Abstract

Cloud computing is one of the upcoming latest technology which has been developing drastically. Today lots of business organizations and educational institutions using Cloud environment. But one of the most important thing is to increase the Quality of Service (QoS) of the system. The cloud environment is divided into two parts mainly, one is Cloud User (CU) and another is Cloud Service Provider (CSP). CU sends service requests to the CSP and all the
requests are stored in a Request Queue (RQ) inside CSP which directly communicates with Smart Job Scheduler (SJS). SJS communicates with Resource Pool (RP) and tries to assign each of these jobs as per there requirement to the Resources. The main purpose of SJS is to optimal assignment of the tasks in the RP. This particular procedure is called Task Assignment Approach (TAA). The main objective of this topic is to depict one particular model of CSP and two algorithms related to TAA, one of them is Serial Task Assignment Approach (STAA) and another one is Optimal Task Assignment Approach (OTAA).

References

- “Virtual Infrastructure Management in Private and Hybrid Clouds” by Borja Sotomayor, Rubén S. Montero and Ignacio M. Llorente, Ian Foster 1089-7801/09/$26.00 © 2009 IEEE
- “Research on Distributed Architecture Based on SOA” by Hongqi Li, Zhuang Wu 978-0-7695-3522-7/09 $25.00 © 2009 IEEE 670-674
- Hock, N.C., Queueing Modelling Fundamentals. JOHN WILEY&SONS, 1997
- “An Approach to a Cloud Computing Network” by Francesco Maria Aymerich, Gianni Fenu1, Simone Surcis 978-1-4244-2624-9/08/$25.00 ©2008 IEEE 113 page 113-118
- “Service Performance and Analysis in Cloud Computing”, Kaiqi Xiong and Harry Perros 2009 Congress on Services –I
- “Distributed Operating System Concept and Design - Pradeep K. Sinha; PHI publication.

Index Terms
Keywords
Cloud computing  Quality of Service  Cloud User  Cloud Service Provider  Request  Queue  Smart Job Scheduler

Resource Pool

Task Assignment Approach

Serial Task assignment Approach

Optimal Task Assignment Approach