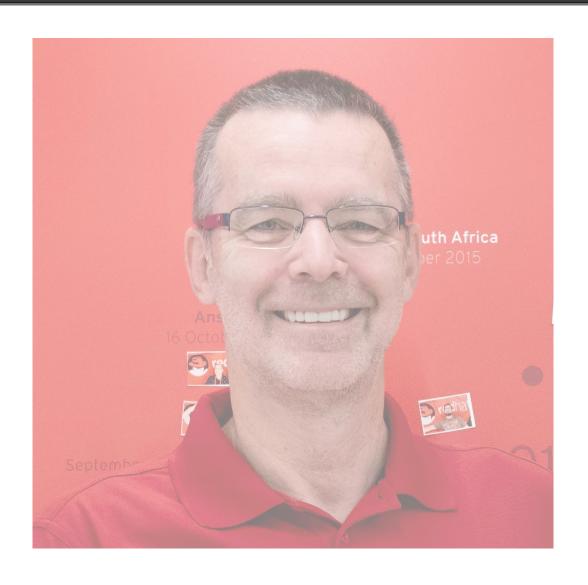


Red Hat Service Mesh

Robert Baumgartner
Senior Solution Architect Middleware
Olaf Meyer
Senior Consultant

Who are we



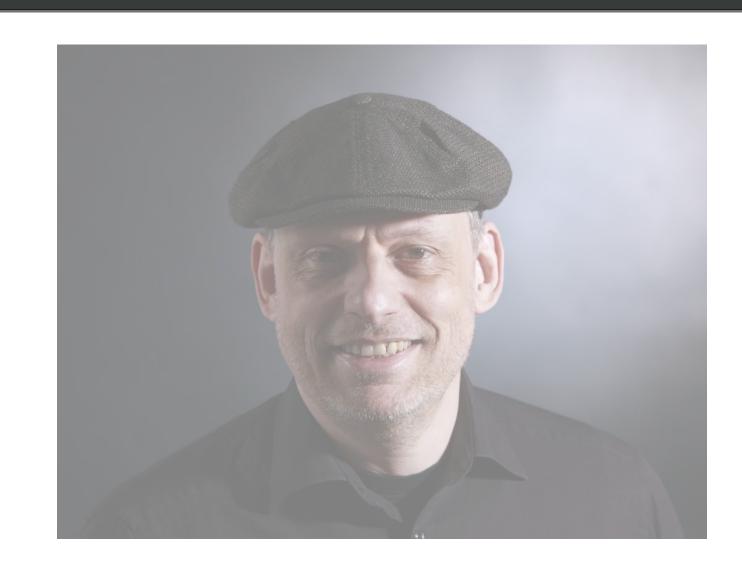
Robert Baumgartner

E-Mail: robert.baumgartner@redhat.com

Article:

https://blog.openshift.com/enabling-monitoring-and-sc

aling-of-your-own-services/application



Olaf Meyer

E-Mail: olaf.meyer@consol.de

Twitter: @ola_mey

Article: https://labs.consol.de + Tag OpenShift



What does Ops and Security want from your apps?

Visibility & Reporting

Resilience & Fault Tolerance

Routing & Traffic Control

Identity & Security

Policy Enforcement



How does this affect your application?

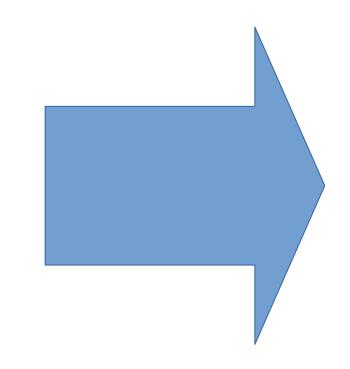
Visibility & Reporting

Resilience & Fault Tolerance

Routing & Traffic Control

Identity & Security

Policy Enforcement



App	licati	ior

Business Logic			
Service Discovery	Load Balancing		
Circuit Breaker	Traffic Control		
Monitoring	Tracing		

