



# **Projektgruppe Sicherheit in verteilten Systemen**

BA-INF 051



# Anmeldung

Um ein Thema zu erhalten, musst du dein Expose bis zum 23.03.2020 eingereicht haben. Sende es bitte an den Betreuer des jeweiligen Themas. Du wirst bis zum 02.04.2020 informiert, ob du dein gewünschtes Thema erhalten/nicht erhalten hast.

**Deadline für das Exposé: 23.03.2020**

**Deadline für die Registrierung in BASIS: 30.04.2020**

# Anti- and Anti-Anti-Fuzzing Techniques

**Supervisor**

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# Anti- and Anti-Anti-Fuzzing Techniques

**Fuzzing** is a state-of-the-art analysis for finding bugs and vulnerabilities in software. It can be described as an "intelligent" brute-force analysis that penetrates a program with input to, hopefully, cause a crash.

Some developers might not want their software to be fuzzable, e.g. to protect it against adversaries. Hence, they implement anti-fuzzing techniques that slow down the fuzzing process.

However, that's just security by obscurity (i.e. not good) and on the long term an attacker will overcome the obstacle. Hence, one wants to break these anti-fuzzing techniques and find potentially hidden bugs before the attacker does.



# Anti- and Anti-Anti-Fuzzing Techniques

**Your task** will be to develop such an anti-fuzzing technique, **or** to take an existing technique and improve a fuzzer to overcome it.

**Requirements** are advanced programming skills in

- C/C++ or Java

## Literature

Jung, Jinho, et al. "FUZZIFICATION: anti-fuzzing techniques."  
*28th USENIX Security Symposium (USENIX Security 19)*.  
2019.

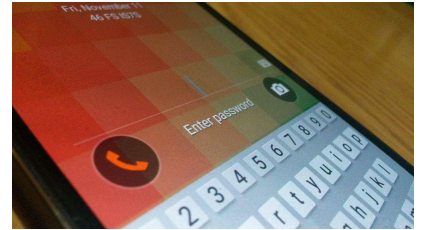


# Password Manager Security Analysis

**Supervisor**

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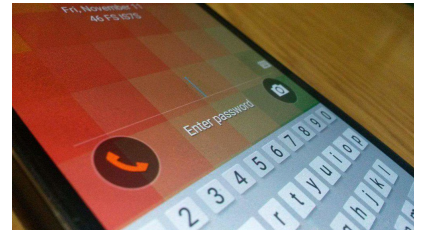
# Password Manager Security Analysis

This Project group / Lab is for those with a strong interest in applied Security. You will review an open source password manager for vulnerabilities, covering topics including:

- Web Security
- Application security
- Cryptography
- Backdoors

**This Project group / Lab is not a primer on Security.**

You should either have a Background in Security or be willing to spend additional time learning about it.



# Eigene Ideen?

**Betreuer**

jeder von uns

Email an  
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# Eigene Ideen?

Du hast ein paar eigene Ideen für ein Projekt im Bereich Usable Security and Privacy?

**GROßARTIG!**

Wir würden uns freuen, mit euch zusammenzuarbeiten!

