Cloud based Framework for Secure Sharing of Medical Reports

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Abstract

Cloud computing has recently emerged as a new paradigm for hosting and delivering services over the Internet which define the shape of a new era. Cloud computing is the changing way to store, compute and use the data and resources which are stored on the remote servers due its properties such as it provides robustness, on-demand self-service, measured resources, broad network access and low cost. But data leakage, insecure interface and sharing of resources are the major issue that prevents users from storing files on the cloud. Everyday extensive amount of data is generated in multi-specialist hospitals. This article presents various techniques to protect electronic medical reports (EMR) in various forms like images, videos or documents etc. stored on cloud. If doctors of various specializations want to view the reports it will be easy for them if those are placed on the cloud. This will also help patient in not carrying the prescriptions or big size reports. This article addresses these issues by proposing Advanced Encryption Standard (AES) for securing the multiple EMR. In order to prevent issues like breaches and malware attacks on cloud, this innovative scheme helps in high level security to safeguard the
files or reports that are stored on the cloud.

References


Index Terms

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Keywords