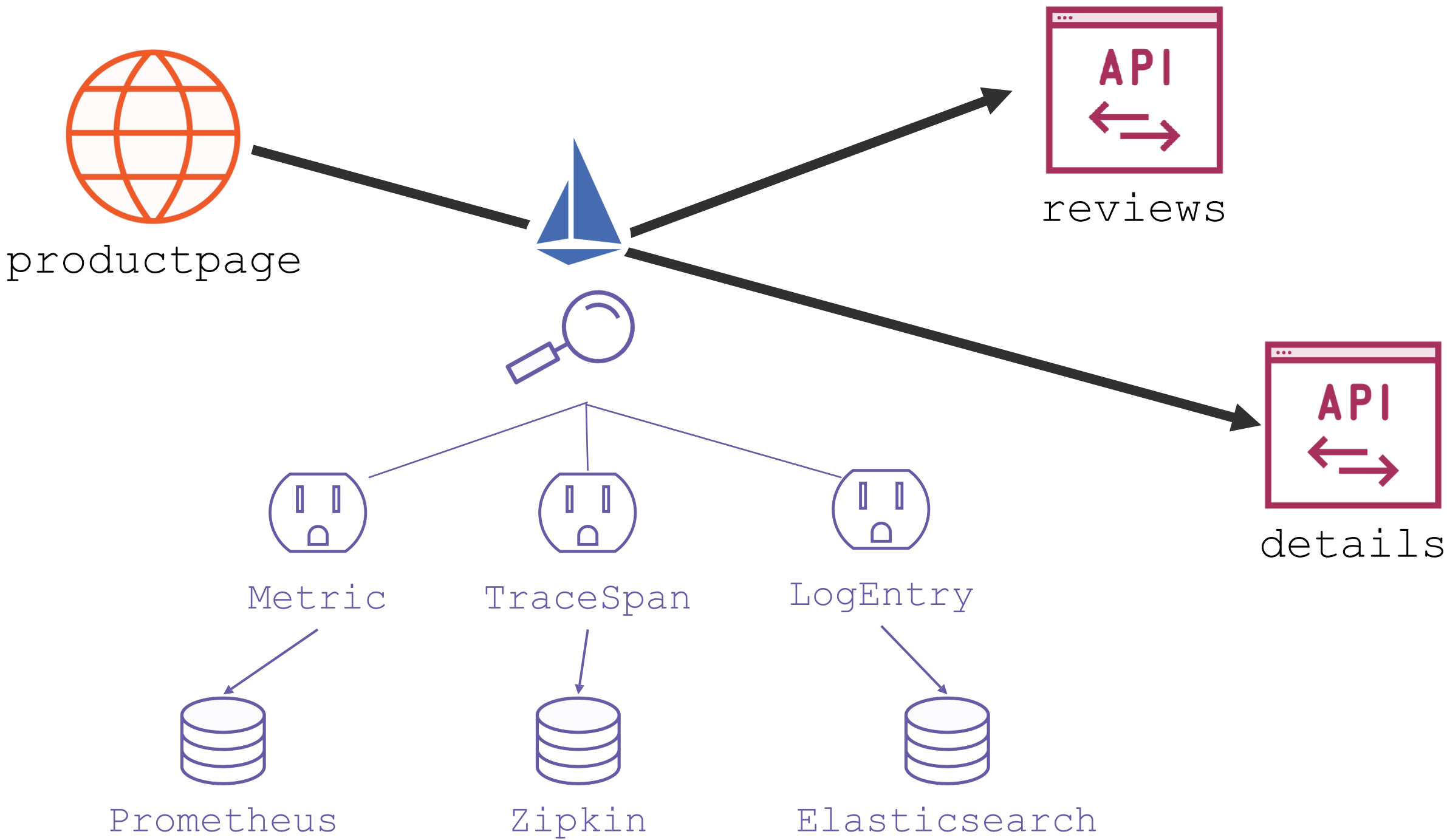


Observing the Service Network



Kien Bui

DevOps & Platform Engineer





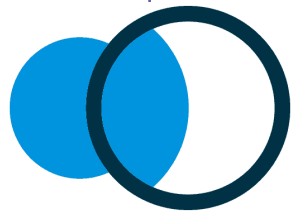
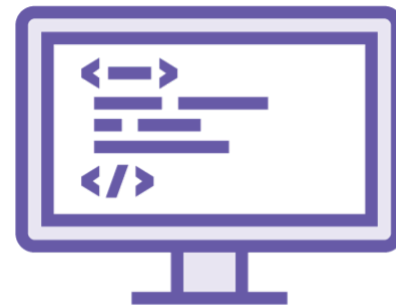
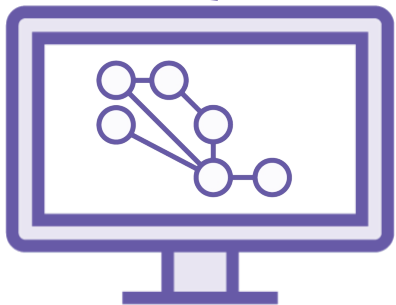
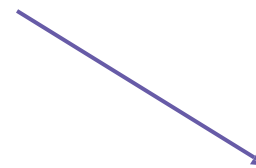
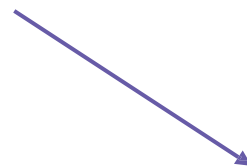
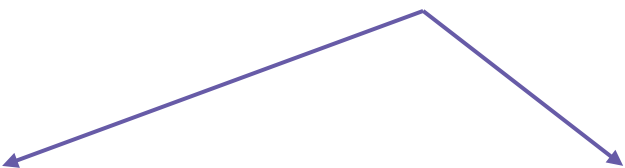
Prometheus



