CHECKMARX

Case Study:

Leading Automotive Company Implements CxSAST to Strengthen Security

Overview

Country: Worldwide

Industry: Automotive

Profile: This automotive manufacturer is responsible for the distribution of automobiles and smart products. Today, the company has hundreds of dealerships with more than 1,300 employees across the United States.

The Objective

As many organizations strive to confront the rise in cybersecurity threats, the company knew that an effective Application Security program is key to mitigating cyber risk. An important part of the company's AppSec initiative involved the deployment of a Static Application Security Testing (SAST) solution that would identify software vulnerabilities early in the Software Development Lifecycle (SDLC).

By detecting and fixing threats early in the development process, the cost and time to remediate are greatly reduced. The company wanted a solution that integrated with their DevOps toolchain to match its speedy release cycles and a developer friendly solution that fostered user adoption.

The Solution

In 2015, after a thorough product evaluation, the company selected Checkmarx's flagship product, CxSAST, and they've been a happy customer ever since. Checkmarx provides extensive support for a wide spectrum of programming languages.

CxSAST security scanning is seamlessly integrated into the development CI/CD process and scanned results are initially reviewed by a centralized security team as a service to its development teams. Developers access the vulnerabilities in need of remediation from within the IDE used for all other daily development tasks.

AWS Deployment of Checkmarx

The company sought a cloud-based SAST offering. The SaaS needed to deliver high-performance and high availability, backed by high-level SLA commitments. The solution needed to be a fully managed service, offering private hosting and seamless support for the latest updates and product enhancements.

Leveraging AWS's infrastructure stack, including EC2, VPC, and N2W (backup services), Checkmarx fully supports their solution requirements. CxSAST provides static analysis in the secure confines of the AWS environment while providing a variety of integration points, including Jenkins, that are part of their SDLC.

The Results

The company runs approximately 4,000 scans, 200 unique projects, totaling nearly 500 million lines of code per year. Checkmarx's robust throughput involves three concurrent scans, but is capable of much more as the solution continues to expand.

CxSAST became a vital part of their development process. Security testing is handled early in the SDLC and enables developers to fix issues as they emerge. Thanks to Checkmarx's Best Fix Location, developers spend less time fixing vulnerabilities and more time writing new code, all from their familiar development console and without deviating from their existing workflow. Security awareness and competency has increased among its developers while application security best practices safeguard the company's product from cyber security related risks.

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