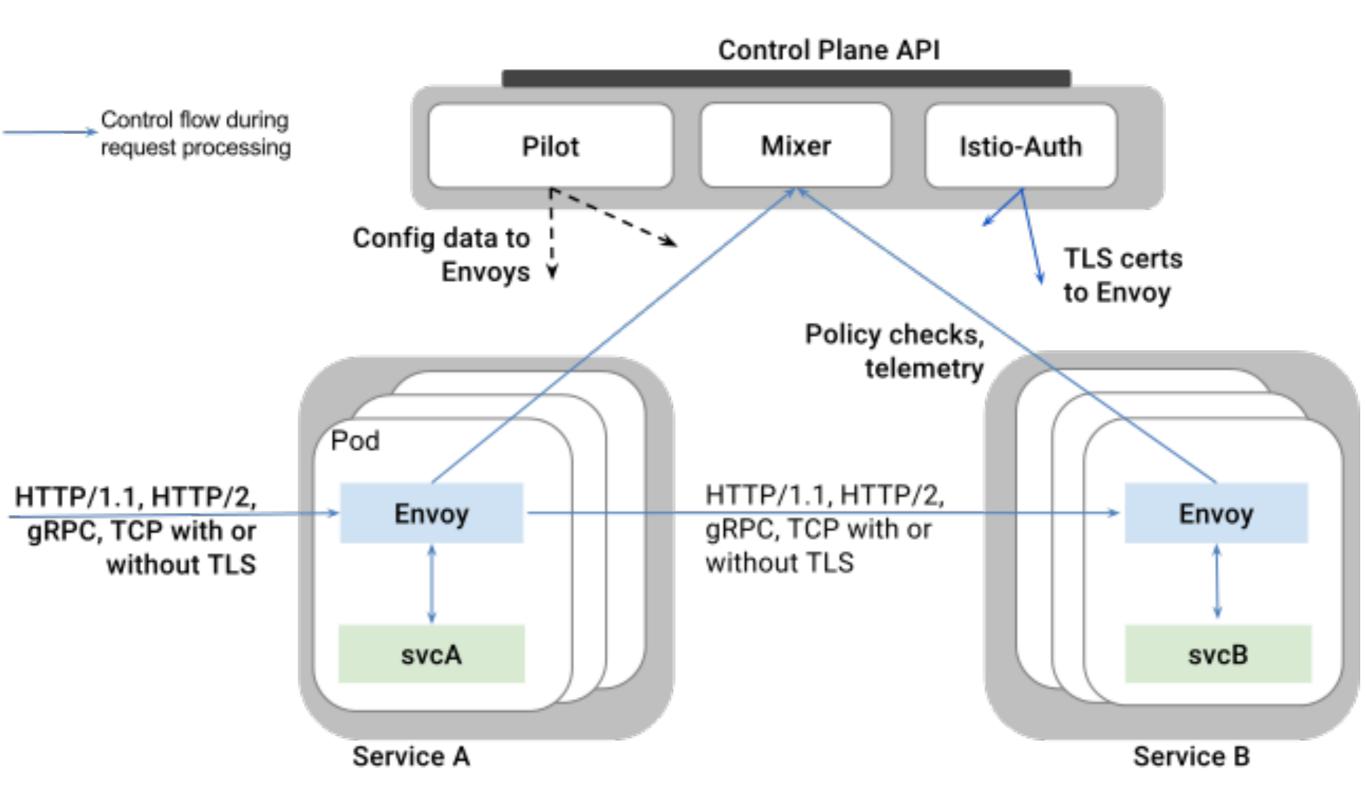


#### WHAT DOES ISTIO PROVIDE?

- Authentication
- Secure communication
- Load balancing
- Traffic routing
- Metrics
- Polyglot

- Quotas
- Rate limiting
- Circuit breakers
- Automatic retries
- Tracing
- Transparent integration

#### ISTIO DIAGRAM



- Istioct
- Envoy
- Mixer
- Pilot
- Istio-Auth

- Istioctl
- Envoy
- Mixer
- Pilot
- Istio-Auth

- Istio configuration command line utility
- Allows to create, modify and delete istio configurations.

- Istioctl
- **Envoy**
- Mixer
- **Pilot**
- Istio-Auth

Envoy proxy, a high-performance proxy.

Dynamic service discovery, load balancing, TLS termination, HTTP/2 & gRPC proxying, circuit breakers, health checks ...

- Istioctl
- Envoy
- Mixer
- Pilot
- Istio-Auth

Mixer enforces access control and usage policies, collects telemetry data.

