

# AWS Services for Full Stack Developers

## 1. Amazon EC2 (Elastic Compute Cloud)

Used to host backend servers or deploy frontend apps.

Example: Deploy a Node.js backend server on an EC2 Ubuntu instance.

## 2. Amazon S3 (Simple Storage Service)

Used to store static files like images, videos, frontend apps.

Example: Host a ReactJS app on S3 with static website hosting.

## 3. AWS Lambda

Used for running backend code without managing servers.

Example: Create a Lambda function triggered by API Gateway to handle contact form submissions.

## 4. Amazon RDS (Relational Database Service)

Manages MySQL, PostgreSQL, etc., databases in the cloud.

Example: Connect your Node.js backend with RDS MySQL DB for storing user data.

## 5. Amazon DynamoDB

NoSQL database for fast and scalable apps.

Example: Use it to store session data or user profiles in a serverless app.

## 6. Amazon API Gateway

Creates and manages secure REST APIs.

Example: Use it to expose your Lambda functions via HTTP endpoints.

## 7. AWS CloudFront

CDN to deliver static content quickly.

Example: Serve your S3-hosted frontend globally using CloudFront.

## 8. Amazon IAM (Identity and Access Management)

Used for securing and managing permissions.

Example: Create roles and policies to allow Lambda access to S3.

## 9. AWS CloudWatch

Monitor AWS services and log application output.

Example: Use CloudWatch to debug and monitor your Lambda functions.

## 10. AWS CodePipeline & CodeDeploy

Used for CI/CD pipelines.

Example: Automate deployment of your full-stack app from GitHub to EC2 or S3.