

FOR DEVELOPMENT AND ENGINEERING TEAMS

As organizations digitize faster and at greater scale than ever before, achieving a secure software development lifecycle through skills development is increasingly important.

Achieving this on the ground is not easy. Recognized tensions between security and engineering aside, skills development involves a large outlay of time from expensive people, spreading already overburdened resources thinner to 'shift left'. The alternative is static click-through training questions dictating best practice. For a proudly creative and pragmatic talent-set, these are quickly forgotten and have minimal impact.

Our progressive platform is built to address this problem, embedding security in the human elements of the software lifecycle to deliver tangible business outcomes in three ways:

EQUIPPING

Arm people with a range of continually updated secure development capabilities relevant to a highly fluid sector, from underlying theory to specialist skills.

EXERCISING

Run engineering teams through real-world scenarios which engage hands-on individuals in a way proven to build cognition and reduce skills decay.

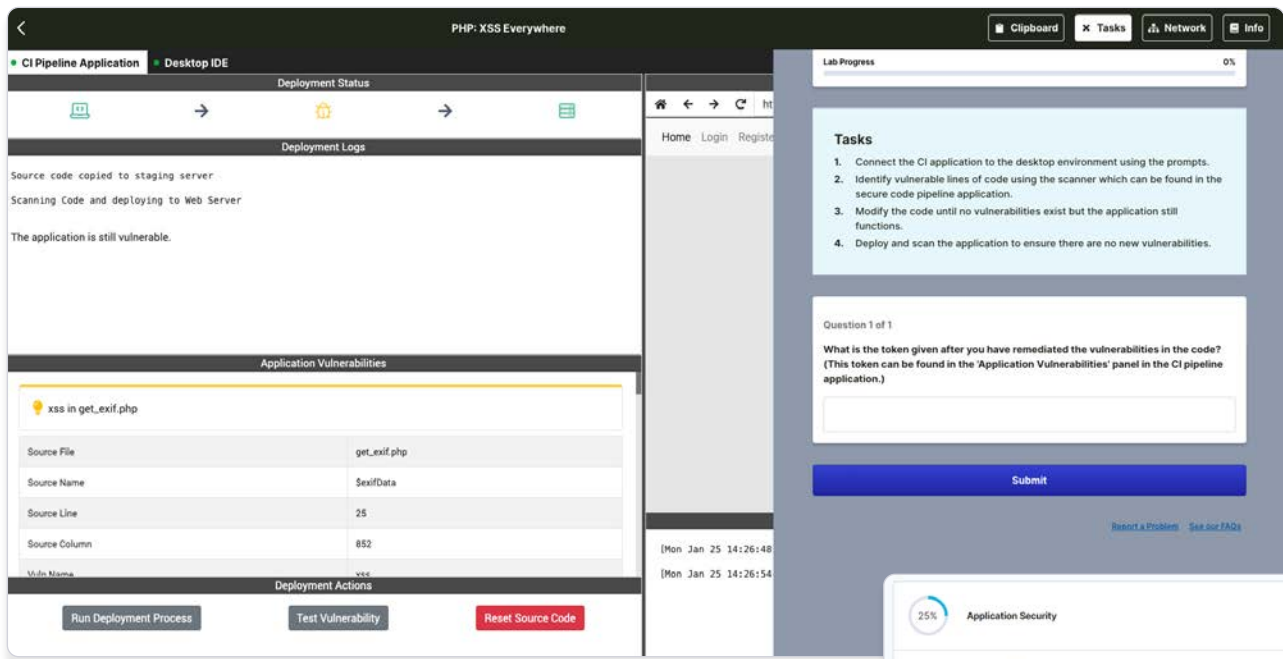
EVIDENCING

Understand and visualise the secure development capabilities of the entire team for better risk management and a more efficient CI/CD pipeline.

