



Review report of a final thesis

Student: Bc. Ondřej Bílek
Reviewer: Ing. Tomáš Nováček
Thesis title: Enterprise Solution for Deploying and Managing H2O Clusters on Hadoop
Branch of the study: System Programming

Date: 27. 5. 2019

<i>Evaluation criterion:</i>	<i>The evaluation scale: 1 to 4.</i>
1. Fulfilment of the assignment	<u>1 = assignment fulfilled,</u> 2 = assignment fulfilled with minor objections, 3 = assignment fulfilled with major objections, 4 = assignment not fulfilled
<i>Criteria description:</i> 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.	
<i>Comments:</i> All the criteria for this thesis were met.	
<i>Evaluation criterion:</i>	<i>The evaluation scale: 0 to 100 points (grade A to F).</i>
2. Main written part	96 (A)
<i>Criteria description:</i> 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. 26/2017, 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.	
<i>Comments:</i> The textual part of this thesis is comprehensive when the number of pages and information are taken into account. The student described everything necessary for both the theoretical and practical part. The description of the created user interface is accompanied by screenshots. There are no obvious grammatical, stylistic or factual errors.	
<i>Evaluation criterion:</i>	<i>The evaluation scale: 0 to 100 points (grade A to F).</i>
3. Non-written part, attachments	100 (A)
<i>Criteria description:</i> 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.	
<i>Comments:</i> The appendix consists of the source code of the application. The code itself is clear and well-commented. Even though the system is complex, it is well-designed and easy to use.	
<i>Evaluation criterion:</i>	<i>The evaluation scale: 0 to 100 points (grade A to F).</i>
4. Evaluation of results, publication outputs and awards	100 (A)
<i>Criteria description:</i> 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.	
<i>Comments:</i> Because the application is in production for over a year, its usability is undisputable.	
<i>Evaluation criterion:</i>	<i>No evaluation scale.</i>
5. Questions for the defence	
<i>Criteria description:</i> Formulate questions that the student should answer during the Presentation and defence of the FT in front of the SFE Committee (use a bullet list).	

Questions:

- 1) This thesis describes the implemented communication system for Python and R programming languages. How hard would it be to add support for other languages, such as Java or C#?
- 2) In the conclusion, planned UI/UX improvements and H2O ecosystem unification are mentioned. What are the proposed changes?

Evaluation criterion:

The evaluation scale: 0 to 100 points (grade A to F).

6. The overall evaluation

98 (A)

Criteria description:

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.

Comments:

This thesis is on high level. The student described everything necessary for the theoretical part and because the implemented solution is in use for a long period of time it is clear that the practical part of the thesis is also handled very well.

Signature of the reviewer: