**Project Name: PaykickStart**

**Project Scope:** A wallet based api is deployed in this project on AWS infrastructure. In the project we have deployed API as backend and CloudFront with S3 for frontend. In Frontend we have a lambda functions also attached for dynamic URL rewrite.

For backend we have deployed API in scalable architecture using EC2. Each time whenever there is spike in the website autoscaling is triggering and deploying new server to handle the request. Loadbalancer is also in use for managing the load balance between servers. For the network and application security we have used WAF with custom rules.

**Infrastructure:** Manually deployed using AWS console

**Services used:**

1) Secrets Manager

2) EC2 as a backend server

3) Redis Cluster as a cache tool

4) Autoscaling and Application load balancer for handling/managing traffic

5) RDS with mssql as a database engine

6) Queue server for handling queue

7) Mongodb to handle database for Queue server

8) Route53 as a DNS

9) Aws cloudfront and S3 bucket for static frontend hosting

10) AWS backup as a DR tool

11) Guard Duty , Inspector , WAF as a security tools

12) Cloudwatch and Wazuh as monitoring tools

13) S3 as storage and backup