









"Legend Guardian Agent - System Architecture"

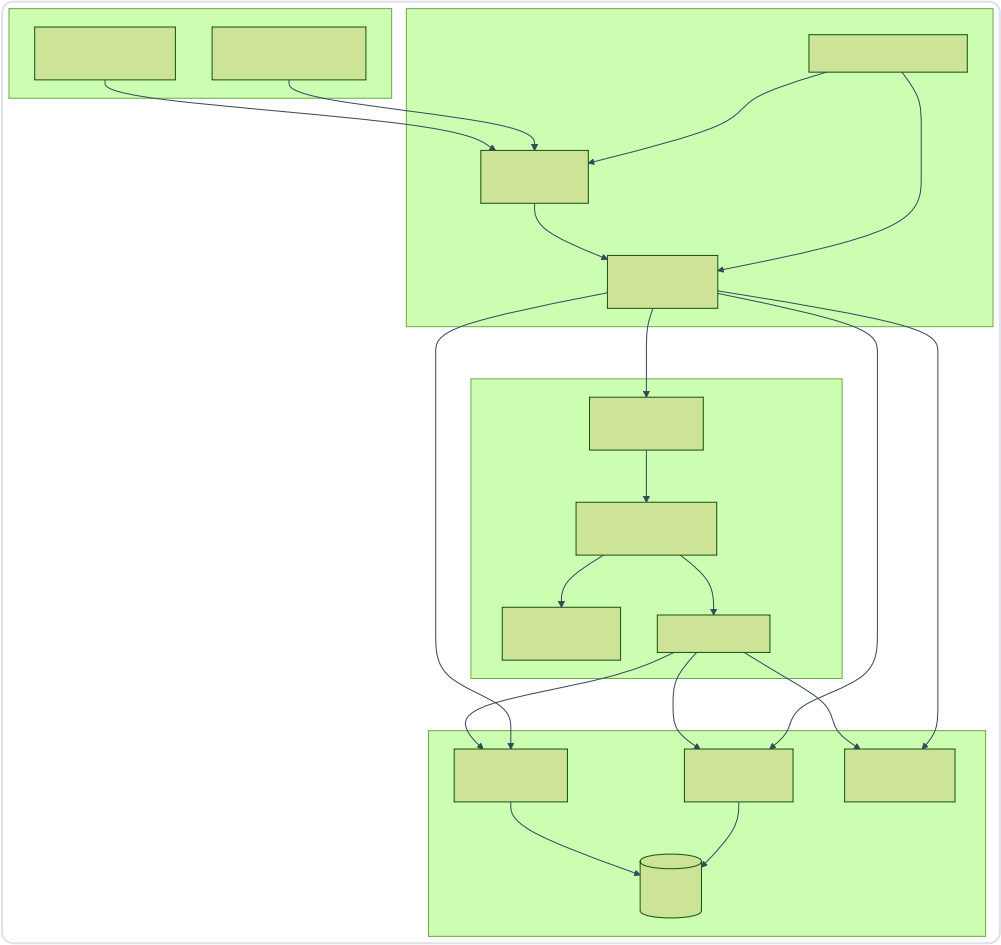
"Legend Guardian Agent Team"

