

OPENTELEMETRY

**Diferentes estratégias para o deploy de uma
infraestrutura de observabilidade**

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AGENDA

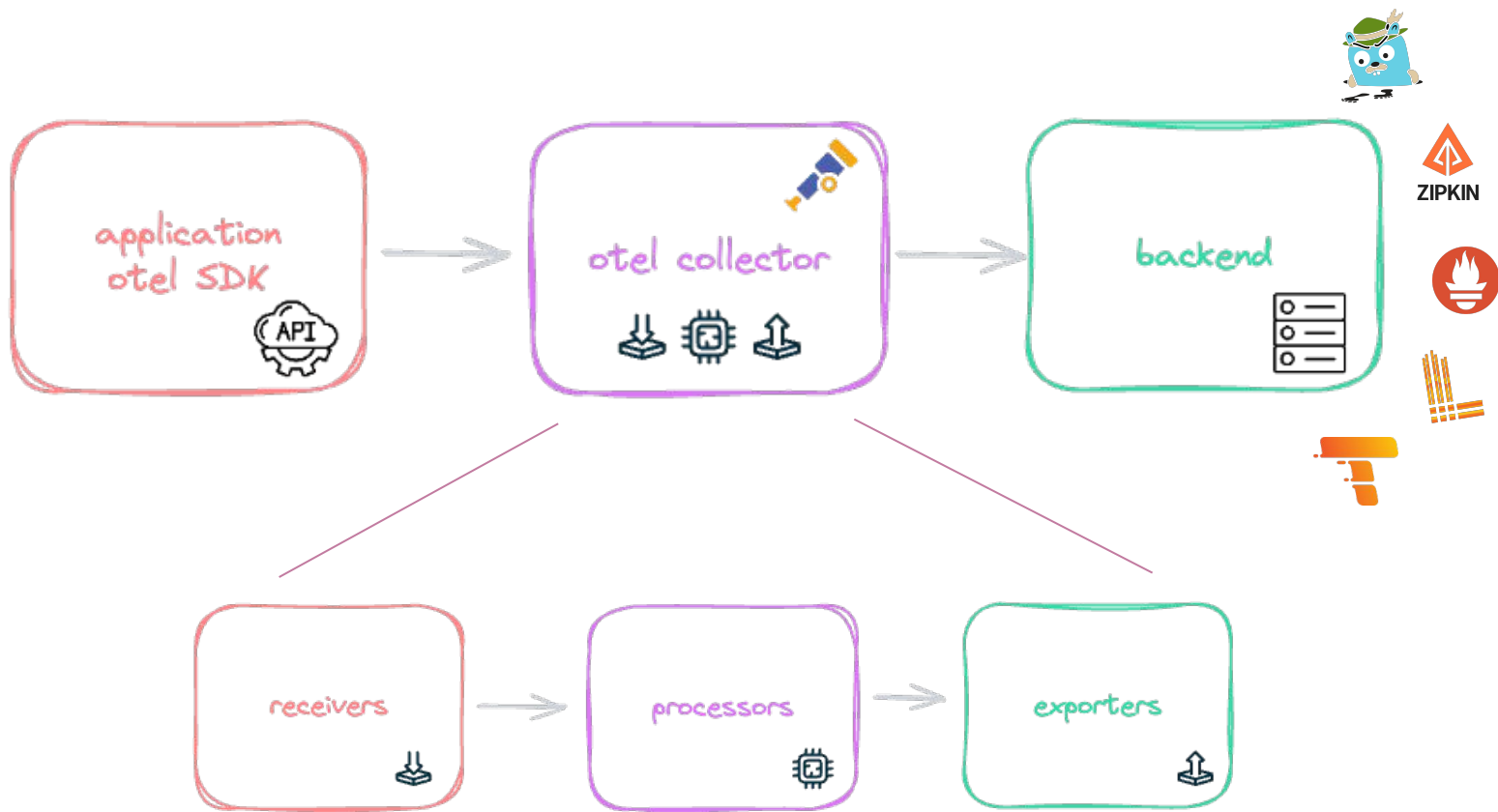
1. SOBRE O OPENTELEMETRY
2. PADRÕES DE DEPLOYMENT DO OTEL COLLECTOR
3. PADRÕES UTILIZADOS NO KUBERNETES
4. REFERÊNCIAS

O QUE É OPENTELEMETRY?

