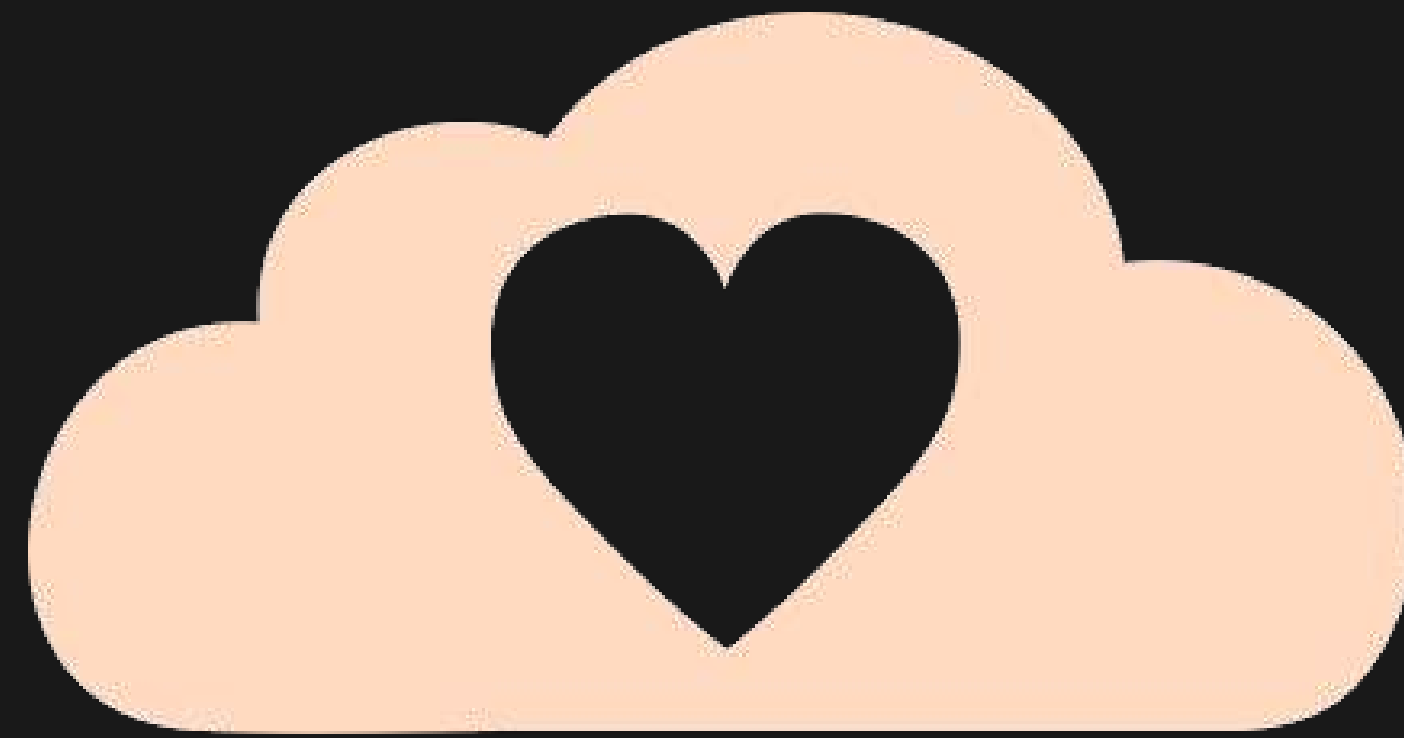


Move fast, build things

Julien Simon, Principal Technical Evangelist
Amazon Web Services

@julsimon



**Why are people so passionate
about the Cloud?**

Freedom

to dream,

to experiment,

to mine data,

to deploy,

to scale

Freedom to dream

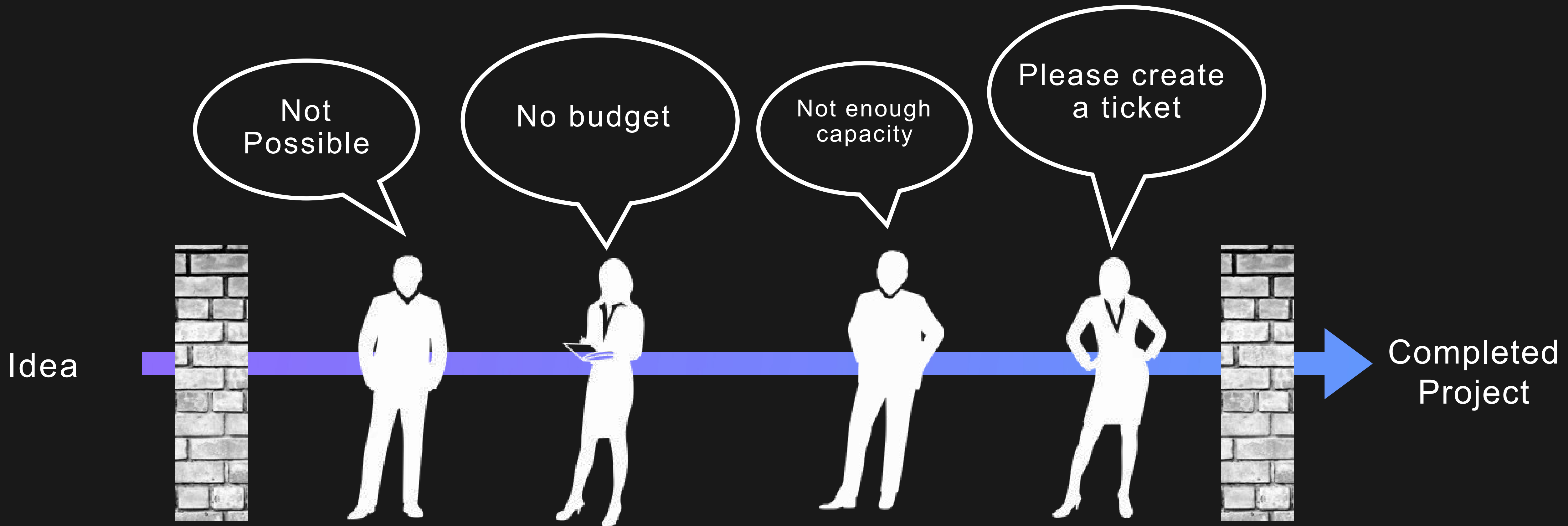


On AWS from day 1



Freedom to experiment

Tired of this?



