

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

- Tuesdays, 9:15 - 11:45
- 9 lectures (31.07. - 29.09.18)

Test Exam

- **Thursday, 04.10.18** (90min)
- **11:30 - 13:00** / Audimax
-  Covers topics from both semesters

System Requirements

To perform the exercises on your private computer you need

- *either* [Node.js](#) (8.x or 9.x)
- *or* [Docker](#)
- *or* [Vagrant](#)

i *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 9.x) version.*

Recommended Resources

- OWASP: [OWASP Top 10 - 2017](#), 2017
- OWASP: [OWASP Cheat Sheet Series](#), 2018

Literature Recommendations *(optional)*

- Kimminich: [Pwning OWASP Juice Shop](#), 2018
- Stuttard, Pinto: The Web Application Hacker's Handbook 2, 2011