



Supervisor's statement of a final thesis

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Thesis title: Security Analysis of Data Stewardship Wizard Project
Branch / specialization: Computer Security and Information technology
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Evaluation criteria

1. Fulfillment of the assignment

- ▶ [1] assignment fulfilled
- [2] assignment fulfilled with minor objections
- [3] assignment fulfilled with major objections
- [4] assignment not fulfilled

The thesis fulfills the assignment without any objections from my side as the supervisor. The student familiarized with DSW and described its key components, features and ideas; then in a sufficient manner analyzed the security measures, determined potential threats and vulnerabilities, performed testing, evaluated it and delivered prioritized tasks for implementation.

2. Main written part

100/100 (A)

The written part is well-readable, its parts are in logical sequence based on the work progress (and also in compliance to the assignment), it contains relevant information and nothing important is missing. While reading the submitted version of the thesis, I did not spot any significant grammatical nor typographical issues that would worth mentioning and affect the grading. The thesis uses 28 bibliographical resources, mainly online and all relevant to the topic. The references are well used in the text, sometimes introduced in a relevant preface (e.g. as for Chapter 2 where the entire description is based on the article and use of the related tool which asks for citation through this paper). In terms of the extensiveness of the text, the thesis is in my opinion beyond expectations of bachelor thesis (in a positive sense).

3. Non-written part, attachments

100/100 (A)

The non-written part is composed of the DSW deployment example used for testing and security analysis and then summary of the test results. I have no objections here, in case

of this thesis these non-written parts are less significant as the procedures description as well as results are in the main written part.

4. Evaluation of results, publication outputs and awards 100/100 (A)

The practical usefulness and usability of the results is unquestionable. Well summarized issues with assigned priority already became a foundation for several improvements in the DSW open-source project even as hotfixes (e.g. fixing permissions for certain actions or using sandboxing techniques for document generation with Jinja templating engine). Moreover, it serves as a good resource for future (possibly semi-automated) analysis in DSW but also other similar projects where similar vulnerabilities may occur.

5. Activity of the student

- ▶ [1] **excellent activity**
- [2] very good activity
- [3] average activity
- [4] weaker, but still sufficient activity
- [5] insufficient activity

The student's activity was excellent during the course of working on the bachelor thesis (prepared for meetings, consulting progress, sending regular updates as agreed etc.)

6. Self-reliance of the student

- ▶ [1] **excellent self-reliance**
- [2] very good self-reliance
- [3] average self-reliance
- [4] weaker, but still sufficient self-reliance
- [5] insufficient self-reliance

The student was also great in self-reliance especially proved skilled in analytical thinking and problem solving.

The overall evaluation 100/100 (A)

Overall, I am very satisfied with the results of this bachelor thesis and grade it as excellent based on the comments above.

Instructions

Fulfillment of the assignment

Assess whether the submitted FT defines the objectives sufficiently and in line with the assignment; whether the objectives are formulated correctly and fulfilled sufficiently. In the comment, specify the points of the assignment that have not been met, assess the severity, impact, and, if appropriate, also the cause of the deficiencies. If the assignment differs substantially from the standards for the FT or if the student has developed the FT beyond the assignment, describe the way it got reflected on the quality of the assignment's fulfilment and the way it affected your final evaluation.

Main written part

Evaluate whether the extent of the FT is adequate to its content and scope: are all the parts of the FT contentful and necessary? Next, consider whether the submitted FT is actually correct – are there factual errors or inaccuracies?

Evaluate the logical structure of the FT, the thematic flow between chapters and whether the text is comprehensible to the reader. Assess whether the formal notations in the FT are used correctly. Assess the typographic and language aspects of the FT, follow the Dean's Directive No. 52/2021, Art. 3.

Evaluate whether the relevant sources are properly used, quoted and cited. Verify that all quotes are properly distinguished from the results achieved in the FT, thus, that the citation ethics has not been violated and that the citations are complete and in accordance with citation practices and standards. Finally, evaluate whether the software and other copyrighted works have been used in accordance with their license terms.

Non-written part, attachments

Depending on the nature of the FT, comment on the non-written part of the thesis. For example: SW work – the overall quality of the program. Is the technology used (from the development to deployment) suitable and adequate? HW – functional sample. Evaluate the technology and tools used. Research and experimental work – repeatability of the experiment.

Evaluation of results, publication outputs and awards

Depending on the nature of the thesis, estimate whether the thesis results could be deployed in practice; alternatively, evaluate whether the results of the FT extend the already published/known results or whether they bring in completely new findings.

Activity of the student

From your experience with the course of the work on the thesis and its outcome, review the student's activity while working on the thesis, his/her punctuality when meeting the deadlines and whether he/she consulted you as he/she went along and also, whether he/she was well prepared for these consultations.

Self-reliance of the student

From your experience with the course of the work on the thesis and its outcome, assess the student's ability to develop independent creative work.

The overall evaluation

Summarize which of the aspects of the FT affected your grading process the most. The overall grade does not need to be an arithmetic mean (or other value) calculated from the evaluation in the previous criteria. Generally, a well-fulfilled assignment is assessed by grade A.