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(57) Abstract :

The present invention relates to a cloud-based framework (100) for secure cross-platform file sharing (110). The framework comprises user devices (120), a cloud infrastructure (170), an encryption module (130), an authentication layer (140), an access control unit (150), and a distributed key management system (160). It ensures secure, interoperable file sharing across heterogeneous platforms, providing confidentiality, integrity, and accountability. Blockchain-based auditing (190) enhances compliance and transparency. The invention addresses interoperability gaps, mitigates security threats, and establishes a scalable foundation for secure digital collaboration.

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