Zipkin



Elasticsearch



Kiali



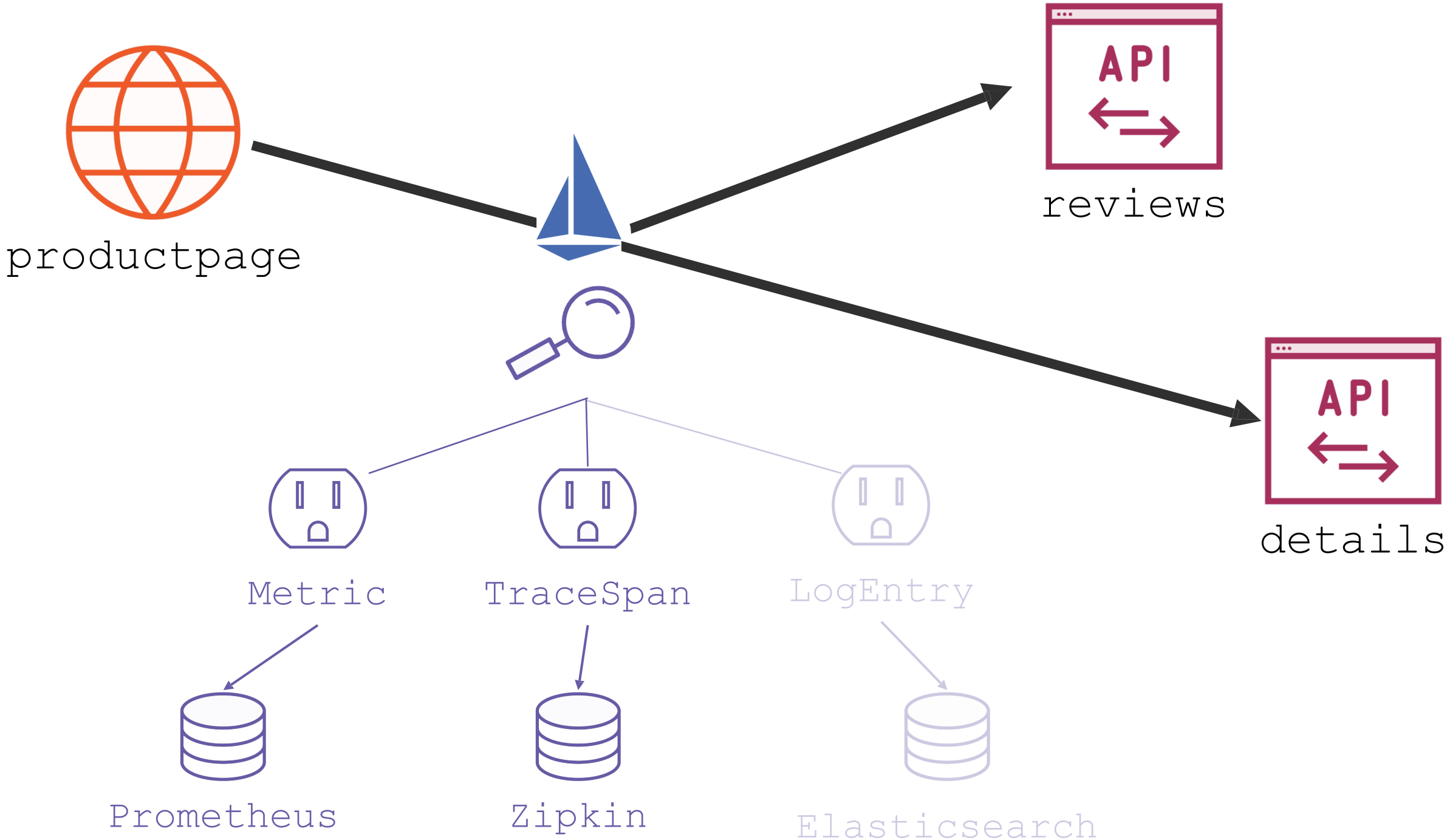
Grafana

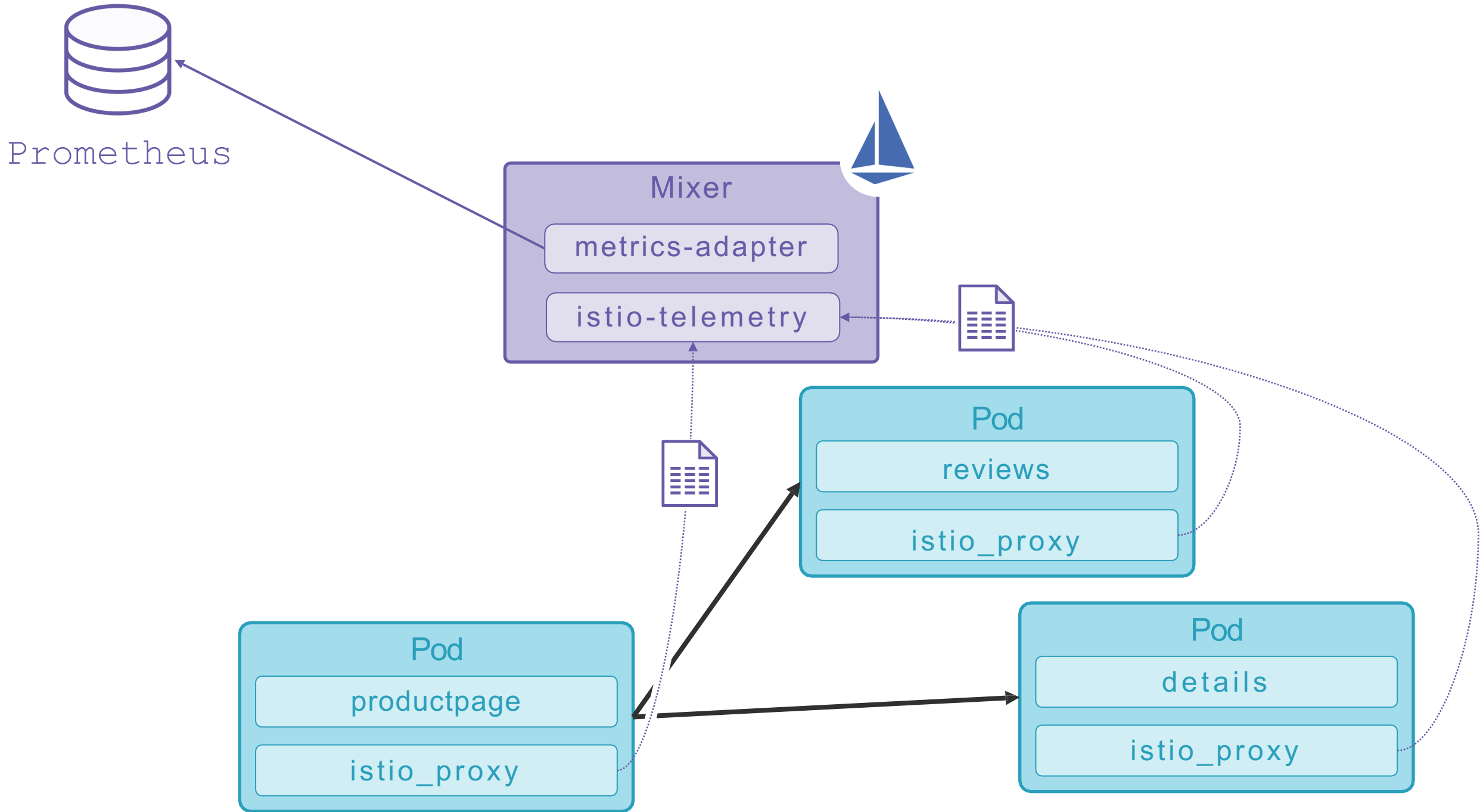


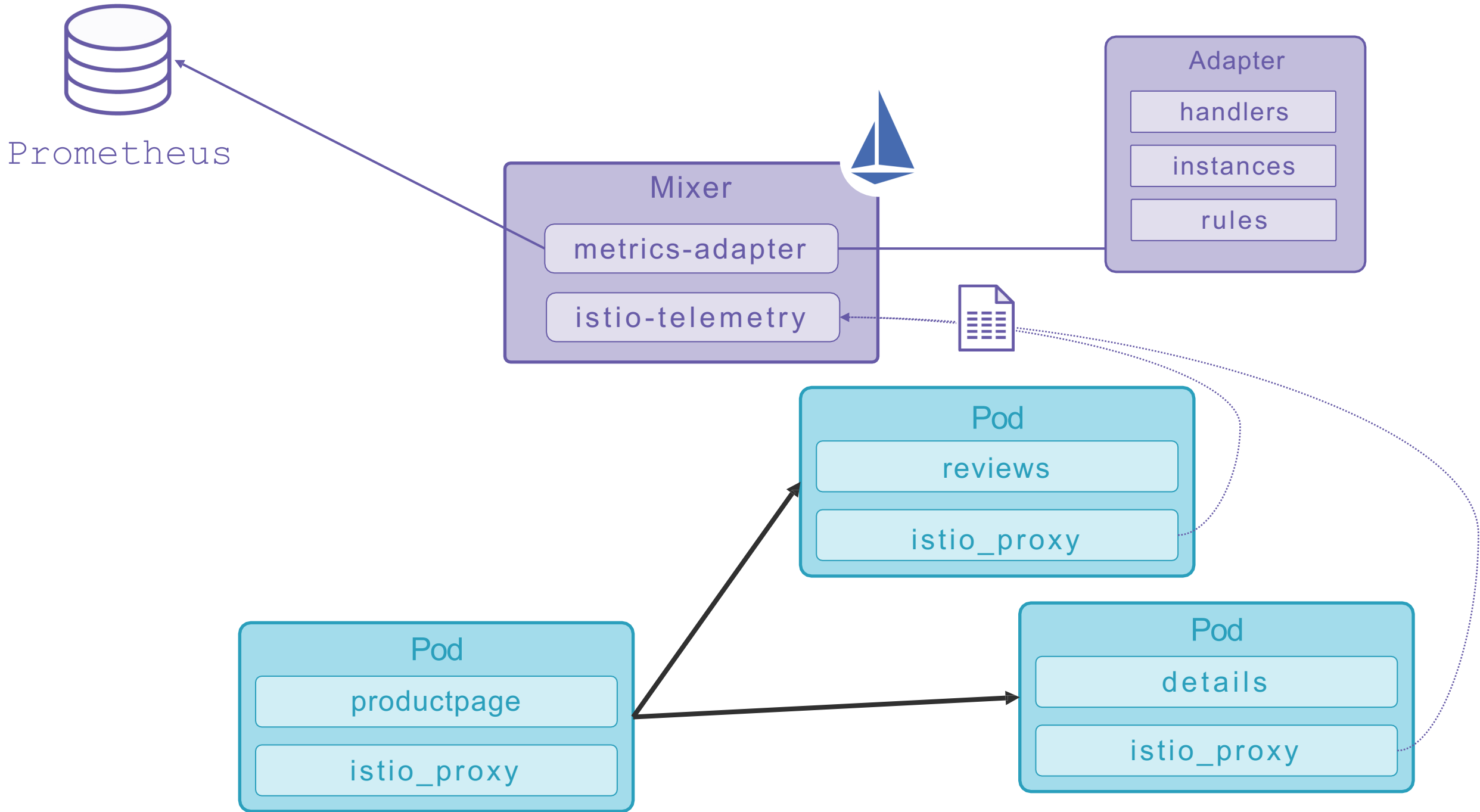
Jaeger



Kibana







