If you are operating or developing in a microservices architecture, there is a good chance part of your day is spent wondering what your services are up to. It is frustrating to move from service to service and must relearn everything; how it is configured, what telemetry you will have, how it manages certs and keys.

With the adoption of microservices, problems emerge due to the sheer number of services that exist in large systems. Issues like security, load balancing, monitoring and rate limiting. Aspen Mesh builds on the Istio framework native to OpenShift by enhancing the control plane functionality by adding Traffic Claim Enforcer, Istio Vet, Analytics Engine, and Dashboards.

Aspen Mesh adds observability, security, and policy capabilities to Red Hat OpenShift (OCP). The resulting resiliency and uptime enable engineering teams to monitor, control and secure the modern application at runtime more effectively. Also, service mesh is a common layer, meaning these tools are available at each microservice.

Executive summary

Companies are leveraging microservices to drive differentiation and market leadership and deliver faster time to value. As a side effect, they realize that they are increasing complexity and decentralizing ownership and control. Aspen Mesh ensures that security policies, traffic management and insight into your microservices applications can be maintained.

Product profile

The Aspen Mesh product works in concert with OCP as the leading distribution of Kubernetes in the market. Our tested and validated integration with Red Hat OCP provides customers the assurance that our solutions will be deployed seamlessly in production.
"Developers and architects looking to build new applications in, and for the cloud, or migrate existing applications to a cloud-based infrastructure, partner with Red Hat to develop and deliver more supportable solutions sooner,” said Mike Werner, Sr. Director, Global Technology Partners, Red Hat. “Red Hat certification assures a supportable platform for all types of customer deployment models. Red Hat is thrilled to work with software partners like F5 resulting in the world’s largest open, and commercially supportable application ecosystem.”

Product benefits

The benefits of Aspen Mesh include: a powerful UI for configuring and managing your service mesh, insightful health checks into your environment, enabling powerful and detailed troubleshooting of service outages and failures and finally the ability to create programmable performance thresholds around latency and error acceptability.

Aspen Mesh addresses the runtime challenges associated with the migration from monolithic to microservices based infrastructures by providing services to act as the backbone of the microservices environment. These include: load balancing, ingress and egress control, traffic shaping, distributed tracing, metrics collections, policy configuration and security.

Use cases

The following use cases are examples of how Aspen Mesh adds stability and scalability.

- Advanced Policy and Security
- Intuitive Dashboard for Deep Microservices Visibility
- Analytics and alerting functionality

Learn more

Company: Aspen Mesh  Email: sales@aspenmesh.io  www.aspenmesh.io

The Aspen Mesh Story

Aspen Mesh is a team of experts with a history in network programmability and infrastructure. We built software that was an early version of service mesh before the term service mesh existed. Our history working with early releases of Istio came from our work with early versions of Kubernetes and the clarity of the value of service mesh due to our experience with containers and container orchestration.

About Red Hat

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.