Tue Aug 19 11:06:13 AEST 2025

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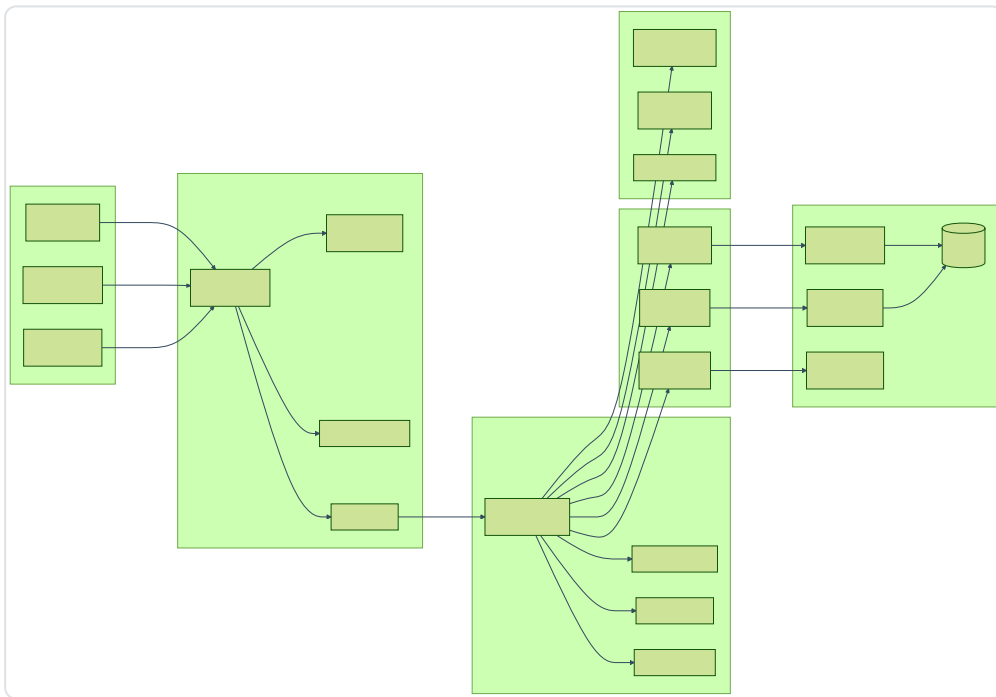
Legend Guardian Agent - System Architecture

High-Level System Architecture



Architecture Diagram

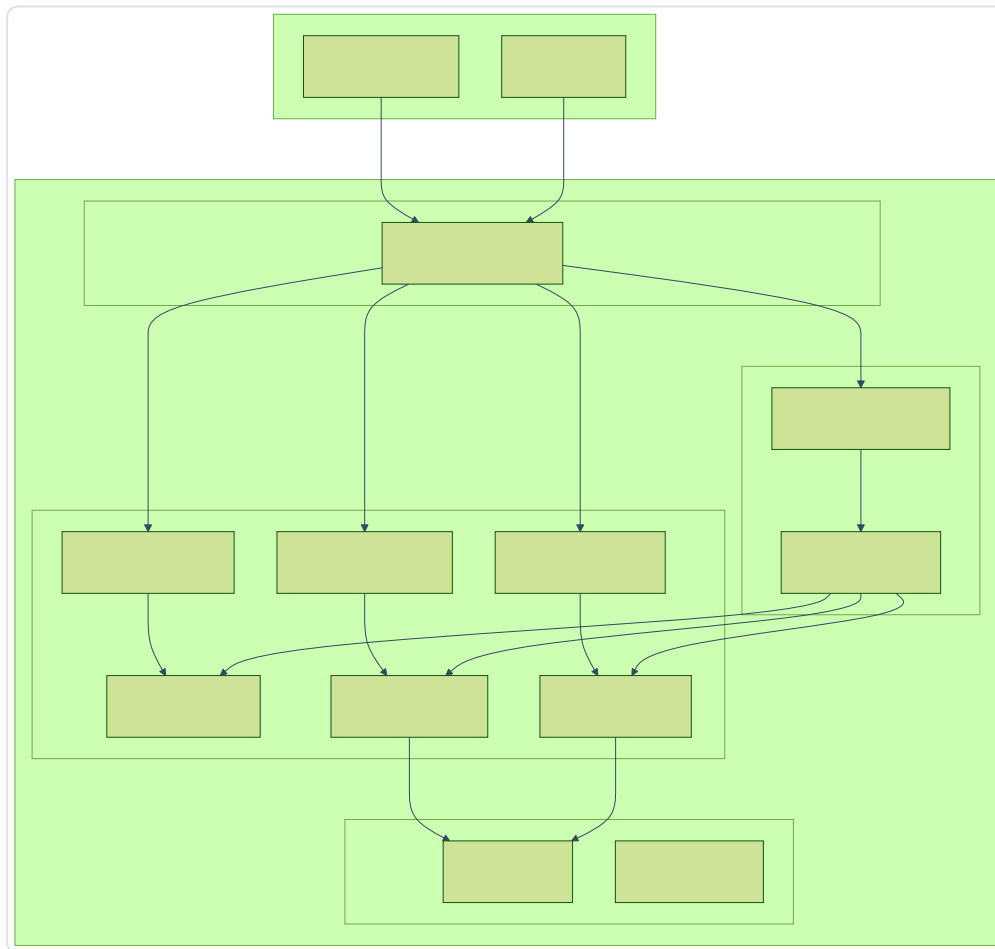
Detailed Component Architecture



Architecture Diagram

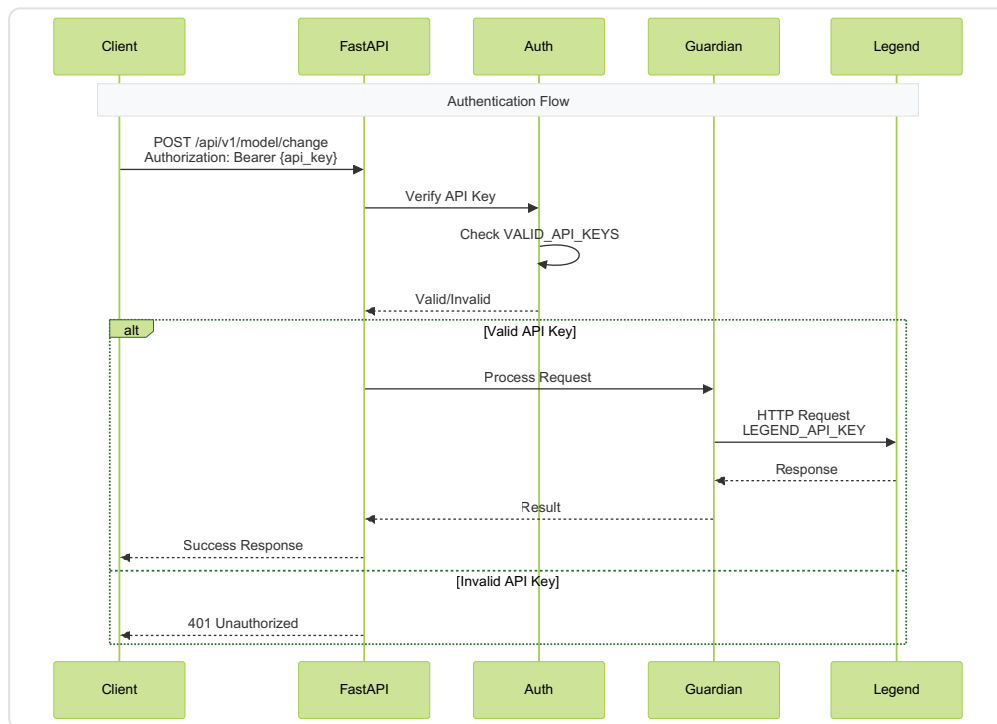


Network Architecture & Ports



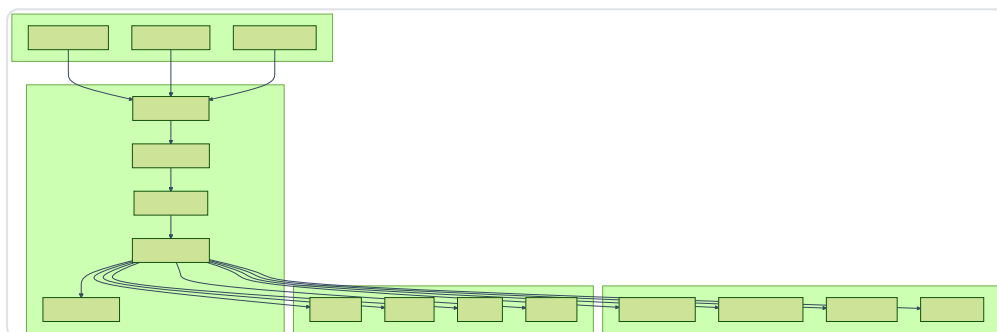
Architecture Diagram

Authentication & Security Architecture



Architecture Diagram

Data Flow Architecture



Architecture Diagram

Component Details

Legend Guardian Agent

- **Port:** 8000
- **Protocol:** HTTP/HTTPS
- **Framework:** FastAPI (Python)
- **Authentication:** Bearer Token (API Keys)
- **Features:** Model monitoring, validation, automation

