



The Power Of AWS

“Invention requires two things:

1. The ability to try a lot of experiments, and 2. not having to live with the collateral damage of failed experiments.”

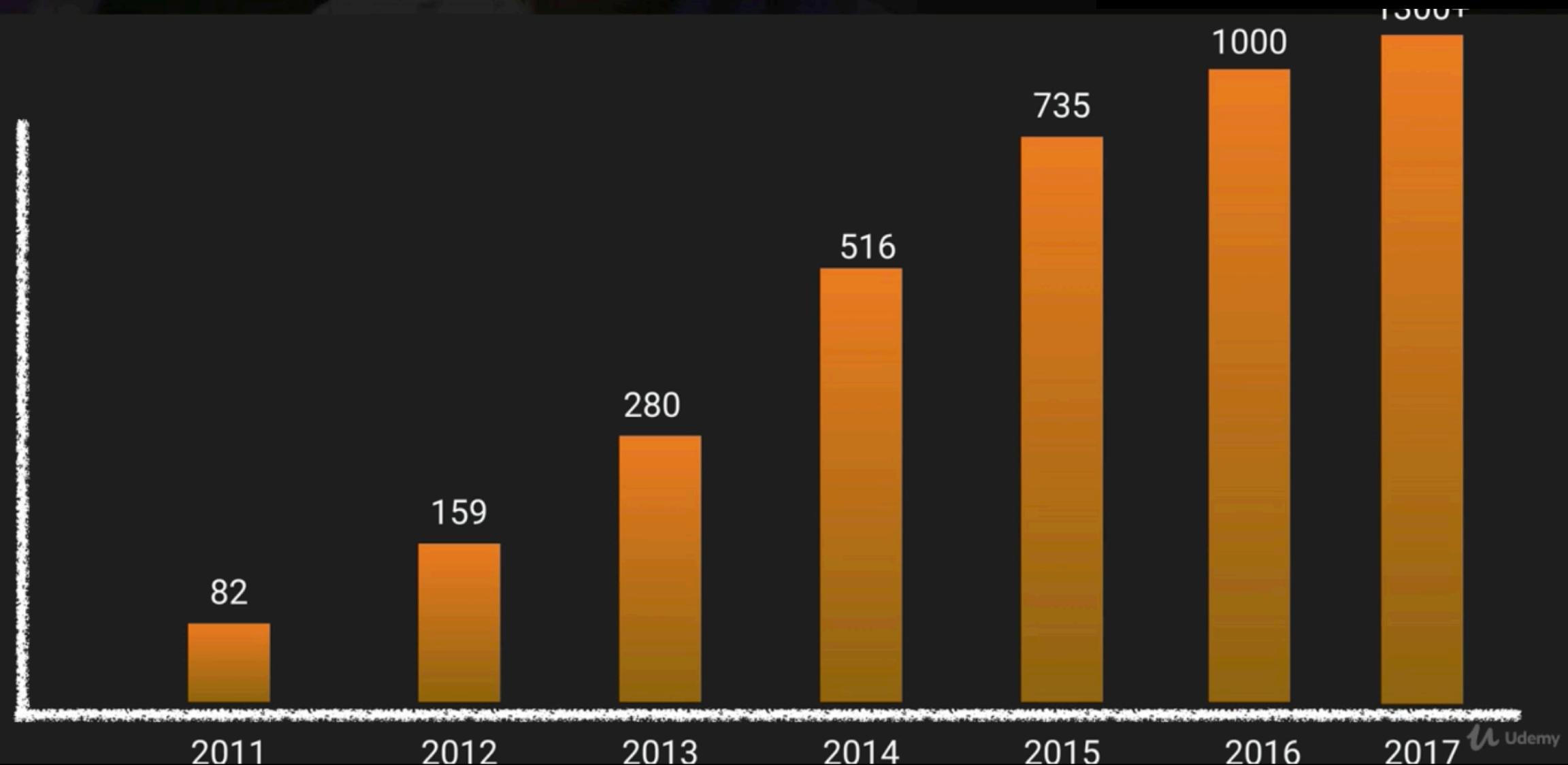
- Andy Jassy CEO AWS



A Brief Time Line of AWS

- 2003 - Chris Pinkhan & Benjamin Black present a paper on what Amazon's own internal infrastructure should look like
- Suggested selling it as a service and prepared a business case.
- SQS officially launched in 2004
- AWS Officially launched in 2006
- 2007 over 180,000 developers on the platform
- 2010 all of amazon.com moved over
- 2012 First re:Invent Conference
- 2013 Certifications Launched
- 2014 Committed to achieve 100% renewable energy usage for its global footprint
- 2015 AWS breaks out its revenue: \$6 Billion USD per annum and growing close to 90% year on year
- 2016 Run rate of \$13 billion USD.
- 2017 AWS re:invent releases a host of Artificial Intelligent Services as well as Virtual Reality services.

