



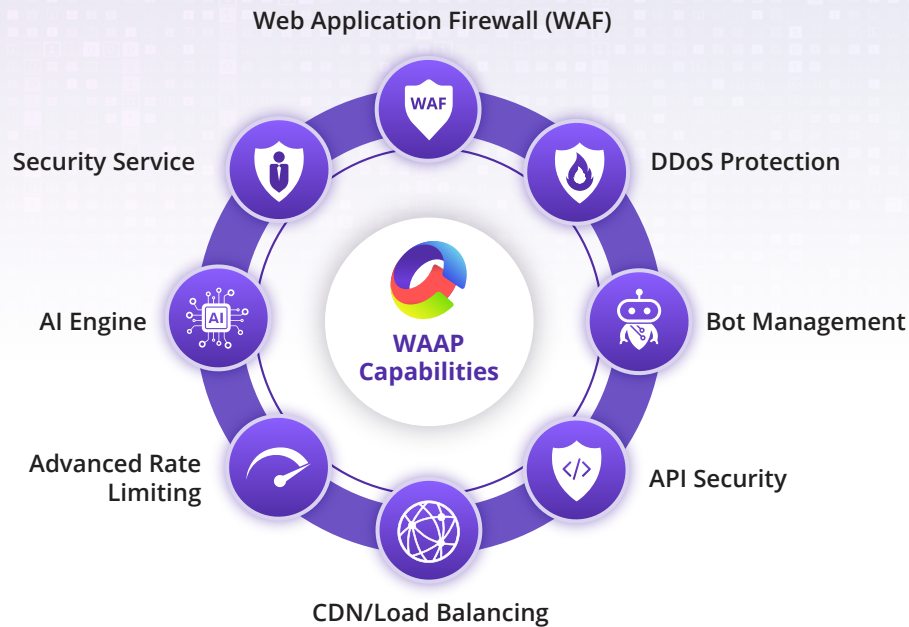
Web Application & API Protection Solution

Boost Your Web Application and API Security against
Cyber Threats with AI-based Adaptive Protection



Contact us at sales@cdnetworks.com or visit cdnetworks.com

CDNetworks' Web Application and API Protection (WAAP) is a cloud-based protection solution that integrates DDoS Protection, WAF, API Security, Bot Management and some advanced technologies to mitigate a broad range of runtime attacks. These WAAP services synergistically utilize a proactive AI Central Engine, a combined fundamental defense capability and resources to serve as a Unified Protection Engine. With CDNetworks all-in-one Cloud Security 2.0 platform, business can intuitively rely on its adaptive web application and API security to ensure the incredible performance, reliability and unlimited scalability.



Consolidated Platform for Web Application and API Protection

Departing from the standard tactic of stacking individual products, CDNetworks Cloud Security 2.0 platform blends AI technology with a shared threat intelligence library, reorganizing the protection capabilities into 5 General Modules and 4 Scenario-based Protection Modules. It leverages CDNetworks' extensive global reach of over 2800 PoPs and years of security operation experience to provide a one-stop web application and API protection.

