

The Role of Service Providers on Cloud Computing Technology for a Sustainable Computer Network

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Abstract

The Quality of service (QoS) is the overall performance of a networking system of telephonic system and Communication technology particularly the performance seen by the users of the network .To quantitatively measure quality of service, several related aspects of the network service are often considered, such as error rates, bandwidth, throughput, transmission delay, availability, jitter, etc. Quality of service is particularly important for the transport of traffic with special requirements. In particular, much technology has been developed to allow computer networks to become as useful as telephone networks for audio conversations, as well as supporting new applications with even stricter service demands. Cloud made it easy for an organization to increase its capability without actually adding new infrastructure, new software or updating existing technology; as it is Internet based system for providing services to the end users on pay per usage basis. Cloud computing reduces cost of computation & storage to a large extend and also improves productivity. From few days cloud has grown from a promising business application to fastest growing IT industries .Cloud offers services such as storage, computation & applications etc for different types of markets such as health care, net banking, several government organizations and other financial applications. Now many popular educational institutes and enterprises are also getting their applications and data shifted to the cloud. In this invited research article we summarize different classifications and service models of the cloud. In further sections major characteristics and working of cloud is discussed. Next section discusses the general implementation requirements for cloud computing. Also its comparison with the Grid computing is mentioned in next part. Like other online applications cloud computing security also has several downsides. In the last sections major benefits and downsides of cloud computing technology has a wide range of application in every sector of service providers.

Keywords

Cloud Computing Technology (CCT), Security Services (SS), Computational Transparency (CT), Private- Public- Community (PPC), Hybrid –Transparent (HT),