

Envoy Observability

Envoy Observability?

- As a cloud native proxy, envoy has various mechanisms to observe its state
- Observability is a crucial part in debugging and monitoring distributed systems

We will review

- Admin interface
 - Stats
 - Config dump
 - Clusters
 - Log level
- Debug logs
- Access logs
- Metrics Collection
- Tracing

Admin Interface

- /stats
- /config_dump
- /clusters
- /logging

Debug logs

- Default logs – Very quiet
- Debug logs - Very verbose
 - May impact performance – don't enable globally

Access Logs

- Log to file or ALS
- File logs: string format or json
- Filter what to log

Metrics Collection

- Counters, Gauges, Histograms
- Prometheus demo

Trace Collection

- Similar idea to a program stack trace, adapted to distributed systems
- Jaeger demo