

(54) Title of the invention : DYNAMIC THREAT DETECTION SYSTEM

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(57) Abstract :
The present disclosure generally relates to a field of cybersecurity. More particularly, the present disclosure provides a dynamic threat detection system (100). The dynamic threat detection system (100) incorporates a comprehensive vulnerability assessment and penetration testing (VAPT) scanner to enhance cybersecurity measures and protect against potential vulnerabilities in computer networks, systems, and applications. The system (100) employs comprehensive vulnerability assessment techniques to scan and analyze various components of the system, including infrastructure, applications, and configurations. It identifies potential weaknesses that could be exploited by attackers, providing a comprehensive overview of the organization's security landscape. In addition to vulnerability assessment, the system (100) conducts simulated attack scenarios through penetration testing. By emulating real-world attacks, it evaluates the effectiveness of existing security controls and identifies any gaps in the defense mechanisms. The system (100) allows organizations to understand their vulnerabilities from an attacker's perspective and take proactive measures to strengthen their security defenses.

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