Key Components Of Agility



Vast infrastructure
technology platform

+

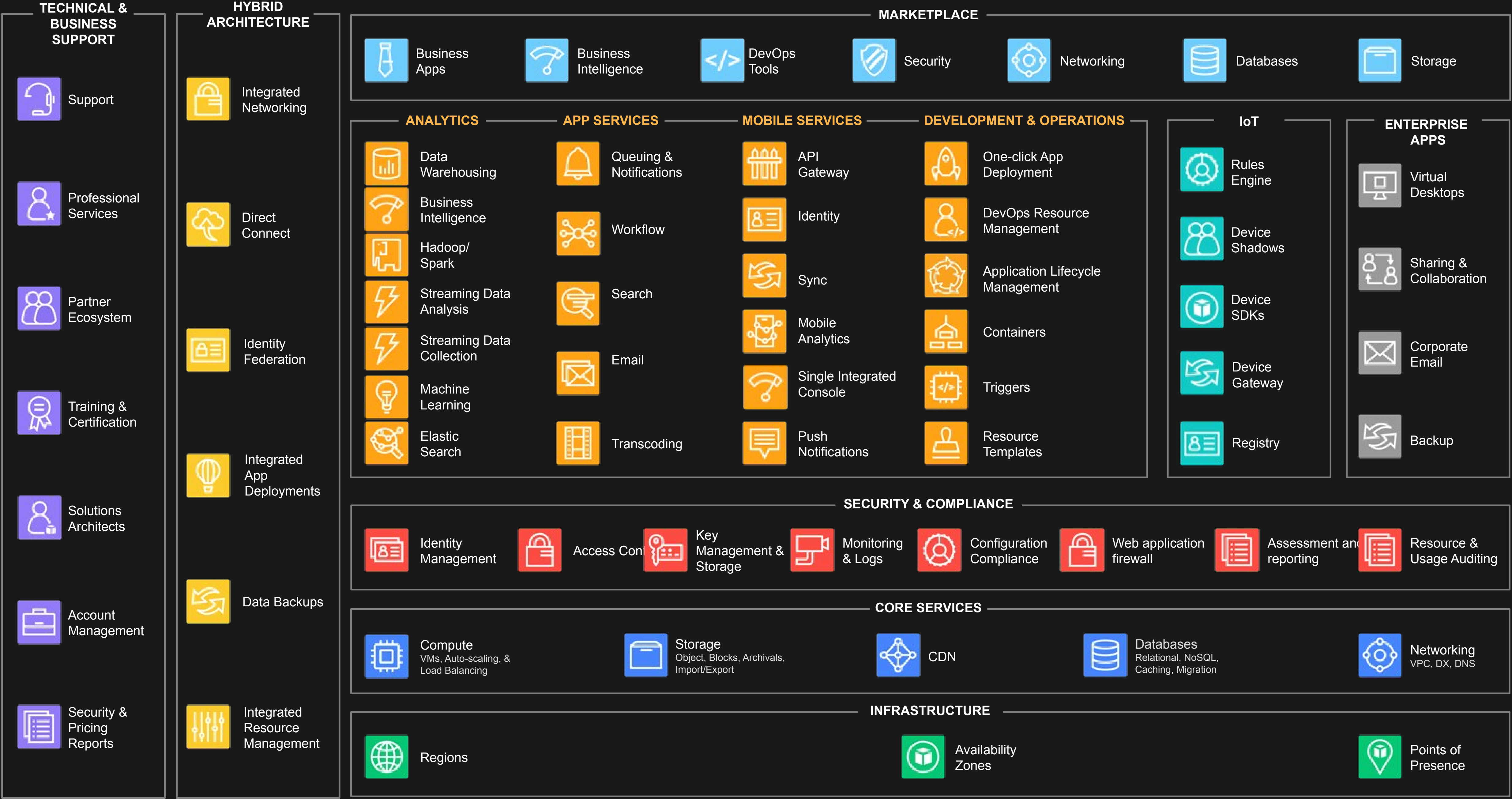


Quick
provisioning

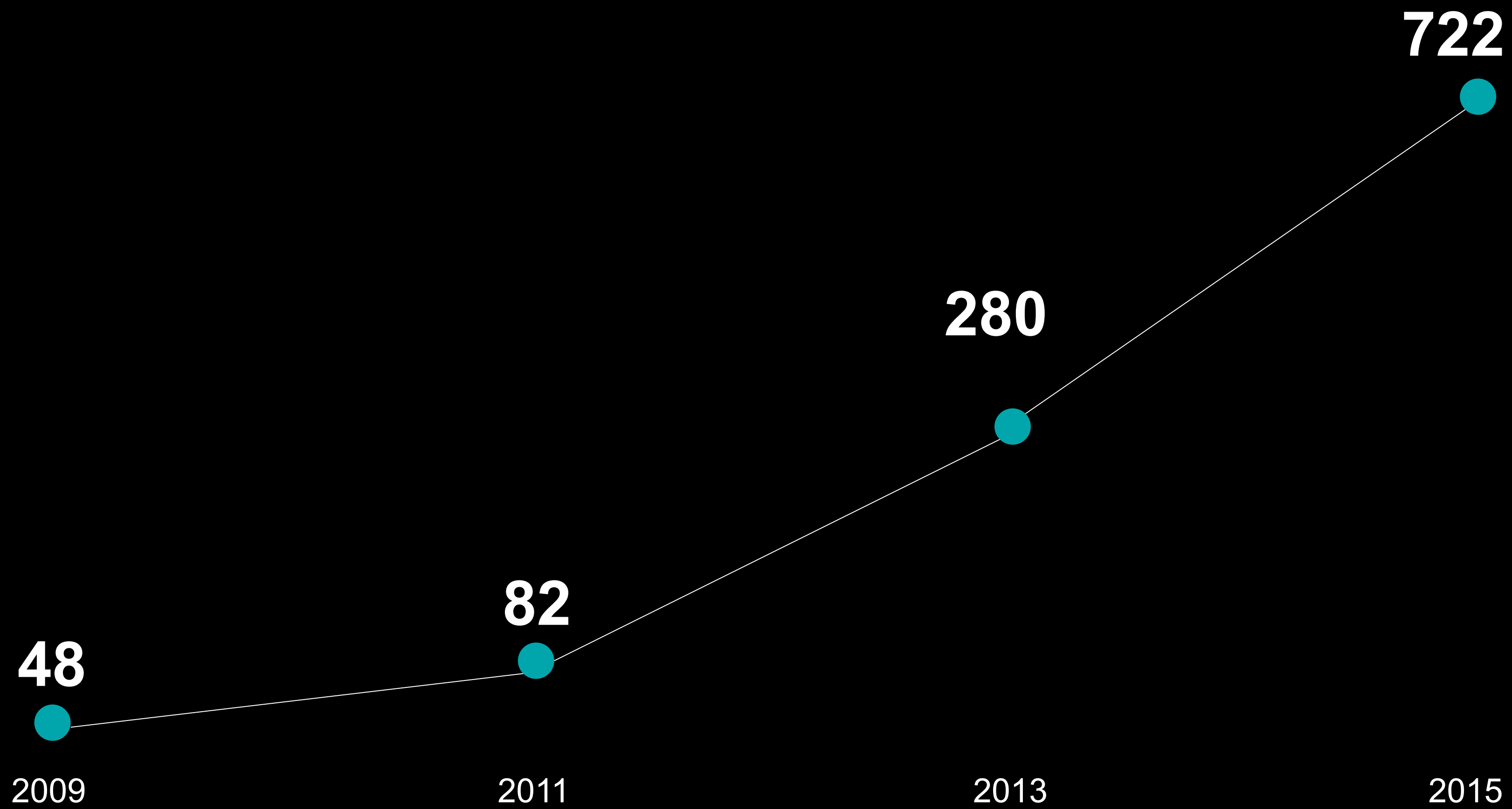
=



True
Agility



New AWS features



* As of 1 Mar 2016

Self-service

Everything is a click or an API call away

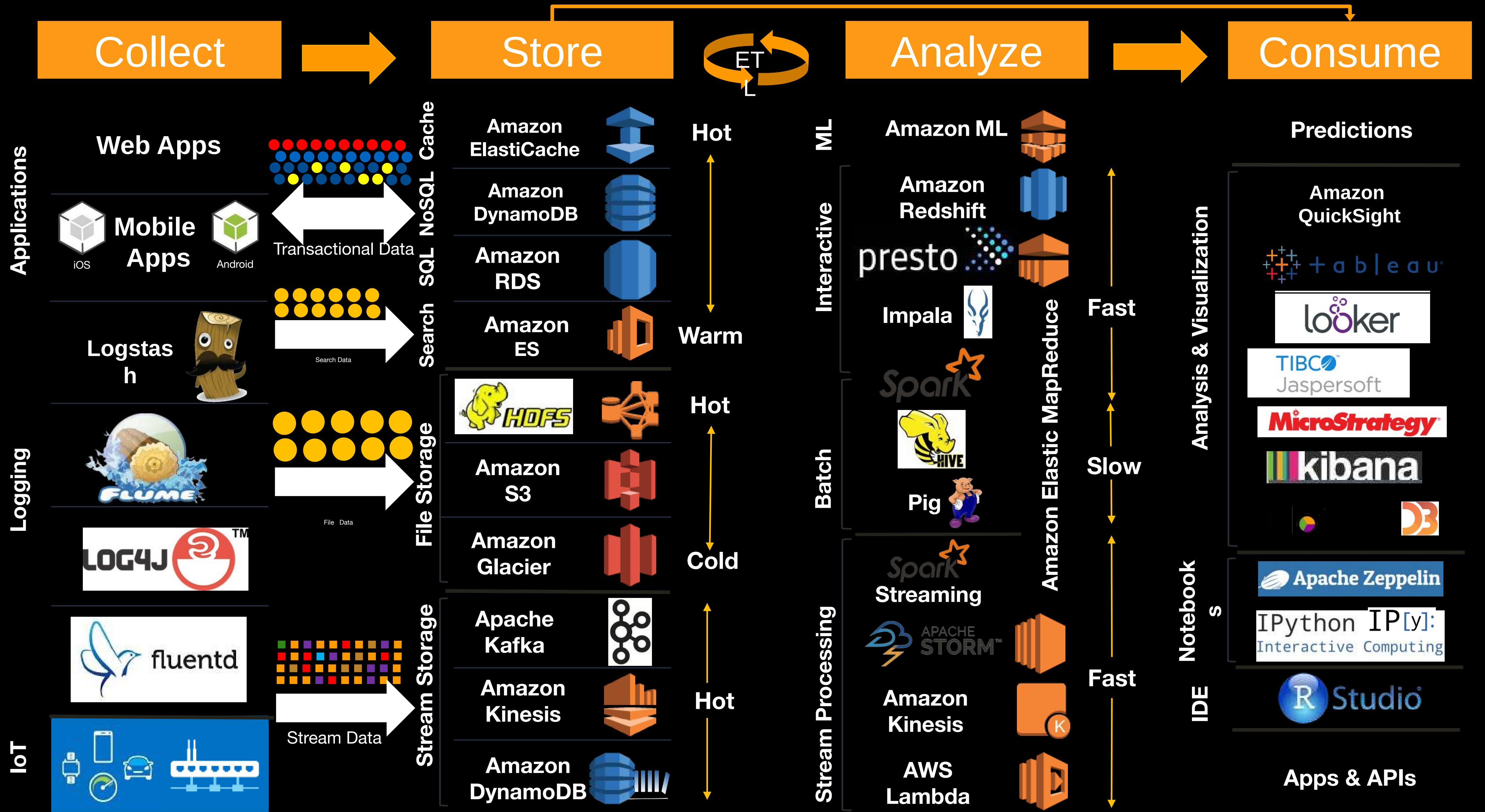
Pay as you go

Free tier on many services

→ Low cost of experimentation



Freedom to mine your data



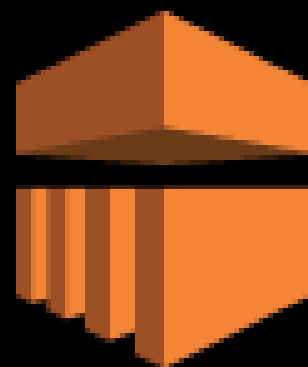
Case study: FINRA



Independent regulator for US equities and options trading

Over 10,000 EMR nodes to process 75 billion events daily

EMR



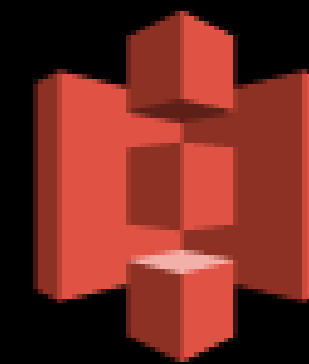
