Providing a Cloud Broker-based Approach to Improve the Energy Consumption and Achieve a Green Cloud Computing

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Abstract

Today's, cloud computing has been widely accepted in the industry. With the increasing popularity of cloud computing, many users and companies want to use and offer cloud computing services. The growth of cloud computing services may lead to consume a huge amount of energy and emit considerable amount of carbon dioxide. In recent years raising concerns about global warming and environment impact of greenhouse gases emission has led many researchers to engage in research in the field of green and energy aware computing. In this paper, "two phase carbon aware cloud broker" has been proposed that attempt to minimize energy and carbon by considering the energy and carbon efficiency of data centers.

References


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Index Terms

Computer Science

Distributed Systems
Keywords

Cloud computing, carbon emissions, energy aware.