BUILDING HUMAN CYBER CAPABILITIES INTO DEVOPS TEAMS FROM THE GROUND UP

Immersive Labs for Development and Engineering Teams drops people into a range of continually updated SecDevOps challenges, scenarios, and simulations in the browser. Our platform teaches everything from basic underlying theory, such as authentication and authorization, to interactive challenges around the latest vulnerabilities, in a number of ways:

1. **Dynamic storylines:** Progress through real life gamified narratives based on everything from OWASP Top Ten and CWE Top 25, to breaking vulnerabilities. This encourages active learning in a way which appeals to the hands-on mindset of developers, embedding skills into the CI/CD pipeline. Ultimately, this prevents code being recalled once committed, reducing cost and friction in the innovation cycle.

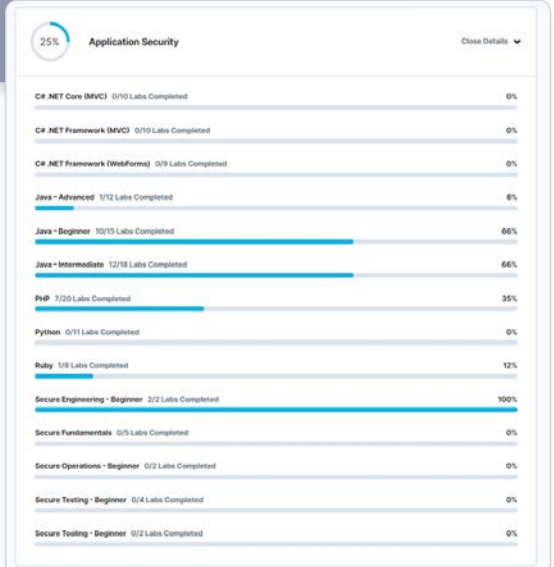


The screenshot displays the Immersive Labs interface for a 'PHP: XSS Everywhere' lab. The main window is divided into several sections:

- Deployment Status:** Shows a progress bar and deployment logs. The logs indicate: 'Source code copied to staging server', 'Scanning code and deploying to Web Server', and 'The application is still vulnerable.'
- Application Vulnerabilities:** A table lists a vulnerability:

Source File	get_exif.php
Source Name	\$exifData
Source Line	25
Source Column	852
- Tasks:** A list of four tasks:
 1. Connect the CI application to the desktop environment using the prompts.
 2. Identify vulnerable lines of code using the scanner which can be found in the secure code pipeline application.
 3. Modify the code until no vulnerabilities exist but the application still functions.
 4. Deploy and scan the application to ensure there are no new vulnerabilities.
- Question 1 of 1:** A text-based question: 'What is the token given after you have remediated the vulnerabilities in the code? (This token can be found in the 'Application Vulnerabilities' panel in the CI pipeline application.)' with a 'Submit' button.

At the bottom, there are buttons for 'Run Deployment Process', 'Test Vulnerability', and 'Reset Source Code'. A 'Lab Progress' indicator shows 0% completion.

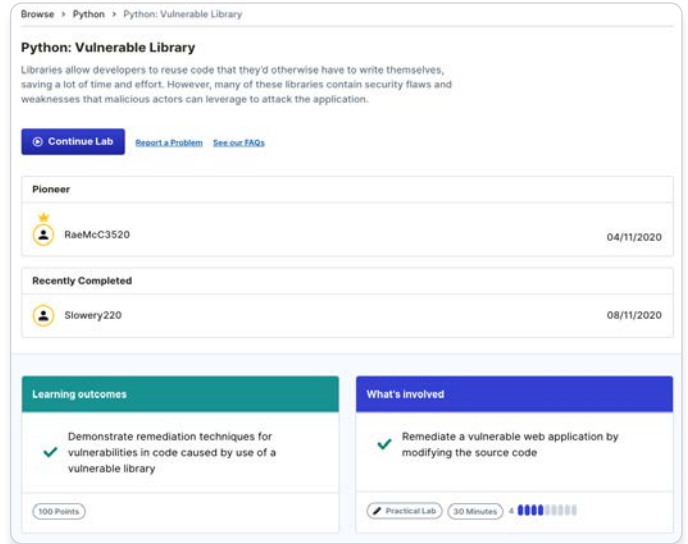


The 'Application Security' dashboard shows progress for various categories:

