### huntr

# **URL Confusion When Scheme Not Supplied in** medialize/uri.js

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✓ Valid ) Reported on Mar 15th 2022

## Description

This is a URL confusion vulnerability.

When parsing a URL without a scheme and with excessive slashes, like ///www.example.com, URI.js will parse the hostname as null and the path as /www.example.com. Such behaviour is different from that exhibited by browsers, which will parse ///www.example.com as http://www.example.com instead. For example, the following will cause a redirect to http://www.example.com:

```
window.location.href = "///www.example.com";
```

This can lead to a variety of vulnerabilities including open redirects, where the target host is parsed and validated using URI.js.

### PoC

```
const uri = require('urijs');
let payload = "///evil.com";
console.log(new uri(payload));
```

### Output:

```
URI {
  _string: '',
  parts: {
    protocol: null,
    username: null,
    password: null.
```

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```
hostname: null,
urn: null,
port: null,
path: '/evil.com',
query: null,
fragment: null,
preventInvalidHostname: false,
duplicateQueryParameters: false,
escapeQuerySpace: true
},
_deferred_build: true
}
```

Node's WHATWG URL API and URL parsers of other languages would deem this as an invalid URL and throw an error.

Example of flawed validation and browser behaviour:

CVE CVE-2022-1233 (Published)

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CWE-115: Misinterpretation of Input Severity Medium (6.5) Visibility Status Found by Zhang Zeyu unranked V We are processing your report and will contact the medialize/uri.js team within 24 hours. We have contacted a member of the medialize/uri.js team and are waiting to hear back We have sent a follow up to the medialize/uri.js team. We will try again in 7 days. 8 months ago We have sent a second follow up to the medialize/uri.js team. We will try again in 10 days. A medialize/uri.js maintainer validated this vulnerability 8 months ago Zhang Zeyu has been awarded the disclosure bounty 🗸 The fix bounty is now up for grabs A medialize/uri.js maintainer marked this as fixed in 1.19.11 with commit 88805f 8 months ago

A medialize/uri.js maintainer 8 months ago

The fix bounty has been dropped 🗶

This vulnerability will not receive a CVE x

Chat with us

Zhang Zeyu 8 months ago

Researcher

Hi @admin will there be a CVE for this?

Jamie Slome 8 months ago

Admin

We can assign and publish a CVE if the maintainer is happy to proceed with one.

@maintainer - are you happy to assign and publish a CVE for this report?

A medialize/uri.js maintainer 8 months ago

Do I need to create a CVE via GitHub Security Advisory?

Jamie Slome 8 months ago

Admin

No, we can take care of it for you! We are also able to assign and publish CVEs 👍 Shall I proceed?

A medialize/uri.js maintainer 8 months ago

you decide, I'm good either way:)

Jamie Slome 8 months ago

Admin

Sure, I will get it sorted for you now:)

Jamie Slome 8 months ago

Admin

Assigned and published ♥

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