NowSecure™

Effortless Integrations

NowSecure Platform Drives Developer-First Mobile DevSecOps

Power Mobile DevSecOps Success

Incorporating automated mobile application security testing into the dev pipeline empowers developers to quickly find and fix security bugs early in the development process. Shifting left in the software development lifecycle (SDLC) enables mobile app development organizations to release on time with security and the required functionality built in.

Devs choose the best tools to drive their productivity, so mobile application security testing tools must seamlessly integrate with those tools and workflows. Consequently, devs are justifiably wary of legacy AppSec tools that create friction. Traditional testing approaches and tools have several drawbacks that impede velocity:

- While still a best practice, traditional manual pen testing tends to take too long, happen too late and hold up releases.

- Traditional static source code testing tools generate too many false positives for devs to chase down, wasting time and causing frustration.

- Traditional web testing tools not purpose-built for mobile apps often lack the required mobile language and framework support, fail to test critical pieces of the mobile app and don't integrate with mobile build tools.

- Current automated testing tools clog the CI/CD pipeline thanks to complex configuration, time-consuming tuning, inefficient workflows and slow testing times.

- Security issue tickets typically lack contextual information, remediation instructions and code examples so remediation takes too long.

There's a better way to ship early, ship often and ship securely. Taking a unified, standards-based approach to mobile AppSec improves team alignment and collaboration. Building automated security policy, testing and remediation into the DevOps pipeline helps security, developers, architects, quality assurance, global risk and compliance, and mobile center of excellence teams get high-quality, secure mobile apps to market far more efficiently than legacy methods.

With more than a dozen years of mobile experience, NowSecure has partnered with hundreds of organizations to accelerate the delivery of secure mobile apps. The NowSecure Platform automated mobile application security testing solution integrates directly into the dev pipeline and runs autonomously in the background to increase efficiency in several ways:

- Conduct fast, reliable and accurate mobile AppSec assessments at scale

- Implement, automate and enforce standard policies tailored to specific industry and security needs via NowSecure Policy Engine

- Provide embedded remediation assistance to enable devs to quickly fix security issues

- Offer fast feedback loops to drive continuous improvement

- Deliver self-paced online courses and certification for teams to upskill their mobile security practices

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Built-In Integrations Enable Dev Efficiency

According to a recent IDC survey, development and security leaders view ease of deployment, speed and vulnerability prioritization as the most important capabilities of a DevSecOps tool. In addition, nearly 70% say developer acceptance of security tooling is a key factor in DevSecOps adoption.
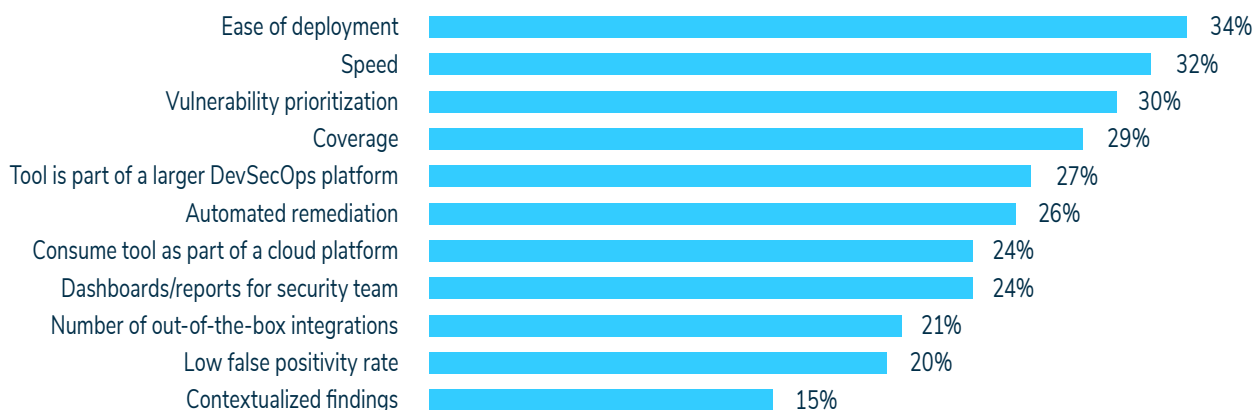
Mobile app developers don't want to learn new DevSecOps tools, interrupt their usual workflows or scrap their current processes. They want to tap the tools they're accustomed to in their preferred development workflows. NowSecure Platform integrates with the tools devs already use for a frictionless user experience.

Mobile app developers and security professionals can choose from an array of pre-built NowSecure Platform integrations and APIs to hook into existing workflows and tool stacks. The breadth and functionality of NowSecure Platform tooling and automation plug-ins enables devs to get started quickly and continue to use their existing tools in their current workflows with no new tools to learn.

