A Survey on Different VM Scheduling Approach in Cloud Computing Environment

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 136
Number 9
Year of Publication: 2016

Authors:
Prafulla Chakankar, Nishchol Mishra, Sanjeev Sharma

10.5120/ijca2016908552

Abstract

Cloud is the one of the fastest emerging technology in the IT world. Its supply on-demand IT resources to the client on the rent basis. In a very short time demand for the computing resources is increasing dramatically. To accomplish this demand virtualization approach is used which allow the sharing of physical resources. PM is virtualized by using the hypervisor that creates the VM according to the user need and assign to the users. Each user has its own VM and number of VM is running in single physical machine. As the size of the datacenter is increases, it can serve the more and more users but it will also introduce some issues that have to resolve for the proper utilization of the cloud services. Resource scheduling or the proper distribution of the physical resources is one of the critical issues in the cloud. Proper resource distribution can not only maximize the throughput but also increase the resource utilization of the physical machine. Resource scheduling is a challenging task in the cloud because user requirement for the resource can change dynamically. Various techniques have been proposed during the last decade in the field of resource scheduling. This paper discussed some of the existing resource scheduling algorithm with their anomalies.
References


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Index Terms

Computer Science

Distributed Systems

Keywords

Cloud computing, virtualization, migration, resource scheduling, load balancing.