Abstract

The cloud based distributed data center uses virtualization technology to share the resources to the outside world through a virtual machine. Cloud administrator selects the data center to access virtual machines by using administrative and dynamic policies. Every data center has multiple virtual machines. Selection of data center is an important task which affects on performance as well as cost effectiveness of the data center. This problem can be solved by centralized as well as distributed data center. In Logistics Company, Centralized data center faces bottleneck in operations like virtual machine migration, creation, deletion, and needs to contact central administrator which can increase the negligible amount of network traffic. The paper presents comparison of distributed and centralized data center and strategies of distributed data center for reducing the latency and cost of selection of data center over the cloud by proposing an algorithm distributed service broker policy (DSBP) for logistics information system.


3. Maurice Bolhuis, A Comparison between Centralized and Distributed Cloud Storage Data Center Topologies, 19th Twente Student Conference on IT, June 24, 2013, Enschede, The Netherlands.


Index Terms

Computer Science, Distributed Computing

Keywords

Centralized & Distributed Data Center, Distributed data Center for Logistics, Selection and Scheduling policy Algorithms, DSBP
A New Algorithm for Improving Latency in Distributed Data Center for Logistics Information System over Cloud