



Markdownify 1.4.1 – Local File Read

Summary

Name

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State

Public

Release date

2022-10-18

Vulnerability

Kind	Insecure or unset HTTP headers - Content-Security-Policy
Rule	<u>043. Insecure or unset HTTP headers - Content-Security-Policy</u>
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



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arbitrary local files on any client that attempts to view a malicious markdown file through Markdownify. 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.

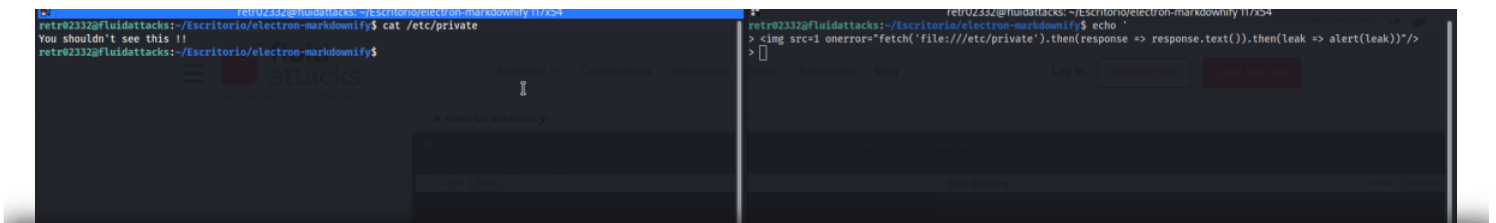
Exploitation

To exploit this vulnerability, you must send the following file to a user to open with Markdownify.

exploit.md

```
 data.te
```

Evidence of exploitation



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Our security policy

We have reserved the CVE-2022-41710 to refer to this issue from now on.

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

System Information

- Version: Markdownify 1.4.1

- 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.

References

Vendor page <https://github.com/amitmerchant1990/electron-markdownify>

Timeline



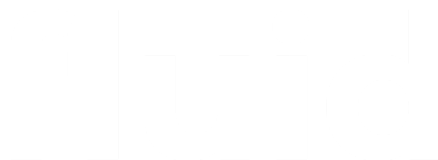
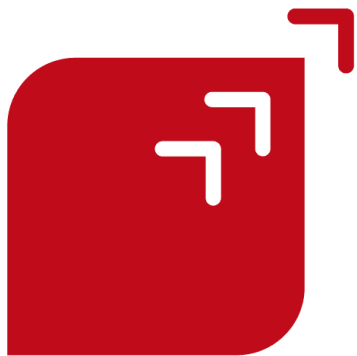
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- ✓ 2022-09-28
Vendor replied acknowledging the report.
- ✓ 2022-10-18
Public Disclosure.



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