**Project Name: RIA**

**Project Scope:** Creation of continuous integration and continuous delivery (CI/CD) pipeline that automatically builds and deploys a Java application to an Amazon Elastic Kubernetes Service (Amazon EKS) cluster on the Amazon Web Services (AWS) Cloud. On every new change applied to source code will deploy new Java application on EKS.

**Infrastructure:** Manually deployed using AWS console

**Services used:**

1. Secret Manager for storing secret value like Database password with rotation
2. Virtual private cloud (VPC) for the complete Infra of RIA
3. Cluster based Postgres RDS as a database
4. Virtual private network (VPN) to access private resources
5. Application Load balancers to handle traffic of applications
6. Security groups for allowing particular Ips
7. Redis Cluster as a cache tool
8. Code pipeline for continuous deployment
9. EKS for application deployment
10. WAF as a security tool
11. API gateways
12. Amplify for frontend web