IT Security

Application Security & SDLC

by Bjoern Kimminich

Curriculum 2nd Semester

1. Open Web Application Security Project (OWASP)

2. XSS

3. Injection

4. Authentication Flaws

5. Authorization Flaws

6. Sensitive Data

7. Insecure Dependencies & Configuration

8. XXE & Deserialization

9. Secure Development Lifecycle

Schedule

- **Thursdays, 09:15 - 12:00**

- 9 lectures (01.08. - 26.09.19)

- Exceptions ~~12.09.~~ and ~~26.09.~~ have been moved to

  - Tuesday, 30.07. (12:30 - 15:00) and Friday, 13.09. (09:15 - 12:00)

Test Exam

- **Monday, 30.09.2019** (90min)

- **09:15 - 10:45** / Audimax

- ⚠️ Covers topics from both semesters

System Requirements

To perform the exercises on your private computer you need

- *either* Node.js (8.x, 10.x or **12.x**)

- *or* Docker

- *or* Vagrant

ℹ️ *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 an 8.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 - 2017](#)

- OWASP: [OWASP Cheat Sheet Series](#)

Literature Recommendations *(optional)*

- Kimminich: [Pwning OWASP Juice Shop](#), 2019

- Stuttard, Pinto: The Web Application Hacker's Handbook 2, 2011

Awesome Web Security

" Curated list of Web Security materials and resources. "

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