



# Websocket Endpoint Analysis Report

Insecure WebSocket Implementations: Crawling  
Public Sites, Testing Endpoints for  
Vulnerabilities, and Reporting Impact Analysis

Report Generated on : June 20, 2025

Report Generated By – Sushma E (CEH)

# WebSocket Security Scan Report

## Executive Summary

Real-time apps increasingly rely on WebSocket connections, but insecure implementations—such as missing origin checks or weak authentication—can allow hijacking or sensitive data exposure.

To address this, we developed an automated scanner that crawls public web applications, detects vulnerable WebSocket endpoints, and analyzes their real-world impact.

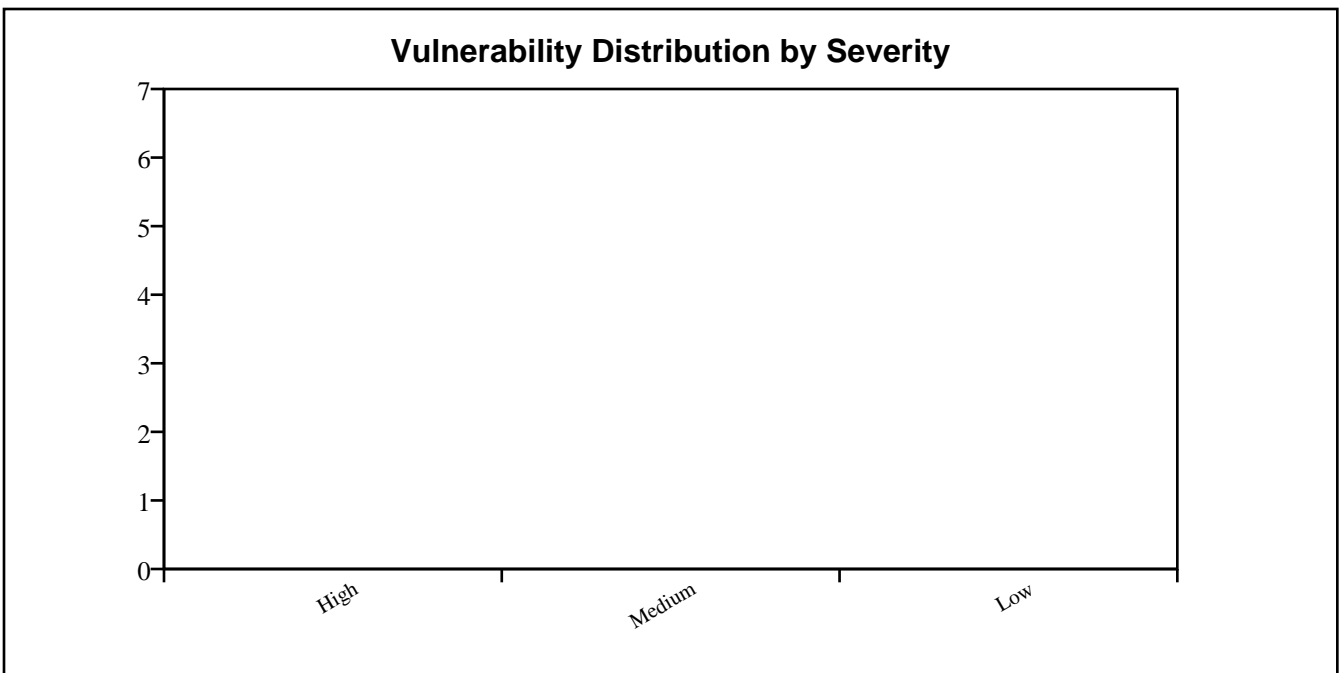
- Crawl and detect active WebSocket endpoints from public websites.
- Apply origin-header enforcement and protocol fuzzing tests to assess security gaps.
- Generate structured PDF reports summarizing detected vulnerabilities and severity.

Scan Start Time:	2025-06-20 13:50:45
Scan End Time:	2025-06-20 13:50:56
Total Scan Duration:	15.32 seconds
Total URLs Scanned:	0
High Severity Vulnerabilities:	0
Medium Severity Vulnerabilities:	0
Low Severity Vulnerabilities:	0

## All Scanned Websites

This section lists all scanned websites and summarizes the overall vulnerability distribution by severity. The bar graph below visualizes the number of High, Medium, and Low severity vulnerabilities identified across all scanned sites.

