Denial of Service (DoS)

Affecting colors package, versions **>1.4.0**

INTRODUCED: 9 JAN 2022 CVE-2021-23567 CWE-400 FIRST ADDED BY SNYK

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How to fix?

There is no fixed version for `colors`.

Overview

colors is a color manipulation library.

Affected versions of this package are vulnerable to Denial of Service (DoS) that was introduced through an infinite loop in the `americanFlag` module.

Unfortunately this appears to have been a purposeful attempt by a maintainer of `colors` to make the package unusable, other maintainers' controls over this package appear to have been revoked in an attempt to prevent them from fixing the issue.

Vulnerable Code

```
for (let i = 666; i < Infinity; i++;) {
```

Alternative Remediation Suggested

- Pin dependency to `1.4.0`

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

References

- Contributor Update and Response
- GitHub Issue
- Snyk Blog
- Vulnerable Code

Snyk CVSS

Attack Complexity	Low
Availability	HIGH

See more

NVD 7.5 HIGH

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Credit	Unknown

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