**radware**

Course Code: 100-100

# Alteon Secure

# Training Course Outline

Version 34.x

INTEGRATED WAF

# 1 Introduction

Radware integrated WAF - Radware's Web Application Firewall (WAF), ensures fast, reliable and secure delivery of mission-critical Web applications and APIs for corporate networks and in the cloud. Radware WAF is an NSS recommended, ICSA Labs certified and PCI compliant WAF that combines positive and negative security models to provide complete protection against web application attacks, access violations, attacks disguised behind CDNs, API manipulations, advanced HTTP attacks (slowloris, dynamic floods), brute force attacks on login pages and more.

At the core of Radware's web application and API protection Solution suite, Integrated WAF is a web application firewall that provides patent-protected technology to create and optimize security policies in real-time for widest security coverage with the lowest false positives and minimal operational effort. Radware's Web application security technology features a variety of deployment modes – as a stand-alone or integrated on an ADC, on-premises and in the cloud, inline or out-of-band, and even a Kubernetes edition.

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# 2 Purpose and Scope

This course, **Alteon Secure**, is a structured 2-day certification training.

It consists of a *practical* and a *theoretical* part.

In this course we will focus on the features that extend the Alteon load balancer with a web application firewall (WAF).

The course starts with all the basics needed to set up an Alteon Integrated WAF from scratch and walks you through the various installation tasks. We explain how protection principles are set up and the basic concepts behind this solution. An introduction to the Integrated WAF security filter is also included. For customers who own a DefensePro, we offer signaling to DefensePro to mitigate the attack at the perimeter. The configuration is covered in this training. We discuss monitoring with the local dashboard and Cyber Controller Analytics in theory and practice. Our final topic is troubleshooting. We explain the use of forensics to obtain information and how to fix the setup.

# 3 Target Audience and Prerequisites

This course is intended for technicians who want to learn about Radware's web application firewall (WAF) and have a solid knowledge of web applications. Knowing how applications and application protocols are working (like HTTP, HTTPS) is a key asset for understanding this kind of application-level attacks. Basic knowledge of penetration testing is very useful. Knowledge of Alteon standard server load balancing would help to work with the setup.

The features and functions of Radware devices discussed in this document are based on the following firmware version.

| Product | Version |
| --- | --- |
| Alteon / Integrated WAF | 34.x / 7.x |
| Cyber Controller | 10.x |

## 4  Objectives

- Understand Integrated WAF's main capabilities and how they work
- Install and deploy an Integrated WAF using Alteon for host
- Understand how to monitor Integrated WAF mitigation
- Perform basic troubleshooting

## 5  Alteon_Secure Presentations and Hands-On Labs

### 5.1 Day 1

## Presentations:

- HTTP Basics
- Web Application Security
- Introduction to Integrated WAF
- Integrated WAF Overview
- Integrated WAF Protection Principles

## Hands-On Labs:
- AlteonSecure_Initial_Lab
- AlteonSecure_Scenario A

### 5.2 Day 2

## Presentations:

- Integrated WAF Basic Concepts
- Integrated WAF Filters Overview
- Integrated WAF Signaling to DefensePro
- Integrated WAF Monitoring and Reporting
- Integrated WAF Troubleshooting

## Hands-On Labs:
- AlteonSecure_Scenario B
- AlteonSecure_Scenario C
- AlteonSecure_Scenario D
- CyberController-Analytics

## 6   Certification

This course is the certification course to get recognized as:
**Radware Certified Application Security Specialist (RCAScS)**

To be certified, students need to complete a theoretical part and an online exam.
The online exam is available from any location, only internet access is required.
The first attempt is included free of charge as part of the Alteon Secure course.

### 6.1 Online Certification Exam
The online exam consists of Multiple-Choice-Questions based on the content presented
in the theoretical part and test student's understanding of the solution.

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