



AWSOME DAY

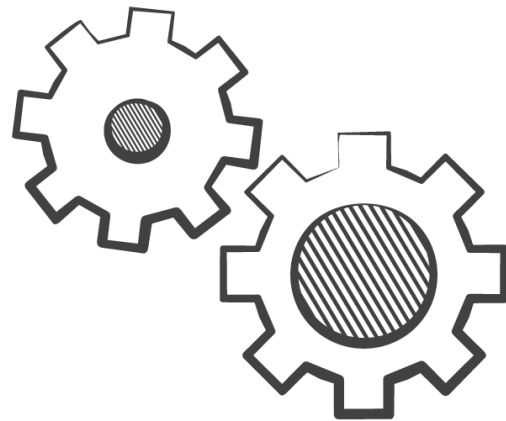
ONLINE CONFERENCE



Introduction and Logistics

Your presenters today:

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Senior Technical Trainer, AWS APAC
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Senior Technical Trainer, AWS APAC



Course Objectives

This course teaches you how to:

- Recognize terminology and concepts as they relate to the **AWS platform** and navigate the **AWS Management Console**.
- Understand the **foundational services**, including Amazon Elastic Compute Cloud (EC2), Amazon Virtual Private Cloud (VPC), Amazon Simple Storage Service (S3), and Amazon Elastic Block Store (EBS).
- Understand the **security** measures AWS provides and key concepts of AWS Identity and Access Management (IAM).
- Understand AWS **database** services, including Amazon DynamoDB and Amazon Relational Database Service (RDS).
- Understand AWS **management tools**, including Auto Scaling, Amazon CloudWatch, Elastic Load Balancing (ELB), and AWS Trusted Advisor.

Module Layout

- Module 1: AWS Introduction and History
- Module 2: AWS Infrastructure – Compute, Storage and Networking
- Module 3: Security, Identity and Access Management
- Module 4: Databases
- Module 5: AWS Elasticity and Management Tools

Module 1

Introduction and History of AWS

Amazon History



1994: Jeff Bezos incorporated the company.



2005: Amazon Publishing was launched.



2007: Kindle was launched.



2012: Amazon Game Studios was launched.



2014: Amazon Prime Now was launched.



1995: Amazon.com launched its online bookstore.



2006: Amazon Web Services (AWS) was launched.



2011: Amazon Fresh was launched.



2013: Amazon Art was launched



2015: Amazon Home Services and Amazon Echo were launched.



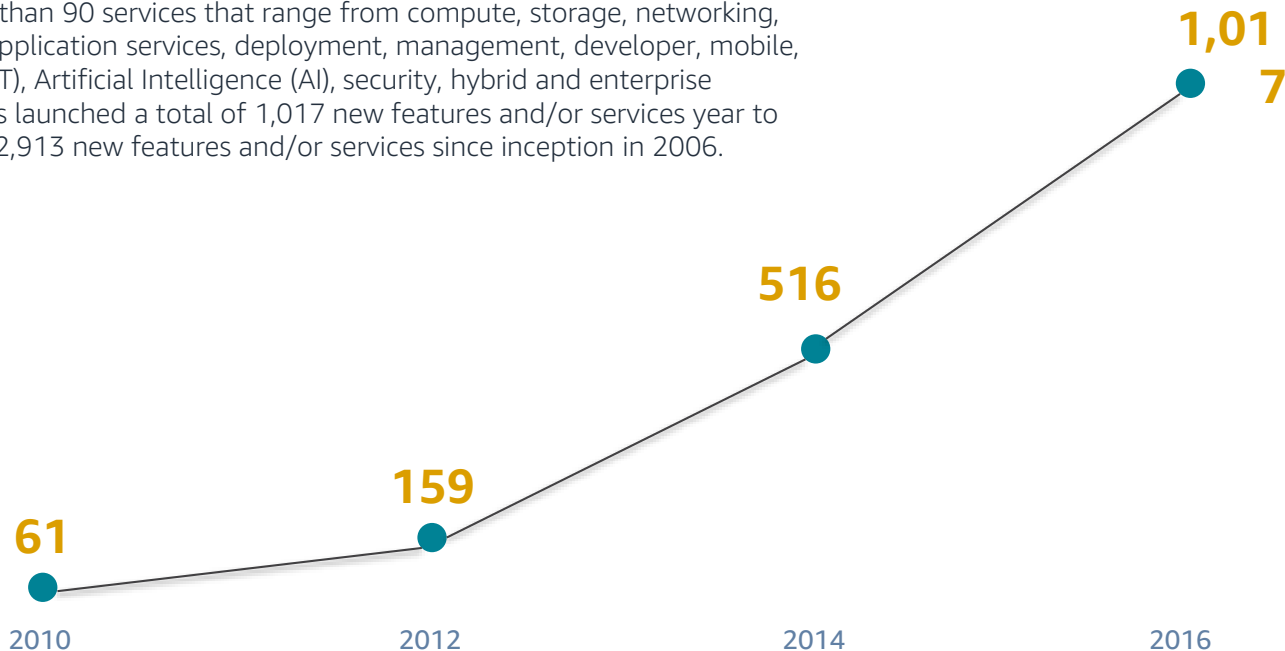
Amazon Web Services (AWS)

