



Supervisor's statement of a final thesis

Student: Henrich Le
Supervisor: Ing. Jiří Milota
Thesis title: Analýza a nasazení opensource nástroje FreeIPA
Branch of the study: Computer Security and Information technology

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<p><i>Evaluation criterion:</i></p> <p>1. Difficulty and other comments on the assignment</p>	<p><i>The evaluation scale: 1 to 5.</i></p> <p>1 = extremely challenging assignment, 2 = rather difficult assignment, 3 = assignment of average difficulty, 4 = easier, but still sufficient assignment, 5 = insufficient assignment</p>
<p><i>Criteria description:</i> Characterize this final thesis in detail and its relationships to previous or current projects. Comment what is difficult about this thesis (in case of a more difficult thesis, you may overlook some shortcomings that you would not in case of an easy assignment, and on the contrary, with an easy assignment those shortcomings should be evaluated more strictly.)</p> <p><i>Comments:</i> Automated deployment of centrally managed authentication and authorization of users is very useful for several environments. Assignment covers all basic topics for rollout of FreeIPA to any environment. There are several guides of how to start FreeIPA manually, but require a deep knowledge of all technologies and are very error prone. Instead of manual process, automated deployment can be much more simple and brings effort faster.</p>	
<p><i>Evaluation criterion:</i></p> <p>2. Fulfilment of the assignment</p>	<p><i>The evaluation scale: 1 to 4.</i></p> <p>1 = assignment fulfilled, 2 = assignment fulfilled with minor objections, 3 = assignment fulfilled with major objections, 4 = assignment not fulfilled</p>
<p><i>Criteria description:</i> Assess whether the thesis meets the assignment statement. In Comments indicate parts of the assignment that have not been fulfilled, completely or partially, or extensions of the thesis beyond the original assignment. If the assignment was not completely fulfilled, try to assess the importance, impact, and possibly also the reason of the insufficiencies.</p> <p><i>Comments:</i> All objectives of the assignment were fulfilled. I am missing summary chapters for each part of the thesis, which will point out, what part of assignment was fulfilled and how. All the information can be obtained from the text and attached CD, but the summary will be very helpful.</p>	
<p><i>Evaluation criterion:</i></p> <p>3. Size of the main written part</p>	<p><i>The evaluation scale: 1 to 4.</i></p> <p>1 = meets the criteria, 2 = meets the criteria with minor objections, 3 = meets the criteria with major objections, 4 = does not meet the criteria</p>
<p><i>Criteria description:</i> Evaluate the adequacy of the extent of the final thesis, considering its content and the size of the written part, i.e. that all parts of the thesis are rich on information and the text does not contain unnecessary parts.</p> <p><i>Comments:</i> The text part of the thesis is very brief and factual. Sometimes I will welcome less brief, but more technically simplified description to make the thesis more readable. On the other side, I respect the rules given by CTU.</p>	
<p><i>Evaluation criterion:</i></p> <p>4. Factual and logical level of the thesis</p>	<p><i>The evaluation scale: 0 to 100 points (grade A to F).</i></p> <p>85 (B)</p>
<p><i>Criteria description:</i> Assess whether the thesis is correct as to the facts or if there are factual errors and inaccuracies. Evaluate further the logical structure of the thesis, links among the chapters, and the comprehensibility of the text for a reader.</p> <p><i>Comments:</i> Thesis is factually correct. In Logical structure there are some minor objections. Some images are not placed on the same page they are mentioned. Missing summaries were mentioned above. Also more images describing some chapters will be welcome.</p>	
<p><i>Evaluation criterion:</i></p>	<p><i>The evaluation scale: 0 to 100 points (grade A to F).</i></p>

5. Formal level of the thesis

100 (A)

Criteria description:

Assess the correctness of formalisms used in the thesis, the typographical and linguistic aspects, see Dean's Directive No. 26/2017, Article 3.

Comments:

Thesis is formally correct.

*Evaluation criterion:**The evaluation scale: 0 to 100 points (grade A to F).***6. Bibliography**

100 (A)

Criteria description:

Evaluate the student's activity in acquisition and use of studying materials in his thesis. Characterize the choice of the sources. Discuss whether the student used all relevant sources, or whether he tried to solve problems that were already solved. Verify that all elements taken from other sources are properly differentiated from his own results and contributions. Comment if there was a possible violation of the citation ethics and if the bibliographical references are complete and in compliance with citation standards.

Comments:

Henrich Le has focused on input requirements and drill them down. He was using common solutions as possible and he avoided solving problems, that was solved by somebody else in public reachable area (google) in the time of writing the thesis.

*Evaluation criterion:**The evaluation scale: 0 to 100 points (grade A to F).***7. Evaluation of results, publication outputs and awards**

85 (B)

Criteria description:

Comment on the achieved level of major results of the thesis and indicate whether the main results of the thesis extend published state-of-the-art results and/or bring completely new findings. Assess the quality and functionality of hardware or software solutions. Alternatively, evaluate whether the software or source code that was not created by the student himself was used in accordance with the license terms and copyright. Comment on possible publication output or awards related to the thesis.

Comments:

The thesis describe deployment of FreeIPA, provides automation scripts and summarize the problems and possible solutions. With implementation of OpenID connect could this thesis reach higher state-of-the-art result.

*Evaluation criterion:**No evaluation scale.***8. Applicability of the results***Criteria description:*

Indicate the potential of using the results of the thesis in practice.

Comments:

Automation of deployment of such complex system is very useable for practice. It can serve as a template for more complex deployments, or can be used for explanation of dependencies. Smaller projects can benefit from ready-to-go solution.

*Evaluation criterion:**The evaluation scale: 1 to 5.***9. Activity and self-reliance of the student**

9a:

1 = excellent activity,

2 = very good activity,

3 = average activity,

4 = weaker, but still sufficient activity,

5 = insufficient activity

9b:

1 = excellent self-reliance,

2 = very good self-reliance,

3 = average self-reliance,

4 = weaker, but still sufficient self-reliance,

5 = insufficient self-reliance.

Criteria description:

Review student's activity while working on this final thesis, student's punctuality when meeting the deadlines and consulting continuously and also, student's preparedness for these consultations. Furthermore, review student's independency.

Comments:

Henrich was very self-reliant, He found all resources necessary resources, has own vision and consulted with me mainly the direction in which he wants to develop his thesis.

*Evaluation criterion:**The evaluation scale: 0 to 100 points (grade A to F).***10. The overall evaluation**

85 (B)

*Criteria description:*Summarize the parts of the thesis that had major impact on your evaluation. The overall evaluation **does not** have to be the arithmetic mean or any other formula with the values from the previous evaluation criteria 1 to 9.*Comments:*

Thesis goes through the FreeIPA and necessary context around it and finds a way how to automate the deployment and describe what is behind it. Samples are well prepared. Thesis has minor issues in organizing the content and do not go over the given basic scope. So I evaluate the thesis with B grade.

Signature of the supervisor: