



Associate Scheduling of Mixed Jobs in Cloud Computing

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Abstract

In a cloud environment, the jobs are scheduled based on different constraints so as to complete the job within its deadline. However, the classical scheduling algorithms have focussed on processing the compute-intensive and data-intensive job independently. So, simultaneous processing of compute-intensive and data-intensive jobs is a challenging task in a cloud environment. Hence, this paper proposes a new technique called Associate Scheduling of Mixed Jobs (ASMJ) that will concurrently process compute-intensive and data-intensive jobs in a two-tier VM architecture using the sliding window technique to improve processor utilization and network bandwidth. The experimental results show that the proposed ASMJ improves the processor utilization, QoS, user satisfaction and network bandwidth compared with the existing techniques.

Keywords

Cloud computing Job scheduling Compute-intensive Data-intensive

Associate scheduling of mixed job

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Cloud computing Job scheduling Compute-intensive Data-intensive Associate scheduling of mixed job. This is a preview of subscription content, log in to check access. References. Mell, P., Grance, T.: The NIST Definition of Cloud Computing. NIST Special publication, pp 800–145 (2011) Google Scholar. 4. We systemize the scheduling problem in cloud computing, and present a cloud scheduling hierarchy. Keywords: Cloud computing, Cloud Architecture Load balancing, queuing system, scheduling, Workflows. 1. Introduction. Cloud computing is rising as the next generation platform for computation. May be in future Cloud computing will be the main platform to save the world; this makes people can have everything they need on it. Main advantages of the Cloud computing is used for on-demand gathering of information, technology services and products. The name Cloud has come from the Internet, based on how Dynamic Job Scheduling Strategy Using Jobs Characteristics in Cloud Computing. by Mohammed A. Alsaih 1,* , Rohaya Latip 1,* , Azizol Abdullah 1, Shamala K. Subramaniam 1 and Kamal Ali Alezabi 2. 1. Formerly, several models including reservation, migration, and replication heuristics have been implemented to solve this concern under a variety of scheduling techniques; however, they have some undetermined obstacles. This paper proposes a dynamic job scheduling model (DTSCA) that uses job characteristics to map them to resources with minimum execution time taking into account utilizing the available resources bandwidth fairly to satisfy the cloud users quality of service (QoS) requirements and utilize the providers'™ resources efficiently. Cloud Computing is hotspot for business institutions and research institutions, in last few years. It is mainly about how the computing resources are virtualized, and with scheduler the resources in the logical integration, focus on how to deal with data center resources virtualization, and user submitted to the mission needs and resources to maximum utilization rate for the user to provide services, The study data center of the services they provide types and service mode, How to. efficiently schedule user's™ tasks, reasonable distribution system resources, to realize the resource load balance Job scheduling basically implies mapping jobs to the available ingredient resources in cloud computing environment. Before scheduling, we need to do resource provisioning. Provisioning means formally allocation of the resources for the execution of any application. Answered August 15, 2018 Author has 679 answers and 921.6K answer views. To add to this, you might find real user reviews for all the major job schedulers on IT Central Station to be helpful. As an example, this user writes in his review of Control-M, "Ninety percent or more of the batch processing is now centralized into a single scheduling platform. This helps the support teams so that they only need to go to one group for scheduling and monitoring the batch processing."