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



AWS Pace of Innovation

AWS has been continually expanding its services to support virtually any cloud workload, and it now has more than 90 services that range from compute, storage, networking, database, analytics, application services, deployment, management, developer, mobile, Internet of Things (IoT), Artificial Intelligence (AI), security, hybrid and enterprise applications. AWS has launched a total of 1,017 new features and/or services year to date* - for a total of 2,913 new features and/or services since inception in 2006.



* As of 1 January 2017

3,235

*As of 1 January 2017

Amazon WorkMail, GovCloud, AWS OpsWorks, Amazon Cognito, EC2 Container Registry, AWS Certificate Manager, Amazon EFS, EC2 Container Service, Import/Export Snowball, AWS CodeDeploy, AWS Storage Gateway, Amazon ElastiCache, Amazon Config, AWS Elastic Beanstalk, Amazon Kinesis, CloudHSM, Elasticsearch Service, Amazon CloudTrail, Amazon Route 53, Redshift, CodeCommit, Lambda, Identity & Access Management, Elastic Transcoder, AWS CodePipeline, AWS CloudFormation, Amazon AppStream, Amazon SES, AWS Device Farm, Dynamo DB, QuickSight, Directory Service, Amazon RDS for Aurora, AWS Data Pipeline, AWS WAF, Amazon SWF, Amazon API Gateway, AWS KMS, RDS for MariaDB, AWS Mobile Hub, Amazon SNS, WorkSpaces, Amazon Machine Learning, AWS Direct Connect, WorkDocs, AWS IoT, CloudWatch Logs, Mobile Analytics, CloudSearch, Glacier, Amazon Inspector, AWS Service Catalog, AWS Import/Export

AWS Customers

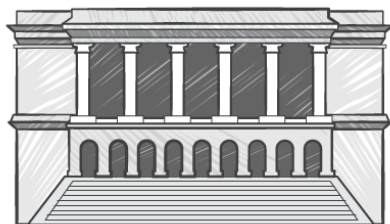
Enterprise Customers

Amazon Web Services delivers a mature set of services specifically designed for the unique security, compliance, privacy, and governance requirements of large organizations.



Public Sector

Paving the way for innovation and supporting world-changing projects in government, education and nonprofit organizations.



Startups

From the spark of an idea, to your first customer, to IPO and beyond, let Amazon Web Services help you build and grow your startup.



Advantages and Benefits of AWS Cloud Computing



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.

