

NowSecure Workstation

The Ultimate Power Tool for Mobile App Security Analyst and Pen Tester Productivity

NowSecure Workstation Highlights

- Preconfigured Hardware & Software Kit
- On-premises, Analyst-directed Testing of iOS / Android Binaries
- Easy-to-use Interface with Wizard-driven Hands-on Testing
- Repeatability with Customizable Preferences for Speed
- Hands-on Testing & Report Generation Complete in 1-2 hrs
- Testing on Real Mobile Devices
- Flexibility to Test Jailed or Jailbroken Modes to Analyze Binaries for Latest iOS Releases
- Ideal for Complex Scenarios like MFA, CAPTCHA, IoT, USB, and Bluetooth
- Combines Leading Open Source Tools like Frida, Radare and r2frida with Proprietary Tests
- Near Zero False Positives

"We rarely get things that are ready to go out of the box, but when we received the NowSecure solution, we were up and running the same day... The longer we use the product, the more efficient we have become at evaluation."

Derrick Smith, CEO
NSight365



NowSecure Workstation streamlines modern testing for mobile app security and privacy with a single easy-to-use testing kit.

Purpose-built for mobile security analysts, the preconfigured hardware and software kit eliminates time configuring and troubleshooting homegrown test environments and generating reports.

Security analyst teams can now complete Android and iOS app security assessments in 1-2 hours using our consistent test environment built on a mix of open-source tools and proven, proprietary testing methodologies.

With more than 200 built-in tests, analysts are in full control and can conduct step-by-step interactive testing. Analysts can pause as needed to dig into individual units within those tests such as device memory or packet data, or interactively test multi-factor authentication, mobile apps with IoT, CAPTCHA and USB/Bluetooth connected equipment such as for medical, automotive, industrial and consumer products.

Preformatted and customizable reporting options speed dissemination of results across multiple stakeholders with actionable results users trust.

NowSecure Workstation Workflow



NowSecure Workstation Speeds Security Testing Workflows

All-in-one pen testing kit to jumpstart mobile appsec program

The NowSecure Workstation all-in-one toolkit combines a preconfigured laptop with mobile security testing software, an iOS device, an Android device and a Wi-Fi dongle. Within minutes, security analysts can load a mobile app binary on one of the devices, configure sensitive data and search terms, and start testing.

Fast, stable & repeatable to reduce manual inefficiencies

Rather than fighting test harnesses, setting up proxies and OSS/scripting configurations on each test run, automation enables repeatable processes built on unified testing environments, proper test configuration, automated diagnostics, security testing standards, and reporting guidelines.

Advanced customization to leverage existing tools

Analysts can use additional tooling (eg. NMAP, Androguard, etc), advanced code testing using the remote shell, etc to ensure relevant results.

Deep-dive analysis at the analyst's fingertips

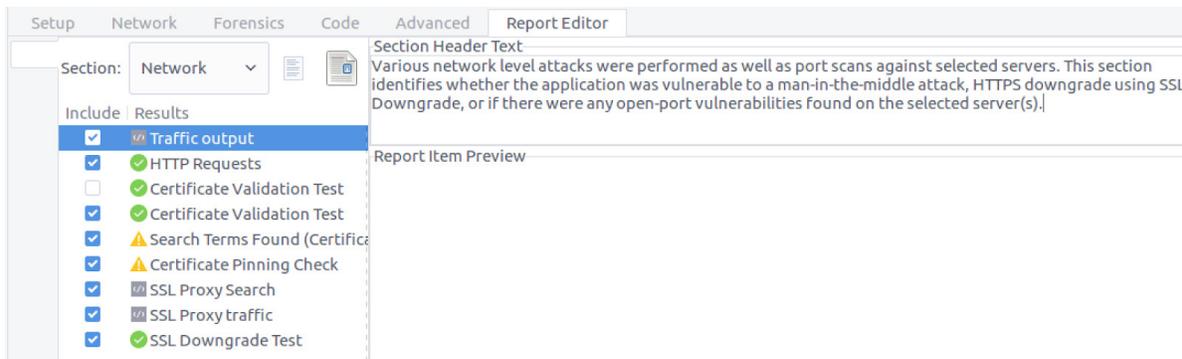
Analysts can leverage advanced capabilities for critical app analysis, such as dynamic code analysis via r2frida to complete complicated tasks very quickly. Similarly, easily bypassing certificate pinning enables analysts to eavesdrop on network traffic and perform man-in-the-middle attacks (MiTM).

Easy-to-use automatic report generation saves time

NowSecure Workstation automatically generates preformatted, ready-to-share reports combining results of all tests and tools used during the assessment, eliminating time-consuming frustrations of manual report assembly.