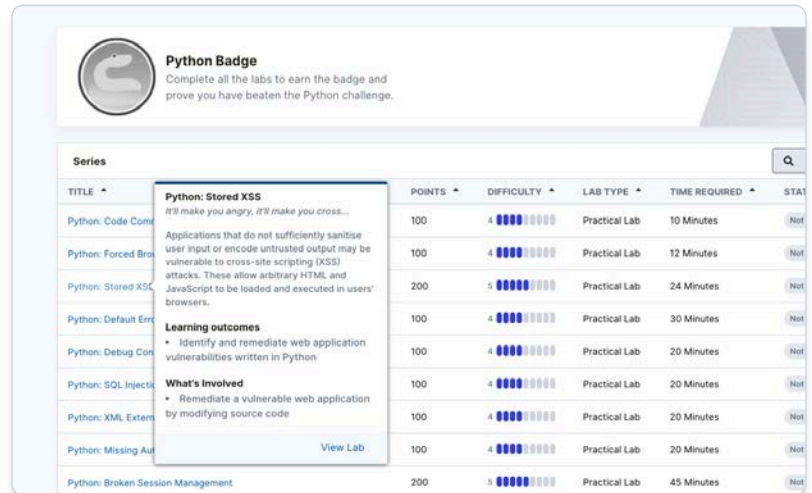
Category	Progress
CI .NET Core (MVC)	0/10 Labs Completed (0%)
CI .NET Framework (MVC)	0/10 Labs Completed (0%)
CI .NET Framework (WebForms)	0/9 Labs Completed (0%)
Java - Advanced	1/12 Labs Completed (8%)
Java - Beginner	10/15 Labs Completed (66%)
Java - Intermediate	12/18 Labs Completed (66%)
PHP	7/20 Labs Completed (35%)
Python	0/11 Labs Completed (0%)
Ruby	1/9 Labs Completed (12%)
Secure Engineering - Beginner	2/2 Labs Completed (100%)
Secure Fundamentals	0/5 Labs Completed (0%)
Secure Operations - Beginner	0/2 Labs Completed (0%)
Secure Testing - Beginner	0/4 Labs Completed (0%)
Secure Tooling - Beginner	0/2 Labs Completed (0%)

2. **Continuous development:** Upskill using regularly updated content which reflects the ever-changing nature of risk presented by a highly dynamic technology environment. As new vulnerabilities, tools and techniques emerge, so does the content your team learns from. This reduces friction and time-outlay from security teams and keeps the capabilities of developers and engineers relevant, encouraging more secure organizational transformation.

3. **Across the entire SDLC:** Build skills and understanding of security across the whole software lifecycle with content designed to be understood and used by everyone from coders, to QA, testing, and security operations. Challenge your developers to experience a Python SQL Injection and help security teams understand the nuanced differences in delivery timescales between Kanban and scrum. With these understandings, once siloed teams integrate more effectively and unhelpful tensions are reduced.



4. **Actionable insights:** Analyse and visualize the security capabilities of the entire SDLC, either as an overview or in granular detail. This helps managers understand where skills lie and task teams appropriately, for example by only allowing skilled members to commit code on high-risk applications. Not only does this reduce organizational risk, it also makes for better budgeting and strategy decisions.



DON'T JUST TAKE OUR WORD FOR IT.

We have a network of customers, including some of the world's biggest names cross finance, defense, military, government, and more.



Immersive Labs is the world's first human cyber readiness platform.

Our technology delivers challenge-based cybersecurity content developed by experts and powered by the latest threat intelligence. Our unique approach enables businesses to battle-test and evidence their workforce's preparedness to face emerging cyber threats.