

Denial of Service (DoS)

Affecting `libpq` package, versions <1.8.10

INTRODUCED: 3 FEB 2022 CVE-2022-25852 ?

CWE-400 ?

FIRST ADDED BY SNYK

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How to fix?

Upgrade `libpq` to version 1.8.10 or higher.

Overview

`libpq` is a node native bindings to the PostgreSQL `libpq` C client library.

Affected versions of this package are vulnerable to Denial of Service (DoS) when the addons attempt to cast the second argument to an array and fail. This happens for every non-array argument passed.

Note: `pg-native` is a mere binding to npm's `libpq` library, which in turn has the addons and bindings to the actual C `libpq` library. This means that problems found in `libpq` may transitively impact npm's `pg-native`.

PoC

```
//pg-native -> poc.js
let Client = require('pg-native')
let client = new Client()
client.connectSync()
client.query('some str', 1, function() {});
//libpq -> poc.js
var Libpq = require('libpq')
const pq = new Libpq()
pq.sendQueryParams("some str", 1)
```



Snyk CVSS

Exploit Maturity Proof of concept ?

Attack Complexity Low ?

Availability HIGH ?

[See more](#)

> NVD

7.5 HIGH

Do your applications use this vulnerable package?

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in your application, and suggest you quick fixes.

Details

Denial of Service (DoS) describes a family of attacks, all aimed at making a system inaccessible to its intended and legitimate users.

Unlike other vulnerabilities, DoS attacks usually do not aim at breaching security. Rather, they are focused on making websites and services unavailable to genuine users resulting in downtime.

One popular Denial of Service vulnerability is DDoS (a Distributed Denial of Service), an attack that attempts to clog network pipes to the system by generating a large volume of traffic from many machines.

When it comes to open source libraries, DoS vulnerabilities allow attackers to trigger such a crash or crippling of the service by using a flaw either in the application code or from the use of open source libraries.

Two common types of DoS vulnerabilities:

- High CPU/Memory Consumption- An attacker sending crafted requests that could cause the system to take a disproportionate amount of time to process. For example, [commons-fileupload:commons-fileupload](#).
- Crash - An attacker sending crafted requests that could cause the system to crash. For Example, [npm ws package](#)

References

- [Github Issues](#)
- [Github PR](#)

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Learn about Denial of Service (DoS) vulnerabilities in an interactive lesson.

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Snyk **SNYK-JS-LIBPQ-ID 2392366**

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