

# Lumen® Application Protection

Holistic web application firewall, bot management and API protection, all deployed across the Lumen global edge.

With application layer attacks on the rise, protecting your websites, code and APIs has never been more important. Lumen Application Protection offers a holistic approach to application security that is designed to rise to the challenge of the modern threat landscape, all while supporting the changing business and technical needs of your company.

Unlike many providers, Lumen takes an ecosystem approach to application security, partnering with best-of-breed providers for web application firewall (WAF), bot risk management (BRM) and API protection. These services are delivered via a common orchestration and automation platform for devSecOps-friendly deployment alongside your caching and performance solutions.

## High performance

Advanced machine learning helps better identify malicious behavior patterns for accurate protection and near-zero false positive rates.

## Easy to use

Modern software requires less setup, fewer rules and easier day-to-day maintenance. Enhanced accuracy helps reduce operational overhead.

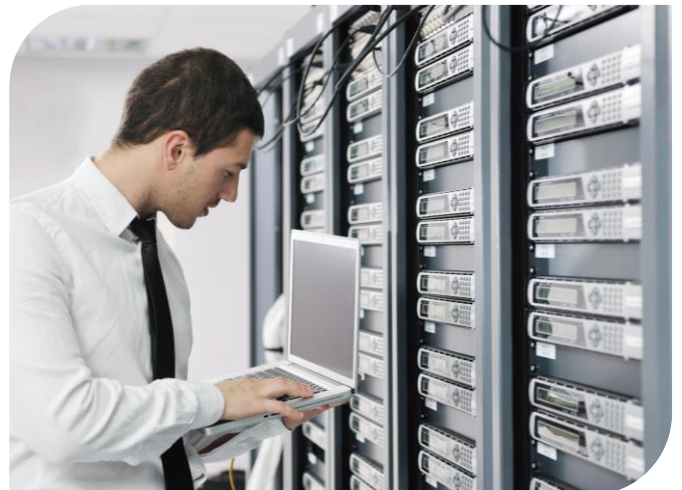
## Platform-based

The Lumen platform offers choice, visibility and control. Minimize architectural complexity by running app security alongside your caching and performance modules. Pair it with Lumen network DDoS for defense in depth.

# 95%

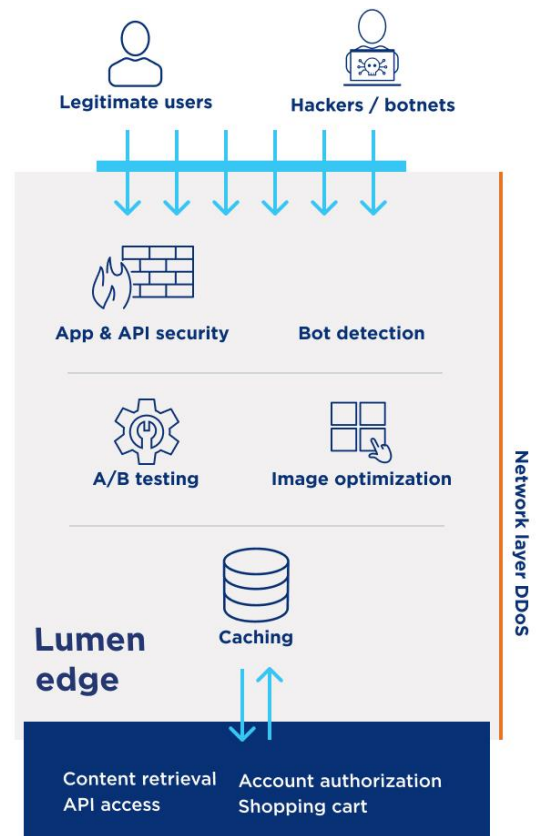
of customers in full blocking mode, and a near 0 false positive rate

- ThreatX 2022



# Features & specs

- **Advanced profiling:** combined behavior profiling, threat intelligence and analytics to identify suspicious behaviors and associated risks.
- **Machine learning-based:** technology learns common characteristics of interactions, correlates them with customer-defined policies and updates with new intelligence to protect against a broad range of attacks at a low operational cost.
- **Cross-customer correlation:** shared threat analytics correlates attack patterns and techniques across multiple customers and billions of data points to maximize protection.
- **Attacker fingerprinting:** cookie, fake field and JavaScript injection and IP profiling to fingerprint suspicious IPs for identification and event correlation.
- **App / API protection:** complete protocol support (JSON, XML, WebSocket, gRPC, GraphQL, REST, SOAP), robust protection for the entire application including OWASP Top 10 (injections, XXE, RCE, etc.), API abuse, credential stuffing, bots, account takeover.
- **Dual SaaS + SOC model:** powerful automated threat intelligence combined with the expertise of dedicated SOCs allow for better use of customer resources.
- **DevSecOps-friendly:** set up triggers and noise-free alerts; native support of Kubernetes and containers.



## Combine with network-layer DDoS

What good are your external applications if your internal network is under attack?

Gain multiple layers of defense combining layer 3 and 4 DDoS with layer 7 application protection. Lumen's deeply peered global backbone is our first line of defense, and we use our vast visibility to identify new threats and mitigate attacks directly at the network level. Lumen volumetric DDoS protection leverages 15 global scrubbing centers, 9 SOCs and the Lumen threat intelligence arm, [Black Lotus Labs](#)<sup>®</sup>

# Lumen application protection ecosystem

## Application & API

### THREATX

A Gartner Magic Quadrant Visionary for WAF and API Protection, ThreatX at once blocks threats while protecting legitimate traffic thanks to an attacker-centric approach.



Built by practitioners for practitioners, Wallarm provides out-of-the box protection for applications, APIs, and microservices. Enjoy vast visibility into malicious traffic, noise-free alerts, and automated incident response.

## Bot management

### perimeterx

A leader in the Forrester New Wave™ for Bot Management, PerimeterX Bot Defender is a behavior-based solution that protects against automated attacks.



Radware protects websites from bad bot traffic thanks to dynamic signature building, collective bot intelligence, and proprietary Intent-based Deep Behavior Analysis (IDBA).

## Why Lumen

It's all about the experience. Lumen helps enterprises accelerate development workflows, optimize performance and secure applications through containerized modules designed to power and protect the digital interactions your customers demand.