



# Wallet Guru Platform Security Framework

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## 1. Introduction

This document outlines the security framework implemented in the Wallet Guru platform, with a primary objective to ensure the confidentiality, integrity, and availability of user and transaction data. All security measures align with industry best practices and regulatory standards.

## 2. Data Encryption

- All user and transactional databases are encrypted using Advanced Encryption Standard (AES-256).
- This encryption is enforced both at rest and in transit.
- Data in Amazon DynamoDB is protected using AWS Key Management Service (KMS) for centralized key control.

## 3. Cloud Infrastructure Security

- The platform is deployed on AWS Elastic Kubernetes Service (EKS), with clusters operating within private subnets.
- This network design restricts direct public internet access to the compute resources.
- AWS Web Application Firewall (WAF) is configured to protect the Wallet Guru portal and its public APIs against common threats such as SQL injection and cross-site scripting (XSS).

## 4. Key Management

- AWS Key Management Service (KMS) is used for managing encryption keys used to secure data in DynamoDB.
- Integration with AWS KMS ensures that encryption keys are rotated and access-controlled according to best practices.

## 5. Optional Security Enhancements

- Amazon GuardDuty is enabled as an optional managed threat detection service.



- GuardDuty continuously monitors for malicious activity, unauthorized behavior, and potential threats across AWS accounts and workloads.

## **6. Summary**

The Wallet Guru security framework provides strong protection for all user and transactional data through the use of industry-standard encryption, AWS-native security services, and a tightly secured cloud infrastructure. This layered approach ensures that security remains resilient against both external and internal threats.