AWS New Service Announcements & Updates



Gartner's Magic Quadrant



In June 2017, AWS was named as a leader in the IaaS Magic Quadrant for the 7th consecutive year

The AWS Platform

Game Development

Business Productivity

Desktop & App Streaming

Internet Of Things

AR / VR

Application Integration

Customer Engagement

Analytics

Security & Identity &
Compliance

Mobile Services

Management Tools

Media Services

Machine Learning

Migration

Networking & Content
Delivery Delivery

Developer Tools

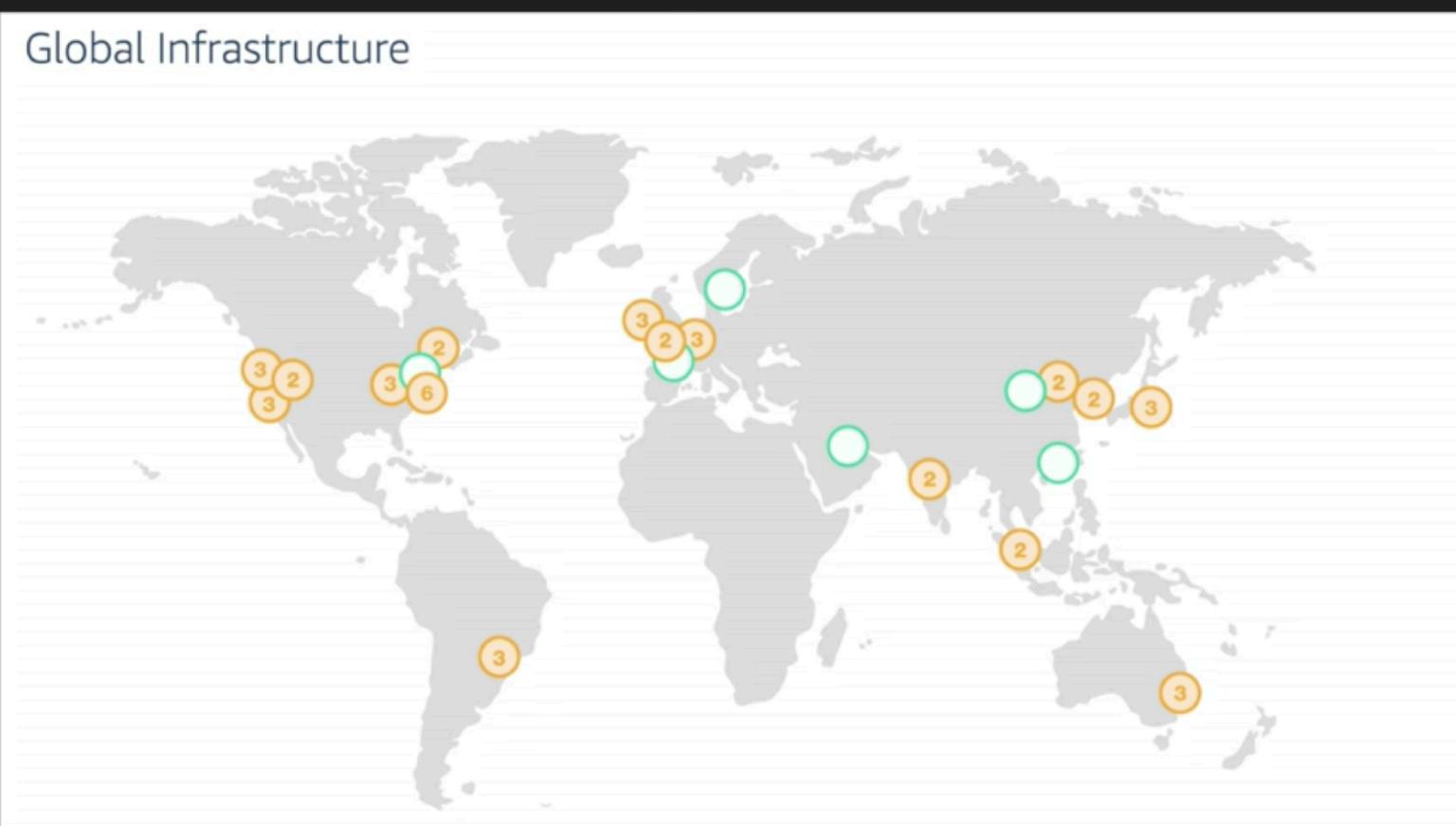
Compute

Storage

Databases

AWS Global Infrastructure

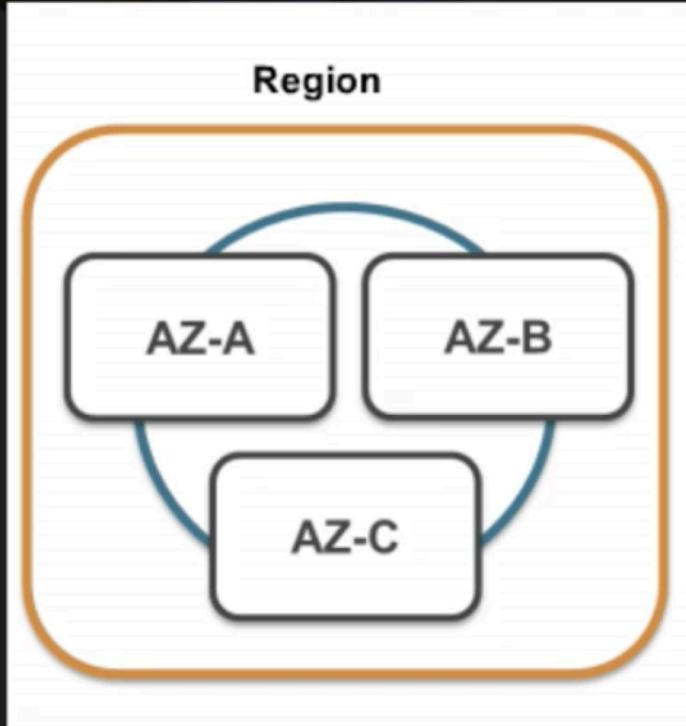
AWS Global Infrastructure



16 Regions & 44 Availability Zones - December 2017

6 More Regions & 17 More AZ's for 2018

What is a Region? What is an AZ?



A Region is a geographical area. Each Region consists of 2 (or more) Availability Zones.

An Availability Zone (AZ) is simply a Data Center.

A Brief Look At Today's Regions

North America



US East (Northern Virginia) Region

EC2 Availability Zones: 6
Launched 2006

US East (Ohio) Region

EC2 Availability Zones: 3
Launched 2016

US West (Oregon) Region

EC2 Availability Zones: 3
