Abstract

Cloud computing refers to Internet based distributed computing where the physical resources are pooled at one end and users across the globe can have access to unlimited resources as pay-as-you-go utility computing model. Cloud service users requests computing resources and cloud service provider provides them as virtual machine (VM) instances. The problem addressed here is dynamic VM creation and allocation which benefit users in terms of response time and Cloud Service Providers (CSP) in terms of reduced energy and management cost by increasing the utilization of physical resources which are powered up for the time being and reduce the number of machines which need to be turned on. The proposed system include a demand forecast module which helps provisioning sub system, that manages the dynamic provisioning, in VM creation and management decisions.

References

- T. Chieu and H. Chan, Dynamic resource allocation via distributed decisions in cloud

**Index Terms**

Computer Science  Distributed Systems

**Keywords**

Cloud Computing  Resource Provisioning  IaaS  Resource Allocation  Policy