Enhancing Cloud Computing Scheduling based on Queuing Models

Abstract

This paper presented a proposed model for cloud computing scheduling based on multiple queuing models. This allowed us to improve the quality of service by minimize execution time per jobs, waiting time and the cost of resources to satisfy user's requirements. By taking advantage of some useful proprieties of queuing theory scheduling algorithm is proposed to improve scheduling process. Experimental results indicate that our model increases utilization of global scheduler and reduce waiting time.

References

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551-556.


- Amazon. com, "Elastic Compute Cloud (EC2)."


- Integrating MATLAB, Simulink and State flow Components in a SimEvents odel: www.mathworks.com/wbnr15638


Index Terms

Computer Science Distributed Computing
Keywords
Cloud computing; Queuing models; Scheduling process.