



SERVICE DESCRIPTION

Kong Mesh

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The following is an overview of the Kong Mesh offering which is subject to change.

Kong's products and offerings are subject to constant evolution and Kong reserves the right to change them and this service description at any time in its sole discretion.

Kong Mesh

Kong Mesh is an enterprise service mesh that runs on both Kubernetes and Virtual Machines (VMs) on any cloud and multi-cluster. Built on top of Cloud Native Computing Foundation's (CNCF) Kuma* and Envoy, Kong Mesh enables the microservices transformation with:

- Out-of-the-box service connectivity and discovery
- Zero-trust security
- Traffic reliability
- Global observability across all traffic, including cross-cluster deployments

* Kuma itself was originally created by Kong and donated to CNCF to provide the first neutral Envoy-based service mesh to the industry. Kong is the primary maintainer of Kuma, which is the foundation for Kong Mesh.

Kong Mesh extends Kuma and Envoy with enterprise features and support, while providing native integration with [Kong Enterprise](#) for a full-stack connectivity platform for all of customers' services and APIs, across every cloud and environment.

Kong Mesh provides a combination of features in the service mesh ecosystem, specifically designed for the enterprise architect, including:

- Universal support for both Kubernetes and VM-based services.
- Single and Multi Zone deployments to support multi-cloud and multi-cluster environments with global/remote control plane modes, automatic Ingress connectivity, and service discovery.
- Multi-Mesh to create as many service meshes as needed, using one cluster with low operational costs.
- Easy to install and use and turnkey, by abstracting away all the complexity of running a service mesh with easy-to-use policies for managing services and traffic.
- Full-Stack Connectivity by natively integrating with Kong and Kong Enterprise for end-to-end connectivity that goes from the API gateway to the service mesh.
- Powered by Kuma and Envoy to provide a modern and reliable CNCF open source foundation for an enterprise service mesh.

When used in combination with Kong Enterprise, Kong Mesh provides a connectivity platform for L4-L7 connectivity, for both edge and internal API traffic.

Kong Mesh allows customers to:

1. Deploy a single control plane that can scale horizontally to many data planes, or support multiple clusters or even hybrid service meshes running on both Kubernetes and VMs combined.
2. Simplify cross zone communication using an Envoy-based ingress deployment on both Kubernetes and VMs, as well as the built-in DNS resolver for service-to-service communication.
3. Built on top of Envoy with 50+ observability charts out of the box, you can collect metrics, traces and logs of L4-L7 traffic.
4. Integrate with Kong Ingress Controller to implement authentication, transformations, and other functionalities across Kubernetes clusters with zero downtime.
5. Configure Mesh natively using an API, web UI, or with declarative configuration to manage updates via your CI/CD pipelines.



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