



Case Study



Overview

- * Developer secure coding education was the company's first step to achieving application security
- * CxCodebashing was chosen by the company's security champions
- * Once their developers were well versed in secure coding, DAZN Group started looking for a developer friendly application security testing platform with a broad language support, accuracy and the option to easily customize rules.
- * The company examined three different SAST solutions, CxSAST was chosen.
- * CxSAST is set-up on AWS and fits in with the company's DevOps culture



Company Profile

HQ: Feltham, United Kingdom

Industry: Sports, Software

Profile: DAZN Group is leading the change to give sports fans around the world access to sport anytime, anywhere. Using world class technological infrastructure and expertise from Perform Group, DAZN Group guarantees "no long term contract, no bundles, just one affordable price for access to all our sport on all your devices".

They are the world's largest sport broadcaster, streaming more than 101 million hours of content to fans, every year.

Case study interview was conducted with Dr. George Perkins, Application Security Specialist at DAZN Group

FirstThings First-Developer Secure Coding Education

Application security is a top priority at DAZN Group. Early on it was clear from the CTO to the CISO and all the way to the last developer that their software exposure needed to be monitored and managed.

In order to ensure the security of their code, the application security team had to first ensure that the company's developers thoroughly and fully understood application security. To do so, they decided to search for a worthy developer Secure Coding Education tool.

***Tip: Test the application security tools you are evaluating before choosing one.**

“The Great E-Learning Bakeoff”

20 security champions were divided into three groups; each group examined a different secure coding education tool, including Checkmarx CxCodebashing. Internally the teams called this evaluation: “The Great E-Learning Bakeoff” and all the security champions chimed in.

CxCodebashing’s friendly user interface, expansive set of lessons, broad language coverage and valuable educational information stood out against the other two competitors. The security champions chose CxCodebashing as their educational tool of choice.

Once DAZN Group's developers were well educated in secure development and understood vulnerabilities and how to remediate them, it was time to search for a SAST tool.

Evaluating SAST Solutions

“You have to understand your code and you have to analyze the results. And then you must start tuning it to your needs. You need to know the structure of your application” - Dr. George Perkins, Application Security Specialist at DAZN Group.

Once again, DAZN Group narrowed the competitors down to three SAST solutions including Checkmarx CxSAST. The evaluation team used Checkmarx CxSAST to run a scan on 200K lines of code from a legacy PHP website.

Based on those results, they chose Checkmarx CxSAST.

Reasons for choosing CxSAST:

- * Broad language support
- * The ability to easily customize rules
- * Its successful in-house test results
- * Its integration with CxCodebashing, their chosen developer secure coding education tool. Using CxSAST allowed their developers in-context and on-demand insight into their code early in the development process.

* **Tip: DAZN Group utilized Checkmarx’s Professional Services to ensure a smooth and quick on-boarding**

Using Checkmarx

CxSAST was a good fit because *“it puts security right in the middle of the developers’ code, so they can see mistakes they make on a regular basis and then adjust their behavior accordingly.” (Dr. Perkins, DAZN Group)* The security team sees the SAST results as well, enabling them to adjust training based on the errors most commonly made.

CxCodebashing ensures that developers understand the CxSAST findings, how to fix them and why coding securely is crucial throughout the SDLC to build secure applications.

DAZN Group's Application Security Specialist walked the extra mile to ensure secure application development: He wrote 147 secure coding guidelines for his organization that he plans to deploy as rules in CxSAST so that they are automatically enforced in the code, ensuring tailored-to-fit security.

The company decided to set up CxSAST in AWS because at the end of the day:

"Once you get past the initial roll out, it's all about scanning enough applications when you need them. So being able to fire up a scanning engine in AWS to take the load was the right way to go for us." (Dr. Perkins, DAZN Group)

Catering to a DevOps Culture

DAZN Group practices cutting edge development and advanced software engineering methods such as Agile development, microservices, and a DevOps methodology. Application security experts work hand in hand with Cyber Liability Engineers, who manage the CI|CD pipeline together. Integrating CxSAST into that pipeline allows scanning all the different code components before they go into production.

*** Tip: Train security champions in your organization: Developers who will know and understand security more than your average developer. They will be your eyes and ears on the ground and help you make sure secure development is implemented and truly understood.**