

# Cloud Security Solution

Protect your web applications and user data with our comprehensive Cloud Security Solution



Integrated into our cloud platform, our security solution offers world-class protection, performance and scale to keep your website operating with confidence.

### Holistic multi-layer defense

Our comprehensive cloud security solution protects against threats from all layers, from massive network-layer DDoS attacks to advanced application-layer attacks and everything in between.

### Flexible control

You have the choice of our easy-to-use web portal for config management and real-time analytics or leveraging our comprehensive API suite for automation and integration with your existing workflow.

### Extensive coverage

We provide access to hundreds of the latest proprietary, commercial and open-source security rules. Collaborations with industry-leading security researchers allow for fast response to zero-day security threats. Parallel security rulesets allow for A/B testing and quick rules update.

### Industry-leading security services

We provide 24 x 7 x 365 support for security incidents and DDoS escalations. Security advisory services are available to keep you on top of the latest threat landscape and to augment your security staff with dedicated security experts.

## Feature highlights

### DDoS protection and mitigation

- 45+ Tbps of globally distributed network capacity to absorb the largest DDoS attacks anytime
- Always-on automated DDoS protection to mitigate DDoS attacks on all layers, including, but not limited to: SYN, ACK, UDP, DNS, HTTP and ICMP flood
- Unlimited DDoS overage protection

### Web Application Firewall (WAF)

- Application layer (Layer 7) defenses identify and mitigate malicious requests
- Comprehensive rulesets covering a wide range of application vulnerabilities, i.e., SQL Injection (SQLi), cross-site scripting (XSS), remote file inclusion (RFI), local file inclusion (LFI), PHP injection (PHPi), remote code execution (RCE) and many more
- Protection against all OWASP Top 10 threats and common application-specific vulnerabilities, i.e., Microsoft IIS, ASP.NET, SharePoint, WordPress, osCommerce, Joomla!, Drupal, cPanel, etc.
- IP reputation database protects against known bad actors

### Access Control Module

- Granular control over the application access through black/whitelisting of request parameters, i.e., IP address, country, referrer, user-agent, request method, file extension/content-type and more

### Advanced Rate Limiting

- Additional application layer DDoS protection to help shape and limit the rate of HTTP requests to your application
- Granular control allows you to set conditions, i.e., IP address, URL, user-agent, referrer, file extension and more
- Flexible sampling window (from 1 second to 5 minutes) and client enforcement durations

### Domain Name System (DNS)

- Fast, secure and reliable to resolve DNS queries quickly and accurately
- Fully RFC compliant, with support for primary and secondary DNS
- Built-in DNS DDoS protection with support for DNSSEC (Domain Name System Security Extensions)

### Bot mitigation

- Protect your website, mobile applications and APIs from automated attacks
- Machine-learning algorithms predict a bot based on correlating dozens of dynamic classifications
- The world's largest Known Violators Database informs bot detection in real time
- Advanced browser validations detect sophisticated scrapers and browser automation tools
- Hi-Def device and behavioral fingerprinting ensure high-level accuracy

### Globally distributed infrastructure

- Worldwide network of 100+ Super PoPs (points of presence) for maximum scale and reliability with massive 45+ Tbps of network capacity
- Integrated CDN and security software stack for maximum reliability and performance anywhere
- Close proximity to all major metropolitan cities serves as a first line of defense to stop attacks at the edge

### Flexible controls and analytics

- Fully self-serviceable web interface for security services management and real-time analytic dashboard for security event monitoring and analysis
- API for all security features to support automation and integration with your existing security workflows
- API for real-time security logs to integrate with your security information and event management (SIEM) tools
- Fast propagation of security configuration updates within <5 minutes
- Parallel security profiles allow quick ruleset updates without downtime in protection or complex ruleset migration

### Service and support

- 24 x 7 x 365 operations team available for DDoS responses and security incident escalations
- Security Advisory Services with dedicated security expert for configuration assistance and technical consultation to keep up with the latest threat landscape
- Managed Security Services providing fully managed security operations

## Learn more about our Cloud Security Solution.

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