

Citrix NetScaler and HPE Security WebInspect



Introduction

More than 80 percent¹ of security breaches occur in the application layer and continue to pose major threats to organizations. As organizations rely more and more on Web applications to deliver services to their employees, partners, and customers, the threat landscape broadens and the security challenges they face become increasingly complex. Web application firewalls (WAFs) make Web applications and communications secure by blocking the attacks that traditional firewalls are not designed to protect.

HPE Security Fortify application security testing solutions identify application vulnerabilities throughout the software development lifecycle (SDLC). Fortify provides comprehensive application security for static and dynamic, as well as Runtime Application Self Protection (RASP). HPE Security WebInspect helps identify application vulnerabilities in running applications.

The integration of HPE Security WebInspect with the Citrix[®] NetScaler Web Application Firewall (WAF) improves the levels of application security by virtually patching the identified application vulnerabilities in a timely manner. Application security testing solutions and WAF become a necessity for all enterprise data centers.

Protecting applications with NetScaler WAF

NetScaler WAF is a comprehensive International Computer Security Association (ICSA)-certified solution for Web application security that blocks known and unknown attacks against Web and Web service applications. NetScaler WAF enforces a hybrid security model that permits only correct application behavior and protects against both known and unknown application vulnerabilities. It analyzes all bi-directional traffic, including SSL-encrypted

¹ Stop protecting your apps; It's time for apps to protect themselves, Gartner Maverick Research, 2014

Solution brief

communication, to protect against a broad range of security threats, without any required modifications to applications.

The NetScaler WAF protects Web servers without degrading throughput or application response times. It blocks application-level and other attacks, at over a gigabit per second throughput. NetScaler has many other security features providing a multi-layer security model.

The following are highlights of key protection tactics that are facilitated by NetScaler WAF:

- Cross-site scripting
- Cross-site request forgery
- SQL injection
- XML security
- Buffer overflow
- Data theft

Customization of NetScaler WAF rules to patch applications assumes that attacks can be identified and blocked. NetScaler WAF has a learning-mode capability to determine rules for the applications. However, organizations often prefer to manage application rule sets themselves, which can prove to be time-consuming. Furthermore, rule sets need to be reviewed when back-end applications are added or modified.

There are two required steps to keep the protection of applications up-to-date. The first is to identify vulnerabilities associated with all of the applications hosted on enterprise and offsite. The second is to update WAF policies to protect against identified vulnerabilities.

Ensuring that these two steps are in sync with the right policies can be a challenge and consume a lot of time. The solution offered by HPE Security WebInspect and the NetScaler WAF integration addresses this challenge.

HPE Security WebInspect solution overview

HPE Security WebInspect is an industry-leading solution for Web application security assessment designed to analyze today's complex Web applications and Web services thoroughly for security vulnerabilities. It delivers broad technology coverage, fast scanning capabilities, extensive vulnerability knowledge, ease of use, and accurate Web application scanning results. HPE Security WebInspect, part of HPE Security Fortify, provides dynamic security testing (DAST) and interactive security testing (IAST) capabilities. HPE Security Fortify offers the most comprehensive static and dynamic application security testing technologies, along with runtime application monitoring and protection, backed by industry-leading security research. Solutions can be deployed in-house or as a service to build a scalable, nimble Software Security Assurance program that meets the evolving needs of today's IT organizations.

Strategic and technical benefits

HPE Security WebInspect offers an extensive list of features and capabilities to users. The highlights include:

- Comprehensive vulnerability coverage
- Simultaneous crawl and audit, and concurrent scanning for powerful scanning capabilities
- Test mobile-optimized websites and native mobile Web service calls

- Interactive application security testing
- Advance macro recording technology and flexible authentication handling
- Native 64-bit

Integrated solution capabilities

NetScaler WAF integration with HPE Security WebInspect provides the following benefits:

- Scans Web applications with WebInspect; this provides insights into increasing the NetScaler WAF detection level, which is based on the actual vulnerabilities detected.
- Protects against identified Web application vulnerabilities quickly; it does not tie up development resources and integrates the WebInspect scan results into NetScaler.
- Reduces the exploitation time window, so organizations now have the time to create an excellent application-level control; organization do not have to rush through an untested "virtual" patch that may cause other problems to the Web application.

Benefits of integration

Organizations can reduce their risk exposure to the vulnerabilities discovered in applications and services by using NetScaler WAF and HPE WebInspect together.

Learn more at
hpe.com/software/webinspect

citrix.com/products/netscaler-appfirewall/overview.html



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