

Course Contents

- Introduction to Amazon Web Services(AWS)
- Creating the Free Tier Account on AWS
- Navigate the AWS Management Console
- Understand the Foundational Services
 - Amazon Simple Storage Service (S3)
 - Amazon Elastic Compute Cloud (EC2)
 - Amazon Relational Database Services (RDS)
- Knowledge check
- Scenario based case study.

Amazon History











2014: Amazon

Prime Now

Launched

1994: Jeff Bezos Incorporated the Company





2005: Amazon

Publishing

Launched





2007: Kindle

Launched





2012: Amazon Game

Studios Launched







1995: Amazon.com Launched Online Bookstore







2015: Amazon Home Services & Amazon Echo Launched











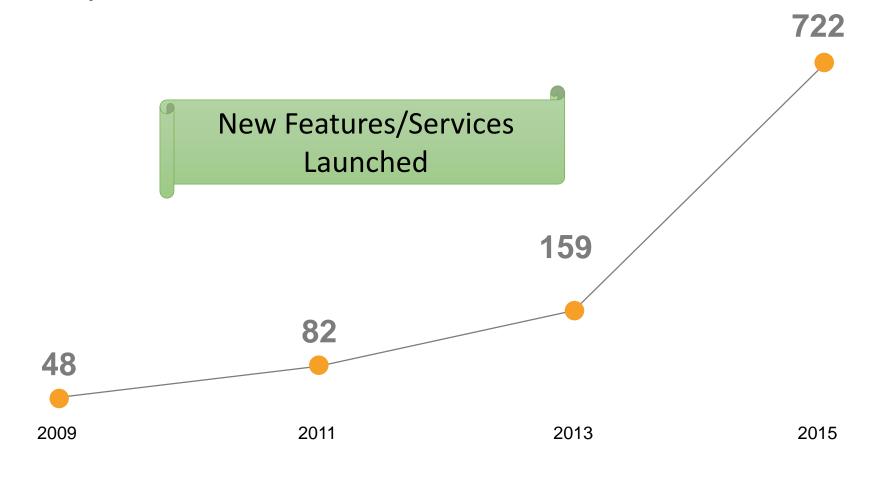


En Apple Services to build scalable, sophisticated applications.





AWS Rapid Pace of Innovation



AWS Customers

Enterprise Customers



Startup Customers



Public Sector Customers



Six Advantages & Benefits of AWS Cloud

Trade capital expense for variable expense.



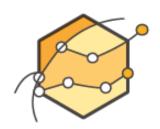
Increase speed and agility.



Benefit from massive economies of scale.



Stop spending money on running and maintaining data centers.



Stop guessing capacity.



Go global in minutes.

Gartner Magic Quadran



Worldwide

Source: Gartner (May 2015)

Gartner "Magic Quadrant for Cloud Infrastructure as a Service, Worldwide," Lydia Leong, Douglas Toombs, Bob Gill, May 18, 2015. This Magic Quadrant graphic was published by Gartner, Inc. as part of a larger research note and should be evaluated in the context of the entire report. The Gartner report is available at http://aws.amazon.com/resources/analyst-reports/. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation.

Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

Traditional Infrastructure

Amazon Web Services







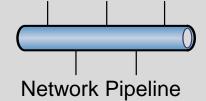
Security













Networking







3.5

Servers







Amazon EC2 Instances

DAS





RDBMS

Storage and Database



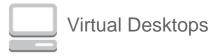






AWS Cloud Computing

Applications





Collaboration and Sharing

Platform Services

Databases	Analytics
Relational	Cluster Computing Real-time
No SQL	Data Warehouse
Caching	Data Workflows

App Services Queuing Orchestration App Streaming Transcoding Email

Management

Containers

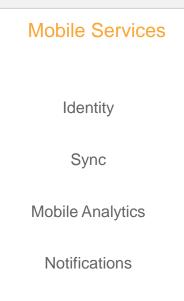
Dev/ops Tools

Resource Templates

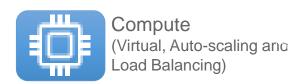
Usage Tracking

Monitoring and Logs

Deployment and



Foundation Services





Search

Networking



Storage (Object, Block and Archive)

