NowSecure Platform

## Purpose-Built Mobile App Testing Solution to Improve Security, Privacy and Quality

The NowSecure Platform centralizes and streamlines modern mobile app security and privacy testing within one, easy-to-use solution. Purpose-built for security automation in mobile DevSecOps, NowSecure Platform provides fully automated static, dynamic, interactive and API security testing in one fast assessment. This can be integrated directly within the mobile software development life cycle (SDLC) to run autonomously in the background, eliminating friction and driving faster feedback loops. The solution is customizable and flexible, empowering mobile app Security and Development teams to:

- Scale security by executing rapid automated static, dynamic, interactive and APIsec analysis of Android (.apk/aab) and iOS (.ipa) binaries on real devices, completing full-coverage assessments in minutes.

- Test complex apps by leveraging NowSecure analysts via NowSecure Platform Guided Testing to test through anti-automation features like Captcha and Multi-Factor Authentication while navigating key mobile app workflows to ensure complete app coverage.

> Dev said they wanted 10 mins or less, accurate results, no false positives, and complete automation. By meeting these requirements with NowSecure, we now have visibility and are fully automated into every build.
>
> Director, App Security
> *Fortune 100 Financial Services Company*

- Maximize visibility and efficiency across teams and workflows, with multiple ways to upload binaries and publish test results to keep everyone on the same page and surface info within the tools they know best, optimizing for fast feedback loops by providing developers with prioritized tickets and security with issues to review.

- Drive further team alignment and prioritization with pre-built and customized policies based on industry standards and relevant compliance requirements with NowSecure Platform Policy Engine.
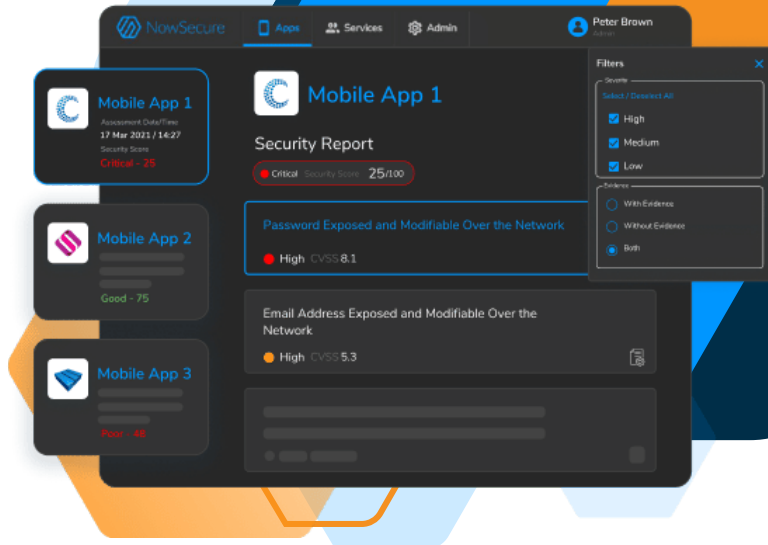
- Connect directly to NowSecure mobile app security and privacy experts who can answer questions and provide expert Pen Testing as a Service when needed.

NowSecure Platform Solution Highlights

- Pre-Prod and/or Published iOS & Android Binaries Testing
- Test Any Mobile App Regardless of Language or Framework
- Identify and Manage Supply-Chain Risk for Mobile Apps Used
- All-in-one SAST+DAST+IAST+API Security Testing
- The Most Comprehensive Database of Mobile Security and Privacy Issues
- Focus on Critical Findings with Customized Policy-Driven Prioritization
- Real Mobile Devices Testing for Authentic Results
- Guided Testing for CAPTCHA, MFA and Coverage
- CVSS-Standards-Based Security Score for Prioritization
- Native Integrations to Popular Dev Tools with REST API and CLI support
- Embedded Remediation Guides with code samples and links to iOS/Android developer documentation for Easy Fixing
- Compliance Mapping and Reporting
- Enterprise-Ready Features like Role-Based Access Controls and audit logs
- Near Zero False Positives
- Monitoring & Alerting Options
- Expert Professional Services and Support
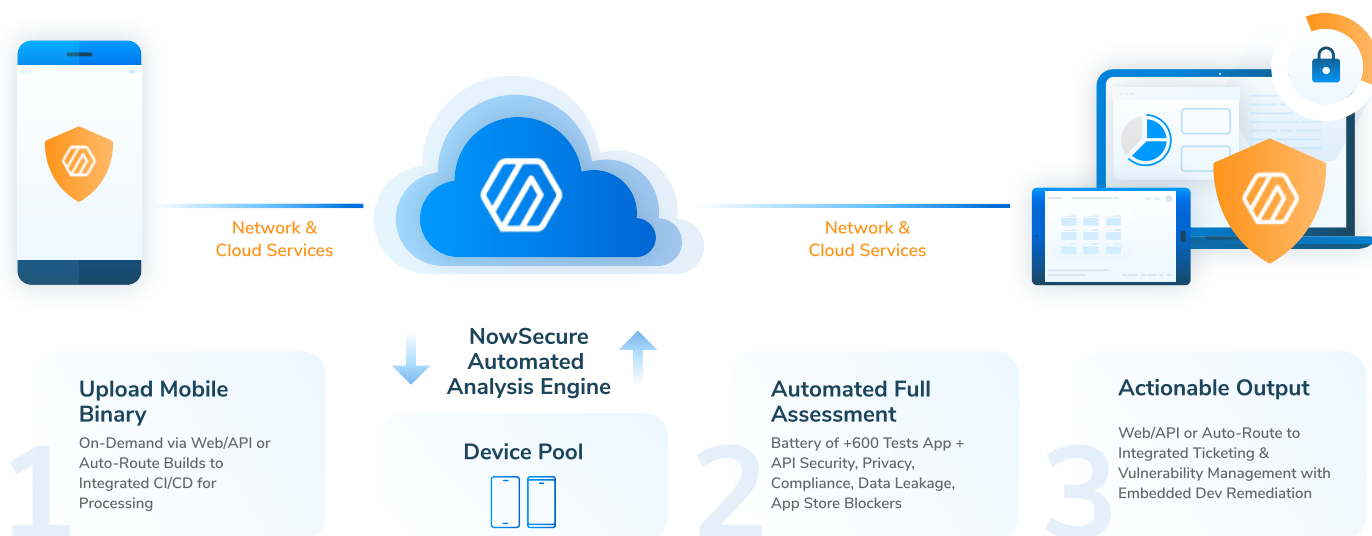- SOC 2 Type 2 Certified