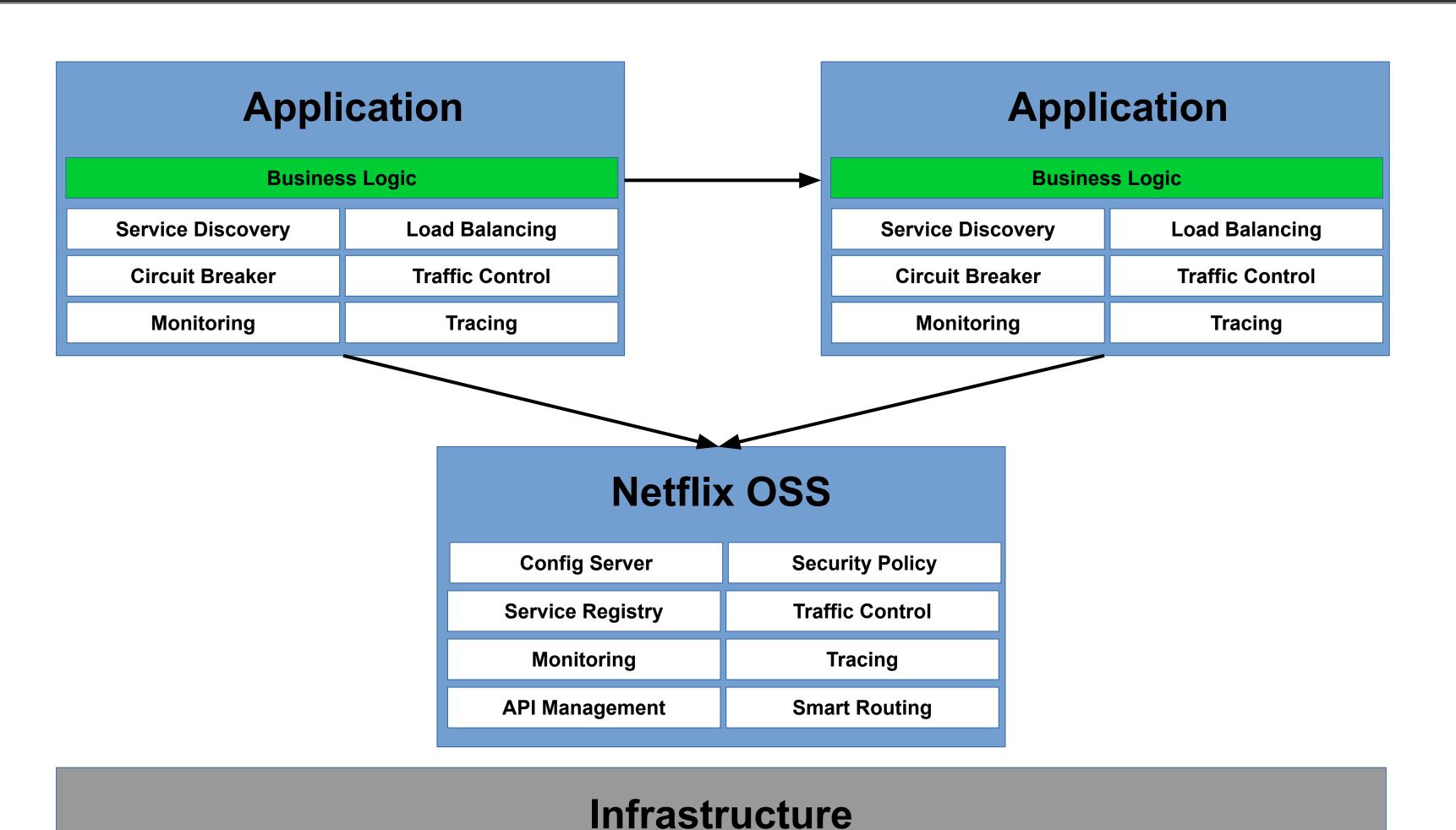
Netflix OSS

Config Server	Security Policy	
Service Registry	Traffic Control	
Monitoring	Tracing	
API Management	Smart Routing	

