

# Aspen Mesh

Aspen Mesh provides observability, control and security to simplify how you manage microservices.

## Aspen Mesh Overview

Operating a complex microservices architecture is hard. A service mesh makes it easier by providing a transparent infrastructure layer that makes service-to-service communication secure, uniform and observable. Aspen Mesh is the fully supported service mesh that takes the burden out of managing microservices.



## Aspen Mesh Platform

Aspen Mesh is a service mesh for Kubernetes. It's built on Istio, and includes a hosted service for operating your mesh, and an agent to connect the two.

## Benefits



### Service Mesh Made Easy

With Aspen Mesh, you get full support. We provide the help you need to easily get started.



### Reduced Cost

Hosted SaaS reduces TCO. Our fully managed SaaS portal saves you time and money.



### Immediate Visibility

Know exactly what's going on with your microservices with immediate alerts into any problems in your mesh.



### A Holistic View

Easily see what's happening across your mesh with our analytics dashboard. Its intelligent UI surfaces service failures and root causes.



### Quickly Iterate

Aspen Mesh Experiments lets you securely test and qualify new versions of services in a production environment without disrupting users.



### Know You're Secure

mTLS status and insight into certificate expiration times lets you know your mesh is secure and when it won't be.

# Components



Envoy provides a set of capabilities that address runtime issues including load balancing, service discovery, routing and observability.



Istio provides policy and configuration for the running data planes, turning them into a distributed system that makes it simple to operate.



Prometheus collects telemetry data and exports it to the Aspen Mesh Cloud Service.



Grafana provides a visual dashboard to visualize metric from Prometheus.



Jaeger provides the ability to do distributed tracing within your applications.



Aspen Mesh runs in your cluster and exports data and configuration to the Aspen Mesh Cloud which provides monitoring, alerting, dashboarding and other services.

## The Aspen Mesh Dashboard

