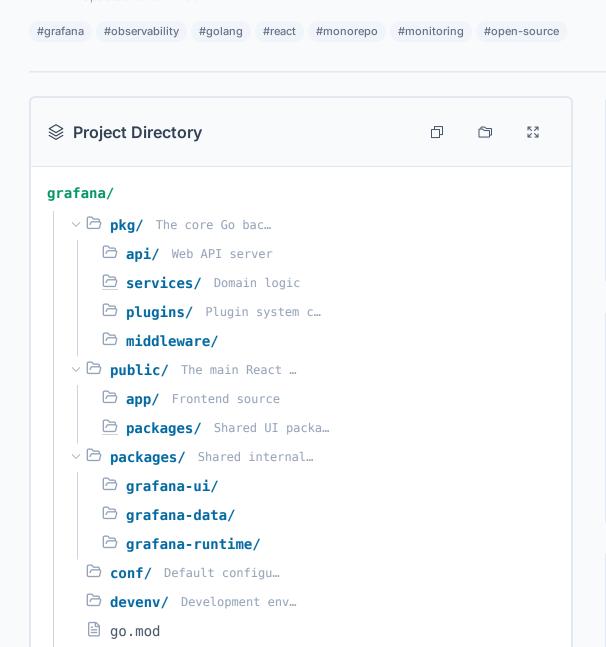


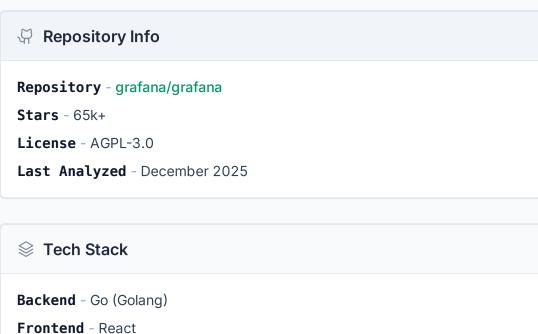
Grafana Project Structure

The open-source platform for monitoring and observability. Grafana features a highly optimized Go backend for data processing and a rich, interactive React frontend, all managed within a professional monorepo structure.

Updated 2025-12-30

package.json





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Architecture Notes

Language - TypeScript / Go

State - Redux & React Query

Data Sources - Prometheus, Loki, InfluxDB, etc.

Grafana's architecture is built for high concurrency and performance. The Go backend (pkg/) handles complex data source aggregation and dashboard management with minimal overhead. On the frontend, Grafana uses a sophisticated plugin architecture that allows developers to add new visualizations and data sources dynamically. They maintain a strict boundary between core logic and UI components by extracting shared logic into internal @grafana/ packages, which ensures consistency across their massive application.

pkg/ - The central Go-based engine that powers data ingestion and API services

public/app/ - A high-performance React application designed for real-time data visualization

packages/ - Reusable TypeScript libraries that define the design system and data protocols

conf/ - Essential configuration files that control every aspect of the Grafana server

○ Why This Structure?

Grafana is the gold standard for Go and React monorepos. It demonstrates how to build a world-class platform that is both extremely performant and highly extensible. It's a must-study for anyone building dashboarding tools or complex data-driven platforms.