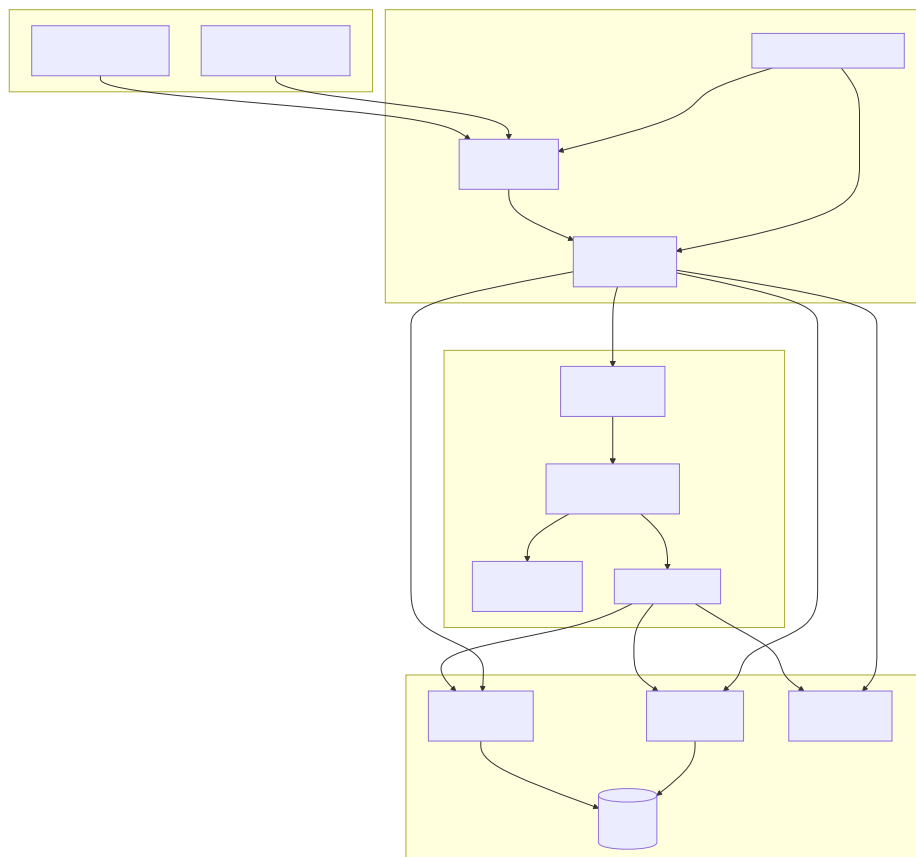


Legend Guardian Agent - System Architecture

-  **High-Level System Architecture**
-  **Detailed Component Architecture**
-  **Network Architecture & Ports**
-  **Authentication & Security Architecture**
-  **Data Flow Architecture**
-  **Component Details**
 - Legend Guardian Agent**
 - Legend Engine**
 - Legend SDLC**
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 - MongoDB**
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-  **Deployment Architecture**
-  **Configuration Summary**

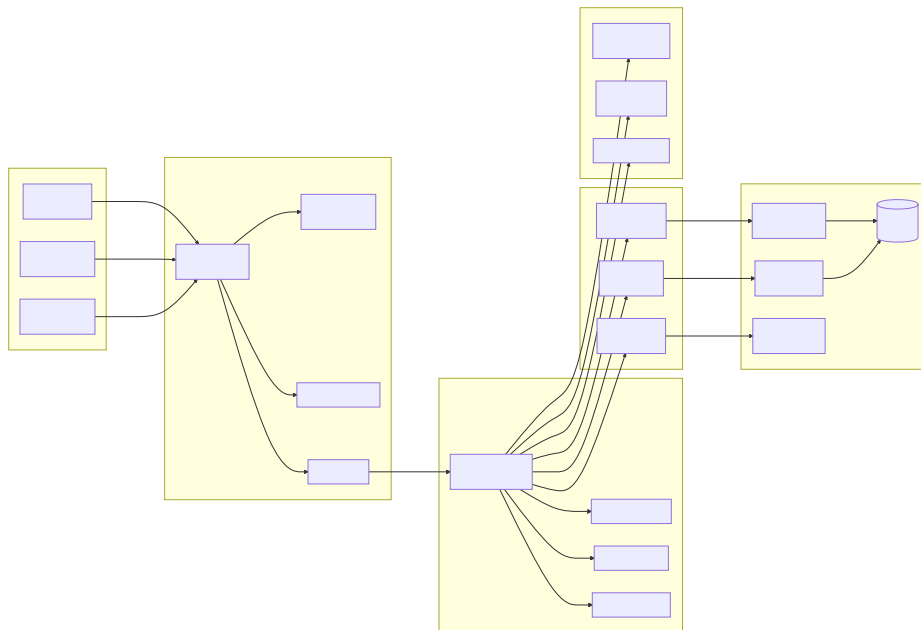
Legend Guardian Agent - System Architecture

