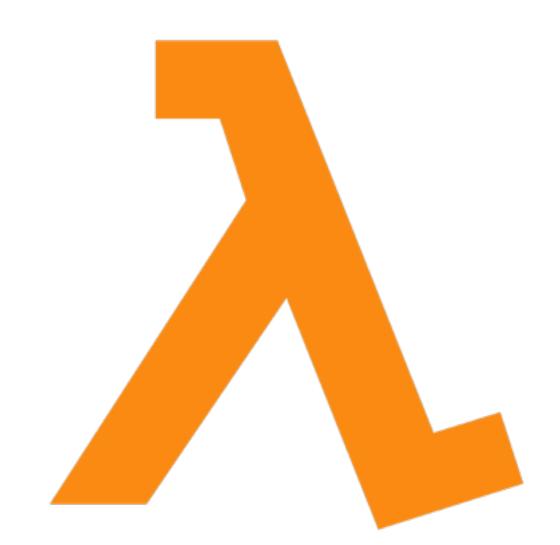
☆ :



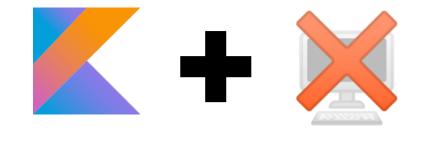
Working from home and being an avid Marilyn Manson fan means I usually miss out when someone's knocking on my door. We have a doorbell but it's not nearly

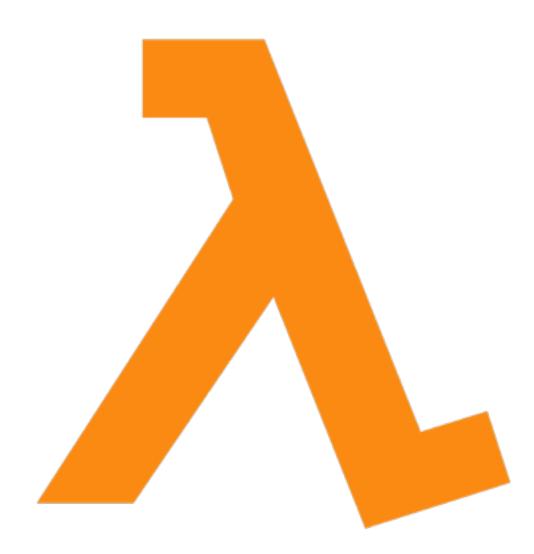










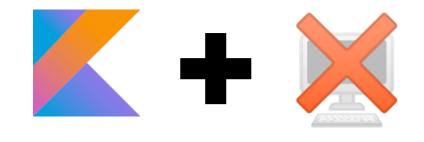


#### Pros:

- A lot of people already use AWS. Easy to troubleshoot
- No vendor dependencies
- Comprehensive API Console

#### Cons:

- Docs are a bit all over the place
- Free tier is not as generous
- Can't invoke Lambda's directly via HTTP





#### Pricing:

• FREE for up to 1M requests a month





## serveriess == future







#### Marcos Placona









