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## OPPONENT REVIEW ON DISSERTATION

The author: **Ing. Khaled Ali Ahmed Akrir**

Name of the dissertation: **Cloud computing technology framework reducing**

Ph.D. supervisor: doc. Ing. Zdeněk Havlíček, CSc.

Opponent: doc. Ing. Tomáš Macák, Ph.D.

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### **Brief Contents**

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#### ***1. Access to result***

“Cloud” computing – a relatively recent term, builds on decades of research in virtualization, distributed computing, utility computing, and more recently networking, web and software services. It implies a service oriented architecture, reduced information technology overhead for the end-user, great flexibility, reduced total cost of ownership, on-demand services and many other things.

This dissertation thesis discusses different concepts of cloud computing risk expressed as security, compliance and business risks. The main objective of the thesis was to bring clarity and better understanding of the security associated with cloud computing, and to align perceived risks with actual risks. For this purpose was create a knowledge model based on interviews with more than sixty clouds and security experts.

In my opinion, this objective is a little bit vaguely formulated and dissertation has slightly ambitious goal. The author is restricted to the role of questionnaire survey reporter by this objective formulation.

## ***2. Relevance of achievements***

Cloud computing builds on decades of research in virtualization, distributed computing, utility computing, and, more recently, networking, web and software services. It implies a service-oriented architecture, reduced information technology overhead for the end-user, great flexibility, reduced total cost of ownership, on demand services and many other things.

In terms of the relevance of the chosen topic, I found that on the Web of Knowledge is 15,430 articles since 2010 on the "cloud computing" theme. In the Czech Republic can be expected a lower share of work at a high professional level corresponding to the dissertation. Therefore it has been chosen highly significant topic of research.

## ***3. Applicability of results***

The author's contribution lies in the ability to perform the sophisticated method using research sample of the expert population (Survey, Delphi research, Calibration Process). Thereby is ensured the reusability of the presented conclusions. Based on this approach it is possible to generalize the results published in this Ph.D. thesis.

## ***4. Concluding assessment***

Based on of the above mentioned parts of assessment, I can say that the overall feeling from the dissertation is rather positive. The author has proved his knowledge not only in the of computing technology but also in using theoretical resources and connecting them with real issues, mainly in using certain scientific models which have been used for hypothesis testing. The whole dissertation is written on appropriate expertness level.

**Dissertation on "Cloud computing technology framework reducing"  
theme I have studied and I recommend for its defense in front of the board at  
the Faculty of Economics CULS  
and after successfully mastering I recommend to award the Doctor (Ph.D.) title.**

*In terms of achievements are offered three questions:*

- 1. What tests were used for statistical hypothesis testing?*
- 2. How was designated a representative sample of respondents?*
- 3. What barriers can be expected during the implementation of theoretical knowledge (included in the dissertation) into practice?*

In Prague, August 30, 2015.



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