Seeker and F5[®] BIG-IP[®] ASM[™] - Integration

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Introduction

Problem Description

Seeker allows quick detection of website vulnerability. Seeker provides the exact line of code as well as remediation as part of its test results.

Sometimes, the tested website is already deployed in production, and waiting for a fix is not an option. In such cases, there is a need to block the potential vulnerability.

F5 BIG-IP Application Security Manager (ASM) is a flexible Web application firewall (WAF) that enables granular application visibility, comprehensive vulnerability assessment, and attack protection with application security.

Seeker's Integration with F5 BIG-IP ASM

Quotium and F5 have integrated their Seeker and BIG-IP ASM products to create a solution that identifies and verifies vulnerabilities and creates application security policies to mitigate them with one keystroke.

Seeker analyzes the application behavior in response to simulated attacks and detects code vulnerabilities that pose a real threat. F5 BIG-IP ASM allows simple import of Seeker test results, and creates a virtual patch until a code fix will become available.

This integration applies for Seeker versions 3 and above, and BIG-IP ASM 11.3 and above.

Technical Procedure - Step By Step

Seeker

- 1. Open a Seeker project with test results to export.
- 2. Click on Project -> Export Results, select F5 BIG-IP ASM format and click OK.

Export Result	s		
Format:	F5 BIG-IP ASM	P	
Export to directory:	c:\F5		
		<u>о</u> к	Cancel

- 3. Fill in the folder to which results will be exported.
- 4. The result of this action will create an xml file of <projectName>.xml in the chosen directory.

- 5. F5 BIG-IP ASM
 - 1. Open the F5 BIG-IP ASM Configuration Utility.
 - 2. Under Security -> Application Security -> Security Policies, create a new Security policy. In the "Select Deployment Scenario" step, use "*Create a security policy using third party vulnerability assessment tool output*"

elect Deployment Scenario	Cancel Back Nex
Deployment Scenario	How do you want to build and deploy the security policy? Create a security policy automatically (recommended) Create a security policy manually or use templates (advanced) Create a security policy for XML and web services manually Create a security policy using third party vulnerability assessment tool output
Description	 Select Create a security policy automatically if you want the Application Security Manager to build a security policy automatically. This option is good for production traffic or for a OA environment. The policy building process can take a few days, depending on the number of requests sent and the size of the website. Select Create a security policy manually or use templates if you would like to use either the rapid deployment policy on one of the pre-configured baseline security templates. Using this scenario, the system buildis the security policy in Transparent mode to allow you to review and fine-tune the security policy. After you see that the security policy of Create a security policy automatically if you evolute any false positives, place the security policy in Blocking mode. Select Create a security policy of XNL and web services manually if you are configured baseline security balance to the deployment is in production or in a OA tab. Using this scenario, the system builds the security policy in Blocking mode. Select Create a security policy using third party unlerability assessment tool output if you have one of these vulnerability assessment tools. WhiteHat Sentinel, IBM® AppScan®, Cenzid® Hailstorm®, QualySGuar® or HP Webinspect. If you are using a different vulnerability assessment tool, select Generic Scanner to build a security policy.

3. Set policy name and attributes

Security » Application Security :	Security Policies Deployment Wizard : Configure Security Policy Properties
Configure Security Policy Properti	es Cancel Back Next
Security Policy Name	Seeker_Luftdata
Application Language	Unicode (utf-8)
Enforcement Mode	Transparent Blocking
Security Policy is case sensitive	Enabled
Differentiate between HTTP and HTTPS URLs	@ Enabled
	On this screen you configure the basic properties of the security policy. In this step you specify the Application Language which is the encoding used by your web application. The system uses the Application Language setting to accurately decode the clients' requests and normalize them before applying various security checks. You cannot change the Application Language not you have finished running the Deployment Wizard. If you are not sure which encoding should be used, select Auto detect , when available, and the system will automatically detect it for you. If Auto detect is not available, browse your web application with a browser.
	If you are using Internet Explorer, right click within the browser page, select Encoding and see which encoding is being used by the browser.
Description	 If you are using Mozilla Firefox, right click within the browser page, and select View Page Info. The encoding information is displayed.
	Enforcement Mode: Choose Transparent if you want ASM to only log requests that violate the security policy. Choose Blocking if you want ASM to log and block requests that violate the security policy.
	Disable the Security Policy is case sensitive check box if the security policy is case insensitive. Typically, case insensitive security policies run on Microsofi® operating systems. You cannot change the Security Policy is case sensitive setting for this security policy once you have finished running the Deployment Wizard.
	Keep the Differentiate between HTTP and HTTPS URLs check box enabled for the security policy to differentiate between HTTP and HTTPS URLs if the web application behaves differently for HTTP and HTTPS URLs. Disable this option if the web application behaves the same for HTTP and HTTPS. Disabling this option saves you from having to configure the same URL twice.
Cancel Back Next	



