"Legend Guardian Agent - System Architecture"

"Legend Guardian Agent Team"

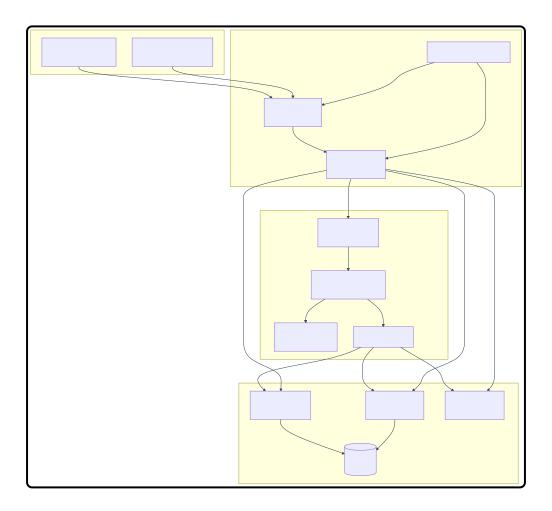
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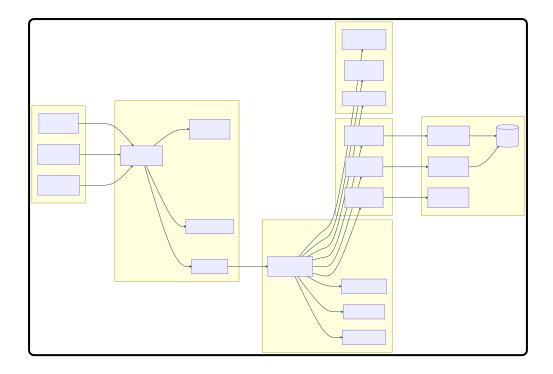
Legend Guardian Agent - System Architecture

THigh-Level System Architecture



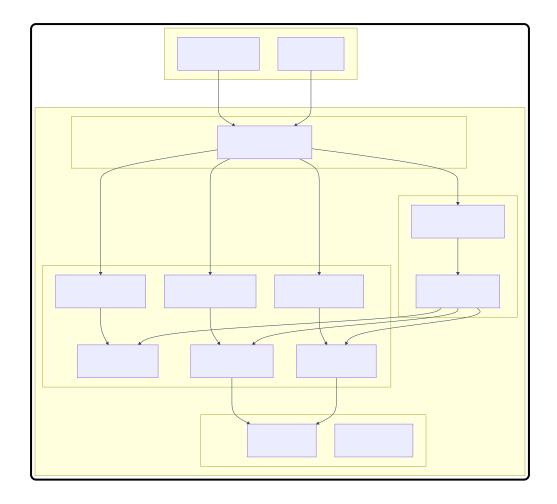
Architecture Diagram

▲ Detailed Component Architecture



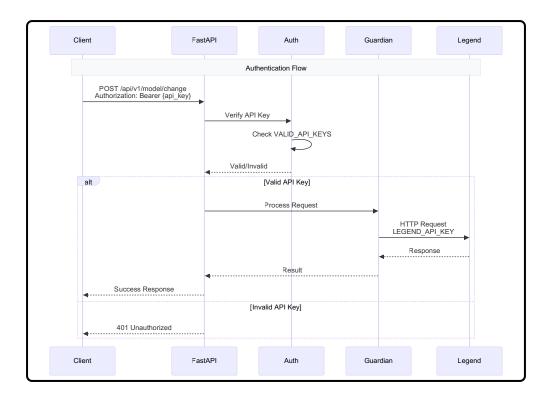
Architecture Diagram





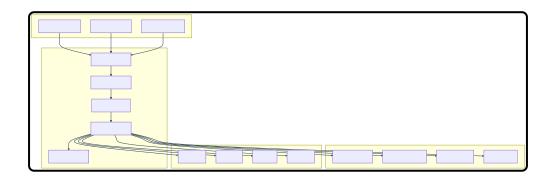
Architecture Diagram

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

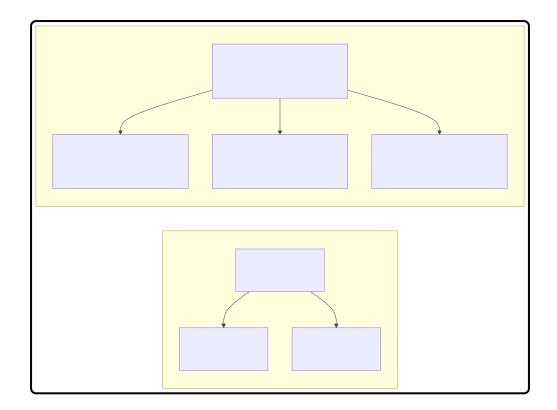
Azure Ingress

• Ports: 80 (HTTP), 443 (HTTPS)

Protocol: HTTP/HTTPS

· Purpose: External access and load balancing





Architecture Diagram

Configuration Summary

Component	Port	Protocol	Purpose	Authentication
Guardian Agent	8000	нттр	API Server	API Key (Bearer)
Legend Engine	6060	НТТР	Model Execution	Internal
Legend SDLC	7070	НТТР	Source Control	GitLab OAuth
Legend Studio	9000	НТТР	Web Interface	GitLab OAuth
MongoDB	27017	MongoDB		Internal

Component	Port	Protocol	Purpose	Authentication
			Data Storage	
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.