

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?

Recall

Overview

Scope of AWS

Compute and Analytics Services

Storage and Database Services

Network and Management Services

Application and Development Services

Fitting Services into Architecture (SM App)

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.

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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

Elasticache

Real time data/video streaming

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• Interactive Query Engine

QuickSight

Athena

• 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 Websocker 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

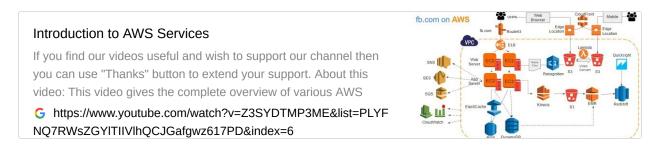
Code Pipeline

Continuous Delivery Service

Code Star

 Develop, Build, Deploy, Manage, and Track

Fitting Services into Architecture (SM App)



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