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(57) Abstract :

The present disclosure relates to a cloud security system (100) and method (300) to secure and prevent unauthorized access to a cloud. The system creates a set of security rules based on a predetermined criteria to restrict access to one or more cloud resources and monitors network traffic within the environment of one or more cloud resources in real-time. Additionally, the system analyzes a set of network data and identify potential threats within the cloud environment using one or more intrusion detection and prevention techniques, detects and mitigates Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks based on monitoring of the network traffic and inspect the set of network data at the application layer to identify and prevent malware and phishing attacks. The processor (102) sends an alert in real-time to one or more administrators (114) on detection of security threats within the cloud environment.

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