

49. COST EFFECTIVE AUTOMATED SCALING OF WEB APPLICATIONS FOR MULTI CLOUD SERVICES

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Automatic scaling property can benefit many internet applications where their resource usage can be scaled up and down automatically by the cloud service provider. We present a system that provides automatic scaling for Internet applications in a multi cloud environment. A Skewness and Apriori algorithm is developed for achieving good demand satisfaction ratio. We also evaluate the performance analysis of common cloud server using queuing systems and load distribution. To obtain accurate estimation of the performance indicators. The model allows cloud operators to determine the relationship between the number of servers and input buffer size, on one side, and the performance indicators on another side. It supports green computing by avoiding idle state for a server. Common cloud server continuously schedules task for every server. Load will be balanced by the skewness algorithm. Our experimental results demonstrate that our system can improve the throughput by 190% over an open source implementation of Amazon EC2.

Index Terms- Cloud Computing, Auto scaling, Green Computing, Resource allocation and Load Balancing.

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