High-Level System Architecture



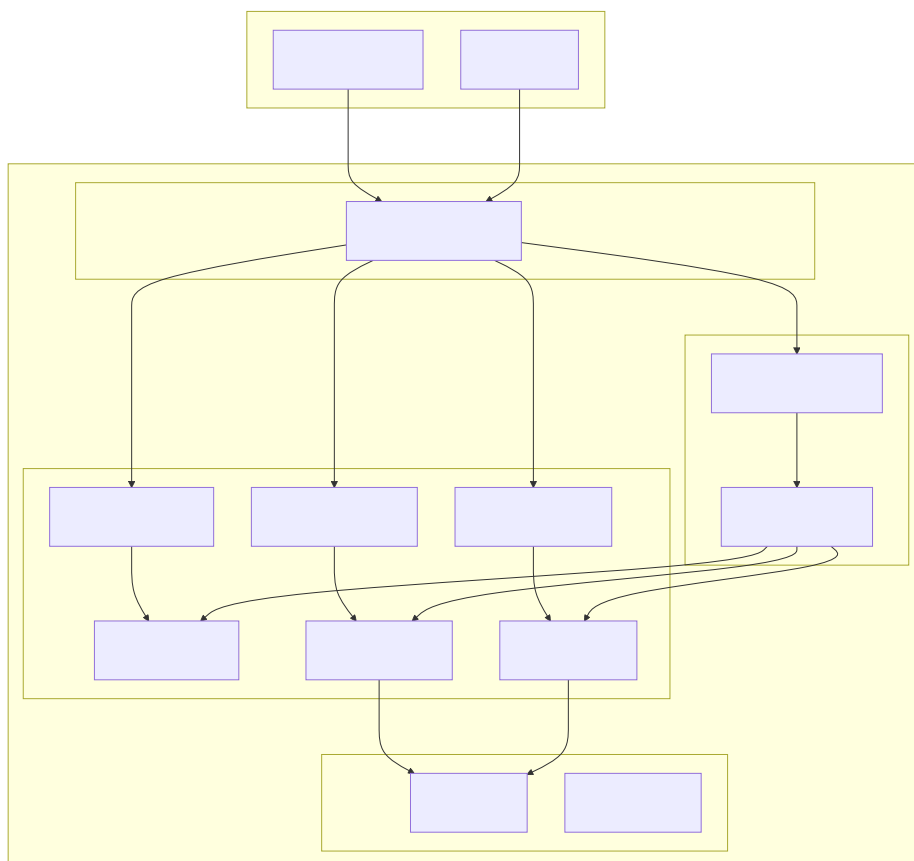
Architecture Diagram

Detailed Component Architecture



Architecture Diagram

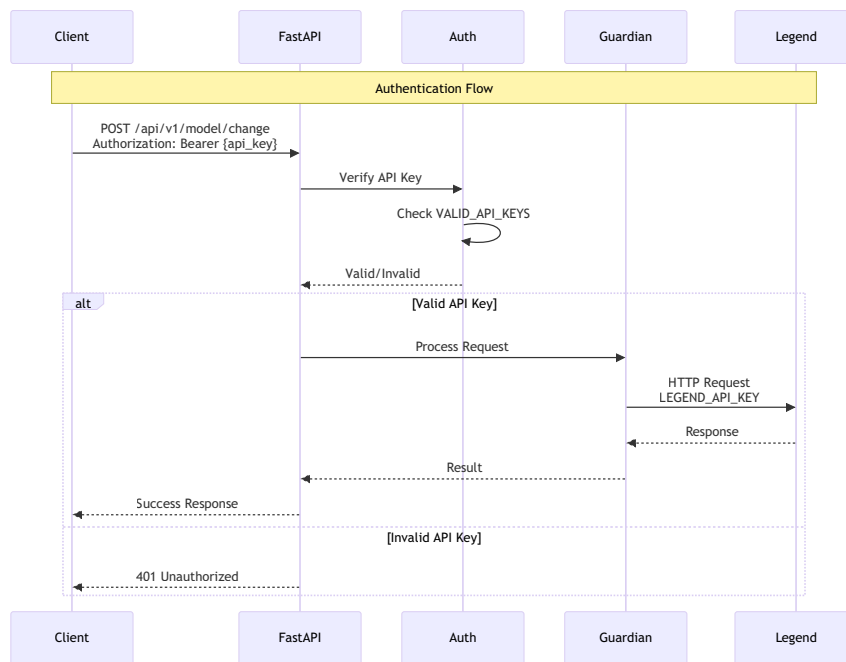
Network Architecture & Ports



Architecture Diagram