RDS



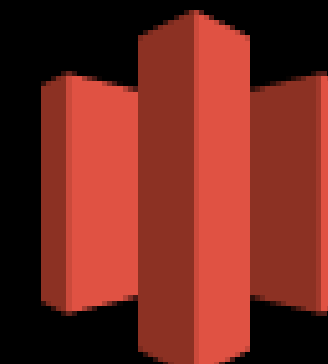
RedShift



S3



Glacier



FINRA estimates it will save up to \$20 million annually by using AWS instead of a physical data center infrastructure

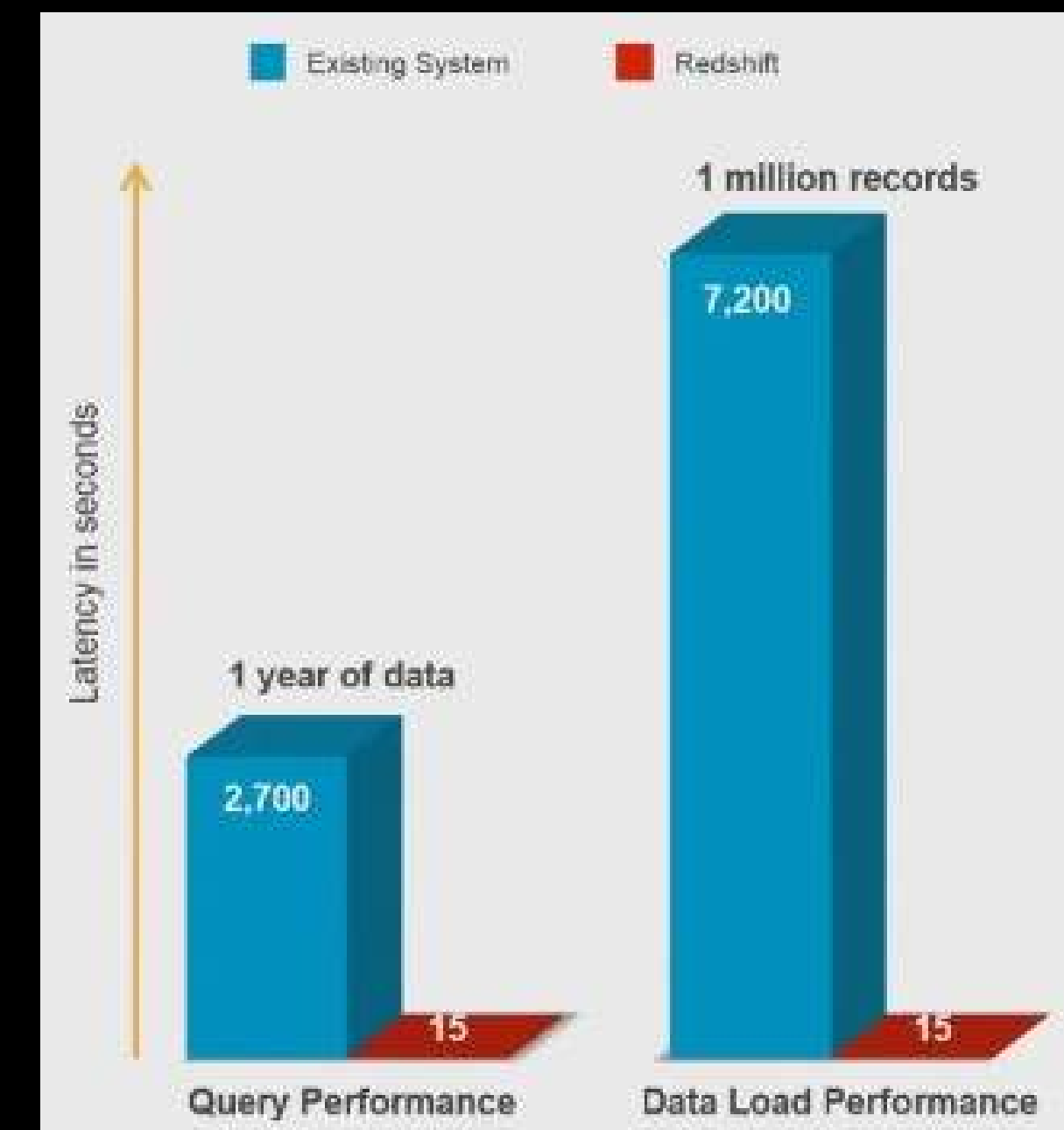
Case study: Boingo

<https://www.youtube.com/watch?v=58URZbp1voY>



- Largest operator of airport wireless hotspots in the world: 1M+ hotspots, 100+ countries
- About 15 TB of data, growing at 2-3 TB per year
- Platform running on SAP (ETL) & Oracle 11g: low performance, heavy admin, high cost
- Evaluated Oracle Exadata, SAP HANA and Amazon Redshift
- Selected Amazon Redshift and migrated in 2 months

