

IT Security

Web developers security labs

by Bogdan Mihai Nicolae

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Curriculum


1. [Open Web Application Security Project \(OWASP\)](#)
2. [Injection](#)
3. [XSS](#)
4. [Authentication Flaws](#)
5. [Authorization Flaws](#)
6. [Cryptographic Failures](#)
7. [Insecure Dependencies & Configuration](#)
8. [Software & Data Integrity Failures](#)
9. [Secure Development Lifecycle](#)


System Requirements

To perform the exercises you need

- *either* [Node.js](#) (20.x or 18.x)
- *or* [Docker](#)

 *On your company computer, please locate the guide detailing how to install Node.js. Once the installation process is finished, you can verify it by executing `node -v` on the command line.*

 *On the university computers, Node.js should already be accessible. You can confirm this by executing `node -v` on the command line.*

 *You can always fall back to your personal laptop for the exercises as it should be free from virtualization, proxying or installation hurdles!*

Recommended Resources

- OWASP: [OWASP Top 10 - 2021](#)
- OWASP: [OWASP Cheat Sheet Series](#)

Literature Recommendations (*optional*)

- Kimminich: [Pwning OWASP Juice Shop](#), 2022
- Stuttard, Pinto: The Web Application Hacker's Handbook 2, 2011
- Zalewski: The Tangled Web: A Guide to Securing Modern Web Applications, 2011

Awesome Web Security

Curated list of Web Security materials and resources.

<https://github.com/qazbnm456/awesome-web-security>