Infrastructure



Overview for two applications

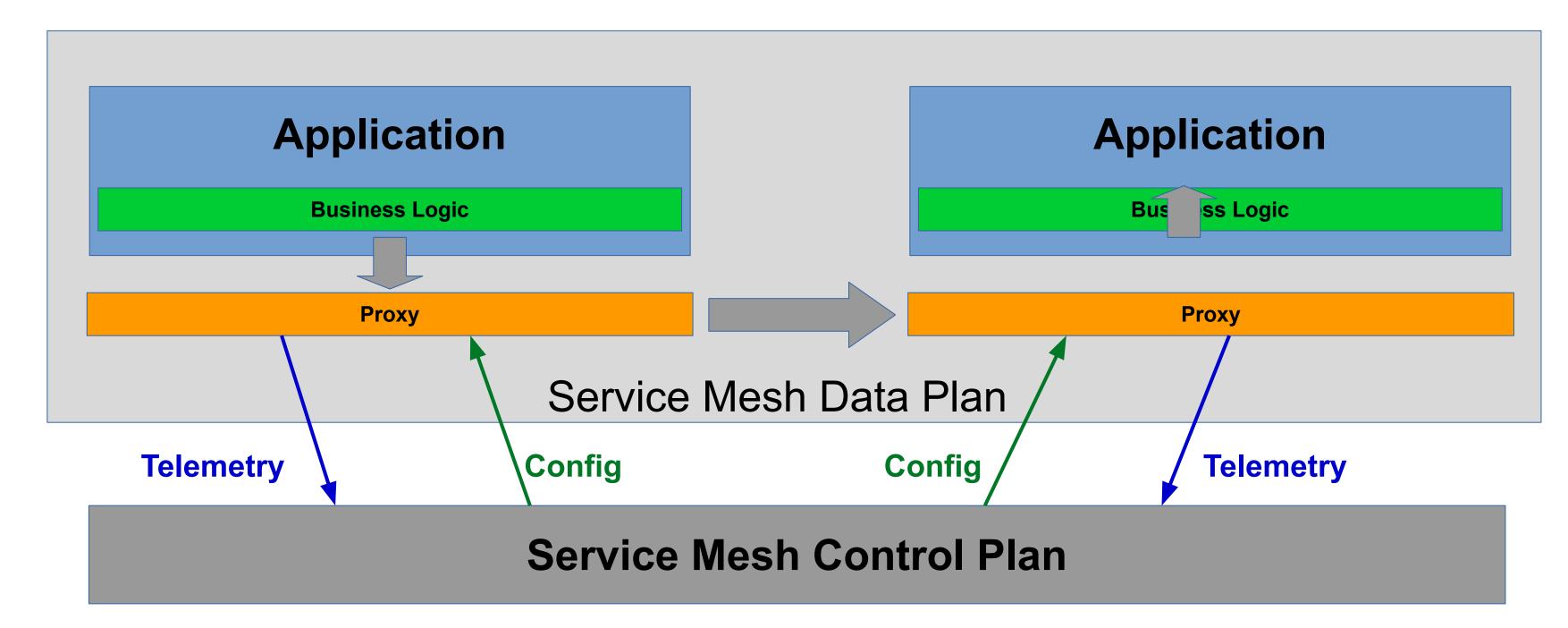


Used frameworks are only available for a defined set of frameworks and or programming languages

How does this work for off-the-shelf-apps?
Good luck if you need to integrate your ERP



How does a service mesh work?



No code changes in application required!!!