6-7x less expensive than alternatives



Queries
180x
faster

Data load
480x
faster

Freedom to deploy

where you like,

the way you like,

continuously,

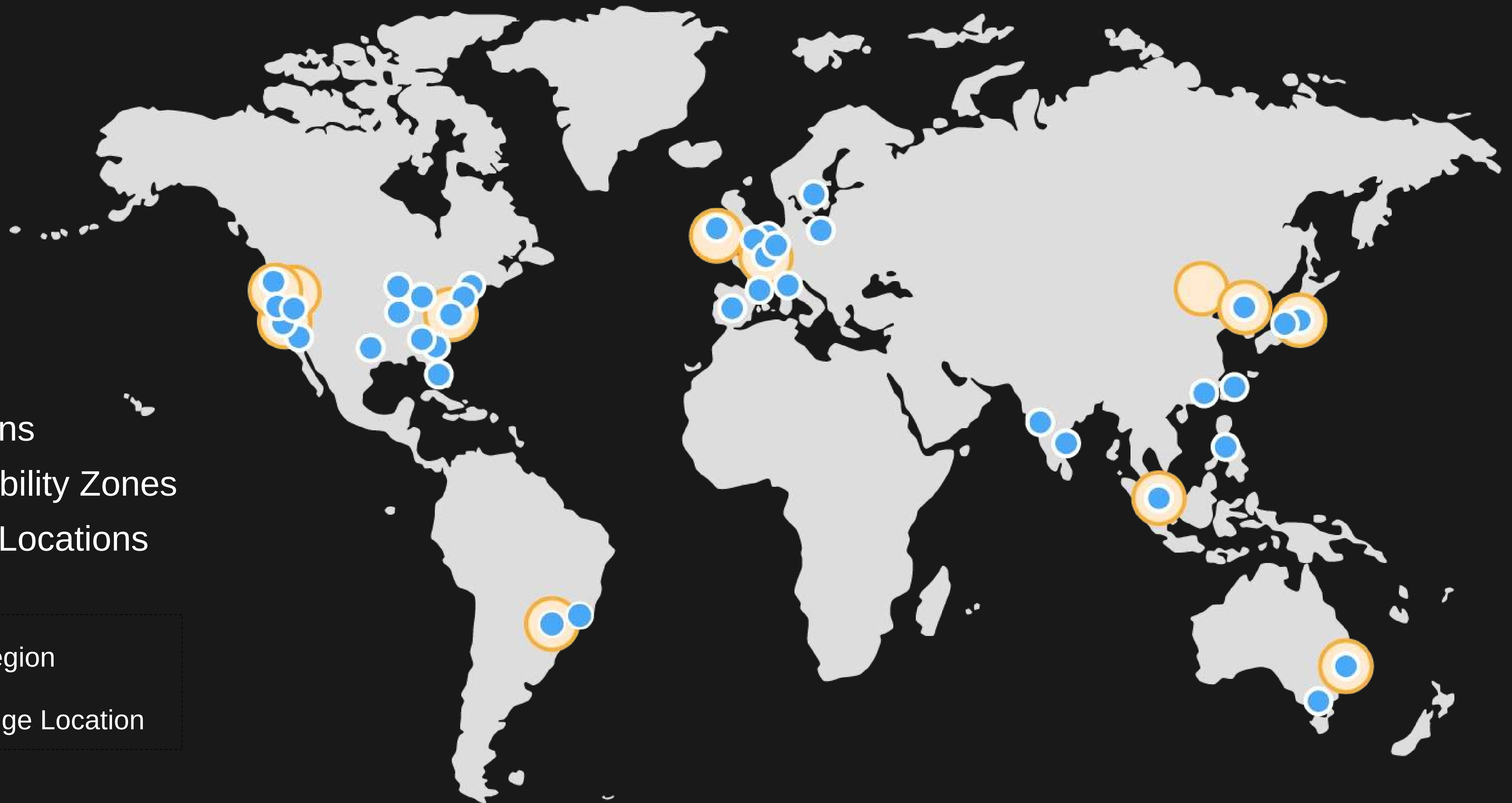
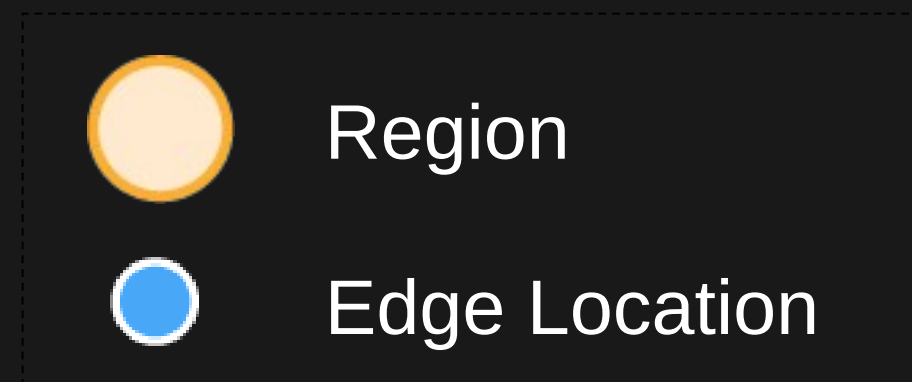
securely

AWS Global Infrastructure

12 Regions

33 Availability Zones

54 Edge Locations



IaaS, PaaS, containers or serverless: your pick



Amazon Elastic Compute Cloud (EC2) provides resizable compute capacity in the cloud.



AWS Elastic Beanstalk is an application container for deploying and managing applications.



AWS Lambda is a compute service that runs your code in response to events and automatically manages the compute resources for you.



Amazon ECS allows you to easily run and manage Docker containers across a cluster of Amazon EC2 instances.

A wide-angle shot of a stage at an AWS event. A large screen in the background displays the text "No Server Is Easier To Manage Than No Server". A person, Werner Vogels, is standing on the stage, facing the audience. The stage is lit with warm, golden light. On either side of the stage, there are small podiums with the AWS logo.

No Server Is Easier To Manage Than No Server

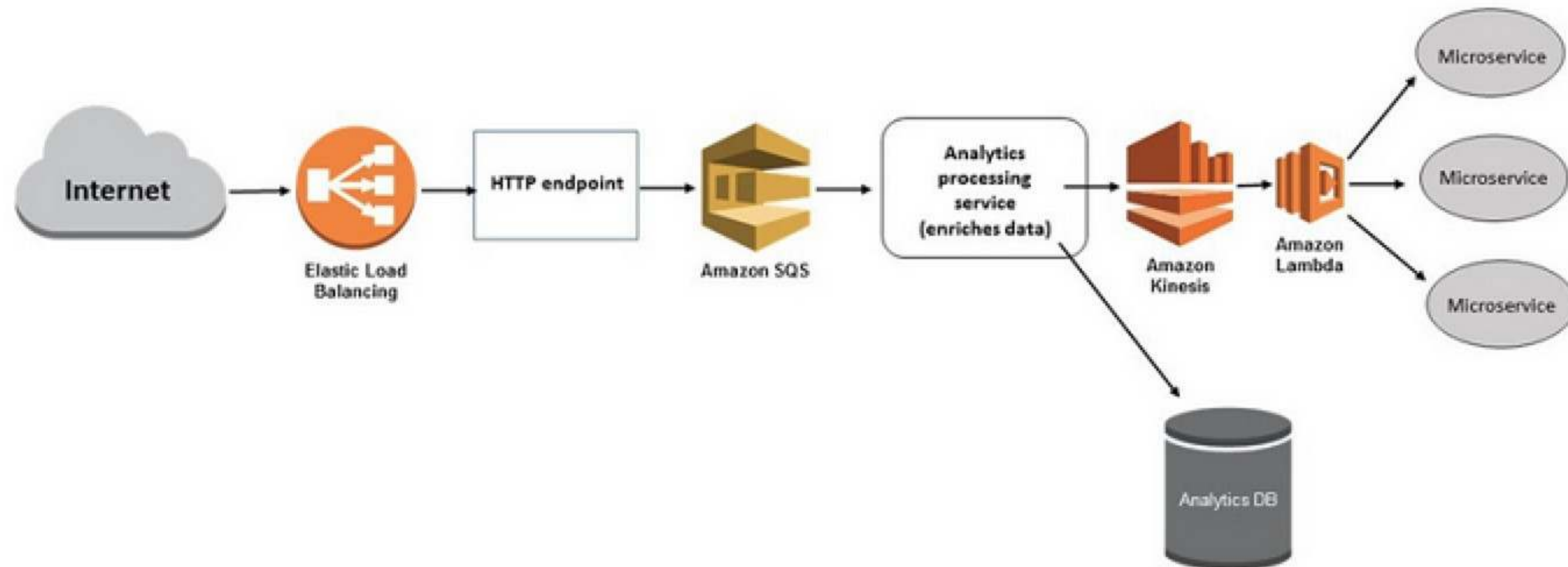
Werner Vogels, CTO, Amazon.com
AWS re:Invent 2015

