Building an intrusion detection and prevention system using PFSense combined with Suricata.

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Abstract: In the context of increasingly frequent cyber attacks, protecting network infrastructure has become more urgent than ever. This topic focuses on building an intrusion detection and prevention system by combining PFSense with Suricata. The main objective of the topic is to address issues of efficiency and reliability in monitoring and responding to cyber attacks. The research methodology applied includes both theoretical and experimental approaches to ensure the system can effectively handle various types of attacks. The expected outcome of the topic is a flexible and efficient solution for network security protection, while also contributing to the development of the cybersecurity field.

Keywords: PFSense, Suricata, security system, intrusion detection, network security