Abstract

Cloud computing is an upcoming, novel, realistic paradigm to host and deliver internet services. Cloud computing helps to plan accurately for provisioning of hardware or software and also eradicates the need of high-priced computing hardware and maintenance. Using virtualization, clouds handle shared collection of physical resources in a huge user base having differing requirements. Hence, clouds are substitute for grids, clusters and supercomputers, but in challenging scientific computing workloads virtualization leads to performance penalties. This paper investigates cloud performance analysis under different Virtual Machine (VM) capacity. VM parameters like RAM and processors number are varied, and resource allocation, CloudSim debt and VM percentage used are also studied.

References


**Index Terms**

Computer Science

Information Sciences

**Keywords**

Cloud Computing  Virtualization  Virtual Machines  Cloudsim Debt