



Comparison of Resource Scheduling Algorithms in Cloud Computing Environment

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Abstract

Cloud Computing is a parallel distributed system that consists of large scale of interconnected and virtualized computers based on service-level agreements which are established through negotiation between service providers and consumers. The cloud platform supports flexible application to manage limited virtual machines and computing servers to application services at a given instance of time. Scheduling is a process that maps and manages execution of inter-dependent tasks on distributed resources. Proper scheduling has significant impact on the performance of the system. Many scheduling algorithms have been proposed and implemented in the Cloud environment. In these computing there are many tasks required to be executed by the available resources to achieve the best performance, minimal total time for completion, shortest response time, utilization of resource usage and so on. Hence, scaling application's capacity becomes complicated, at which, number of requests overshoots the cloud's capacity. In this paper various resource scheduling algorithms are discussed and compared taking the parameters into consideration.

Keywords: Cloud Computing; Resource Scheduling; Virtualization

Full text: <https://sites.google.com/a/ijrit.com/papers/home/V1I1106.pdf>