snyk Vulnerability DB

Snyk Vulnerability Database > npm > jszip

Denial of Service (DoS)

Affecting jszip package, versions <3.7.0



Overview

jszip is a Create, read and edit .zip files with JavaScript http://stuartk.com/jszip

Affected versions of this package are vulnerable to Denial of Service (DoS). Crafting a new zip file with filenames set to Object prototype values (e.g._proto_, toString, etc) results in a returned object with a modified prototype instance.

PoC

const zip = await jszip.loadAsync(demoZip); zip.files.toString(); // this will throw return zip; } loadZip();

Details

Denial of Service (DoS) describes a family of attacks, all aimed at making a system inaccessible to its intended and legitimate users

Unlike other vulnerabilities, DoS attacks usually do not aim at breaching security. Rather, they are focused on making websites and services unavailable to genuine users resulting in downtime.

One popular Denial of Service vulnerability is DDoS (a Distributed Denial of Service), an attack that attempts to clog network pipes to the system by generating a large volume of traffic from many machines.

When it comes to open source libraries, DoS vulnerabilities allow attackers to trigger such a crash or crippling of the service by using a flaw either in the application code or from the use of open source libraries.

Two common types of DoS vulnerabilities:

ArAAAALAAAAAAAA==', 'base64');

- High CPU/Memory Consumption- An attacker sending crafted requests that could cause the system to take a disproportionate amount of time to process. For example, commons-fileupload:commons-fileupload.
- Crash An attacker sending crafted requests that could cause the system to crash. For Example, npm_ws_package

References

- GitHub Commit
- GitHub Issue
- GitHub PR

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Snyk CVSS Exploit Maturity Proof of concept ② Attack Complexity Low ② See more

> NVD

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Snyk ID	SNYK-JS-JSZIP-1251497
Published	25 Jul 2021
Disclosed	18 Apr 2021
Credit	Dave Holoway

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