How it Works

No source code is required to get started—simply upload a compiled mobile binary from your development team via web, API or CI/CD Plugin or download a binary from the Google Play™ or Apple® App Store®. Once the .ipa or .apk/.aab is loaded, leverage the built-in advanced configuration to add test credentials, search terms, and then run the

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fully automated SAST+DAST+IAST+API analysis. In addition to the fully automated solution, NowSecure offers a Guided Testing option to request an expert analyst to operate your app during Platform Analysis. This way, you can further increase the depth of analysis by overriding anti-automation features such as Captcha and Multi-Factor Authentication and traversing complex workflows within an application. Automated NowSecure Platform assessments complete quickly to fit the speed needs of Agile and DevSecOps pipelines, Throughout the implementation process, NowSecure Services and Support are fully engaged, providing standard

Testing Methodology

The NowSecure Platform is powered by the proprietary, automated NowSecure Analysis Engine and the world's most comprehensive database of mobile security and privacy vulnerabilities. Our leading-edge technology leverages best-of-breed tools from the open source community and proprietary solutions developed by the NowSecure Research team. NowSecure Research includes elite mobile app security

Upload Mobile Binary

On-Demand via Web/API or Auto-Route Builds to Integrated CI/CD for Processing

1

NowSecure Automated Analysis Engine

Device Pool

Automated Full Assessment

Battery of +600 Tests App + API Security, Privacy, Compliance, Data Leakage, App Store Blockers

2

Actionable Output

Web/API or Auto-Route to Integrated Ticketing & Vulnerability Management with Embedded Dev Remediation

3

Network & Cloud Services

Network & Cloud Services

configuration, training, integration consultation, and technical support to ensure successful deployment. NowSecure has built up more than a decade of mobile app security expertise, and our Support team is here to help you build a productive and successful mobile AppSec program.

The NowSecure Platform ensures cross-team visibility, including role-based access controls which allow admins to grant individual user privileges across dev, security, risk, compliance, and management, a full audit log to understand how teams are utilizing NowSecure Platform, and customizable alerts to notify teams of test status and if new vulnerabilities are present. Additionally, NowSecure has included several native out-of-the-box integrations into popular CI/CD pipeline tools (e.g., Cloudbees Jenkins, Microsoft Azure DevOps, Bitrise, Xcode Server, GitHub, GitLab, CircleCI, issue tracking systems (e.g., Jira), and vuln management (e.g., Coalfire Treadfix, Brinqa). In addition, NowSecure provides REST API access with GraphQL and CLI support. This integrated approach means developers and security teams can work within their existing tools and workflows, and don't need to wait to deploy or learn how to use new tools. With integrated tooling delivering faster feedback loops and built in prioritization that focuses on fixing what matters most first, teams can write higher quality code and scale efficiency and productivity, building a stronger DevSecOps practice while reducing costs.

experts, such as the creators of open-source tools like Frida, a dynamic instrumentation toolkit, and Radare, a reversing framework — both popular globally and included in almost any mobile app security professional's pen testing toolbox. The Research team also includes a co-leader of the OWASP MAS Project to help NowSecure deliver standards-based testing automation.

