

English Delivery Only: Configuring F5 Advanced WAF

Cursusduur: 4 Dagen Cursuscode: F5N_BIG-AWF-CFG Trainingsmethode: Maatwerk

Beschrijving:

Learn to deploy and operate F5 Advanced WAF to protect web applications from the most critical security risks as described in the OWASP Top 10 list, from bots and other automated agents, and from Denial of Service (DoS) attacks operating at the HTTP layer of the web application delivery ecosystem. Through a combination of lecture, hands-on labs, and discussion, secure applications from the majority of common attacks by the end of the first day. Take technical deep dives into mitigating web scraping, account aggregation, account creation, ad fraud, CAPTCHA defeat, card cracking, carding, cashing out, credential stuffing, and other unwanted automated application abuse as described in the OWASP automated threats list.

Observe various vulnerability mitigations in real time by playing the role of an attacker in lab exercises. Gain context for securing applications, including analysis of HTTP and the elements of both modern and traditional web applications such as file types, parameters, URLs, and login pages. Learn to recognize client and server-side technologies such as JSON and AJAX, and learn to address vulnerabilities that might be present in common application development tools such as PHP, AngularJS, and others.

Review recommended practices for reporting, security event logging, and integration with third-party web application vulnerability scanners in detail. Follow prescribed step-by-step directions for activities initially, and gradually gain proficiency so that, by the end of class, little or no instruction is needed to complete simple to more complex configurations.

Maatwerk

Global Knowledge biedt zowel standaard- als maatwerkcursussen die zijn afgestemd op uw wensen en die als besloten cursus op uw eigen locatie of onze locatie gevolgd kunnen worden.

Doelgroep:

This course is intended for SecOps personnel responsible for the deployment, tuning, and day-to-day maintenance of F5 Adv. WAF. Participants will obtain a functional level of expertise with F5 Advanced WAF, including comprehensive security policy and profile configuration, client assessment, and appropriate mitigation types.

Vereiste kennis en vaardigheden:

Experience with LTM and prior WAF knowledge are not required.

Suggested Prework

The following free Self-Directed Training (SDT) courses, although optional, are helpful for any student with limited BIG-IP administration and configuration experience:

- Getting Started with BIG-IP
- Getting Started with Local Traffic Manager (LTM)
- Getting Started with F5 Advanced WAF

General network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course, including OSI model encapsulation, routing and switching, Ethernet and ARP, TCP/IP concepts, IP addressing and subnetting, NAT and private IP addressing, NAT and private IP addressing, default gateway, network firewalls, and LAN vs. WAN.

Examens en certificering

https://www.f5.com/learn/certification Exam vouchers are available at an additional cost - please ask for details.

Cursusinhoud:

Chapter 1: Introducing the BIG-IP System	Defining Attack Signatures	Defining Parameter Levels
Initially Setting Up the BIG-IP System	Attack Signature Basics	Other Parameter Considerations
Archiving the BIG-IP Configuration	Creating User-Defined Attack Signatures	Chapter 13: Automatic Policy Building
 Leveraging F5 Support Resources and Tools 	Defining Simple and Advanced Edit Modes	Defining Templates Which Automate Learning
Chapter 2: Traffic Processing with BIG-IP	Defining Attack Signature Sets	Defining Policy Loosening
Identifying BIG-IP Traffic Processing Objects	Defining Attack Signature Polish	Defining Policy Tightening
Understanding Profiles	Understanding Attack Signatures and Staging	Defining Learning Speed: Traffic Sampling
Overview of Local Traffic Policies	Updating Attack Signatures	Defining Track Site Changes
Visualizing the HTTP Request Flow	Defining Threat Campaigns	Chapter 14: Integrating with Web Application Vulnerability Scanners
Chapter 3: Overview of Web Application Processing	Deploying Threat Campaigns	Integrating Scanner Output
Web Application Firewall: Layer 7 Protection	Chapter 8: Positive Security Policy Building	Importing Vulnerabilities
Layer 7 Security Checks	Defining and Learning Security Policy Components	Resolving Vulnerabilities
Overview of Web Communication Elements	Defining the Wildcard	Using the Generic XML Scanner XSD file
Overview of the HTTP Request Structure	Defining the Entity Lifecycle	Chapter 15: Deploying Layered Policies
Examining HTTP Responses	Choosing the Learning Scheme	Defining a Parent Policy
How F5 Advanced WAF Parses File Types LIPLs and Parameters	How to Learn: Never (Wildcard Only)	Defining Inheritance
Types, URLs, and Parameters	How to Learn: Always	Parent Policy Deployment Use Cases
Using the Fiddler HTTP Proxy	How to Learn: Selective	Chapter 16: Login Enforcement and Brute Force Mitigation
Chapter 4: Overview of Web Application Vulnerabilities	Reviewing the Enforcement Readiness Period: Entities	Defining Login Pages for Flow Control
A Taxonomy of Attacks: The Threat Landscape	Viewing Learning Suggestions and	Configuring Automatic Detection of

