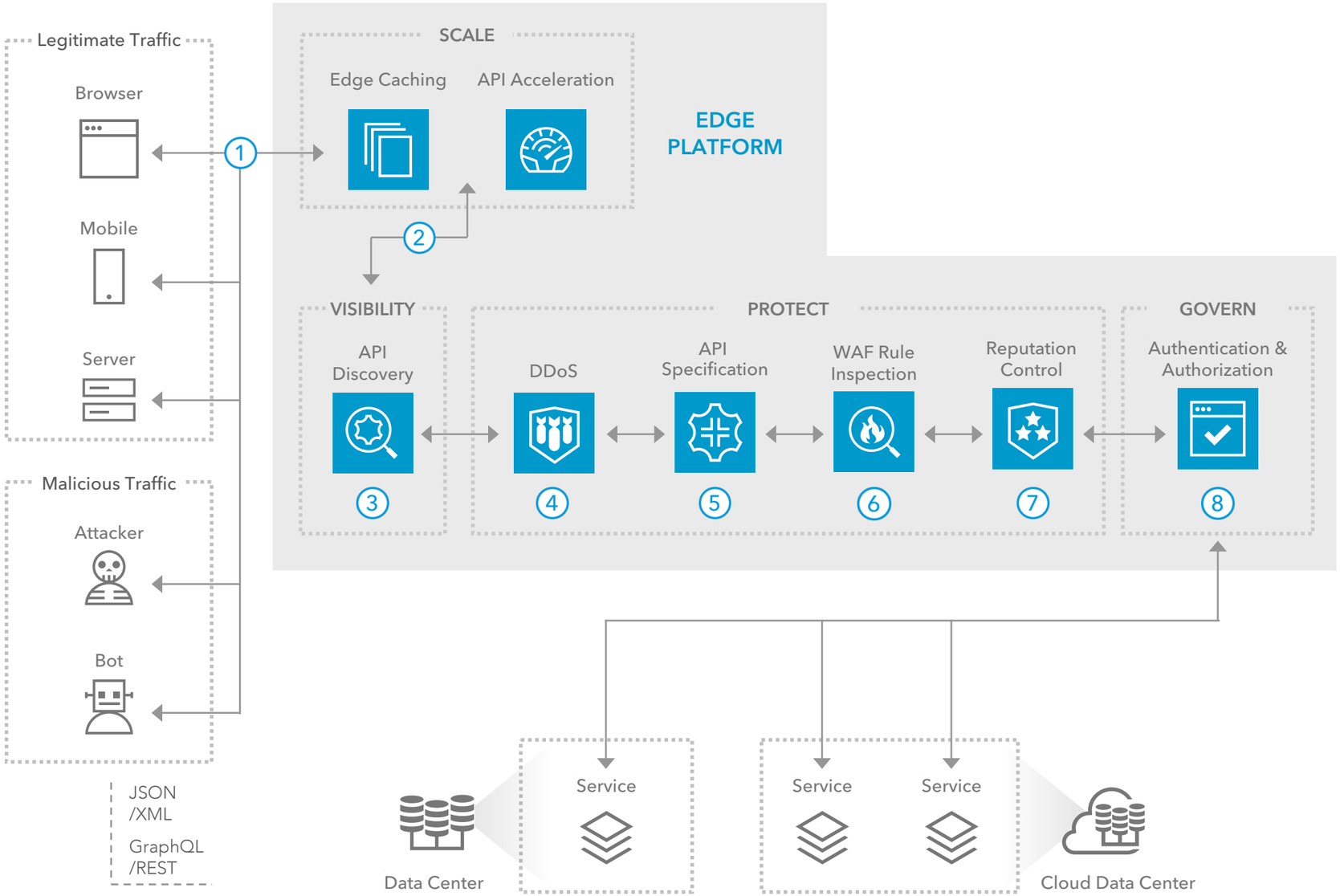
API DISCOVERY & SECURITY

Reference Architecture



OVERVIEW

Protecting APIs can be a significant hurdle when organizations lack visibility. After all, you can't protect what you can't see. With Akamai, automatic API discovery and profiling finds both protected and unprotected APIs — including their endpoints, definitions, and resource and traffic characteristics. Once identified, Akamai provides broad API protections against DDoS and injection attacks, and provides authentication and authorization at the edge.

1. Legitimate consumers (and malicious actors attempt to) access APIs through the Akamai Intelligent Edge Platform
2. Edge caching + API acceleration improves scalability and performance for all API traffic
3. API discovery and profiling capabilities inspect traffic to find both protected and unprotected API endpoints, their traffic, and risk profile to quickly apply protections
4. Automatically drop network-layer DDoS attacks and set rate limits to protect against application-layer DoS and other automated or excessive bot traffic
5. Positive API security allows for the ability to take action on API requests that violate predefined specifications
6. Inspect API requests for injection attacks such as SQL injections, XSS, file inclusion, and command injections
7. Stop traffic from malicious actors based on a reputation score derived from Akamai's visibility into prior malicious behavior
8. API Gateway validates API requests to ensure only legitimate consumers can access APIs

KEY PRODUCTS

Edge caching, API acceleration ▶ API Acceleration

API discovery and profiling ▶ Kona Site Defender

DDoS protection, API specification, WAF rule inspection ▶ Kona Site Defender

Reputation control ▶ Client Reputation

Authentication and authorization ▶ API Gateway

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