

INTRODUCTION TO AWS

Outline

- ▶ What is AWS?
- ▶ AWS Platform and Services
- ▶ AWS Global Infrastructure
- ▶ Regions/Availability Zones
- ▶ Benefits
- ▶ Customers

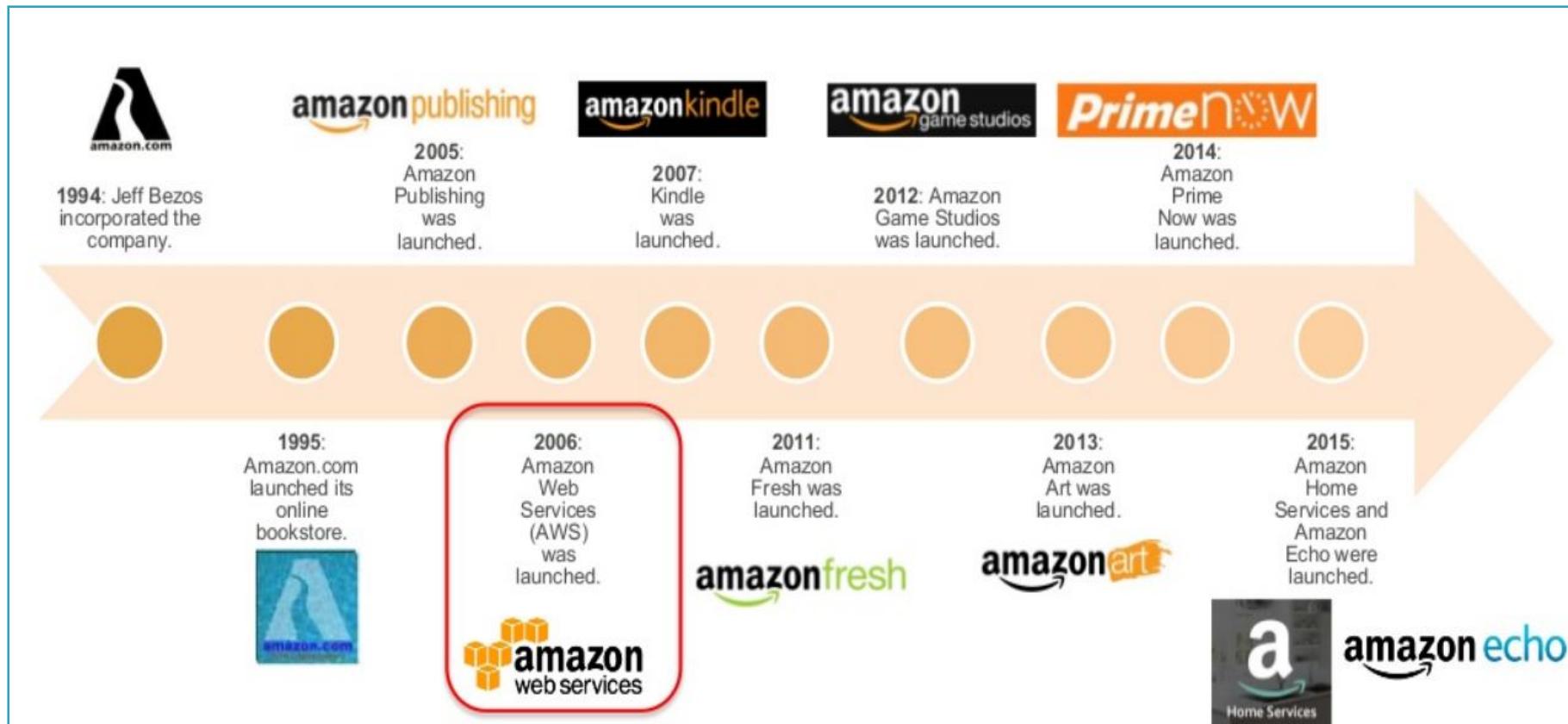
What is AWS?