DevSecOps Tool Selection Criteria

An IDC survey of mid-size to large organizations that have adopted DevSecOps prioritize the following capabilities when choosing a tool.

Criteria	Percentage
Ease of deployment	34%
Speed	32%
Vulnerability prioritization	30%
Coverage	29%
Tool is part of a larger DevSecOps platform	27%
Automated remediation	26%
Consume tool as part of a cloud platform	24%
Dashboards/reports for security team	24%
Number of out-of-the-box integrations	21%
Low false positivity rate	20%
Contextualized findings	15%

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NowSecure Platform integrates with the most popular CI/CD systems, ticketing boards and vulnerability management tools, including:

- Azure DevOps
- Bitrise
- Brinqa
- CircleCI
- Cloudbees Jenkins
- Coalfire Threadfix
- Code Dx
- GitHub
- GitLab
- Jira
- Splunk

Organizations with unique DevSecOps pipelines can take advantage of the NowSecure Platform REST and GraphQL APIs to meet their specific needs:

- Customize REST API-based integrations based on their preferred workflow and tool stack to reduce friction and provide fast feedback loops that improve the quality of builds.
- Tap the GraphQL API to pull NowSecure Platform test results for deeper analysis.

Stakeholders can quickly and easily integrate NowSecure Platform throughout the dev pipeline to strengthen mobile AppSec. Thanks to built-in automation and autonomous operation, developers don't need to take any action to trigger assessments or generate tickets.
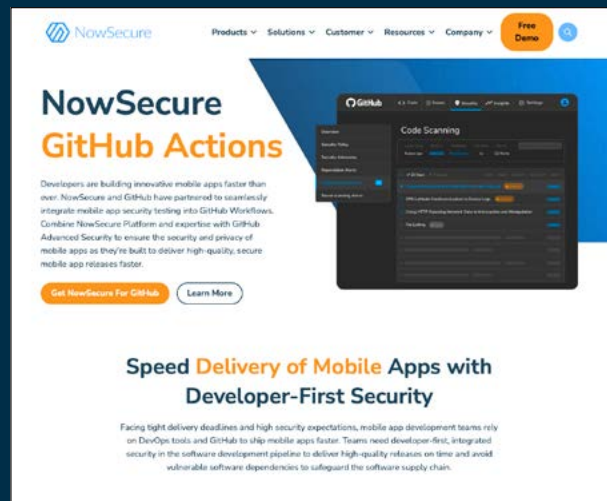
NowSecure GitHub Actions Deliver Dev-First Security

GitHub has more than 80 million users and is the most widely deployed code repository. To meet developer and security team needs, GitHub has invested in building security tooling directly in the GitHub environment through GitHub Advanced Security. NowSecure and GitHub together provide developer-first security directly in the software development pipeline. The companies partnered to seamlessly integrate mobile app security testing into GitHub workflows through GitHub Actions. The NowSecure GitHub Actions enable organizations to deliver high-quality releases on time and avoid vulnerable software dependencies to safeguard the software supply chain.

NowSecure offers two GitHub Actions:

- **NowSecure GitHub Action for Mobile App Analysis** NowSecure offers the first automated dynamic mobile app security testing solution integrated into the GitHub Advanced Security code scanning interface. The action delivers fast, automated and accurate security analysis that development and security teams can consume natively in GitHub. Development and security teams can use the NowSecure GitHub Action for Mobile

App Analysis to test security and privacy on each and every commit or configure it to run continuously during every build.

- **NowSecure GitHub Action for Mobile SBOM** The NowSecure GitHub Action for Mobile SBOM dynamically generates a mobile Software Bill of Materials (SBOM) into GitHub Dependabot for dependency tracking. Each NowSecure mobile SBOM identifies direct and transitive dependencies, libraries and frameworks that are using outdated versions, components that remain but may have previously been specified to be removed and component license details.

Integrated Automated Testing Drives Speed & Productivity

Fusing mobile application security policy, testing, remediation and continuous improvement into the dev pipeline boosts speed and efficiency. Integrated workflows help dev teams deliver on time, on budget and with required functionality while ultimately saving time and money. NowSecure Platform capabilities enable organizations to bring mobile apps to market faster and more cost effectively.

High-performing mobile app development and security organizations set mutually agreed upon policies for mobile AppSec. Committing to building apps with secure coding practices and testing against those requirements and standards clarifies expectations, builds trust and yields consistency.

