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System monitor APP for OpenStack cloud services

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Monitoring cloud operation is vital for system managers. The accessibility of this information is equally important. An APP, in contrast to conventional E-mail alerts, can provide instant information about the status of cloud host services. This project cooperates with InWin Development Inc. to establish a monitoring system of cloud services. The company provides public, private, and hybrid cloud computing services. In order to alleviate the current limitations of on-line operations, we have developed a smartphone APP. Through the use of OpenStack APIs, the developed APP not only displays the latest status of OpenStack shared services, but also opens PUSH notifications to alert managers in the case of emergencies. This APP features open source software, low cost development and usage, ease of use, an enriched GUI, and cross-platforms operation. The framework consists of a server and clients. A proxy server accesses the information by means of the cURL and OpenStack APIs. If problems are detected, it sends warning messages through Google cloud messaging (GCM). With respect to the client side (cloud tenants), the layout of this APP is based on HTML, CSS, JavaScript, and jQuery mobile. This allows for useful, cross-platform interfaces. In addition, it can fetch the status of cloud servers via communication with proxy server's AJAX implementation.

Biography

Tzuo-Ming Chen is a faculty member of Information Technology & Communication department in Shin Chien University, Taiwan.

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