Abstract

Consummation of the service providing with fulfilling the users QoS requirements and satisfying the service's provider, is considered a vital challenge for resource provisioning process. The QoS requirements usually have two main parameters that are needed to be optimized (i.e. minimizing service's response time, and total paid cost). On the other hand, the provider has the right to gain a profit for delivering the service. A modified algorithm based on an existed one called RPOA algorithm has been introduced to solve this problem. This modified algorithm is called The RPOA With Load Balance (RPOAWLB). According to the RPOAWLB algorithm, good utilization and load balance between resources capacities have been satisfied. This has been done by maximizing the resources utilization, and free up the low loaded resources. Therefore, this proposed algorithm provides the provider a chance to reallocate the free resources with new workloads.
Index Terms

Computer Science

Information Sciences

Keywords

Cloud computing  Resource Provision  Load Balance