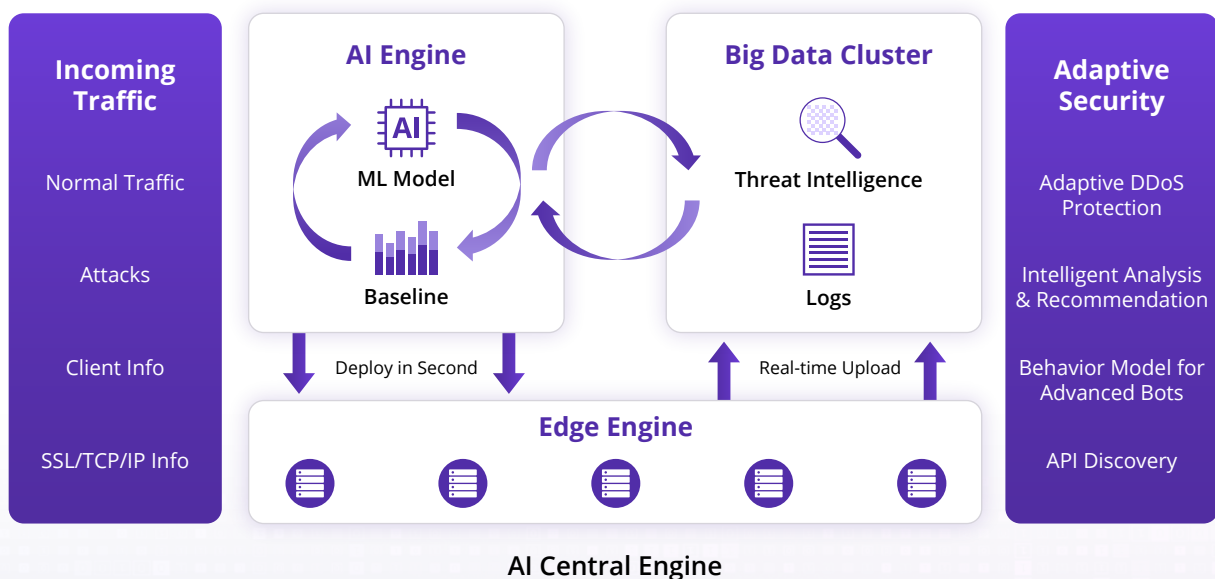
Consolidated Console	Service MGT	Security Policies	API Inventory	L7 Dashboard
	L3/4 Dashboard	Change History	Attack Logs	Attack Alert
Open API	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DDoS Protection</p> </div> <div style="text-align: center;"> <p>Bot Management</p> </div> <div style="text-align: center;"> <p>API Security</p> </div> <div style="text-align: center;"> <p>WAF</p> </div> </div>			
	<div style="display: flex; justify-content: space-around; border: 1px dashed gray; padding: 5px;"> <div style="text-align: center;"> <p>Threat Intelligence</p> </div> <div style="text-align: center;"> <p>Whitelist</p> </div> <div style="text-align: center;"> <p>IP/Geo Block</p> </div> <div style="text-align: center;"> <p>Rate Limiting</p> </div> <div style="text-align: center;"> <p>Custom Rules</p> </div> </div>			
	Big Data Cluster		Threat Intelligence library	
Unified Protection Engine	2800+ Global CDN PoPs		200,000+ Global Servers	
			10+ years SOC Experience	
Powerful Resources				

