

Microsegmentation

Deploy scalable, unified microsegmentation for cloud-native workloads across all of your environments: hosts, virtual machines, containers, and Kubernetes

Overview

Every cloud and hosting environment has a unique approach to segmentation, which leads to operational overhead and security gaps when segmenting traffic within and between these environments. Calico's unified policy framework works across all of your workloads, including hosts, virtual machines (VMs), containers, Kubernetes, and applications, and scales to meet the expansion or contraction of your microservices environment.

Benefits

Eliminates lateral movement

Eliminates the risks associated with lateral movement in the cluster by threat actors in search of sensitive data and other high-value assets.

Works everywhere

Remove the operational inefficiencies of deploying multiple siloed segmentation solutions by providing a single, unified security model and single-policy framework that works seamlessly across multiple application and workload environments.

Instant response: Deploy updates in milliseconds

Enables faster response to security threats with a cloud-native distributed architecture that can dynamically enforce security policy changes across cloud-scale environments in milliseconds in response to an attack.

Use Cases

Zero-trust segmentation

Enable implementation of allow/deny zero trust policies to provide a defense-in-depth security posture.

Compliance

Create segmentation based on compliance policies for any compliance framework, including PCI, SOC 2, and more. Retain a daily history of your compliance status and generate on-demand or scheduled audit reports. Continuously monitor compliance for your container, Kubernetes, and cloud environment.

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Cloud-native firewall

Deploy firewall rules at the cloud-native workload level to provide granular security and control.

Stop ransomware attacks

Detect, quarantine, and fix vulnerabilities at the host, VM, container, and application levels.

Simplifying microsegmentation with Calico

Calico takes a universal approach that provides a unified, cloud-native workload segmentation model and single policy framework that renders the use of multiple siloed solutions a thing of the past. Calico's standard segmentation model and unified policy framework work across all of your environments, including any combination of cloud and hybrid providers, cloud instances, Kubernetes distributions, and containers.

Calico's unified solution is an operationally simpler replacement for costly, proprietary approaches and the skill sets required to manage them. Workloads are dynamically segmented based on identity (using metadata and labels), meaning you can securely deploy new or updated workloads without having to add or change your segmentation policies. This approach eliminates the complexity and operational overhead associated with policy management. At the same time, policy-based microsegmentation can quickly scale to meet the expansion or contraction of your microservices environment.

Calico microsegmentation feature table

VISIBILITY DEPTH & BREADTH	Calico Cloud / Enterprise
Dynamic Service graph for live view of activity	Yes
Automated endpoint discovery	Yes
Real-time & historical visualization of all communication	Yes
Granular, live view of workloads & communications	Yes
Automatic service dependency map generation	Yes
Purpose-built visualizations to aid policy development	Yes

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POLICY CREATION AND ENFORCEMENT	Calico Cloud / Enterprise
Zero trust policy model	Yes
Denylist policy model	Yes
Hybrid policy model	Yes
Automatic policy generation	Yes
Build and test policies before enforcement	Yes
Hierarchical policies	Yes
New workloads automatically inherit policies	Yes
Role-based views with policies scoped to application and location	Yes

SEGMENTATION GRANULARITY	Calico Cloud / Enterprise
Workload segmentation	Yes
Environment segmentation	Yes
Application-tier segmentation	Yes
Container-level segmentation	Yes
Kubernetes segmentation	Yes
Regulatory compliance-based segmentation	Yes
Dynamic segmentation	Yes

BREACH DETECTION AND RESPONSE	Calico Cloud / Enterprise
Vulnerability detection for files, IP addresses, domains, and DNS	Yes
Honeypot/Honeypod capabilities	Yes
Incident response integration	Yes
Built-in intrusion detection & prevention with cloud-native firewall	Yes

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About Tigera

Tigera empowers organizations to secure, observe, and troubleshoot containers, Kubernetes, and cloud. Our commercial products include Calico Enterprise, a self-managed security and observability platform, and Calico Cloud, a Kubernetes-native cloud service that extends the declarative nature of Kubernetes. Our open-source offering, Calico Open Source, is the most widely adopted container networking and security solution. Tigera's solutions specify security and observability as code to ensure consistent enforcement of security policies, which enables DevOps, platform, and security teams to protect workloads, detect threats, achieve continuous compliance, and troubleshoot service issues in real-time.

Powering more than 100M containers across 1.5M nodes in 166 countries, Calico software is supported across all major cloud providers and Kubernetes distributions and is used by leading companies including AT&T, Discover, Merck, ServiceNow, HanseMerkur, RealPage, L3Harris, and Mindbody.

To learn more about microsegmentation, read our whitepaper “A step-by-step guide for implementing microsegmentation.”

[Download Now](#)

Get hands-on experience with microsegmentation and more with a free trial of Calico Cloud.

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