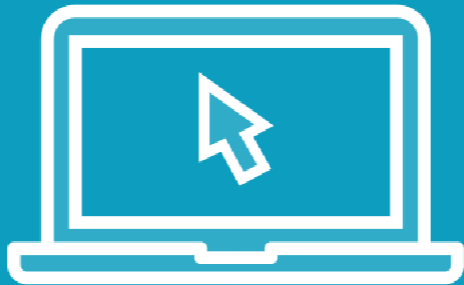
Demo



Visualizing the Service Mesh

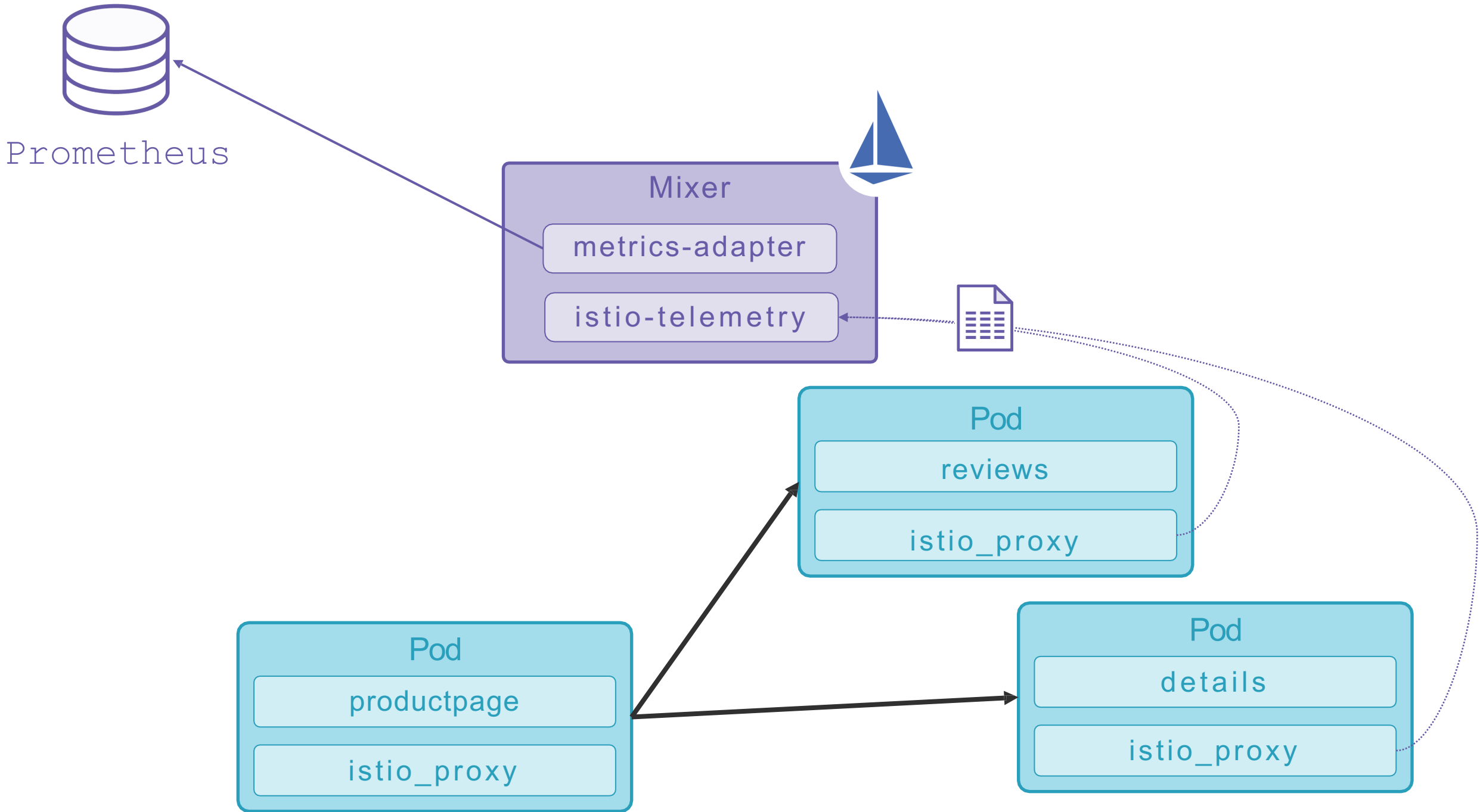
- Exposing the Kiali UI
- Exploring mesh graphs
- Monitoring canary rollouts