Security Services

Adaptive Protection Based on Big Data Analysis and ML Algorithm

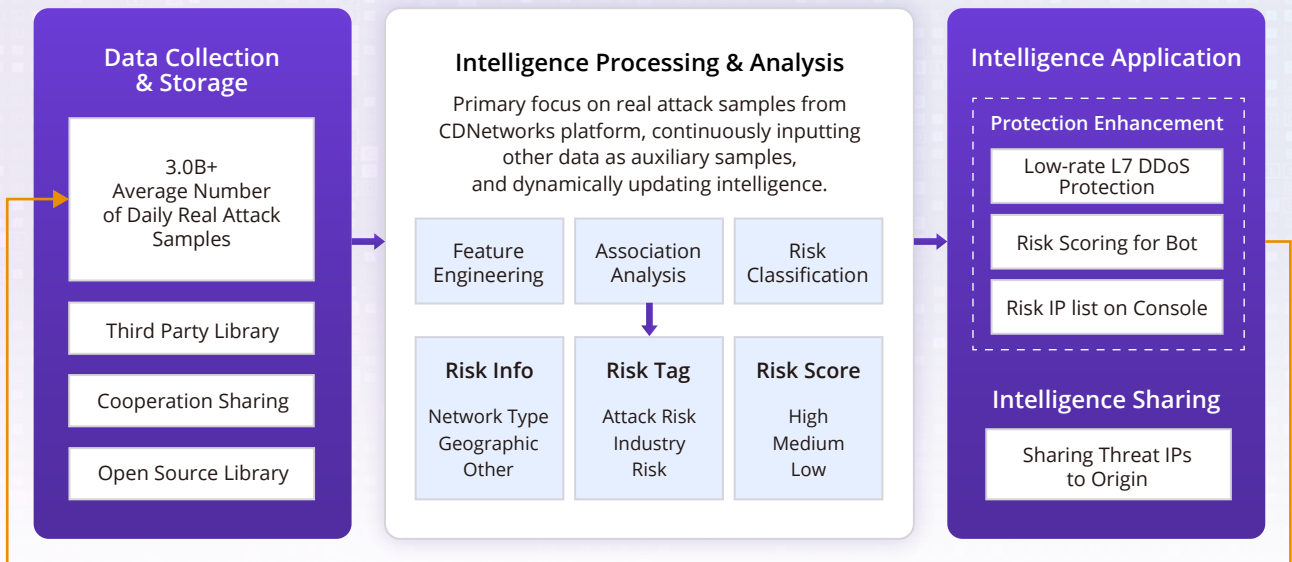
CDNetworks leverages big data analytics, machine learning technologies, and threat intelligence to establish analytical models, continuously and automatically generate security policy recommendations, and implement automated deployment. This not only enhances the precision of protection and reduces the rate of false positives but also effectively lowers the cost of security operations.

- **Adaptive DDoS Protection:** When the website business is under DDoS attacks and the attack traffic may impact origin, the AI Central Engine will automatically generate protection rules against the attack.
- **Intelligent Analysis & Recommendation:** AI will automatically analyze log, analyze whether the business and default policy are compatible: It automatically analyzes whether WAF rules pose a risk of false positives and can automatically whitelist them; It alerts for business types like APIs that may not support JS Challenge, reducing the risk of false alarms.
- **Behavior Model for Advanced Bots:** Our AI Central Engine leverages a behavioral model specifically designed for sophisticated and persistent bots, enabling it to score and block these threats effectively, thereby enhancing the accuracy of protection.
- **API Discovery:** Based on the API recognition model defined by CDNetworks, AI engine can dynamically detect traffic data and automatically discover APIs.



Powerful Threat Intelligence Processing & Analysis

CDNetworks' intelligence data mainly comes from its own platform, besides third-party library. This data is more authentic and timely compared to the third-party library. By leveraging AI engine, continuously translates this expertise into feature engineering, association analysis, and risk categorization to optimize the intelligence scoring mechanism. This is done by labeling and risk scoring management of attack IPs and applying it directly to protection, effectively improving the accuracy of the overall site protection product.



Scenario-based Protection

DDoS Protection

CDNetworks' WAAP solution not only offers robust DDoS defenses to maintain your origin's stability against complex, volumetric attacks like SYN Flood, ACK Flood, UDP Flood, and HTTP Flood, but also provides adaptive protection to help organizations fend off stealthy attacks, such as the SlowLowris attack.

Cloud WAF

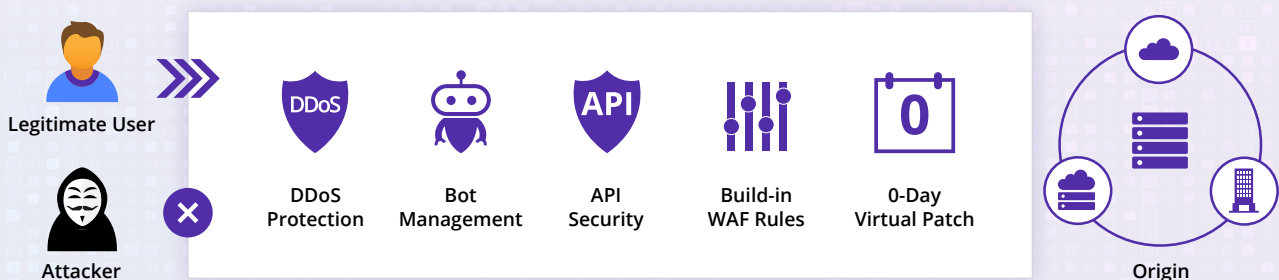
Boasting a decade of experience, our WAAP solution utilizes a Dual WAF Protection Engine, combining an AI engine and a Rule engine. It provides robust defenses, updates rules for zero-day attacks hourly, and leverages AI engine to reduce false positives, significantly improving the accuracy of protection.

