IT Security

Web developers security labs

by Bogdan Mihai Nicolae

Bogdan Mihai Nicolae

- Senior software engineer

- Frontend Lead

- Part time Lecturer at Politehnica University of Bucharest

- Security Passionate

- Educator and trainer

- Father of 👶 👦

Contact Information

- https://bogminic.com/
- https://twitter.com/bogminic
- http://www.linkedin.com/in/bogdanmihainicolae
- https://github.com/bogminic
- https://www.youtube.com/c/LectiadeWeb

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

ℹ️ *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.*

ℹ️ *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