Legend Engine

- **Port:** 6060
- **Protocol:** HTTP
- **Purpose:** Model execution and validation
- **Database:** MongoDB (Port 27017)

Legend SDLC

- **Port:** 7070
- **Protocol:** HTTP
- **Purpose:** Source control and lifecycle management
- **Database:** MongoDB (Port 27017)

Legend Studio

- **Port:** 9000
- **Protocol:** HTTP
- **Purpose:** Web-based modeling interface
- **Authentication:** GitLab OAuth

MongoDB

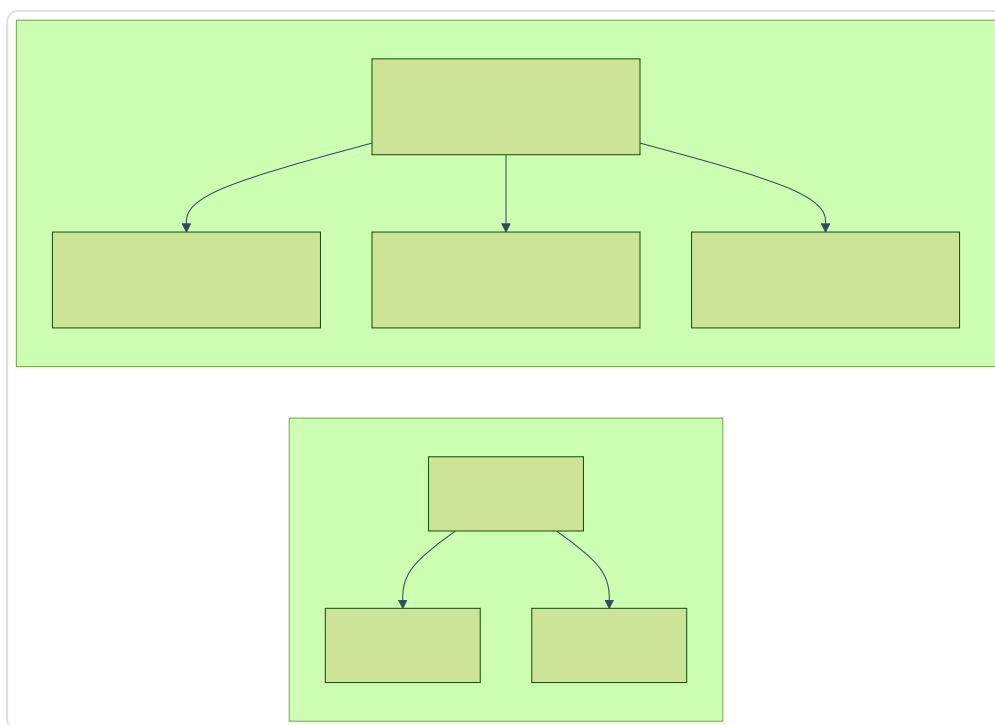
- **Port:** 27017
- **Protocol:** MongoDB Wire Protocol
- **Purpose:** Data persistence for all Legend services

Azure Ingress

- **Ports:** 80 (HTTP), 443 (HTTPS)
- **Protocol:** HTTP/HTTPS
- **Purpose:** External access and load balancing



Deployment Architecture



Architecture Diagram



Configuration Summary

Component	Port	Protocol	Purpose	Authentication
Guardian Agent	8000	HTTP	API Server	API Key (Bearer)
Legend Engine	6060	HTTP	Model Execution	Internal
Legend SDLC	7070	HTTP	Source Control	GitLab OAuth
Legend Studio	9000	HTTP	Web Interface	GitLab OAuth
MongoDB	27017	MongoDB	Data Storage	Internal
Azure Ingress	80/443	HTTP/HTTPS	External Access	Load Balancer

This architecture provides a scalable, secure, and maintainable system for monitoring and managing the FINOS Legend platform through the Legend Guardian Agent.