Rich output enables fast remediation

Detailed remediation instructions show exactly where vulnerability or risk issues are located and how to fix them. Reports include mappings and reference details to common regulatory standards of OWASP Mobile Top 10, FFIEC, PCI, NIAP, HIPAA, GDPR, CWE, and more.



Testing Methodology



NowSecure Workstation provides an automated, wizard-driven test harness with hundreds of built-in tests, leveraging proprietary technology developed by the NowSecure Research team and best-in-breed tools from the open source community. NowSecure Research includes elite mobile app security 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. NowSecure Workstation extensibility means analysts can tap into their favorite tools to leverage their own best practices as well.

NowSecure Workstation uniquely combines automated Static Application Security Testing (SAST), Dynamic Application Security Testing (DAST), Interactive Application Security Testing (IAST) and API security testing for full testing on real mobile devices, not emulators. NowSecure Workstation reverses the mobile app binary and uses SAST to identify critical code issues

first, then launches DAST+IAST+API 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". 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 for further action.

This integrated DAST+IAST+API approach enables a security analyst using NowSecure Workstation to exercise the mobile app and backend APIs the exact same way an attacker would at runtime, probing 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.

Rich Reporting to Find and Fix Issues

NowSecure Workstation eliminates manual test result analysis, interpretation and consolidation through a rich report engine. Across the large battery of tests, NowSecure Workstation automatically assembles rich, actionable and shareable reports including all the information to understand and fix issues fast:

1. Description of issue and relevant supporting information
2. Context details verifying finding such as actual interactive proxy traffic, passwords found in keychain, unencrypted sensitive data found in HTTP or local storage, application behaviors, API/endpoint connections found, and more
3. Includes severity and risk level using CVSS scores, a universal, open and industry standard method for rating risk and security vulnerabilities
4. Easy-to-understand remediation instructions and links to additional resources for developers and security pros to fix issues quickly
5. Regulatory mappings include PCI, CVE, CWE, NIAP, GDPR, FFIEC, FISMA, HIPAA, and OWASP Mobile Top 10

How It Works

1. NowSecure Workstation is a fully provisioned kit including a MacBook Pro, an iOS device, an Android device and a WiFi dongle.
2. Simply connect a device and load the application that the internal team builds or download public apps from the Apple App Store™ and Google Play™, create a project, select the mobile app and begin the assessment.
3. Proceed through the intuitive setup wizard to set up a WiFi network and create sensitive data search terms relevant to the application. Then start a test.
4. During the test run NowSecure will apply SAST+DAST+IAST and API security testing processes while searching for a myriad of critical vulnerabilities and sensitive data leakage on device, over the air and on API endpoints.

Status	Item	Section
MEDIUM RISK	Certificate Validation Test (No Credentials)	Network
MEDIUM RISK	Found Device ID (Application Files)	Forensics
MEDIUM RISK	App Transport Security Disabled	Code
LOW RISK	Certificate Pinning (No Traffic)	Network
LOW RISK	Insecure Ciphers - TLS1.0 (SSL Scan)	Network
LOW RISK	LocalAuthentication Framework	Code
PASS	HTTP Requests	Network
PASS	SSL Downgrade Test	Network
PASS	ASLR Implementation	Code
PASS	Stack Overflow Check	Code
PASS	Automatic Reference Counting Check	Code
PASS	Heartbleed Vulnerability	Code
PASS	OpenSSL CCS Vulnerability	Code

5. The analyst has full control to review, modify and comment on the results under network, forensics, code and advance tabs.
6. Automatically generated reports are easily customizable and include vulnerability descriptions, CVSS 3.0 scoring, remediation recommendations, and regulatory mappings.

Boost Security Team Efficiency and Test Coverage

NowSecure Workstation is purpose-built for mobile app security teams. NowSecure Workstation turns new-to-mobile security analysts into mobile app security experts overnight, and empowers veteran mobile security analysts to speed through the mundane work and dig deeper into complex scenarios. By reducing mobile appsec testing time from weeks to hours, NowSecure Workstation drives 10x productivity gains for security analysts and substantial capacity gains across security teams. Organizations that build and use mobile apps tap into NowSecure Workstation to enable their internal security teams with speed and depth to meet the needs of the business. Penetration testing companies and Managed Security Services Providers (MSSPs) leverage NowSecure Workstation to scale their security testing business cost efficiently.



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Only NowSecure delivers fully automated mobile app security testing software with speed, accuracy and efficiency for Agile and DevOps initiatives. Through static, dynamic, interactive and API security testing on real Android and iOS devices, NowSecure identifies the broadest array of security threats, compliance gaps and privacy risks. NowSecure customers can choose automated software on-premises or in the cloud, expert professional penetration testing and/or managed services, or a combination of all as needed. As trusted security experts, NowSecure is SOC2 certified and twice positioned as the worldwide leader in 2019 IDC MarketScapes for Mobile Application Security Testing and named a DevSecOps Transformational leader by Gartner in 2020.