Research and deploy an intrusion detection system based on Snort.

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Abstract: In the context of increasingly prevalent cybersecurity threats, this paper aims to address real-world security challenges by researching and implementing an intrusion detection system based on Snort. The objective of this thesis is to build a system that effectively monitors network traffic, identifies potential attacks, and issues timely alerts. Through a research methodology combining theory and practice, we first delve into the working principles of Snort and its application value in the field of cybersecurity, and on this basis, design and implement the system. The expected outcomes not only enhance the defense capabilities against network threats but also provide significant reference value in practical deployment.

Keywords: Intrusion detection, Snort, network security, practical research, security threats