NowSecure Platform Policy Engine enables organizations to seamlessly deploy, automate and enforce customized security policies and controls against industry established standards. Users can create policies for different mobile apps based on the risk profile and threat landscape.
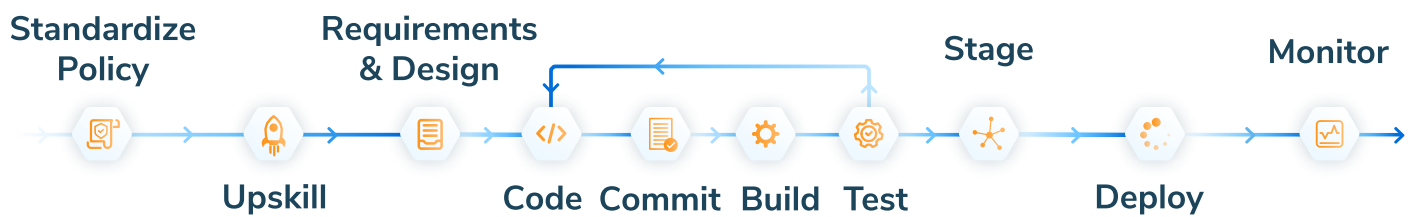
Integrating NowSecure Platform into the dev pipeline empowers devs to run automated testing and focus only on critical security issues. DevSecOps and security teams can configure NowSecure Platform to automatically generate issue tickets based on policy and prioritize based on urgency, breaking the build when necessary for security bugs with the highest severity.

Configuring NowSecure Platform with a CI/CD tool of choice, such as Jenkins or Azure DevOps, automatically kicks off assessments when code is committed. Additional configuration options are available for GitHub through GitHub Actions, where analysis can be initiated as a step in any workflow, including developer commit, pull request or mobile app build. Tests complete in less than 20 minutes with a false positive rate of less than 1%. Fast, accurate assessments that fit into existing workflows prevent developers from wasting time waiting for results or trying to find false positives that stem from erroneous results.

Integration with ticketing systems eliminates the need for developers to focus on tedious tasks such as manual bug reporting and ticket creation. DevSecOps teams can select the board they want to push tickets to — GitHub Issues or Jira Tickets, for example — to scale mobile AppSec test automation to multiple pipelines. Because NowSecure Platform supports two-way integration, devs and security analysts can review ticketing information directly in their issue-tracking boards or in NowSecure Platform and teams can stay connected by seeing when action was taken.

The default configuration displays all findings information in the ticket, but users can also customize the findings content they wish to include, such as the business impact of a vulnerability, for example. A declarations feature aids communication and collaboration between development and security teams by enabling users to add feedback, descriptions and attachments to findings and tickets.

NowSecure Platform boosts productivity by embedding helpful remediation guidance in tickets. The remediation assistance includes repair instructions, evidence, code samples and links to iOS and Android documentation. These resources enable developers to quickly find and fix bugs and reduce their mean time to repair metrics.

Integrating NowSecure Platform with popular vulnerability management systems enables teams to capture, analyze, route, orchestrate and maintain performance management dashboards that support continuous improvement. In addition, mobile appsec testing throughout the SDLC facilitates fast feedback to drive continuous improvement. As developers use NowSecure Platform to find and fix security issues, over time they learn how to avoid common security vulnerabilities through secure coding practices.

Upskill on Secure Mobile App Development

NowSecure launched NowSecure Academy in 2021 to counter a lack of mobile-specific security skills in the industry. The online learning resource offers free, self-paced mobile app security and privacy courseware along with certification programs to upskill teams to improve performance.

Designed for developers, QA and security professionals, the site features more than 600 hours of videos and learning coursework focused on secure coding and pen testing practices. Topics include mobile AppSec fundamentals, mobile hacking and securing IoT and Bluetooth Low Energy, data storage, network communication and third-party dependencies; among other subjects.

NowSecure also offers secure mobile development and mobile application security certifications for developers and security analysts. From foundations to professional-level certificate learning paths plus specialty courses, there's a course for everyone at introductory through intermediate skill levels.

As of its first anniversary, more than 3,000 professionals have increased their knowledge about mobile AppSec and secure mobile development through NowSecure Academy courseware. Visit academy.nowsecure.com to enroll via a free account today.

Optimize the Pipeline with NowSecure

There's no doubt that integrated mobile application security testing for DevSecOps drives productivity gains. NowSecure Platform makes it easy for development teams to run assessments, consume results and find and fix issues faster, ultimately accelerating software delivery while improving quality.

Policy-driven security testing strengthens dev alignment with the security team and boosts efficiency by eliminating uncertainty about what security issues require remediation. NowSecure Platform customers report 30% faster release cycles and a 30% reduction in security vulnerabilities with 30% less cost.

Developers embrace NowSecure Platform because it works with their existing tools and they don't need to learn yet another new interface. In addition, integrated testing and training bridges the gap between security and development teams and eliminates late-stage release blockers.

Get a demo to see NowSecure Platform in action as the first step towards integrating automated mobile AppSec testing into the development pipeline to speed delivery of secure, high-quality mobile apps.

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