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An Analysis of Virtual Machine Scheduling Algorithms in Cloud Computing

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Abstract: *Cloud computing is a paradigm that facilitates instantaneous, convenient, and ubiquitous network connectivity to a repository of configurable computing resources, including but not limited to servers, storage, applications, and services. As evidenced by the fact that these resources can be provisioned and released promptly with minimal management effort or service provider interaction, the use of cloud computing is currently expanding at an accelerated rate. Thus, achieving a balance between the cloud and its resources in order to provide improved performance and services to the cloud's end users while simultaneously ensuring that the majority of users are served by application deployments in the cloud provider's environment has become an essential concern. Load balancing in cloud computing entails distributing the workload across three critical phases of request processing. This consists of task scheduling and virtual machine selection at the designated data center. This paper is predominately concerned with the algorithms and techniques that are accessible for the administration of virtual machines. In addition, it provides a transparent view of their attributes for addressing accumulated burden in an effective virtual machine management system*

Keywords: Virtual Machine Scheduling, Cloud Computing

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