Case study : Localytics

<https://aws.amazon.com/fr/solutions/case-studies/localytics/>

Web and mobile app analytics and engagement company

100 billion data points monthly



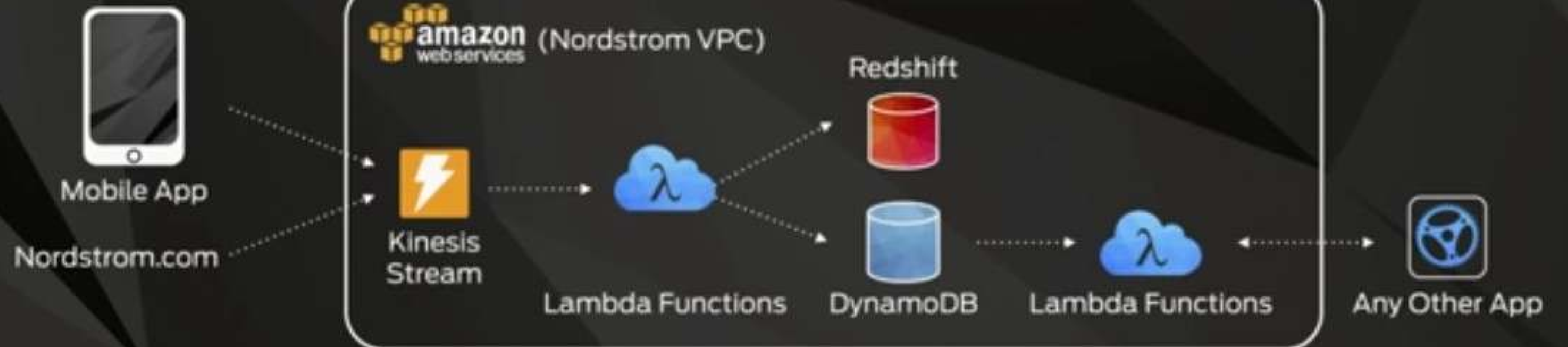
Case study: Nordstrom

<https://aws.amazon.com/fr/solutions/case-studies/nordstrom/>

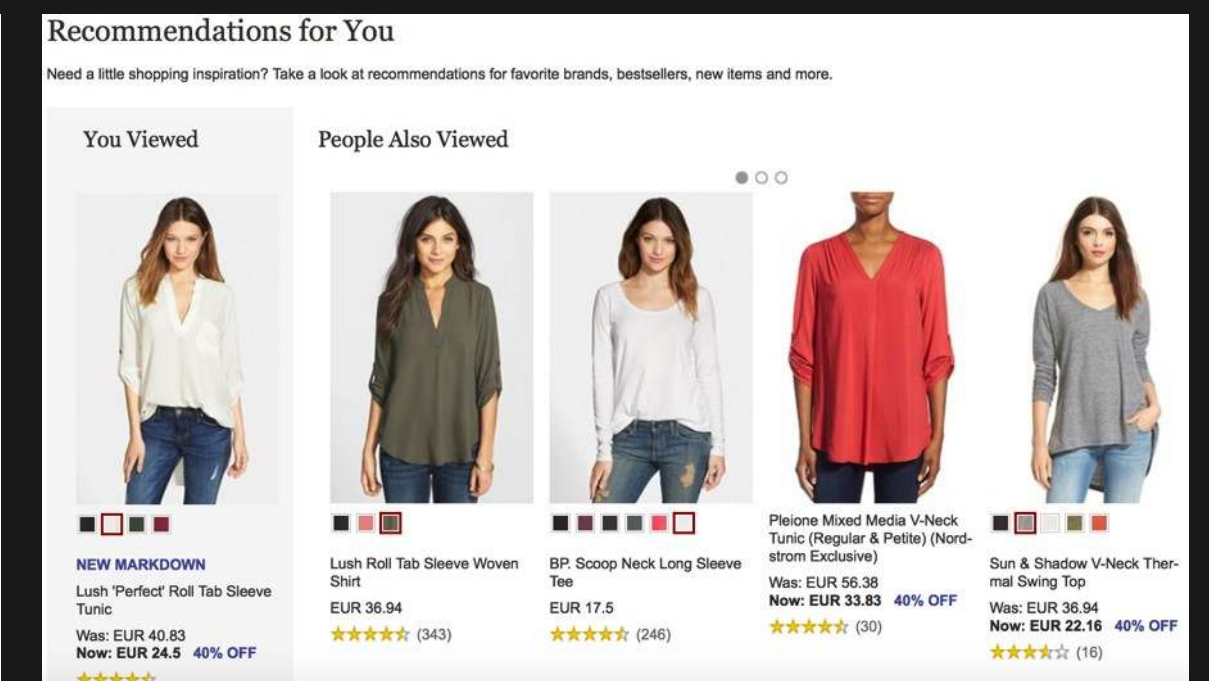
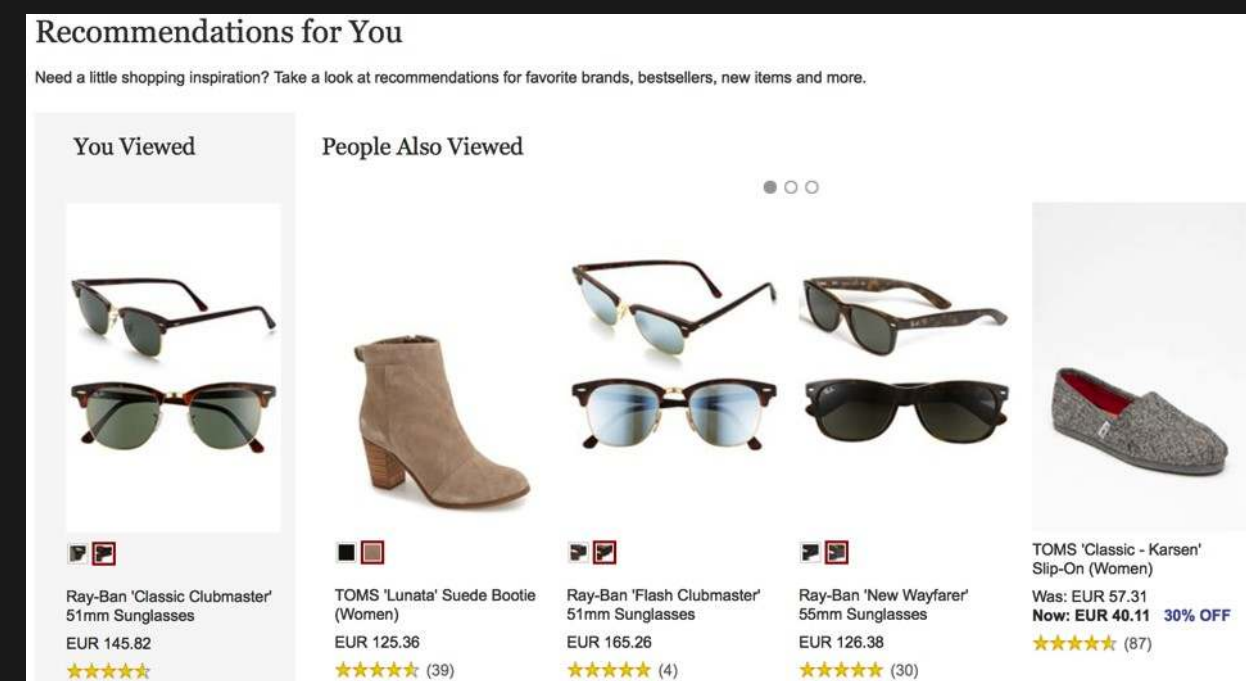
Nordstrom Recommendation

15-20 minute of
processing into seconds

2x order of magnitude
for cost savings



All-in on Amazon Web Services !