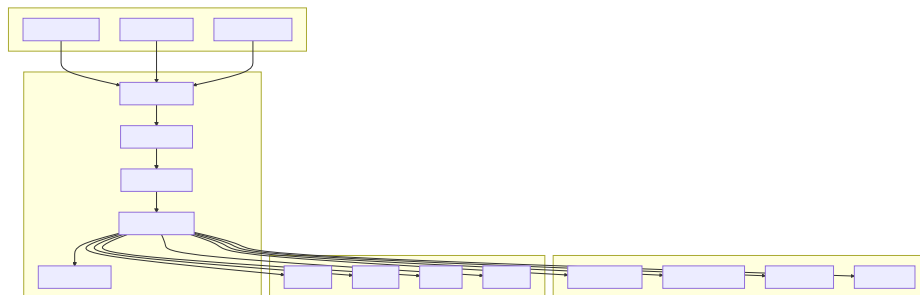
Authentication & Security Architecture



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

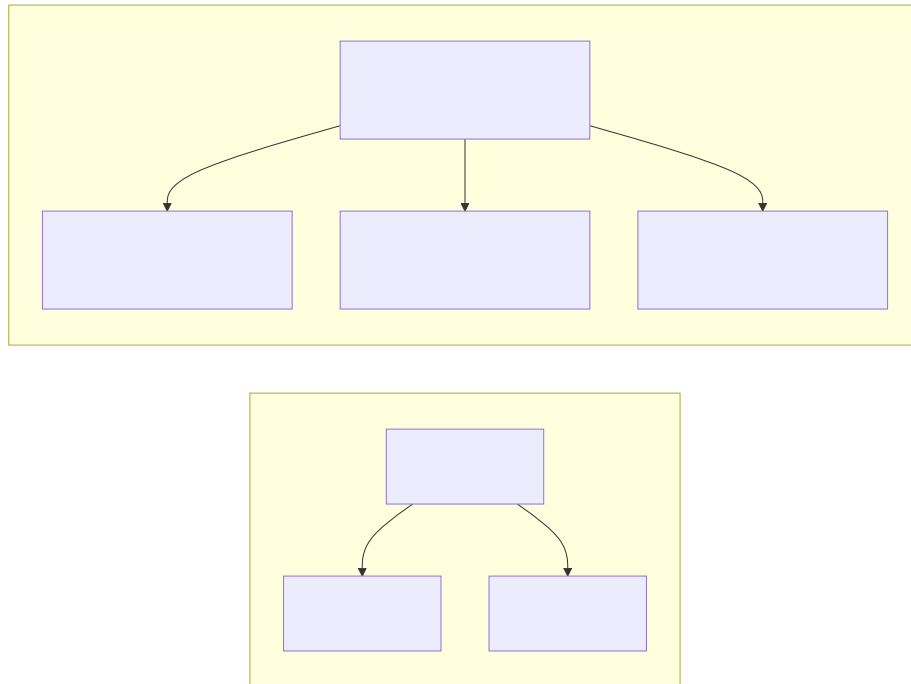
MongoDB

- **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.