VIRTUALIZED CLOUD OPTIMIZER FOR PREDICTING CLOUDLETS

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Abstract

Virtualization is one of important factor in cloud computing to select the cloud service and model. Different cloud applications are providing services at platform level and it varies depending upon application services. Load balancing is major issue while accessing the resources. Cloudlet is the device or machine or computing tool to access the resources when it is required. Optimizer is required to predict the user profile based on active user and cloud service. In this research the proposed method model identifies a solution for efficient load balancing by considering factors such as processing time, response time to reduce carbon footprint in the cloud computing environment The Proposed algorithm is based on genetic algorithm Ant colony optimization which uses path cost and threshold. The major components are User Base, Data center selector, Virtual Machine (VM) selector and allocator and Efficiency analyzer. In this work we provide virtualized Cloud Optimizer for selecting the cloud services and rank the Cloudlets. The experiments are done by using CloudSim and dataset is selected from UCI Repository.

Keywords: *cloudlet, optimizer, load balancer, virtualization, ranking*