- `OpenTracing + OpenCensus = OpenTelemetry`
- Conjunto de ferramentas, APIs e SDKs usados para instrumentar, gerar, coletar e exportar dados de telemetria;
- Traces (estável), métricas (estável) e logs (estável), profiling (iniciativa);



OPENTELEMETRY COLLECTOR E PIPELINE DE TELEMETRIA



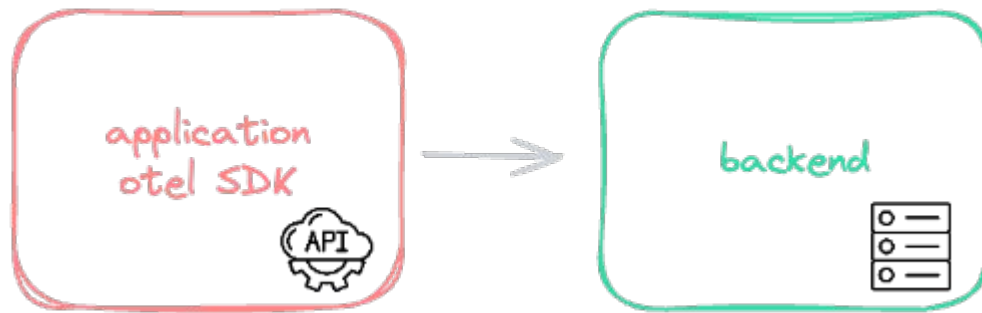
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TIPOS DE DEPLOYMENTS

