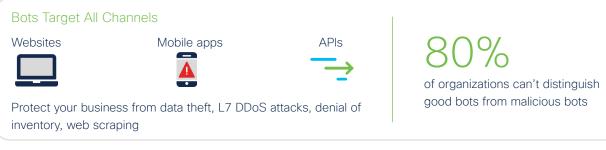
cisco SECURE

Advanced WAF and Bot Protection

In today's economy, your digital business must be secure and available ... all the time. But your network and applications are under constant attack, making it difficult to ensure that data is secure and online revenues are protected.

Cisco[®] Secure Web Application Firewall (WAF) and bot protection defends your online presence and ensures that website, mobile applications, and APIs are secure, protected, and "always on."



Advanced WAF and bot management solutions ensure reliable, secure delivery of web and mobile applications while minimizing costs by enabling security policies to easily be deployed across multicloud environments. Advanced bot management uses machine learning and adaptive security to accurately distinguish good bots from malicious bots, ensuring that your network and applications are available to legitimate users.

With business moving online and to the cloud, advanced WAF and bot solutions protect websites, applications, and APIs from attack and ensures that your organization is open for business.

Key benefits

Consistent security policy

Easily deploy across multicloud to reduce costs
 and security risks

Comprehensive OWASP coverage

- Protection beyond the OWASP Top 10
- Positive and negative models provide complete protection with minimum false positives
- Advanced security controls inspect and protect
 APIs from attack and manipulation

Advanced bot protection

- Accurately identifies advanced human-like bots
 that evade fingerprinting technologies
- Distinguishes good bots from malicious bots with minimum false positives

Auto discovery

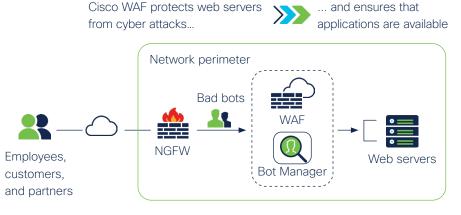
 Continuously scans apps for changes and automatically optimizes security policies



cisco SECURE

Cisco Advanced WAF and Bot Protection

Machine learning enables... ... continuous application protection



Advanced WAF and bot solutions combine positive and negative models with advanced behavioral analytics to accurately identify bad bots and protect your online business.

Cisco application protection solutions deliver:

- Accurate identification and management of bots
- API security
- Protection from denial of service (DoS) attacks
- Continuous monitoring of apps
 with automatic security updates

Highly effective application security

Negative Security Models

- Used in most WAF solutions
- Block known threats via signatures and rules
- Cannot protect from unknown threats: zero-day attacks

Positive Security Models

- · Learn and define what constitutes legitimate traffic
- Block unauthorized access and actions
- Uniquely protect against zero-day and unknown vulnerabilities



At a glance Cisco public

© 2021 Cisco and/or its affiliates. All rights reserved.

Advanced WAF + Bot Manager = Better Together

Security Capability	Bot Manager	Traditional WAFS	WAF + Bot
Protection from simple bots	Yes	Yes	Yes
Fingerprinting of malicious devices	Yes	Yes	Yes
Mitigation of dynamic IP and headless browser attacks	Yes	Limited	Yes
Detection of sophisticated bot attacks	Yes	No	Yes
Risk of blocking legitimate users (false positives)	Very low	High	Very Low
Collective bot intelligence (IPs, fingerprints, behavioral patterns)	Yes	No	Yes
Customized actions against suspicious bot types	Yes	No	Yes
Protection for OWASP Top 10 vulnerabilities	No	Yes	Yes
Protection from API vulnerabilities	Limited	Yes	Yes
Protection for Layer 7 denial of service (DoS)	Limited	Yes	Yes
HTTP traffic inspection	No	Yes	Yes
Masking of sensitive data	No	Yes	Yes
Compliance with HIPAA, PCI	Limited	Yes	Yes
Integration with DevOps	No	Yes	Yes
Blocking of malicious sources at the network level - access control list (ACL)	No	Yes	Yes

At a glance Cisco public

WAFs protect websites from application vulnerability exploits like SQL injection, cross-site scripting (XSS), cross-site request forgery, session hijacking, and other web attacks. WAFs typically feature basic bot mitigation capabilities that block bots based only on IPs and fingerprinting.

Unfortunately, most WAFs often fall short when facing advanced, automated threats. Sophisticated next-gen bots mimic human behavior and often go undetected, abusing open-source tools or generating multiple violations in different sessions.

Against today's sophisticated threats, standard WAF solutions just don't get the job done.

cisco SECURE



More Information

Book a demo or whiteboard session

Contact your Cisco sales representative today to learn how our WAF and bot solutions fit into your application security strategy

Mirai and IoT Botnet eBook, Radware, https://www.radware.com/iot-attack-ebook

Cisco SAFE Designs

See WAF in Cisco SAFE validated designs:

Cisco SAFE Secure Cloud for Azure

Cisco SAFE Secure Cloud for AWS

https://www.cisco.com/c/en/us/solutions/ enterprise/design-zone-security/landing_safe. html#~tab-design

Next Steps

For more information about our portfolio of WAF and bot management solutions, contact your Cisco sales representative today.

API & High Security 2020 Ranked #1

Gartner

Bot Management, 2020 Leader

FORRESTER[®]

2020 WAF Wave Strong Performer

«kuppingercole

Kubernetes WAF Featured for Innovation

Security Standards Compliance and Certifications

Extensive compliance and certifications capabilities, unparalleled by any rival, including industry-specific certifications such as PCI and HIPAA, as well as cloud security standards such as ISO 27001, ISO 27017, ISO 27018, ISO 27032, and others

Learn more: cisco.com/go/secure

© 2021 Cisco and/or its affiliates. All rights reserved. Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. PROJ##### 03/21



At a glance Cisco public