Amazon Web Services (AWS) is a secure cloud services platform, offering compute power, database storage, networking, content delivery and other functionality to help businesses scale and grow

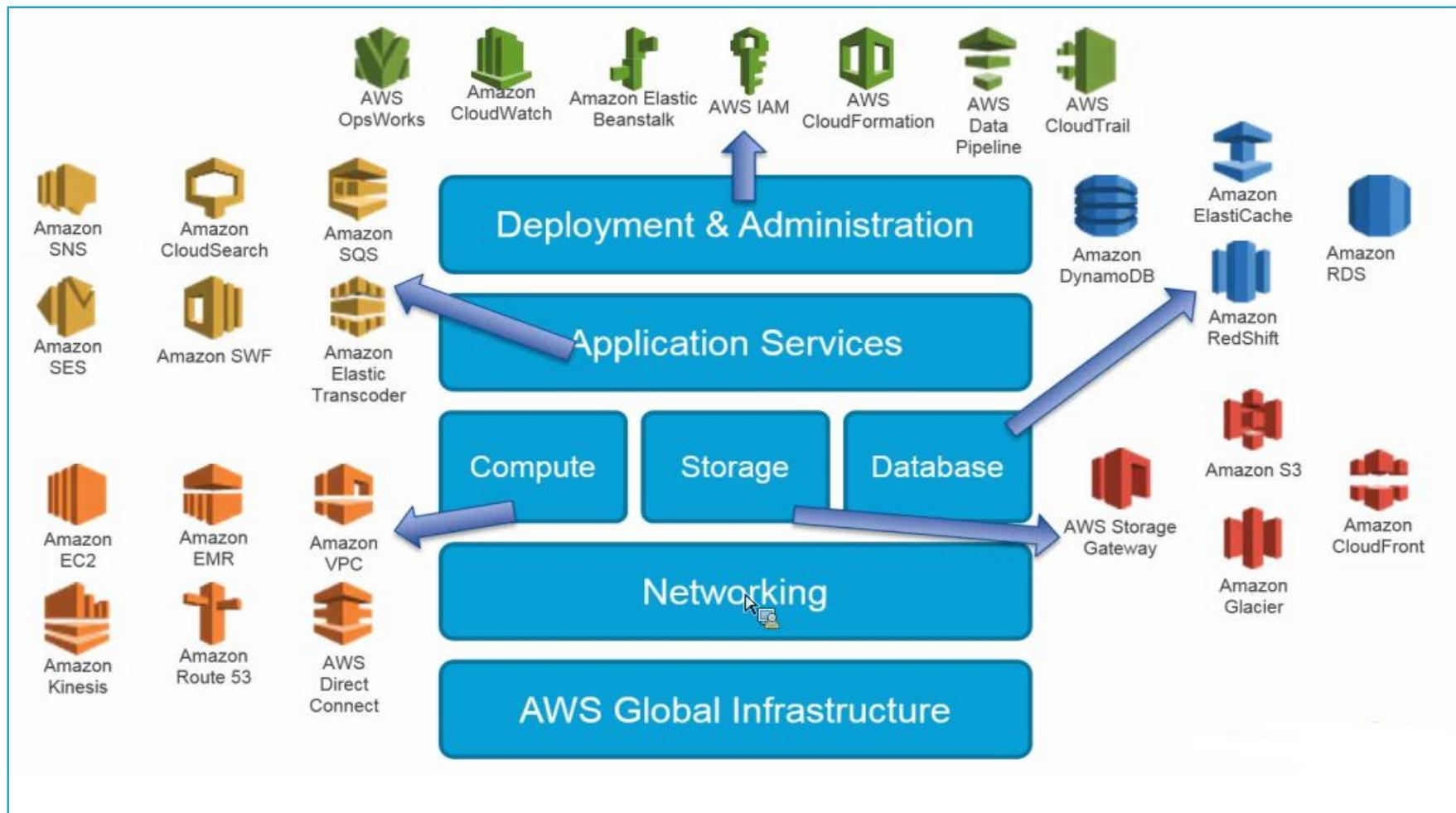
Enable businesses and developers to use web services to build scalable, sophisticated applications.