- Sem Collector
- Agent
- Gateway

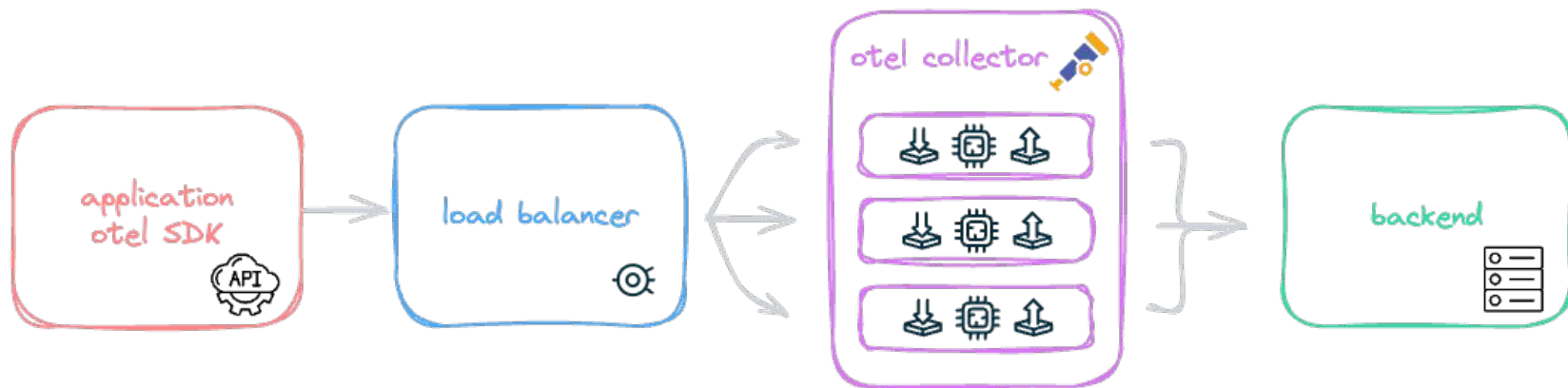
SEM COLLECTOR



AGENT



GATEWAY



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RODANDO NO KUBERNETES

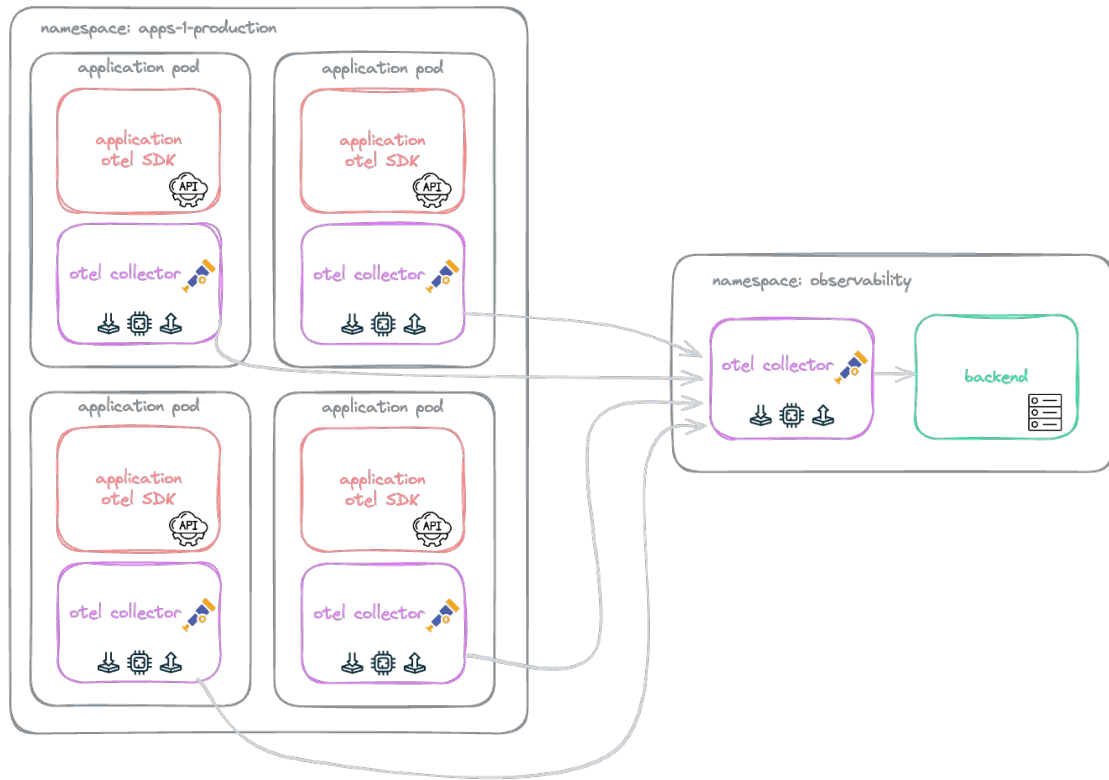
Deploy e ciclo de vida dos collectors:

- Operator
- Helm Charts
- Manifestos

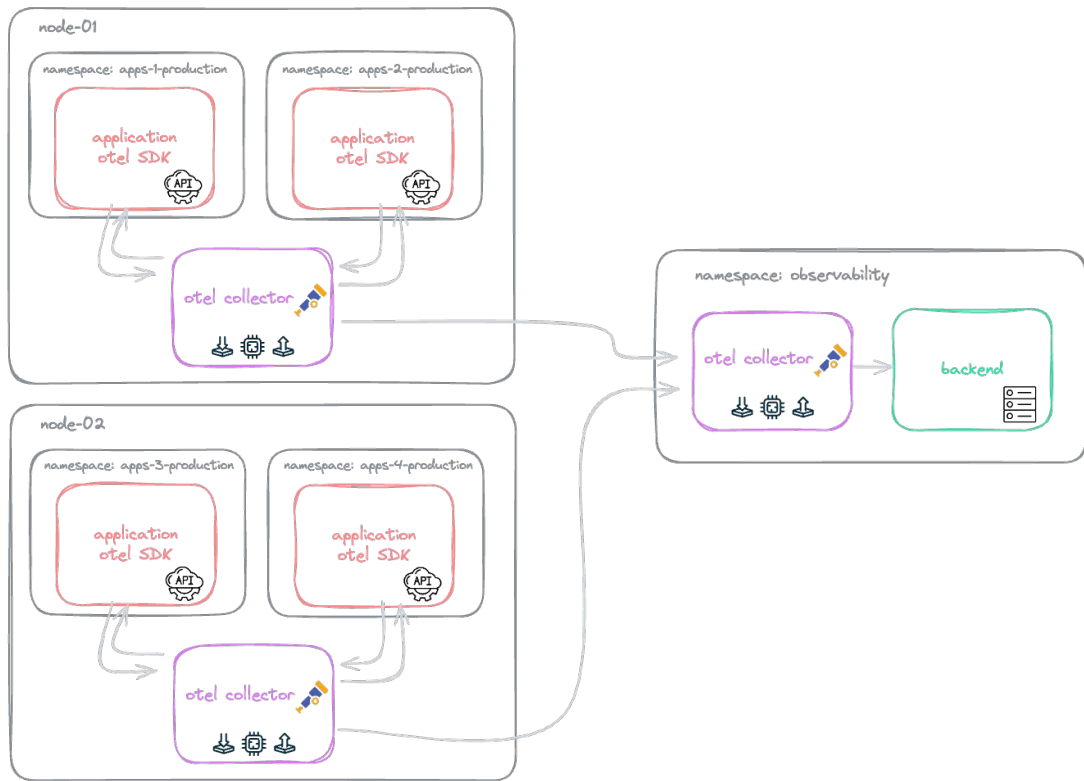
Deployment modes:

