

OWASP Top 10 - A06:2021 Vulnerable and Outdated Components

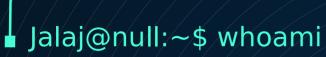
Presented By- Sanchay & Jalaj null-meet Delhi @ Airtel Centre, Gurugram 25 February 2023

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- With over 4-5 years of Practical experience in the field, I have good knowledge of Bug Hunting and PenTesting, especially System Hacking.
- Co-Founder of HackersVilla CyberSecurity Pvt Ltd, a security community and B2B VAPT Services Platform.

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- Cyber Security Geek
- CTF Player
- Security Analyst
- Wears the Blue cape
- Threat Hunting





Structure of Presentation

- 1. Introduction
- 2. What are Vulnerable and Outdated Components?
- 3. Why are Vulnerable and Outdated Components a Problem?
- 4. How to Identify and Mitigate Vulnerable and Outdated Components
- 5. Case Studies and Examples
- 6. Conclusion



A06:2021 - Vulnerable and Outdated Components



It was #2 from the Top 10 community survey but also had enough data to make the Top 10 via data. Vulnerable Components are a known issue that we struggle to test and assess risk and is the only category to not have any Common Vulnerability and Exposures (CVEs) mapped to the included CWEs, so a default exploits/impact weight of 5.0 is used. Notable CWEs included are CWE-1104: Use of Unmaintained Third-Party Components and the two CWEs from Top 10 2013 and 2017.

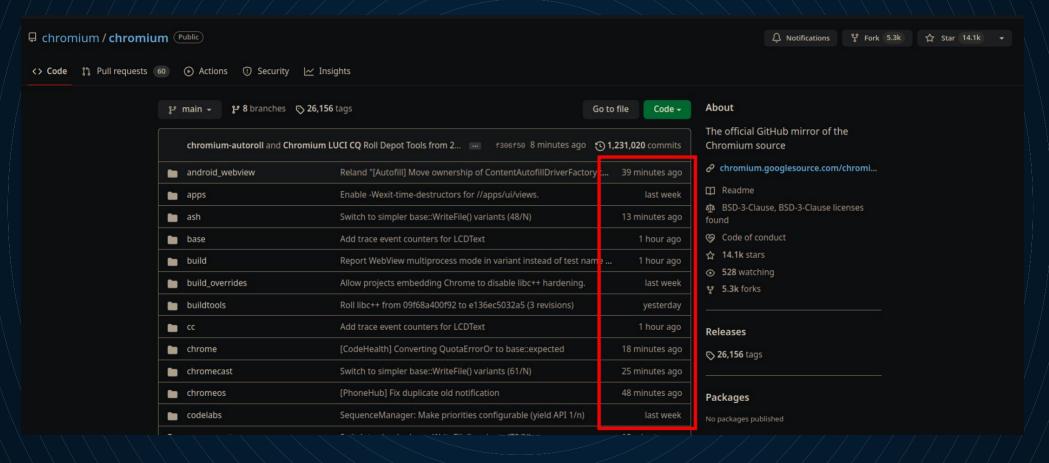
Mapped Common Weekness Enumeration (CWE's)

- CWE-937 OWASP Top 10 2013: Using Components with Known Vulnerabilities
- CWE-1035 2017 Top 10 A9: Using Components with Known Vulnerabilities
- CWE-1104 Use of Unmaintained Third Party Components

What Components are we talking about in A06?

- Libraries, Ex- Jquery, AngularJS, Bootstrao, etc.
- Frameworks, Ex- Django, Flask, Ruby on Rails, etc.
- Modules, Ex SSL, pip, urllib, etc.

What makes a component vulnerable or outdated?



Why vulnerable components a problem?

 $F \quad \text{https://www.forbes.com} \Rightarrow \text{sites} \Rightarrow \text{gordonkelly} \Rightarrow 2022 \Rightarrow 08 \Rightarrow 31 \Rightarrow \text{google-chrome-105-new-vulnera...}$

Google Chrome 105 Released To Patch 24 New Vulnerabilities

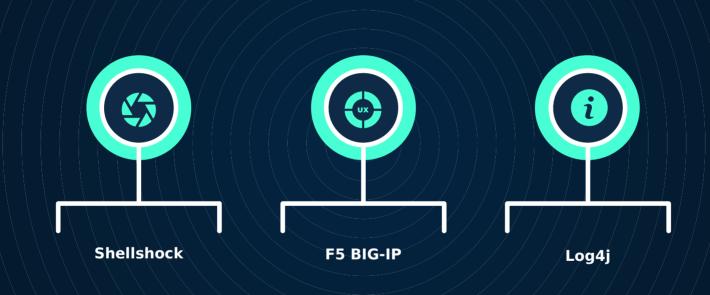
31 Aug 2022 · Multiple new high-level threats have been found in Google Chrome. LIGHTROCKET VIA GETTY IMAGES. This is a list of the nine most serious new Chrome vulnerabilities: Critical - CVE-2022-3038: Use ...

thttps://www.tomsguide.com > news > chrome-91-update-2

Google Chrome zero-day flaw under attack — what to do now

10 Jun 2021 · Chrome in-the-wild **vulnerability** CVE-2021-30551 patched today was also from the same actor and targeting. Thanks to ... Here's a list of the most **recent** Chrome/**Chromium** updates. June 9: 91.0.4472 ...

Why vulnerable components a problem?



How to Identify and Mitigate Vulnerable and Outdated Components

- 1. Remove unused dependencies, unnecessary features, components, files, and documentation.
- 2. Continuously inventory the versions of both client-side and server-side components (e.g., frameworks, libraries) and their dependencies using tools like versions, OWASP Dependency
- 3. Subscribe to email alerts for security vulnerabilities related to components you use.
- 4. Only obtain components from official sources over secure links.
- 5. Monitor for libraries and components that are unmaintained or do not create security patches for older versions.