Amazon History



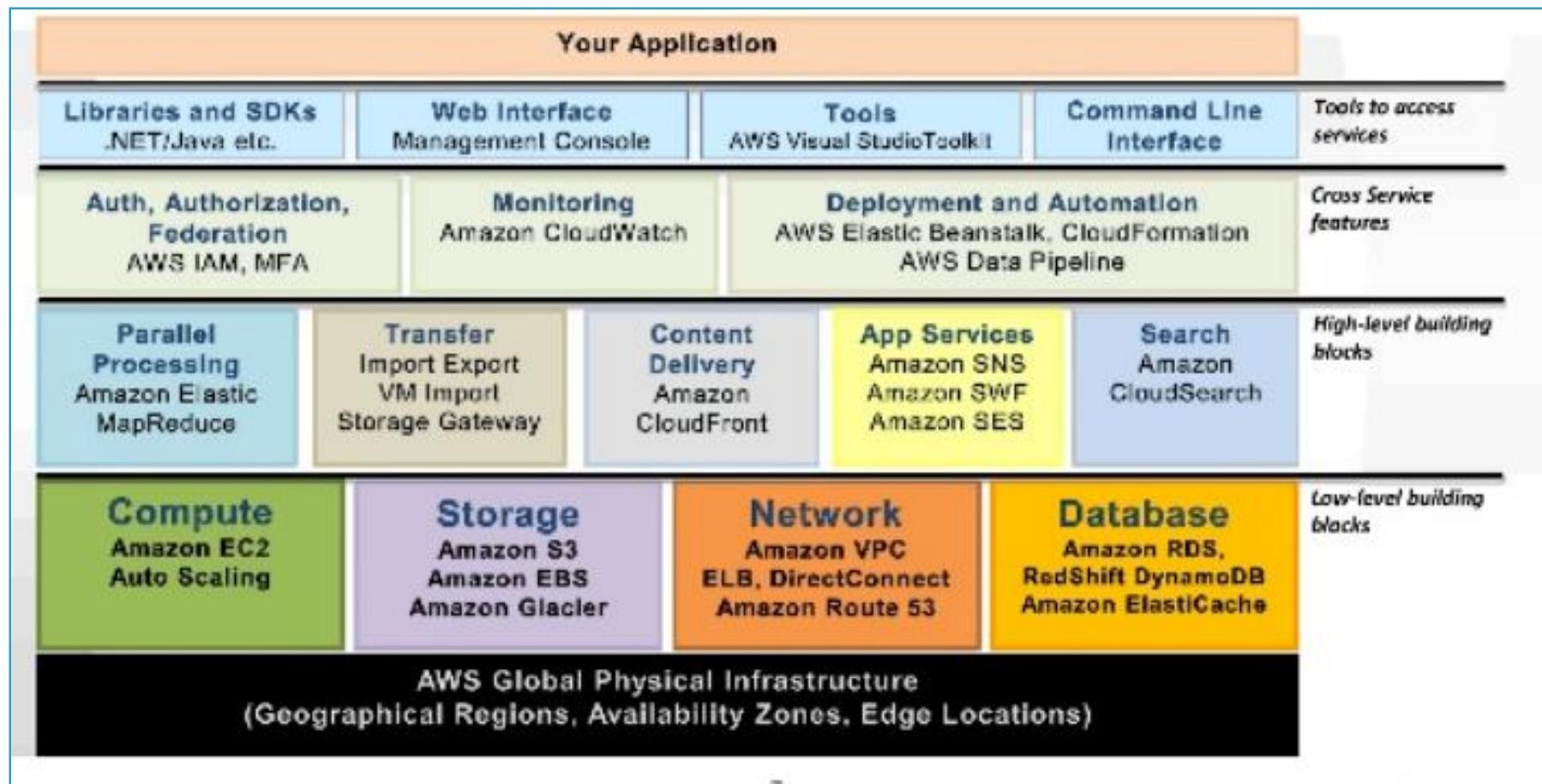
AWS Platform



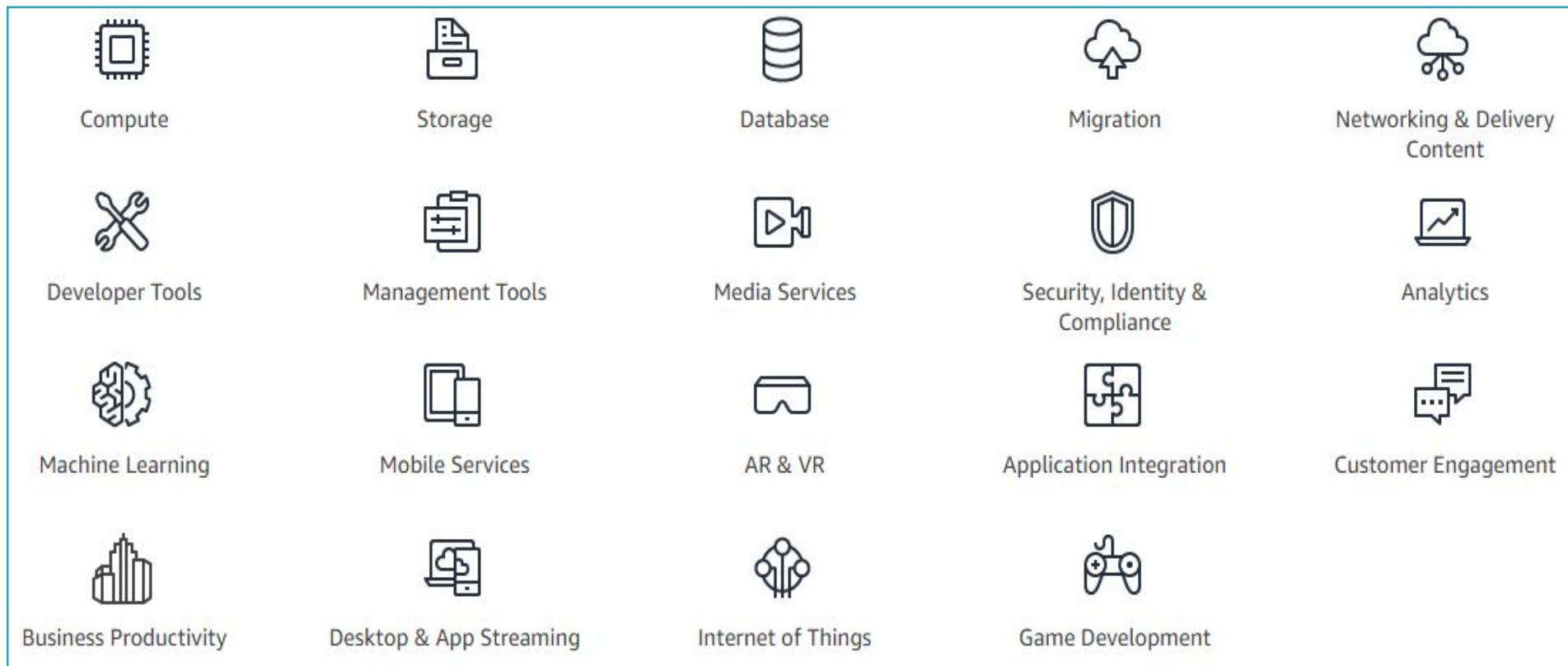
AWS Platform



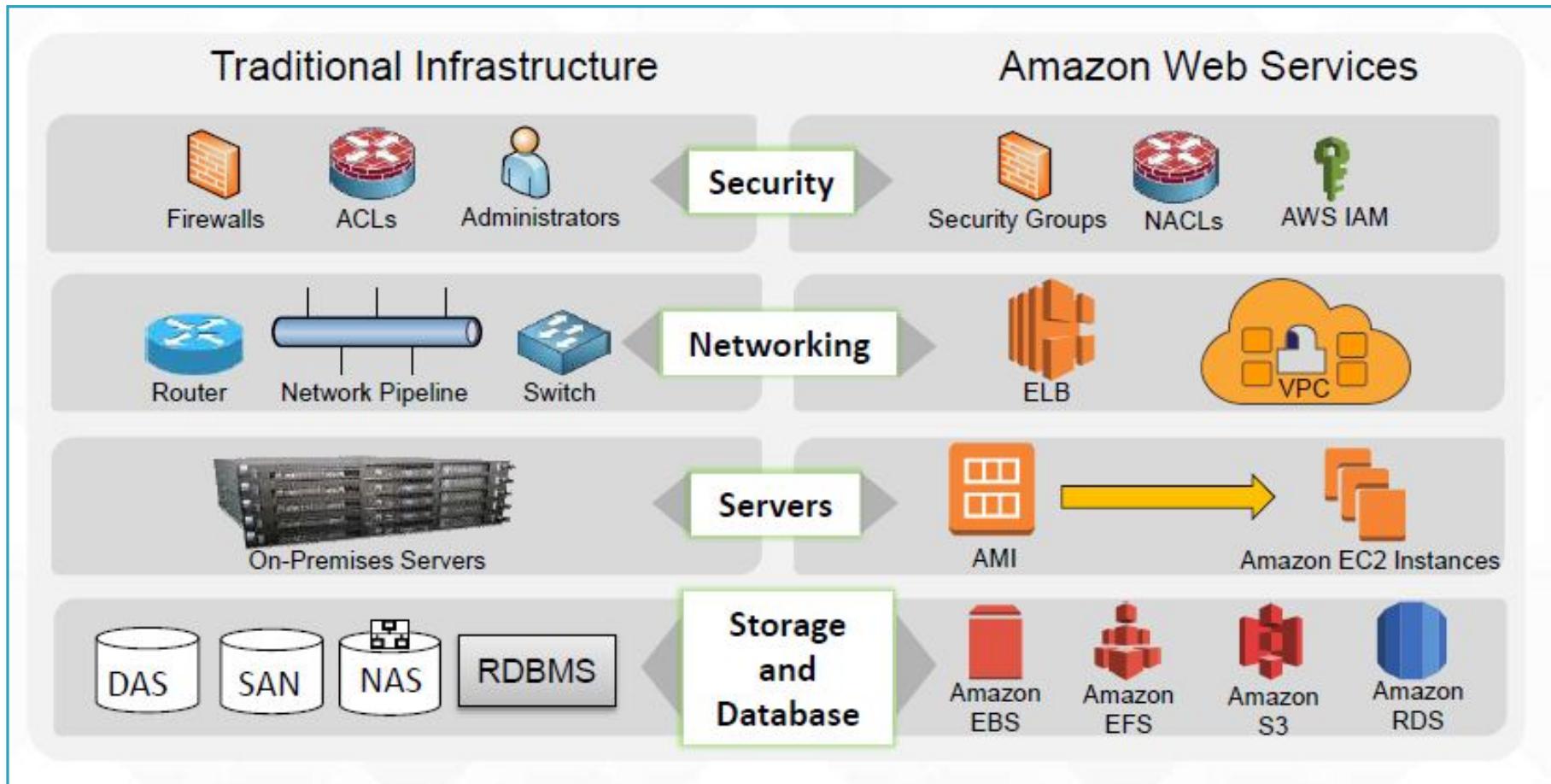
AWS Cloud Layers



AWS Services Overview



AWS Core Infrastructure and Services

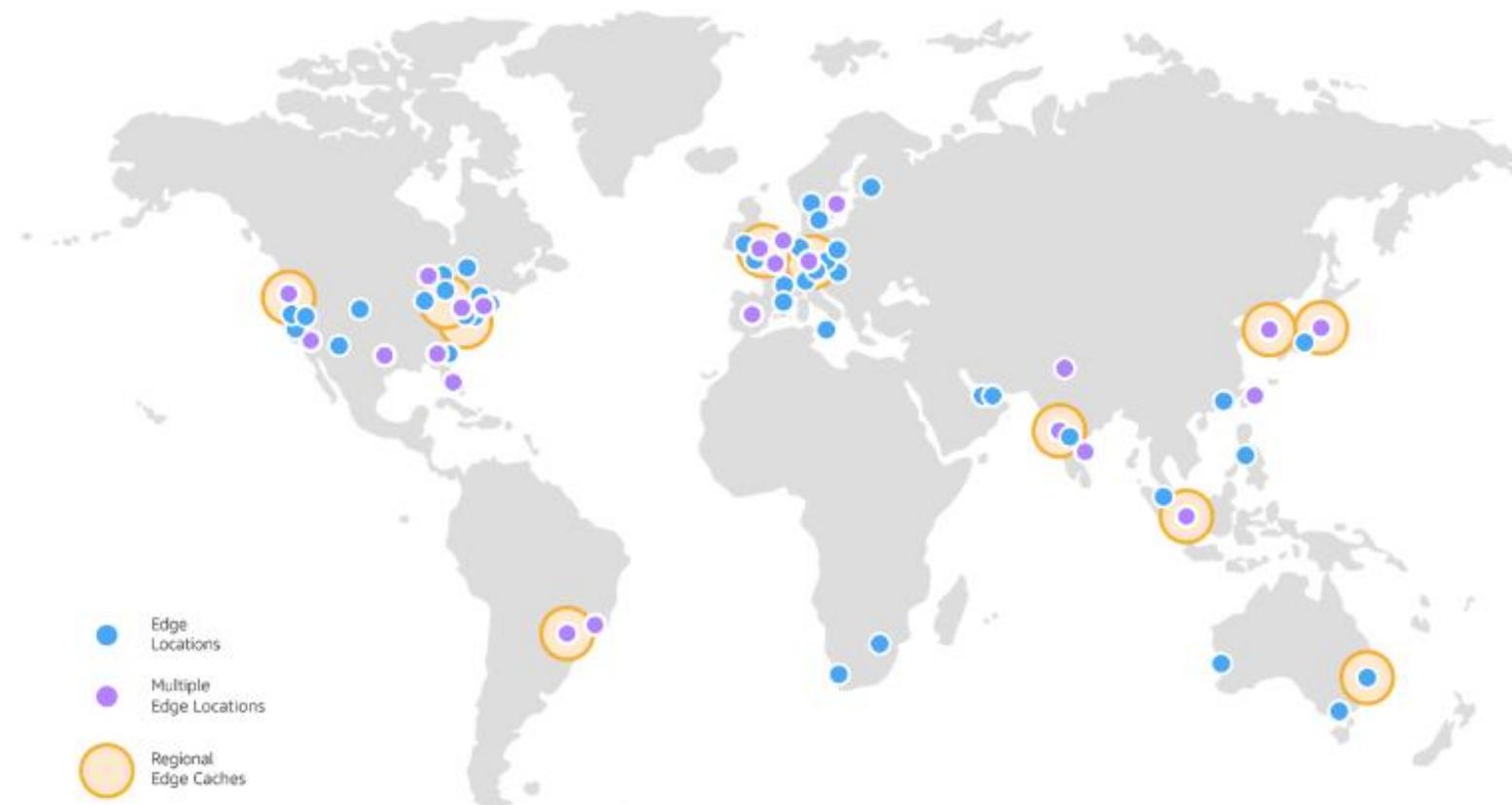


AWS Global Infrastructure



AWS Global Infrastructure

