**Project Name: Pie-Board**

**Project Scope:** Continuous deployment with Amazon Elastic Container Service (ECS) using AWS Fargate, by using Farget you don't need to manage servers, handle capacity planning, or isolate container workloads for security. Fargate handles the infrastructure management aspects of your workload. You can schedule the placement of your containers across your cluster based on your resource needs, and availability requirements.

ECS manages [containers](https://www.techtarget.com/searchitoperations/definition/container-containerization-or-container-based-virtualization) and lets developers run applications in the cloud without having to configure an environment for the code to run in. It enables developers with AWS accounts to deploy and manage scalable applications that run on groups of servers called [clusters](https://searchdomino.techtarget.com/definition/application-clustering) through [API](https://www.techtarget.com/searchapparchitecture/definition/application-program-interface-API) calls and [task](https://www.techtarget.com/whatis/definition/task) definitions. Amazon ECS is a scalable service accessible through the [AWS Management Console](https://www.techtarget.com/searchaws/definition/AWS-Management-Console).

**Infrastructure:** Deployed by using Terraform (Infrastructure as a code) on AWS.

**Services used:**

1. Secret Manager for storing secret value like Database password
2. Virtual private cloud (VPC) for the complete Infra of Pie-Board
3. RDS with Postgres as a database engine
4. Virtual private network (VPN) to access private resources
5. Redis elastic cache for cache storing
6. Elastic container registry (ECR) to store docker images
7. Application Load balancers to handle traffic to applications
8. Security groups for allowing particular Ips
9. ECS task definition and ECS Clusters for micro services