

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

- **xxxxxxxxxxx, xx:xx - xx:xx**
- 9 lectures (xx.xx. - xx.xx.19)


Test Exam


- **xxxxxxxxx, xx.xx.19** (90min)
- **xx:xx - xx:xx** / Audimax
-  Covers topics from both semesters

System Requirements

To perform the exercises on your private computer you need

- *either* [Node.js](#) (8.x, 9.x or 10.x)
- *or* [Docker](#)
- *or* [Vagrant](#)

 *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](#), 2018
- Stuttard, Pinto: The Web Application Hacker's Handbook 2, 2011

Awesome Web Security

“ Curated list of Web Security materials and resources. ”

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