A key differentiator of the NowSecure Analysis Engine is the unique combination of automated DAST+IAST for full testing on real mobile devices, not emulators. Dynamic Application Security Testing (DAST) instrumentation hooks at the mobile OS kernel level to drive external attack scenarios and analyze how an app interacts with the device, network and backend APIs from the "outside in." Interactive Security Testing (IAST) instruments an app from the "inside out" to inspect the app, data and control flows. Leveraging the dynamic testing process, API Security testing discovers and generates a list of all mobile-connected APIs, warns for any mobile-connected APIs that may violate OWASP API Top 10 with recommendations for further action, and identifies shadow un-approved APIs in use. This integrated DAST+IAST+API approach enables the NowSecure Platform to exercise the mobile app the exact same way an attacker would, navigating the mobile attack surface to pinpoint and validate vulnerabilities. The depth of this attacker point-of-view approach results

in full coverage of the mobile attack surface with near zero false positives.

Given what cannot be measured nor managed, NowSecure Platform also provides an aggregate Security Score with every assessment to aid in setting a risk baseline and so improvement can be tracked over time. Each individual vulnerability is measured using CVSS, a universal, open and industry standard method for rating risk and security vulnerabilities.

Robust Results

NowSecure Platform assessment results may be exported to PDF and/or pushed via API integration into issue ticketing systems, like Atlassian Jira, GitHub, Azure DevOps Boards, GitLab Boards, or third-party vulnerability dashboards, like Coalfire Threadfix and Brinqa. Assessments are richly formatted and customizable, including:

- Single unique CVSS-based risk score to instantly identify and track risk of the mobile app for each test.

- Descriptions of the issues, and standards-based CVSS severity rating, with options to edit or hide findings and add notes as needed.

- Full record of screenshots of the mobile app, taken by the NowSecure Analysis Engine during the automated assessment.

- Developer remediation instructions for each identified issue, including code explanations, applicable code samples, and links to iOS/Android developer

documentation as well as Apple App Store™/Google Play™ submission blockers.

- Regulatory compliance for each finding mapped to applicable compliance regime and testing standard including PCI, CVE, CWE, NIAP, GDPR, FFIEC, FISMA, HIPAA, and OWASP MASVS, and OWASP API Top 10 with direct links for further information.

- Key informational elements that may not be vulnerabilities such as all IP all IP Addresses, API endpoints, third party libraries & components.

- Relevant artifacts like automation info, hardcoded urls, wand file listings.

- All testing data available via Restful API, JSON, GraphQL, and CLI for integration into other systems as needed.
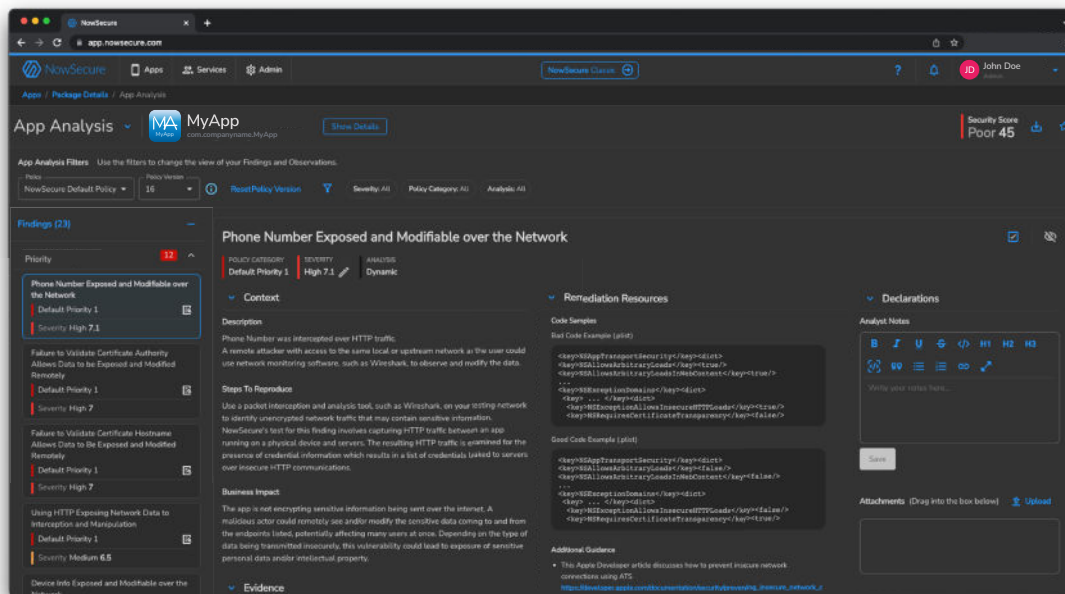
NowSecure Platform includes aggregate, findings-level, and app-level dashboards which provide an executive understanding of the mobile app portfolio health and enable visibility into trends over time.

Standardize. Scale. Accelerate.

NowSecure Platform is tailored to meet the unique needs of modern mobile SDLC programs, providing mobile app security and privacy solutions that are continuous, customizable, accurate, and keep up with development pace. Mobile security automation enables the business to meet rapidly evolving mobile business needs while helping build bridges across teams accountable for the success of mobile development, security, and compliance programs. NowSecure Platform provides organizations the ability to rapidly deploy and scale repeatable mobile app security programs with fast feedback loops that deliver measurable results of delivering high quality releases faster.

NowSecure®