Abstract

Migration of virtual machine is one of the most important features in virtual machine technology. It involves moving a VM from a physical host to another, facilitating balancing load, utilization of resource and reducing energy consumption. The goal of this paper is to present a survey of the main types of virtual machine live migration, their classifications and a comparative study of these techniques in a particular class. It also discusses the algorithms used in virtual machine migration.

References

2. Sun, Gang Liao, Dan Anand, Vishal Zhao, Dongcheng Yu, Hongfang Yu, 2016, “A New
Survey Study of Virtual Machine Migration Techniques in Cloud Computing

Technique For Efficient Live Migration Of Multiple Virtual Machines”, Future Generation Computer Systems, Production and hosting by Elsevier.


9. Kapil, Divya; Pilli, Emmanuel S.; Joshi, Ramesh C., 2013 . Live virtual machine migration techniques: Survey and research challenges


12. Lei, Zhou Sun, Exiong, 2017, A Novel Hybrid-Copy Algorithm for Live Migration of Virtual Machine, Future Internet, Scopus


15. Nakrani, S. Tovey, Craig, 2004 “On Honey Bees and Dynamic Server Allocation in Internet Hosting Centers “, Adaptive Behavior, SCI index.


19. parvin ahmadi doval amiri, shayan zamani rad, faramarz safi isfahani , October 2016 “Providing A Solution To Improve Pre-Copy Method For Migrating Virtual Machines In cloud infrastructure” jatit, Elsevier SCOPUS.

dynamic migration of virtual machines in cloud computing”, IEEE Transactions on Services Computing
25. Hu, Liang; Zhao, Jia; Xu, Gaochao; Ding, Yan; Chu, Jianfeng, 2013, HMDC: Live virtual machine migration based on hybrid memory copy and delta compression, Applied Mathematics and Information Sciences

Index Terms

Computer Science Distributed Systems

Keywords

Hypervisors, Virtual Machines, Live Migration, Pre-Copy, Post-Copy, virtual machine migration