

This paper examines the Inter Planetary File System (IPFS), a decentralized file storage and distribution protocol that aims to supplant the traditional client-server model of the internet with a ...

In this paper, we propose and implement an efficient peer-to-peer data storage and sharing system to address the challenges faced by service providers. Our solution utilizes the modified EOSIO ...

Utilizing IPFS in this way ensures decentralized and secure storage of medical reports while maintaining user accessibility. By utilizing blockchain technology and cryptographic hash ...

In this paper, we propose a secure distributed cloud file storage and sharing system based on the Ethereum blockchain and Interplanetary File System (IPFS) to address these ...

We provided an overview of IPFS and its core features, presenting how its combination of multiple networking protocols and P2P concepts build a foundation for decentralised cloud storage.

In summary, the main contributions are listed as follows. (1) Decentralized and Verifiable Data Storage: We propose a blockchain-based secure and verifiable storage scheme for ...

Moreover, using transaction hash mapping for security, IPFS is a content-addressed block storage system with features like high throughput and concurrent access by network peers to ...

This paper explores the unique security advantages of IPFS, including its use of content-addressable storage for enhanced data integrity, cryptographic hash linking for immutability, ...

Cloud-based storage services have been the dominating outsourcing solution for both individuals and organizations to share data digitally. Despite the advantages, users must rely on storage services for ...

The InterPlanetary File System (IPFS) is a storage architecture which attempts to provide decentralised cloud storage by building on founding principles of P2P networking and content addressing.

This article examines whether cloud storage is on a trajectory to adopt IPFS or similar decentralized technologies, analyzing the benefits, challenges, and potential future of data storage.

This paper introduces FileTribe, a secure decentralized application for sharing files in closed groups. It employs IPFS, a distributed file system, as its data storage layer, avoiding the pitfalls of centralized ...

Abstract--The InterPlanetary File System (IPFS) is a novel decentralised storage architecture, which attempts



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to provide decentralised cloud storage by building on founding principles of P2P networking ...

IPFS????????,????????,?????hash????? ?????,????????? ??????????,????????????????,?? ...

Decentralized file storage has emerged as a transformative solution to address the challenges of centralized data storage, offering enhanced security, privacy, and resilience in the digital age. This ...

Thus, we provide an overview of the IPFS design and its core features, along with the opportunities that it opens, as well as the challenges that it faces because of its properties.

IPFS Cluster, operating as decentralized immutable storage, can be used to design a decentralized timestamping server to store electronic proof of the data. Our system uses IPFS Cluster ...

The InterPlanetary File System (IPFS) is a novel decentralised storage architecture, which attempts to provide decentralised cloud storage by building on founding principles of P2P ...



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