Infrastructure

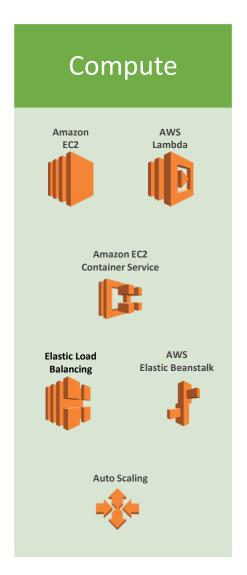
Regions

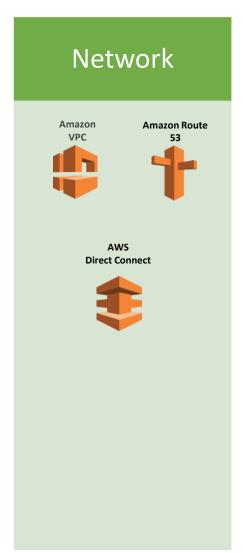
Availability Zones

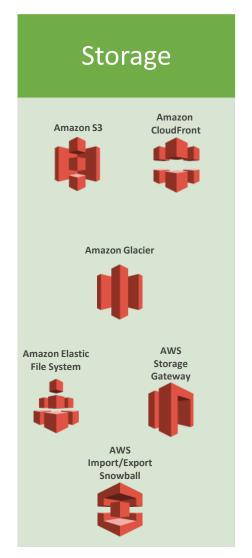


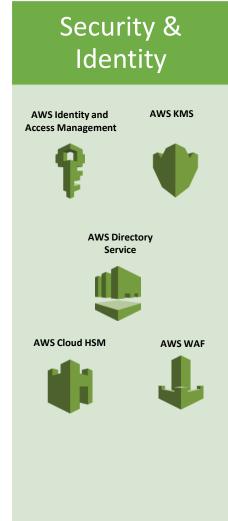
Edge Locations

AWS Foundation Services



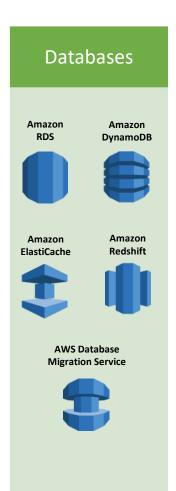


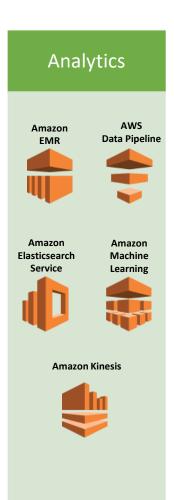


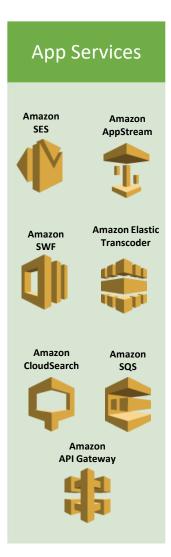


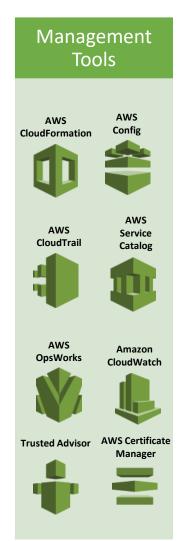


AWS Platform Services

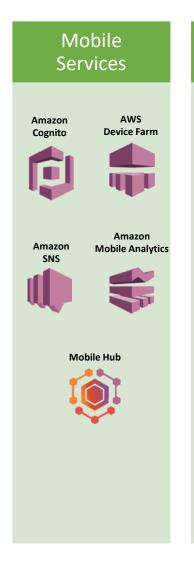














Regions

- Geographic locations
- Consists of at least two Availability Zones(AZs)

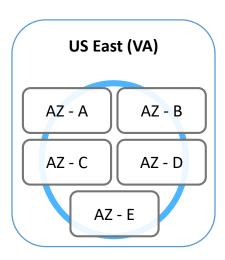
Availability Zones

- Clusters of data centers
- Isolated from failures in other Availability Zones

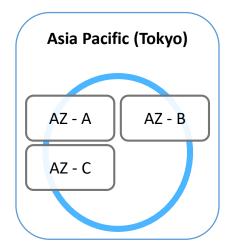


At least 2 AZs per region.

- Examples:
 - US East (N. Virginia)
 - us-east-1a
 - us-east-1b
 - us-east-1c
 - us-east-1d
 - us-east-1e

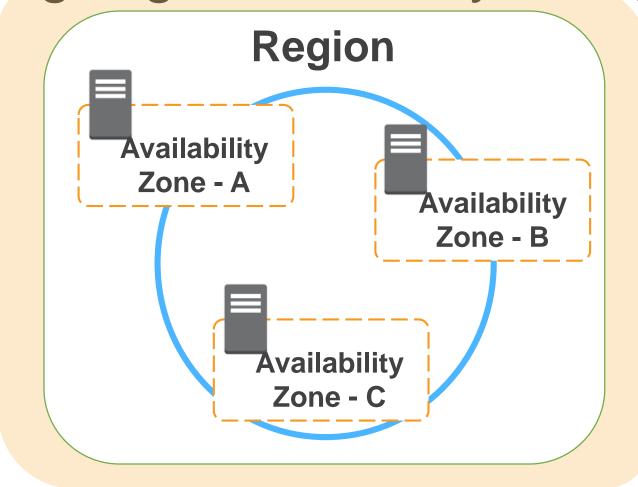


- Asia Pacific (Tokyo)
 - ap-northeast-1a
 - ap-northeast-1b
 - ap-northeast-1c



Note: Conceptual drawing only. The number of Availability Zones (AZ) may vary.

Achieving High Availability Using Multi-AZ



50+ AWS Edge Locations:

- Local points-of-presence commonly supporting AWS services like:
 - Amazon Route 53
 - Amazon CloudFront

