



FortiWeb and HPE Security WebInspect

Web Application Vulnerability Scanning and Virtual Patching

Scan. Protect. Patch. HPE Security WebInspect and Fortinet have partnered to deliver a virtual web application patching solution to address vulnerabilities as soon as they're found. Traditionally organizations would need to follow their development process to fix bugs and repair vulnerabilities discovered in their code. This can mean weeks, even months to address serious flaws that could lead to service disruptions and in severe cases, the loss of customer and proprietary data.

FortiWeb's virtual patching uses a combination of sophisticated tools such as URLs, parameters, signatures, HTTP methods and others to create a granular rule that addresses specific vulnerabilities discovered by HPE Security WebInspect. With this multi-faceted approach to rule creation, FortiWeb minimizes the possibility that a scanner-based rule will trigger false positives and prevents impact to overall WAF (Web Application Firewall) performance.

Key Benefits

Using FortiWeb with HPE Security WebInspect gives organizations:

- Less disruptions from emergency fixes and test cycles by virtually patching vulnerabilities.
- Reduced risk of exposure to threats between the time a threat is discovered and when it is fixed by developers.
- Protection for legacy, inherited and third-party applications where development fixes aren't an option or are impractical.
- More stability in application security patches.
- Minimized false detections.



Virtual Patching won't replace the traditional application development process; however, it can create a secure bridge between the time a vulnerability is discovered and the time a software release is issued to address it. In cases where it may not be possible or practical to change the application code, such as with legacy, inherited and third-party applications, FortiWeb's virtual patching capabilities can provide a permanent security solution for vulnerabilities.

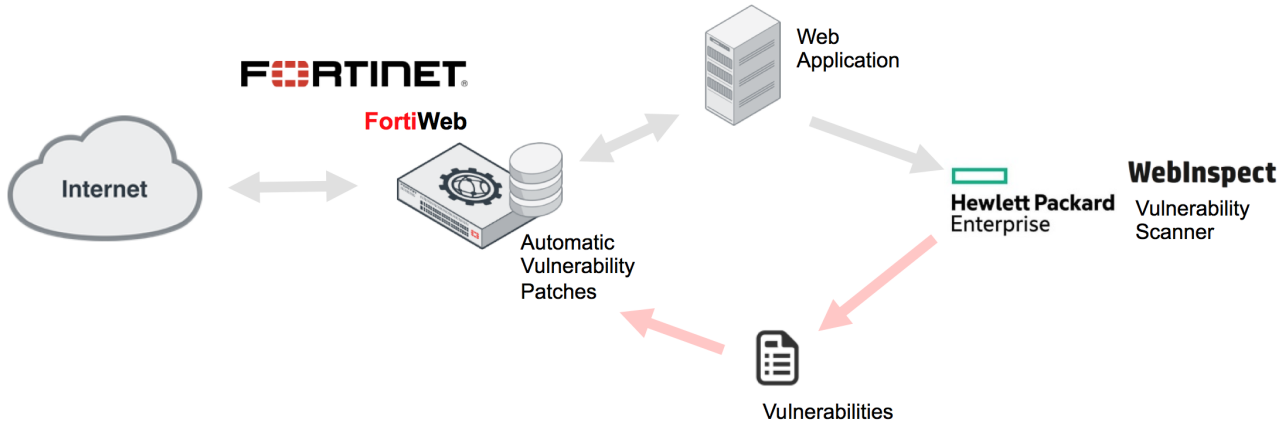


Figure 1: HPE Security WebInspect scan results are imported into FortiWeb; FortiWeb Virtual Patching then automatically creates new rules to protect against newly-discovered vulnerabilities.

Using HPE Security WebInspect to uncover application vulnerabilities provides a comprehensive threat assessment. FortiWeb can now import HPE Security WebInspect results to create custom application protection rules, providing immediate mitigation of identified vulnerabilities. This virtual patching is able to maintain application security until the development teams are able to fully deploy permanent fixes in the application code. It can also extend the time window between security patches to minimize disruptions to the organization and its users.

