EDLT: An Extended DLT to Enhance Load Balancing in Cloud Computing

Abstract

In recent years, cloud computing has gained prominence and most companies are applying some kind of cloud computing technology in their company or part of it. Growing number of clients who are willing to use cloud services has made load balancing an eminent challenge in this field. A general approach to load balancing is the application of Divisible Load Theory (DLT). In DLT, the workload is divided among master systems. For their turn, master systems divide the load among their slave systems. This article presents an enhanced technique for load balancing based on DLT. Simulated results indicate that the expanded DLT reduces measurement/report time and shows an improved performance at a lower failure rate.

References

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- Ram Prasad Padhy, P Goutam Prasad Rao LOAD BALANCING IN CLOUD COMPUTING SYSTEMS, India May, 2011, Rourkela-769 008, Orissa.
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Index Terms

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Keywords

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