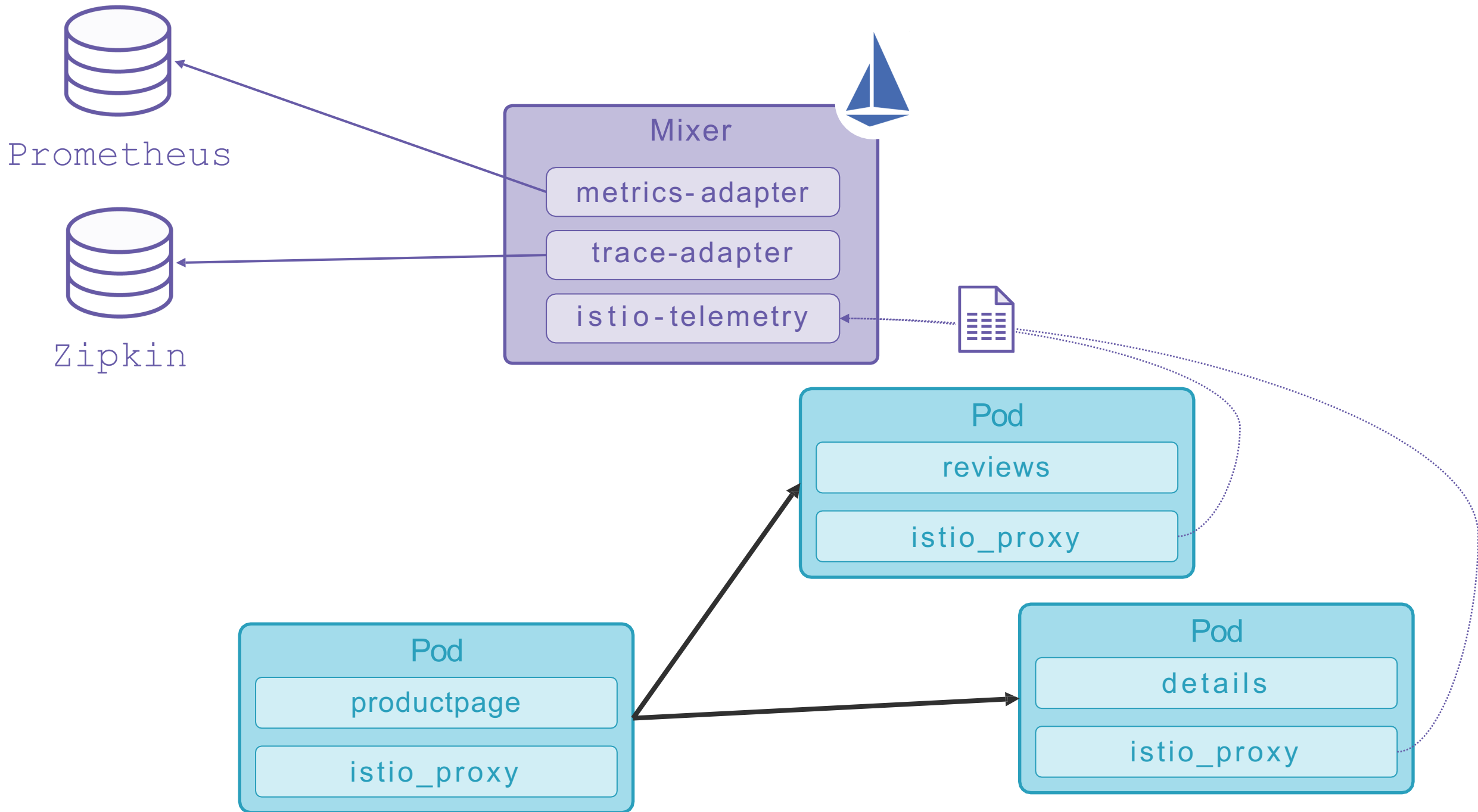
Demo



Dashboards for Services and Istio

- Exposing Prometheus and Grafana
- Exploring Istio's dashboards
- Tracking down failed rollouts







