

Kong Mesh

Universal service mesh for enterprise organizations focused on simplicity, security and scalability with Envoy

Organizations are transitioning to distributed software architectures to support and accelerate innovation, gain digital revenues and reduce costs. A successful transition to microservices requires that services are connected reliably with minimal latency, protected with end-to-end security, discoverable and fully observable.

Kong Mesh is an enterprise-grade service mesh that runs on both Kubernetes and VMs on any cloud. Built on top of the open source, Envoy-based service mesh Kuma and focused on simplicity, Kong Mesh enables microservices transformation with out of the box service connectivity and discovery, zero-trust security, traffic reliability and global observability across all traffic including cross-cluster deployments. Kong Mesh includes enterprise technical support to mitigate risk in case of service disruptions or outages.

Benefits

Kong Mesh enables your organization to



Ensure service connectivity and traffic reliability

Apply out-of-box traffic management across any platform and cloud to meet expectations and SLAs



Achieve Zero-Trust Security

Restrict access by default, encrypt all traffic, and only complete transactions when identity is verified



Gain global traffic observability

Gain a detailed understanding of your service behavior to increase application reliability and the efficiency of your team

Why Kong Mesh?

Kong Mesh is unique among service meshes in allowing you to:



Start, secure and scale with ease

Deploy a turnkey service mesh with a single command. Group services by attributes to efficiently apply policies. Manage multiple service meshes as tenants of a single control plane to provide scale and reduce operational costs



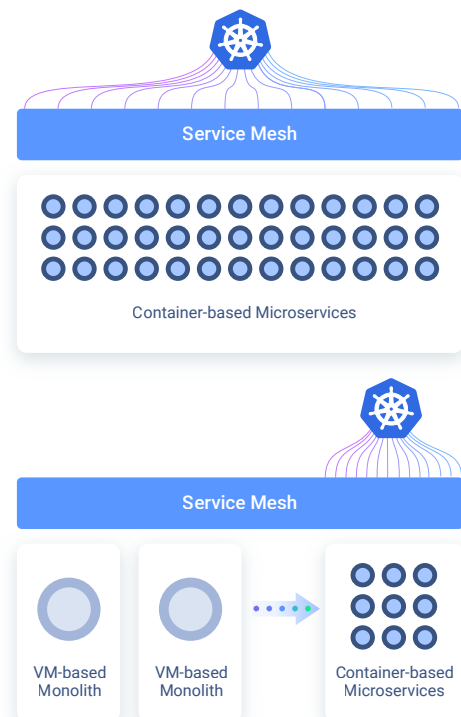
Run anywhere

Deploy the service mesh across any environment, including multi-cluster, multi-cloud and multi-platform. Manage service meshes natively in Kubernetes using CRDs, or start with a service mesh in VM environments and migrate to Kubernetes at your own pace

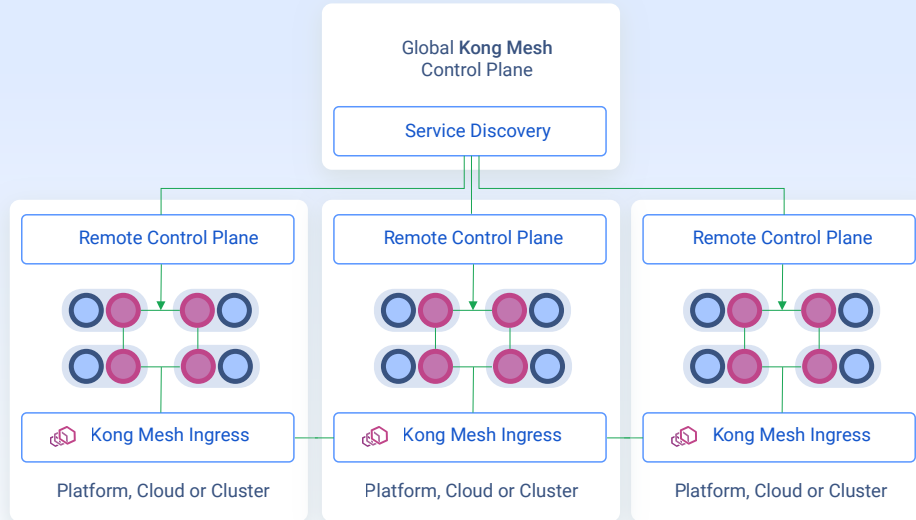


Connect services end-to-end

Integrate into the Kong Enterprise platform for full stack connectivity including Ingress and Egress traffic for your service mesh. Expose mesh services for internal or external consumption and manage the full-lifecycle of APIs.



Kong Mesh features include:



Hybrid Universal Mode

Enables service meshes to run and communicate simultaneously on heterogeneous environments out-of-the box, including VMs, data centers and multiple Kubernetes clusters.

Advanced Control Plane Replication

Replicating Kong Mesh as a global control plane provides visibility across all meshes, and replicating Kong Mesh as a remote control plane allows scaling to manage services across one or more clusters.

Ingress Data Plane Mode

Automates cross-platform and cross-cluster service mesh communication out-of-the-box, which previously would take months of set-up effort for enterprises.

Multi-zone DNS Service Discovery

A native universal DNS service discovery API enables operational visibility by abstracting away underlying services running across multiple platforms and clusters, as if these were all in one cluster.

Software Defined Security

Enable mTLS for all L4 traffic. Permissions can also be easily set to ensure appropriate access control.

Sophisticated Routing & Control

Provide fine-grained traffic control capabilities, such as circuit breakers and health checks, to enhance L4 routing. Easily implement blue/green deployments and canary releases to alleviate the stress of deploying new versions and/or features into your service mesh.

Monitoring with Prometheus and Grafana

Natively integrate with Prometheus for auto-discovery and metrics collection, and then use Grafana dashboards to monitor performance and ensure service mesh health

L7 tracing

Identify system failures and performance bottlenecks by configuring tracing on L7 HTTP traffic with Kong Mesh's TrafficTrace policy.

Attribute-based segmentation

Group services by attributes to efficiently manage operations at scale.

Kubernetes-native support

Natively manage services running in Kubernetes through CRDs to ensure a single source of truth for configurations.

Trusted by 550+ enterprises worldwide



Honeywell



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