#	Website
---	---------

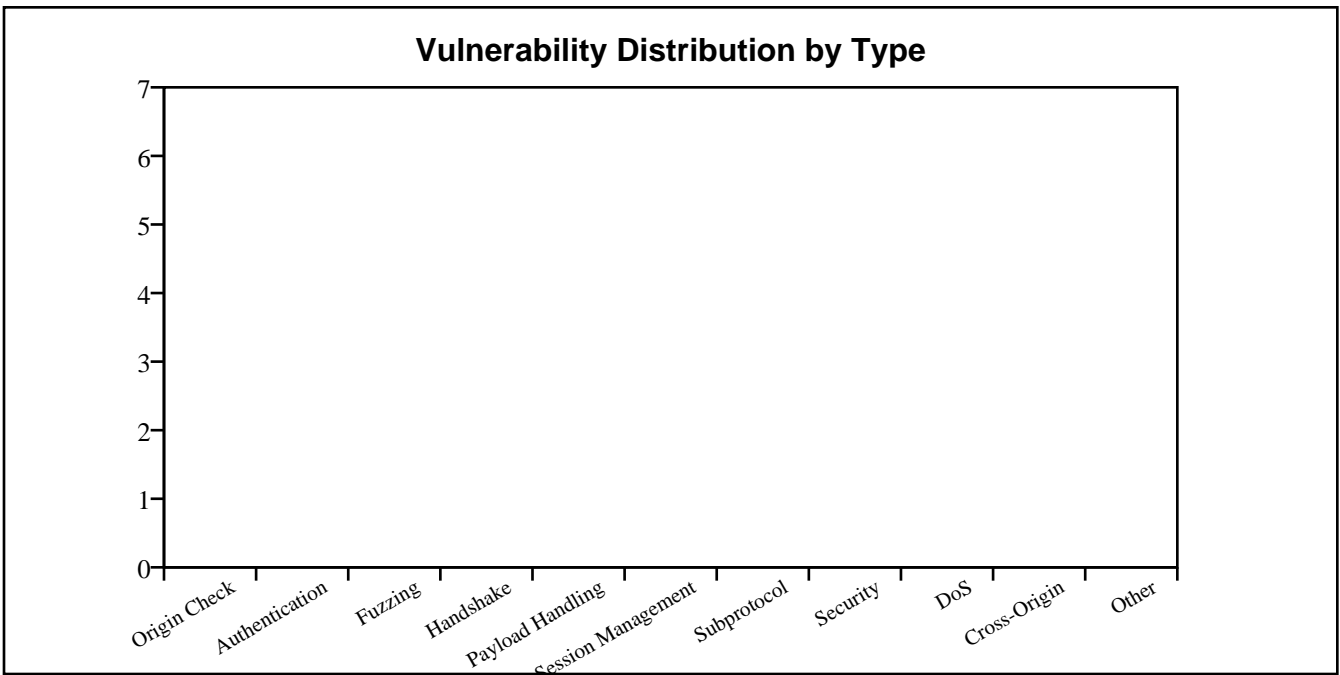


## Vulnerability Summary by Type

This section summarizes key categories of vulnerabilities found during the scan. It groups issues like missing origin checks, weak authentication, insecure handshakes, and over 80 other attack for test to highlight common WebSocket flaws.

The bar chart below visualizes how many vulnerabilities were found in each category. This helps quickly identify the most common and critical problem areas across scanned applications.

Type	Count
Origin Check	0
Authentication	0
Fuzzing	0
Handshake	0
Payload Handling	0
Session Management	0
Subprotocol	0
Security	0
DoS	0
Cross-Origin	0
Other	0



## Detailed Scan Results

This section provides an in-depth breakdown of each scanned target. For every URL, it lists the scan duration, number of URLs crawled during reconnaissance, and the WebSocket endpoints discovered. It helps identify how many potential communication channels were exposed for testing. Each target's vulnerability distribution is summarized by severity (High, Medium, Low) using a bar chart, followed by a detailed list of detected vulnerabilities. The section also documents the types of attacks performed and the exact WebSocket endpoints and internal URLs involved in the scan. This allows for a thorough understanding of the security posture and exposure of each target.