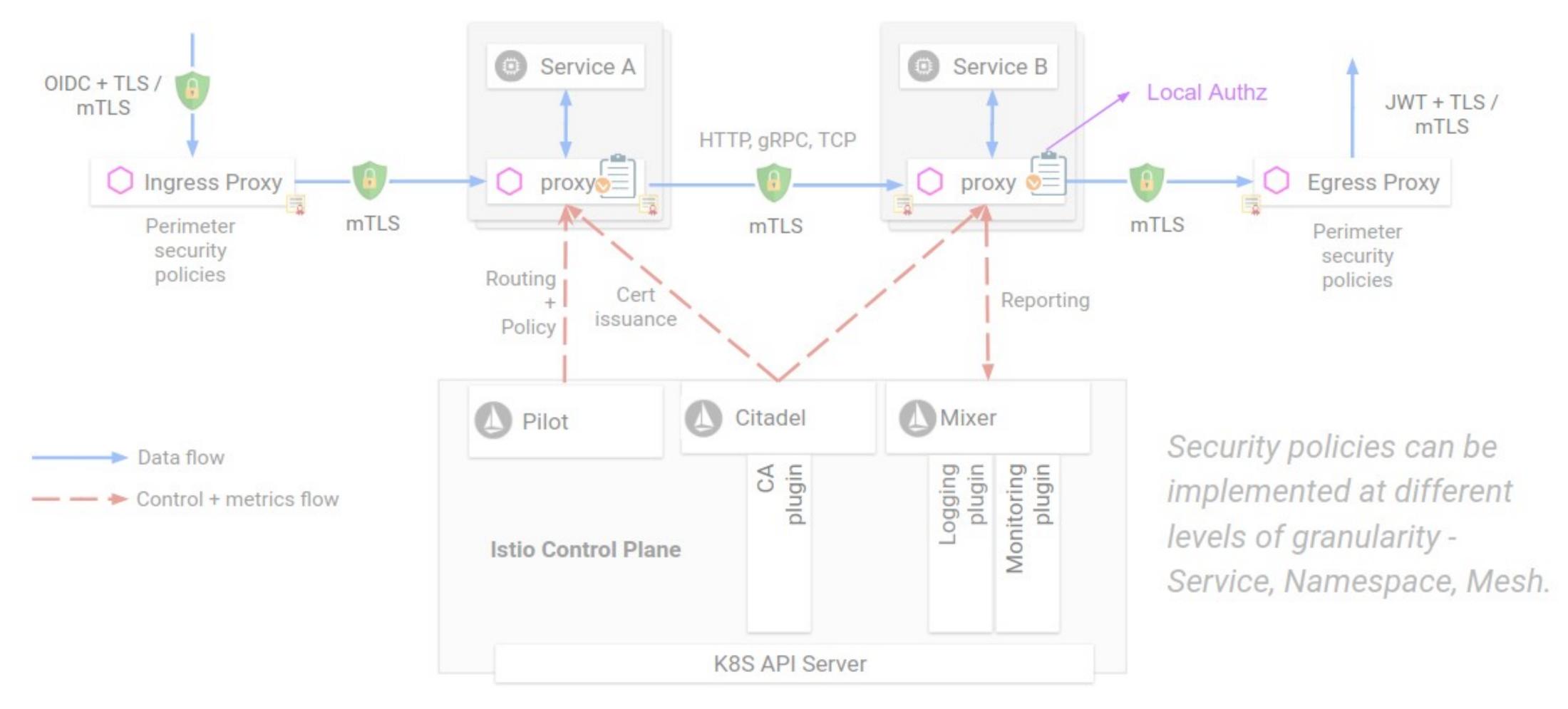
Popular service meshes are:

- . Istio → Red Hat Service Mesh
- . Linkerd
- . Consul Connect

• • • •



High-level architecture of Istio

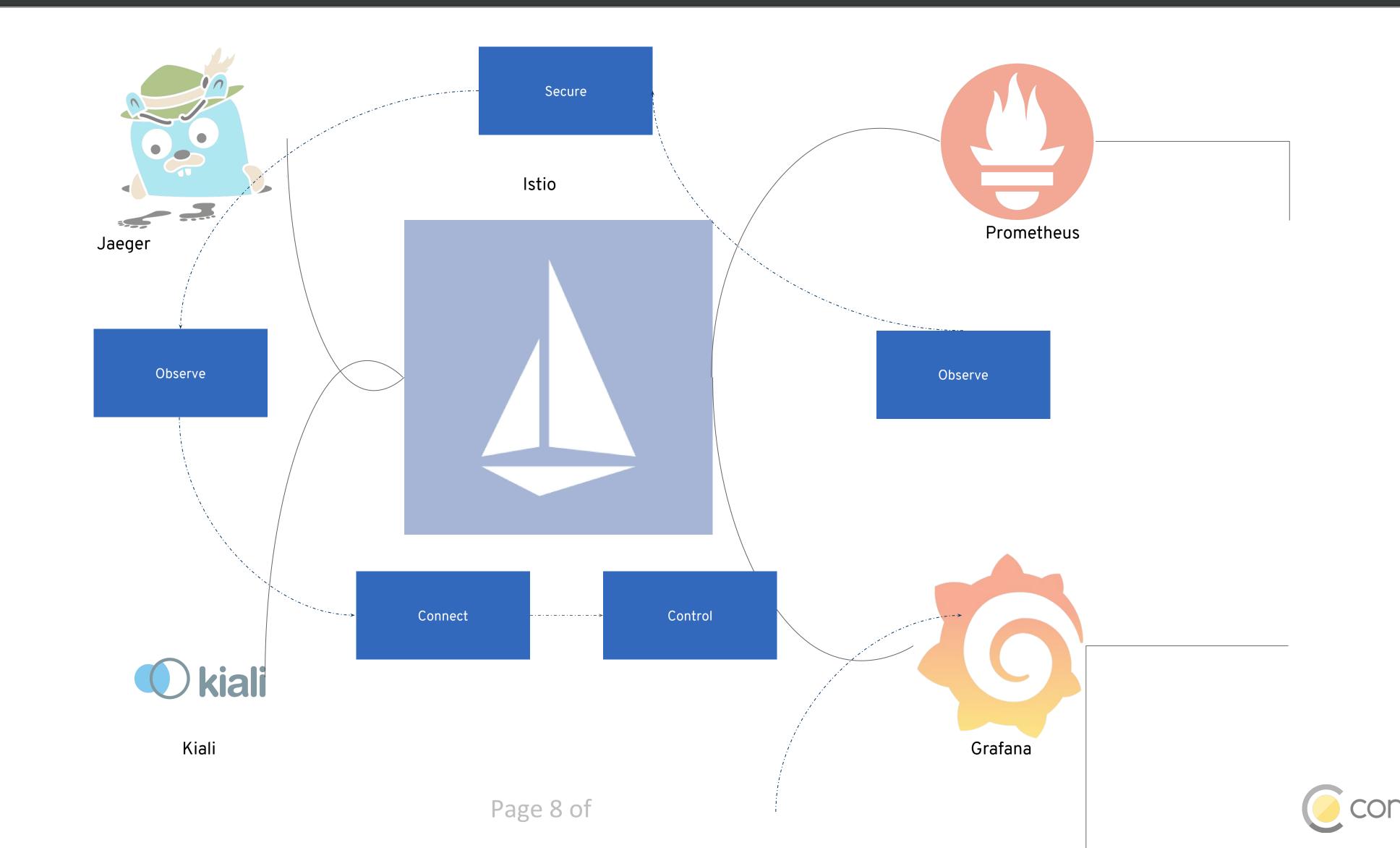


