Cloud Computing and Applications

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Abstract: One of the most important and highly useful invention in the technical advancement is cloud computing. It facilitates its services in almost all sectors based on computer applications. For instance, in a present pandemic situation caused by COVID-19, most of the companies, organizations, business firms of both private and government sectors throughout the globe are using the cloud computing applications for smooth running of their activities. In particular, the online teaching tools are playing major role in the educational system. The application of cloud computing is not limited to a particular sector, it covers almost all sectors. So, in this context, an overview of cloud computing and its applications are discussed in present article.

Keywords: Cloud computing, application of cloud computing

1. Introduction

Cloud computing is the way to access computing technique through internet. It consists of both software and hardware services. It facilitates the user to access from anywhere in the world through the internet services. So, most of the industries, companies and academic institutions are adopting cloud computing technique to offer work from home to their employees. Also, its main objective is to reduce the organizational expenditure and to provide the online services to the user round the clock throughout the week.

Cloud computing was first invented by Joseph Carl Robnett Licklider in the year 1960. It is originated from the cloud symbol used by flow charts and diagrams to symbolize the internet. Recently, Porumb *et al*. 2011 introduced the cloud computing and its application to blended learning in engineering. Mahmud *et al*. 2020 developed that profit-aware application placement for integrated Fog–Cloud computing environments. After that, Kim *et al*. 2020 proposed a new application task offloading algorithm for edge, fog, and cloud computing paradigms. Next, Ahmed *et al*. 2020 discuss the comparison among cloud technologies and cloud performance. The author