Toward an architecture for monitoring private clouds

Cloud computing is rapidly emerging as a new model for service delivery, including for telecommunications services (cloud telephony). Although many solutions are now available, cloud management and monitoring technology has not kept pace, partially because of the lack of open source solutions. To address this limitation, this article describes our experience with a private cloud, and discusses the design and implementation of a private cloud monitoring system (PCMONS) and its application via a case study for the proposed architecture. An important finding of this article is that it is possible to deploy a private cloud within the organization using only open source solutions and integrating with traditional tools like Nagios. However, there is significant development work to be done while integrating these tools. With PCMONS we took the first steps toward this goal, opening paths for new development opportunities as well as making PCMONS itself an open-source tool.

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