



# Cloud WAF (Incapsula) Web Security Administration

Training Course

## **Incapsula Web Security Administration**

### Training Course

Required Training Units: 1 (TR-UNIT) *Training Units are good for 1 year from the time of purchase.*

### **Overview**

In this training course, students will learn:

- The benefits of the optimization, security and redundancy features of Incapsula DDoS protection, Web Site Security, Content Delivery Network and Load Balancer products and solutions.
- Traffic routing, inspection and filtering capabilities between clients and web applications via the Incapsula network.
- Onboarding of an Incapsula Web Application Firewall to protect an organizations web site
- Managing account settings and setting up new system users
- The Incapsula security model, setting up web application security protections, customized rules and handling Layer 7 DDoS Attacks
- Benefits and performance improvements available with various caching options in an Incapsula CDN
- Configuration of load balancing within and between data centers
- Setting up log integration solution, choosing the appropriate retrieve mode, and retrieving logs from a cloud repository

### **Who Should Attend**

This course is intended for anyone who will need to evaluate, configure, or maintain Incapsula Web Security or DDoS Protection products; such as, database administrators, security experts, system administrators, Web application developers, and other IT professionals.

### **Prerequisites**

Before taking this course, make sure you have the following skills:

- Working knowledge of DNS, Application Control, SSL, and Web Application Firewalls
- General understanding of networkig protocols, application layer Web protocols, and application layer security concepts

## Lesson Objectives

### Introduction

- Describe the path data takes between clients and the web applications being protected by Incapsula.
- Describe the Incapsula Network.
- Identify the Incapsula PoP's elements.

### Lesson 1: WAF Onboarding

- Describe the Incapsula WAF Onboarding Process.
- Identify the steps to add a new site into Incapsula protection.
- List the two options available for SSL Support.
- Explain the Domain Redirection feature and its benefits.
- Identify the DNS records to change to protect the organization's naked and full domain with Incapsula.
- Locate where DNS record issues display in the Incapsula interface.

### Lesson 2: Account Management

- Follow the procedure to create additional users in the Incapsula web interface.
- Configure account level settings.
- Describe the functions of the status page and how to subscribe to it.

### Lesson 3: Web Application Security

- Describe Incapsula Client classification process.
- Explain the function of the Access Control security layer about web application protection.
- Explain how the Bot Mitigation security layer addresses automated threats to the web application.
- List Incapsula WAF features and provide examples of attack types blocked.
- Read and analyze security events.
- Describe the function of the Custom Rules & Policy Engine.
- Configure IncapRules to address common use case scenarios.
- Handle a Layer 7 DDoS Attack.

### Lesson 4: CDN Performance

- Describe the flow HTTP requests take between client, Incapsula proxies and origin servers.
- Describe how the cache is built within a PoP.
- Define Static and Dynamic content and explain their differences.
- Identify the four Caching Mode options and their Incapsula web caching behavior.
- Explain the task of purging the cache and describe a situation where it would be desirable.

- Locate the Incapsula HTTP header that identifies the caching status of a webpage and identify cached and non-cached pages.
- Debug performance issues using X-ray headers.

### Lesson 5: Load Balancing

- Describe the redundancy options available when Incapsula is used without the Load Balancing feature.
- Explain what forms of Load Balancing are available with the Load Balancing feature.
- Identify how Incapsula handles a server outage.
- Configure Incapsula to load balance within a single data center.
- Configure Incapsula to load balance between two or more data centers.
- Configure Incapsula to load balance between data centers based on client geography.
- Configure server health checks and minimum healthy server thresholds.
- Describe the function of Application Delivery rules.
- Configure AD rules to address common use case scenario.

### Lesson 6: Logs Integration

- Describe log collection and retrieval flows.
- List the options available for Logs retrieval.
- Configure Log integration settings using the web user interface.
- Retrieve your logs from the cloud repository using a python connector.

## Getting Started

### Delivery Options

#### Digital, On-Demand

Self-paced, e-learning hosted on Imperva University. Students receive:

- ✓ **Four-six hours of video instruction**
- ✓ **Video lab walkthrough**

## How to Purchase

### Purchase Training Units via Purchase Order

Contact your local Imperva sales representative or contact your local Imperva partner for training unit price quote and to submit a Purchase Order for training units and receive an **Imperva SRV#** for use in class enrollment. If you do not have a sales contact, please call **1-866-926-4678**, or complete our information [form](#).

### Purchase Classes via Credit Card

Training can be purchased using a major credit card, during the course enrollment process.

## How to Enroll

**IMPORTANT:** Only individuals with an Imperva portal account username and password can enroll in classes. If you do not have a Customer or Partner portal account, you may request one from our site. If you need assistance with the account request, [contact support@imperva.com](mailto:contact.support@imperva.com).

To enroll, have your portal username and password available, visit [the Imperva Training website](#) and register for your class from the Training Calendar. Select either Credit Card or Training Units as your payment option.

If you select Training Units, you may be asked to enter an Imperva SRV# (received when Purchase Order is finalized). Note: Company PO#s are not accepted for payment during class enrollment process.