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(57) Abstract :

The present invention discloses a system (100) and method (200) for generating tailored security policies for virtualization, bare-metal server, and cloud computing environments. The system (100) including a processor (102) configured to receive input data regarding hardware, operating system, applications, and user input to create customized security policies considering the specific security risks of each environment. Multiple entities can further customize these policies through a user interface using their associated computing devices. Continuous monitoring of the environment ensures prompt detection of potential security breaches, analyzing data from various sources, such as logs, network traffic, and system performance. Upon identifying suspicious activities, the system generates alert signals transmitted to the relevant computing devices. By integrating machine learning algorithms, the system continuously improves security policies based on observed environment behavior and evolving threats.

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