- Deployment
- DaemonSet
- StatefulSet
- Sidecar

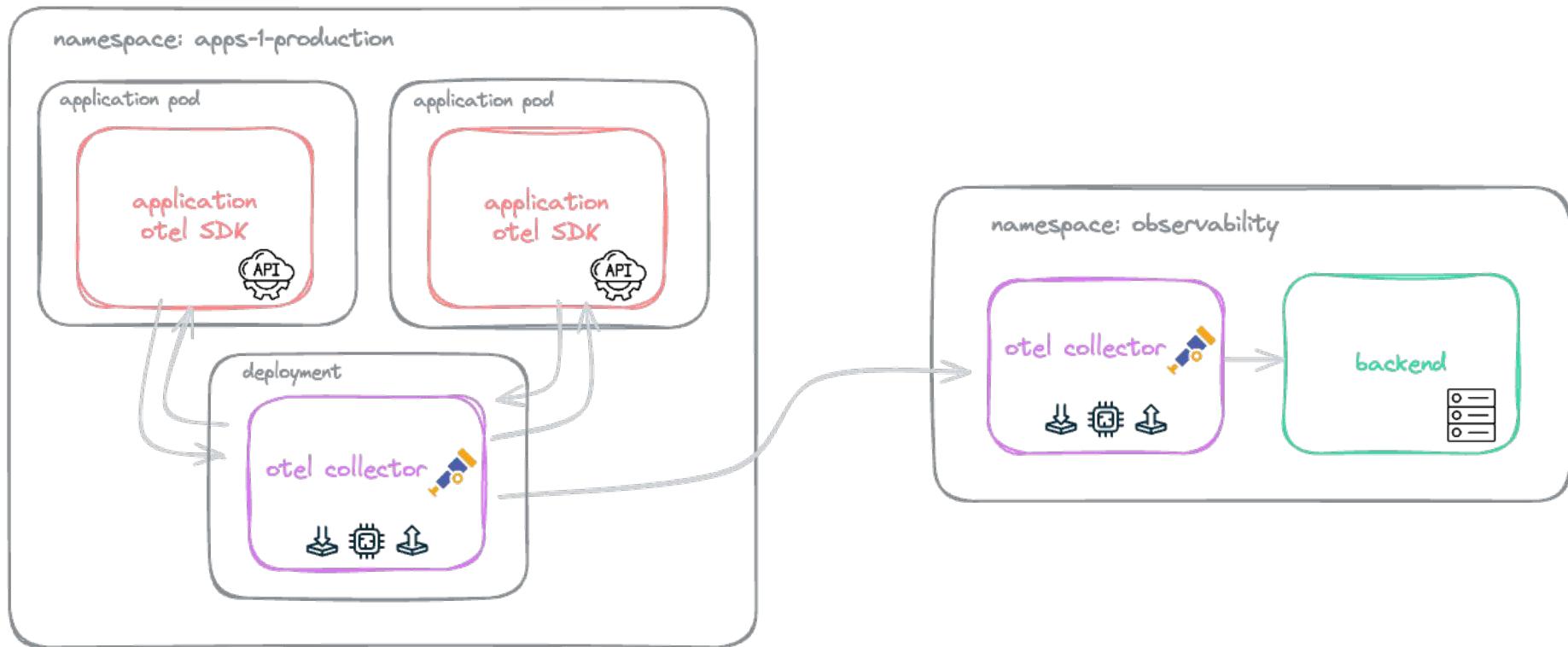
RODANDO NO KUBERNETES - SIDECAR



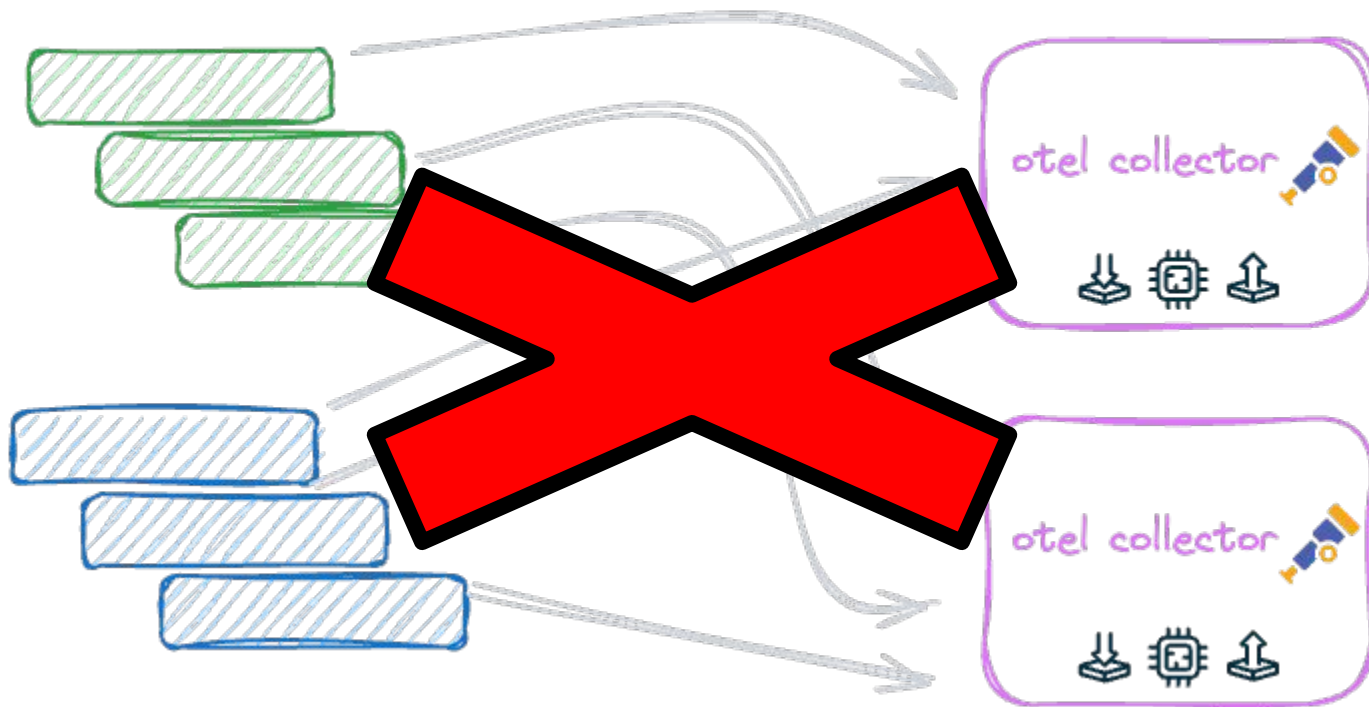
RODANDO NO KUBERNETES - DEAMONSET



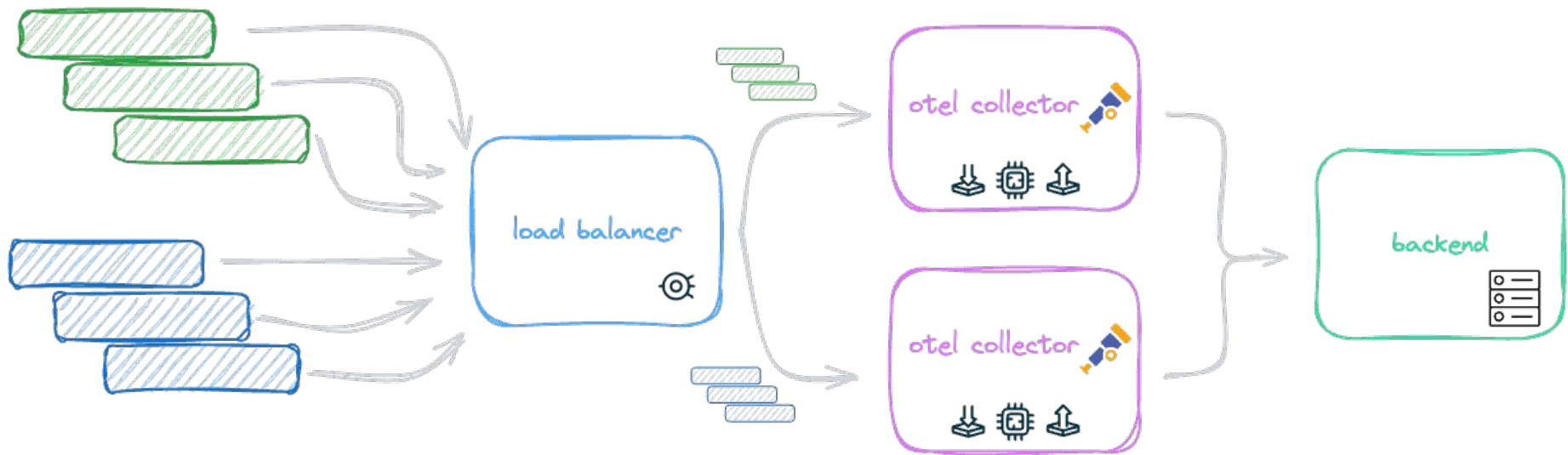
