Abstract

Cloud computing is one of the hottest word in IT world and it having huge demand in these days. Some big IT companies like Google, IBM, Microsoft, Amazon, Yahoo and others develop cloud computing systems and products related to it for customers. But still customers are having difficulties for adopting the cloud computing, that is only because of the security issues exist in it. Cloud Computing is collection of large number of resources like hardware and software that are provided by the cloud providers to the consumers as a service over the internet. In cloud computing every task requires to be executed by available resource to achieve minimum waiting time, reduce makespan, best performance and maximum utilization of resources. To achieve these requirements we proposed an efficient scheduling algorithm which will work effectively to provide better result as compared with the traditional scheduling approaches. For this CloudSim framework is used to simulate the proposed algorithm under various conditions and presented the better results with reduced the waiting time and processing time with optimum resource utilization and minimum overhead for the same.

References
- Soni Vishnu Kant, Sharma Raksha, Mishra Manoj Kumar, Das Sarita &quot;Constraint-Based Job and Resource scheduling in Grid Computing&quot; 2010 IEEE, pp. 334-337.

Index Terms

Computer Science
Algorithms

Keywords

Cloud Computing  Task Scheduling  Task Grouping  SA Algorithm