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(57) Abstract :

The present invention relates to a cloud-supported platform for automated data center monitoring. The system includes IoT sensors (101), gateway devices (102), cloud integration layer (103), machine learning engine (105), resource optimization module (106), alert system (107), visualization dashboard (108), and maintenance scheduling unit (110). It enables real-time anomaly detection, predictive maintenance, energy optimization, and secure monitoring. The feedback loop (111) continuously improves predictive accuracy. The invention minimizes downtime, reduces energy costs, and enhances overall reliability of data center operations.

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