Abstract

Cloud computing environment is referred as a collection of services which are delivered via the Internet. It depends upon sharing of resources to maximize the utilization of shared resources, and to achieve consistency and economies of scale. Resource management is very important for every system. Performance, functionality and cost are the three basic factors that are affected by resource management for system evaluation. Cloud resource management means to allocate and schedule computing resources. In this paper, various resource allocation and scheduling strategies are considered that helps in achieving high resource utilization and users demands. Various resource allocation strategies that are discussed in this paper are based on various parameters such as: location, time, topology, applications, hardware, priority, QoS etc. to meet the needs of cloud application. Similarly, scheduling strategies are based on parameters: cost, time, location, QoS, priority, load-balancing etc. to achieve high performance computing and best system throughput.
Paradigms: P2P, Grid, Cluster, Cloud, and Jungle;


- Christopher Clark, Keir Fraser, Steven Hand, Jacob Gorm Hanseny, Eric July, Christian Limpach, Ian Pratt, and Andrew Warfield, "Live Migration of Virtual Machines"; 2nd Symposium on Networked Systems Design and Implementation, 2005.
- Mrs. S. Selvarani and Dr. G. Sudha Sadhasivam, "Improved Cost-Based Algorithm for Task Scheduling in Cloud Computing", IEEE, 2010.
- Laiping Zhao, Yizhi Ren, and Sakurai, K., "A Resource Minimizing Scheduling Algorithm with Ensuring the Deadline and Reliability in Heterogeneous Systems", IEEE,
From Concept to Algorithmic Implementation: Optimized Sharing of Resources in Cloud Computing Environment

2011.

Index Terms

Computer Science
Distributed Systems

Keywords
Cloud Computing
Resource Management
Resource Allocation Strategies
Scheduling Strategies

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