Case study: AdRoll

<https://aws.amazon.com/fr/solutions/case-studies/adroll/>

<https://aws.amazon.com/fr/dynamodb/adtech/>

50 billion ad impressions daily

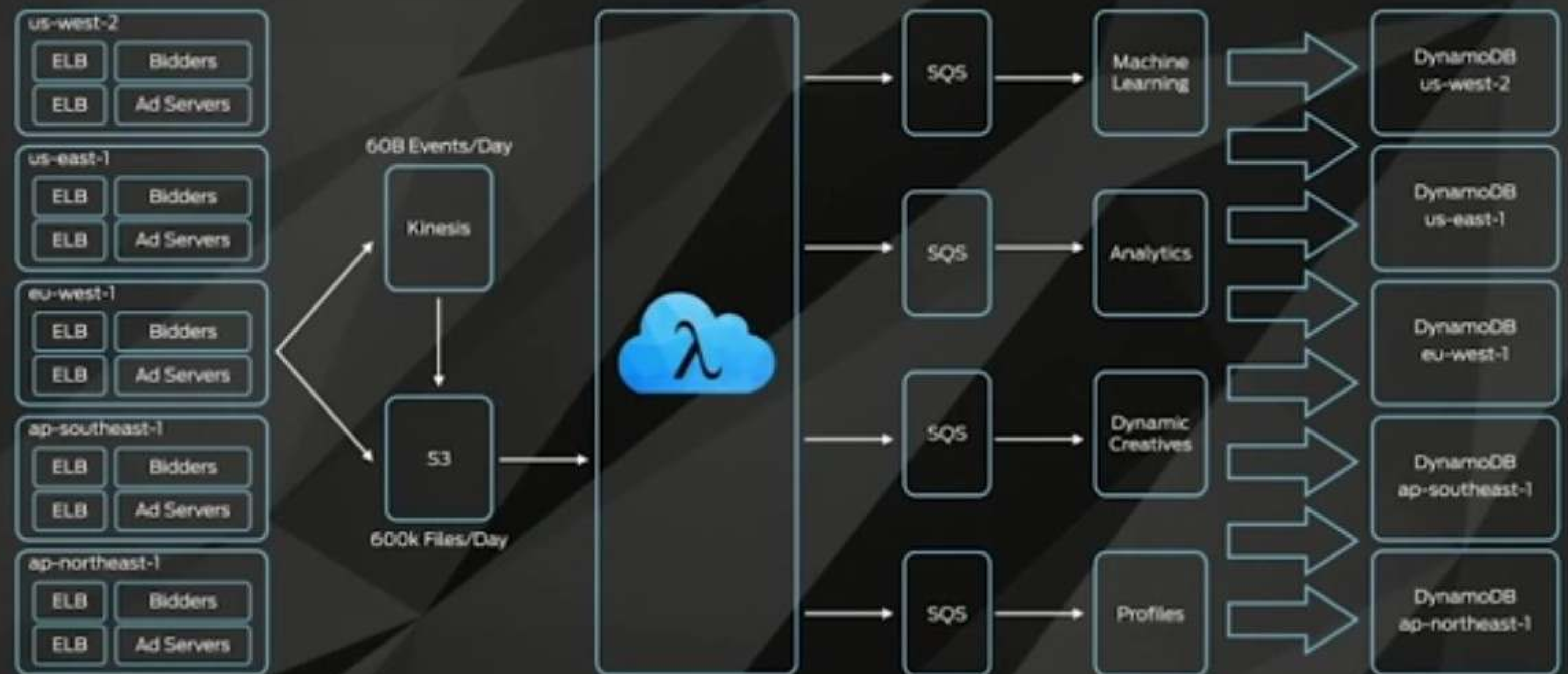
S3 Usage
GB of New Data



DynamoDB Usage
Items in DynamoDB
(in Billions)



Dive Deeper With Lambda



Deployments at Amazon.com



11.6s

1,079

10,000

30,000

Mean time
between
deployments
(weekday)

Max number of
deployments in a
single hour

Mean number of
hosts
simultaneously
receiving a
deployment

Max number of
hosts
simultaneously
receiving a
deployment

**With automated
rollbacks**

Case study : Career Builder

<https://aws.amazon.com/fr/solutions/case-studies/careerbuilder/>

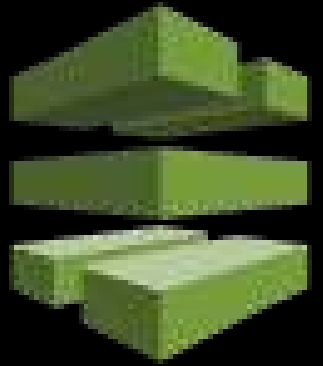
One of the largest online job sites in the US

