Balanced Resource Utilization based Cloud Hosting Along With Server Consolidation

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Abstract

In the cloud surroundings, resources (computing and data) stored in the datacenter are accessed on-demand by number of customers jointly. So there should be a mechanism that Maximize system performance, consumption of remaining resources (optimization) and minimize the resource leak, energy consumption (Server consolidation), but in these cloud computing domain resources are extremely dynamic and holistic in nature. By cause of this nature, full utilization of the resources is very difficult without the suited resource balancing. To improve the overall system performance, resources must be properly allocated; Load uniformly distributed on physical machines and the proper virtual machine (VM) allocation method must be used. Various virtual machines (VM) allocation method have been proposed for reducing the response time, resource handling and balancing of load in a datacenter environment but they are not efficient to minimizing the Energy Consumption and Server consolidation This paper includes some traditional VM scheduling techniques with their inconsistency.

References
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Index Terms

Computer Science
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Keywords

Scheduling, Load Balancing, Virtualization, cloud datacenter.