Altice Labs Innovation Summer Camp 2024 - Dynamic Application Security Testing

Código/Code	Summer Camp'24_DAST
Departamento/Department	ISC21
Orientador/Tutor	Mafalda Guimarães Nunes
ID	N16
Estagiário/Trainee	<a preencher pelos RH>

Tema /Título/Title	Dynamic Application Security Testing
Âmbito/Enquadramento /Freamwork	Security is an important part of any application that comprises critical functionality or personal/sensitive data. Recent cyber attacks and the approval of more strict regulations put tremendous pressure on the need for various industries to ascertain the security of their products and services. Security applies at every phase of the software development life cycle (SDLC), starting from the requirements gathering stage to the deployment and maintenance of the application. It includes educating developers on the best secure coding practices and available frameworks for security, conducting an architecture risk analysis at the start, considering security when planning and building test cases, and using tools for automated security tests on the CI/CD pipeline. With dedicated effort, security issues can be addressed in the SDLC pipeline well before deployment to production. This reduces the risk of finding security vulnerabilities in an application and minimizes the impact when they are found. Altice Labs is continuously working on improving its secure software development lifecycle methodology and this project fits into that context.
Objetivos do Projeto/Goals	The main goal of this project is to explore the open-source tools recommended at Altice Labs for dynamic application security testing (DAST) and create a detailed tutorial about how to use those tools in the Altice Labs context. This project may require custom development to integrate the recommended DAST tools between them and facilitate their usage.
Atividades/Activities	Plano de trabalhos: • Review the selected DAST tools and possibly include other tools in the comparative analysis; • Explore the selected DAST tools, applying them to a real Altice Labs project; • Integrate DAST tools between them and with other technologies used at Altice Labs, to facilitate their usage; • Final report - detailed tutorial explaining how to perform DAST analysis in the Altice Labs context.
Tecnologias envolvidas/Involved technologies	• DAST Tools (e.g., OWASP ZAP); • GitHub and GitHub Actions;
Requisitos/Requirements	Basic security knowledge.
Orientador/Tutor	Mafalda Guimarães Nunes
Email (extenso)	mafalda-g-nunes@alticelabs.com
Local / Place	Aveiro
Modelo de Trabalho/Work Model (Remote/Mix/Local)	Mix
Duração/Duration	1 to 3 months
Data de Inicio/Start_Date	To be defined
Data de Fim/Due_Date	To be defined

Entre que datas/Between dates	Between July and September
Observações/Observations	