

IT Security

Organizatorial Remarks

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University of Bonn | Institute of Computer Science 4

Lecture IT Security | Uni Bonn | WT 2024/25





Ben Swierzy

2016 – 2019 B.Sc. in Computer Science in Bonn

2019 – 2021 M.Sc. in Computer Science in Bonn

since 2022 Researcher

IT Security Organizer & Lecturer

Interests Version Detection, Network Security, Reverse Engineering,

Cryptography, Web Security, ...



- How many are you?
- Who of you graduated in Bonn?
- Who of you is enrolled in the Bachelor?
- Who of you is enrolled in Computer Science?
- Who of you is enrolled in the Cyber Security Master?
- Who of you is enrolled in Mathematics?





UNIVERSITÄT BONN Lecture Overview



Part I: Lectures



Part II: Active Research Topics



- Secure Software Engineering
- Practical Challenges in Human Factors of Security and Privacy



- Security of Distributed and Resource-constrained Systems
- Side Channel Attacks
- Applied Binary Exploitation
- Malware Analysis



Research Topics

- Fuzzing
- Topological Data Analysis
- Wireless Device Identification
- Version Detection



- Supply Chain Attacks
- Cyber Reasoning Systems
- Privacy
- Web Authentication Schemes
- Identity Data and Passwords





Lecture

On Site: Thu 14:15 – 15:45 in HSZ - HS3

Livestream: only today

Exercise Session

On Site: Thu 12:15 – 13:45 in HSZ - HS7

Livestream: n/a



Website



https://net.cs.uni-bonn.de/wg/itsec/teaching/wt-202425/it-security/



Purposes of the mailing list

- Corrections and remarks
- Organisatorial information
- You can ask questions
- Lecturers can answer questions
- You can answer questions

Please do not send attachments on the mailing list!



UNIVERSITÄT BONN Lecture Slides & Exercise Sheets

Lecture slides and exercise sheets are published on Sciebo

Link: https://uni-bonn.sciebo.de/s/M13A2M9TEF7qNTp

Password:



Exam Admission

The get the admission to the exam, the following steps are mandatory.

- In a group of at most three students you need to solve exercise sheets.
- For admission to the exam you need to achieve
 - ≥50% points on
 - >70% of the exercise sheets
- There will be no more than 14 exercise sheets.
- Thus, you need to "pass" at least ten sheets.
- Moreover, you have to register to the exam in time. The Master Office will tell you the dates of the registration period.
- Directly after this lecture: Group Speeddating!



First Exam: 17th Feb 2025, 9:30 am, HSZ-HS2

Second Exam: 17th Mar 2025, 9:30 am, MA176-HS IV

Note: The times are not yet fully confirmed.

Important:

Exercise Technology



Exercises & Admission

The get the admission to the exam, the following steps are mandatory.

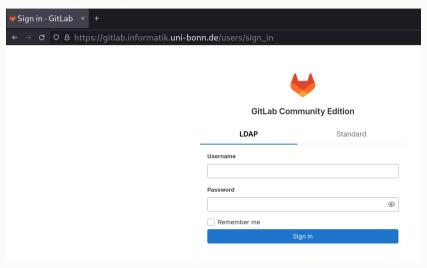
- If necessary, request or renew your CS Account: https://startup.informatik.uni-bonn.de/?lang=en
- Do that now!
- In order to take part in the exercise session, create or join a group (with your peers) today! https://flavius.cs.uni-bonn.de
 Note: Only reachable from the computer science network
- Afterwards, you will find the weekly exercises in the CS GitLab (not the Info4Gitlab). https://gitlab.cs.uni-bonn.de
- The first sheet is published today after the lecture (as merge request).







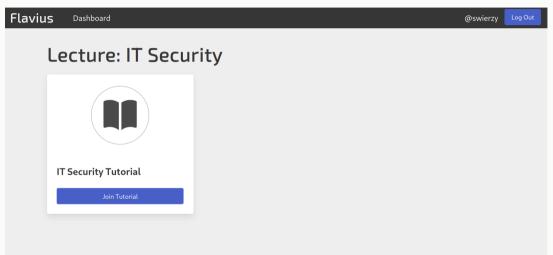




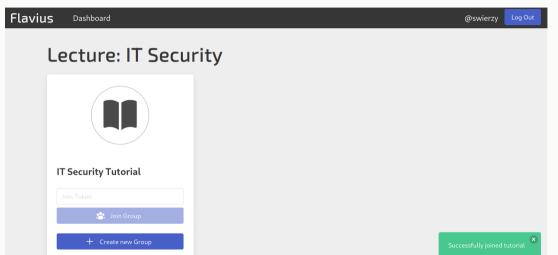




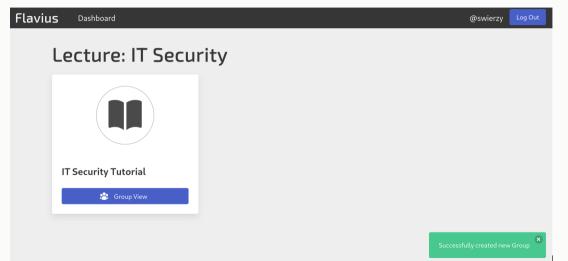




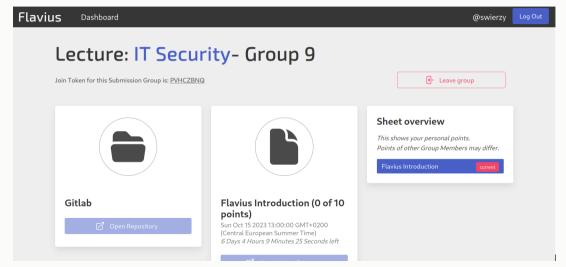




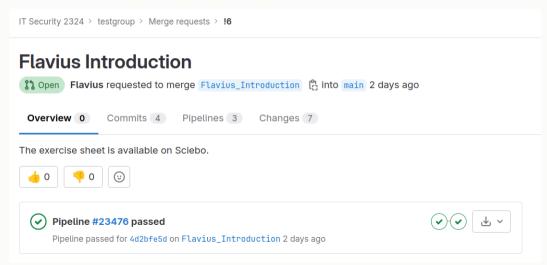




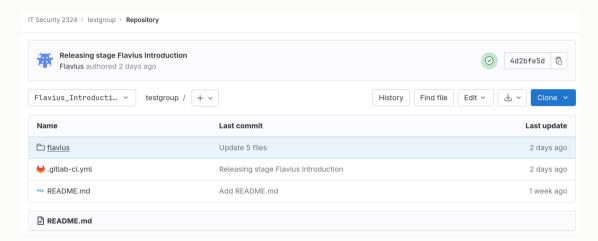




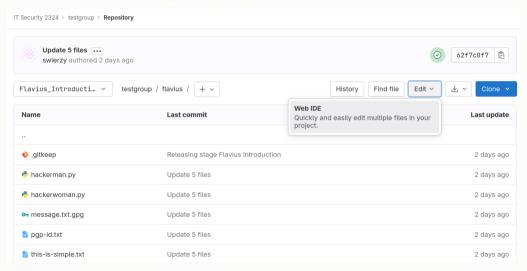












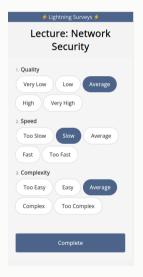
In case of tachnical problems

Most Important:

In case of technical problems, message me as soon as possible.



Lightning Surveys



Lightning Surveys

- for every lecture
- for every exercise sheet

Your participation will improve the quality of this lecture in the future!



Now: Group Speeddating