



# aws



A summary of the services AWS has to offer., and their implementation an application.

## Recall

- What is AWS?
- What are the primary categories of AWS services?
- What can these services be used in conjunction for?

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## Overview

AWS Global Datacenters - These are located in AWS availability zones, which are located in AWS regions around the world, and act as a hub for the AWS services in that area.

Regions are composed of Availability Zones.

- Regions = Independent geographical area
- Availability Zone = Multiple isolated locations / data centers within a region.

# Scope of AWS

AWS Accounts (IAM Users) have access to all regions, which respectively have access to different availability zones (AZ). Different services are connected to these different levels of scope, and cannot be scoped upwards.

- Billing IAM, Route53 are examples of Account level services, which can be accessed in any region or AZ.
- S3, DynamoDB are examples of region level services, and can only be accessed from AZs within that region.
- EC2, RDS, EBS are examples of AZ level services, locked to the AZ they are created for.

## Compute and Analytics Services

### EC2

- Elastic Compute Cloud

### Auto Scaling

- EC2 Horizontal scaling

### Lambda

- Serverless Computing

### ELB

- Elastic Load Balancer

### ECS

- Elastic Container Service

### EMR

- Elastic Mapreduce

### Kinesis

## Storage and Database Services

### EBS

- Elastic Block Storage

### S3

- Simple Storage Service

### EFS

- Elastic File System

### RDS

- Relational Database Service

### DynamoDB

- AWS NoSQL Database

### Redshift

- Data Warehousing

### Elasticaache

- Real time data/video streaming

Athena

- Interactive Query Engine

QuickSight

- Business Intelligence

Glue

- ETI Service

- Fast and Flexible caching

## Network and Management Services

VPC

- Virtual Private Cloud

Route53

- DNS Service

Direct Connect

- Dedicated Network

CloudFront

- Content Delivery Network

CloudWatch

- Application and Infrastructure Monitoring

CloudFormation

- Provision Infrastructure as a Code

Elastic Beanstalk

- Application Orchestration Service

Opsworks

## Application and Development Services

API Gateway

- Managed REST and Websocket APIs

SQS

- Simple Queue Service

SNS

- Simple Notification Service

SES

- Simple Email Service

Cognito

- User Management for Web and Mobile Apps

CodeCommit

- Hosted Git Repository by AWS

CodeBuild

- Continuous Integration Service

- Infrastructure Configuration Management

CodeDeploy

- Automated Deployments

Code Pipeline

- Continuous Delivery Service


Code Star

- Develop, Build, Deploy, Manage, and Track

## Fitting Services into Architecture (SM App)

### Introduction to AWS Services

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 <https://www.youtube.com/watch?v=Z3SYDTMP3ME&list=PLYFNQ7RWsZGYITIIVlhQCJGafgwz617PD&index=6>

