

## Summary

This document contains the results of a second comparative penetration test conducted by a team of security specialists at Zero Science Lab against two cloud-based Web Application Firewall (WAF) solutions: Incapsula and Cloudflare. This test was designed to bypass security controls in place, in any possible way, circumventing whatever filters they have. Given the rise in application-level attacks, the goal of the test was to provide IT managers of online businesses with a comparison of these WAFs against real-world threats in simulated real-world conditions.

**Zero Science Lab** is a Macedonian Information Security Research and Development Laboratory that specializes in information security hardening, consulting, network security, vulnerability research, software and hardware security assessment, penetration testing, malware analysis, forensics and much more - <http://www.zeroscience.mk>

## Background

In February 2013, we conducted the first [comparative pentest analysis](#) of the CloudFlare, Incapsula and ModSecurity Web Application Firewall (WAF) solutions. The goal of a WAF is to block hacker attacks / unwanted malicious traffic to your web application with as few false positives as possible.

Since then, all three vendors had replied to the findings, applying patches to the discovered bypasses and improving their products to protect their customers from web attacks. In August 2013, CloudFlare even launched a new rule-based WAF to augment their existing heuristics-based WAF (which we used in the first pentest). Since Incapsula also uses a rule-based approach, we decided that now is a good time to run a follow-up pentest comparison, this time focusing only on CloudFlare's new WAF and Incapsula's WAF. Over the past 8 months, both vendors have improved their firewall solution by adding extra features, upgrading the rulesets and signature detection algorithms.

The difference between this report and the previous one is that now we have focused more on real-world web application exploitation applying known encoding techniques, as well as the rate of false positives.

## Results

### 1. Attack Vector coverage

The table below shows the overall statistics of the exploits testing:

| WAF Pentesting - October 2013 | Incapsula<br>"Business" Plan<br>\$59/Site/Month | CloudFlare<br>"Business" Plan<br>New Rule-based WAF<br>\$200/Site/Month |
|-------------------------------|-------------------------------------------------|-------------------------------------------------------------------------|
| Total XSS Tests               | 124                                             | 124                                                                     |
| XSS Bypassed                  | 2                                               | 11                                                                      |
| XSS Blocked                   | 122                                             | 113                                                                     |
| Total SQLi Tests              | 221                                             | 221                                                                     |
| SQLi Bypassed                 | 1                                               | 102                                                                     |
| SQLi Blocked                  | 220                                             | 119                                                                     |
| Total LFI/RFI Tests           | 25                                              | 25                                                                      |
| LFI/RFI Bypassed              | 4                                               | 25                                                                      |
| LFI/RFI Blocked               | 21                                              | 0                                                                       |
| Total RCE Tests               | 15                                              | 15                                                                      |
| RCE Bypassed                  | 2                                               | 12                                                                      |
| RCE Blocked                   | 13                                              | 3                                                                       |

# Cloudflare Vs Incapsula Round 2 Exploit Database

**Raffaela Di Napoli**



## **Cloudflare Vs Incapsula Round 2 Exploit Database:**

## **Cloudflare Vs Incapsula Round 2 Exploit Database** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Cloudflare Vs Incapsula Round 2 Exploit Database**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<http://www.digitalismags.com/results/virtual-library/index.jsp/cracking%20the%20ap%20physics%202%20exam%202016%20edition%20college%20test%20preparation.pdf>

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