

عنوان مقاله:

Improving resource management of IaaS Providers in Cloud Federation

محل انتشار:

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خلاصه مقاله:

With daily increasing use of cloud services, saving energy and using needed resources regardless of time and place, for both providers and users, have great importance. Resource provisioning in Cloud providers is a challenge because of the high variability of load over time. Most cloud providers conduct requests with a limited amount of resources that may be cause to reject the request of customers at the peak of workloads. Federated cloud is a mechanism for sharing resources thereby increasing scalability. Allocating resources in cloud is a complex procedure. Today with development of cloud-based data centers and increasing demand for cloud services, the main problems are high energy consumption and the profit of the services. In this paper, we propose an approach to reduce power consumption in data centers and increase profits for the satisfaction of service providers offering cloud services. The proposed approach is offered based on a real model for cloud federation. Experimental results show that the proposed approach, compared to the other similar approaches, causes to increase utilization and turns off idle servers .to decrease consumed power which followed by an increase in providers' profit

کلمات کلیدی:

Cloud computing; cloud federation; IaaS provider; power consumption

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