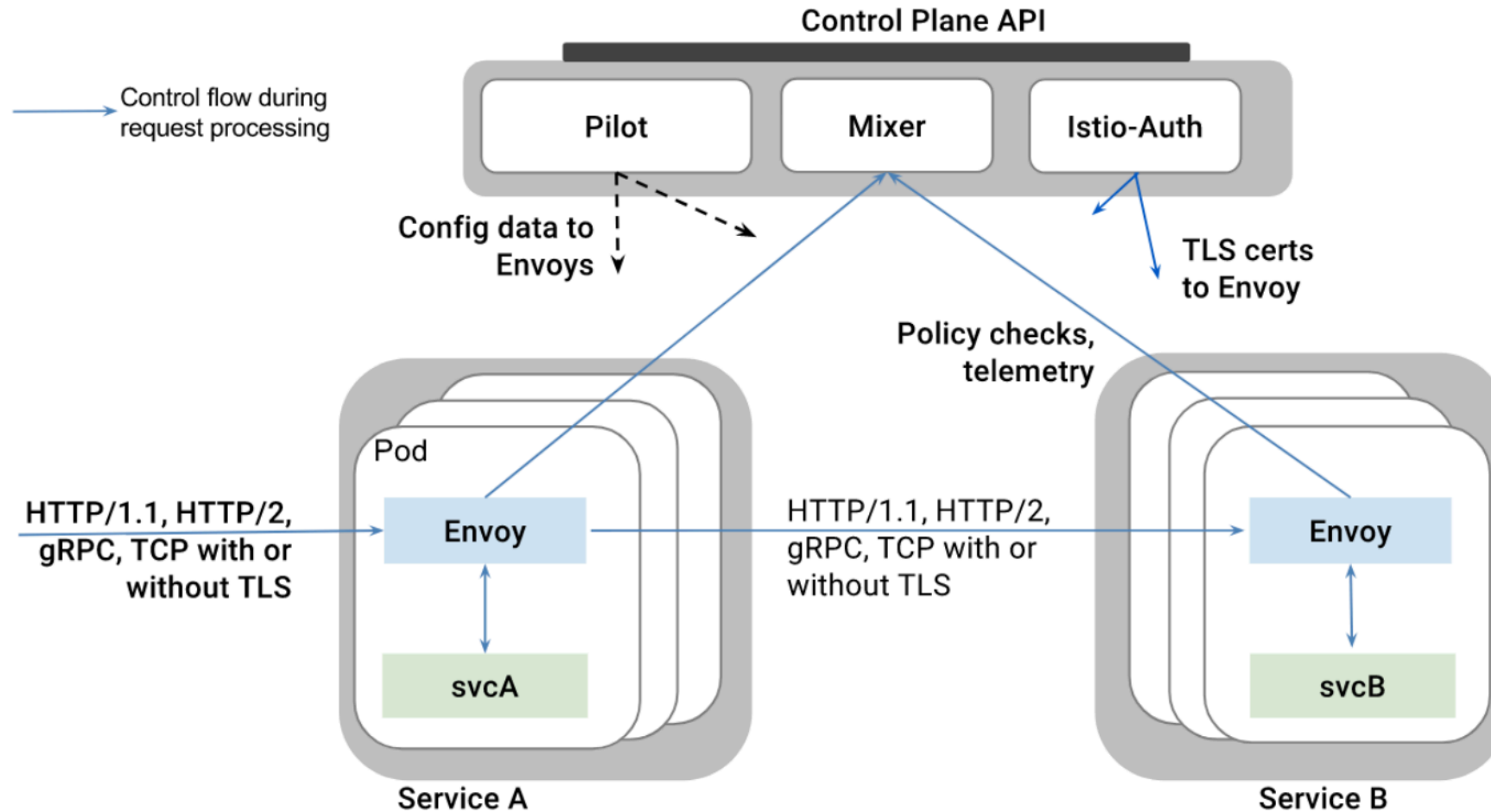
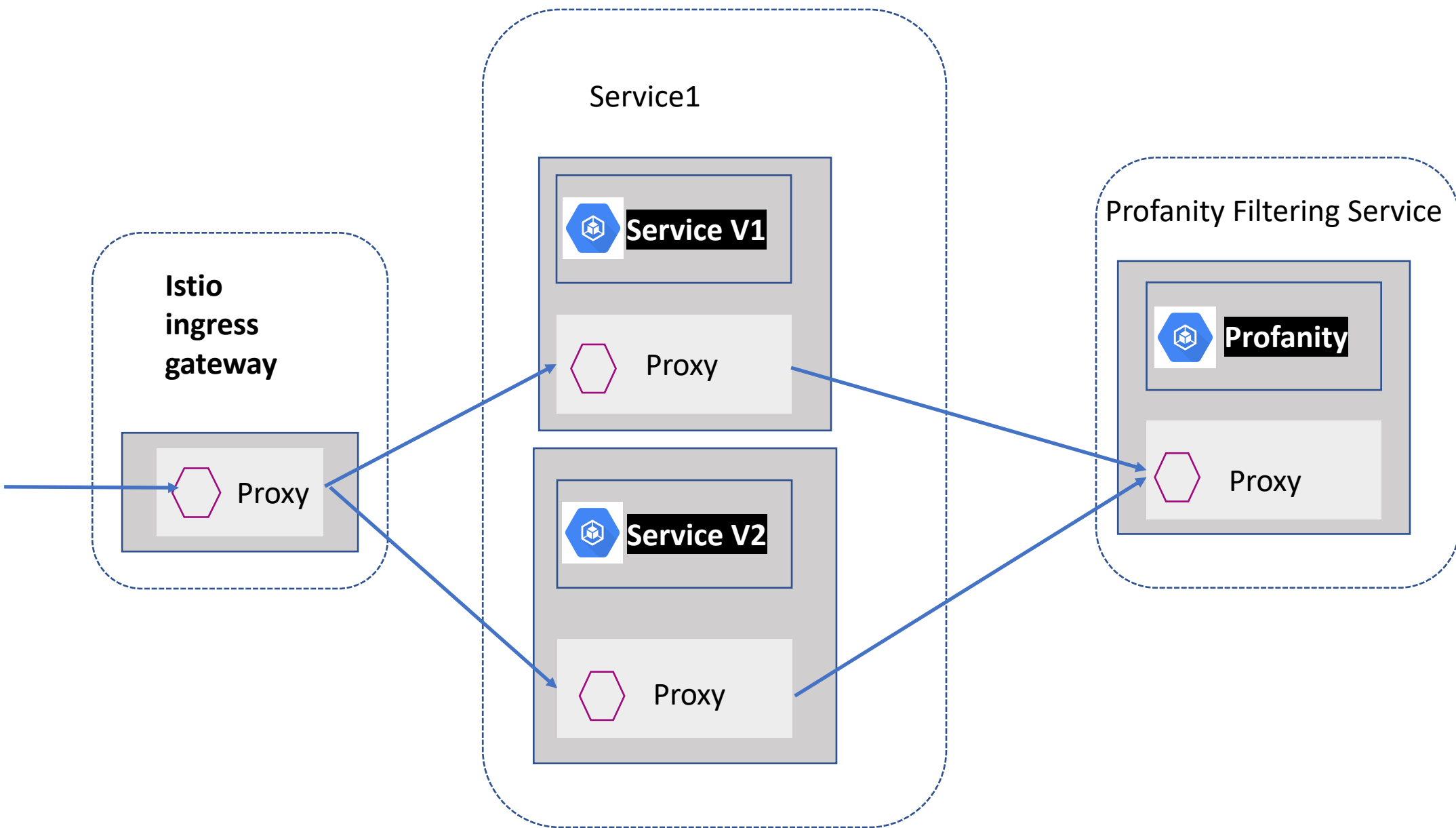


# Service Mesh with Istio on EKS

# Istio Architecture



1. <https://istio.io/docs/concepts/what-is-istio/>
2. <https://blog.envoyproxy.io/service-mesh-data-plane-vs-control-plane-2774e720f7fc>



# Rate limiting

- <https://istio.io/docs/tasks/policy-enforcement/rate-limiting/>
- <https://istio.io/docs/reference/config/policy-and-telemetry/adapters/redisquota/>
- <https://istio.io/docs/reference/config/policy-and-telemetry/attribute-vocabulary/>
- <https://istio.io/docs/reference/config/policy-and-telemetry/expression-language/>

# Whitelist

- <https://istio.io/docs/tasks/policy-enforcement/denial-and-list/>
- <https://istio.io/docs/concepts/policies-and-telemetry/>

# Request Routing

- One of the most powerful features a service mesh provides.
- Route particular requests marked by selected HTTP header to specific targets behind the load balancer, allowing easy canary deployment testing and other creative use cases.
- That is possible only with a layer 7 proxy. No layer 4 load balancer or proxy can achieve that functionality.

# Service Monitoring and Tracing

- <https://istio.io/docs/tasks/telemetry/>
- <https://istio.io/docs/examples/telemetry/>