Optimizing Resource Management in Cloud Computing through Blockchain-Enabled Cost Transparency

Authors : Raghava Satya SaiKrishna Dittakavi

Abstract : Cloud computing has revolutionized how businesses and individuals store, access, and process data, increasing efficiency and reducing infrastructure costs. However, the need for more transparency in cloud service billing often raises concerns about overcharging and hidden fees, hindering the realization of the full potential of cloud computing. This research paper explores how blockchain technology can be leveraged to introduce cost transparency and accountability in cloud computing services. We present a comprehensive analysis of blockchain-enabled solutions that enhance cost visibility, facilitate auditability, and promote trust in cloud service providers. Through this study, we aim to provide insights into the potential benefits and challenges of implementing blockchain in the cloud computing domain, leading to improved cost management and customer satisfaction.

Keywords : blockchain, cloud computing, cost transparency, blockchain technology
Conference Title : ICCO 2023 : International Conference on Cloud Computing and Optimization
Conference Location : Bangkok, Thailand
Conference Dates : November 27-28, 2023