Launched 2011

US West (Northern California) Region

EC2 Availability Zones: 3*
Launched 2009

AWS GovCloud (US-West) Region

EC2 Availability Zones: 2
Launched 2011

Canada (Central)

EC2 Availability Zones: 2
Launched 2016
[Learn more at AWS Canada](#)

AWS Edge Network Locations:

North America

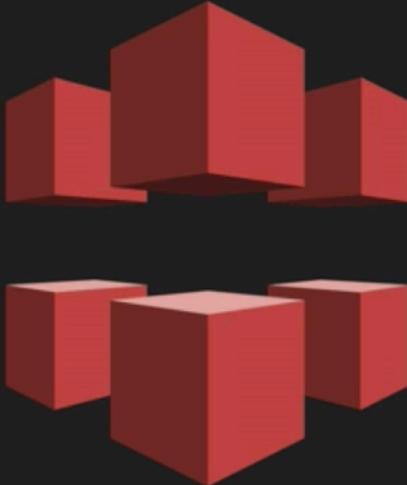
Edge locations - Ashburn, VA (3); Atlanta GA (3); Boston, MA; Chicago, IL (2); Dallas/Fort Worth, TX (4); Denver, CO; Hayward, CA; Jacksonville, FL; Los Angeles, CA (2); Miami, FL (2); Minneapolis, MN; Montreal, QC; New York, NY (3); Newark, NJ (2); Palo Alto, CA; Phoenix, AZ; Philadelphia, PA; San Jose, CA; Seattle, WA (3); South Bend, IN; St. Louis, MO; Toronto, ON

Regional Edge Caches - Northern Virginia; Ohio; Oregon

**New customers can access two EC2 Availability Zones in US West (Northern California).*

[See detailed list of offerings at all AWS locations](#)

What Is An Edge Location?



Edge Locations are endpoints for AWS which are used for caching content. Typically this consists of CloudFront, Amazon's Content Delivery Network (CDN)

There are many more Edge Locations than Regions.
Currently there are over 96 Edge Locations.

