Abstract

Cloud Computing is emerging as the next generation platform which would facilitate the user on pay as you use mode as per requirement. The primary aim of Cloud Computing is to provide efficient access to remote and geographically distributed resources with the help of Virtualization in Infrastructure as a Service (IaaS). We need different kind of virtual machines (VM) as per the requirement and cloud provider provides these services as per the Service Level Agreement (SLA) to ensure QoS. For managing large amount of VM requests, the cloud providers require an efficient resource scheduling algorithm. In this paper, a comparative study has been made for different types of VM scheduling and provisioning algorithms and are briefly discussed and analyzed. Then we can conclude that one of these algorithms is batter for scheduling and provisioning with the perspective of cost and security of VMs.
Comparison of Virtual Machine Scheduling Algorithms in Cloud Computing

References

- Marc E. Frincu, St’ephane Genaud and Julien Gossa, "Comparing Provisioning and Scheduling Strategies for Workflows on Clouds"; 2013.
- Rodrigo N. Calheiros, Rajiv Ranjan, Anton Beloglazov, Cesar A. F. De Rose and Rajkumar Buyya, "CloudSim: a toolkit for modeling and simulation of cloud computing environments and evaluation of resource provisioning algorithms"; Published online 24 August 2010 in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/spe.995.
- J. Rouzaud-Cornabas, "A trust aware distributed and collaborative scheduler for virtual machines in cloud"; 2011.
- Jeongseob Ahn, Changdae Kim, Jaeung Han, Young-ri Choi, and Jaehyuk Huh, "Dynamic Virtual Machine Scheduling in Clouds for Architectural Shared Resources"; 2011.

Index Terms

Computer Science Algorithms
Keywords

Cloud Computing  VM Scheduling and Provisioning  Resource Overuse
User’s perspective

Trust between VMs