# EOH *impression*™

## eSignatures – Serverless Architecture on AWS

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*Andy Papastefanou*

July 2018

***Technology*** *makes it possible...*
***People*** *make it happen*

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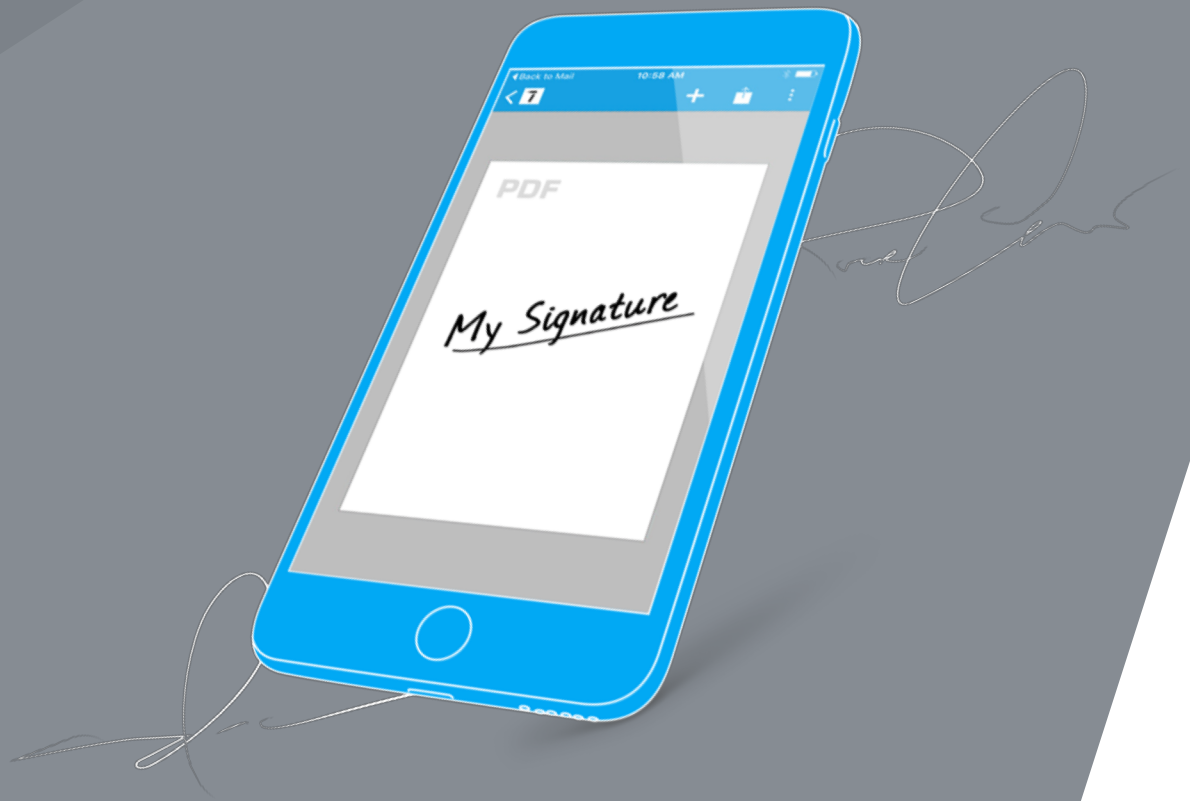


Electronic Consent

Electronic Signatures

Transaction Approval

Secure Document Delivery

Developer Toolkit & Connectors

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- Proudly South African, started in 2011.
- Gartner Aspiring Innovator 2016.
- Acquired by EOH in 2017.
- 20+ Enterprise customers. 14,000 signing stations. 1m+ monthly transactions.

ABSA

pps
FOR PROFESSIONALS
SINCE 1941

sassa
SOUTH AFRICAN SOCIAL SECURITY AGENCY

ASSUPOL

WOOLWORTHS
FINANCIAL SERVICES

NETCARE
You're in safe hands

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# SERVERLESS COMPONENTS DEPLOYED

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## Platform

Amazon API Gateway

AWS Lambda

Amazon SQS

## Messaging

Amazon SES

Amazon SNS

## Storage

Amazon S3

Amazon DynamoDB

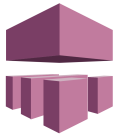
## Analytics

Amazon Quicksight

Amazon RedShift

## Mobile Apps

AWS Mobile SDK


AWS Device Farm

Amazon Cognito

## Supporting Functions

Amazon CloudWatch

Amazon VPC

Amazon Route53

AWS IAM

AWS CloudHSM

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# WHERE SHOULD YOU START?

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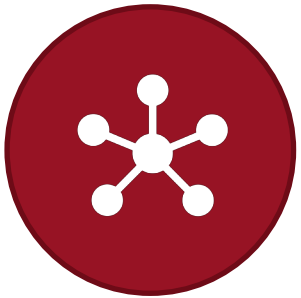
# **WHY** WE CHOSE AWS (AND SERVERLESS)

**Developers** focus on building functionality

Multiple programming **languages** co-exist

Platform **stability**



**Scalability & Availability**

# **WHY** WE CHOSE AWS (AND SERVERLESS)

Architectural & release **agility**

Safe & gradual **deployments**

Deep **visibility** into code execution & performance

**AWS Free Tier**

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# VITAL STATS

## FIRST 6 MONTHS AFTER LAUNCH

- Mobile App Downloads

  ~ 60,000

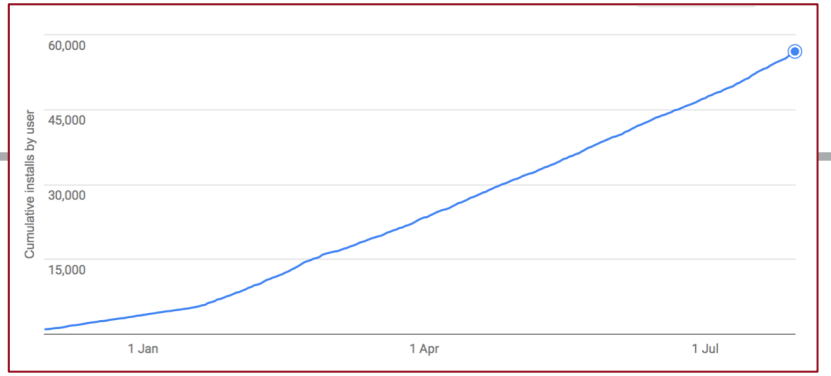
- Lambda Invocations

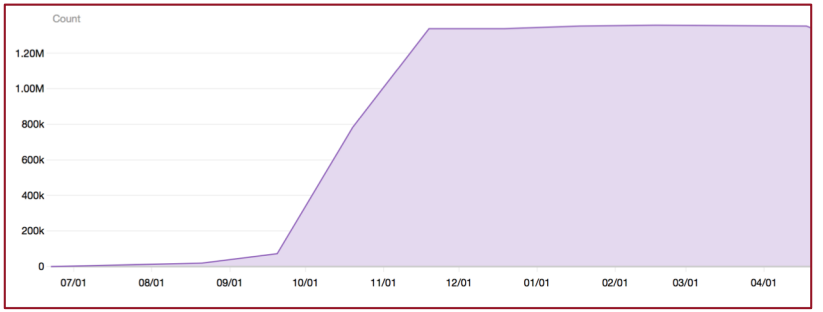
  ~ 1,2 million monthly

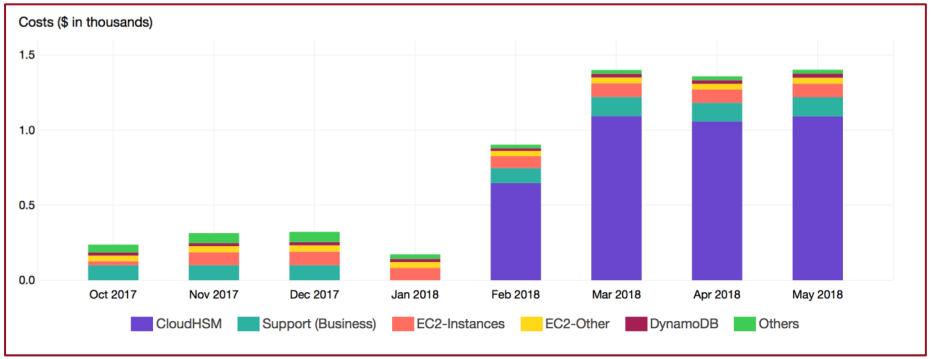
- AWS Costs

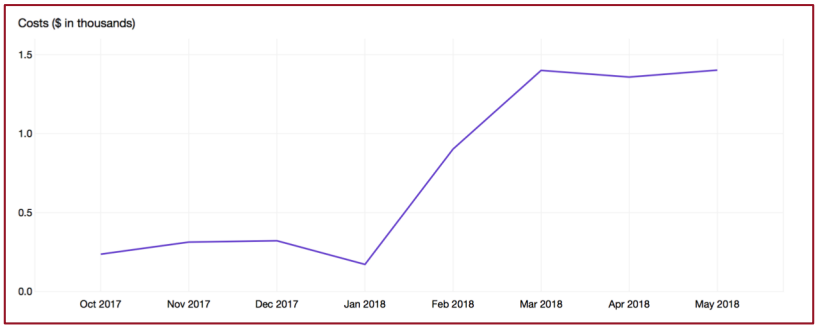
  $173 to $1,400 monthly (R2,400 to R20k)

  Stable costs despite the linear growth



# JOURNEY TO THE AWS MARKETPLACE

## Commodity

- Desktop Apps
- Desktop App Plugins
- Cloud App Connectors
- awsmarketplace
- awsmarketplace

## Platform

- Impression Cloud
  - Forensic Analysis Tools
  - Biometric Analysis
  - Certificate Services
  - Signature APIs
  - Signature Audit & Workflow
- Impression SDK
  - Web Signing Platform
  - Mobile App Platform

## Factors

- Fingerprint
- Handwritten Signature
- USSD with Sim Swap
- SMS OTP / KBA
- Advanced eSignature
- Click-to-Sign
- Directory AuthN
- GPS & Location
- Device Identifiers

## Devices

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