



Camelot Lottery Hits the Jackpot

Winning DevSecOps combo of NowSecure Platform and GitHub Actions integrates security through the mobile app SDLC and speeds releases.

About

Camelot Lottery Solutions (Camelot LS) provides digital gaming solutions and technologies for lotteries around the world, including the Illinois Lottery, the Irish National Lottery and the UK National Lottery. The company's mobile apps help lottery operators reach new players and increase engagement to grow responsibly. Camelot LS has a brand history of integrity, security and transparency.

Executive Summary

Camelot Lottery Solutions powers the lottery industry around the globe. The digital services provider develops Android and iOS mobile applications that offer innovative features to engage players. Operating in a heavily regulated industry in which consumer trust is paramount, Camelot LS needs to balance fast-paced development with efficient risk management.

The company integrated NowSecure Platform mobile application security testing software into its mobile DevSecOps pipeline to achieve the following benefits:

- Test the security, privacy and compliance status of mobile apps in development
- Eliminate delays in security testing and app store blockers to release mobile apps faster
- Drive continuous improvement with accurate dev-friendly findings, remediation instructions and code samples

“The ease of integrating NowSecure Platform, GitHub and Bitrise and the efficiencies it brings are amazing.”

— Panagiotis Megremis, Lead Software Engineer in Test, Camelot Lottery Solutions

The Story

Camelot Lottery Solutions specializes in building mobile apps to responsibly engage players and drive sustainable lottery growth. The company integrated NowSecure Platform automated mobile application security testing software directly into its GitHub CI/CD pipeline to reduce friction and improve speed to market and code security.

Continuous testing directly inside development workflows enables Camelot LS to quickly find and fix security issues in its mobile apps, thereby delivering new gaming features to players faster. “Catching security issues in the development stage is imperative,” says Panagiotis Megremis, lead software engineer in testing for Camelot. Discovering security or privacy issues late in the process or worse, once a mobile app is in production, increases the amount of time required to fix them.

Prior to deploying NowSecure Platform, Camelot LS used the open-source OWASP ZAP tool to test web apps but lacked automated testing software designed for mobile apps. The company relied on external mobile pen testing which was inefficient for testing every app update and sometimes occurred too late

in the development process. Release dates slipped when the pen tests uncovered security issues for developers to address.

“Because we are in a highly regulated domain, security is very important to us,” Panagiotis says. “We want to deliver high-quality, secure mobile apps to our customers.”

“NowSecure Platform automates security testing throughout our DevSecOps pipeline from the build process all the way to issues ticketing.” — Dmytro Bezpalyi,
Security Engineer, Camelot Lottery Solutions

Developer-Friendly Mobile AppSec

Camelot LS chose NowSecure Platform due to the company's leadership in mobile security and the software's ability to integrate with popular DevSecOps tools. “We wanted an automated mobile appsec testing solution that integrated with the entire development workflow,” Panagiotis explains.

Camelot LS developers write code in Cordova and React Native and push out 10 to 15 builds per day. Developers and software engineers on the test team write and maintain the test automation pipeline and need mobile application security assessments to run autonomously in their existing toolchain.

“NowSecure Platform automates security testing throughout our DevSecOps pipeline from the build process all the way to issues ticketing,” says Dmytro Bezpalyi, security engineer. “When we have security issues the dev team reviews them, fixes the bugs and provides a new build.”

The gaming entertainment technology company's DevSecOps pipeline tooling includes the GitHub code repository, Bitrise mobile CI/CD platform and Jira issue tracking software. Camelot LS enabled NowSecure Platform directly inside GitHub workflows with GitHub Actions to continuously assess the security and privacy during every build. Available in the GitHub Marketplace, the NowSecure Action for GitHub integrates with GitHub Advanced Security for fast, accurate security analysis of Android and iOS apps.

NowSecure assessments combine SAST, DAST, IAST and APIsec and produce an SBOM for deep coverage. NowSecure Support can configure advanced assessments to include authentication and workflows for even more depth of testing.

“The ease of integrating NowSecure Platform, GitHub and Bitrise and the efficiencies it brings are amazing,” says Panagiotis. “Dev teams are empowered to quickly kick off tests and get the results in the tools they use every day.” Accurate findings in NowSecure Platform enable developers to focus on real issues to fix rather than wasting time chasing false positives.

Camelot LS configured its GitHub Action to feed security issues into Jira code scanning alert tickets. Devs view the results of security assessments in Jira tickets which include developer-friendly contextual information to help them fix bugs quickly. NowSecure Platform provides helpful details about each finding such as severity, priority, evidence, code examples, remediation instructions and links to developer documentation.

The rich tickets and reports in NowSecure Platform helps Camelot LS developers remediate the issues and accelerate the delivery of secure mobile apps to its customers. In addition, the dev team learns how to continuously improve its secure coding practices.

Panagiotis takes pride in the Camelot LS DevSecOps pipeline and the company's prioritization of security via end-to-end integration of NowSecure Platform. “GitHub Actions are great and I recommend NowSecure Platform to anyone seeking mobile appsec testing for the DevSecOps pipeline,” he says. “Without question our mobile apps are now more secure.”

Enhancing Efficiency

The Camelot LS dev team enjoys the speed and accuracy of NowSecure Platform assessments while the security team appreciates the solution's instrumental role in reducing risk. “The assessments take 10 to 20 minutes. They are fast, especially when you have large mobile apps like ours,” says Panagiotis. “I find NowSecure Platform stable and easy to use.”

Thanks to the NowSecure Platform GitHub Actions integration, fast testing early in the development process empowers Camelot LS to reduce friction and avoid late-stage release blockers. In turn, its developers can quickly deliver innovative features that improve the gaming experience for players while safeguarding customer trust.

[NowSecure](#) offers a comprehensive suite of automated mobile app security and privacy testing solutions, penetration testing and training services to reduce risk. Trusted by many of the world's most demanding organizations, NowSecure protects millions of app users across banking, insurance, high tech, retail, healthcare and government. The company is SOC2 certified and was named a mobile security testing leader by IDC and a DevSecOps transformational leader by Gartner. Visit www.nowsecure.com to discover strategies for strengthening security and speeding the development of high-quality mobile apps.