	Staging Status	Login Pages
 Common Exploits Against Web Applications 	Defining the Learning Score	Defining Brute Force Attacks
Chapter 5: Security Policy Deployments: Concepts and Terminology	Defining Trusted and Untrusted IP Addresses	Brute Force Protection Configuration
Defining Learning	How to Learn: Compact	Source-Based Brute Force Mitigations
Comparing Positive and Negative Security Models	Chapter 9: Securing Cookies and other Header Topics	Defining Credential Stuffing
The Deployment Workflow	 The Purpose of F5 Advanced WAF Cookies 	Mitigating Credential Stuffing Chapter 17: Reconnaissance with Session
Assigning Policy to Virtual Server	Defining Allowed and Enforced Cookies	Tracking Defining Session Tracking
Deployment Workflow: Using Advanced Settings	Securing HTTP headers	Defining Session TrackingConfiguring Actions Upon Violation
Configure Server Technologies	Chapter 10: Visual Reporting and Logging	Detection
Defining Attack Signatures	Viewing Application Security Summary Data	Chapter 18: Layer 7 Denial of Service Mitigation
Viewing Requests	Reporting: Build Your Own View	Defining Denial of Service Attacks
 Security Checks Offered by Rapid Deployment 	Reporting: Chart based on filters	Defining the DoS Protection Profile
Chapter 6: Policy Tuning and Violations	Brute Force and Web Scraping Statistics	Overview of TPS-based DoS Protection
Post-Deployment Traffic Processing	Viewing Resource Reports	Creating a DoS Logging Profile
How Violations are Categorized		Applying TPS Mitigations
Violation Rating: A Threat Scale	PCI Compliance: PCI-DSS 3.0	Defining Behavioral and Stress-Based Detection
Defining Staging and Enforcement	Analyzing RequestsLocal Logging Facilities and	Chapter 19: Advanced Bot Defense
Defining Enforcement Mode	Destinations	Classifying Clients with the Bot Defense Profile
Defining the Enforcement Readiness Period	Viewing Logs in the Configuration Utility	Defining Bot Signatures
Reviewing the Definition of Learning	Defining the Logging ProfileConfiguring Response Logging	Defining F5 Fingerprinting

- Defining Learning Suggestions
- Choosing Automatic or Manual Learning
- Defining the Learn, Alarm and Block Settings
- Interpreting the Enforcement Readiness Summary
- Configuring the Blocking Response Page

Chapter 7: Using Attack Signatures and Threat Campaigns

- Chapter 11: Lab Project 1
- Chapter 12: Advanced Parameter Handling
- Defining Parameter Types
- Defining Static Parameters
- Defining Dynamic Parameters

- Defining Bot Defense Profile Templates
- Defining Microservices protection

Chapter 20: Final Projects

Extra informatie:

Please note that courseware is provided in e-kit format for training courses. Each delegate will be provided with an official set of e-kit courseware and there will be an option to purchase hard copy courseware (via F5) at an additional cost.

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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