

CA Microgateway

At A Glance

CA Microgateway is a lightweight, containerized API gateway that is designed to scale within highly decentralized environments, including microservices architectures. CA Microgateway is easily deployable and configurable by developers at design time using provided templates and integrates with DevOps toolchains for scripted production deployments. It supports common patterns for microservices, including service discovery, circuit breakers, routing and last mile security, and can be extended to support new or custom use cases by creating new templates.

KEY BENEFITS BY PERSONA

- **Enterprise architect.** Enterprise security policy as embedded infrastructure for developers, providing autonomy while addressing security needs
- **Developers.** Shorter time to value to securely implement and expose microservices and APIs
- **DevOps.** Integration with industry standard DevOps toolchains for scripted production deployments

KEY FEATURES

- **Lightweight.** Containerized gateway can be configured in a microservice architecture for security, management and orchestration. CA Microgateway is also ideal for deployment at remote locations as part of a secured API management solution, as well as for capturing machine data for integration into modern applications
- **Policy templates.** Simple, extensible policy templates enable microservices developers to easily proxy and secure their APIs
- **Patterns.** Supports common microservice patterns by providing service discovery, rate-limiting and last-mile security
- **Deployment.** Easily accessible from common developer platforms deployed and managed using Docker. Can be incorporated into industry-standard DevOps processes

Business Challenges

The adoption of DevOps and microservices is creating a fundamental change in how applications are developed and maintained. It is also changing how enterprises select, buy and use tools and infrastructure.

The traditional model of creating monolithic applications requires long development and release cycles. Developers are slowed by the need to address common, repetitive (but critical) application capabilities. It's also difficult to modify for new endpoints and tough to incorporate into DevOps.

To speed time to market, many organizations are building applications using smaller, lightweight services that facilitate rapid, automated deployment and more frequent changes, and are independently scalable.

However, open source microservices often fail to address issues such as discovery, traffic management and mitigation, decentralized security, and the need for governance.

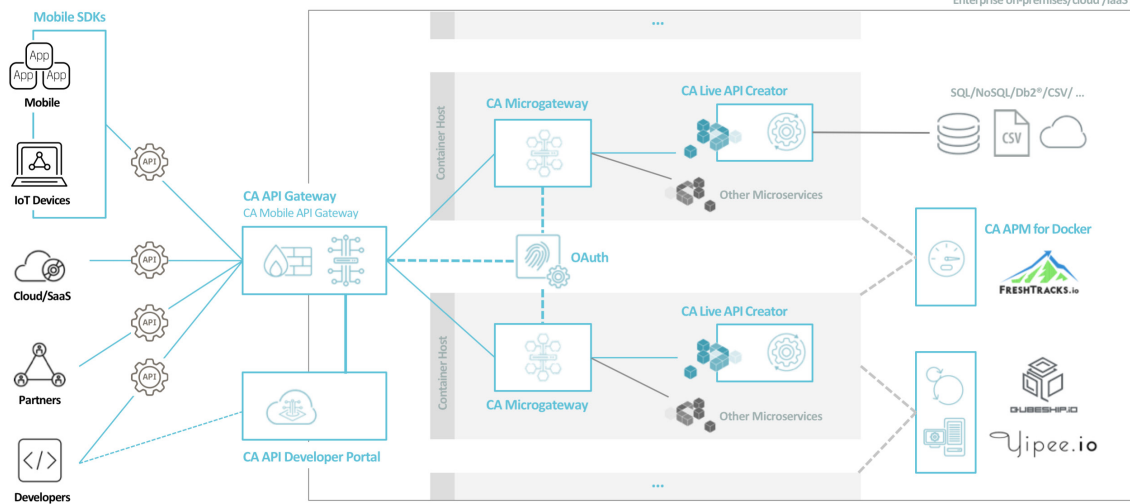
Solution Overview

CA Microgateway is a lightweight, containerized gateway designed to scale within highly decentralized environments. It supports common microservices patterns by providing service discovery, routing, rate-limiting and last-mile security, and is easily deployable and configurable by developers at design time using provided policy templates.

CA Microgateway integrates with industry-standard DevOps tools for scripted production deployments. It can also be extended to support custom/new use cases by creating and baking in new templates.

Developers can embrace new devices and protocols as they emerge through APIs and microservices, and get the aggregation, orchestration and management necessary for microservice architectures of any size.

Modernizing Architecture With APIs and Microservices



Critical Differentiators

Security. End-to-end security applied easily through templates

Traffic control. Dynamic traffic management for incoming and outgoing traffic, and communications between microservices

API mitigation. Easily and quickly aggregate and orchestrate API interfaces to microservices, hiding their granularity and complexity using built-in templates

Flexibility/extensibility. New policy template framework allows developers to build new extensions/templates using the gateway's built-in assertions and encapsulated assertions

Related Products

- **API Academy** is a team of API thought leaders who provide organizations with the education and consulting they need to build better APIs and microservices.
- **CA Live API Creator** is the only automated, low-code microservices development solution and works up to 10 times faster than other approaches.
- **CA API Gateway** is containerized and deployable in Docker, providing best-in-class OAuth security and authentication to protect your business.
- **CA Application Performance Management** is a multifaceted monitoring solution for microservice architectures. Agentless monitoring automates the discovery of containers and dependencies, immediately surfacing key health indicators, such as CPU saturation, error rates and latency. This solution is further enhanced by the automated capture of container attributes and a data model that enables microservice performance to be viewed from multiple perspectives.

For more information, please visit ca.com/microservices

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