



Comenius University in Bratislava
Faculty of Mathematics, Physics and Informatics

THESIS ASSIGNMENT

Name and Surname: Matúš Ferech
Study programme: Computer Science (Single degree study, bachelor I. deg., full time form)
Field of Study: Computer Science
Type of Thesis: Bachelor's thesis
Language of Thesis: English
Secondary language: Slovak

Title: Application level fuzzing

Annotation: The aim of this work is to design and implement a fuzzer capable of detecting application errors by testing application inputs using application layer protocol. Analyze existing black-box fuzzing techniques, find out the advantages and disadvantages of various fuzzing implementations. Propose an architectonic solution of a black-box fuzzer with the focus on usability and utility. Implement the solution and test it against the real world software implementation. Conclude and reflect on our findings.

Supervisor: Ing. Peter Gasper
Department: FMFI.KI - Department of Computer Science
Head of department: prof. RNDr. Martin Škoviera, PhD.

Assigned: 30.10.2020

Approved: 31.10.2020
doc. RNDr. Daniel Olejár, PhD.
Guarantor of Study Programme

Student

Supervisor