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Abstract

Medical images are the key to healthcare industry. Medical images are acquired from various different modalities and they produce extremely large data files, and the modalities used to create them are constantly evolving. As the medical images need to be archived for future references. Archiving medical images locally is a huge challenge, which involves huge investment by the health care providers. A better solution would be moving the medical images to a cloud environment, which provides lot of flexibility in archiving as well as retrieving the images. A Database as a Service will be more advantageous in moving medical Images o the cloud. The NoSQL databases are robust in handling Data in the cloud. The suitability of NoSQL databases in storing the medical images is considered and it is found that the document databases to be suitable[3]. In this paper a performance based study is performed on two document databases in handling huge medical images. The various performance metrics analysed can be the foundation to fix up the right database in developing an framework in moving medical Images to the cloud .

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Index Terms

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Keywords

Big Data, Medical Images, Cloud Computing, NoSQL Databases, Document Databases.