Context
Cloud management is a hot topic, so hot that every established vendor and startup has some form of tool for managing cloud computing environments. There are tools that monitor, tools that provision, and tools that cross the divide between both. Several providers have products designed for cloud computing management (VMware, OpenQRM and CloudKick), along with the big players like HP, and IBM. Each uses a variety of methods to warn of impending problems or send up the red flag when a sudden problem occurs.

Scope of the Thesis
The objective of this thesis is the development of an engine introducing alerts and rules in a cloud environment and evaluate it against open source compute clouds (IaaS) i.e Openstack, Eucalyptus, OpenNebula etc. Programming knowledge is required.

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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