F5 Distributed Cloud Web App Scanning

Automate security reconnaissance and penetration testing for web apps and APIs and receive actionable guidance to swiftly remediate problems.

Running manual penetration tests on large, distributed app portfolios is impractical and costly.

Change is constant for applications today in the dynamic world of digital transformation. Organizations continue to modernize legacy apps and embrace new development paradigms. Emerging apps harness microservices-based architectures, becoming more distributed and undergoing frequent updates to meet the rising demands of app usage, to deliver improved performance, and to drive competitive innovation.

Navigating this complex ecosystem can tax organizations as they seek to maintain consistent visibility, control, and security, just as development models and app architectures further evolve to include multi-cloud and hybrid deployments. The proliferation of APIs and expansion of workloads beyond the cloud to the branches or customer edges accentuate the need for swift data access and critical telemetry.

Amid this shifting landscape, the task of identifying and managing threats and risks is more complex than ever. Finding and managing vulnerabilities is a full-time, arduous job, not meant to be done manually. Continuously conducting manual penetration tests on large, distributed app portfolios is impractical because of its devouring of resources and money.

The Benefits of Automated Reconnaissance and Penetration Testing for Exposing Web App and API Vulnerabilities

Organizations must be able to seamlessly and continuously scan their entire application portfolio to reveal all exposed application and API services—and test these services for vulnerabilities and data exposure risks.

With F5® Distributed Cloud Web App Scanning, this daunting task becomes extremely manageable. Distributed Cloud Web App Scanning automates the scanning of the Internet, public source repositories, exposed servers, and other sources to provide a comprehensive overview of an organization's external-facing app ecosystem often susceptible to risks. After identifying exposed data and potential vulnerabilities, the F5 solution helps maintain an enhanced security posture and provides remediation guidance for immediate follow-up.

Distributed Cloud Web App Scanning continuously scans your external-facing app ecosystem, uncovering vulnerabilities while providing remediation guidance.

EXTERNAL ATTACK SURFACE MANAGEMENT

Gain a panoramic view of your organization's external attack surface. Distributed Cloud Web App Scanning automatically scans your domain(s) to find apps and APIs exposed online. It captures server versions, operating systems, and hosting providers across your domain(s) and pinpoints web servers compromised by known vulnerabilities (CVEs). Additionally, it offers the capability to virtually patch vulnerabilities using the Web App and API Protection (WAAP) features included in F5 Distributed Cloud Services.
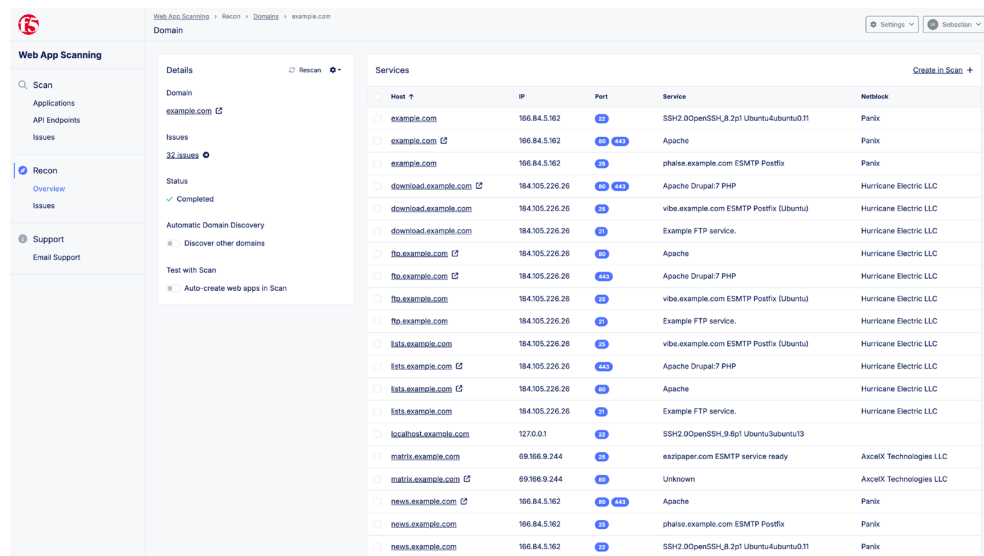

Figure 1: Gain a clear view of your web app's external threat surface and all open vulnerabilities so corrective actions can be taken quickly.