AWS Positioned as a Leader

in the Gartner Magic Quadrant for Cloud Infrastructure as a Service, Worldwide*

AWS is positioned
highest in execution
and furthest in
vision within the
Leaders Quadrant

Figure 1. Magic Quadrant for Cloud Infrastructure as a Service, Worldwide



Source: Gartner (August 2016)

*Gartner, Magic Quadrant for Cloud Infrastructure as a Service, Worldwide, Leong, Lydia, Petri, Gregor, Gill, Bob, Dorosh, Mike, August 3 2016

This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from AWS : <http://www.gartner.com/doc/reprints?id=1-2G2O5FC&ct=150519&st=sb>

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AWS Core Infrastructure and Services

Traditional Infrastructure



Firewalls



ACLs



Administrators

Security

Amazon Web Services



Security Groups



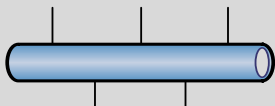
Network ACLs



AWS IAM



Router



Network Pipeline



Switch

Networking



ELB



VPC



On-Premises Servers

Servers



AMI



Amazon EC2 Instances



DAS



SAN



NAS



RDBMS

Storage
and
Database



Amazon
EBS



Amazon
EFS



Amazon
S3



Amazon
RDS

AWS Cloud Computing

Applications



Virtual
Desktops



Collaboration and Sharing

Platform Services

Databases

Relational

NoSQL

Caching

Analytics

Cluster
Computing

Real-time

Data
Warehouse

Data
Workflows

App Services

Queuing
Orchestration

App
Streaming

Transcoding

Email

Search

Deployment and Management

Containers

Dev/ops Tools

Resource Templates

Usage Tracking

Monitoring and Logs

Mobile Services

Identity

Sync

Mobile Analytics

Notifications

Foundation Services



Compute
(Virtual, Auto-scaling and
Load Balancing)



Networkin
g



Storage
(Object, Block and Archive)

Infrastructure

Regions










Availability Zones



Edge Locations

AWS Foundation Services






Compute

-  Amazon EC2
-  Amazon EC2 Container Registry
-  Amazon EC2 Container Service
-  Amazon Lightsail
-  Amazon VPC
-  AWS Batch
-  AWS Elastic Beanstalk
-  AWS Lambda
-  Elastic Load Balancing

Network

-  Amazon CloudFront
-  Amazon Route 53
-  Amazon VPC
-  AWS Direct Connect
-  Elastic Load Balancing



Storage

-  Amazon EFS
-  Amazon Glacier
-  Amazon S3
-  AWS Snowball
-  AWS Storage Gateway






































Security & Identity

-  Amazon Inspector
-  AWS Artifact
-  AWS Certificate Manager
-  AWS CloudHSM
-  AWS Directory Service
-  IAM
-  AWS KMS
-  AWS Organizations
-  AWS Shield
-  AWS WAF

Applications

-  Amazon WorkDocs
-  Amazon WorkMail
-  Amazon AppStream
-  Amazon WorkSpaces

AWS Platform Services

Databases	Analytics	Application Services	Management Tools	Developer Tools	Mobile Services	Internet of Things
 Amazon DynamoDB	 Amazon Athena	 Amazon API Gateway	 Amazon CloudWatch	 AWS CodeBuild	 Amazon API Gateway	 AWS IoT
 Amazon ElastiCache	 Amazon CloudSearch	 Amazon AppStream 2.0	 AWS CloudFormation	 AWS CodeCommit	 Amazon Cognito	 AWS Greengrass
 Amazon RDS	 Amazon EMR	 Amazon Elastic Transcoder	 AWS CloudTrail	 AWS CodeDeploy	 Amazon Mobile Analytics	
 Amazon Redshift	 Amazon ES	 Amazon SWF	 AWS Config	 AWS CodePipeline	 Amazon Pinpoint	
	 Amazon Kinesis	 AWS Step Functions	 AWS Managed Services	 AWS X-Ray	 AWS Device Farm	
	 Amazon QuickSight		 AWS OpsWorks		 AWS Mobile Hub	
	 Amazon Redshift		 AWS Service Catalog			
			 AWS Trusted Advisor			

