digital.ai

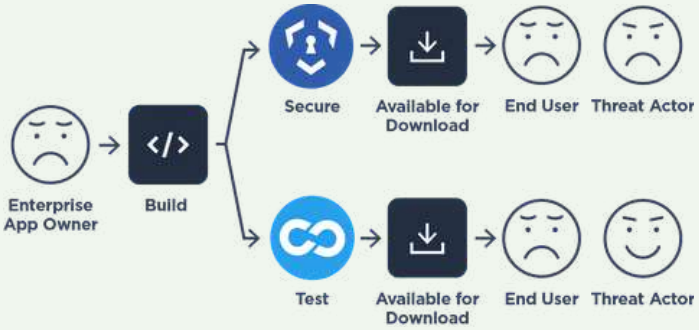
Quick Start Guide:
Testing Hardened Mobile Apps

What will it be? Secure apps or quality apps? Your organization demands both: bulletproof security and a flawless user experience. Yet your current tools are forcing you to make a choice. Either you run comprehensive tests on unprotected code (and cross your fingers that hardening doesn't break anything), or you test protected builds that trigger so many false positives your automation becomes useless. Both paths lead to the same uncomfortable outcome: shipping software you're not fully confident in.

Sound familiar? You're not alone. Many organizations believe they must choose between comprehensive security and efficient testing. They make compromises, like applying only lightweight security so that automated tests will pass, then later testing manually after full hardening is applied. It's a duplicated effort that doubles the amount of work while cutting confidence.

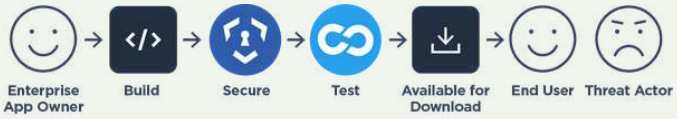
Digital.ai's Application Security and Testing products transform this broken process into a seamless workflow.

BEFORE



In the past, app owners were forced to choose between securing or testing their apps.

AFTER



*With Digital.ai, app owners can **automate testing on hardened apps,** thus keeping threat actors frustrated and end users happy*

This guide shows you how to achieve what most teams think is impossible: comprehensive automated testing of fully hardened mobile apps. No more lightweight security workarounds. No more manual testing after protection. Just one unified workflow that secures your code at build time and tests it thoroughly without triggering any protective mechanisms, giving you full-strength security and complete testing confidence.

Combine Protection and Testing in One Flow

Harden Your App with Digital.ai Application Security...

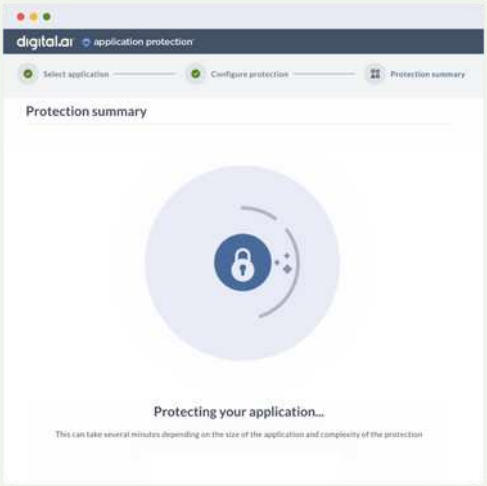
Digital.ai's Quick Protect Agent provides you with a strong first line of defense against a wide variety of attacks. Unlike traditional security solutions that require extensive configuration, the Quick Protect Agent integrates directly into your build process with minimal setup.

...Test Your App with Digital.ai Testing

Digital.ai Testing provides reliable test execution at scale, letting you validate your mobile apps on shared or dedicated iOS and Android devices across common browsers and versions in our cloud or your data center. Reliable testing is a crucial part of software quality, helping teams catch bugs early, validate functionality, and maintain stability as applications evolve.

Quick Setup

1. Run the Quick Protect Agent in your build environment.
2. Use one simple command line instruction to integrate protection into your CI/CD pipeline.
3. Set one command line flag to enable security and testing integration in the same pipeline.
4. Run the new integrated process and sit back as your app is automatically secured, built, and tested in the same workflow.



Key Benefits

- **Security automation:** Protections are automatically applied during your existing build process.
- **Comprehensive security:** Address the most impactful threat and attack vectors identified by the Organization of Worldwide Application Security Professionals (OWASP®) and documented in the OWASP Mobile Application Security Verification Standard (MASVS)[1].
- **Eliminate duplicated effort:** No more maintaining separate protected and unprotected builds for different testing phases.
- **Full-strength security during testing:** Perform functional and performance testing with confidence while all protections are active.
- **Reduced time-to-market:** Purge wasted effort and manual testing bottlenecks that slow down your release process.

1. "The OWASP® Word Mark and OWASP & Design™ Logo are registered or unregistered service marks of OWASP Foundation, Inc. in the United States and other countries. All rights reserved. Unauthorized use strictly prohibited.

Rollout Tips

Start Small: Choose One Mobile App First

Begin with a single mobile app rather than attempting organization-wide adoption. This approach allows you to:

- Establish baseline metrics for both security coverage and test execution times.
- Validate that existing test suites run successfully against hardened builds without modification.
- Create a repeatable approach.

Ensure Cross-Team Alignment from Day One

Break down silos by including Development, Security, and Testing teams in planning and retrospectives from the start. The most common integration failures occur when teams operate in isolation. This collaboration ensures:

- Shared understanding of protected code that might impact performance or tests.
- Clear communication channels for addressing both security and testing concerns.
- Proactive identification of potential issues before they impact releases.

Optimize Protection Settings Based on Performance Data

Use real-world performance testing to fine-tune security configurations for optimal testing compatibility. Not all protection options impact testing equally, so a data-driven approach helps you:

- Maintain maximum security strength while ensuring reliable test execution.
- Adjust protection based on actual test performance.
- Document decisions that become part of your standard template.

Success Criteria for First 30 Days

Streamlined Release Process

Track these key performance indicators to measure your integration's impact on delivery speed:

- **Reduced pipeline branches:** Eliminate separate testing workflows for protected vs unprotected builds
- **Faster validation cycles:** Measure reduced time from build completion to deployment approval.
- **Increased automation coverage:** Track the percentage of tests now running on hardened builds.

Quality Detection Improvements

Your integrated workflow may surface problems that previously went undetected:

- **Regression detection:** Catch performance issues before they impact users.
- **Crash prevention:** Identify stability problems that only occur in protected builds.
- **User experience validation:** Detect usability issues that may occur when security protections affect app functionality.

Operational Success Indicators

These qualitative measures indicate successful integration:

- **Developer confidence:** Teams no longer question whether hardened apps will work in production.
- **Release predictability:** Consistent deployment schedules without security-related delays.
- **User experience validation:** Reduced friction between security, development, and testing teams during release cycles.

Ready to Get Started?

Our integrated approach transforms what was once a complex balancing act into a streamlined, automated process. Your hardened applications flow through testing as smoothly as they did before security protections were added, but now you have the added confidence that comes from comprehensive security and quality validation.

The result is faster releases, stronger security, higher quality, and happier development teams who no longer have to choose between protection and quality.

Want to learn more about configuring your pipeline? Talk to one of our security experts today!

The Digital.ai Difference

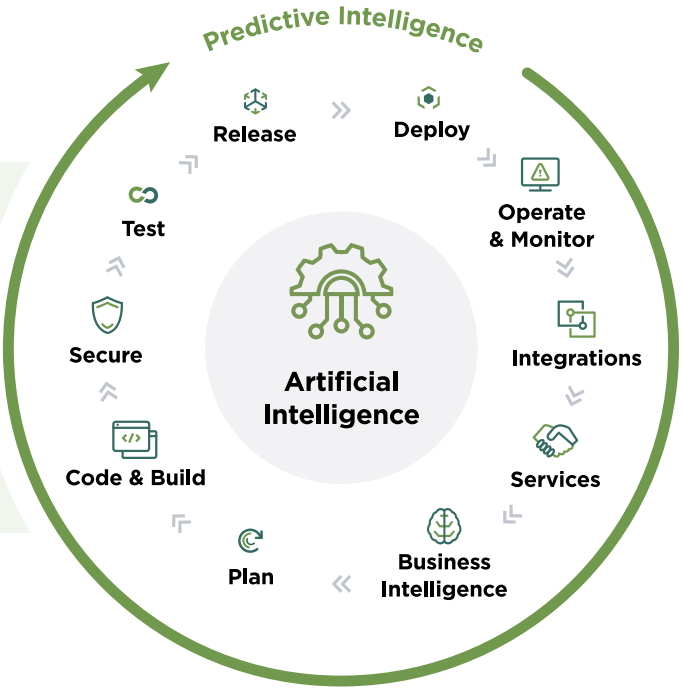
One platform that automates release pipelines and integrates complex toolchains.
Unify app delivery, integrate existing tools & scale across any environment.

Automated mobile app testing and security designed to scale.
Provide secure, high-quality apps through better automated testing & app protection techniques.

Built-in AI, intelligence, compliance, and governance across all software delivery workflows.
Centralize data, optimize processes, and gain augmented insights for faster, safer software delivery.

Digital.ai AI-powered DevSecOps platform

Helping you harmonize software delivery



About Digital.ai

Digital.ai is the only AI-powered software delivery platform purpose-built for the enterprise, enabling the world's largest organizations to build, test, secure, and deliver high-quality software. By unifying AI-driven insights, automation, and security across the software development lifecycle, Digital.ai empowers enterprises to deliver innovation with confidence. Trusted by global 5,000 enterprises, Digital.ai is redefining how enterprises build better software in an AI-driven world.

Additional information about Digital.ai can be found at digital.ai/ and on Twitter, LinkedIn and YouTube.

Learn more at Digital.ai

digital.ai