CDNetworks

WAAP

WAAP Features Checklist

Core Features of a Web Application and API Protection (WAAP) Solution

Category	Feature	Description
CDN & DDoS Protection	DNSSEC	Strengthen authentication in DNS using digital signatures based on public key cryptography.
	Smart Routing	Choose the optimal path to the origin so that content is delivered to end users using the fastest and most reliable route.
	SSL/TLS	Support SSL/TLS protocols to ensure that data exchanged between two parties are secure and cannot be intercepted by attackers.
	Load Balancer	Detect and redirect traffic to different origin servers based on various conditions, such as origin domain, origin IP address, and user IP address to keep application and service remains available to users.
	Anti-Hijacking & Anti-tampering	Provide anti-hijacking and anti-tampering features to ensure the security and accuracy of requested files.
	Anti-Hotlinking	Maintain hotlinking protection by applying rules to accept or block requests.
	Rate Limiting	Limit the number and frequency of HTTP requests to reduce risks of brute-force and other automated attacks.
	Access Control	Configure blacklist or whitelist based on IP address, HTTP header, and other parameters to avoid web application attacks.
	L3/L4 DDoS Mitigation	Protect against L3/L4 DDoS attack, such as SYN flood, ACK flood, and UDP flood.
	L7 DDoS Mitigation	Protect against HTTP and HTTPS floods, low and slow attacks, and other Layer 7-based DDoS attacks.
	Preset Protection Policies	Provide three preset protection modes so customers can choose the onebest suited for addressing DDoS attacks.
WAF & API Security	IP Repeated Violations	Block IP addresses to prevent repeated WAF violations.
	HTTP Protocol Validation	Block requests that do not comply with the formatting standards specified in the RFC for HTTP.
	Built-In WAF Rules	Offer more than 1,000 built-In WAF rules to protect web applications against the security risks.
	OWASP Core Rulesets	Help organization address the Top 10 vulnerabilities identified by the Open Web Application Security Project (OWASP).
	Zero-day Protection	Deploy a “virtual patch” to prevent Zero-day attacks when such vulnerabilities are discovered.
	Flexible Response Actions	Offer custom protection actions, such as block, log, off, and bypass.
	WAF Intelligent Analysis Service	Automaticly generate recommended exceptions for WAF rules to reduce the false positive intelligently.
	Custom WAF Rules	Allow customers to create custom WAF rules base on their business needs.
	Threat Intelligence	Identify and protect mainstream IDC intelligence and open source intelligence.
	API Inventory	Define API resources, control API lifecycles online and offline, monitor privacy status, and more.
	Consumer Management	Identify the source of requests based on a unique consumer ID to manage API assets.

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	API Discovery	Discover unknown API resources using advanced log analysis technology.
	API Authentication	Verify the credibility of API requests by detecting dynamic authentication tokens in the requests.
	Compliance Detection	Refine and verify the body or parameters of requests to identify and intercept illegal request effectively.
Bot & Risk Management	Bot Intelligence	Define the action to take for known bot types, such as bypass SEO bots or block bots.
	Bot Detction (Bot Feature Verification)	Detect and identify normal users and bots by cookie, JavaScript, other browser features and user behavior.
	Fingerprint Analysis	Generate browser fingerprints for analysis and correlation with IP addresses.
	Captcha Verification	Respond to the captcha verification page to verify the legitimacy of client requests.
	Flexible Response Actions	Customize actions of protection, such as block, flag, log, captcha, Slow/Delay etc.
	Customized Bot	Support adding, deleting, enabling of custom bots known to be “good.”
	Bot Management for Mobile App.	Offer enhanced App. protection for native mobile apps by integrating the bot management SDK into IOS and Android applications.
	Workflow Analysis	Identify and analyze the workflow of access requests from websites and APIs to detect and block abnormal access behaviors.
	AI Analysis	Detect known and unknown bot behavior accurately and work with other strategies to proactively combat ever-changing bot attacks before they have a chance to strike.
	Account Takeover	Identify and block attacks designed to hijack account through credential stuffing and brute force.
	Fraud Protection	Prevent and detect fraudulent activities to minimize the risk of financial loss and damaged reputations damage caused by fraudulent activities.
Data Analysis	SIEM Support	Help organization push attack logs such as Syslog and Splunk to the SIEM platform in real-time to improve security operation efficiencies.
	Dashboard	Display attack information (such as attack trending data, attack details, attack type and source of attack) in real-time.
	Reporting & Analytics	Allow organizations to export security service report on console, which inlcudes securiy overview, attack incident analysis via the console.
	Basic Log & Incident investigation tools	Display incident logs in detail, including the attacker IP address, attacked domain name, and trigger policy.
	Professional Log & Incident Investigation tools	Support Kusto Query Language (KQL) statements to retrieve logs according to actual log query requirements; provide a quick analysis of log fields to filter the fields for further analysis.
	L4 & L7 DDoS Dashboard and Log Service	Provide real-time visibility into all network and application layer attacks trend and attack type.
	Incident Log Download	Support incident log downloads on console.

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Security Services	Onboarding Assistance	Provide a guided onboarding experience along with an expert tuning workshop and guidance on security and performance configurations.
	Professional Reporting Service	VProvide security analysis reports for an organization's website and propose ways to optimize security policies.
	Vulnerability Scanning Service	Provide a vulnerability scanning service to discover cyber security weaknesses in host systems and web applications to safeguard against attacks and avoid costly data breaches.
	Penetration Testing Report	Conduct a penetration testing exercise and generate a detailed report with information about vulnerabilities and weaknesses that were identified during testing, along with recommendations for remediating and mitigating the vulnerabilities found.
Platform Capabilities	Deploy History	Allow organizations to query the configuration history and related record changes.
	Custom Block Page	Allow organizations to customize the page displayed to clients when an event is blocked.
	Attack Alert	Notify customers by instant message or email when an attack triggers a customer-defined alarm rule.
	API Access	Allow customers to configure security rules, query incident logs and search security dashboard data via APIs.
	Open API Support	Provide API quick searching, API online calling, troubleshooting, and documentation to enhance the customer's programming experience.
	Compliance Certifications	Comply with industry-standard security compliance certifications and regulations, including ISO/IEC 27001, SOC 2 Type II, PCI DSS 3.2, K-ISMS.
	Account IAM Control	Provide role-based account control, read-only user access, and multi-user administrative access for Identity and Access Management control.
	Control Groups of Domains	Allow customers to create control groups in different domains to simplify administration of subaccounts.

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