Cloud computing over the last years, has reached the business mainstream and embraced by large enterprises and yet some small and medium sized companies. Cloud vendors such as Amazon, Microsoft and Google, provide their IaaS solutions to the 'crowd', but the 'crowd' can take the situation into their own hands by using open-source solutions (OpenStack, Eucalyptus, OpenNebula etc.) to build their own private clouds. All the open-source solutions are coupled together with a dashboard that you can manage your infrastructure. But, the administrator must be tied to his desk with an open tab to the cloud in order to monitor and control it. What if he used a mobile application?

Scope of the Thesis
This thesis deals with the development of a mobile application for Android or iOS devices that enables you to instantly monitor the health of a cloud infrastructure. As a usecase the OpenStack software can be used to build a solution for. You shall investigate the emerged needs for such an application and how these are handled from the web-based dashboard of OpenStack by getting familiar with the software as well. Moreover, mockups on further capabilities can be introduced into the application that don’t exist already. The application could be developed either with native SDKs for whatever kind of device you are favor of, or can be done using web-based technologies such as HTML5, JavaScript, Ajax.

Requirements and Comments
If this thesis achieves good progress and outcome, its results could be integrated at our institute’s OpenStack testbed.

If you are interested in this or similar theses, please contact Athanasios Tsitsipas either by mail or directly in his office.

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