

CONFIGURING F5 ADVANCED WAF (PREVIOUSLY LICENSED AS ASM)

DURATION - 4 DAYS

COURSE OVERVIEW

In this 4-day course, students are provided with a functional understanding of how to deploy, tune, and operate F5 Advanced Web Application Firewall to protect their web applications from HTTP-based attacks.

The course includes lecture, hands-on labs, and discussion about different F5 Advanced Web Application Firewall tools for detecting and mitigating threats from multiple attack vectors such as web scraping, Layer 7 Denial of Service, brute force, bots, code injection, and zero day exploits.

COURSE OBJECTIVES

- Describe the role of the BIG-IP system as a full proxy device in an application delivery network
- Provision the F5 Advanced Web Application Firewall
- Define a web application firewall
- Describe how F5 Advanced Web Application Firewall protects a web application by securing file types, URLs, and parameters
- Deploy F5 Advanced Web Application Firewall using the Rapid Deployment template (and other templates) and define the security checks included in each
- Define learn, alarm, and block settings as they pertain to configuring F5 Advanced Web Application Firewall
- Define attack signatures and explain why attack signature staging is important
- Deploy Threat Campaigns to secure against CVE threats
- Contrast positive and negative security policy implementation and explain benefits of each
- Configure security processing at the parameter level of a web application
- Deploy F5 Advanced Web Application Firewall using the Automatic Policy Builder
- Tune a policy manually or allow automatic policy building
- Integrate third party application vulnerability scanner output into a security policy
- Configure login enforcement for flow control
- Mitigate credential stuffing
- Configure protection against brute force attacks
- Deploy Advanced Bot Defense against web scrapers, all known bots, and other automated agents
- Deploy DataSafe to secure client-side data

WHAT YOU'LL LEARN

- Resource provisioning for F5 Advanced Web Application Firewall
- Traffic processing with BIG-IP Local Traffic Manager (LTM)
- Web application concepts
- Mitigating the OWASP Top 10 and other vulnerabilities
- Security policy deployment
- Security policy tuning
- Deploying Attack Signatures and Threat Campaigns
- Positive security building
- Securing cookies and other headers
- Reporting and logging
- Advanced parameter handling
- Using Automatic Policy Builder
- Integrating with web vulnerability scanners
- Login enforcement for flow control
- Brute force and credential stuffing mitigation
- Session tracking for client reconnaissance
- Using Parent and Child policies
- Layer 7 DoS protection
- Transaction Per Second-based DoS protection
- Layer 7 Behavioral DoS Protection
- Configuring Advanced Bot Defense
- Web Scraping and other Microservice Protection
- Working with Bot Signatures
- Using DataSafe to Secure the client side of the Document Object Model

PREREQUISITES

- OSI model encapsulation
- Routing and switching
- Ethernet and ARP
- TCP/IP concepts
- IP addressing and subnetting
- NAT and private IP addressing
- Default gateway
- Network firewalls
- LAN vs. WAN

WHO SHOULD ATTEND?

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.

- Experience with LTM is not required.
- Prior WAF knowledge is not required.
- This course is on the list of approved study resources for the F5 ASM 303 certification exam.

