CVE-2022-31183

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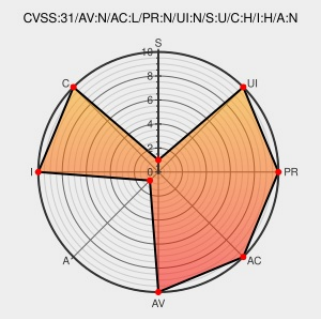
CVE-2022-31183 - advisory for GHSA-2cpx-6pqp-wf35

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Fs2 from Typelevel contain the following vulnerability:

fs2 is a compositional, streaming I/O library for Scala. When establishing a server-mode `TLSSocket` using `fs2-io` on Node.js, the parameter `requestCert = true` is ignored, peer certificate verification is skipped, and the connection proceeds. The vulnerability is limited to: 1. `fs2-io` running on Node.js. The JVM TLS implementation is completely independent. 2. `TLSSocket`s in server-mode. Client-mode `TLSSocket`s are implemented via a different API. 3. mTLS as enabled via `requestCert = true` in `TLSParameters`. The default setting is `false` for server-mode `TLSSocket`s. It was introduced with the initial Node.js implementation of fs2-io in 3.1.0. A patch is released in v3.2.11. The requestCert = true parameter is respected and the peer certificate is verified. If verification fails, a SSLException is raised. If using an unpatched version on Node.js, do not use a server-mode TLSSocket with requestCert = true to establish a mTLS connection.

CVE-2022-31183 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **typelevel** - **fs2** version **>= 3.1.0, < 3.2.11**

CVSS3 Score: 9.8 - CRITICAL

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	HIGH	HIGH	HIGH

CVE References

Description	Tags	Link
mTLS client verification is skipped in	github.com	CONFIRM github.com/typelevel/fs2/security/advisories/GHSA-2cpx-6pqp-

Node.js TLS server · Advisory · typelevel/fs2 · GitHub	text/html	wf35
How to use `new tls.TLSSocket(...)` to establish a secure connection? · Issue #43994 · nodejs/node · GitHub	github.com text/html	MISC github.com/nodejs/node/issues/43994
First attempt at test for GHSA-2cpx-6pqp-wf35 · typelevel/fs2@6598243 · GitHub	github.com text/html	MISC github.com/typelevel/fs2/commit/659824395826a314e0a4331535dbf1ef8bef8207

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Typelevel	Fs2	All	All	All	All

cpe:2.3:a:typelevel:fs2:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-31183 : fs2 is a compositional, streaming I/O library for Scala. When establishing a server-mode `TLSSocke… twitter.com/i/web/status/1…	2022-08-01 19:56:15
@Robo_Alerts	Potentially Critical CVE Detected! CVE-2022-31183 fs2 is a compositional, streaming I/O library for Scala. When est… twitter.com/i/web/status/1…	2022-08-01 21:56:00
@LinInfoSec	Nodejs - CVE-2022-31183: github.com/typelevel/fs2/…	2022-08-01 23:01:41
/r/netcve	CVE-2022-31183	2022-08-01 20:38:20

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