

# 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 on your private computer you need

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

 *On the university computers Node.js should already be available. You can verify this by running `node -v` on the command line. It should display a 18.x (or higher) version.*

 *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>

