Abstract

Load balancing in cloud computing is a grand challenge problem now a days. The main load balancing issues in cloud computing is load calculation and load distribution. To solve these issues, many load balancing techniques have been designed to distribute tasks properly. In this paper, we have proposed a Load Balancing Technique for Virtualization and Fault Tolerance in Cloud Computing (LBVFT) to assign the tasks to the virtual nodes. A Cloud Manager (CM) module and a Decision Maker (DM) are used in the proposed scheme to manage the virtualization, load balancing and to handle the faults. LBVFT is mainly designed to assign tasks to the virtual nodes depending on the success rates (SR) and the previous load history. In the load assigning technique assignment is done by the load balancer (LB) of cloud manager (CM) module in the basis of higher success rate and lower load of the available nodes.

References


**Index Terms**

Computer Science  
Distributed Systems

**Keywords**

LBVFT  
VFT  
Cloud Manager  
Decision Maker  
Fault handler  
Success Rate
Load