

# Configuring F5 Advanced WAF

Course code: F5\_AWF

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 web scraping, Layer 7 Denial of Service, brute force, bots, code injection, and zero day exploits. This course is on the list of approved study resources for the F5 ASM 303 certification exam

## What we teach you

- Describe the role of the Advanced 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 policies
- 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
- Deploy policies using manual or automated approach
- Deploy Advanced Bot Defense against web scrapers, all known bots, and other automated agents
- Deploy DataSafe to secure client-side data

## Required skills

- Basic HTTP and HTML concepts
- Basic security concepts
- Common network terminology
- Web application terminology

## Course outline

- 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

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