AKAMAI WEB PERFORMANCE AND OFFLOAD

Course Overview and Agenda

March 2023

Akamai

Course Overview

The Akamai Web Performance and Offload course is a training in our Akamai App and API Performance solutions designed to give you a deeper understanding of those features and optimizations specifically designed to give you greater web performance and origin offload. It consists of presentation material as well as hands-on lab experience to help you get a thorough understanding of these features and how to implement them.

Objectives

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

- Describe the performance and offload features of the Akamai App and API Performance solutions portfolio.
- Describe the need for performance measurement and a variety of testing tools and best practices
- Configure and run performance measurements tests using WebPageTest to measure baseline web page performance, as well as performance improvement as a result of implementation of Akamai performance and offload features.
- Configure performance and offload features of the Akamai App and API Performance products to improve the performance of a demo site.
- Use Akamai debug headers to understand how Akamai is affecting caching at the Edge.

Prerequisites

- Have a working knowledge of Akamai Control Center and Property Manager, in particular.
- Have taken the Akamai University Web Performance Foundations course or have equivalent knowledge based on experience working with Akamai App and API Performance products and Property Manager.

Agenda

The Akamai Web Performance and Offload course curriculum consists of either:

- CLASSROOM TRAINING: 1 day (8 hours),
- ONLINE TRAINING: 2 days (4,5 hours each).

The agenda for this training is listed below.

Duration (min)	Module Name & Description
40	**MODULE 1: INTRODUCTION TO PERFORMANCE & OFFLOAD TRAINING** This module explains the need for performance and offload features of Akamai App and API Performance products and how Akamai facilitates performance and offload of customer content. . **LAB: GETTING UP AND RUNNING**
40	**MODULE 2: PERFORMANCE MEASUREMENT** This module discusses the need for Performance Measurement and the various tools used for it. **LAB: BASELINE PERFORMANCE MEASUREMENT**
60	**MODULE 3: STATIC CACHING** This module describes how static content can be cached at the Edge and at the Client, and the various purging mechanisms. **LAB: STATIC CACHING** **LAB: STATIC CACHING FOLLOW-UP WITH DEBUG HEADERS**
70	**MODULE 4: IMAGE OPTIMIZATION** This module explains the limitations of caching images and how Akamai solves them. **LAB: OPTIMIZING IMAGES WITH IMAGE MANAGER** **LAB: PERFORMANCE MEASUREMENT WITH IMAGE MANAGER**
80	**MODULE 5: DYNAMIC CACHING** This module describes how dynamic caching works on the Edge and how we use Flexible Cache Key to allow us to cache different versions of content with the same URL. **LAB: DYNAMIC CACHING** **LAB: DYNAMIC CACHING FOLLOW-UP WITH DEBUG HEADERS**

20	**MODULE 6: ADDITIONAL BEST PRACTICES** This module describes some of the best practices related to the performance and offload features of Performance products.
10	**MODULE 7: SUMMARY** This module reviews of what we've covered in this course
55	**FEEDBACK SURVEY & QUIZ** Give us feedback on the quality of our course and instructors.