Abstract

In recent years a new concept of IT organization emerged, the Cloud Computing. With this new concept, the resources are dynamically scalable, virtualized and provided to users as a service on the Internet. It is primarily intended to meet the demands of users and allow them access to virtually unlimited resources. This model motivates many academic institutions and non-academics as well to develop open-source solutions to improve performance. Among these techniques, dynamic reconfiguration of cloud resources has to take an interest. In this paper an approach for optimization resources is presented, based on dynamic reconfiguration techniques. In fact, a Dynamic Reconfigurable Component (DRC) is proposed to be added to the cloud system, that optimize the use of cloud resources and enable dynamic resource allocation. Then, the implementation of this DRC component is provided.
- Fei Xu, Fangming Liu, Linghui Liu, Hai Jin, and Bo Li. iaware: Making live migration of virtual machines interference-aware in the cloud. 2013.

Index Terms

Computer Science                       Distributed System

Keywords

Cloud computing  Dynamic reconfiguration  Openstack  Dynamic Reconfigurable Component Autoscaling KPI