The Prototype for Implementation of Security Issue in Big Data Application using Hadoop Server

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Abstract

A large amount of data can be referred as BigData. A vast size of data requires special kind of methodology to process and store. BigData research consortium team developed a distributed server known as Hadoop Server, to divide and partition large data into multiple pieces for fast and efficient processing. Hadoop is an open source solution developed by Google Corporation for large data processing. It supports variety of components and distributed file system. MapReduce, Pig, Hive are the components used for efficient development of software, together with Hadoop Distributed File System which is responsible for storing and processing large data with multiple nodes. The complete study observes that advance level of processing is required for large data scale, thereby to accomplish level of concert. In order to circumvent problem of privacy leakage and access maintenance, an elucidated security model has been developed for BigData application. This paper describes the security issue along with its solution. The proposed solution is implemented with Hadoop server in single node and multinode environment.
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Index Terms

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Keywords

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