Blockchain storage

Distributed decentralized file storage has been around for quite some time. BitTorrent is a distributed file sharing (DFS) technology used for file sharing between nodes that adopts the concept that each node is both a consumer and a creator. In DFS, the data of the network is dispersed throughout all the nodes on the network. With traditional DFS, there are however some drawbacks; **1)** downloading of the data is unstable, **2)** no verification of the file publisher, and **3)** no incentive mechanisms so that the seeds are rewarded for their shared bandwidth (Huang, H. et al. 2020). To tackle these challenges, DFS projects have adopted blockchain technology to solve these liabilities, IPFS and SWARM are examples of this. IPFS (interplanetary file sharing) adopts the incentive and consensus mechanisms of Filecoin, as these two characteristics are native to blockchains. SWARM adopts most of its architecture from Ethereum and is, therefore, less advanced compared to IPFS, but also more dependable on its prosperity and security.

References:

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