Grafana

① Opensource visualization platform analytics used primarily for monitoring & observability.

② Query, visualization, metrics logs & traces.

Key feature of Grafana:

① Data Source Integration
② Dashboards.
③ Alerting.
④ Annotation

⑤ Templating.
⑥ User Management
⑦ Plugins.

Common Use Case:-

① Infra. Monitoring.
② APM.
③ Log Analytics

④ Business intelligence.
⑤ IoT Dashboard.

Stack Integration:-

① Metrics —
② Logs —
③ Traces.

④ Notification.
⑤ Storage
⑥ CI/CD

Architecture Overview:-

1. Data Source. — Grafana to connect to external time-Series.
2. Backend Server. — Plugin, Dashboards & API
3. Frontend UI — Web based Interface for visualiz. & managing Dashboard.
4. Alert Engine — Evaluate Condition & route alert to channel

Collect

Data Collection

Visualization

Promtail → Loki → Grafana.