24 million unique visitors monthly

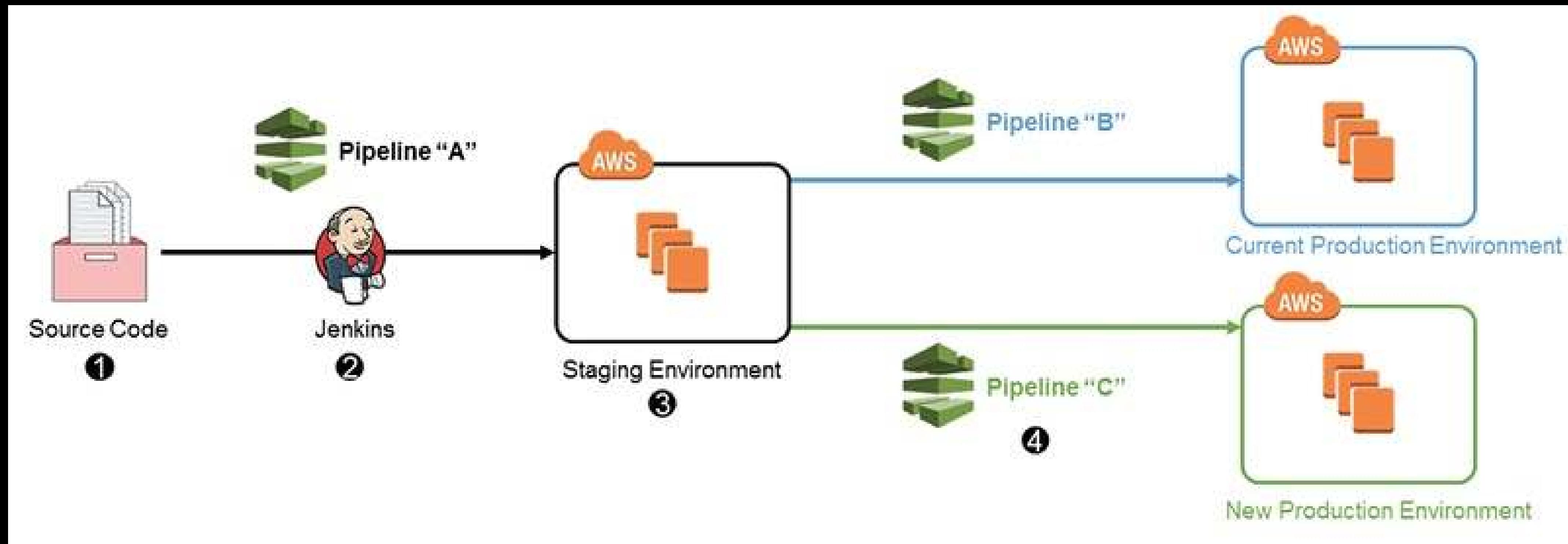
CodeCommit



CodePipeline



CodeDeploy



AWS Code partners

 GitHub


 Atlassian

 circleci

 CHEF™

 Jenkins

 CloudBees®

 Travis CI

 puppet
labs®

 Solano Labs

 CODESHIP

 A

ANSIBLE

 Apica

 Runscope

 Xebia Labs
Deliver Faster

 *BlazeMeter*

 Ghost Inspector

 SALTSTACK

A Broad Set of Services to Secure your Applications

Networking

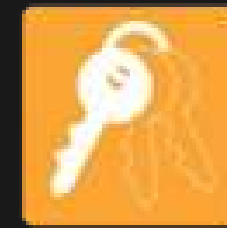


Virtual Private
Cloud

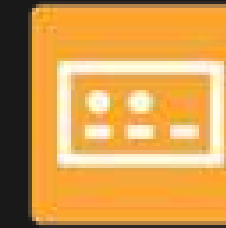


Web
Application
Firewall

Encryption



Key
Management
Service



CloudHSM



Server-side
Encryption

Identity



IAM



Active
Directory
Integration



SAML
Federation

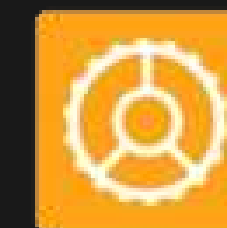
Compliance



Service
Catalog



CloudTrail



Config



Inspector

Move Fast

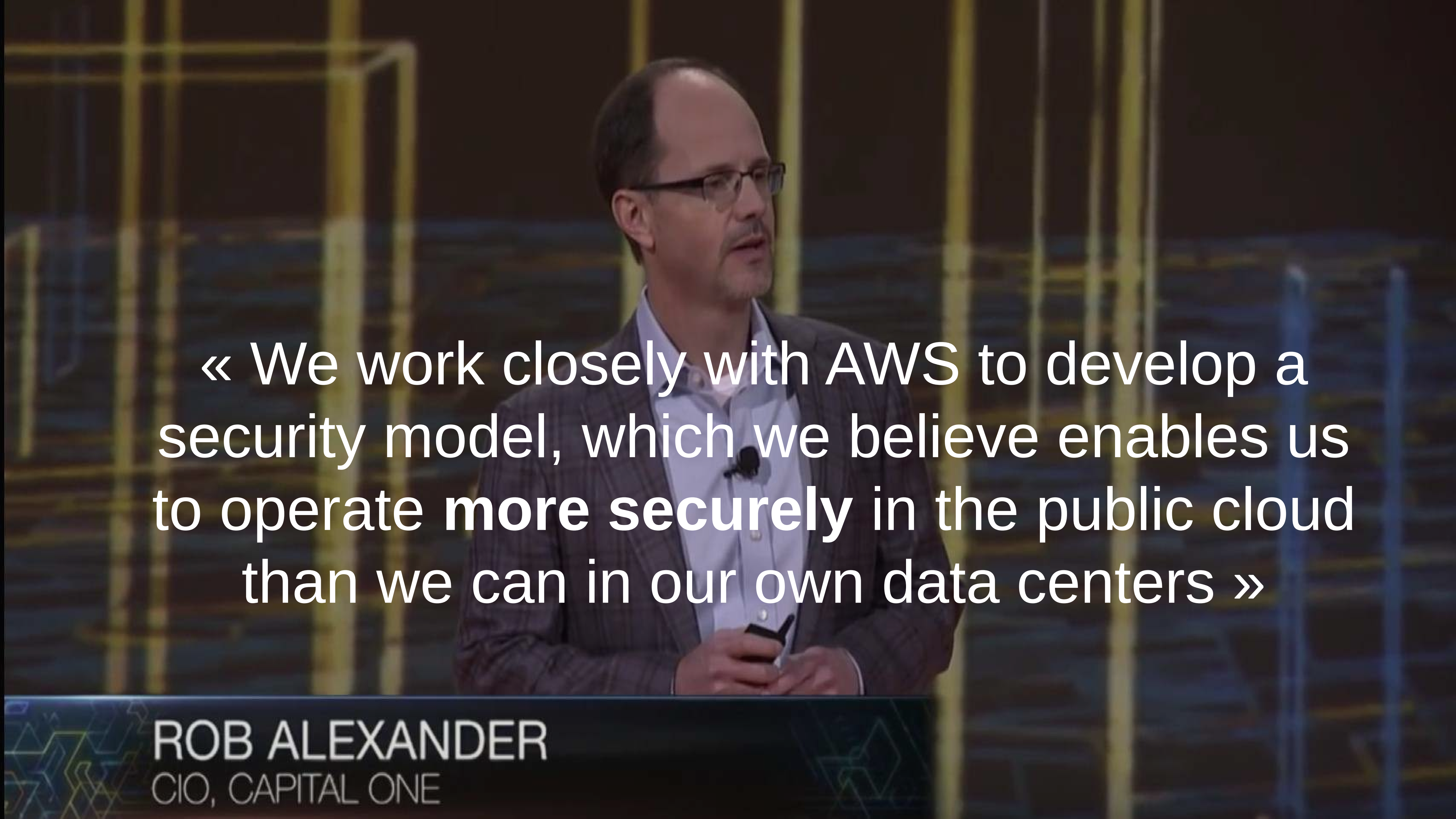
OR

Stay Secure

Move Fast

AN
D

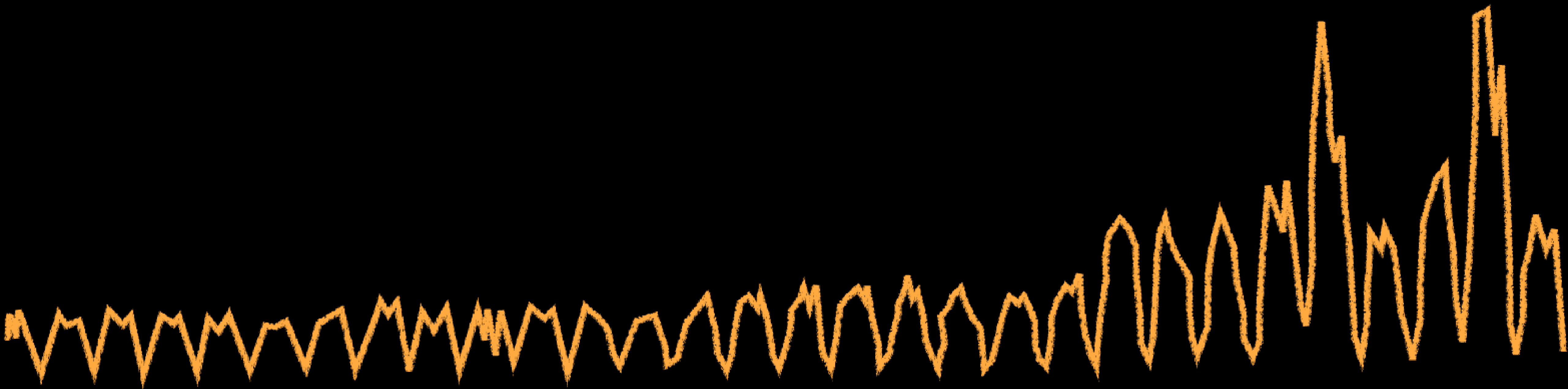
Stay Secure

A man with glasses and a mustache, wearing a dark blazer over a light blue shirt, is speaking at a podium. He is holding a small black object in his hands. The background is a dimly lit data center with rows of server racks. The text is overlaid in white on the image.

« We work closely with AWS to develop a security model, which we believe enables us to operate **more securely** in the public cloud than we can in our own data centers »

