

ABSTRACT

BLOCKCHAIN MIDDLEWARE

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By reimagining the way traditional cybersecurity is configured for the data storage space, a blockchain based middleware is conceived and deployed in a network to enhance security. An algorithmic workflow is implemented by the blockchain middleware to encrypt any file, splitting the encrypted file; making a predetermined number of replicates to obtain fragments; and distributing the fragments among multiple storage nodes. The identity of the fragments is hashed and stored in a blockchain, making them immutable. By harnessing the power of blockchain, the blockchain middleware acts as an additional security protocol on top of the existing cybersecurity protocols by means of immutability, traceability, and improved security.

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15 (Fig. 5)