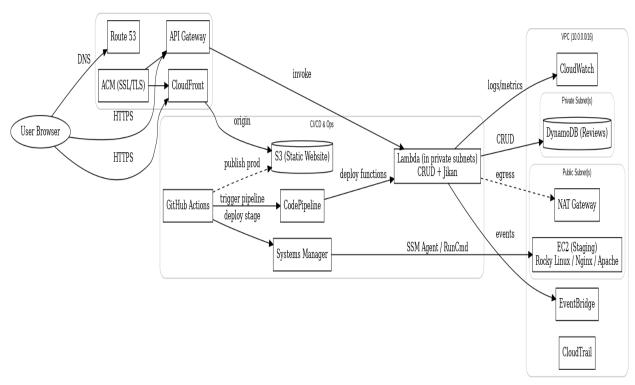# (Andos Reviews) Cloud Engineering Map

Andos Reviews – https://www.andosreviews.com

Core AWS Services

- IAM – User, role, and least-privilege policy management
- Route 53 – Domain and subdomain management
- ACM – SSL/TLS certificates for HTTPS endpoints
- CloudFront – CDN for global static content delivery
- Amazon S3 – Static website hosting integrated with CloudFront
- API Gateway – HTTP API frontend for serverless functions
- AWS Lambda – Event-driven compute for CRUD operations and Jikan API integration
- Amazon DynamoDB – Scalable persistence for reviews data
- Amazon EC2 – Staging environment with Rocky Linux, Nginx, Apache
- Systems Manager (SSM) – Remote management and automation
- CloudWatch – Centralized logging, monitoring, and metrics
- CloudTrail – Auditing and governance of AWS API activity
- Security Groups & Route Tables – Network security and routing
- NAT Gateway – Secure egress for private subnet workloads

DevOps & Automation

- Terraform – Infrastructure as Code for networking, Lambda, and API Gateway
- GitHub – Source control and versioning
- GitHub Actions – CI/CD pipelines for EC2 staging and S3 production deployments
- AWS CodePipeline – Automated deployment workflows directly updating Lambda functions
- Docker – Containerized applications (Flask, Nginx)
- Nginx & Apache – Web server configuration in VM/EC2 environments

Environments & Tooling

- Rocky Linux (minimal ISO) – Secure enterprise-style VM testing
- Ubuntu VM – Lightweight environment for Terraform and Docker practice
- Jikan API – External data integrated with Lambda functions

Project Overview

Built a full-stack hybrid cloud project that hosts a static website on S3 and combines both serverless services and traditional servers. The project showcases networking, security, serverless APIs, event-driven design, monitoring, CI/CD automation with Terraform and GitHub Actions, and containerization with Docker, using AWS services and open-source tools.

Live site: https://www.andosreviews.com