ROB ALEXANDER
CIO, CAPITAL ONE

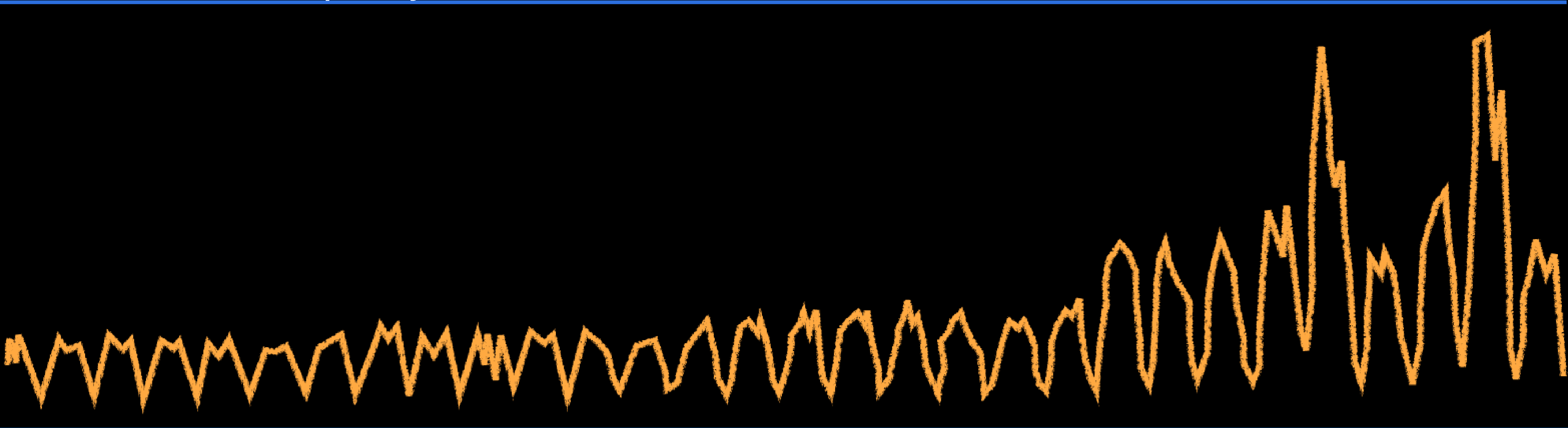
Freedom to grow



November

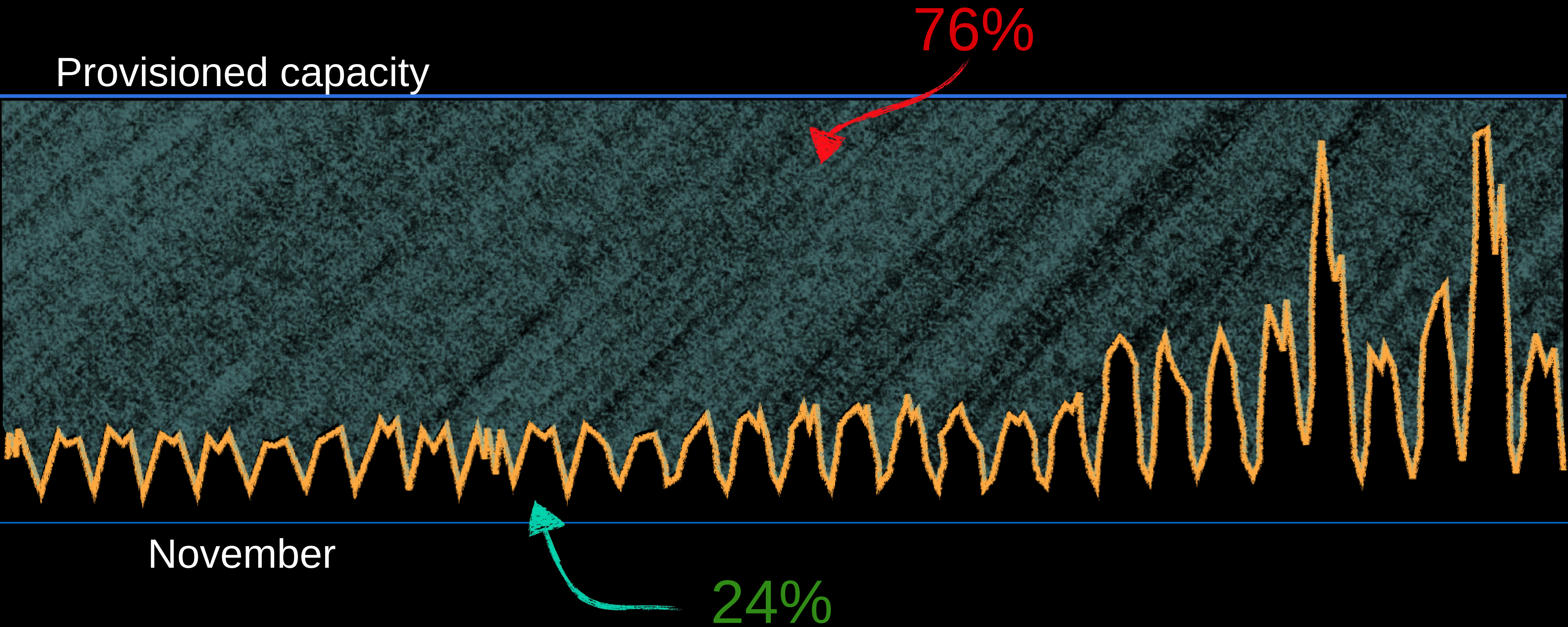


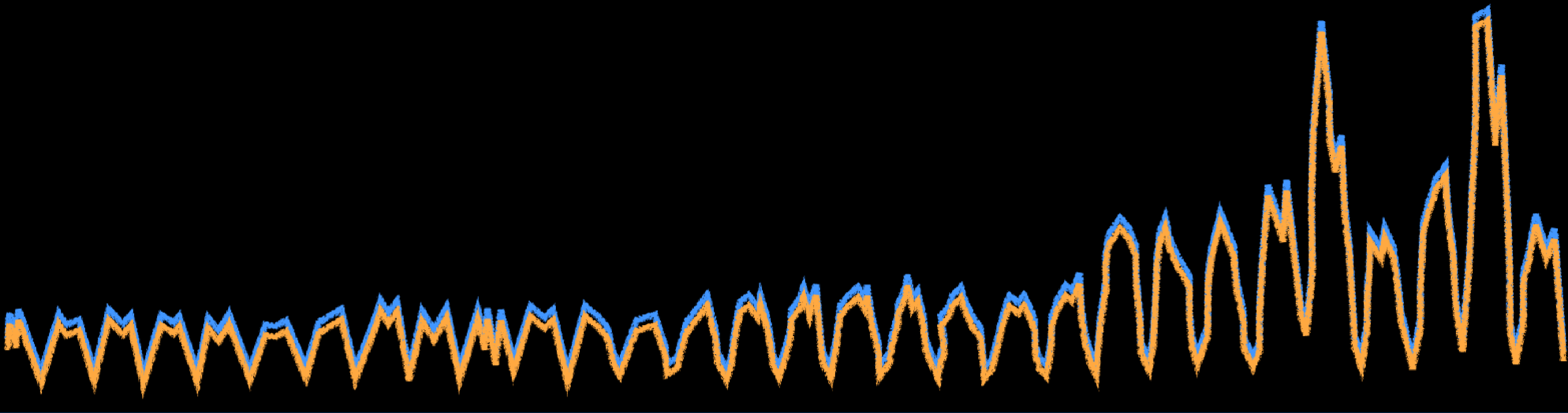
Provisioned capacity



November

Provisioned capacity





November

Supercell: 100 million active users daily



Ilkka Paananen @ipaananen · 7 mars

Voir la traduction 

100MILLION! Huge milestone for us, wanted to share some thoughts and a video: supr.cl/100m [#welovetuvalu](https://twitter.com/hashtag/welovetuvalu)

Hi Everyone,

Today we've announced a major milestone in Supercell's history: 100m daily active players!

100 million! It blows my mind to think of that many people playing our games all around the world, every single day. I want to thank every single one of them: from Albania to Zimbabwe and everywhere else in between. Wish we had someone from Tuvalu! :-)

<https://twitter.com/ipaananen/status/706844089216532480>

Case study : Supercell

<https://aws.amazon.com/fr/solutions/case-studies/supercell/>

45 billion real-time events and 10 TB of data every day

Kinesis



EMR



DynamoDB



S3



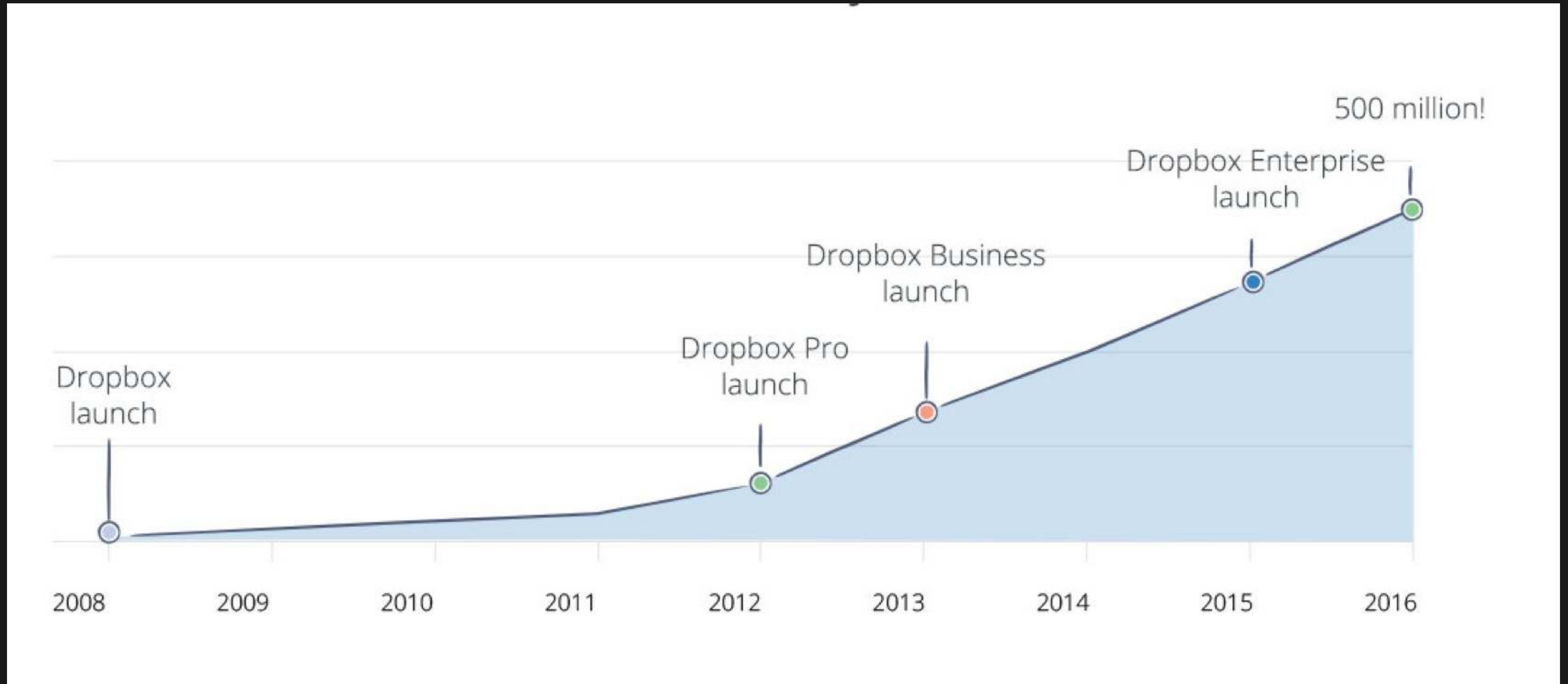
Glacier



“We don’t have to worry about being able to manage our infrastructure to match our growth — AWS tools make it easy for us.”

Sami Yliharju, Services Lead

Dropbox: 500 million users



<https://blogs.dropbox.com/dropbox/2016/03/500-million/>

“AWS is the easy answer for any Internet business that wants to scale to the next level ”

Nathan Blecharczyk, Co-founder & CTO of Airbnb

**Freedom to Control
Your Own Destiny**

**Useless since we've moved to AWS. For sale !
Without reserve auction, starting 1 EUR...**



<http://www.ebay.fr/itm/-/262328428090>

Thank you!

... and keep rockin'! ☺