Secure Data Storage System and Data Leakage Detection

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Abstract: Given the size and rate of growth of these networks, data carried across them must be secure and confidential. A vital resource for data storage is cloud servers. Cloud servers therefore need to be secured and cannot be left vulnerable to the possibility of being used by hackers for theft or exposure. To ensure the security and privacy of the data, they need strategic plans. The proposed system employs three strategies to ensure data security. The plans call for data encryption, distribution over many clouds, and authentication of data sharing using just a secret key. The system is initially configured to provide data sharing over a secure channel using the Lightweight technique of encryption. Then, to prevent any loss, data is copied between clouds and scattered using the DROP technique throughout many clusters. Access to certain data segments can only be explicitly granted by a third private key to those who require the information. A trapdoor that detects any unethical requests for data sharing stops the requests and identifies the person in charge of any data leaks.

Keywords: Energy efficient algorithm, Manets, total transmission energy, maximum number of hop, network lifetime

REFERENCES