Source: https://istio.io/docs/concepts/security/

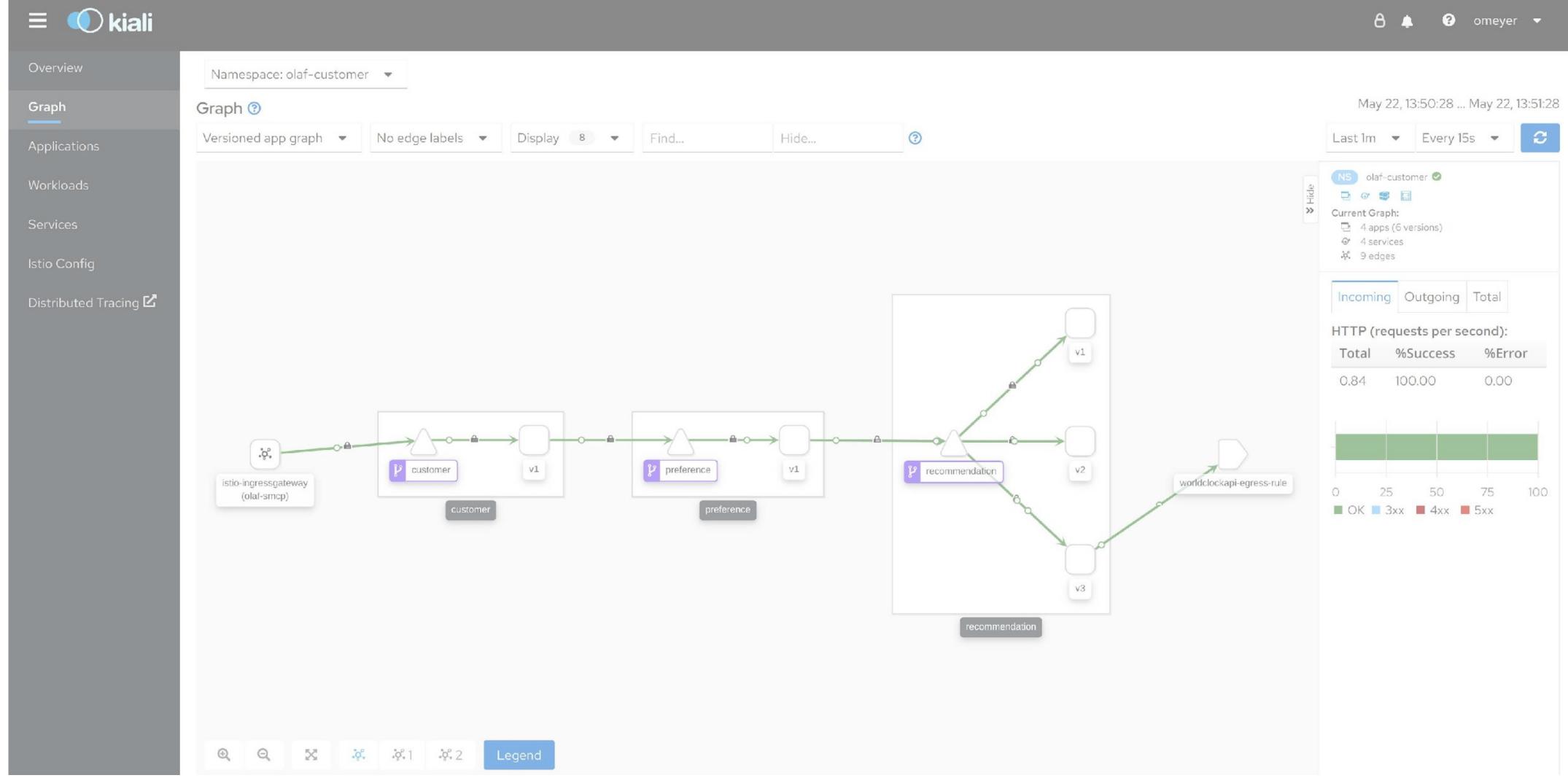


Applications in Istio/Red Hat Service Mesh ecosystem

