

Cloud Computing: Applications and Paradigms

The efforts to support large-scale distributed computing have encountered major difficulties over the years. The users of these systems discovered how difficult it was to locate the systems able to run an application. They soon realized that it is equally difficult to scale up and down to accommodate a dynamic load, to recover after a system failure, and to efficiently support checkpoint or restarting procedures.

At the same time, the providers of computing cycles and storage realized the difficulties in managing a large number of systems and providing guarantees for the quality of service. Any economic advantage offered by resource concentration was offset by the cost of management and the relatively low utilization of costly resources.

Cloud computing is very attractive to users for several economic reasons: It requires a very low infrastructure investment because there is no need to assemble and maintain a large-scale system and it has low *utility-based computing costs* because customers are only billed for the infrastructure used. At the same time, users benefit from the potential to reduce the execution time of compute-intensive and data-intensive applications through parallelization. If an application can partition the workload in n segments and spawn n instances of itself, the execution time could be reduced by a factor close to n .

Moreover, because application developers enjoy the advantages of a *just-in-time infrastructure*, they are free to design an application without being concerned with the system where the application will run. Often, an application becomes the victim of its own success, attracting a user population larger than the system can support. Cloud elasticity allows such an application to absorb the additional workload without any effort from application developers.

Cloud computing is also beneficial for the providers of computing cycles because it typically leads to more efficient resource utilization. The future success of cloud computing rests on the ability of companies promoting utility computing to convince an increasingly large segment of the user population of the advantages of network-centric computing and content. This translates into the ability to provide satisfactory solutions to critical aspects of security, scalability, reliability, quality of service, and the requirements enforced by SLAs.

The appeal of cloud computing is its focus on enterprise applications. This clearly differentiates it from the grid computing effort, which was largely focused on scientific and engineering applications. Of course, the other major advantage of the cloud computing approach over grid computing is the concentration of resources in large data centers in a single administrative domain.

It is expected that utility computing providers such as Amazon, Apple, Google, HP, IBM, Microsoft, Oracle, and others will in the future develop application suites to attract customers. Microsoft seems well positioned in the effort to attract customers to its Azure platform since it already has many applications for enterprise customers, while Red Hat and Amazon may choose to stay with their “infrastructure only” approach [27].

Chapter 4 Cloud Computing Applications And Paradigms

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