huntr

Open Redirect in digitalbazaar/forge



Reported on Sep 4th 2021

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parseUrl functionality in node-forge mishandles certain uses of backslash such as https://// and interprets the URI as a relative path. Browsers accept backslashes after the protocol, and treat it as a normal slash, while node-forge sees it as a relative path and leads to URL Redirection to Untrusted Site.

Proof of Concept

Create the following PoC file:

```
// poc.js
var forge = require("node-forge");
var url = forge.util.parseUrl("https:/\/\\www.github.com/foo/bar");
console.log(url);
```

Execute the following commands in another terminal:

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

Check the Output:

```
full: 'https://',
scheme: 'https',
host: '',
port: 443,
path: '/www.github.com/foo/bar',
fullHost: ''
```

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In the above example path should be "/foo/bar" or it should return it as null as per https://github.com/digitalbazaar/forge/blob/c666282c812d6dc18e97b419b152dd6ad98c802c/lib/util.js#L2266

Impact

Depending on library usage and attacker intent, impacts may include allow/block list bypasses, SSRF attacks, open redirects, or other undesired behavior.

Occurrences



CVE

CVE-2022-0122 (Published)

Vulnerability Type

CWE-601: Open Redirect

Severity

Medium (5.3)

Affected Version

*

Visibility

Public

Status

Fixed

Found by



ready-research

@ready-research



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

We have contacted a member of the **digitalbazaar/forge** team and are waiting to hear back a year ago

A digitalbazaar/forge maintainer a year ago

Maintainer

The whole forge.util.parseUrl API and other URL related APIs were removed in v1.0.0.

ready-research a year ago

Researcher

@maintainer Can you please validate this issue by clicking on Mark as valid. And confirm the fix. Thanks.

ready-research modified the report a year ago

A digitalbazaar/forge maintainer validated this vulnerability a year ago

ready-research has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

A digitalbazaar/forge maintainer marked this as fixed in 1.0.0 with commit db8016 a year ago

The fix bounty has been dropped 🗶

This vulnerability will not receive a CVE x

util.js#L2270 has been validated ✓

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