

METHOD AND SYSTEM FOR QUERYING AND SEARCHING PROTECTED CLOUD DATA

Abstract

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This invention relates to a method and system for storing data on a cloud storage such that the data containing private and public information can be accessed by a third party without exposing private information in the data. The method of storing data in a cloud storage includes receiving a raw data, extracting textual
10 information, categorizing extracted textual information into public data and private data based on a policy file, generating a hash value for each private data, encrypting the raw data, generating a package including encrypted raw data, public data and hash value of private data, and transmitting the package to the cloud storage. The method of retrieving protected cloud data includes reading a query text string
15 received from a data consumer, categorising the query text string into public data and private data based on the policy file, generating a hash value data for the private data, generating a query string based on the hash value data for the private data and the public data, transmitting the query string to the cloud storage, and receiving the requested data.

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Figure 10 to be accompanied with the abstract