

🔍 Search by package n

Path Traversal

Affecting pistacheio/pistache package, versions [0.0.3.20220425)

INTRODUCED: 1 MAY 2022 [CVE-2022-26068](#) ?
[CWE-22](#) ?

Share ▼

How to fix?

Upgrade `pistacheio/pistache` to version 0.0.3.20220425 or higher.

Overview

`pistacheio/pistache` is a modern and elegant HTTP and REST framework for C++.

Affected versions of this package are vulnerable to Path Traversal. It is possible to traverse directories to fetch arbitrary files from the server.

PoC by Snyk

```
curl --path-as-is
"http://localhost:9080/doc/../../../../../../../../../../../../etc/passwd"
```

Details

A Directory Traversal attack (also known as path traversal) aims to access files and directories that are stored outside the intended folder.

6.5

MEDIUM

Snyk CVSS

Exploit Maturity

Proof of concept ?

Attack Complexity Low ?

Confidentiality

HIGH

?

See more

> NVD

7.5 HIGH

Do your applications use this vulnerable package?

In a few clicks we can analyze your entire application and see what components are vulnerable in your application, and suggest you quick fixes

By manipulating files with "dot-dot-slash (../)" sequences and its variations, or by using absolute file paths, it may be possible to access arbitrary files and directories stored on file system, including application source code, configuration, and other critical system files.

Directory Traversal vulnerabilities can be generally divided into two types:

- **Information Disclosure:** Allows the attacker to gain information about the folder structure or read the contents of sensitive files on the system.

`st` is a module for serving static files on web pages, and contains a [vulnerability of this type](#). In our example, we will serve files from the `public` route.

If an attacker requests the following URL from our server, it will in turn leak the sensitive private key of the root user.

```
curl
http://localhost:8080/public/%2e%2e/%2e%2e/%2e%2e/%2e%2e/%2e%2e/%2e%2e/root/.ssh/id_rsa
```

Note `%2e` is the URL encoded version of `.` (dot).

- **Writing arbitrary files:** Allows the attacker to create or replace existing files. This type of vulnerability is also known as `Zip-Slip`.

One way to achieve this is by using a malicious `zip` archive that holds path traversal filenames. When each filename in the `zip` archive gets concatenated to the target extraction folder, without validation, the final path ends up outside of the target folder. If an executable or a configuration file is overwritten with a file containing malicious code, the problem can turn into an arbitrary code execution issue quite easily.

The following is an example of a `zip` archive with one benign file and one malicious file. Extracting the malicious file will result in traversing out of the target folder, ending up in `/root/.ssh/` overwriting the `authorized_keys` file:

```
2018-04-15 22:04:29 ..... 19 19 good.txt 2018-04-15
22:04:42 ..... 20 20
../../../../../../../../root/.ssh/authorized_keys
```

References

- [GitHub Fix PR](#)

Suggest your quick fixes.

Test your applications

SnykSNYK-UNMANAGED-ID PISTACHEIOPISTACHE-2806332

Published 1 May 2022

Disclosed 1 May 2022

Credit Snyk Security Team

Report a new vulnerability

Found a mistake?

PRODUCT

[Snyk Open Source](#)

[Snyk Code](#)

[Snyk Container](#)

[Snyk Infrastructure as Code](#)

[Test with Github](#)

[Test with CLI](#)

RESOURCES

[Vulnerability DB](#)

[Documentation](#)

[Disclosed Vulnerabilities](#)

[Blog](#)

[FAQs](#)

COMPANY

[About](#)

[Jobs](#)

[Contact](#)

[Policies](#)

[Do Not Sell My Personal Information](#)

CONTACT US

[Support](#)

[Report a new vuln](#)

[Press Kit](#)

[Events](#)

FIND US ONLINE

TRACK OUR DEVELOPMENT



Join the >>
community

© 2022 Snyk Limited

Registered in England and Wales. Company number: 09677925

Registered address: Highlands House, Basingstoke Road, Spencers Wood, Reading, Berkshire, RG7 1NT.