Abstract

The popularity of cloud computing has increased by tremendous amounts within last few years. By replacing huge amount of traditional IT infrastructure in very short time, cloud computing has brought itself to a supreme position in IT industry. Various factors such as easy availability, pay as you use model and cost effective nature of cloud computing have helped it to achieve this position. However, with the rising popularity of cloud a large number of providers have readily invested in the same. As a result of this the numbers of providers offering cloud services have increased rapidly. Thus, it becomes extremely difficult for a user to select the best cloud manually. Thus keeping the above issue in the mind, this paper proposes a framework that dynamically selects the best cloud as per user requirements and thereby removes the overhead of cloud selection from the user. The selection and ranking of clouds is done by matching user requirements with Service Level Agreements offered by different clouds according to user assigned weights.

References

- Lee Badger, Tim Grance, Robert Patt-Corner, Jeff Voas Cloud Computing Synopsis
Automatic Selection and Ranking of Cloud Providers using Service Level Agreements

and Recommendations, Recommendations of the National Institute of Standards and Technology, US Department Of Commerce, Special Publication 800-146

- Preeti Gulia and Sumedha Sood, "Comparative analysis of present day clouds using service level agreements", To be published in International Journal of Computer Application, 26th June 2013
- Preeti Gulia and Sumedha Sood, "Dynamic ranking and selection of cloud providers using service level agreements", To be published in International Journal of Advanced Research in Computer Science And Software Engineering, 26th June 2013
- Cloud SLA | Rackspace Legal | Rackspace Hosting; http://www.rackspace.com/information/legal/cloud/sla [online; accessed June2013]
- Cloud Servers Pricing by Rackspace Cloud Computing &Hosting; http://www.rackspace.com/cloud/servers/pricing/ [online; accessed June2013]
- Service Level Agreements for All Products; https://www.hpcloud.com/SLA [online; accessed June2013]
- HP Cloud Pricing; https://www.hpcloud.com/pricing [online; accessed June2013]
- Pricing|GoGrid; http://www.gogrid.com/products/pricing [online; accessed June2013]
- Cloud Hosting Service Level Agreement| OpSource; http://www.opsource.net/Services/Cloud-Hosting/Service-Level-Agreement [online; accessed June2013]
- NephoScale Service Level Agreement| NephoScale; http://www.nephoscale.com/service-level-agreement [online; accessed June2013]
- BareMetal Dedicated Servers | NephoScale; http://www.nephoscale.com/dedicated-servers [online; accessed June2013]
- TOS; http://bitrefinery.com/tos [online; accessed June2013]
- Cloud Services Pricing; http://bitrefinery.com/cloud-hosting/pricing [online; accessed June2013]
Automatic Selection and Ranking of Cloud Providers using Service Level Agreements

- "SLAs|savvisdirect" http://www.savvisdirect.com/slas [online; accessed June 2013]
- "Joyent Cloud Compute Pricing - Products - Joyent" http://joyent.com/products/joyent-

**Index Terms**

Computer Science

Cloud Computing

**Keywords**

Business Level Objectives  Cloud Computing  Service Level Agreement