

ANALYZING LARGE-SCALED APPLICATIONS IN CLOUD COMPUTING ENVIRONMENT

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ABSTRACT

Cloud computing has snatched a large amount of consideration from all over the globe, because of its highly demanding features. It has evolved as a new platform, providing computing as a utility service to all its users. We are particularly concerned about applications built using the cloud computing paradigm, where data is maintained and processed in multiple datacenters. These datacenters are located in geographically distant regions. Some popular examples of such applications include Facebook, Yahoo, Google Apps, etc. Workload distribution in such large-scaled applications are very important from the view of the system's performance. Geographical location of the datacenters and the user groups provides a major framework for Cloud Service Providers (CSPs) to distribute load among different servers in datacenters. In this paper, we have discussed some important issues which must be considered while developing large-scaled application using cloud technology. This paper also gives an insight upon three load balancing policies in combination with various broker policies, so as to choose the best combination according to the choice of different Cloud Service Providers in case of large-scaled applications. Overall analysis has been done using CloudAnalyst [5].

KEYWORDS: CloudAnalyst, Cloud Computing, Load Balancer, Load Balancing, Service Broker