Red Hat Service Mesh

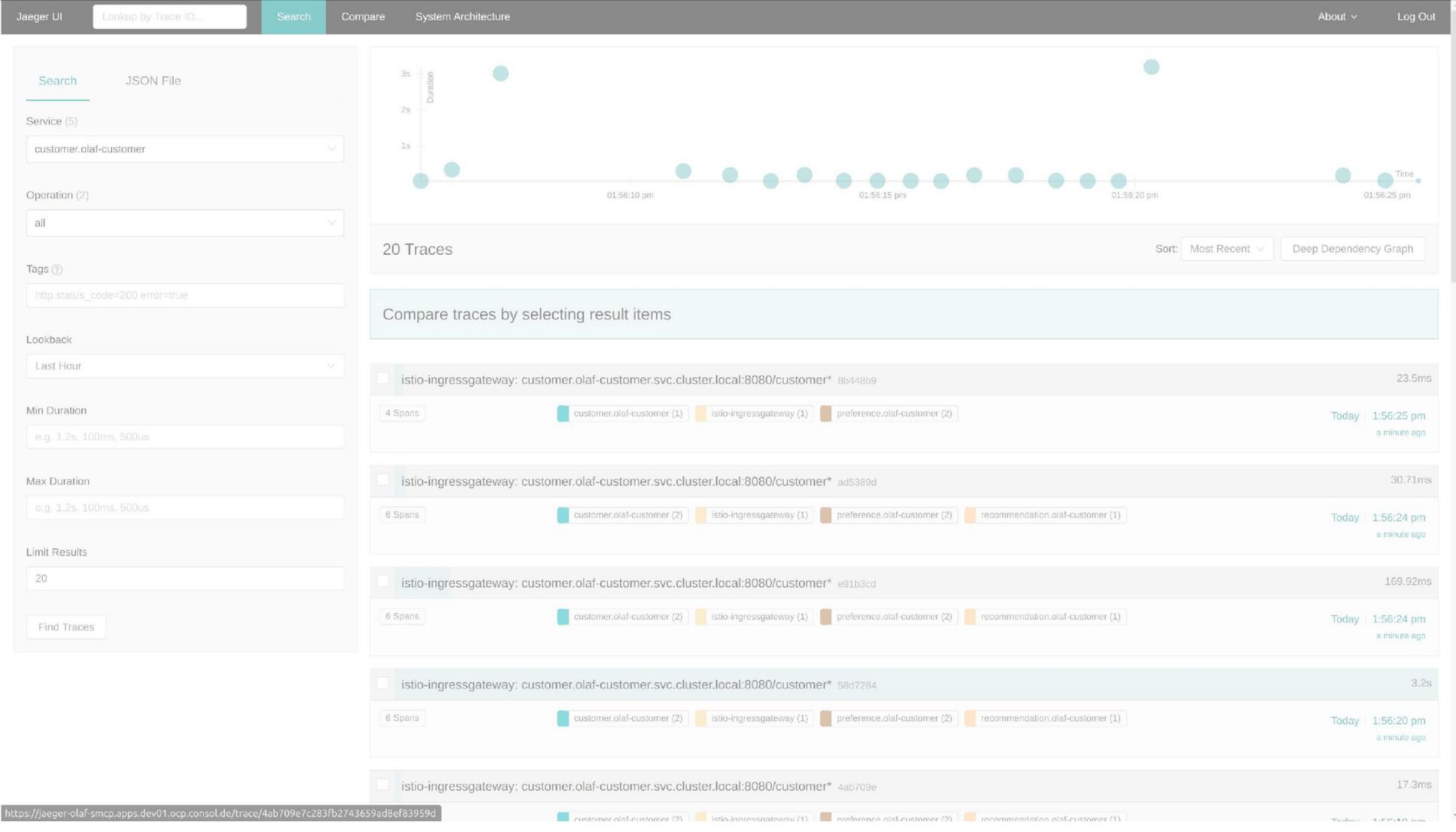


Kiali





Jaeger





Thank you!



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