A Brief Look At Today's Regions

South America



South America (São Paulo) Region

EC2 Availability Zones: 3*

Launched 2011

AWS Edge Network Locations

Edge locations - Rio de Janeiro, Brazil; São Paulo, Brazil (2)

Regional Edge Caches - São Paulo, Brazil

*New customers can access two EC2 Availability Zones in South America (São Paulo)

[See detailed list of offerings at all AWS locations](#)

A Brief Look At Today's Regions

Europe / Middle East / Africa



Europe (Ireland) Region

EC2 Availability Zones: 3
Launched 2007

Europe (Frankfurt) Region

EC2 Availability Zones: 3
Launched 2014

Europe (London) Region

EC2 Availability Zones: 2
Launched 2016

AWS Edge Network Locations

Edge locations - Amsterdam, The Netherlands (2); Berlin, Germany; Dublin, Ireland; Frankfurt, Germany (6); Helsinki, Finland; London, England (5); Madrid, Spain (2); Manchester, England; Marseille, France; Milan, Italy; Munich, Germany; Palermo, Italy; Paris, France (3); Prague, Czech Republic; Stockholm, Sweden (3); Vienna, Austria; Warsaw, Poland; and Zurich, Switzerland.

Regional Edge Caches - Frankfurt, Germany; London, England

[See detailed list of offerings at all AWS locations](#)

A Brief Look At Today's Regions

Asia Pacific



Asia Pacific (Singapore) Region

EC2 Availability Zones: 2
Launched 2010

Asia Pacific (Tokyo) Region

EC2 Availability Zones: 3*
Launched 2011

Asia Pacific (Sydney) Region

EC2 Availability Zones: 3
Launched 2012

Asia Pacific (Seoul) Region

EC2 Availability Zones: 2
Launched 2016

Asia Pacific (Mumbai) Region

EC2 Availability Zones: 2
Launched 2016

China (Beijing) Region

EC2 Availability Zones: 2
[Learn more at www.amazonaws.cn](http://www.amazonaws.cn)

AWS Edge Network Locations

Edge locations - Chennai, India; Hong Kong, China (3); Kuala Lumpur, Malaysia; Manila, the Philippines; Melbourne, Australia; Mumbai, India (2); New Delhi, India; Osaka, Japan; Seoul, Korea (3); Singapore (2); Sydney, Australia; Taipei, Taiwan; Tokyo, Japan (5)

Regional Edge Caches - Mumbai, India; Seoul, Korea; Singapore; Sydney, Australia; Tokyo, Japan

**New customers can access two EC2 Availability Zones in Asia Pacific (Tokyo).*

[See detailed list of offerings at all AWS locations](#)

EXAM TIPS

Understand the difference between a region, an Availability Zone (AZ) and an Edge Location.

- A Region is a physical location in the world which consists of two or more Availability Zones (AZ's).
- An AZ is one or more discrete data centers, each with redundant power, networking and connectivity, housed in separate facilities.
- Edge Locations are endpoints for AWS which are used for caching content. Typically this consists of CloudFront, Amazon's Content Delivery Network (CDN)



Services ▾

Resource Groups ▾



A Cloud Guru 2018 ▾

Oregon ▾

Support ▾

History

AWS IoT

CloudFormation

IAM

Console Home

S3

VPC

Compute

- EC2
- Lightsail
- Elastic Container Service
- Lambda
- Batch
- Elastic Beanstalk

Storage

- S3
- EFS
- Glacier
- Storage Gateway

Database

- RDS
- DynamoDB
- ElastiCache
- Amazon Redshift

Migration

- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service
- Snowball

Developer Tools

- CodeStar
- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

Management Tools

- CloudWatch
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services

- Elastic Transcoder
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore
- MediaTailor

Analytics

- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- Kinesis Video Streams
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance

- IAM
- Cognito
- GuardDuty
- Inspector
- Amazon Macie
- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

Mobile Services

- Mobile Hub
- Pinpoint
- AWS AppSync
- Device Farm

Customer Engagement

- Amazon Connect
- Simple Email Service
- Alexa for Business
- Amazon Chime
- WorkDocs
- WorkMail

Desktop & App Streaming

- WorkSpaces
- AppStream 2.0

Internet Of Things

- AWS IoT
- IoT Device Management
- Amazon FreeRTOS
- AWS Greengrass

Game Development

- Amazon GameLift

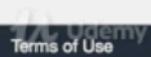
Feedback

English (US)

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