ulnerability Assessments Settings Cancel Back N		
Vulnerability Assessment Tool	Generic Scanner •	
Configure exceptions for the scanner IP Address	IP Address: Netmask: Ignore in Learning Suggestions Never log traffic from this IP Address Never log traffic from this IP Address	
Real Traffic Policy Builder®	@ Enabled	
Description	Select a vulnerability assessment tool. You can configure the scanner IP address as an IP address exception, meaning, an IP address that the system allows throughout the security policy. You can configure the system to perform the following: I gnore learning suggestions from traffic sent from this IP address. This way, the attacks sent by the scanner will not be offered as learning suggestions. Never log requests from the scanners IP address. Use this option if you would like to test the web application for underabilities without the protection of ASM. Keep the Real Traffic Delty Sulfare heable for the system to run the Automatic Policy Builder after the Deployment wizard is completed.	

4. Select Quotium Seeker from the Vulnerability Assessment Tool list

5. Click on Finish

rity Policy Configuration Summa	ıry	Cancel Back Fin	
ecurity Policy Properties			
Security Policy Name	Seeker_Luftdata		
Application Language Unicode (utf-8)			
Enforcement Mode	Transparent		
Security Policy is Case No			
Differentiate between HTTP and Yes Yes			
ulnerability Assessments Settin	gs		
/ulnerability Assessment Tool	Generic Scanner		
Real Traffic Policy Builder®	Enabled		

6. Now import the Seeker test results by clicking on the Import button

Security :» Application Security : Vulnerability Assessments : Vulnerabilities			
🛠 🗣 Vulnerabilities Settings			
Current edited policy Seeker_Luftdata (transparent)			Apply Policy
Vulnerabilities Found And Verified By Generic Scanner			Import
View Resolvable Vulnerabilities with Any ASM Status Show Filter Details *			Total Entries: 0
Generic Scanner Vulnerability Name	+ ASM Attack Type	+ Resolvable	Occurrences
No records to display.			



Secu				
±				
Curre	ent edited policy Seeker_Luftdata (tra	nsparent) 🔻		
Vulner				
View				
view	Import Generic Scan	ner Vulnerabilities		
A 0				
				ASM
. ♦ Ger	Import previously saved	Observe File Luffdelaum		ASM
Ģ Ger		Choose File Luftdata.xml		ASM
⇒ Ger	Import previously saved	Choose File Luftdata.xml		ASM
≑ Ger	Import previously saved	Choose File Luftdata.xml	Cancel Import	ASM

7. Choose Seeker results xml file and click on Import.

8. Review the import results and click on the Import button.

		d policy Seeker_Luftdata (transparent)		8
Vulner	Im	port Generic Scanner Vulnerabilities		
View	_			
≑ Ger	<	Uploaded vulnerabilities file is valid		AS
	Imp	ort vulnerabilities for the selected domain names:		
		Domain Name	Vulnerabilities	
		e-x230	15	
			Cancel Import	

9. The rules are now ready to use.

Security » Application Security : Vulnerability Assessments : Vulnerabilities				
Image: state				
Current edited policy Seeker_Luftdata (transparent)				Apply Policy
/ulnerabilities Found And Verified By Generic Scanner				Import
View All Vulnerabilities with Any ASM Status Show Filter Det	tails ¥			Total Entries: 8
Generic Scanner Vulnerability Name		ASM Attack Type	* Resolvable	Occurrences
SQL Injection - Binary Search - UnautheUsers		SQL-Injection	Yes	2
SQL Injection - Binary Search - Logincreen		SQL-Injection	Yes	1
SQL Injection - Non-Exploitable - UnauthUsers		SQL-Injection	Yes	1
SQL Injection - Union Select - UnauthentUsers		SQL-Injection	Yes	1
SQL Injection – Binary Search – AuthentiUsers		SQL-Injection	Yes	2
XSS - Standard Reflected - AuthenticatedUsers		Cross Site Scripting (XS	SS) Yes	3
XSS - Bracketless Reflected - UnauthentiUsers		Cross Site Scripting (XS	SS) Yes	1
XSS – Standard Reflected - UnauthenticatUsers		Cross Site Scripting (XS	SS) Yes	4
QL Injection - Binary Search - Authenticated Users Vulnerabilities List				Total Entries:
	Parameter	ASM Status + L	oad Time	
http://e-x230/luftdata/changeAccountName.aspx?AccountID=305	AccountName	Pending 201	4-05-14 10:13:10	
http://e-x230/luftdata/User/Chequing/ExpressTrans.aspx	txtOrgNote	Pending 201	4-05-14 10:13:10	
Resolve and Stage Resolve Ignore Cancel Ignore				Total Entries:

About Seeker

Seeker is the run-time code & data analysis application security testing solution for the software development life-cycle. By analyzing application behavior in response to simulated attacks, Seeker detects code vulnerabilities that pose a real threat. It assists in vulnerability management by generating exploits that demonstrate the risk to business critical data. Seeker is the perfect application security testing solution for the SDLC; it can be fully automated and works great in Agile and continuous integration environments.