AWS Global Infrastructure

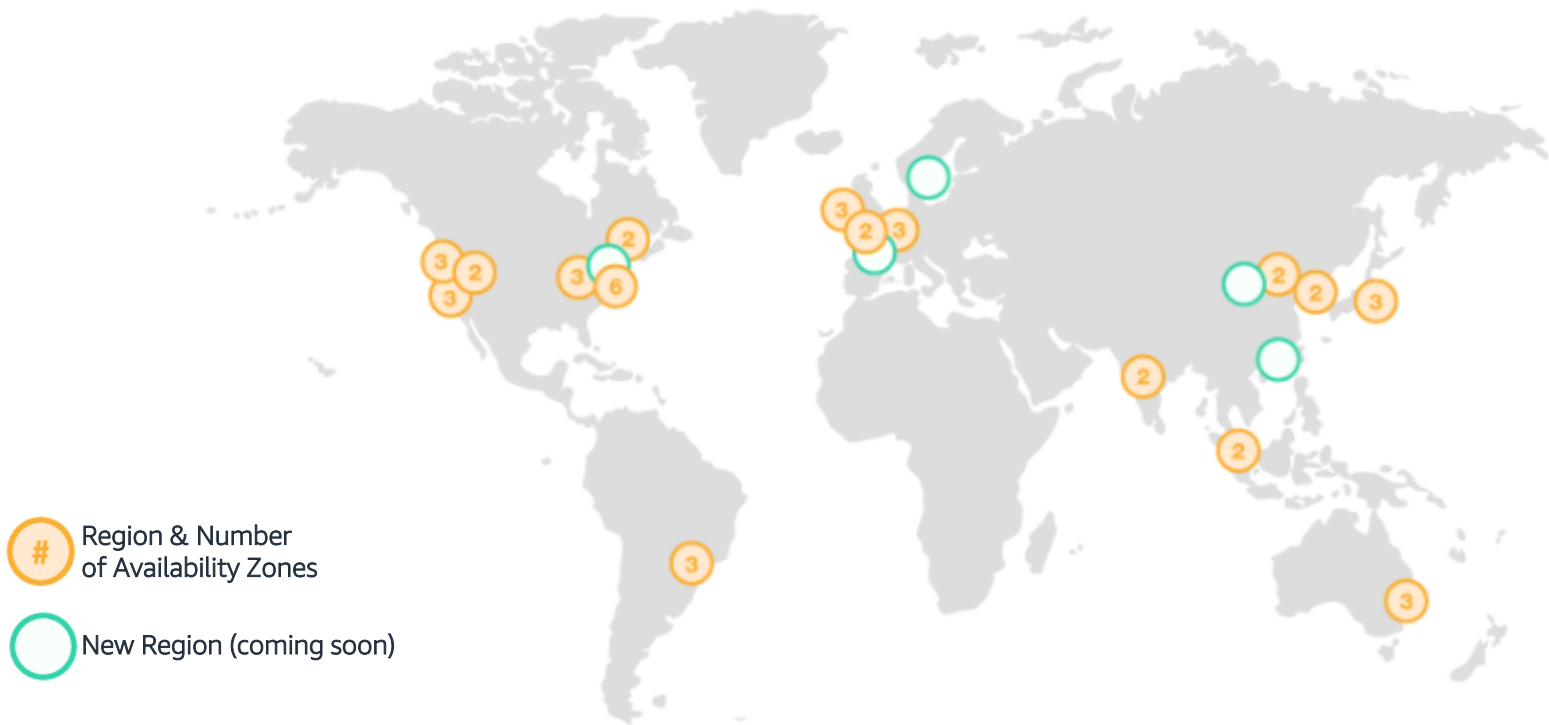
Regions

- Geographic locations
- Consist of **at least two** Availability Zones

Availability Zones

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

AWS Global Infrastructure



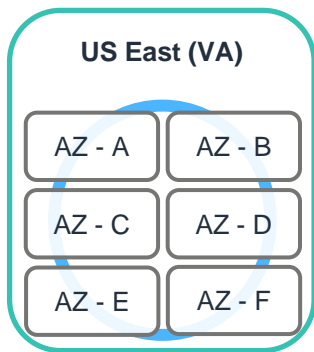
View the latest Global Infrastructure : <http://aws.amazon.com/about-aws/global-infrastructure>