HTTP Headers

- x-request-id
- x-b3-traceid
- x-b3-spanid
- x-b3-parentspanid
- x-b3-sampled
- x-b3-flags
- x-ot-span-context

Pod

productpage

istio_proxy

Pod

reviews

istio_proxy

Pod

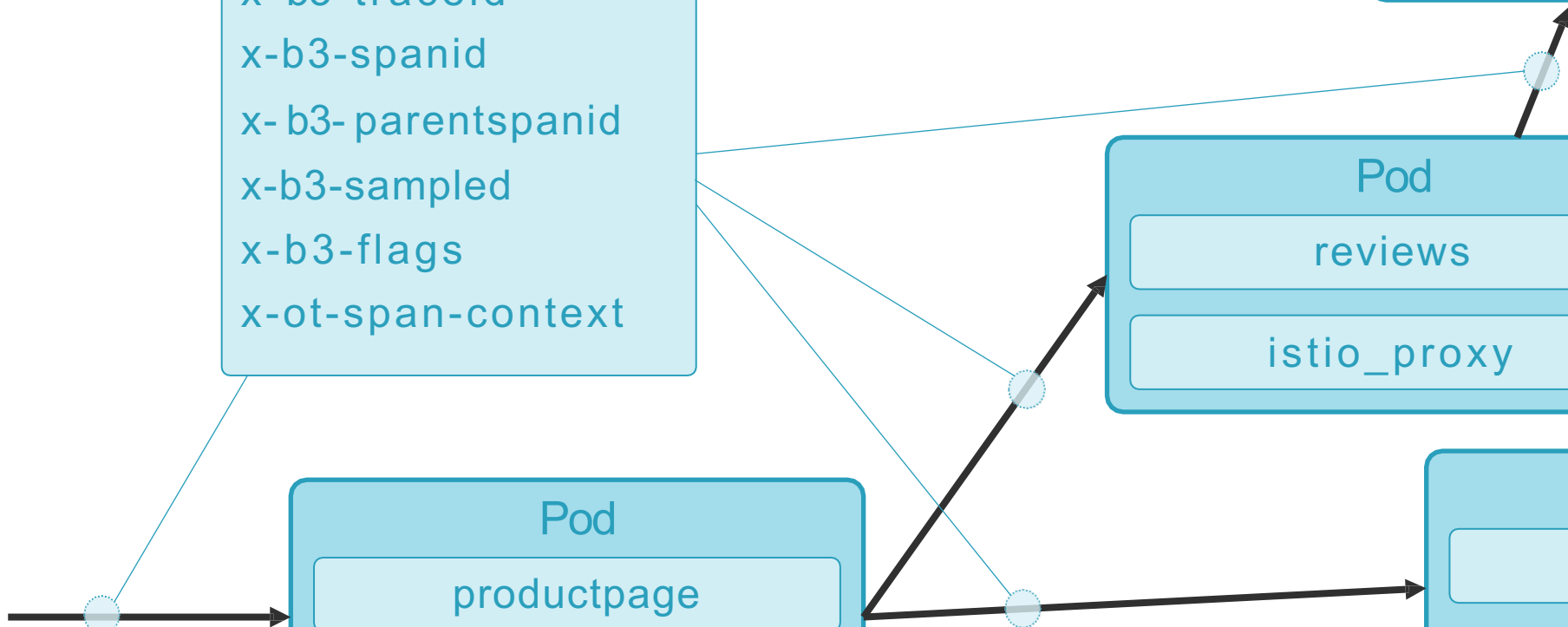
ratings

istio_proxy

Pod

details

istio_proxy

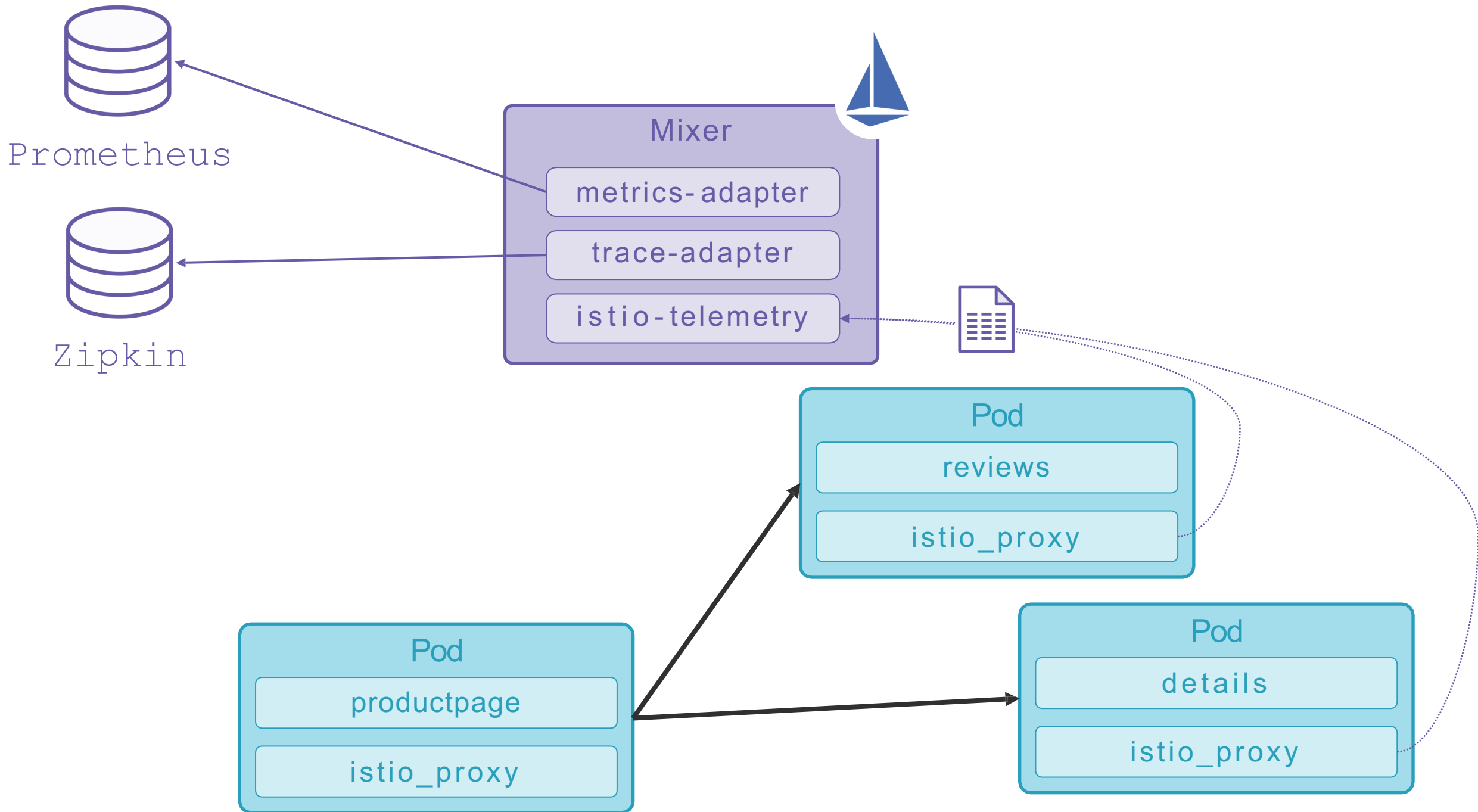


