AWS Architecture Overview

This document provides an overview of the architecture for the Farmcloud project deployed on Amazon Web Services (AWS).

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Architecture Overview

Describe the high-level architecture of your project on AWS. Include key components, services, and their interactions. Provide a brief overview of how data flows through the system.

Components

List and briefly describe the main components of your AWS architecture. Include services such as:

1. **Amazon EC2 (Elastic Compute Cloud):**

   - Virtual servers in the cloud.
   - Launch instances with varying compute capacity.

2. **Amazon ECS (Elastic Container Service):**

   - Manage Docker containers in a scalable and highly available environment.
   - Define and run containerized applications using ECS.

3. **Amazon ECR (Elastic Container Registry):**

   - Store, manage, and deploy Docker container images.
   - Securely host and scale your containerized applications.

4. **Amazon RDS (Relational Database Service):**

   - Fully managed relational database service.
   - Choose from various database engines (e.g., MySQL, PostgreSQL, SQL Server).

5. **Amazon S3 (Simple Storage Service):**

   - Object storage service to store and retrieve any amount of data.
   - Used for static assets, backups, or any binary data.

6. **Amazon EBS (Elastic Block Store):**

- Persistent block storage for use with Amazon EC2 instances.
- Provides scalable and high-performance storage volumes.
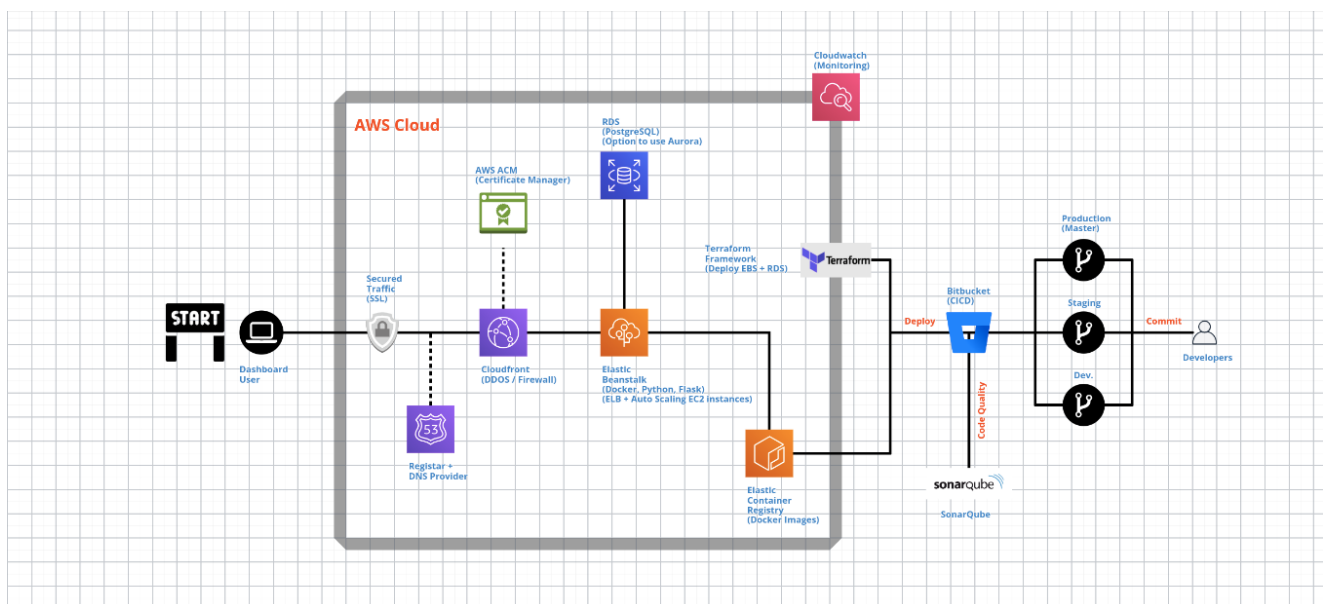
7. **Amazon Route 53:**

- Scalable domain name system (DNS) web service.
- Register and manage domain names and perform DNS routing.

8. **Amazon CloudFront:**

- Global content delivery network (CDN) service.
- Accelerates the delivery of your web content, including media files, images, and dynamic content.

9. **Etc.**

- Include any other components relevant to your architecture.

Link of infrastructure :- click here

Deployment

Explain how to deploy your application on AWS. Include deployment scripts, commands, or configuration files. Specify any considerations for different environments (e.g., development, staging, production).

Monitoring and Logging

Monitoring Using AWS CloudWatch