RODANDO NO KUBERNETES - DEPLOYMENT



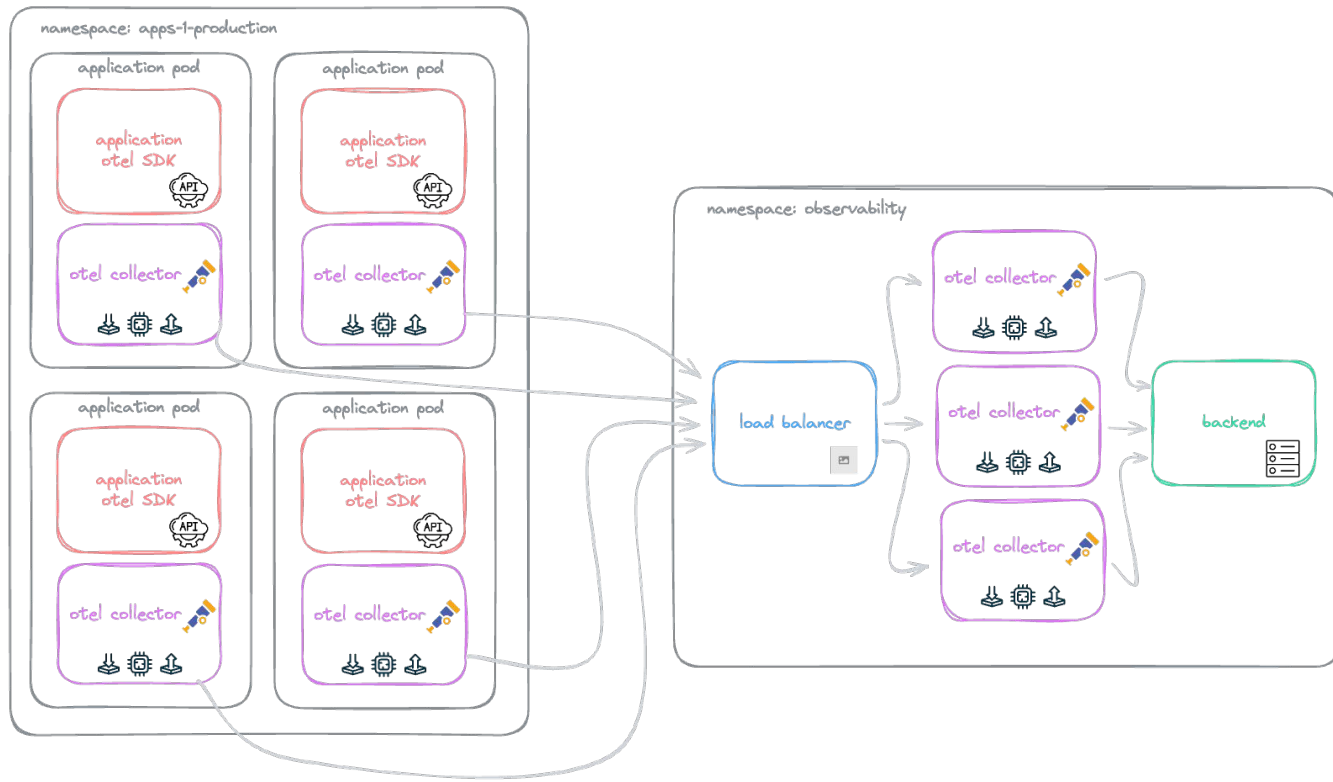
LOAD BALANCER - MOTIVAÇÕES



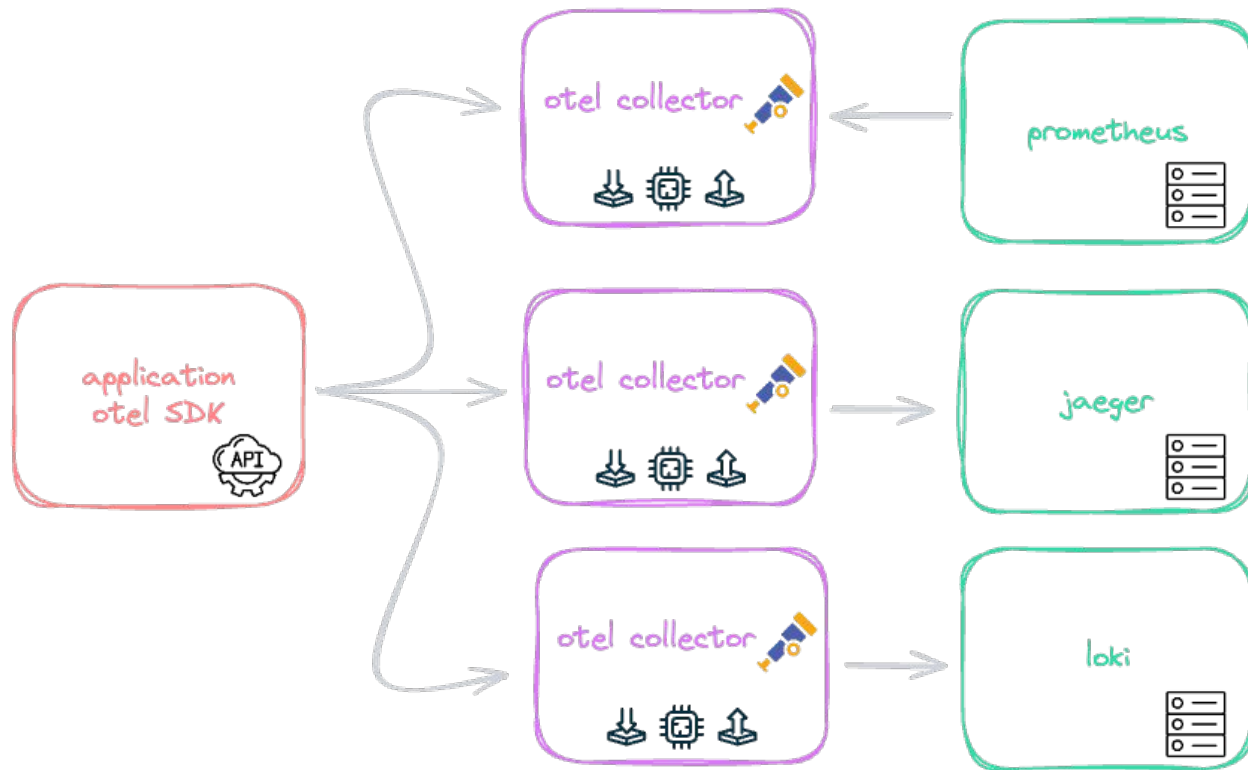
LOAD BALANCER - MOTIVAÇÕES



LOAD BALANCER



POR SINAL



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REFERÊNCIAS

- [Collector Deployment](#)
- [Deploying the OpenTelemetry Collector on Kubernetes](#)
- [\[Kubecon Europe 2023\] Ingesting 6.5 Tb of Telemetry Data Daily Through Open Telemetry Protocol and Collectors](#)
- [OpenTelemetry Collector Antipatterns](#)
- [OpenTelemetry Collector Deployment Patterns - Juraci Paixão Kröhling](#)
- [opentelemetry-collector-deployment-patterns](#)
- [Scale Collector with StatefulSet](#)
- [Tail sampling with OpenTelemetry and New Relic](#)