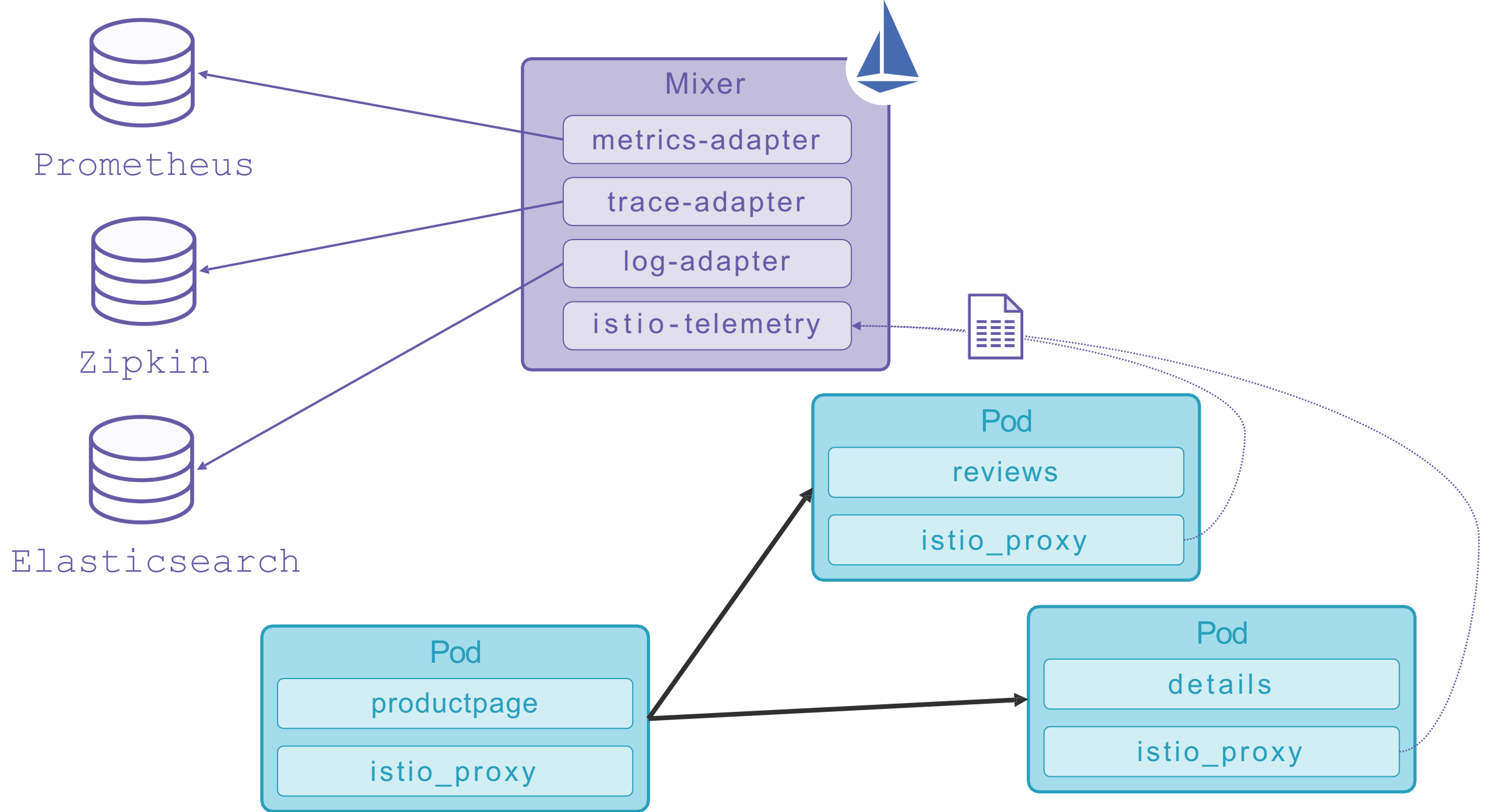
Demo

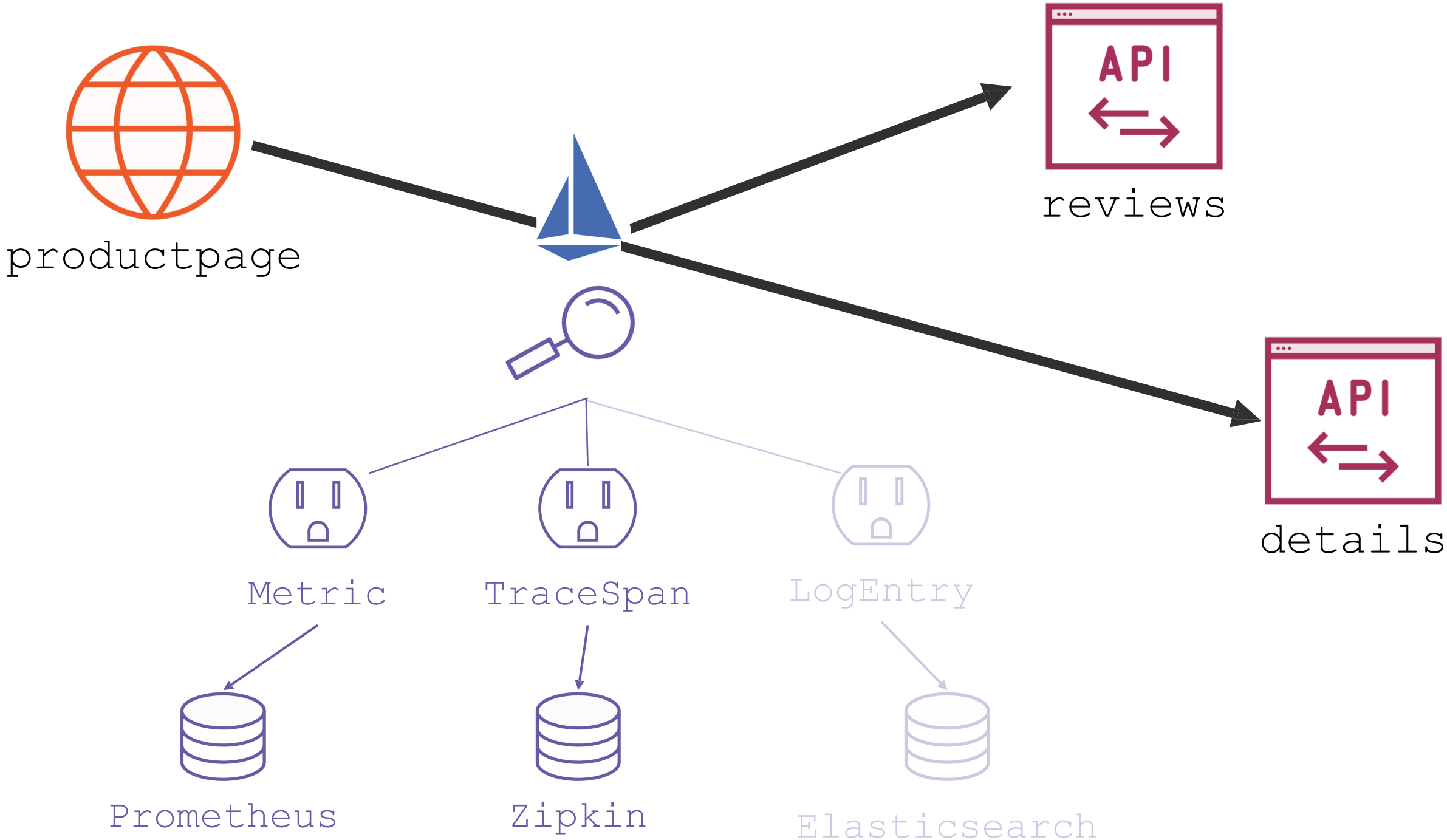


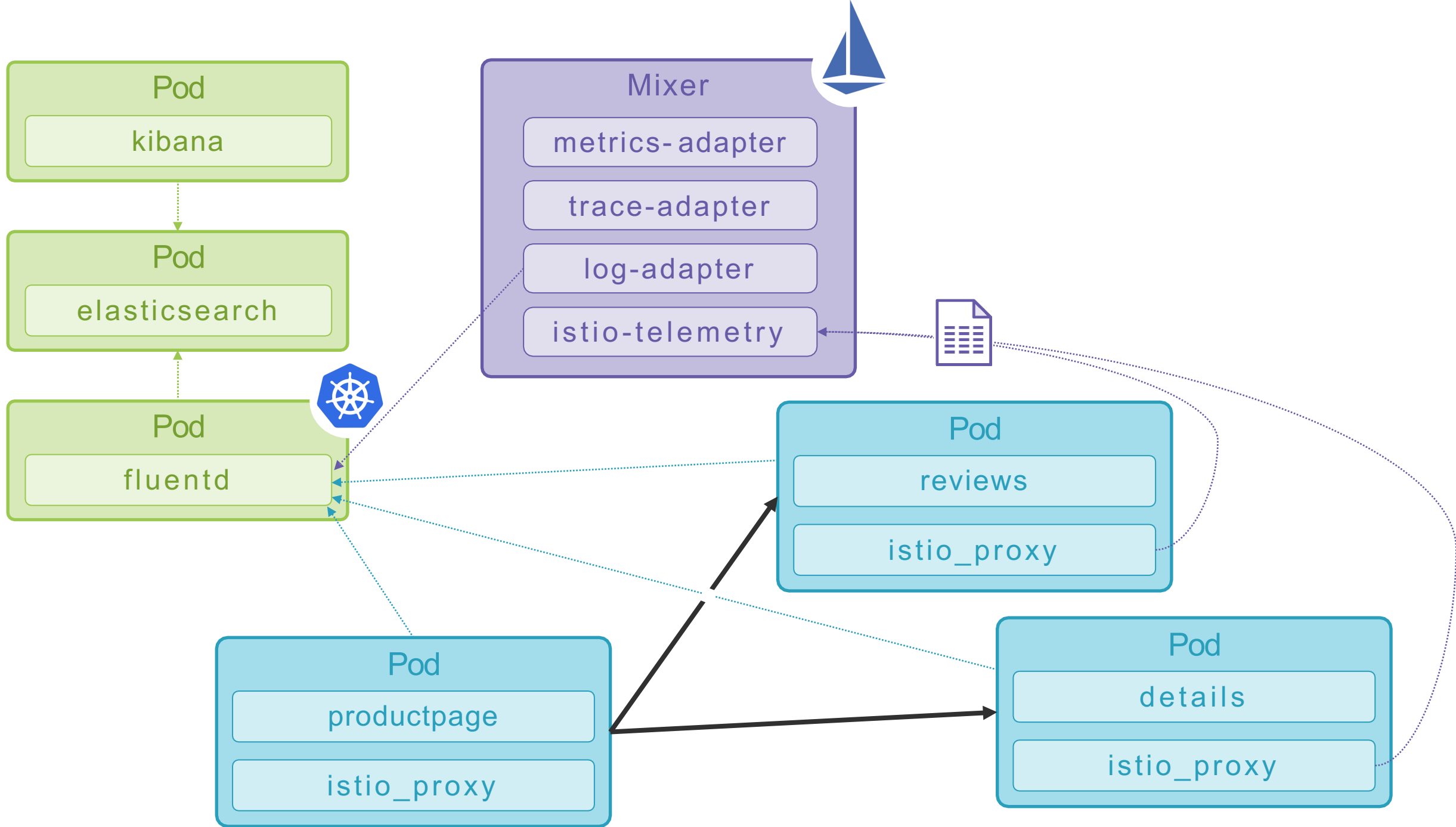
Distributed Tracing

- Exposing the Jaeger UI
- Examining traces
- Investigating latency







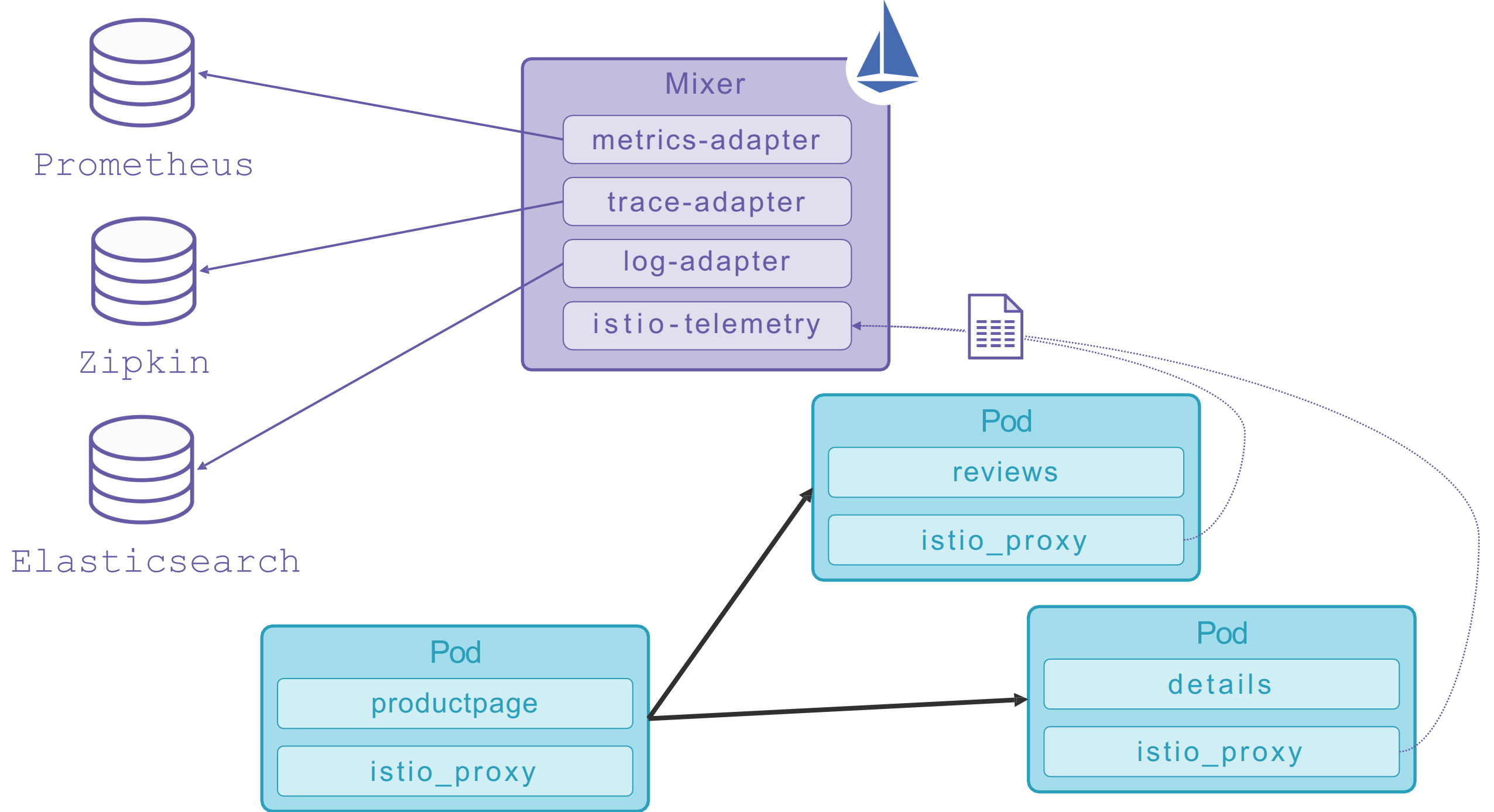


Demo



Logging with Fluentd and Kibana

