

Tinfoil Web Scanner and API Scanner

API and website security for developers and DevOps teams

Real-time security reports pushed directly into your developers' workflow

Overview

The Tinfoil dynamic security offerings provide security tools built by developers, for developers. Tinfoil API Scanner and Tinfoil Web Scanner allows seamless integration with DevOps continuous integration/continuous delivery (CI/CD) process. Tinfoil also provides an open and extensive API that you can use to create integrations and automations with any third-party tool. Implementing Tinfoil products into your DevOps process can help you produce secure code faster, saving you time and money—and freeing up security engineers to focus on more strategic initiatives. Tinfoil technology empowers your developers and DevOps teams to become the critical first line of defense, so security teams can prioritize and enhance their strategic security initiatives.

Built for modern, agile development

These offerings include access to tools that help integrate security into your application life cycle based on your team's objectives. Tinfoil solutions can scan applications that were created using agile development methods or DevOps CI/CD methods, as well as internal applications not exposed to the internet, via the secure reverse tunnel* or by using an internal fully managed virtual appliance.

Tinfoil integrations include an easy-to-use RESTful API that hooks the scanner into your current security or CI systems, including a native plugin for Jenkins. With results tailored to your stack and seamless integrations with Jira and other issue trackers, developers are empowered to fix vulnerabilities before they are deployed. To make the vulnerability fixing process even simpler, Tinfoil scanners also provide single-click replay attacks and single-click rescans.* Developers can see the exploit live and know within minutes whether they've fixed it, rather than waiting hours for a full new scan.



Faster security

We make it easy for developers to secure your application in real time as they build it out, significantly reducing your exposure to cyber security threats.



Seamless integration

Our API allows you to incorporate security into your DevOps life cycle quickly and easily.



Digestible data

We provide your team with clean technical information so they can easily find each vulnerability and fix it quickly.

Tinfoil API Scanner

The Tinfoil API Scanner detects vulnerabilities in any RESTful API, commonly used in today's modern web-based applications and sites, including mobile and IoT-connected apps. Tinfoil API Scanner also supports GraphQL APIs, scanning for GraphQL-specific vulnerabilities. Few tools cover API security in as much depth as the Tinfoil API Scanner; it provides specific focus on the context of API authentication and more. Unlike other tools that serve more as a defensive protection mechanism, the Tinfoil API Scanner allows you to perform proactive and intelligent fuzzing of your APIs.

It also makes it trivial to replay attacks by providing a cURL command that replays the precise request that exploited the vulnerability, including any signatures or required authentication that needed to be in place.

Vulnerabilities focused on authorization and access control concerns, or even web-like vulnerabilities like XSS, manifest in different ways and with different exploitation vectors than they do for web applications. The security concerns of an API are fundamentally different from those for web applications. The Tinfoil API Scanner was built from the ground up to focus on APIs specifically—it's not a web application scanner jury-rigged to handle APIs.

Tinfoil Web Scanner

The Tinfoil Web Scanner checks for over 70 classifications of vulnerabilities, including the OWASP Top 10. The Tinfoil Web Scanner analyzes all facets of your site, logging into any website, including SAML/SSO-authenticated sites. Tinfoil's patent-pending Login Recorder (available as a Google Chrome extension) allows you to teach the Tinfoil Web Scanner how to authenticate into your site by recording your unique login sequence.

The solution makes it trivial to replay attacks by providing single-click replays for the precise request that exploited the vulnerability, and single-click rescans to verify a fix. And it provides how-to fix instructions, complete with code snippets tailored to the language you wrote your application in.

We regularly incorporate new tests and consistently score higher than any other scanner on open source benchmarks.

*Available with Tinfoil Web Scanner only

The Synopsys difference

Synopsys helps development teams build secure, high-quality software, minimizing risks while maximizing speed and productivity. Synopsys, a recognized leader in application security, provides static analysis, software composition analysis, and dynamic analysis solutions that enable teams to quickly find and fix vulnerabilities and defects in proprietary code, open source components, and application behavior.

For more information about the Synopsys Software Integrity Group, visit us online at www.synopsys.com/software.

Synopsys, Inc.
185 Berry Street, Suite 6500
San Francisco, CA 94107 USA

U.S. Sales: 800.873.8193
International Sales: +1 415.321.5237
Email: sig-info@synopsys.com

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