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(57) Abstract :
The present invention discloses an intrusion detection system (100) and method (200) for Data Center Environments, employing Machine Learning and Behavioral Analysis Techniques. By amalgamating advanced machine learning algorithms with behavioral analysis methods, the IDS diligently monitors network traffic, user behavior, and system logs within data center environments, ensuring prompt detection of potential security threats. Incorporating data collection, preprocessing, machine learning, behavioral analysis, real-time alert generation, continuous learning, and integration with existing security infrastructure, the system comprehensively safeguards against unauthorized access, security breaches, and anomalous activities. Through its adept fusion of innovative technologies, the IDS emerges as a robust defense mechanism, contributing to the protection and integrity of data center assets.

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