Case Study
MapAnything

Overview

HQ: Charlotte, North Carolina, USA

Industry: Location of Things (LoT)

Profile: Founded in 2009, MapAnything is a leader in Location of Things, helping enterprises harness the power of "Where" to inform business planning and to improve field worker productivity. MapAnything is a Gold Salesforce App Innovation Partner with over 160 employees and more than 2,100 customers worldwide, was recently recognized as an IDC Innovator in Field Service, and was awarded Entrepreneur Magazine's 360 Award for 2017.

The Objective

In order to completely secure their application from continuous security threats, MapAnything was in need of a fast, efficient, and seamless static code analysis (SAST) solution which fit into their DevOps toolchain and would allow them to embed security within their development process from early on in the software development lifecycle (SDLC).

MapAnything needed a speedy and dynamic solution that would work hand in hand with Salesforce development languages: Apex, VisualForce, JavaScript, and Node.js. Working with a cloud based / SaaS solution was also a strong preference.

The Solution

MapAnything is a Salesforce independent software vendor (ISV) with its main products on the AppExchange store. As the development teams expanded and began operating at the speed of agile development, the company found that going through the Salesforce security review process was long and cumbersome. It was particularly difficult for MapAnything when a long line of Salesforce customers were first in line to the scan queue to finish scanning.

As Checkmarx is Salesforce's official SAST partner, MapAnything's switch from using the Force.com Security Scanner (powered by Checkmarx) to using Checkmarx's SAST (CxSAST) solution was a simple choice.

Through MapAnything's usage of the free Force.com scanner and as Salesforce's AppExchange uses Checkmarx as a security gate scanner, they were already familiar with Checkmarx's accurate scan results. What the company needed was speed. The full Checkmarx offering would solve the need-for-speed-issue caused by the limitations of the free Force.com scanner, and this solidified MapAnything's choice to scan their application's code using Checkmarx.

As a Result of Their Checkmarx Implementation:

- Their application is free of compliance and securityissues
- They are no longer limited to the number of scans that can be performed on a daily basis, plus there is no wait for results
- Security is a priority at every stage of the software development lifecycle (SDLC)

AWS Deployment of Checkmarx

For MapAnything, a major advantage of using CxSAST is its ability to shine with AWS's infrastructure stack. CxSAST's ability to completely run on AWS and integrate with major CI/CD tools allows the static analysis to take place in the secure confines of MapAnything's Amazon AWS environment. CxSAST has become an essential part of MapAnything's development teams, providing a fully secured SDLC.

The Results

By using Checkmarx, MapAnything was able to embed security into the earliest stages of their software development lifecycle (SDLC) without the delays caused by traditional application security testing.

When MapAnything was just starting out, development teams would group a large amount of needed security fixes and patches before making one big fix. In contrast to the report provided by Salesforce, CxSAST's Best Fix Location came in handy for developers to fix multiple vulnerabilities and errors with a single fix, making remediation seamless and simple.

As the application matured and software vulnerabilities became significantly reduced, the development teams relied increasingly on CxSAST's incrementally scan capability to analyze the new and altered source code, instead of scanning the entire application. This enabled even faster deployments as part of MapAnything's agile development process.

Using CxSAST, MapAnything has a fully integrated security testing solution that fits into their current development workflow without slowing down any part of the process. MapAnything software safeguards customers' sensitive data from malicious parties.

Moreover, MapAnything provides its large customers with Checkmarx scan results alongside the Salesforce security validation as a security guarantee that customer data is being protected.