Posudek diplomové práce

Matematicko-fyzikální fakulta Univerzity Karlovy

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Název práce Implementation of a user-centered visualization platform for stream data
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Studijní program Informatika   **Studijní obor** Softwarové a datové inženýrství

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Text posudku:

Author of this thesis solves the problem of monitoring set of distributed applications, run as SaaS in the cluster environment. The goal is to speed up the reaction on any incident that can affect end users.

I appreciate the high effort made to analyze and design the application with the user in mind. Thanks to this approach the application can serve on different levels of detail and support users with different technical background.

Chapter 4 concerns on the functionality of the application and presents the application from the user's point of view.

According to the Chapter 5, the application is split to modules, and each module is deployed as one containerised node.

The application – even it is not fully finished and polished – was undergoing through more user tests, where internal employees should finish some goals and report their opinions.

I would suppose, that this thesis will not only present requirement analysis of the internal tool, its design and discussion of used technologies, but also presentation of existing similar solutions and comparison with them.

Therefore I have following questions:

- Are there other solutions of the real-time service monitoring of services available?

- What reasons and/or advantages has creating internal tool from scratch?

- As the Pulse runs as a service or group of services on the same infrastructure, did you think about Pulse's possibility of self-monitoring, ie. can the interface show the functionality and current utilization of sensors and other modules that monitor enterprise services and gather metrics in the system? For example, if some dashboard is currently gray (state is unknown or not available, is it a problem of corresponding service or the problem with the sensors/rules/visualization platform?

To conclude, in my opinion the author presents the thesis that in the whole meets the

requirements for the diploma thesis and therefore I recommend it for defense.

Práci doporučuji **k obhajobě.**

Práci nenavrhuji **na zvláštní ocenění.**

Pokud práci navrhujete na zvláštní ocenění (cena děkana apod.), prosím uveďte zde stručné zdůvodnění (vzniklé publikace, významnost tématu, inovativnost práce apod.).

Datum   25. června 2020 / 25 June 2020   **Podpis**