

INTEGRATION BRIEF

Amplify Security Through QA Automation With Selenium and Rapid7 AppSpider

Application development teams are moving faster than ever. This acceleration is aided by modern web frameworks, CI/CD (Continuous Integration/Continuous Delivery) platforms, and automated testing that enable teams to build, test, and iterate in a fraction of the time it took before these technologies existed. One of these tools widely adopted by agile software development teams is Selenium. Selenium automates unit tests of specific web application functionalities in a browser; this saves development teams from the repetitive, manual testing that has historically been required to ensure new code doesn't break new features.

But the benefits of test automation don't have to be exclusive to developers: By integrating Rapid7 AppSpider, our dynamic application security testing (DAST) tool, with Selenium, you can leverage the automated functional unit tests created by QA teams to maximize security test coverage of an application. This expedites the identification and remediation of security bugs, and reduces the likelihood of missed vulnerabilities.

HOW IT WORKS

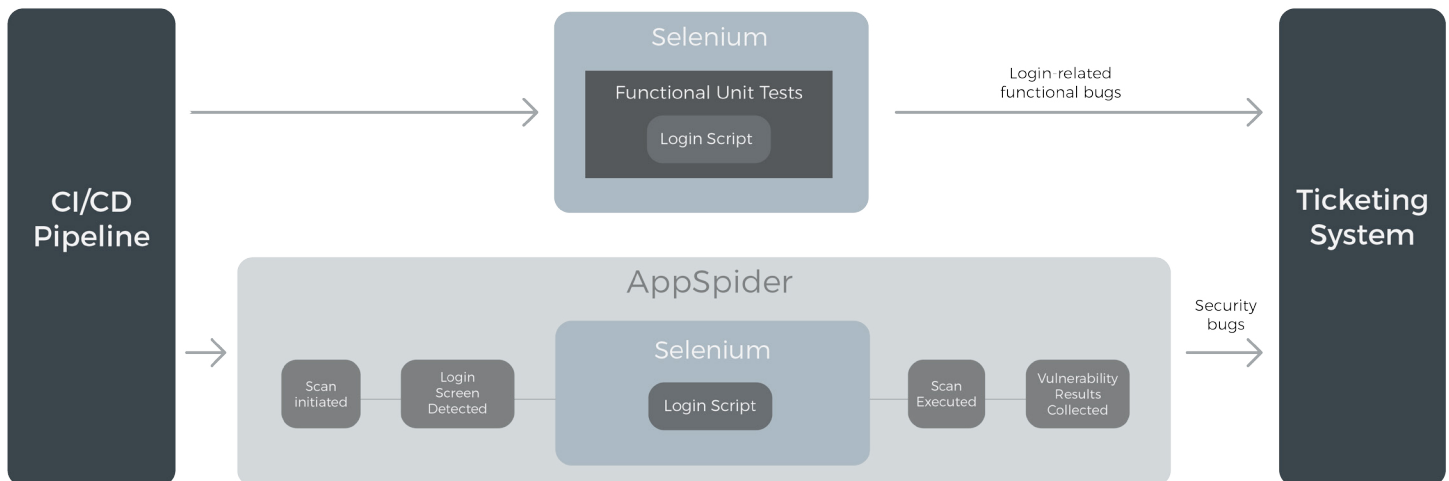
AppSpider integrates with Selenium to automate authentication into applications with a login screen. First, upload a Selenium script of the login sequence into your AppSpider scan configuration. When AppSpider encounters a login page, it will execute the Selenium script in an embedded Selenium engine to automate authentication, thus allowing the DAST scan to proceed in areas of the application guarded by the login screen.

INTEGRATION BENEFITS

Integrate Selenium with AppSpider to:

- Automate application authentication to maximize security testing coverage
- Leverage functional unit tests developed by QA in application security testing
- Save time configuring authenticated DAST scans

Figure 1: AppSpider executes a Selenium script to facilitate an authenticated scan of the target web application. The embedded Selenium engine enables AppSpider to use the same script used in functional unit tests.



About Selenium

Selenium is an umbrella project encapsulating a variety of tools and libraries enabling web browser automation. Selenium specifically provides infrastructure for the W3C WebDriver specification — a platform and language-neutral coding interface compatible with all major web browsers.

About Rapid7

Rapid7 powers the practice of SecOps by delivering shared visibility, analytics, and automation that unites security, IT, and DevOps teams. The Rapid7 Insight platform empowers these teams to jointly manage and reduce risk, detect and contain attackers, and analyze and optimize operations. Rapid7 technology, services, and research drive vulnerability management, application security, incident detection and response, and log management for organizations around the globe.

To learn more about Rapid7 or get involved in our threat research, visit www.rapid7.com.

NEED INTEGRATION SUPPORT?

Please contact Rapid7 for support or assistance at [+1.866.380.8113](tel:+18663808113) or our [customer support portal](#).

Wondering which of your other solutions integrates with our application security products?

To learn more about how InsightAppSec and AppSpider can integrate with other parts of your security stack, head to our [Technology Partners](#) page.

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