To deliver content to end users with lower latency, Amazon CloudFront uses a global network of 160 Points of Presence (149 Edge Locations and 11 Regional Edge Caches) in 65 cities across 29 countries. Amazon CloudFront Edge locations are located in:



AWS Global Infrastructure

REGIONS:

- 💡 Geographic Locations
- 💡 Consists of at least two Availability Zones (Azs)

AVAILABILITY ZONES:

- 💡 Clusters of Data Centers
- 💡 Isolated from failures in other Availability Zones

What about “Data Locality”?

- 💡 Customer chooses where to place data
- 💡 AWS regions are geographically isolated by design
- 💡 Data is not replicated to other AWS regions and doesn't move unless you choose to move it

AWS Global Infrastructure

At least 2 AZs per region.

Examples:

US East (N. Virginia)

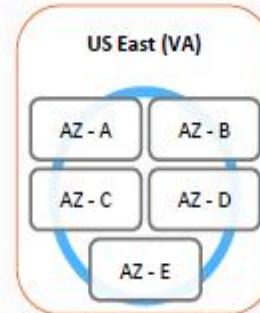
us-east-1a

us-east-1b

us-east-1c

us-east-1d

us-east-1e

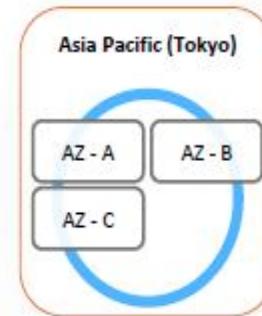


Asia Pacific (Tokyo)

ap-northeast-1a

ap-northeast-1b

ap-northeast-1c



AWS Global Infrastructure

At least 2 AZs per region.

Examples:

US East (N. Virginia)

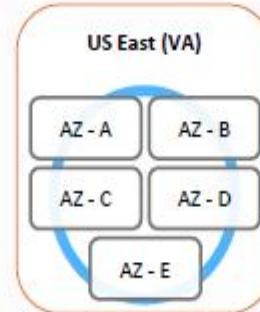
us-east-1a

us-east-1b

us-east-1c

us-east-1d

us-east-1e

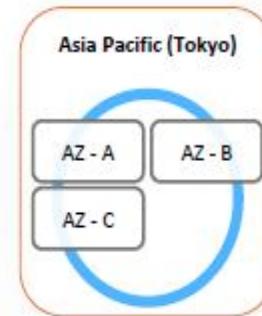


Asia Pacific (Tokyo)

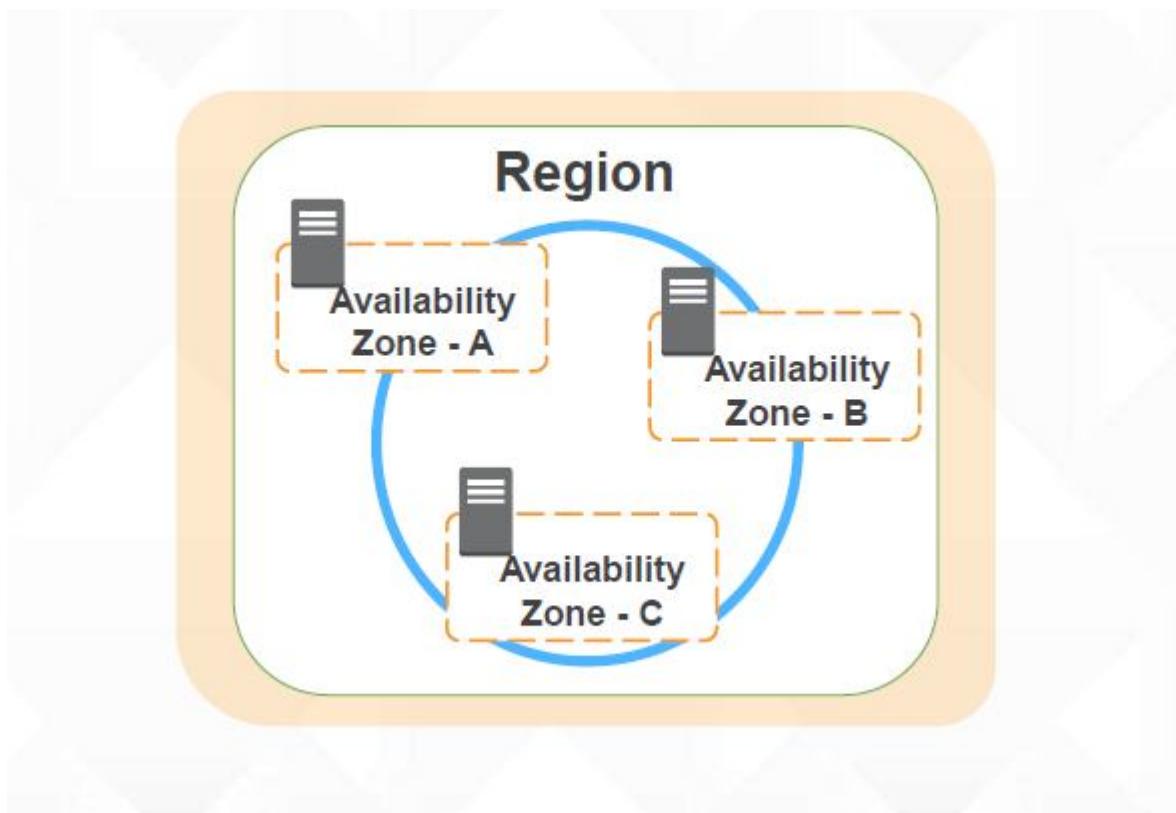
ap-northeast-1a

ap-northeast-1b

ap-northeast-1c



High Availability with Multi-AZ



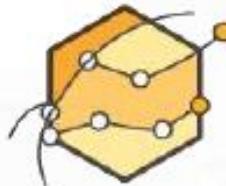
Benefits of AWS Cloud Computing



Trade capital expense for variable expense.



Benefit from massive economies of scale.



Stop guessing capacity.



Increase speed and agility.



Stop spending money on running and maintaining data centers.



Go global in minutes.

AWS Customers

Over 1 million **Active** customers in 190 countries

Enterprises



Startups



Public Sectors



Thank You!