Comenius University Bratislava
Faculty of Mathematics, Physics and Informatics

THESIS ASSIGNMENT

Name and Surname: Matúš Bucher
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: Analysis of a reverse shell techniques and possible countermeasures

Annotation: Analyze both established and novel methods for creating a reverse shell (making the shell accessible through an open network port) using software and resources commonly available in standard operating system installations (such as interpreters for various scripting and other languages, network utilities, etc.). For each method considered, design and implement a specific use case, and perform appropriate tests. Describe possible countermeasures. Evaluate the minimum necessary resources and configurations required for each method.

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

Assigned: 30.10.2024

Approved: 31.10.2024

doc. RNDr. Dana Pardubská, CSc.
Guarantor of Study Programme

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Student

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Supervisor