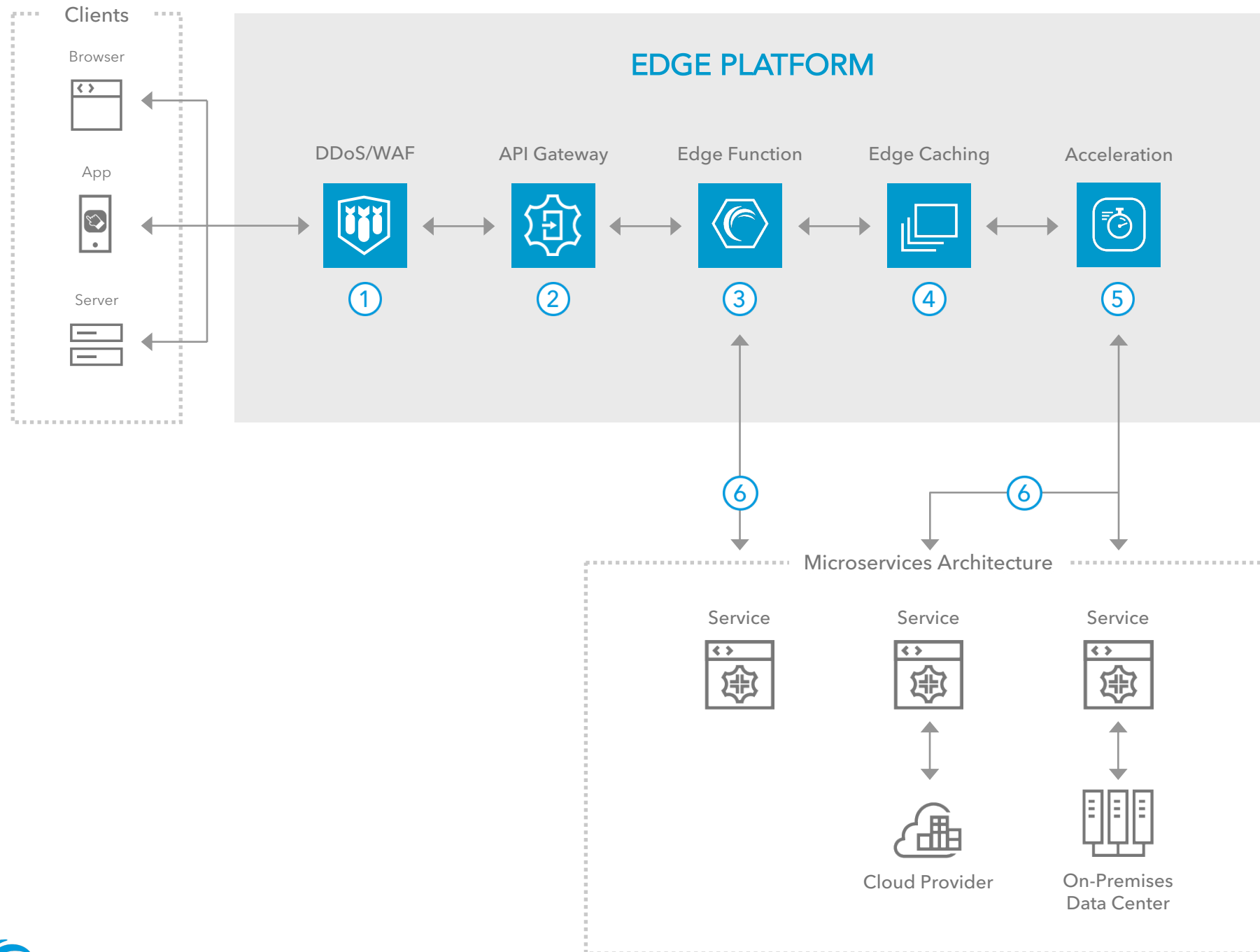


MICROSERVICES AT THE EDGE

Reference Architecture



OVERVIEW

Microservices-based architectures offer greater agility and help accelerate innovation in digital experiences. Akamai enables organizations to build applications comprising microservices deployed at the edge, in the cloud, or within on-premises data centers. Developers can harness the benefits offered by each topological location to build a more performant overall web experience for users.

- 1 Akamai protects microservices running at the edge, cloud, and data center against DDoS and web application attacks.
- 2 API gateway provides governance by authenticating, authorizing, and controlling API requests to manage access and consumption.
- 3 Customers write and run code on Akamai servers to build edge microservices with the lowest possible latency.
- 4 Edge caching improves scalability and availability for microservices running across the cloud and data center.
- 5 Acceleration applies performance and routing optimizations to improve the web experience across the application architecture.
- 6 The application infrastructure can comprise microservices deployed across the edge, multiple cloud providers, and on-premises data centers, based on requirements for each individual microservice.

KEY PRODUCTS

- DDoS/WAF ▶ Kona Site Defender or Web Application Protector
- API Gateway ▶ API Gateway
- Edge Function ▶ EdgeWorkers
- Edge Caching and Acceleration ▶ Ion or API Acceleration