



CVE-2021-21254

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064_img.jpg\)](#)

Summary

CVE	CVE-2021-21254
State	PUBLIC
Assigner	security-advisories@github.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2021-01-29 22:15:00 UTC
Updated	2023-11-07 03:29:00 UTC
Description	CKEditor 5 is an open source rich text editor framework with a modular architecture. The CKEditor 5 Markdown plugin (@ckeditor/ckeditor5-markdown-gfm) is a rich text editor plugin that allows users to write and edit content in Markdown format. This plugin is vulnerable to a Denial of Service (DoS) attack due to a regular expression Denial of Service (ReDoS) in the Markdown plugin. An attacker can exploit this vulnerability by sending a specially crafted request to the server, which will cause the server to crash or become unresponsive. The vulnerability is located in the Markdown plugin and affects all versions of the plugin. The vulnerability is caused by a regular expression that is used to parse Markdown content. The regular expression is not optimized and can be exploited by sending a request with a large number of backslashes. This causes the regular expression engine to enter a state of infinite recursion, which eventually leads to a stack overflow and a crash of the server. The vulnerability is fixed in version 5.0.0 of the plugin. Users are advised to update to the latest version of the plugin as soon as possible to avoid this vulnerability.

Risk And Classification

Problem Types: CWE-400

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Ckeditor	Ckeditor5	All	All	All	All
Application	Ckeditor	Ckeditor 5	All	All	All	All
Application	Ckeditor	Ckeditor 5	All	All	All	All

References

Reference	Source	Link	Tags
@ckeditor/ckeditor5-markdown-gfm - npm	MISC	www.npmjs.com	Release M
Regular expression Denial of Service in Markdown plugin · Advisory · ckeditor/ckeditor5 · GitHub	CONFIRM	github.com	Third Part
@ckeditor/ckeditor5-markdown-gfm - npm		www.npmjs.com	
Release v25.0.0 · ckeditor/ckeditor5 · GitHub	MISC	github.com	Release M
CVE Program record	CVE.ORG	www.cve.org	canonical
NVD vulnerability detail	NVD	nvd.nist.gov	canonical

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[982962](#) Nodejs (npm) Security Update for @ckeditor/ckeditor5-markdown-gfm (GHSA-hgmg-hhc8-g5wr)

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