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Abstract:

The present invention provides a cloud-based network security solution that integrates advanced threat intelligence and machine learning to enhance cybersecurity a distributed networks. The solution features a central cloud-based security platform that aggregates and processes threat data from diverse sources through a threat integration layer. Distributed network agents monitor and collect data from endpoints, which is analyzed by a machine learning engine to detect and predict potentia automated incident response module executes predefined actions to mitigate threats, while a reporting and feedback mechanism offers insights for continuous impr This innovative approach delivers real-time, scalable protection against evolving cyber threats, leveraging the flexibility and scalability of cloud computing to maintain network security. Accompanied Drawing [FIGS. 1-2]

Complete Specification

Description:[001] The present invention relates to the field of network security, specifically focusing on cloud-based solutions that enhance the protection of distribu networks through advanced threat intelligence. As organizations increasingly adopt cloud computing, the need for robust security measures that can effectively saf data and infrastructure from sophisticated cyber threats has become paramount. This invention addresses the challenges associated with securing complex, multi-l networks by leveraging the scalability and flexibility of cloud computing combined with state-of-the-art threat intelligence and machine learning techniques.

[002] In particular, the invention provides a comprehensive security framework that operates within a cloud environment to continuously monitor, detect, and resp potential threats across a distributed network. By integrating real-time threat intelligence from multiple sources, the system is capable of identifying both known an emerging threats, allowing for rapid and automated responses to mitigate potential damage. This innovative approach not only enhances the detection and preven cyberattacks but also offers a scalable solution that can be easily integrated with existing IT infrastructure, making it highly adaptable to the evolving needs of mode enterprises.

BACKGROUND OF THE INVENTION

[003] As organizations increasingly migrate to cloud-based environments and adopt distributed network architectures, they face mounting challenges in securing th digital assets against sophisticated cyber threats. The traditional approaches to network security, which often rely on static, perimeter-based defenses and isolated solutions, are proving inadequate in the face of modern threats that are more dynamic, complex, and widespread. This inadequacy is further compounded by the g volume of data and the need for real-time analysis to effectively counteract emerging threats.

[004] Network security has historically been approached with a focus on endpoint protection and perimeter defenses, such as firewalls and intrusion detection syst

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