FortiWeb-VM

#	Date	Time	File Name	Scanner Type	Vulnerability Name	CVE ID	Adom Name	Profile Type	Profile Name	Rule Type	Rule Name	Severity	Action	Status
178	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-178	Low	Alert	Mitigated
179	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-179	Medium	Deny	Mitigated
180	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	SQL Injection	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-180	High	Deny	Mitigated
181	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Cross-Site Scripting: Reflected	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-181	High	Deny	Mitigated
182	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-182	Low	Alert	Mitigated
183	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-183	Medium	Deny	Mitigated
184	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Cross-Site Scripting: Reflected	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-184	High	Deny	Mitigated
185	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Cross-Site Scripting: Reflected	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-185	High	Deny	Mitigated
186	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Dangerous File Inclusion: Local	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-186	High	Deny	Mitigated
187	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-187	Low	Alert	Mitigated
188	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-188	Medium	Deny	Mitigated
189	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-189	Low	Alert	Mitigated
190	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-190	Medium	Deny	Mitigated
191	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-191	Low	Alert	Mitigated
192	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-192	Medium	Deny	Mitigated
193	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Cross-Site Scripting: Reflected	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-193	High	Deny	Mitigated
194	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-194	Low	Alert	Mitigated
195	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-195	Medium	Deny	Mitigated
196	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Dangerous File Inclusion: Local	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-196	High	Deny	Mitigated
197	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Access Control: Unprotected File	N/A	root	Inline	HPSscanner2	URL Access	HPSscanner2-197	Low	Alert	Mitigated
198	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-198	Low	Alert	Mitigated
199	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-199	Medium	Deny	Mitigated
200	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-200	Low	Alert	Mitigated
201	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-201	Medium	Deny	Mitigated
202	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Cross-Site Scripting: Reflected	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-202	High	Deny	Mitigated
203	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-203	Low	Alert	Mitigated
204	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-204	Medium	Deny	Mitigated
205	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Server Error Message	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-205	Low	Alert	Mitigated
206	2015-11-09	11:42:42	riches-vaf.xml	HP WebInspect	Poor Error Handling: Unhandled Exception	N/A	root	Inline	HPSscanner2	Custom Rule	HPSscanner2-206	Medium	Deny	Mitigated

Figure 2: FortiWeb's deep integration with HPE Security WebInspect provides increased user and traffic visibility and provides protection from web application threats.

Use Cases

The integration of HPE Security WebInspect with FortiWeb provides two specific use cases to scan and protect applications from vulnerabilities, as described below.

Temporary Virtual Patching Use Case

In this use case, HPE Security WebInspect scans a web-based application to identify vulnerabilities. The results of this scan are then imported into FortiWeb. FortiWeb analyzes the results of the scan and creates a custom rule for each vulnerability. Each rule is identified by FortiWeb as an HPE Security WebInspect scanner result and is enabled automatically or can be disabled manually by the user. FortiWeb uses these new rules in combination with its other Web Application Firewall services to protect the application until developers are able to release a permanent patch for the vulnerabilities through their normal software development process, eliminating the need for emergency fixes.

Permanent Virtual Patching Use Case

There are many instances where it is not possible or practical to repair vulnerabilities in the application. Third-party, legacy and inherited applications all pose challenges to organizations where they may not have the necessary skills and knowledge internally, or have to engage high-priced outside resources to patch the software. Similar to the first use case, HPE Security WebInspect scans the application for vulnerabilities and the results are imported into FortiWeb. FortiWeb automatically creates rules based on the reported vulnerabilities. These are combined with FortiWeb's Web Application Firewall services to permanently protect the application using FortiWeb's Virtual Patching feature.

Benefits

Using FortiWeb with HPE Security WebInspect gives organizations:

- Less disruptions from emergency fixes and test cycles by virtually patching vulnerabilities until they can be permanently fixed.
- Reduced risk of exposure to threats between the time a threat is discovered and when it is fixed by developers.
- Protection for legacy, inherited and third-party applications where development fixes aren't an option or are impractical.
- More stability in application security patches as developers have more time to properly fix code versus issuing emergency patches that haven't had time to be fully tested.
- Minimized false detections based on accurate and verified web application firewall alerts by HP WebInspect.
- More accurate FortiWeb reporting and identification of attempts to exploit vulnerabilities discovered by HP WebInspect.
- Additional flexibility and granular management of FortiWeb's Web Application Firewall policies based on scanning results.
- A complete solution for PCI DSS 6.6 compliance.

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