Bot Management

CDNetworks' WAAP solution manages bots effectively, blocking harmful ones while allowing beneficial bots. It uses Machine Learning and Big Data Analysis for intelligent risk detection and dynamic defense against advanced persistent bots.

Full Lifecycle API Management and Protection

Rooted in CDNetworks' AI engine, CDNetworks WAAP solution leverages API Discovery features to identify known, unknown, and changing APIs throughout their lifecycle. It also fortifies your API security posture by employing multiple detection processes in real-time to thwart attacks before they reach the origin.



Unified Visibility

The Cloud Security 2.0 Platform is a comprehensive suite that provides a holistic look into your website's security. It offers a detailed understanding of the safety measures in place for your domains while keeping you updated with the latest product developments. Through an array of dashboards, it provides real-time data on DDoS attacks, blocked IPs, and website request trends, and help organizations better manage potential threats.



Professional Services

With a dedicated team of over 100 security experts, CDNetworks offers 24/7 support, attack alerts, and expert emergency response. Our services include PRS, VAPT, SIEM integration, and OpenAPI, ensuring secure and efficient infrastructure management.



24/7/365 Support



Alerting and Reporting Tool



Expert Emergency Response



Professional reporting service



Vulnerability Assessment (VA)



Penetration Testing (PT)

Benefits



Leading Protection

WAF with double protection engines

DDoS mitigation capabilities
15Tbps+ and 1 billion QPS

Scenario-based Bot Management

API security using closed loop



Adaptive Security

Intelligent Analysis & Recommendation

Adaptive DDoS Protection

Intelligent Risk Analysis for advanced Bots

API Discovery via API recognition model



Ease of Use

Unified Visibility

Full Self-service

Managed Protection Mode

Improved UI design simplifies operation

The Security Platform Powered by CDNetworks

3,336,701,369

Average daily number of cyberattack mitigation

90%

More than 90% of WAF domains are in block mode

34.7M RPS

L7 DDoS Mitigation Peaked Record

2.09Tbps

L3/4 DDoS Mitigation Peak Volume Record

1 Billion+

Threat Intelligence Data Scale

100+ Security Experts

Ensure business stability and security

Web Application and API Protection



DDoS Protection

Cloud-based DDoS protection integrated with a high-performance CDN



Web Application Firewall

Ensure secure, compliant and highly available web applications with our cloud-based WAF



Bot Shield

Cloud-based comprehensive bot mitigation and management platform



API Shield

Secure your API resources with full-cycle management platform



Security Services

Our experts are available 24/7 to help you solve your challenges

Trusted by Global Companies



CDNetworks Wins Frost & Sullivan 2023 **Customer Value Leadership** Award for Web Application Firewall

"Frost & Sullivan commends CDNetworks' continuous commitment to technological innovations and customer-focused strategy in developing its solutions. The introduction of WAAP solutions showcases its dedication to addressing customers' growing demands for consolidated application security solutions that offer enhanced protection against evolving web-based threats."

– Vivien Pua, Frost & Sullivan Senior Industry

[Read the Report](#)



As the APAC-leading network with over 2800 global Points of Presence and more than 20 years of technology experience, CDNetworks embraces the new era of Edge and takes it to the next level by using the Edge as a service to deliver the fastest and most secure digital experiences to end users. Our diverse products and services include web performance, media delivery, cloud security, zero trust security, and colocation services — all of which are uniquely designed to spur business innovation. To learn more, visit cdnetworks.com.

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