- Deploying the EFK logging stack
- Configuring the log adapter
- Exploring Istio's log entries





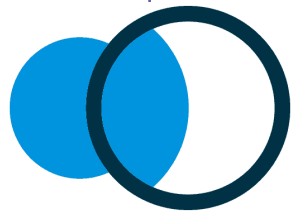
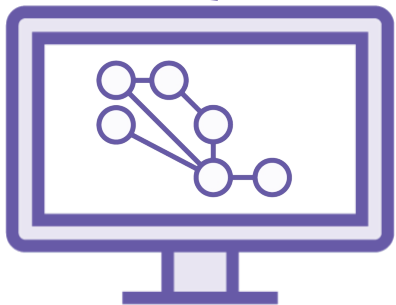
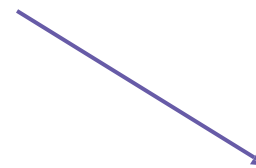
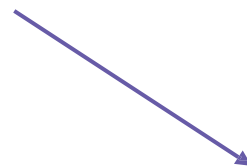
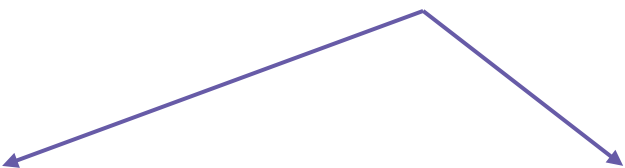
Prometheus



Zipkin



Elasticsearch



Kiali



Grafana



Jaeger



Kibana

Summary



Telemetry in Istio

- Proxy reports
- Mixer adapters
- Back-end data stores

Adapters

- Metric: Prometheus
- TraceSpan: Zipkin
- LogEntry: Fluentd

Front-ends

- Kiali & Grafana
- Jaeger
- Kibana

Up Next: **Running Istio in Production**
