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GOOGLE PATCHES 2ND ZERO-DAY VULNERABILITY

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IMPACT	LOW	MEDIUM	HIGH
EASE OF EXPLOIT	HARD	MEDIUM	EASY

OVERVIEW

Google has added emergency security patches to its recent security advisory to address multiple vulnerabilities in its browser. The most severe is an actively exploited zero-day vulnerability that affects the 2D Graphics Library of the Chrome web browser.

BREAKDOWN

A security researcher from Google's Threat Analysis Group (TAG) discovered a high-severity zero-day flaw in Skia, an open-source 2D Graphics Library. Skia provides Chrome with a set of APIs for rendering graphics, text, shapes, images, and animations, and it is considered a vital component of the browser's rendering pipeline. The vulnerability tracked as CVE-2023-2135 is an integer overflow flaw which could lead to memory corruption, incorrect rendering, and arbitrary code execution. This could allow an unauthenticated user to gain access to the system. Last Friday, Google released another emergency Chrome update to fix CVE-2023-2033, the first actively exploited vulnerability in the browser discovered in 2023.

REMEDIATION STEPS

- Upgrade to version 112.0.5615.137/138 for Windows, 112.0.5615.137 for macOS, and 112.0.5615.165 for Linux to mitigate potential threat.
- Implement an Automated Patch Management Cycle to perform third-party application updates and regularly report on success and other statistics.
- Network monitoring and analysis should be conducted regularly to detect and investigate anomalous network behaviour.
- Restrict user abilities to download and use unapproved web browser applications and extensions.
- Practice the Principle of Least Privilege in all systems and applications.

REFERENCES & RESOURCES

CIS Advisories https://www.cisecurity.org/advisory/multiple-vulnerabilities-in-google-chrome-could-allow-for-arbitrary-code-execution_2023-043

The Hacker News https://thehackernews.com/2023/04/google-chrome-hit-by-second-zero-day.html