

(54) Title of the invention : CLOUD-BASED DECENTRALIZED ACCESS CONTROL WITH ANONYMOUS AUTHENTICATION

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(57) Abstract :

Because physical resources are shared by unreliable tenants in cloud computing, privacy, security, and access control issues arise. Before outsourcing the data, an appropriate encryption mechanism with key management should be used to enable secure storage, policy-based file access control, policy-based file assured destruction, and policy-based renewal of a file stored in a cloud environment. The Attribute Based Encryption (ABE) system is used in this work to provide access to the files using policy-based file access, which is a decentralized access control scheme for secure cloud storage. The suggested system guards against replay attacks and allows for the production, alterations, and reading of cloud-stored data. Moreover, the authentication and access control scheme is decentralized and robust, unlike other access control schemes designed for clouds which are centralized.

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