AWS Global Infrastructure

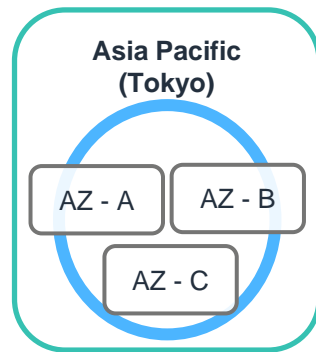
At least 2 Availability Zone per region.

Examples:

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

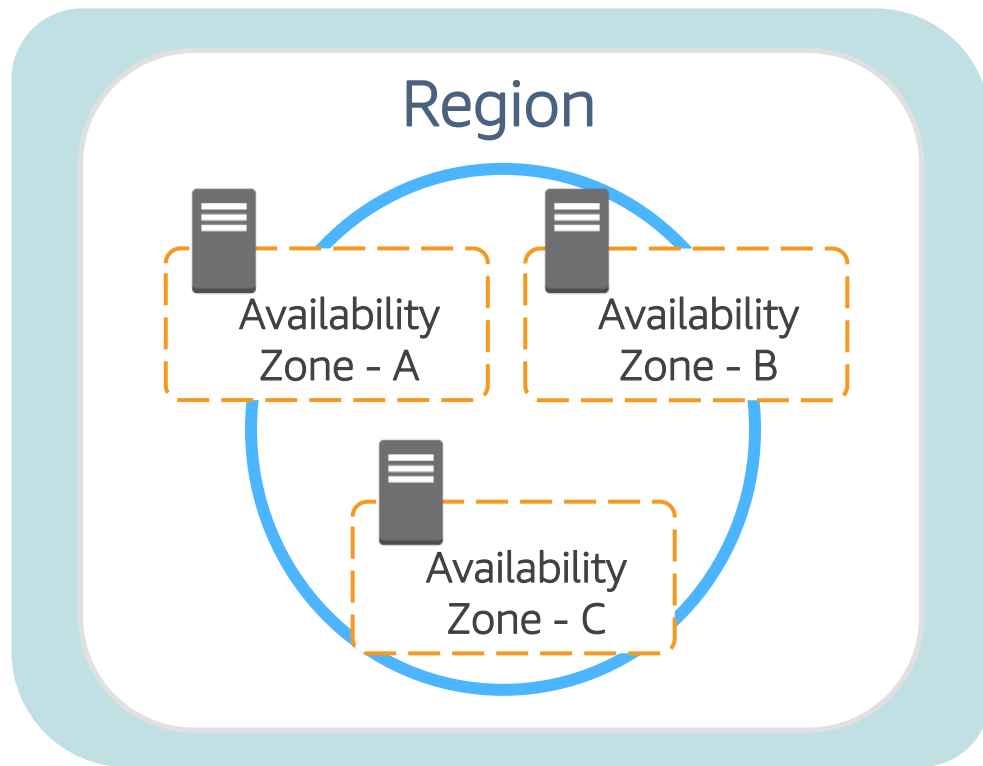


- Asia Pacific (Tokyo)
 - ap-northeast-1a
 - ap-northeast-1b
 - ap-northeast-1c



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

High Availability Using Multi-AZ Deployments



AWS Global Infrastructure – Edge Locations

- 80+ edge locations
- Local points of presence that support AWS services like:



Amazon Route 53



Amazon CloudFront



AWS WAF



AWS Shield

View the latest Global Infrastructure : <http://aws.amazon.com/about-aws/global-infrastructure>

AWS Management Console Demonstration

Learn from AWS experts. Advance your skills and knowledge. Build your future in the AWS Cloud.



Digital Training

Free, self-paced online
courses built by AWS
experts



Classroom Training

Classes taught by
accredited AWS instructors



AWS Certification

Exams to validate
expertise with an industry-
recognized credential

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