

AKAMAI WEB APPLICATION AND API PROTECTION

Course Overview and Agenda

March 2023





Course Overview

The Akamai Web Application and API Protection is a comprehensive course that focuses on configuring and maintaining App & API Protector (AAP) with Advanced Security Management (ASM) using the new Adaptive Security Engine. The course starts with setting up a basic configuration utilizing default best practices. It describes the concepts involved in analyzing and tuning the configuration to maintain it. The participants learn how to protect both APIs and web applications. They are also taught how to detect bots and apply actions to those that pose an immediate threat with the new Bot Visibility & Mitigation (BVM) feature.

The topics presented introduce theoretical knowledge complemented with a suitable hands-on component (eg: a group activity or a lab). The course also outlines common use cases for enhanced user experience.

Objectives

At the end of this course, participants will be able to:

- Describe the basics of the Akamai Intelligent Edge Platform.
- Explain the Threat Landscape as it applies to Web Application Security.
- Describe the features of the Application & API Protection products.
- Configure and activate AAP.
- Test the AAP configuration for APIs and web applications.
- Analyze the behavior of the configuration using reporting and alerting tools.
- Tune AAP in accordance with the results of the analysis.
- Discover the DevOps capabilities using our Security APIs.



Agenda

The Akamai Web Application and API Protection course curriculum can be delivered either as:

- CLASSROOM TRAINING: 2 day (8 hours)
- ONLINE TRAINING: 3 days (4,5 hours each)

The agenda for this training is listed below.



Duration (min)	Module Name & Description
30	MODULE 1: INTRODUCTION This module is an introduction to Akamai, the Cloud Security Solutions portfolio, and the Akamai Control Center.
30	MODULE 2: THREAT LANDSCAPE AND WEB APPLICATION SECURITY This module will cover the basics of Web Application Security, such as OWASP, common attack trends, and how bots are designed, developed and used to attack web applications.
60	MODULE 3: SITE DELIVERY COMPONENTS This module will describe the components used in basic site delivery like Site Shield, Site Failover, Compliance Management, etc. and how they can be edited to optimize the configuration and provide elements of security within the delivery configuration. LAB: CREATING A DELIVERY CONFIGURATION LAB: OPTIMIZING A DELIVERY CONFIGURATION
30	MODULE 4: INTRODUCING AAP-ASM This module will introduce the new App & API Protector (AAP) with Advanced Security Management using the new Adaptive Security Engine, discuss the differences between AAP-ASM and Kona Site Defender or Web Application Protector, and how to upgrade into AAP-ASM from an existing product.
150	MODULE 5: SECURITY CONFIGURATION This module discusses the new features of the App & API Protector (AAP) with Advanced Security Management, and how to configure the various components such as Selected Hosts and Match Targets, Rate Controls, Application Layer Controls, Network Layer Controls, and Slow POST protection. LAB: SETTING UP A SECURITY CONFIGURATION
60	MODULE 6: PROTECTING API TRAFFIC This module focuses on the details of API protection and how to set up a configuration for the protection of APIs.
30	MODULE 7: CLIENT REPUTATION This module focuses on what Client Reputation is and how it fits into Akamai's layered defense concept. LAB: CLIENT REPUTATION





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