

`undici.request` vulnerable to SSRF using absolute URL on `pathname`

Moderate mcollina published GHSA-8qr4-xgw6-wmr3 on Aug 9

Package

 **undici** (npm)

Affected versions

= < 5.8.1

Patched versions

5.8.2

Description

Impact

undici is vulnerable to SSRF (Server-side Request Forgery) when an application takes in **user input** into the `path/pathname` option of `undici.request`.

If a user specifies a URL such as `http://127.0.0.1` or `//127.0.0.1`

```
const undici = require("undici")
undici.request({origin: "http://example.com", pathname: "//127.0.0.1"})
```

Instead of processing the request as `http://example.org//127.0.0.1` (or `http://example.org/http://127.0.0.1` when `http://127.0.0.1` is used), it actually processes the request as `http://127.0.0.1/` and sends it to `http://127.0.0.1`.

If a developer passes in user input into `path` parameter of `undici.request`, it can result in an *SSRF* as they will assume that the hostname cannot change, when in actual fact it can change because the specified `path` parameter is combined with the base URL.

Patches

This issue was fixed in `undici@5.8.1`.

Workarounds

The best workaround is to validate user input before passing it to the `undici.request` call.

For more information

If you have any questions or comments about this advisory:

- Open an issue in [undici repository](#)
- To make a report, follow the [SECURITY](#) document

Severity

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CVSS base metrics	
Attack vector	Network
Attack complexity	Low
Privileges required	None
User interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity	None
Availability	None

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

CVE ID

CVE-2022-35949

Weaknesses

CWE-918

Credits

 Haxatron