

Web Application Security Testing – Project Report

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Tools Used: OWASP ZAP

Project Objective

Conduct security testing on a sample web application.
Generate a detailed report and recommend mitigation strategies.

Tools & Technologies

OWASP ZAP: For automated vulnerability scanning and active attacks.

Target Application:

<http://zero.webappsecurity.com>

Testing Approach:

1. Selected the target URL.
2. Crawled the application using Spider and AJAX Spider.
3. Performed Active Scan to identify vulnerabilities.
4. Collected and reviewed the ZAP security report.
5. Analyzed risks and suggested mitigations.

Sites

The following sites were included:

- <http://zero.webappsecurity.com>
- <http://testphp.vulnweb.com>

(If no sites were selected, all sites were included by default.)

An included site must also be within one of the included contexts for its data to be included in the report.

Risk levels

Included: High, Medium, Low, Informational

Excluded: None

Confidence levels

Included: User Confirmed, High, Medium, Low

ZAP Report Summary

Results Overview:

Total Alerts: 15

Medium Risk: 7 alerts

Low Risk: 3 alerts

Informational: 5 alerts

High Risk: 0 alerts

		Confidence				
Risk		User Confirmed	High	Medium	Low	Total
	High	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
	Medium	0 (0.0%)	1 (6.7%)	5 (33.3%)	1 (6.7%)	7 (46.7%)
	Low	0 (0.0%)	1 (6.7%)	2 (13.3%)	0 (0.0%)	3 (20.0%)
	Informational	0 (0.0%)	0 (0.0%)	1 (6.7%)	4 (26.7%)	5 (33.3%)
	Total	0 (0.0%)	2 (13.3%)	8 (53.3%)	5 (33.3%)	15 (100%)

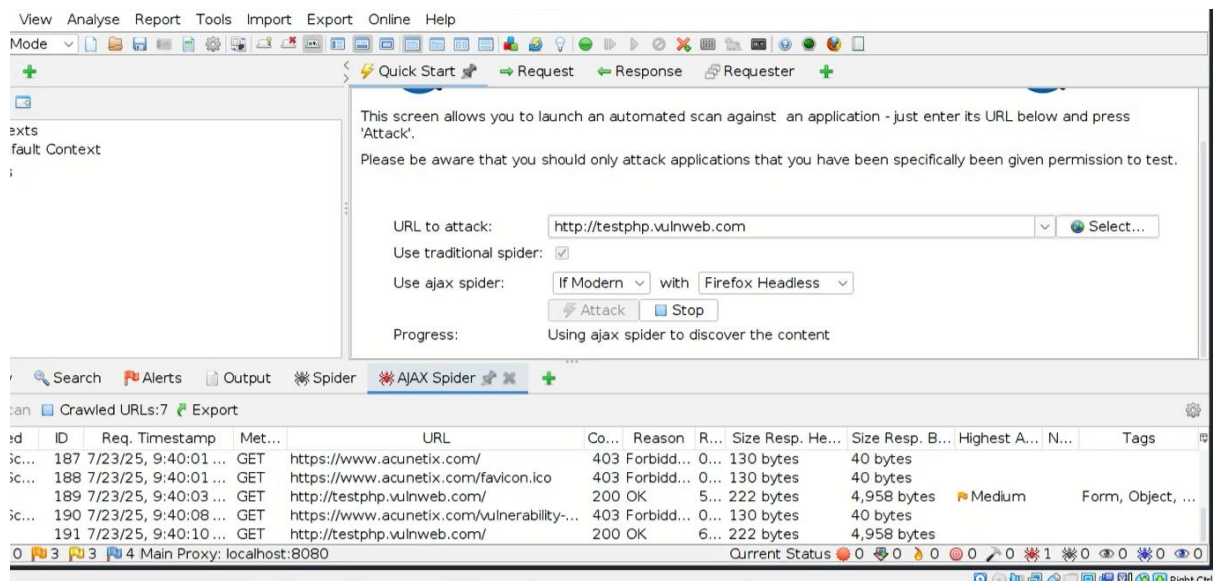
ZAP risk-confidence

Vulnerabilities Identified

Common Issues Found:

1. Missing X-Frame-Options Header
 2. Autocomplete Enabled on Password Fields
 3. Cookie without Secure and Http Only flags
 4. Content-Type sniffing not prevented
 5. Information disclosure via headers
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I used OWASP ZAP's AJAX Spider to scan the test website
<http://testphp.vulnweb.com>



The tool automatically crawls the site to discover all reachable URLs, including dynamic content loaded via JavaScript.

This helps identify hidden endpoints and prepares the application for further vulnerability testing.

The scan shows both successful and restricted responses, indicating access controls and available resources.

Summary:

Successfully performed web application security testing using OWASP ZAP.

Discovered multiple vulnerabilities in the sample app.

Gained hands-on experience in vulnerability scanning and report generation.

Learned the importance of secure coding and mitigation planning.