- Istioctl
- Envoy
- Mixer
- **Pilot**
- Istio-Auth

Pilot collects and validates configuration, and propagates it to the envoy proxy

- Istioctl
- Envoy
- Mixer
- **Pilot**
- Istio-Auth

Istio-Auth provides service-to-service and end-user authentication using mutual TLS.

# ISTIO "ADDONS"

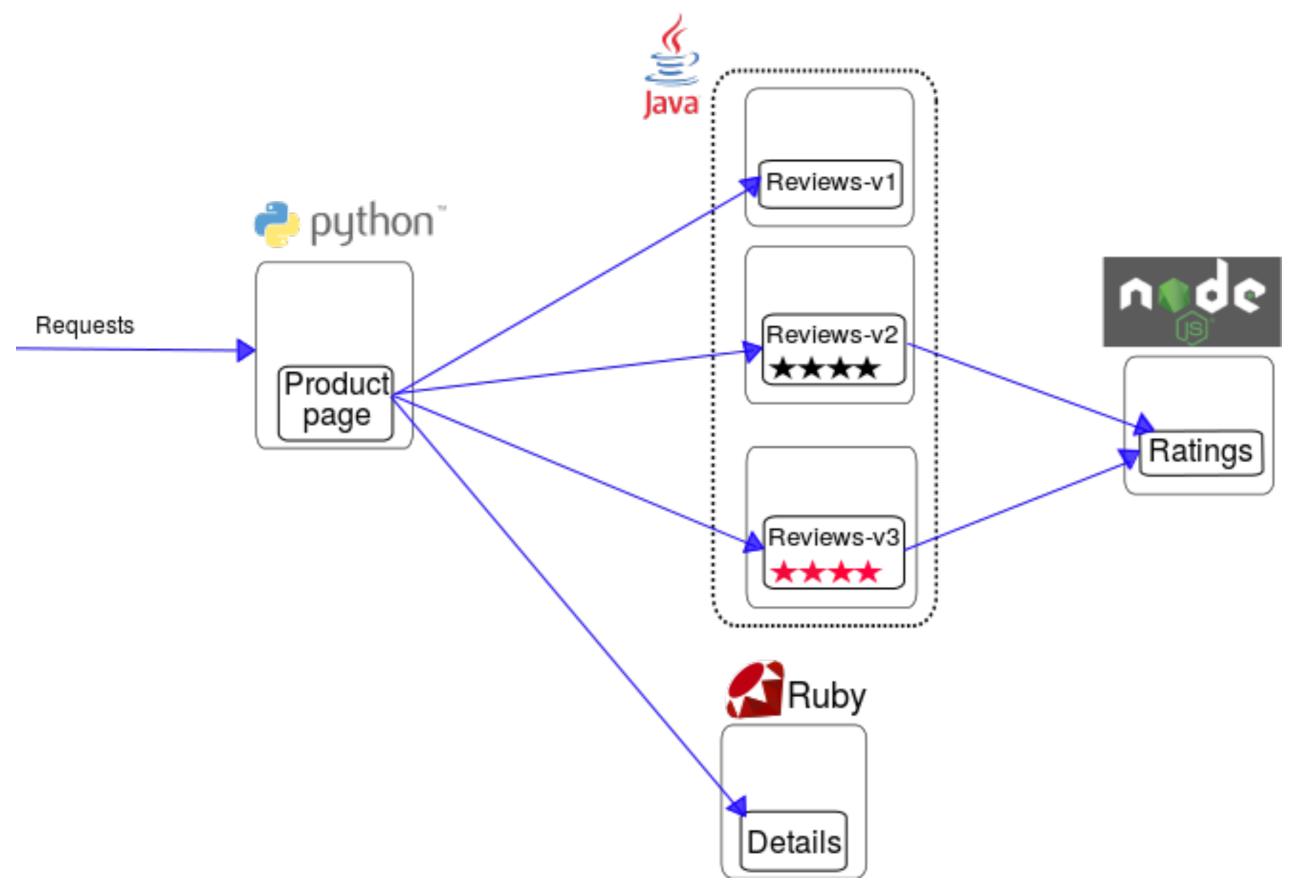
- Prometheus
- Zipkin
- Grafana
- ServiceGraph



## DEMO ENVIRONMENT

- Openshift v1.5.1
- Kubernetes v1.5.2
- ▶ Istio 1.6
- Docker 17.03.1-ce

# BOOKINFO APP \*NO ISTIO\*



## BOOKINFO APP \*ISTIO\*

