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(57) Abstract :

The present invention relates to a cloud-supported framework for automated network security auditing comprising a vulnerability detection module (101), a compliance validation engine (102), a log collection and analysis unit (103), a reporting dashboard (104), and a cloud storage system (105). The framework automates vulnerability detection, compliance validation, log analysis, and reporting within a scalable, cloud-hosted environment. By leveraging AI/ML techniques and secure cloud storage, the invention enhances accuracy, scalability, and efficiency of network security audits, ensuring proactive threat detection and regulatory compliance.

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