

## Related Roadmaps

- ✓ Backend Roadmap
- ✓ DevOps Roadmap

Find the detailed version of this roadmap  
Along with resources and more roadmaps

<https://roadmap.sh>

## Note

AWS has lots of services. You don't need to be proficient in all that they have to offer. This roadmap only covers an opinionated list of services to help you get started.

### Step 1 - Essentials

- IAM - Access Control for all services
- VPC - Networking Layer
- EC2 - Compute

### Step 2 - Learn these next

- S3 - Storage
- SES - Emails
- Route53 - DNS
- Cloudwatch - Metrics, Alarms, Logs etc
- Cloudfront - CDN

### Step 3 - Pick these after

- RDS - Managed Databases
- DynamoDB - NoSQL Storage
- ElastiCache - Redis/Memcached
- ECS - Containers
- EKS - Kubernetes

### Step 4 - Serverless

- Lambda
- ECS Fargate

Best way to learn? Make a simple app and use the services listed above for deployment.

# AWS

Introduction

What is Cloud Computing?

IaaS vs PaaS vs SaaS

Public vs Private vs Hybrid Cloud

Introduction AWS

AWS Global Infrastructure

Shared Responsibility Model

Well Architected Framework

## Start with Essential Services

EC2

VPC

Instance Types

CPU Credits

Storage / Volumes

Keypairs

Elastic IP

User Data Scripts

Purchasing Options

CIDR Blocks

Subnets

Route Tables

Security Groups

Internet Gateway

NAT Gateway

Private Subnet

Public Subnet

Auto-Scaling

AMIs

Launch Templates

Auto-Scaling Groups

Scaling Policies

Elastic Load Balancers

Identity-Based

Resource-Based

Instance Profiles

Assuming Roles

Policies

Users / User Groups

Roles

IAM

S3

SES

Route53

Cloudwatch

Buckets / Objects

Bucket / Object Lifecycle

Storage Types

Standard

S3-IA

Glacier

Sandbox / Sending Limits

Identity Verification

DKIM Setup

Feedback Handling

Configuration Sets

Sender Reputation

Dedicated IP

Hosted Zones

Routing Policies

Healthchecks

Private

Public

Metrics

Events

Logs

Distributions

Policies

Invalidations

Cloudfront

Quotas

ElastiCache

DynamoDB

RDS

ECR

ECS

Clusters / ECS Container Agents

Tasks

Services

Launch Config / Autoscaling Groups

Fargate

Tables / Items / Attributes

Primary Keys / Secondary Indexes

Data Modeling

Streams

Capacity Settings

Limits

Backup / Restore

DynamoDB Local

General Purpose

Provisioned IOPS

Magnetic

DB Instances

Storage Types

Backup / Restore

EKS

Lambda

Creating / Invoking Functions

Layers

Custom Runtimes

Versioning / Aliases

Event Bridge / Scheduled Execution

Cold Start and Limitations

API Gateway

Lambda@Edge

Keep Learning