## **snyk** Vulnerability DB

Snyk Vulnerability Database > npm > fast-string-search

### **Denial of Service (DoS)**

Affecting fast-string-search package, versions \*

INTRODUCED: 3 FEB 2022 CVE-2022-22138 ②

CWE-400 ② FIRST ADDED BY SNYK

How to fix?

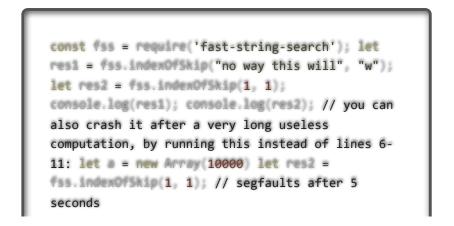
There is no fixed version for fast-string-search.

#### Overview

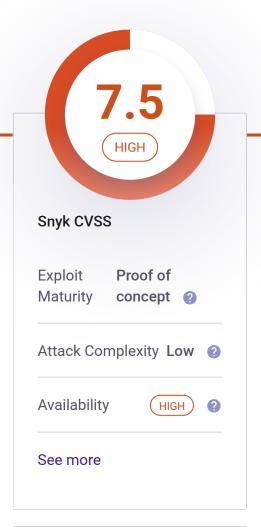
fast-string-search is a module that can search substrings in a string by using N-API and boyer-moore-magiclen.

Affected versions of this package are vulnerable to Denial of Service (DoS) when computations are incorrect for non-string inputs. One can cause the V8 to attempt reading from non-permitted locations and cause a segmentation fault due to the violation.

#### PoC



Q Search by package n





# Do your applications use this vulnerable package?

In a few clicks we can analyze your entire application and see what components are vulnerable

in your application, and suggest you quick fixes.

#### 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:

- 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, commonsfileupload:commons-fileupload.
- Crash An attacker sending crafted requests that could cause the system to crash. For Example, npm ws package

Test your applications



#### Snyk Learn

Learn about Denial of Service (DoS) vulnerabilities in an interactive lesson.

Start learning

SnykSNYK-JS-

FASTSTRINGSEARCH-2392367

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