Abstract

There is huge amount of information available and maintaining such a data will require lot of computational power and the solution for these issues is to provide a system with more flexible, reliable and scalable characters. Cloud based orchestration services support the users any time and also can be scaled based on the demand for resources. Demand and delay are directly proportional to each other and if the duration of the delay is exponential then the cost also is also exponential. Performing a balance act between the quality of service and energy consumption rate is proposed by the algorithm. Each of the data center used in the cloud have set of virtual machines. In order have better processing of data consolidation of virtual machines is done. The proposed method is built on a fuzzy logic with consolidation framework. The method filters the virtual machine from an overloaded host and the migration control mechanism build into the system helps in increasing the performance for the selection process. Three characteristics namely mean, standard deviation and media are taken to compute the overload ratio due the selection process to improve optimization.
References

17. Y. Tao and S. Yu, "kFHCO: Optimal VM Consolidation via k -Factor Horizontal Checkpoint Oversubscription," 2019 International Conference on Computing, Networking and
Communications (ICNC), Honolulu, HI, USA, 2019, pp. 380-384.


Index Terms

Computer Science  Circuits and Systems

Keywords

Virtual Machine Consolidation