DYNAMIC APPLICATION SECURITY TESTING

Run automated tests against your organization's web apps and APIs. Distributed Cloud Web App Scanning enables you to quickly and easily uncover vulnerabilities and determine how to safeguard your apps and APIs from cyberthreats. Assess whether your apps are exposed to any of the risks outlined by the OWASP Top 10, complete with in-depth—yet simple to understand—insights to help you mitigate threats.

Embracing Distributed Cloud Web App Scanning mobilizes organizations with a proactive approach to navigating the ever-changing threat landscape.

Key Features

Comprehensive web app and API scanning

Crawls your domain(s), compiling a complete inventory of apps, APIs, services, exposed servers, known vulnerabilities, and potential leaked credentials.

Automated dynamic penetration testing

Automatically conducts thorough tests across your web apps and APIs to uncover vulnerabilities, providing transparent results with visual evidence such as videos and screenshots of exploits.

Detailed transparent reporting

Delivers detailed, transparent reporting with full context, featuring screenshots, recordings, and technical details, available for online viewing or as PDF for trouble-free compliance tracking.

Continuous monitoring and scanning

Easily sets up scheduled scans and tests—daily, weekly, or monthly— to consistently monitor your app environment, with notifications delivered through preferred communications channels.

Seamless integration with Ops/IT and DevOps tools

Supports various workflows with seamless integration into operations and CI/CD pipelines, including task tracking tools to boost visibility and accelerate update and remediation processes.
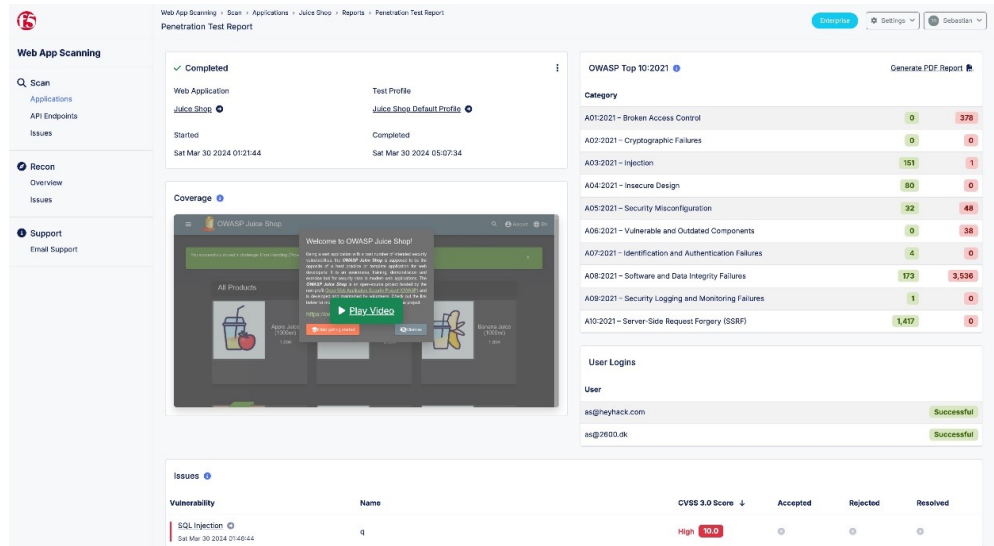

Figure 2: Set up a test in just a couple of clicks to quickly uncover vulnerabilities, such as risks outlined by the OWASP Top 10, and learn how to safeguard your apps and APIs from attack.

Distributed Web App Scanning is a cornerstone for web app and API security. It bridges the security gaps often left by infrequent pen testing cycles, delivering continuous visibility and actionable insights that empower organizations to fortify security and maintain compliance with critical standards as their app ecosystems continue to evolve.

Conclusion

As organizations increasingly leverage applications and APIs to drive innovation, they also face a wider array of security threats as dynamic as today's enterprise environments. Distributed Cloud Web App Scanning mobilizes organizations with a proactive approach to navigating this ever-changing threat landscape.

Distributed Cloud Web App Scanning provides effortless and continuous identification of all apps and APIs across an organization's digital domains. Featuring one of the industry's most intuitive and comprehensive web app scanners, it automates the scanning process, generating deep and insightful analysis of potential vulnerabilities. By minimizing the attack surface and bolstering the security of sensitive data within app and APIs, Distributed Cloud Web App Scanning ensures a robust defense against cyberthreats, safeguarding your digital assets while maintaining the integrity of your business.

To learn more, contact your F5 representative or visit f5.com/cloud/ products/web-app-scanning.