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(57) Abstract :

The invention discloses a cloud-supported tool (100) for automated data encryption services that secures data across hybrid environments. The system comprises a data input interface (101), encryption engine (102), key management system (103), cloud storage interface (104), monitoring dashboard (105), and secure data output (106). It automates encryption, decryption, and key lifecycle management, ensuring data confidentiality and compliance with global standards. The modular design enables scalability, fault tolerance, and interoperability, making it adaptable to modern enterprise environments while providing centralized monitoring and anomaly detection.

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