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CLOUD NETWORK MANAGEMENT SYSTEM

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ABSTRACT:

A compromised method by into the blockchain into the cloud storage accepted at provided in a private way, which cannot be seen as a true, is discovered. The cloud server and the data privacy of users are necessary to encrypt the data before outsourcing the cloud in order to realize secure keyword search over encrypted data. Additionally, it is believed that the cloud server would emphasize the value of keeping the data in a public chain right away.

We present a system that utilizes blockchain technology to offer safe distributed data storage together with keyword search functionality. We introduce a system that makes use of blockchain technology to offer secure distributed data storage with a keyword search service. The system enables the client to upload their content to cloud nodes and ensures data availability using cryptographically encrypted form distributions the data techniques. reputable keyword search method using encrypted data without the involvement of a third party.

Furthermore, even if the user or the cloud is evil, the use of blockchain technology and hash functions allows for the fair payment of search costs without the introduction of a third party. Our research of TKSE's security and effectiveness shows that it is both secure and effective, making it appropriate for cloud computing.

KEYWORDS:

Login, Registration, Create Secret Key, Authentication Scheme, Two-Side Verification.

I.INTRODUCTION:

The most flashy and exciting new computer platform that enables users to relocate the data in this paradigm is cloud computing. With the help of many platforms, this computing paradigm offers a variety of service models over the

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internet. Before hiring a candidate for a position as a systems administrator, security analyst, or cloud administrator, an IT business is required to do background checks on the applicant, conduct several interviews with them, contact references, and conduct security checks.

The organization frequently hires a service provider to handle the computing infrastructure, so it has no awareness of the personnel or access. (Cloud Service Provider) or how the CSP conducts its staff verification procedure. Due to the outsourcing of resources involved in cloud computing, there may be secondary providers selected by the CSP who is not known to the customer directly despite being paid on time. Despite the organizational measures used, a dependable insider might turn malicious. The CSP must get the credentials from the cloud user resources since these actions provide a serious threat of attack.

II. LITERATURE SURVEY

An important substitute for public-key encryption is identity-based encryption (IBE), which makes managing public keys and certificates at PKI simpler. The extra computation at the Private Key Generator (PKG) during user revocation, however, is one of the key efficiency downsides of IBE. Although effective revocation has been extensively investigated in the context of traditional PKI, IBE aims to reduce the load associated with certificate maintenance.

In order to address the crucial problem of identity revocation, we first include outsourced computation into IBE and then present a revocable IBE scheme for the server-assisted environment. Our method merely asks PKG and users to carry out a certain number of straightforward actions locally, offloading the majority of key generation-related tasks from the key-issuing and key-updating procedures to a Key Update Cloud Service Provider. We deploy a hybrid private key for each user, in which an AND gate is utilized to connect and bind the identity component and the time component, in order to accomplish this aim via a unique collusion-resistant method.

In addition, we provide a different architecture that can be demonstrated to be safe in the context of the recently established Refereed Delegation of Computation paradigm. Finally, we present a wide range of experimental findings that show how effective our suggested structure is. A username, email address, and password are often provided by registered users. Representative settings, such as the symmetric key setting The criteria for redeeming search fees should be established by the user and CSP, and it requires the MAC secret key Cryptography hash function server, therefore the notion cannot be immediately coupled with blockchain technology.

As a fundamental building block of information security, searchable encryption technologies have been developed in two and are used in many security applications that request access, such as digital signature schemes, the construction of MACs, and random number generation for ensuring data integrity and data origin authentication. Hashing techniques are utilized in a variety of applications, including databases, computer vision, and the storage of passwords. In this case, SHA is used.

III.MPLEMENTATION

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To protect communication while a third party is present. In the past, encryption was the main focus of cryptography. Information that is plain text is transformed into cipher text through the process of encryption. Decryption is the opposite. Information may be made secret from everyone but the intended receivers by using encryption. Encryption and decryption are created by a pair of algorithms known as ciphers. The algorithm and the key determine how a cipher operates. The trade secret shared among communicants is the "key."

- We utilized Windows 10 O.S., Java, NetBeans, and MySQL.
- One text document has been produced in the database, saved, and made available for browsing.
- During the process, we produce two-sided verification.
- Requires the simultaneous use of two authentication techniques to confirm that someone or anything.

IV.RESULT:

- Reduce data management expenses
- To safeguard data security and user privacy
- Code for message authentication
- Integrity defense

V.CONCLUSION:

Attains high-security levels to offer reliable computing and storage services. enables authentication, authorization data secrecy, and integrity of data. removes risks to internal and external security. In a cloud network environment, avoid both aggressive and passive threats. and reaches various security levels inside a cloud framework. is used to resolve the issue of verifying the keys of the person (let's say "person B") that someone else ("person A") is speaking to or attempting to communicate with. In other words, it is the process of verifying that the key belonging to "person A" and being held by "person B" is, in fact, theirs. addition. However, this is not viable for systems with a large user base or if the users do not know one another personally (like online purchasing). To address this issue, many symmetric keys and asymmetric public key techniques are available.

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